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UNITED STATES PATENT OFFICE

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ERRATA.

1,282,510, page 52, in heading, assignment, after the word assignor insert the words *of one-half.*

1,282,542, page 59, first claim, line 5, for the word "blending" read *bending.*

1,282,841, page 121, first claim, line 3, for the word "directly" read *entirely.*

1,284,285, page 272, second claim, line 7, for the word "rock" read *rack.*

1,285,808, page 733, in heading, assignment, name of assignee, for "The Rubberoid Co." read *The Ruberoid Co.*

145,247, (Registered Trade-Marks,) page 820, strike out the disclaimer paragraph.

Vol. 268.

PATENT OFFICE

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TO THE

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JULY, 1921.

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*) of the Supreme Court of the District of Columbia by the letter (ª); and of the Supreme Court of the United States by two stars (**).]

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DIGEST

OF THE

DECISIONS OF THE COMMISSIONER OF PATENTS AND OF THE UNITED STATES COURTS.

JULY, 1921.

[Decisions of the Court of Appeals of the District of Columbia are indicated by a star (*) of the Supreme Court of the District of Columbia by the letter (ª); and of the Supreme Court of the United States by two stars (**).]

AFFIDAVITS.

See Reduction to Practice.

AMENDMENT TO PRELIMINARY STATEMENT.

INTERFERENCE.

Amendments moving back the dates alleged in preliminary statements, after an adversary's dates have been disclosed, should not be allowed unless the interests of justice plainly demand it.

[* Earles and Lowe *v.* Gomber, 207.

ANALOGOUS USE.

See Invention, 2.

APPEAL TO THE COURT OF APPEALS OF THE DISTRICT OF COLUMBIA.

See Priority of Invention; Suits in Equity Under Section 4915, 2.

BROAD AND NARROW CLAIMS.

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CHANGE IN SIZE.

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CLAIMS.

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COMMISSIONER OF PATENTS.

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COMMON ASSIGNEE.

See Estoppel.

CONSTRUCTION OF CLAIMS.

See Particular Patents.

CONSTRUCTION OF SPECIFICATIONS AND PATENTS.

LIMITATIONS—INFRINGEMENT.

The Weber patent, No. 743,206, for improvements in incandescent-electric-lamp sockets, claim 4, the words "telescopically received" and "telescopically applied," in view of the prior art, the file wrapper and a second patent to the same patentee and others, No. 916,812, *Held* restricted to a direct longitudinal movement or thrust of the sleeve into the cap, which is not infringed by the device or Patent No. 927,344, which locks by a rotary movement.

[** Weber Electric Company *v.* E. H. Freeman Electric Company, 631.

CONSTRUCTION OF STATUTES.

See Suits in Equity Under Section 4915, 1, 3.

COPYING CLAIMS.

See Estoppel; Interference, 1, 2.

DATE OF FILING APPLICATIONS.

See Interference, 4.

DEDICATION TO THE PUBLIC.

See Delay in Filing Applications for Reissue, 2.

DELAY IN FILING APPLICATIONS FOR REISSUE.

1. INTERVENING RIGHTS.

Presumptive intervening rights arising from a delay of more than two years in filing an application for reissue with broadened claims is a question not available in interference proceedings.

[* Earles and Lowe *v.* Gomber, 207.

2. ESTOPPEL.

Delay in filing a reissue application for more than two years after knowledge by applicant that his rivals in interference proceedings had placed the device on the market does not operate as an estoppel under the rule announced in *Wintroath* v. *Chapman* (C. D., 1920, 465; 272 O. G., 913; 252 U. S., 126) where he himself had placed the device on the market before the filing date of the opposing applicants or their invasion of the market, the reissue applicant being the first inventor and the first to place the device on the market. Long delay might bar the reissue application on the ground of dedication to public use; but the question could not be raised in an interference proceeding.

[* Id.

DELAY IN MAKING CLAIMS.

See Estoppel; Interference, 2.

DILIGENCE.

INTERFERENCE—INVENTION NOT IN ISSUE.

Where the issue of an interference related to an invention for use in a semi-automatic as well as in a full automatic telephone system, diligence by the junior party from January, 1905, to September, 1905, on a device to be used in a full automatic system is insufficient to overcome the senior party's constructive reduction to practice on August 31, 1905, as diligence was not exercised on the invention in issue, but on another invention.

[* Clement *v.* Roberts, 829.

DISCLAIMERS.

See Estoppel.

DISCLOSURE OF INVENTION.

See Interference, 4; Reduction to Practice.

PROOF—SKETCH.

A sketch relied upon as proof of disclosure of the invention of a side bearing for railway-cars considered and *Held* to show the invention.

[* Jenks and Perry *v.* Geiger, 208.

DIVISIONAL APPLICATIONS.

See Estoppel.

ERROR.

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ESTOPPEL.

See Delay in Filing Applications for Reissue, 2; Interference, 1, 2.

COPYING CLAIMS OF A PATENT DISCLAIMED IN A PRIOR PATENT.

Where in an interference between an application of H., filed in 1903, and a patent of R., granted in 1900, both owned by a common assignee, priority was awarded to H. and a patent was issued to him in 1912, including the interfering claims, after which the counts of that interference were disclaimed in the patent to R., a third party who filed an application in 1911 as a division of one filed in 1904 is estopped from making in 1913, in the divisional application, the claims disclaimed by R., the claims having been copied more than four years after the grant of R.'s patent, although within two years after the grant of H.'s patent.

[* De Ferranti *v.* Harmatta, 205.

FORMER DECISIONS CITED.

See Delay in Filing Applications for Reissue, 2; Estoppel, 2; Interference, 2; Invention, 2; Suits in Equity Under Section 4915, 1.

GOODS OF THE SAME DESCRIPTIVE PROPERTIES.

See Trade-Marks, 2, 3.

IDENTITY OF TRADE-MARKS.

See Trade-Marks, 2, 3, 4, 5.

INFRINGEMENT.

See Construction of Specifications and Patents; Particular Patents.

INTERFERENCE.

See Amendment to Preliminary Statement; Delay in Filing Application for Reissue; Diligence; Disclosure of Invention; Estoppel.

1. ESTOPPEL BY DELAY—FOUNDATION OF RULE.

The limitation of two years within which claims may be taken from a patent arises from the application of a sound principle of public policy for the prevention of the undue extension of monopoly by procrastination in the assertion of adverse rights against one already in possession. This situation is not different by analogy from a reissue case, where the public is in adverse possession. In both instances the applicant has stood by and permitted others to assert rights which he now negligently seeks to monopolize for himself.

[* De Ferranti *v.* Harmatta, 205.

2. SAME—COPYING CLAIMS.

An applicant is not estopped to contest an interference with a patentee because he delayed copying the claims of the patent almost twenty months after the patent issued and fifteen months after he had notice of the patent, as he was well within the two-year period fixed by the Supreme Court in *Chapman* v. *Wintroath*, (C. D., 1920, 465; 272 O. G., 913; 252 U. S., 126; 272 O. G., 913.)

[* Ransdall *v.* Jahns, 206.

3. RIGHT TO MAKE CLAIMS.

Although the device of one party to an interference may be less efficient than that of his rival, so long as it comes within the issue and is operative the objection is not one upon which it may properly be held that he is not entitled to make the claims.

[* Ransdall *v.* Jahns, 206.

4. JUDGMENT ON RECORD.

The junior parties having failed to overcome in their preliminary statements the filing date of the senior party and the Office tribunals having held that the senior party's disclosure is operative, the judgment of priority was correct and is affirmed.

[* Wright *v.* Halle *et al.* Wahl *v.* Barrett *et al.* Barrett *v.* Wahl *et al.*, 207.

INTERVENING RIGHTS.

See Delay in Filing Applications for Reissue, 1.

INVENTION.

See Diligence.

1. CHANGE IN SIZE.

It being old to mix comminuted fuel with air by means of currents of air directed transversely to the path of travel of the fuel, there is no invention in making the mixing-chamber of greater length.

[* *In re* Pruden, 206.

2. DOUBLE OR ANALOGOUS USE.

It involves no invention to apply an old process for coating metal, paper, glass, fabric or the like, consisting in depositing the coating material in the form of a spray by means of a blast of air, to the coating of shoes with a thin film of metal. (*Brown* v. *Piper*, 91 U. S., 37.)

[* *In re* Braselton, 431.

JUDGMENT ON THE RECORD.

See Interference, 4.

JUDICIAL NOTICE.

RECORDS OF PATENT OFFICE.

The Supreme Court of the District of Columbia may take judicial notice of the records of the U. S. Patent Office disclosing the date when the Commissioner of Patents, sued in his official capacity, ceased to be such official.

[* Mattullath Aeroplane Company *v.* Newton, Commissioner of Patents, 831.

LIMIT OF TIME.

See Estoppel; Interference, 1, 2; Suits in Equity under Section 4915, 1, 3.

LIMITATION OF CLAIMS.

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OPERATIVENESS.

See Interference, 3, 4; Priority of Invention; Reduction to Practice.

OPPOSITION TO REGISTRATION OF TRADE-MARKS.

See Trade-Marks, 1.

PARTICULAR PATENTS.

See Construction of Specifications and Patents.

WEBER — No. 743,206 — INCANDESCENT - ELECTRIC - LAMP SOCKETS—INFRINGEMENT—IDENTITY.

The Weber patent, No. 743,206, for improvements in incandescent-electric-lamp sockets, claim 4, involving a sleeve and cap having provisions for locking against longitudinal movement by a snap action, but which lacks any provision for preventing disengagement by a rotative movement, *Held* not infringed by a device constructed in accordance with Patent No. 927,344, having two similar parts engaged, but not locked, by a longitudinal thrust, the locking being effected by a rotative movement.

[** Weber Electric Company *v.* E. H. Freeman Electric Company, 631.

PATENTABILITY.

See Invention, 1.

PATENTEE AND APPLICANT.

See Estoppel; Interference, 2.

PETITION TO REOPEN DECREE.

See Suits in Equity Under Section 4915, 2, 3.

PRELIMINARY STATEMENT.

See Amendment to Preliminary Statement; Interference, 4.

PRIORITY OF ADOPTION AND USE.

See Trade-Marks, 1, 2, 3.

PRIORITY OF INVENTION.

See Estoppel; Interference, 1, 4; Reduction to Practice.

DECISIONS OF PATENT OFFICE TRIBUNALS NOT DISTURBED.

Where the issue covers technical mechanism and the tribunals of the Patent Office, on a motion to dissolve, refused to rule that the senior party's device was inoperative and refused to permit the taking of testimony to show inoperativeness, the court, on appeal on priority, will not disturb that ruling, no error being clearly apparent.

[* Wright *v.* Halle *et al.* Wahl *v.* Barrett *et al.* Barrett *v.* Wahl *et al.*, 207.

PROCESS.

See Invention, 2.

PROOF.

See Disclosure of Invention.

PUBLIC POLICY.

See Interference, 1.

RECORDS OF THE PATENT OFFICE.

See Judicial Notice.

REDUCTION TO PRACTICE.

See Diligence.

AFFIDAVITS FILED TO SHOW INOPERATIVENESS OF DEVICE.

Affidavits filed to show that a machine alleged to have been constructed in accordance with the senior party's disclosure, tested, and found inoperative *Held* insufficient to overcome the effect of his first filing as a prior constructive reduction to practice, the test having been made *ex parte* and the structural defects pointed out being subject to mechanical correction.

[* Wright *v.* Halle *et al.* Wahl *v.* Barrett *et al.* Barrett *v.* Wahl *et al.*, 207.

REGISTRATION OF TRADE-MARKS.

See Trade-Marks.

REISSUES.

See Delay in Filing Applications for Reissue; Interference, 1.

RIGHT TO MAKE CLAIMS.

See Interference, 3.

SIMILARITY OF TRADE-MARKS.

See Trade-Marks, 1, 2, 3, 4, 5.

STATE OF THE ART.

See Construction of Specifications and Patents; Particular Patents.

SUITS IN EQUITY UNDER SECTION 4915.

1. TIME FOR FILING.

Under section 4894, Revised Statutes, one year from the date of a decision by the Court of Appeals of the District of Columbia is allowed in which to bring a suit in equity under section 4915, Revised Statutes, (*Gandy* v. *Marble*, C. D., 1887, 413; 39 O. G., 1423; 122 U. S., 432;) but this time runs from the date of the decision of the court affirming the decision of the Commissioner of Patents and is not suspended or extended by a motion for rehearing, since no provision for rehearing in such cases is found in the rules of the Patent Office, the court of appeals, or in any statute.

[* Mattullath Aeroplane Company *v.* Newton, Commissioner of Patents, 830.

2. REINSTATEMENT OF SUIT—PETITION FILED TOO LATE.

Where a suit in equity under section 4915, Revised Statutes, was dismissed because brought more than a year after the date of the decision by the Court of Appeals of the District of Columbia, a petition to reopen the final decree dismissing such suit and reinstate the suit filed after the time when an appeal could have been taken and long after the end of the term of the court at which the final decree was entered, denied.

[* Mattullath Aeroplane Company *v.* Newton, Commissioner of Patents, 831.

3. AGAINST U. S. OFFICIAL—ABATEMENT.

Where a suit in equity under section 4915, Revised Statutes, against the Commissioner of Patents was dismissed because brought more than a year after the date of the decision of the Court of Apeals of the District of Columbia, petition to reopen the final decree and reinstate the suit denied where it appeared that defendant had ceased to be an official of the Patent Office and his successor was not substituted within a year thereafter, as required by the act of Congress of February 9, 1899. (30 Stat. L., 822.)

[* Id.

SUPREME COURT OF THE DISTRICT OF COLUMBIA.

See Judicial Notice.

TERMINOLOGY.

See Construction of Specifications and Patents.

TEST.

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TESTIMONY.

See Priority of Invention.

TRADE-MARKS.

1. SIMILARITY—PORTRAITS WITH THE WORD "HAY-PO"—SIMILAR PORTRAITS WITH "PORO."

Opposition to registration of a mark for hair-dressing, comprising portraits representing "before" and "after" use, with the word "Hay-Po" above, all inclosed within a circle, sustained in view of the prior use by opposer of substantially the same portraits with the word "Poro" above, all inclosed within a circle.

[* Hay *v.* Malone, doing business under the style and name of Poro College, 431.

2. SAME—"CHERO-COLA" AND "COCA-COLA."

The words "Chero-Cola" held not entitled to registration in view of the prior adoption and use of the words "Coca-Cola" for goods of the same descriptive properties.

[* The Coca-Cola Co. *v.* Chero-Cola Co., 432.

3. SAME—MERE ARGUABLE DIFFERENCES.
Mere arguable differences between marks are not sufficient to warrant registration of the last to adopt and use. [* Id.

4. SAME—TEST OF IDENTITY.
That there would be no difficulty in apprehending the difference between two marks when they are placed together, or when attention is in some other way directed to them, is not a proper test of identity, as ordinarily a prospective purchaser does not carry more than a faint impression of the mark he is looking for, is governed by a general glance, and acts quickly. [* Id.

5. SAME—"MAIL ORDER"—"MAIL" AND REPRESENTATION OF A MAIL-BOX WITH THE WORD "MAIL."
The words "Mail Order," for paper, held deceptively similar to the word "Mail" printed in a special manner and to a mark consisting of the representation of a mail-box with the word "Mail" thereon, the word "Mail" being the principal element of each mark. [* In re Taylor-Logan Co., Papermakers, 433.

TRIBUNALS OF THE PATENT OFFICE.

See Interference, 4; Priority of Invention.

Patents Nos. 1,383,274 to 1,384,034.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

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Issue of July 5, 1921.

Patents	761—No.	1,383,274 to No.	1,384,034, inclusive.
Designs	13—No.	88,284 to No.	88,296, inclusive.
Trade-Marks	210—No.	144,333 to No.	144,542, inclusive.
Labels	62—No.	23,052 to No.	23,113, inclusive.
Prints	21—No.	5,654 to No.	5,674, inclusive.
Reissues	10—No.	15,137 to No.	15,146, inclusive.
Total	1077		

Adhesion of Bulgaria to the International Convention of Paris for the Protection of Industrial Property.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 30, 1921.

The following note addressed to the Secretary of State by the Minister of Switzerland is published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

LEGATION OF SWITZERLAND,
Washington, D. C., June 4, 1921.

Mr. Secretary of State:

By direction of my Government, I have the honor to inform your excellency that, by a note dated April 30, 1921, the Government of Bulgaria gave notice to the Swiss Federal Council of its decision to adhere to the International Convention of Paris, of March 20, 1883, for the Protection of Industrial Property, revised at Brussels, December 14, 1900, and at Washington, June 2, 1911, with its final protocol (see article 18 of the Convention.)

The above-named Government adds that, with regard to its quota in the expenses of the International Bureau, Bulgaria wishes to be placed in the fifth class.

In accordance with article 16, paragraph 3, of the revised Convention of Union of Paris, the aforesaid adhesion will take effect one month after the sending of the notification by the Swiss Government to the other countries of the Union, that is to say, on and after June 13, 1921.

I beg your excellency kindly to take note of this adhesion and take this opportunity to renew to you, Mr. Secretary of State, etc.

MARC PETER,
Minister of Switzerland.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 27, 1921.

Fred Hollender & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Hinckley & Schmitt, 420 West Ontario street, Chicago, Ill., for registration of a trade-mark and trade-mark registered August 29, 1905, No. 45,804, to Fred Hollender & Co., 115–119 Elm street, New York, N. Y., and a notice of such declaration sent by registered mail to said Fred Hollender & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Fred Hollender & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 6, 1921.

Amédée Castaing, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Spiros C. Markatos, 456 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered January 29, 1907, No. 60,225, to Amédée Castaing, 518 West Thirtieth street, New York, N. Y., and a notice of such declaration sent by registered mail to said Amédée Castaing at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Amédée Castaing, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Amendments.

In order to insure the prompt delivery of amendments to the proper examining division, applicants are requested in their actions on applications to give the division number and the room number appearing on the last Office letter, as well as the date of such letter.

4701

APPLICATIONS UNDER EXAMINATION.

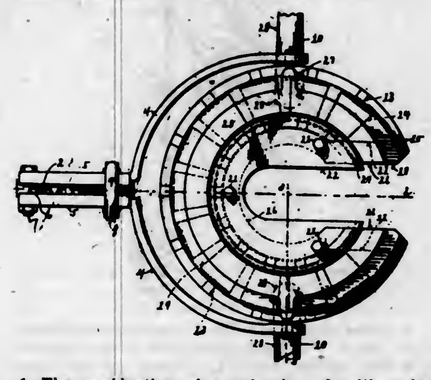
Condition at Close of Business June 25, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Feb. 7	Feb. 26	677
126	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Oct. 7	Dec. 6	1,500
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 13	Oct. 8	746
234	4. Conveyers; Conveyors, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 9	Mar. 16	1,486
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 21	Nov. 22	711
218	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 24	Apr. 7	860
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 21	Mar. 11	1,457
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Mar. 24	May 8	623
231	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 13	Apr. 20	774
235	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Jan. 10	Apr. 21	1,146
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Mar. 18	Mar. 29	402
222	12. Machine Elements	Nov. 9	Apr. 2	1,065
220	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Sept. 3	Mar. 22	1,577
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Sept. 14	Apr. 25	897
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 17	Dec. 2	1,504
111	16. Radiant Energy; Telegraphy; Telephony	Aug. 26	Dec. 9	1,458
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec. 16	Mar. 11	819
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 2	Dec. 15	1,531
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 4	Jan. 3	860
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 15	Feb. 12	1,140
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 29	Apr. 6	503
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Mar. 21	Apr. 29	400
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Nov. 6	Apr. 12	714
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Dec. 17	Mar. 30	880
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	Apr. 29	May 13	252
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Dec. 8	Jan. 19	761
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Feb. 3	Apr. 1	1,084
225	28. Internal-Combustion Engines	Dec. 1	Feb. 25	1,202
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Dec. 1	Apr. 13	697
153	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Feb. 2	May 5	1,020
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 10	Oct. 20	1,989
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 13	Mar. 24	1,097
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 5	Mar. 7	752
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	May 2	May 19	292
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicator Telltale	May 13	May 23	490
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Jan. 21	Jan. 22	1,510
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 21	Dec. 27	1,906
378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Feb. 3	Feb. 7	1,030
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Aug. 14	Sept. 17	1,671
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 13	Jan. 21	1,929
135	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Dec. 8	Mar. 16	835
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Oct. 7	Oct. 27	2,008
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Sept. 11	Dec. 17	1,295
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 20	Apr. 18	537
279	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Dec. 2	Apr. 4	1,018
322	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 16	Feb. 25	853
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Nov. 5	Feb. 1	1,016
	Oldest new case, July 17; oldest amended, Sept. 17.			
	Total number of applications awaiting action			49,064
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 21	Apr. 11	4,735
	Designs	Oct. 11	Dec. 10	2,193
	Labels and Prints	Mar. 29	June 10	500

PATENTS

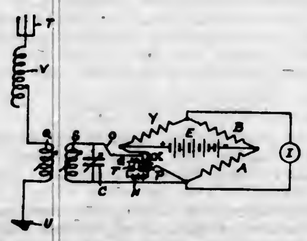
GRANTED JULY 5, 1921.

1,383,274. SAFETY ROLLER-BEARING SWIVEL-WRENCH. BENJAMIN H. ARENATHY, Tulsa, Okla., assignor of one-third to Walter S. Lee and one-third to Ralph Maines, Tulsa, Okla. Filed Apr. 15, 1920. Serial No. 374,216. 3 Claims. (Cl. 81—119.)



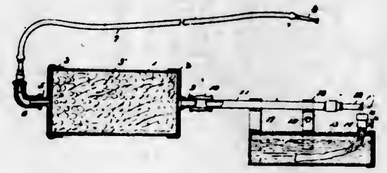
1. The combination of a yoke formed with a lever handle and means for suspending same, a head pivotally mounted in the yoke and formed with an annular channel opening upwardly, pins mounted in said head and spanning the channel, tapered bearing rollers mounted on said pins, a jaw member formed with a vertical central opening and a gap thereto and also formed with an annular channel opening outwardly, said head revolubly fitting within said channel of said jaw member, the under surface of the upper wall of said last named channel being tapered and being supported on said rollers, a clamping plate mounted on the top of said jaw member, cap-screws securing said plate to said jaw member, said plate being formed with a slot for receiving and supporting a drill bit and being also formed with an exterior annular rabbet, and a safety ring having an annular lip engaging in said rabbet and rotatably mounted on said jaw member and also formed with handles and with a gap, said head being also formed with a gap.

1,383,275. AMPLIFIER. SAMUEL E. ADAIR, New York, N. Y., assignor to International Radio Telegraph Company, a Corporation of Delaware. Filed Aug. 14, 1919. Serial No. 317,394. 3 Claims. (Cl. 179—171.)



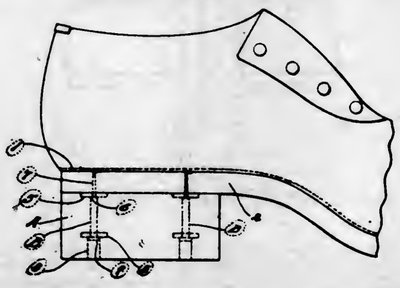
1. Apparatus for amplifying electrical currents, comprising a Wheatstone bridge having a tri-electrode device connected by its plate and filament electrodes in one of the branches of said bridge, with the circuit carrying the current to be amplified connected between the grid and filament, and an indicator connected across said bridge.

1,383,276. BLOWTORCH. JAMES A. ANDERSON, Chickasha, Okla. Filed Oct. 29, 1920. Serial No. 420,550. 1 Claim. (Cl. 158—27.5.)



A blow torch comprising a container containing absorbent material impregnated with liquid fuel, a tube communicating with one end of the container to supply air under pressure through the absorbent material, a rigid tubular nipple extending from the opposite end of the container, a coupling connected to the nipple, a stiff tubular element extending from and connected to the flexible coupling, a burner at the end of the stiff tubular member, a liquid container provided at one end with a burner disposed adjacent to and spaced from the burner on the stiff tubular element, a pair of connectors on the liquid container, each connector having a bearing through which the stiff tubular member passes to form a support for said member, one of said members having a screw and coöperating nut whereby to removably clamp the connector to the tubular member to provide for the adjustment of the liquid container lengthwise said member and in parallelism therewith to thereby set the burners in relative adjusted positions.

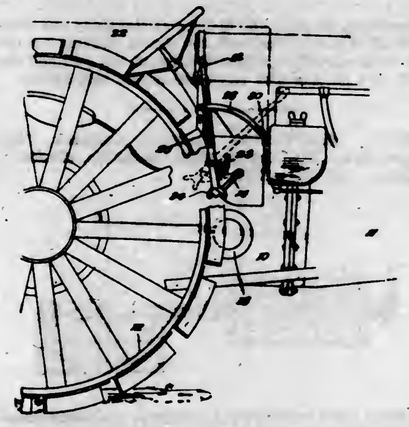
1,383,277. ATTACHING DEVICE FOR SHOE-HEELS. JOHN ANDERSON, St. Louis, Mo. Filed Mar. 14, 1921. Serial No. 452,011. 5 Claims. (Cl. 36—59.)



1. A shoe-heel having a nail-receiving opening enlarged at its lower end to form a pocket for the head of a nail, said heel being provided with a lower abutment at the top of said pocket and an upper abutment at the upper end of

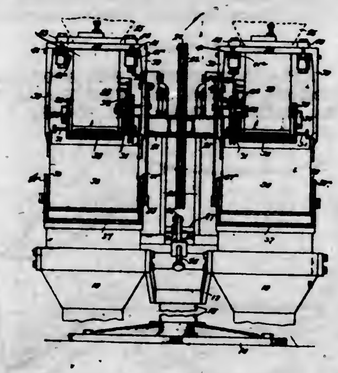
said opening, and a nail having a head engaging said lower abutment, said nail also having a shoulder engaging said upper abutment and a reduced extension projecting through said upper abutment.

1,383,278. CLUTCH-LOCK. NILS ANDERSON, Yutan, Nebr. Filed Apr. 17, 1920. Serial No. 374,549. 3 Claims. (Cl. 74—81.)



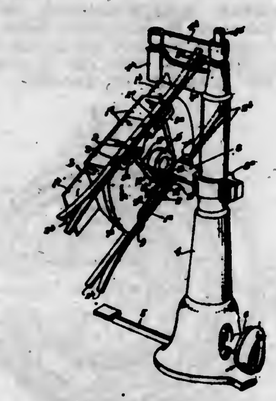
1. The combination with a tractor having a movable clutch pedal provided with a laterally projecting foot-engaging portion, of a lever having its lower portion forked for engagement with an end of the laterally projecting portion of said clutch pedal to hold the clutch released and permit engagement of the pedal by the operator's foot at the side of the lever to permit the clutch to be engaged, and means pivotally supporting the said lever intermediate its ends.

1,383,279. AUTOMATIC WEIGHING-MACHINE. GUSTAVE ALMBERG, Chicago, Ill. Filed Dec. 15, 1919. Serial No. 344,792. 12 Claims. (Cl. 249—46.)



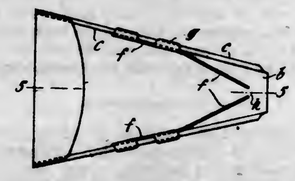
1. In a weighing machine, a material feed trunk, a pair of pivoted gates controlling the trunk outlet, a slidable member supported by the sides of the trunk and having cam recesses, outstanding pins on the gates seating in the recesses, said recesses being shaped to open the gates when the slidable member moves in one direction and to close the gates when moved in another direction, means for operating the slidable member, a latch mechanism for holding the gates open, a weighing receptacle into which the trunk discharges, and a pivoted scale beam carrying said receptacle, said scale beam having means for controlling the latch mechanism.

1,383,280. APPARATUS FOR MAKING BASKETS. WILLIAM E. ASPLIN and HUGO WISANDER, West Park, Ohio; said Wisander assignor to said Asplin. Filed Dec. 26, 1919. Serial No. 347,507. 10 Claims. (Cl. 147—48.)



1. A basket making machine, comprising a support, a stapling device, a movable basket form in operative relation to said stapling device, and having end and lateral surfaces exposed to receive and form the sections of a basket mat when folded thereon, means for clamping said basket mat to the end and lateral surfaces of said form when rotated to predetermined positions relative to said stapling device, and means for releasing said clamping means and basket at a predetermined position of rotation of said form.

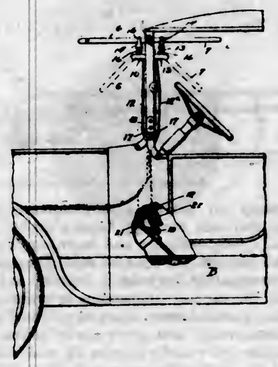
1,383,281. DEVICE FOR DISTRIBUTING SEED AND THE LIKE. JOHN JAMES BAILEY, Harpenden, England. Filed Dec. 15, 1919. Serial No. 344,987. 3 Claims. (Cl. 275—1.)



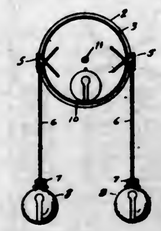
3. In a distributer device, the combination of a sheet-metal body, turned-down side walls converging toward the mouth of the device, flexible baffles extending from opposite sides of the device, and clips on said baffles for adjustably securing them to the said sides, substantially as described.

1,383,282. AUXILIARY SHIELD FOR MOTOR-VEHICLES. DOSABHOY E. BHARUCHA, Bombay, India. Filed June 11, 1920. Serial No. 388,181. 2 Claims. (Cl. 296—95.)

1. The combination with a supporting frame having a windshield mounted therein, of a protector for use in connection therewith comprising a pair of hingedly connected members mounted over said shield one to open downwardly on one side of said shield, and the other on the other side thereof, bars arranged transversely of said frame to move vertically, members carried by said bars and slidably engaged with said hinged members whereby the raising and lowering of said bars operates to open and close said hinged members, springs for normally holding said bars elevated, and means under the control of the driver for lowering said bars to bring the protector into operative position.



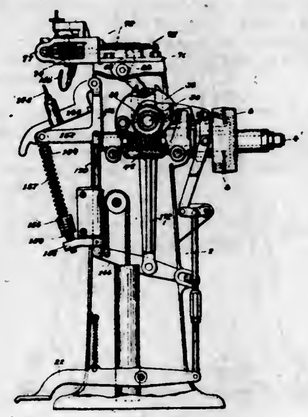
1,383,283. WHIRLING-BELL TOY. WILLIAM F. BLAKE, Toledo, Ohio. Filed Feb. 18, 1919. Serial No. 277,832. 1 Claim. (Cl. 46—14.)



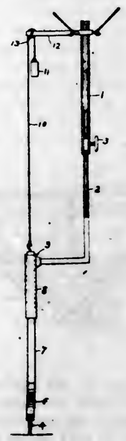
In a whirling bell toy, the combination of a drum rotatably mounted on a pivot on a handle, loose bells contained in said drum, bells elastically attached to the periphery of said drum, and means for making said bells rotate in the same plane as said drum.

1,383,284. LAST-PULLING MACHINE. MICHAEL F. BROGAN, Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 24, 1917. Serial No. 192,954. 65 Claims. (Cl. 12—1.)

1. A machine of the class described, having, in combination, a shoe holder, a last holder, mechanism for relatively moving said shoe holder and said last holder to effect relative movement of a last and its shoe, to separate said last and shoe, and auxiliary means coöperating with said mechanism effective to cause lengthwise relative thrust of the last heel and shoe counter and subsequently effective to augment said lengthwise relative thrust to relieve strain upon the forepart of the shoe upper.

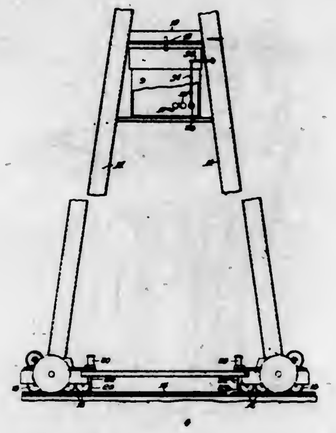


1,383,285. SAW-GUARD. JOSEPH H. BURKE, Portland, Me. Filed May 22, 1920. Serial No. 383,380. 2 Claims. (Cl. 143—159.)



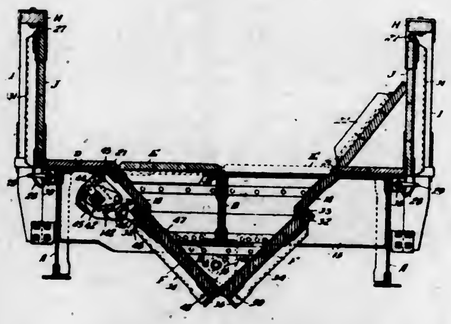
1. In a saw guard mechanism, the combination of a depending post, a rod slidably and rotatably connected with its lower end, said rod having a lateral offset at its lower end, a vertical socket on said offset, a sliding bar in said socket, a hood carried by said bar and means for partially counter-balancing the weight of said bar and guard.

1,383,286. AUTOMATIC BRIDGE CONTROL. CARL O. BURTON, Duluth, Minn. Filed Dec. 7, 1918. Serial No. 265,753. 28 Claims. (Cl. 105—61.)



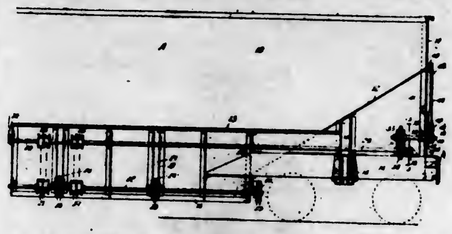
1. In combination, a bridge of the class described, and means for automatically righting the position thereof when the opposite ends of the bridge have moved in opposite directions a given amount.

1,383,287. CONVERTIBLE GONDOLA BALLAST-CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed June 28, 1920. Serial No. 392,203. 13 Claims. (Cl. 105—243.)



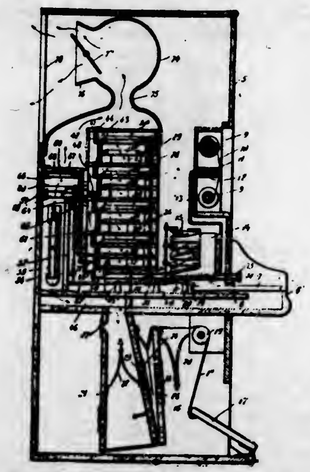
2. A convertible car of the character described, said car having: an underframe including side girders, a relatively deep single center sill, and diaphragms of substantially the same depth as said center sill; side walls; permanent end floor sections at each end of the car; a hopper section intermediate said end floor sections and between the trucks; removable end walls; longitudinally extending floor doors pivoted along their outer edges and adapted to form either a part of the floor or to be inclined upwardly and outwardly against the side walls to form part of a hopper; sets of oppositely swinging pivoted hopper doors hinged along their upper edges at points between the center sill and respective side girder; and operating mechanism for the hopper doors.

1,383,288. DUMP-CAR AND DOOR-OPERATING MECHANISM THEREFOR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 27, 1920. Serial No. 406,265. 3 Claims. (Cl. 105—255.)



1. In a dump car having a longitudinally extending central ridge and side dumping hopper doors: the combination with a longitudinally and horisontally extending shaft disposed beneath the apex of said ridge, one end of said shaft terminating between a bolster and end sill at one end of the car; of connections between said shaft and the doors; a second short shaft at said end of the car extending horizontally, said short shaft having its outer end terminating above and adjacent to said end sill and its other end longitudinally overlapping the adjacent end of said first shaft; means at the outer end of said second shaft adapted to lock the latter; pawl and ratchet mechanism, including a lever, for rotating said second shaft, said lever normally extending upwardly from said second shaft and operable by the user when the latter is standing on said end sill; and reduction gearing operatively interposed between said overlapped portions of the shafts.

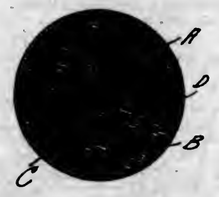
1,383,289. REED-ORGAN. WILLIAM AUGUSTUS COOK, Brooklyn, N. Y. Filed Jan. 17, 1920. Serial No. 352,178. 5 Claims. (Cl. 84—351.)



1. In a reed organ, the combination of a plurality of vertical banks of reeds, means for inducing the passage of air through the reeds, means for controlling the passage of air through the individual banks of reeds, a plurality of swells each controlling the volume of tone from a plurality of reeds, and means for manually and simultaneously adjustably actuating the swells.

2. In a reed organ, the combination of a plurality of vertical banks of reeds, means for inducing the passage of air through the reeds, means for controlling the passage of air through the individual banks of reeds, a plurality of swells each controlling the volume of tone from a plurality of reeds, means for manually and simultaneously adjustably actuating the swells, an amplifier through which the sound is directed from the organ, and a damper in the throat of the amplifier.

1,383,290. PROCESS OF PRODUCING CONFECTIONS. JOHN A. CREMSEY, Dallas, Tex. Filed July 28, 1919. Serial No. 313,919. 4 Claims. (Cl. 107—54.)



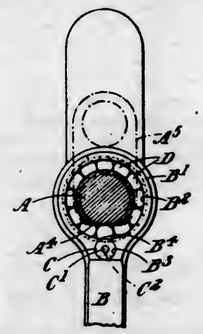
4. The herein-described method of producing a new article of manufacture which is edible throughout, which consists in molding dough into a pair of relatively thin curved casing sections and baking the dough crisp so that it possesses a porous or grain appearance, molding an edible filling to fit snugly within the pair of casing sections, applying the casing sections to the molded filling to inclose the same, applying cement which is edible to the edges of the casing sections and allowing the cement to harden, and forming a seam upon the casing sections whereby the completed article simulates a ball used in playing games.

1,383,291. FIRE-TUBE CLEANER. IGNAZIO DIVIRGLIO, Pitcairn, Pa. Filed Jan. 15, 1921. Serial No. 437,413. 1 Claim. (Cl. 83—64.)



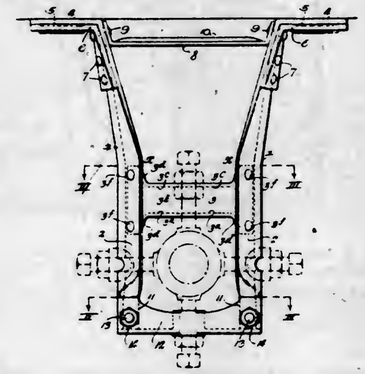
A tube cleaner comprising a head formed solid throughout its diameter and length and tapered toward its front end and provided at its rear or large end with a device adapting it to be engaged with one member of a universal coupling, the surface of said head being grooved both longitudinally and annularly to form a multiplicity of pyramidal radial projections which are arranged in alinement both circumferentially and longitudinally of the tool.

1,383,292. ROLLER-BEARING. WILLIAM DOUGLAS, Kingswood, Bristol, England. Filed Mar. 4, 1919. Serial No. 280,557. 2 Claims. (Cl. 64—39.)



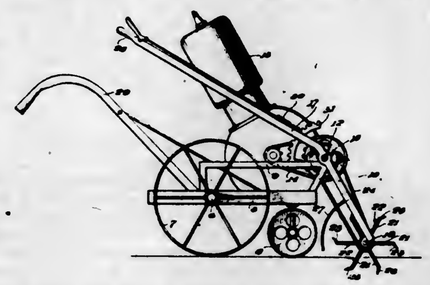
1. In a roller bearing for a crank and connecting rod the combination with the rollers, of the crank pin having an annular recess of a width and depth to receive the rollers with a working clearance, the eye of the connecting rod having formed therein a race with a gap provided in one of the side flanges of said race, said gap being adapted to be registered with a gap provided in one of the side-walls of the said annular recess so as to provide an opening of a size readily to admit the rollers, and a disk adapted to be placed in said recess for closing the gap in the side flange of the said race thereby preventing endwise movement of the rollers.

1,383,293. SHAFT-HANGER. HARALD F. GADE, Philadelphia, Pa., assignor to Standard Pressed Steel Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 14, 1916. Serial No. 137,008. 3 Claims. (Cl. 64—14.)



1. A shaft hanger comprising a pair of legs made of standard or commercial metal V-shape in cross-section with the sharp edges outwardly disposed, each of said legs having its upper terminal end flattened and bent to form a foot disposed at right angles to the vertical plane of the hanger and the opposite and lower terminal end reshaped into channel form in cross-section, with the major portion of the original V-shape metal unchanged in cross-sectional character intermediate said terminal ends, a cross member at the lower part of the hanger having extremities embracing the channel-shaped lower terminals of said legs, and means for connecting the cross member to said leg terminals.

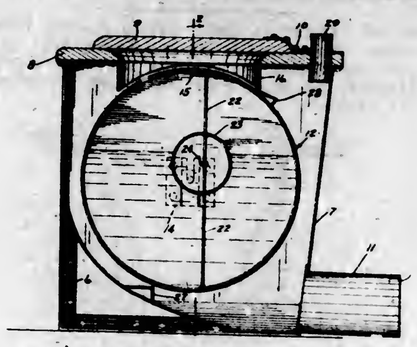
1,383,294. AGRICULTURAL IMPLEMENT. CHARLES H. GARDNER, Jr., Oakland, Calif. Filed November 20, 1919. Serial No. 339,339. 5 Claims. (Cl. 97—25.)



2. In an agricultural implement, the combination of an operating shaft, a lever supported thereby, a forwardly and downwardly extending arm on said lever, a second forwardly and downwardly extending arm pivotally carried by said shaft, a tool carrying shaft supported by the lower ends of said arms, a plurality of radially extending

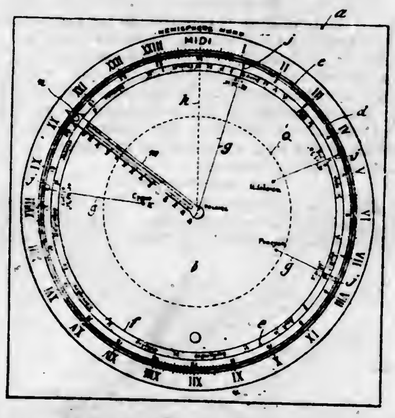
earth working tools detachably carried by said tool carrying shaft, said lever adapted to be rocked upon said operating shaft as a fulcrum for varying the elevation of said earth working tools.

1,383,295. CLOSET. WILLIAM H. GAUSEWITZ, Minneapolis, Minn., and HOWARD B. CUMMINGS, Prescott, Wis.; said Cummings assignor to said Gausewitz. Filed Aug. 27, 1919. Serial No. 320,119. 5 Claims. (Cl. 4—20.)



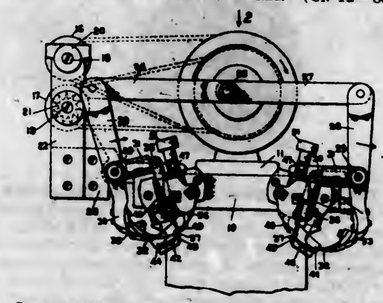
1. A closet of the kind described comprising a cover-equipped casing, a discharge conduit leading from the casing, a receptacle mounted in the casing for movement to and from an emptying position, and an agitating blade in the receptacle.

1,383,296. STAR-TRANSIT CALCULATOR AND INDICATOR FOR MARINERS. HENRI LOUIS VICTOR DÉSIRÉ GIOT, Le Hâvre, France. Filed Dec. 1, 1917. Serial No. 204,822. 1 Claim. (Cl. 35—3.)



A planisphere for navigators' use comprising, in combination, a plate having a circular aperture therein, a disk revoluble within the said aperture, a pivot disposed at the center of the said disk and a revoluble pointer mounted upon the said pivot, the said pointer containing a graduated scale in degrees of altitude counting from the equator, the said plate containing upon the edge of the aperture thereof a circular graduated scale representing a day divided into 24 hours and the subdivisions of the hours, the said disk having represented upon its surface a map of the heavens and near the periphery thereof a graduated time scale of like nature to that of the said plate as well as two concentric graduated scales representing the year divided into 365 days according to the actual time and the mean time respectively, the same disk also having represented upon the surface thereof the declination of the principal stars at a given period of time as well as the annual variations of the declinations, substantially as described.

1,383,297. EDGE-TRIMMING MACHINE. EPHRAIM GODIEN, Marlboro, Mass., assignor of twenty per cent. to Existe Bouthillette, Marlboro, Mass. Filed July 20, 1920. Serial No. 397,650. 5 Claims. (Cl. 12—85.)



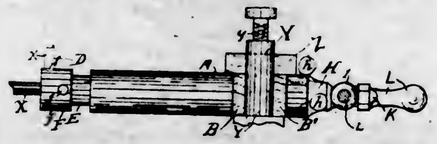
1. In a machine for finishing the trimming of the edge of a boot or shoe sole, the combination with an edge trimming finishing knife and a transverse cutting knife working substantially in the plane of the breast of the heel, of a stop for engaging the side of the heel, means for positioning said stop, means for yieldingly pressing said stop toward the heel, means for limiting its motion in that direction, and means for adjusting said limiting means.

1,383,298. PENCIL-TIP AND PENHOLDER. HOMOBONO GONZALES, Paranaque, Philippine Islands. Filed July 8, 1919. Serial No. 309,320. 4 Claims. (Cl. 120—84.)



4. In a pencil tip and pen holder, the combination of a tubular body having one end enlarged for mounting upon an end of a pencil, pen retaining means carried by said body, a sleeve slidably mounted upon said body and positioned upon the small portion of said body in such manner that the exterior of said slidable sleeve is lodged in substantially the same plane as the exterior of said enlarged portion of the body, said sleeve provided with a longitudinally extending slot and a pair of oppositely extending arcuate outstruck portions at spaced ends of the slot, an outstruck knob formed upon said body near the end remote from the enlarged end and adapted to ride in said longitudinal slot upon sliding movement of the sleeve and to be moved into the recess formed by either of the outstruck portions to retain the sleeve in adjusted position for housing or unhousing the pen point.

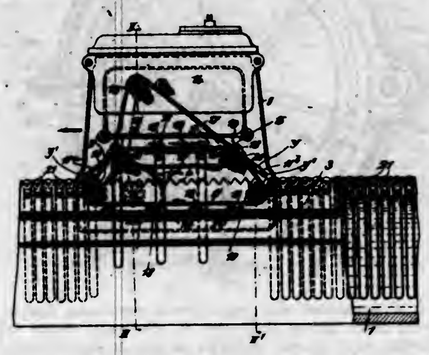
1,383,299. COMPOUND TOOL REST AND HOLDER FOR LATHES. WILLIAM S. GOODING, Chicago, Ill. Filed Mar. 15, 1920. Serial No. 365,987. 2 Claims. (Cl. 29—96.)



1. In a compound tool rest, a shell, parallel abutments on said shell, and said shell provided with a longitudinally

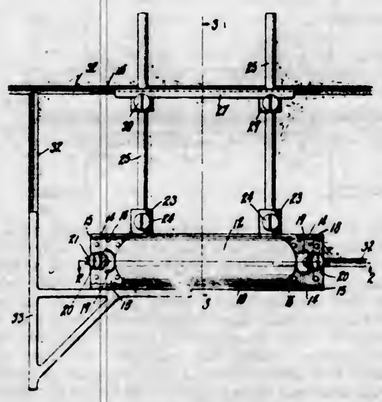
extending passage-way therethrough, a member longitudinally movable in said passage-way, and provided with an axially extending screw threaded well, a member rigidly attached to one end of said shell, a screw threaded member rotatably mounted in said last member, said screw threaded member corresponding with the screw threads in said well, and engageable therewith, and means to manually rotate said screw threaded member, all combined as set forth.

1,383,300. TREATING HANKS OF YARN WITH LIQUID. HEINRICH HABLÜTZEL-FREI, Zurich, Switzerland. Filed Feb. 4, 1921. Serial No. 442,459. 3 Claims. (Cl. 8—19.)



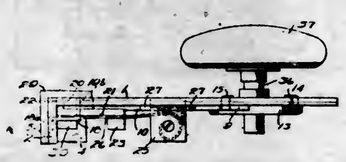
1. In an arrangement for treating hanks of yarn with a liquid contained in a trough, a frame movable over the trough, a pair of endless flexible conveying members provided with double hooked members and forming inclined slopes for lifting and lowering the hank carriers engaged by said hooked members, and means provided in front of said slopes for lifting the hank carriers off the hooked members and the conveying members and for placing them at some distance from the descending slope.

1,383,301. IMPLEMENT FOR FORMING GROOVES IN PLASTIC MASONRY. JOHN D. HENDRICKS, Miami, Fla. Filed Nov. 29, 1919. Serial No. 341,354. 8 Claims. (Cl. 72—138.)



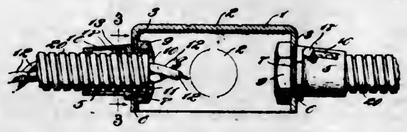
1. A hand implement for forming grooves in plastic surfaces comprising a body, a handle therefor, bits secured at each end of said body and being of materially less width than said body, both of said bits having their active ends extended below the bottom and beyond the ends of the body whereby both bits may be brought into action simultaneously in forming a single groove in plastics.

1,383,302. LATCH. LUTHER WATSON HOLLAND, Pleasant Hill, Mo. Filed May 20, 1920. Serial No. 382,946. 9 Claims. (Cl. 292—173.)



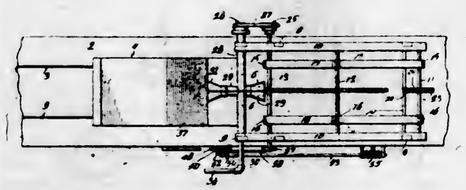
1. The combination with a strike plate having a latching lug, of a latch having a casing provided with an opening arranged to receive the lug, a movable latching dog having a portion arranged to enter between the lug and the casing of the latch, and a movable handle having a portion arranged to engage said latching dog to move it out of engagement with the lug, said dog being adapted to move relatively to said handle, and a spring for forcing said lever into engagement with the latching dog.

1,383,303. COUPLING. JAMES T. HONEN, Cleveland, Ohio, assignor to The Grabler Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 20, 1919. Serial No. 283,839. 9 Claims. (Cl. 247—25.)



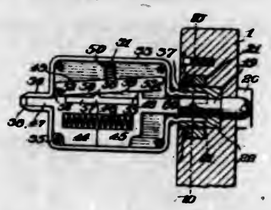
1. A device of the character set forth consisting of a sleeve designed for attachment to a receptacle in register with a wire admitting aperture thereof, and means carried by said sleeve permitting the easy introduction of the end of a conduit into the sleeve and acting automatically to lock the conduit against withdrawal therefrom.

1,383,304. FEEDING MECHANISM FOR PLATES AND THE LIKE. THOMAS B. HUGHES, WILLIAM J. DAVIS, and DAVID DANIEL HUGHES, Granite City, Ill. Filed Apr. 27, 1920. Serial No. 376,935. 2 Claims. (Cl. 271—28.)



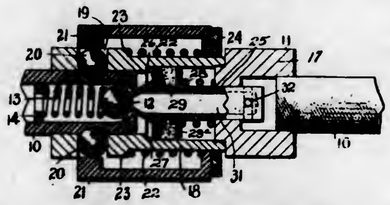
1. A plate handling machine comprising means for supporting a stack of plates, and rotatably and slidably mounted oppositely disposed connected suction funnels for alternately engaging a plate to convey it to a place of deposit.

1,383,305. PHOTOGRAPHIC EXPOSURE MECHANISM. DAVID M. HURLBURT, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 5, 1917. Serial No. 166,571. 9 Claims. (Cl. 95—31.)



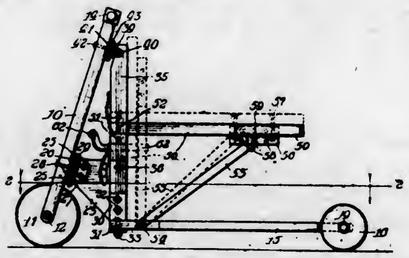
1. In a photographic camera, the combination with means for shifting sensitive material in the focal plane of the camera and a shutter controlling mechanism, of a lock for the said mechanism and a removable key for sequentially operating the lock and the shifting means.

1,383,306. CONNECTOR FOR LUBRICATING APPARATUS. RAYNALDO P. JACQUES, Woonsocket, R. I. Filed Aug. 23, 1920. Serial No. 405,349. 2 Claims. (Cl. 284—19.)



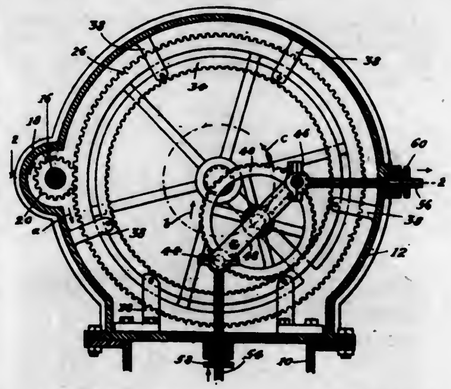
2. A connector for lubricating apparatus having, in combination, a nipple having a recessed outer surface, a nozzle having radially movable locking elements co-acting with said recessed nipple and manual releasing means normally holding said elements in locking position, said nozzle having a spring pressed plunger with an axially extending passage therethrough for the lubricant and having a conical outer end yieldingly engaging the edge of the axial opening in the nipple and forming a tight connection therewith.

1,383,307. VEHICLE FOR CHILDREN. LUTHER JOHNS, Oak Park, Ill. Filed Mar. 26, 1920. Serial No. 368,880. 14 Claims. (Cl. 208—165.)



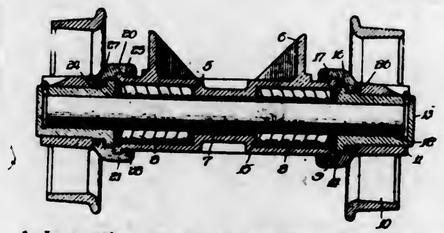
1. A vehicle of the class described comprising a steering post and a wheel operatively mounted therein, rear wheels, an intermediate member pivotally connected to the steering post and extending rearward and its rear end portion supported by the rear wheels, a bracing member secured to the intermediate member and extending upward therefrom and pivotally connected to the steering post at a higher elevation than the pivotal connection for the intermediate member, and a seat secured to said bracing member.

1,383,308. MECHANICAL MOVEMENT. EDWARD E. JOHNSON, St. Paul, Minn. Filed June 14, 1919. Serial No. 304,193. 3 Claims. (Cl. 74—34.)



1. A mechanical movement device comprising two external gears having their axes in alinement, means for rotating said external gears in unison, a fixed internal gear mounted with its center in alinement with the axes of said external gears, a spur gear carried in an annular path by said external gears, said spur gear meshing with said internal gear and having a diameter one-half that of said internal gear, crank pins secured to said spur gear at different angular positions with their centers at the same radial distance as the pitch line of said spur gear, and rods journaled on said crank pins for movement in diametral lines of said internal gear.

1,383,309. MINE-CAR WHEEL. FRANK E. JOHNSON, Salt Lake City, Utah, assignor to American Manganese Steel Company, Chicago, Ill., a Corporation of Maine. Filed Nov. 10, 1919. Serial No. 336,956. 2 Claims. (Cl. 295—45.)



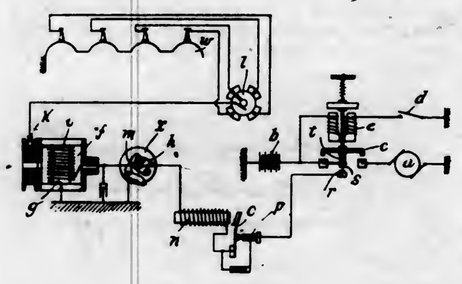
1. In a mine car, in combination, a loose axle, a housing for supporting said axle on the car, bearings for said axle supported within said housing, wheels adapted for removable association with said axle, a wheel being formed with the hub portion hving a flange on the end adjacent said housing, said housing having flanges at the ends thereof which flanges are of greater diameter than the hub flanges, means for removably retaining said wheels on said axle including a ring composed of several segments, said ring having a groove formed in its interior for receiving the flange on the housing to prevent bodily movement longitudinally thereof and provided with an annular shoulder for hooking engagement with the flange on the wheel.

1,383,310. COLLAR-BUTTON. ROGER ALOYSIUS KAHL, Wallingford, Conn. Filed June 7, 1920, Serial No. 387,150. Renewed May 19, 1921. Serial No. 470,949. 2 Claims. (Cl. 24—101.)



1. A collar button comprising a base, a shank formed on the base and having a pair of notches formed in one longitudinal edge thereof and another pair of notches formed in the other edge thereof, the notches of the first pair being arranged in staggered relation with respect to the notches of the other pair, and transversely extending grooves formed on the opposite sides of the said shank at points coinciding with said notches.

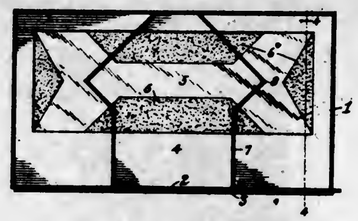
1,383,311. STARTING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. FRANZ KRATZ, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Apr. 9, 1915. Serial No. 20,166. 2 Claims. (Cl. 290—37.)



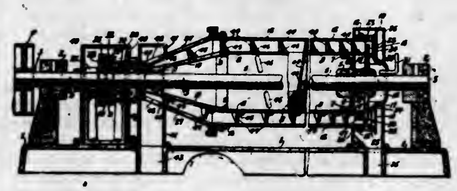
1. The combination with an internal combustion engine having spark plugs, and a starting motor for the engine; of a combined starting and running ignition system comprising a magneto geared to the engine for supplying ignition currents to the spark plugs during the running period; a buzzer connected to the magneto to supply vibratory currents thereto; a source of power supply; and a controlling member, which in a single operation, connects the source to the motor to start the engine and renders the buzzer effective to cause the magneto to supply ignition currents to the spark plugs during the starting period, and which, in the reverse operation, disconnects the source from the motor and renders the buzzer ineffective so that the magneto by itself supplies the ignition currents to the spark plugs.

1,383,312. AUTOMOBILE-SIGNAL. CLARK H. LANDIS, Bowling Green, Ohio. Filed Oct. 30, 1919, Serial No. 334,441. Renewed Mar. 10, 1921. Serial No. 451,331. 2 Claims. (Cl. 177—329.)

1. A signal of the character described, comprising a housing having its forward and rear walls provided with openings, a sign carrying plate covering each opening and marked to provide a longitudinally extending indicator having a head at each end, transversely extending partitions positioned vertically in the housing and dividing the same into a central compartment and end compartments and at points intermediate their height off-set to intersect the heads of the indicators upon the cover plates, a partition carried by the transverse partitions and extending longitudinally of the housing in the upper portion thereof, and means for connecting lighting elements with the lower edge portion of the longitudinally extending partition for selectively lighting the central and end compartments of the housing.

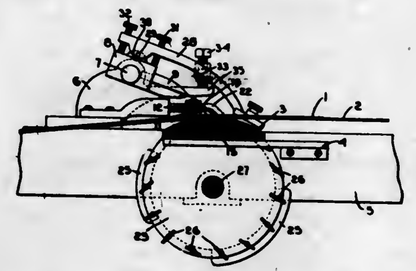


1,383,313. CENTRIFUGAL APPARATUS. CLARENCE P. LANDRETH, Philadelphia, Pa. Filed June 24, 1920. Serial No. 391,346. 6 Claims. (Cl. 233—7.)



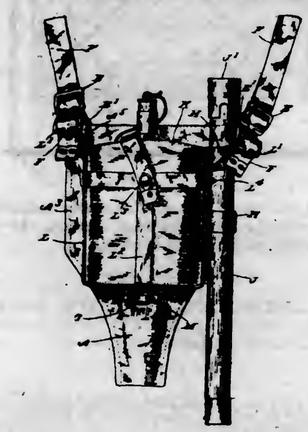
1. Centrifugal apparatus comprising an inner drum and an outer drum co-axial with said inner drum, converging co-axial extensions on adjacent ends of said drums, means for rotating said drums and extensions in the same direction at different rates of speed, means for feeding material between said drums, and means for advancing said material between said drums to said extensions and between said extensions toward the smaller ends thereof at a progressively increasing rate.

1,383,314. PAPER-RULING-PEN UNDERLIFT. CAMILLE J. LA VIGUEUR, Beachmont, Mass. Filed Sept. 13, 1920. Serial No. 409,828. 8 Claims. (Cl. 33—39.)



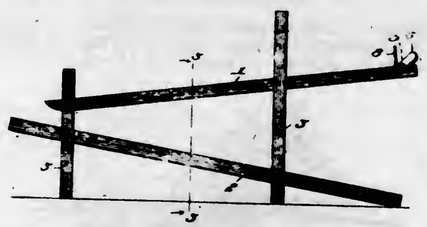
1. In combination with a paper ruling machine comprising paper feeding means, a pen beam, a series of pens mounted thereon and means for supporting the pens in operative relation to the paper, under-lifting means for said pens comprising a rocker, a clip underlying one of said ruling pens and formed with clamping means detachably engaging said rocker, and means for operating said rocker to cause said clip to raise the pen engaged by it from the paper.

1,383,315. MILITARY EQUIPMENT. ALBERT ALEXANDER LETHBEN, London, England, assignor, by mesne assignments, to Mills Belt Company, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 29, 1917. Serial No. 198,945. 1 Claim. (Cl. 224—8.)



In military and the like equipment, the combination with brace or suspender members, and a pocket having at its top oppositely located buckles which adjustably and detachably engage the extremities of said members, of a carrier having at opposite sides of its top buckles also engaging similarly with the said extremities, and separate means for connecting the lower portion of the carrier with the pocket, comprising a strip and buckle, one thereof connected with the pocket and the other with the lower portion of the carrier, and adapted to be disengaged from each other without other fastening means being disturbed.

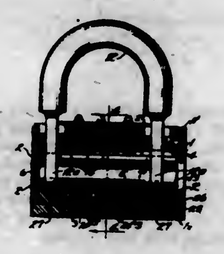
1,383,316. TOY. JEROME G. LIEBERT, Highland, N. Y., assignor to Robert Raymond Riordon, Highland, N. Y. Filed Feb. 15, 1921. Serial No. 445,148. 1 Claim. (Cl. 46—61.)



A toy comprising upper and lower platforms reversely inclined relative to each other, each platform having a plurality of parallel tracks thereon, the tracks on the lower platform being vertically alined with the respective tracks of the upper platform, a plurality of tumblers adapted to travel over the platforms, each tumbler running in one track, and removable means for temporarily restraining all the tumblers at the upper end of the upper platform.

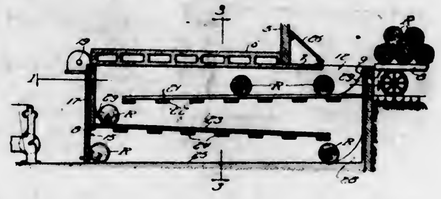
1,383,317. COMBINATION-PADLOCK. WILLIAM S. MCADOO, Chicago, Ill. Filed Aug. 2, 1920. Serial No. 400,724. 9 Claims. (Cl. 70—113.)

1. A combination padlock comprising a body portion or barrel having a central bore and being provided with transverse slots, a bushing disposed in said bore, wheels or rings disposed in said transverse slots and arranged to rotate on said bushing, said wheels being countersunk beneath the outer surface of said body portion, a reinforcing casing arranged to slip over said body portion, said casing, said body portion and said bushing having



registering openings, a shackle having ends provided with openings arranged to enter said registering openings, and a pin adapted to pass through the openings in the ends of said shackle and into the interior of the bushing for holding said shackle in position when said rings are in predetermined positions.

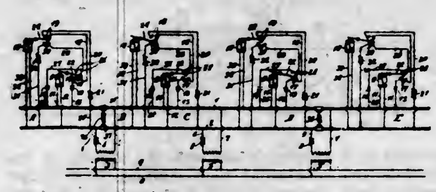
1,383,318. PAPER-ROLL STORAGE AND DELIVERY GALLERY. ROBERT R. MCCORMICK, Chicago, Ill. Filed Sept. 29, 1919. Serial No. 327,261. 2 Claims. (Cl. 193—43.)



1. A building having a basement extended out in front of one of the outer walls thereof, and a platform built out from said wall over the extended portion of said basement and having a hatchway therein, in combination with a gallery built from under said hatchway into said basement within said building and having a floor inclined from its end under said hatchway to its inner end, runways each consisting of two separate shelves arranged in the same horizontal plane and secured to and projecting from the side walls of the gallery, the upper most of which extends from under the hatchway toward but terminates before it reaches the inner end of the gallery, an intermediate runway which extends from the inner end of the gallery toward but terminates before it reaches the outer end of said gallery, and means at the inner end of said incline to prevent the discharge of objects therefrom.

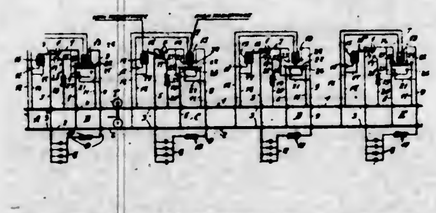
1,383,319. TRACK-CIRCUIT SYSTEM. WILLIAM W. MACFARLANE, Elkins Park, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y., a Corporation of Delaware. Original application filed May 4, 1916, Serial No. 95,305. Divided and this application filed Sept. 20, 1917, Serial No. 192,299. Renewed Nov. 11, 1920. Serial No. 423,488. 11 Claims. (Cl. 246—33.)

11. A system of train control comprising: a track divided into insulated blocks, means for continuously supplying current of a certain characteristic to the rails of each block, a track relay for each block normally energized by said current, and means controlled jointly by the relay in a given block and the relay in the block next in advance



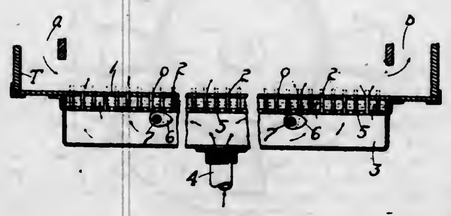
for supplying current of a different characteristic to the rails of the given block to control the passage of a train therethrough.

1,383,320. TRACK-CIRCUIT SYSTEM. WILLIAM W. MACFARLANE, Elkins Park, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y., a Corporation of Delaware. Original application filed Mar. 8, 1916, Serial No. 82,861. Renewed Mar. 10, 1919, Serial No. 281,816. Divided and this application filed Sept. 20, 1917, Serial No. 192,296. Renewed Nov. 26, 1920. Serial No. 426,609. 4 Claims. (Cl. 246—45.)



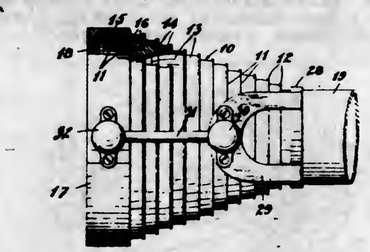
2. A track circuit system comprising: track rails divided into sections, means for supplying current to the rails of each section, a pair of relays for each section controlled by current from said current supplying means of their own section, a circuit reversing device in each section operated by one of said relays of the preceding section, the other of said relays being adapted to modify the current supplied to the next adjoining section to thereby control the circuit reversing device operating relay of the second adjoining section.

1,383,321. FLOTATION APPARATUS. FRANK E. MARCY, Salt Lake City, Utah. Filed Mar. 24, 1919, Serial No. 284,700. Renewed Oct. 13, 1920. Serial No. 416,774. 37 Claims. (Cl. 261—121.)



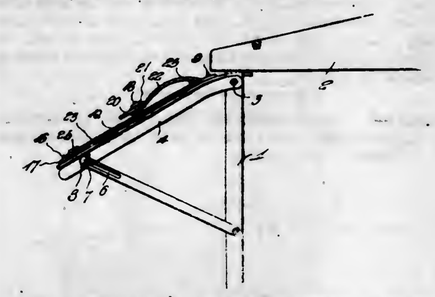
1. A flotation cell provided with a bottom having air inlet openings, and means within the confines of the openings forming suitable passageways with the walls thereof for the passage of air into the cell.

1,383,322. FLEXIBLE JOINT FOR DIVING-ARMOR. ARTHUR PHELPS MABE, Brooklyn, N. Y., assignor to Oceanic Salvage Corporation, New York, N. Y., a Corporation of Delaware. Filed Sept. 18, 1919. Serial No. 324,404. 3 Claims. (Cl. 61—70.)



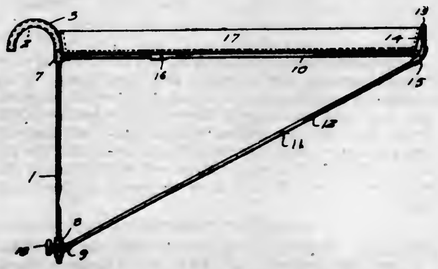
1. A watertight flexible joint comprising a plurality of rings, portions of the inner and outer surfaces of which comprise spherical zones, and means to prevent the rings from becoming jammed.

1,383,323. WINDSHIELD-SHADE. WILLIAM RALPH MARSH, Muskogee, Okla. Filed July 1, 1920. Serial No. 393,286. 5 Claims. (Cl. 296—95.)



1. In a windshield shade, supports adapted to decline from a windshield, a pliable shade secured at its upper end to said supports, means for detachably connecting the lower end of said shade with said supports, posts rising from said supports between their ends, said shade having eyes through which said posts project, straps secured to the upper end of the shade and adapted for holding the same in rolled position, and fasteners on the front ends of said straps for engagement with the upper ends of said posts when the shade is either rolled or unrolled.

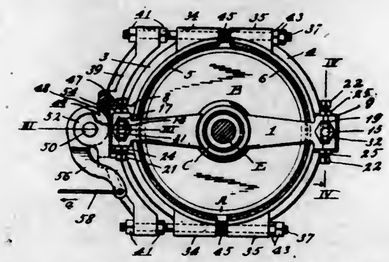
1,383,324. PORTABLE RACK OR FRAME. CHARLES B. MARTELL, New Orleans, La. Filed Sept. 16, 1920. Serial No. 410,676. 5 Claims. (Cl. 224—29.)



3. A portable rack comprising uprights having their upper ends bent to form attaching hooks, sleeves journaled on said uprights, means connecting said sleeves, a tray supporting member pivoted to the lower sleeves and ex-

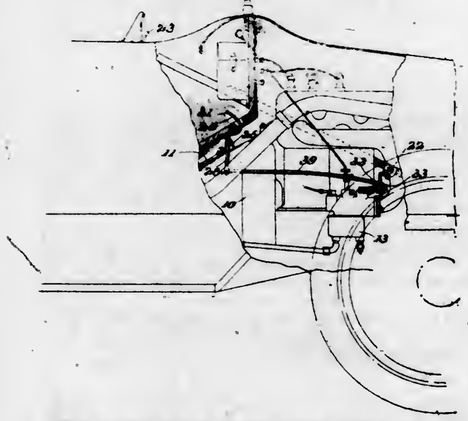
tending upwardly and outwardly therefrom, and folding tray supporting arms pivoted to the upper sleeves and to the upper end of said frame and adapted to permit the frame to be folded in the direction of the uprights.

1,383,325. BRAKE MECHANISM. LOUIS MASCHEK and JAMES A. NIBLO, Kansas City, Mo. Filed Apr. 1, 1919. Serial No. 286,656. 4 Claims. (Cl. 188—75.)



2. In combination with a wheel, shoes arranged to engage said wheel, means to adjust said shoes vertically and independently of the wheel, a support for the shoe adjusting means, a member disposed adjacent one of said shoes, elements connecting said member and the shoe most remote therefrom, the adjacent shoe being slidable upon said elements, and means to force said member and the adjacent shoe in opposite directions to cause the shoes to engage the wheel.

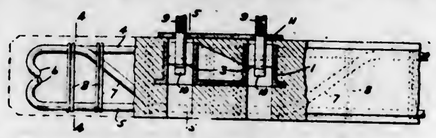
1,383,326. ACCELERATOR. JOSEPH H. M. MICHON, Baltimore, Md. Filed Oct. 24, 1919. Serial No. 332,991. 7 Claims. (Cl. 74—39.)



1. The combination with a motor vehicle provided with a throttle control rod having an arm fixed thereto, of an accelerator including a foot lever, a connection between said lever and the throttle valve of the vehicle engine carbureter, and a connection between said valve and the throttle control rod free of the arm but held thereby against shifting in opposite directions along the rod for movement by the arm as well as movement independently thereof.

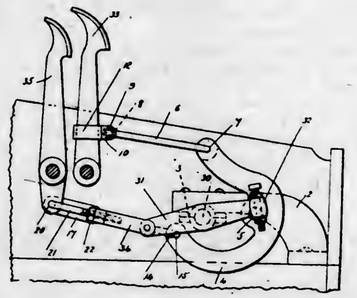
1,383,327. CONCRETE RAILWAY-TIE. GUIDO MISRAOCCHI, Philadelphia, Pa. Filed Dec. 14, 1920. Serial No. 430,705. 1 Claim. (Cl. 238—92.)

The combination of two metal box-like structures each of T-shape in plan and each having clear through it rectangular openings of two dimensions at different levels and of which the bottoms of the openings at the lower level constitute angular seats, a reinforced concrete tie in which the two structures are embedded and which is



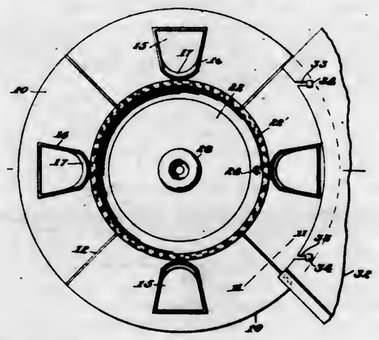
provided with openings alined with the openings in the structure, and bolts having heads engaging the seats and passable clear through the tie from both the top and bottom thereof.

1,383,328. CLUTCH-RELEASE. JOSEPH MUELLER, Terre Haute, Ind. Filed Mar. 11, 1920. Serial No. 365,191. 1 Claim. (Cl. 74—81.)



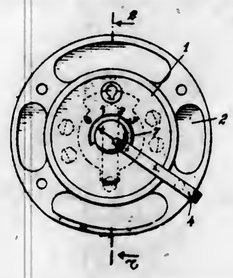
In an automatic clutch release, a stationary support, a lever having its middle part pivoted to the support, a rod pivoted to the upper end portion of the said lever, a strap for engaging a brake lever, said strap being pivoted to the said rod, a screwthreaded rod pivoted to the lower end portion of the said lever, a longitudinally slotted block adjustable on the said screwthreaded rod, and a connecting-rod for engagement with the clutch lever, said connecting-rod having a laterally projecting pin at one end which is slidable in the slot of the said block.

1,381,329. OIL-BURNER. WILLIAM D. MURRAY, Norfolk, Va. Filed Apr. 1, 1919. Serial No. 286,718. 18 Claims. (Cl. 158—91.)



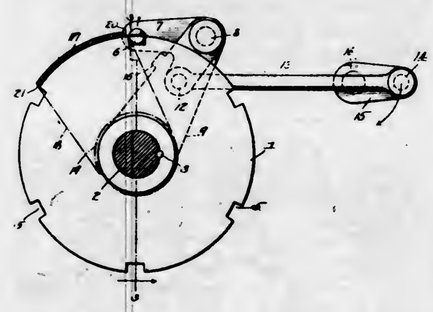
6. A bed-plate for oil burners formed of a plurality of independent segmental units so disposed as to provide a central open area, one at least of said units having draft-tube seats formed therein.

1,383,330. ELECTRIC SWITCH. JAMES MYRVEN NAUL, Pittsfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1917. Serial No. 186,159. 10 Claims. (Cl. 200—44.)



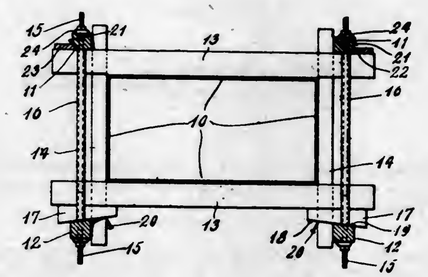
3. In a single switch structure for controlling the lighting and ignition circuits on an automobile or the like, a plurality of switch studs connected to the lighting circuits, a switch arm having a position in which said studs are disengaged and having other positions in which said studs are engaged, a switch stud connected to the ignition circuit, a grounded member movable with the switch arm and engageable with the stud connected to the ignition circuit when the switch arm is in the said position in which it is disengaged from the studs connected to the lighting circuits, and locking mechanism, including a removable member, for locking said switch arm in any of said positions.

1,383,331. INDEX MECHANISM. ELOF NORDSTROM, Newark, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation, a Corporation of Delaware. Filed Mar. 24, 1919. Serial No. 284,649. 1 Claim. (Cl. 74—54.)



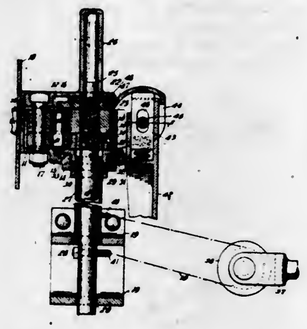
The combination with a rotary table provided with peripheral notches, of an arm oscillatable about the axis of said rotary table, a bell crank lever pivoted on the outer end of said oscillatable arm, a pin carried by one arm of said bell crank lever and adapted to fit said notches, a plate arranged adjacent the periphery of said table, said plate having a length substantially equal to the distance between two adjacent notches, said pin being confined between said plate and one of said notches during each movement of the table and means connected to the other arm of said bell crank lever for imparting movements to said bell crank lever to move said pin into and out of engagement with a notch and through said bell crank imparting the oscillatory movements to said arm.

1,383,332. FORM-CLAMP FOR CONCRETE COLUMNS. SAMUEL O. NYSTROM, Harrison, N. J. Filed Aug. 19, 1920. Serial No. 404,521. 4 Claims. (Cl. 144—291.)



1. A clamp for concrete forms having intersecting side and end bars arranged respectively in pairs and in parallel planes, uprights arranged in the exterior angles formed by the extremities of said bars, tie bolts transversely connecting the uprights and spacing sleeves fitted upon said tie rods and in terminal engagement with the facing surfaces of the uprights.

1,383,333. HAND-BRAKE FOR RAILWAY-CARS. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed May 26, 1920. Serial No. 384,440. 7 Claims. (Cl. 74—120.)

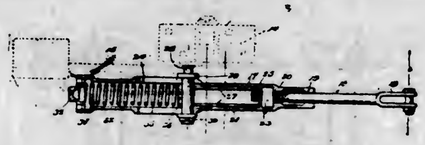


1. In a hand brake adapted for railway cars, the combination with a rotatable staff; of a concentric rotatable sleeve, said staff and sleeve being each adapted to have one end of a common flexible connection attached thereto and wound therearound, said staff being supported from said sleeve; a pawl and ratchet mechanism for effecting rotation of the staff directly and of the sleeve indirectly by reason of the friction arising from the staff being supported by the sleeve until the tension of said flexible connection on the sleeve overbalances the effect of the friction between the sleeve and staff; and independently acting devices for preventing rotation of the staff and sleeve in an unwinding direction.

1,383,334. CONNECTING-ROD FOR SWITCH-THROWS. CHARLES H. PARTINGTON, Cincinnati, Ohio, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio, a Corporation of Ohio. Filed May 6, 1921. Serial No. 467,427. 9 Claims. (Cl. 246—821.)

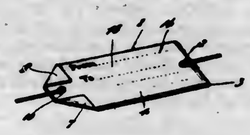
1. A switch throw rod including slidably connected rod sections, means for slidably supporting the rod for bodily

longitudinal movement, and yieldable means between one of the sections and the first means for resisting longi-



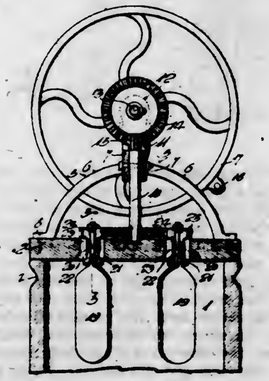
tudinal movement of the rod as well as sliding movement of one section relative to the other common to both movements.

1,383,335. SHIPPING-TAG. STANLEY PENKSA, Long Island City, N. Y. Filed Oct. 25, 1920. Serial No. 419,287. 5 Claims. (Cl. 40—6.)



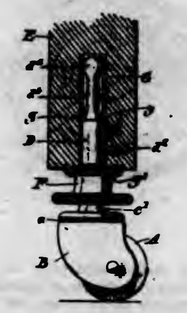
5. A shipping tag formed in duplicate and connected together, said tag being formed of a longitudinal member folded upon itself to provide said duplicate parts, eyes provided at both ends of said tag, one of said duplicate parts having bevels formed on one end thereof and the other of said parts having its corners folded over said beveled portions, address forms provided on the outer exposed surface of one of said parts and on the inner surface of the other of said parts.

1,383,336. CHURN. ROBERT H. PHILLIPS, Madisonville, Ky. Filed Dec. 27, 1920. Serial No. 433,378. 6 Claims. (Cl. 74—7.)



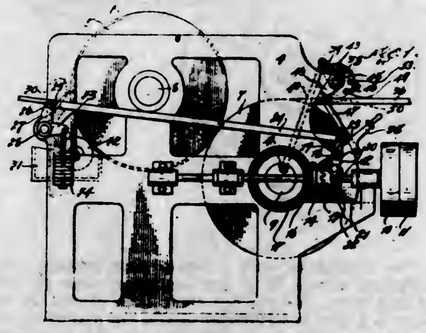
1. In a churn, a cover, a frame carried by said cover and having releasably connected side sections, including bearing forming portions, a driving shaft and a driven shaft extending between the sections and rotatably mounted in bearings formed when the sections are connected, means for transmitting rotary movement from the driving shaft to the driven shaft, bearings carried by said cover and extending through the same, sockets rotatably mounted in said bearings, means for transmitting rotary movement from said driven shaft to said sockets, and operating elements releasably held in engagement with said sockets and positioned beneath said cover.

1,383,337. CASTER. ROBERT M. POST, Chetek, Wis. Filed Feb. 11, 1921. Serial No. 444,184. 3 Claims. (Cl. 16—4.)



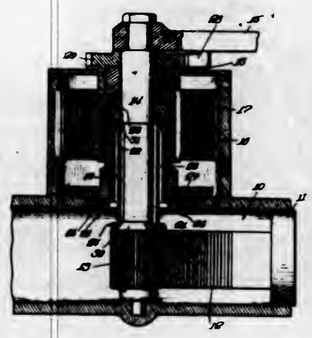
2. The combination of a tubular socket member having a yielding rib between its upper and lower ends, and a caster comprising a roller, its frame, a spindle connected with the frame and which has a threaded lower portion, an unthreaded intermediate portion which closely fits the socket member, a headed upper end which closely fits the socket member, and an intermediate portion of reduced diameter between the head and the unthreaded intermediate portion, and a nut carried by the threaded portion of the spindle.

1,383,338. AUTOMATIC SCRAPER CONTROL FOR ROTOGRAVURE-PRINTING PRESSES. CARL G. PRITCHARD, Warren, Ohio, assignor to The Harris Automatic Press Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed May 29, 1917, Serial No. 171,613. Divided and this application filed Nov. 26, 1920. Serial No. 426,382. 12 Claims. (Cl. 101—157.)



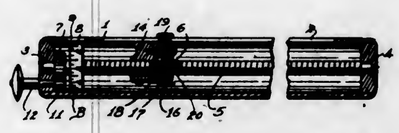
1. In a printing-press having printing and impression members, inking devices for said printing member, means for removing surplus ink from said printing member, means for driving said members, clutch means for connecting or disconnecting said driving means in relation to said members, and means actuated by said clutch means for changing the relation of said ink removing means to said printing member.

1,383,339. LIQUID DOOR-CLOSER. WALDO D. PUTNAM, Winnetka, Ill. Filed Sept. 27, 1920. Serial No. 413,241. 8 Claims. (Cl. 16—88.)



7. A door check construction comprising a dashpot chamber for the fluid under pressure, having an opening therein, an oscillatable shaft extending through said opening, means for preventing liquid from escaping through said opening, comprising a flexible, twistable sleeve, surrounding said shaft, and having one end secured to rotate with said shaft, and a spring drum acting on said shaft and surrounding said flexible sleeve.

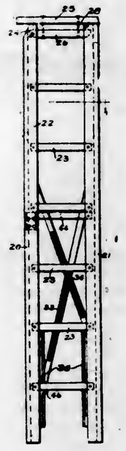
1,383,340. MEASURING DEVICE. EDWARD P. ROBBINS and SAMUEL S. MATTHES, Mansfield, Ohio. Filed Feb. 10, 1919. Serial No. 276,015. 2 Claims. (Cl. 33—141.)



1. A measuring device comprising a casing, a screw threaded shaft therein, a disk provided with a scale on its periphery secured on the shaft within the casing, an opening in the casing exposing a portion of the scale, a reading line on the casing to coöperate with said scale, a slide within the casing normally engaging the threads of said shaft and having a reading line to coöperate with a scale on the casing, a spindle rotatably mounted in one end of the casing and parallel with the shaft, a tracing wheel secured to the outer end of the spindle, means connecting the opposite end of the spindle to the shaft whereby rotation of the wheel is transmitted to the shaft thereby to impart longitudinal movement to the slide relatively to the casing, and means whereby the slide and shaft may be disengaged for resetting the slide.

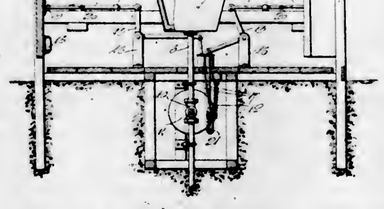
1,383,341. LADDER. FRANK M. DE SAUSSURE, Jr., Greenville, S. C. Filed Nov. 16, 1918. Serial No. 262,848. Renewed Nov. 26, 1920. Serial No. 426,605. 3 Claims. (Cl. 228—37.)

1. A step-ladder comprising folding stiles having channeled inner faces, rungs, certain of which are pivotally mounted at their ends within said stiles, the uppermost rung pivoted at one end only within a channel and rigidly secured to a batten, said batten pivotally secured within the opposite channel, a top step rigidly connected with



said batten, and means for rigidly holding the stiles, rungs and top step in unfolded position.

1,383,342. WATERING-TROUGH. CHRIST SCHMIDT, Everett, Wash. Filed Sept. 13, 1920. Serial No. 409,840. 3 Claims. (Cl. 119—75.)

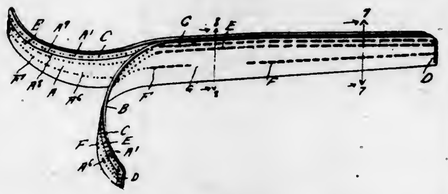


1. A structure of the character described comprising an inclosure having an entrance, inwardly opening doors hingedly mounted at the entrance and terminating in spaced relation when closed to permit of free passage of the head of an animal between the closed doors, a water receptacle within the inclosure having a feed pipe and a drain pipe, valves for the pipes, and actuating means for the valves operatively connected with one of the doors whereby movement of the door will impart movement to the valves to open and close the same.

1,383,343. COLLAR-BAND. CHARLES FRED SCHWARZ and CORNELIUS L. SHADER, Troy, N. Y. Filed May 22, 1920. Serial No. 383,473. 1 Claim. (Cl. 2—41.)

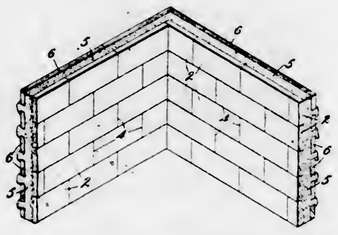
As a new article of manufacture, a neck band adapted to be attached permanently by stitching to the neck opening of a shirt, said band consisting of two similarly shaped blanks, each having its upper edge and its ends turned in upon the body of the blank, and each folded longitudinally on itself with its edges in abutting engagement with each other, and stitches passing through the inturned portions uniting the blanks at their upper edge, and a

second line of stitches passing through the blanks at a distance from the lower edges of the blanks, whereby an opening is provided for the insertion of the edge of the



neck opening of the shirt, said stitches limiting the distance to which the edge of the neck opening may be inserted within the opening in the neck band, and constituting a guide for positioning the band in the neck opening.

1,383,344. WALL OR SURFACE FOR DEADENING SOUND. JOHN K. SHAW, Minneapolis, Minn., assignor to B. G. Dahlberg, St. Paul, Minn. Filed May 23, 1918. Serial No. 236,159. 1 Claim. (Cl. 20—4.)



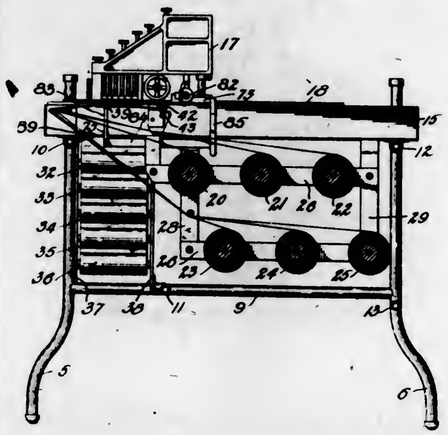
A sound deadening wall comprising a supporting structure; plaster applied to said structure; a surfacing material in the form of blocks ornamented in keeping with their surroundings and provided with pores applied to said plaster while in its green state, said plaster adhering to said blocks and entering said pores; said blocks being each composed of four sets of fibers differing in coarseness to such an extent that their specific gravity is less than four-tenths and a large proportion of air is entrained in their body portions to impart to said blocks unusual sound deadening qualities, substantially as described.

1,383,345. CASING-SPEAR. WALTER JAMES SHEEHAN, Santa Paula, Calif. Filed Apr. 16, 1920. Serial No. 374,406. 7 Claims. (Cl. 294—96.)



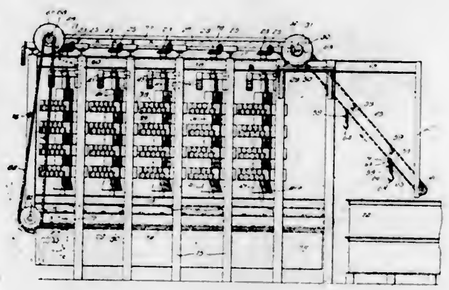
1. The combination with a casing spear including a body having casing gripping devices longitudinally movable thereon for effecting radial adjustments thereof, of means for adjustably limiting the movement of said gripping devices in a direction to effect radial expansion comprising an axially rotatable ring provided with a plurality of radial spirally arranged openings, and a radially movable key carried by the spear body and adapted to selectively engage said openings.

1,383,346. MANIFOLDING DEVICE FOR TYPEWRITING-MACHINES. WALTER C. SHOUP and WALTER E. OLIVER, Hoboken, N. J. Filed Apr. 11, 1918. Serial No. 227,909. 13 Claims. (Cl. 197—126.)



1. The combination, with a typewriter, of a platen therefor located outside the frame thereof but movable therewith relative to the work sheet for line-space movement.

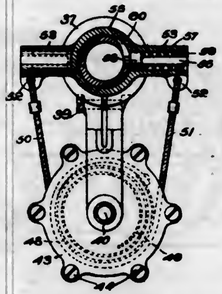
1,383,347. HOG-SCRAPING MACHINE. GRANVILLE H. STALLMAN, Chicago, Ill., assignor to The Mechanical Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1920. Serial No. 403,644. 13 Claims. (Cl. 17—11.)



1. A machine of the character described embodying mechanism for removing the hair and for cleaning the carcass, said mechanism embodying spaced vertical shafts between which the carcass is conveyed, a plurality of sets of flexible scrapers connected with each of the shafts and rotatable therewith to engage and move across the carcass, some of the scrapers of each set operating in a plane inclined to the plane of operation of others of the scrapers of the same set and to the axis of rotation of the shaft.

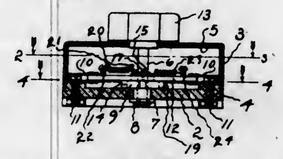
1,383,348. STEERING-POST-POSITIONING MEANS. CHARLES P. STANBON, Lynn, Mass. Filed Apr. 6, 1918. Serial No. 227,117. 8 Claims. (Cl. 74—39.)

2. In steering post positioning means a steering column, a steering post, tension posts on the latter radially positioned, tension members on the column operatively connected with the tension posts and normally effective in



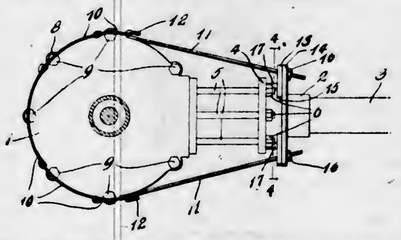
opposite directions, one tension member yielding its effectiveness while the opposite member increases its effectiveness as the steering post is turned.

1,383,349. ELECTRIC SWITCH. CLARENCE C. STIRLING, Hartford, Conn. Filed Sept. 26, 1918. Serial No. 255,738. 1 Claim. (Cl. 200—66.)



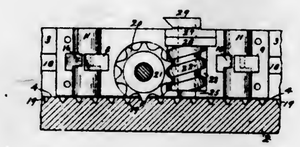
An electric switch comprising a detent having notches in its periphery, a turnable spindle coaxial with and extending through the detent, a switching member having a longitudinal slot through which the spindle turns, the switching member being capable of turning movement relatively to the spindle and also for movement in an endwise direction, and being provided with a catch to normally enter a notch in the detent, a block on the switching member and through which the spindle extends, the block having opposite flattened faces, pins on the switching member, normally engaging opposite faces of the block, a coiled spring connected respectively with the block and with the switching member in an endwise direction to carry the catch out of the notch it occupies, at the same time to stretch said spring and also to move the pins free of the flat faces of the block, the stretched spring when the catch is out of the notch imparting a snap movement to the switching member, and a second coiled spring connected with the block and also with the switching member, to move the catch into a second notch after the switching member has turned a predetermined distance.

1,383,350. VIBRATION-ABSORBING DEVICE. MONROE J. TEEL, Anadarko, Okla. Filed Aug. 16, 1920. Serial No. 403,821. 5 Claims. (Cl. 74—56.)



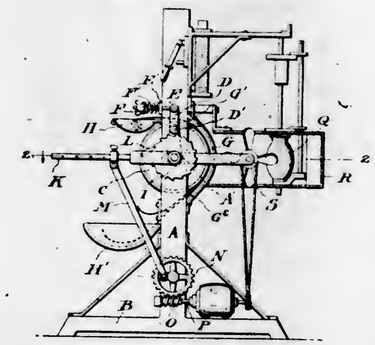
4. A brace of the character described comprising a chain of elongated pivotally-connected links, disks for fitting upon a sleeve, and draw-rods having connection with the chain and passing through openings in said disks.

1,383,351. PRINTING-PLATE HOLDER. FREDERICK M. TUACK, East Orange, N. J. Filed July 24, 1918. Serial No. 246,508. 4 Claims. (Cl. 101—388.)



1. The combination in a printing-plate holder, of a guide-bar transversely slidable therein, a latch recess in said guide-bar having opposite side lugs adapted to be engaged for the projection and retraction thereof, an operating shaft pivotally mounted in the holder and extending across the part of said guide-bar, and a latch member formed on said shaft and disposed to enter the recess of said guide-bar and engage the opposite side lugs thereof and at its opposite extremes of movement to present a bearing face for said lugs extending transversely of the path of said guide-bar.

1,383,352. ELECTRIC BLUE-PRINTING MACHINE. JAMES H. WAGENHORST, Akron, Ohio. Filed June 21, 1916. Serial No. 104,984. 1 Claim. (Cl. 95—75.)

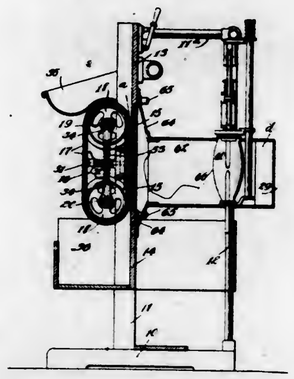


The combination with a transparent medium, of a source of light upon one side thereof and spaced therefrom, a flexible apron contacting with the opposite side of said medium, variable pressing means contacting with said apron, means for moving said apron step by step, and means for varying the distance of each step.

1,383,353. ELECTRIC BLUE-PRINTING MACHINE. JAMES H. WAGENHORST, Akron, Ohio. Filed Jan. 26, 1918. Serial No. 213,860. 8 Claims. (Cl. 95—73.)

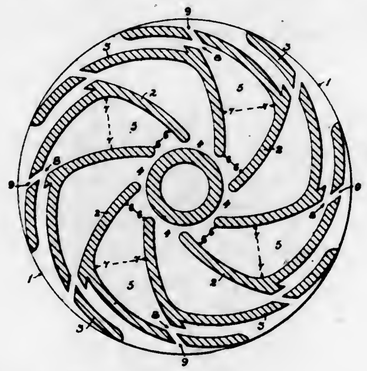
1. In a device of the kind described, the combination with a flat transparent plate of an endless fabric apron having a series of strips connected thereto, spring pressed

means adapted to contact with said strips and hold said apron in contact with one face of said glass, a source of



light upon the opposite side of said glass, and means for moving said endless apron step by step.

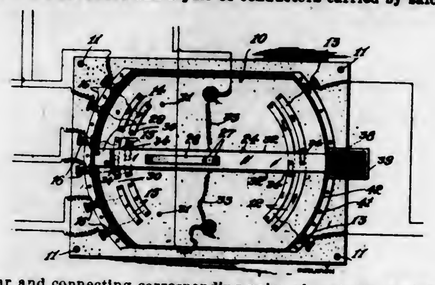
1,383,354. IMPELLER FOR CENTRIFUGAL PUMPS. JAMES WAREING and ADAM HILL, Rochdale, England. Filed Feb. 17, 1921. Serial No. 445,792. 1 Claim. (Cl. 170—141.)



An impeller for a centrifugal pump, comprising two disks having principal vanes and supplementary vanes arranged between them and at an angle to each other, the outer end portion of each supplementary vane being arranged to overlap the inner end portion of the supplementary vane next behind it, thereby forming a delivery passage, each supplementary vane being provided with an additional delivery passage at the angle formed between its middle part and the principal vane next behind it.

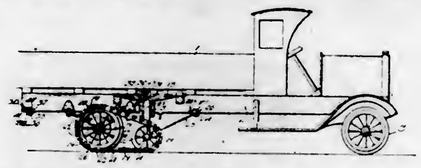
1,383,355. SWITCH FOR TELEPHONE-LINES. CHARLES WALTER WATKINS, Dorranceton, Pa. Filed Aug. 21, 1920. Serial No. 405,063. 7 Claims. (Cl. 200—5.)

1. In a switch of the type described an insulating base, a bar pivotally connected intermediate its ends with the base to swing in either a vertical or horizontal plane, pairs of contacts carried by said base upon opposite sides of said pivot points and pairs of contacts carried by the ends of said bar adapted to selectively engage the pairs of contacts on said base and a pair of conductors carried by said



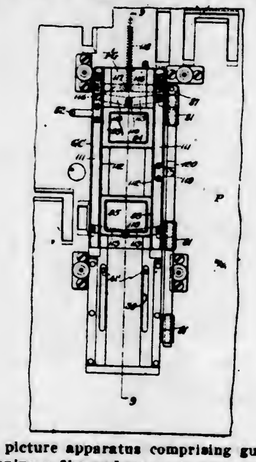
bar and connecting corresponding pairs of contacts carried thereby.

1,383,356. DETACHABLE MOTOR-TRUCK CRAWLER. JACOB J. WEIER, Chicago, Ill., assignor of one-third to Frank J. Heitmann and one-third to William A. Klatte, Chicago, Ill. Filed Nov. 25, 1918. Serial No. 264,043. 5 Claims. (Cl. 305—3.)



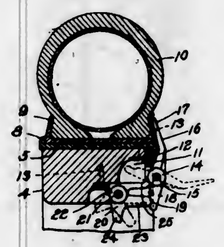
1. In a device of the kind described, a vehicle provided with driving wheels, in combination with auxiliary wheels carried by the vehicle in alinement with the driving wheels, said auxiliary wheels each being mounted upon a vertically movable standard pivotally connected to its coöperating parts, said pivotal axes being parallel to the journal axes of said auxiliary wheels, and means for swinging the auxiliary wheels on their pivoted support upward out of engagement with the road bed, or permitting them to extend vertically downward to contact therewith.

1,383,357. MOTION-PICTURE CAMERA. WILLIAM BURTON WESCOTT, Wellesley, Mass., assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 11, 1916. Serial No. 119,377. 32 Claims. (Cl. 88—17.)



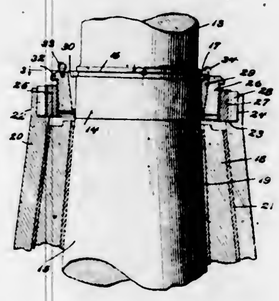
1. Motion picture apparatus comprising guides for laterally positioning a film and means to cause said guides to move equally and oppositely in a lateral direction and to prevent relative movement of said guides in a longitudinal direction.

1,383,358. RIM FOR VEHICLE-WHEELS. CARL G. WESTERBERG, Monessen, Pa. Filed July 27, 1918, Serial No. 247,046. Renewed Nov. 23, 1920. Serial No. 426,105. 3 Claims. (Cl. 301—29.)



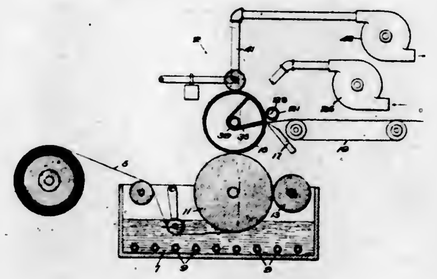
1. The combination with a felly, of a felly rim having an abutment, a demountable rim surrounding said felly, a rim engaging said abutment, a plurality of pivotally mounted levers on said felly, the upper ends of said levers engaging said demountable rim, and bell cranks mounted on said felly, one of the arms of said bell cranks engaging the lower ends of said levers below the pivotal points of said levers and on the inner sides thereof.

1,383,359. FASTENING MEANS FOR THE HEAD OF GYRATORY CRUSHING-MACHINES. WILLIAM S. WESTON, Columbia, S. C. Filed May 19, 1920. Serial No. 382,621. 13 Claims. (Cl. 64—48.)



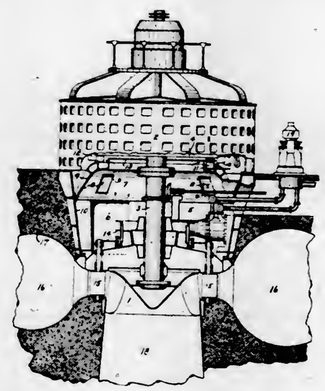
1. In a device of the class described the combination with a crusher shaft having the usual tapered portion, a crusher head on said tapered portion, two concentric members freely separable by longitudinal movement in one direction having transversely extending spiral engagement against movement in the other direction surrounding said shaft at the upper portion of said head, the outer member being positioned for and adapted to bear downward against a portion of said head, detachable means for connecting said outer member and the portion of the head against which it bears against relative rotation, and separate wedging means securing said inner member to said shaft against rotation thereon and against movement longitudinally of the shaft away from said head, the spiral connection of said members being such that any tendency of the outer member to turn in the inner member in the direction of gyration will tend to cause the outer member to move downward on the inner member against said head.

1,383,360. PAPER-CRINKLING APPARATUS. WILLIAM M. WHEILDON, Ashland, Mass., assignor to Edward H. Angier, Framingham, Mass. Filed Aug. 6, 1920. Serial No. 401,743. 6 Claims. (Cl. 92—69.)



1. Paper crinkling mechanism comprising a paper-receiving roll and a coöperating crinkling element, in combination with means for directing a blast against the roll to hold the paper thereagainst as it advances to said element, the roll having grooves to permit the escape of air from beneath the paper.

1,383,361. ENERGY-TRANSLATING DEVICE. WILLIAM MONROE WHITE, Milwaukee, Wis. Filed Sept. 5, 1918. Serial No. 253,110. 22 Claims. (Cl. 290—52.)

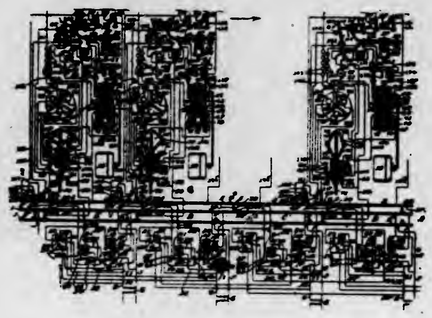


8. In combination, an energy translating device, an energy absorbing device associated with said translating device, a brake for said devices, said brake comprising a plurality of braking elements coactable directly with one of said devices, an upright wall forming an inspection pit between said devices, and a single brake support secured to said wall and extending laterally therefrom to sustain all of said brake elements.

1,383,362. TRAIN SIGNALING AND STOPPING MECHANISM. FRANK C. WILLIAMS, Philadelphia, Pa., assignor to The Safety Block Signal Company, a Corporation of Delaware. Filed Oct. 21, 1916. Serial No. 126,872. 27 Claims. (Cl. 246—31.)

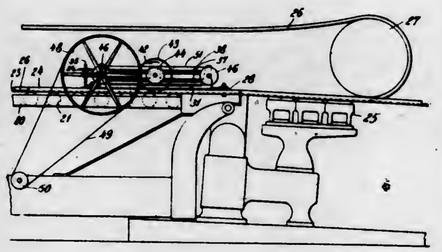
1. The combination of a circuit for supplying the driving energy to a train in a system and operating a train

stopping mechanism carried by the train, said circuit including certain train stopping sections, means to energise



or deenergize said stopping sections from said main propulsion line and block controlled circuits for controlling said means.

1,383,363. FIBER-CROSSING APPARATUS FOR PAPER-MACHINES. GEORGE STANFORD WITHAM, Jr., Hudson Falls, N. Y., assignor to Union Bag and Paper Corporation, a Corporation of New Jersey. Filed Apr. 14, 1919. Serial No. 289,859. 13 Claims. (Cl. 92—44.)



1. A fiber deflecting apparatus for paper machines comprising means lying in the pulp stream at a point whereat a large quantity of the water has been removed and extending obliquely to the direction of travel of the stream for producing a substantially permanent crossing effect upon the fibers as they pass by said means.

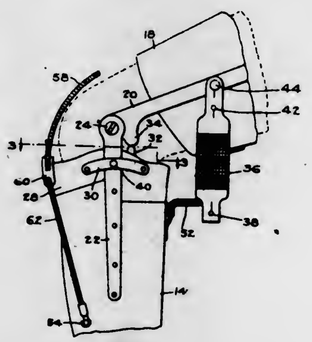
1,383,364. ARTIFICIAL LIMB. OSCAR E. WORMAN, Minneapolis, Minn. Filed Mar. 8, 1920. Serial No. 364,082. 35 Claims. (Cl. 3—3.)

2. An artificial limb comprising a shank member and a thigh member pivoted together to form a knee joint, a non-elastic member attached at its upper end to the knee portion of the thigh member, a roller secured within the front portion of the shank member, said non-elastic member extending over said roller, an elastic member secured at one end to said non-elastic member, a bracket secured within the rear portion of the shank member, a slidable member mounted on said bracket, the other end of said elastic member being attached to said slidable



member, and means operable from outside the shank member for adjusting the tension of said elastic member.

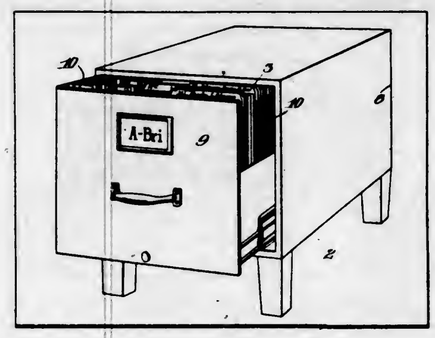
1,383,365. ARTIFICIAL LIMB. OSCAR E. WORMAN, Minneapolis, Minn. Filed Mar. 8, 1920. Serial No. 364,083. 20 Claims. (Cl. 3—3.)



1. An artificial limb comprising a shank member, a slip-socket, means for supporting said socket for vertical movement in the upper end of said shank member, knee joint straps secured to said shank member, and transverse strips attached to said socket, said strips passing over said knee joint straps whereby said socket is guided.

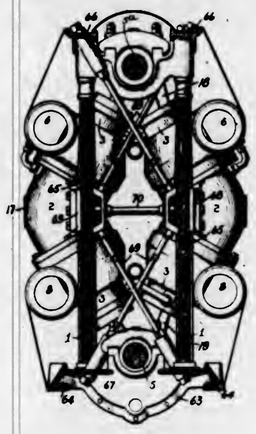
1,383,366. BOOK OR FOLDER. ELBERT B. M. WORTMAN, Rochester, N. Y., assignor to Yawman and Erbe Mfg. Company, Rochester, N. Y., a Corporation of New York. Filed July 10, 1918. Serial No. 244,161. 4 Claims. (Cl. 283—1.)

1. A book or folder having a plurality of pages collectively representing the guides and subdivisions of an office filing system, each page comprising a base portion and a profile portion, the profile portion bearing a repre-



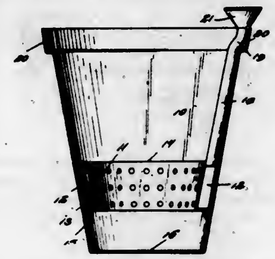
sentation of one or more units of the system and being coincident in outline with said representation.

1,383,367. INTERNAL-COMBUSTION ENGINE. LEON WYGODSKY, Baltimore, Md., assignor to Baltimore Oil Engine Company, Baltimore, Md., a Corporation of Delaware. Filed Aug. 22, 1917. Serial No. 187,662. 26 Claims. (Cl. 123—58.)



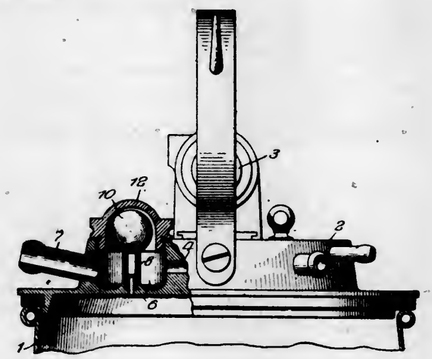
1. An internal combustion two-cycle engine, comprising two crank shafts, a cylinder structure comprising two pistons working in the same cylinder structure and connected one to one crank shaft, and the other to the other crank shaft, said pistons arranged to approach each other within the cylinder structure closely, at the inboard limits of their strokes, the cylinder structure comprising inlet and outlet ports arranged to be uncovered, the one by the one piston, and the other by the other piston, and comprising also means for introducing air within said cylinder structure between said pistons and means of introducing fuel at a determined point of stroke between said pistons, and means for insuring synchronous rotation of said two crank shafts.

1,383,368. SELF-WATERING FLOWER-POT. WILLIAM THOMAS AMBROSE, Memphis, Tenn. Filed June 5, 1920. Serial No. 386,693. 1 Claim. (Cl. 47—19.)



A water container of the character described including spaced inner and outer continuous walls, a bottom and a top, said inner wall being perforated and a filling tube communicating with said container and projecting from the top thereof.

1,383,369. MILKING-MACHINE. HENRY B. BABSON, Chicago, Ill., assignor to Pine Tree Milking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 9, 1920. Serial No. 357,342. 3 Claims. (Cl. 31—101.)

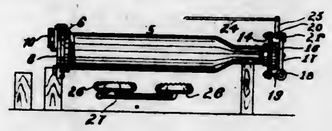


1. A milking machine having a milk pail provided with a cover having an eduction passage for the exit of the air from the pail and a chamber from which said passage leads, a tube leading from the under side of the cover to a point considerably above the floor of said chamber, and a floating check valve detached from its surroundings and resting upon the top of said tube.

2. A milking machine having a milk pail provided with a cover having an eduction passage for the exit of the air from the pail and a chamber from which said passage leads, a tube leading from the under side of the cover to a point considerably above the floor of said chamber, a ball resting upon the top of said tube, and means for holding said ball loosely upon said tube.

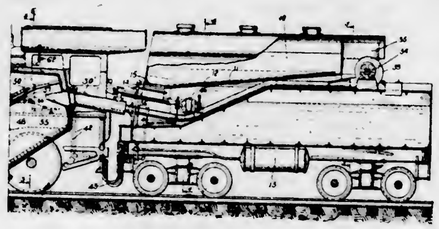
3. A milk trap for the pail covers of milking machines having a chamber in the cover and an eduction passage leading from a point near the floor of said chamber, a tube in said chamber spaced from the walls thereof, said tube communicating with the inside of the pail and terminating considerably above the floor of the chamber, a ball resting upon the upper end of said tube and a concave cap at the top of the chamber spaced from the ball sufficiently to permit it to move relatively to the tube and being close enough to prevent the center of gravity of the ball from falling outside the outer diameter of the tube.

1,383,370. PROCESS OF SPLITTING MICA. GEORGE J. BANCROFT, Denver, Colo. Filed Mar. 4, 1919. Serial No. 280,570. 5 Claims. (Cl. 125—24.)



1. The herein described disintegrating process, consisting in heating water-soaked material in a closed container until the desired pressure is attained, and opening the container to release said pressure suddenly.

1,383,371. APPARATUS FOR BURNING PULVERIZED FUEL IN LOCOMOTIVES. HENRY R. BARNHURST, deceased, Catasauqua, Pa., by Henry G. Barnhurst, administrater, and Harry R. Collins, Allentown, and Henry G. Barnhurst, Catasauqua, Pa., assignors to Fuel Savings Company, Allentown, Pa., a Corporation of Pennsylvania. Filed Mar. 25, 1914. Serial No. 827,201. 27 Claims. (Cl. 110—104.)



4. In a system for burning pulverized fuel in locomotives, the combination of a burner tube carried entirely by the locomotive, fuel supplying means and air supplying means both carried entirely by the tender and both discharging directly into said burner tube but being free from mechanical connection therewith, thereby permitting relative movement of tender and locomotive.

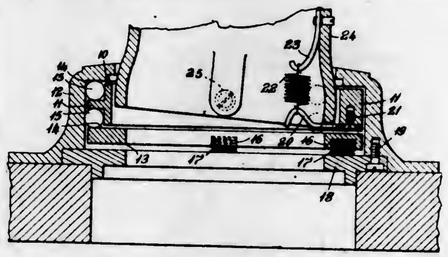
8. In a furnace for burning comminuted fuel, the combination of a combustion chamber having a plurality of its bounding walls inwardly sloped, said combustion chamber having an opening at the top for the discharge of products of combustion and a fuel and air supply twyer discharging downwardly into said combustion chamber from the upper part thereof, and adjacent to said top opening.

17. In a furnace for burning comminuted fuel, the combination of a combustion chamber having a plurality of its bounding walls downwardly and inwardly sloped for the major portion of their extent, and which is unobstructed and open at top for the discharge of products of combustion, and a fuel and air supply twyer discharging downwardly thereinto from the upper portion thereof.

21. In an apparatus for burning pulverized fuel, the combination of mechanism for conveying pulverized fuel for delivery to a boiler furnace, mechanism for supplying a blast of air to said fuel, power-operated means for independently actuating said mechanisms, means for exhausting the gases of combustion, and manually-operable means for independently controlling the operation of said conveying and supplying mechanisms and said exhausting means.

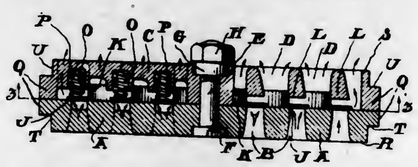
1,383,372. BALL-BEARING DEVICE. SHULAR BAUM, Utica, N. Y. Filed May 21, 1920. Serial No. 383,100. 6 Claims. (Cl. 64—49.)

4. In a ball-bearing, in combination, an upper stationary member, an intermediate stationary member, a revolvable member having an annular flange positioned between the upper stationary and the intermediate stationary member and forming race-ways therewith, a tone-arm carried by the revoluble member, a lower stationary member and resilient means between the intermediate stationary



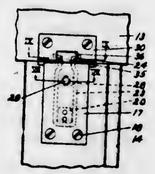
member and the lower stationary member whereby the upper stationary member, the revoluble member, the flange and the intermediate stationary member will be maintained in constant abutment with balls within the race-ways.

1,383,373. VALVE. LEWIS CONDICT BAYLES, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed July 6, 1920. Serial No. 394,192. 5 Claims. (Cl. 251—144.)



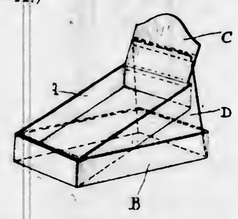
1. A valve construction comprising a valve seat having an annular port, a valve constructed of one piece of sheet metal and comprising a body portion consisting of a flat ring, adapted to seat over said port and having one edge formed at right angles to the body portion to constitute a guide flange, a guard for the valve, and continuous guiding means on the guard located over the body portion of the valve and coöperating with the said guide flange to guide the valve and limit its lift.

1,383,374. VEHICLE-BODY. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed June 4, 1917. Serial No. 172,740. 6 Claims. (Cl. 296—45.)



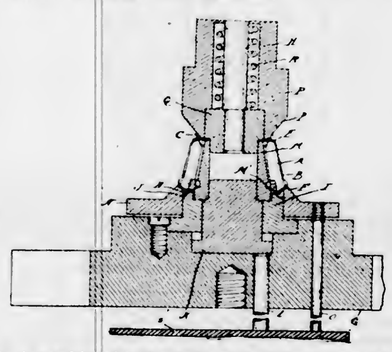
1. In a vehicle body provided with a body portion and a top portion, the combination therewith of a demountable pillar detachable from the body and top portions by a bodily lateral movement relative thereto without tilting movement of the pillar, and means to secure said pillar in tensioned position between said body and top portions, comprising an element of a separable fastener secured to said body and top portions, respectively, a coöperating element secured to either end of said pillar, and an operating member for forcing said coöperating elements into engagement with the elements on the body and top portions, said coöperating elements being constructed and arranged to automatically move out of such engagement when released by said operating member.

1,383,375. DISPLAY-BOX. GEORGE M. BILGER, Tyrone, Pa. Filed Nov. 4, 1919. Serial No. 335,052. 2 Claims. (Cl. 206—44.)



1. A display box comprising a box portion, a cover for the box, a card hinged along one edge portion to the free edge portion of the box, a support greater in length than the card, one end of the support being adapted to engage the cover when the cover is disposed beneath the box, the entire opposite end of the support being hinged to one face of the card and adapted to be folded inwardly of the box and upon the card beneath the cover.

1,383,376. MACHINE FOR CLENCHING ROLLER-BEARING CAGES. JEREMIAH BINGHAM, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 4, 1917. Serial No. 194,678. 5 Claims. (Cl. 153—21.)



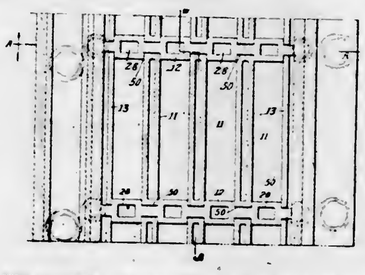
1. A machine for the purpose described, comprising a bed, an annular conical die member supported thereon, a work support arranged concentric with said annular die member above the same, a resilient yieldable bearing for said work support, an upper conical die member arranged concentric with said lower die member and work support, means for holding the work in place and movable relative to said bed, and means for depressing said work holding means and upper die member, whereby the work is clamped in place and an operation is first performed on the upper portion of the work and the latter with its support is then carried downward to perform an operation on the lower end of the work.

1,383,377. PEN-EXTRACTOR. EUSTON E. BLACK, Alligator Pond, Jamaica, British West Indies. Filed Aug. 17, 1920. Serial No. 404,044. 1 Claim. (Cl. 120—97.)

A pen extractor including a barrel equipped with a pivotally mounted clamping lever, means mounted on the barrel to normally hold the lever from movement, means mounted on the barrel to engage the penholder for preventing relative movement of the barrel and holder, and means to facilitate movement of said barrel on said holder at the option of the user.

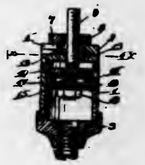


1,383,378. CELL FOR RING-FURNACES. JAMES D. BLACK, Badin, N. C., assignor to Aluminum Company of America, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 9, 1920. Serial No. 357,133. 5 Claims. (Cl. 25—134.)



1. The process of assembling a furnace having end walls and longitudinal partitions, which comprises interposing solid material between the ends of said partitions and said end walls, and removing said material by the application of heat.

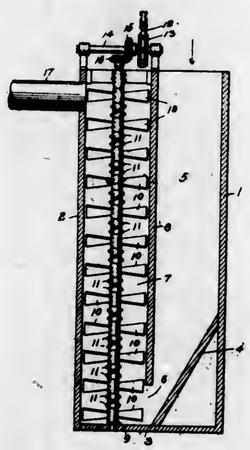
1,383,379. GREASE-CUP. JOHN B. BLAIN, Rochester, N. Y. Filed Apr. 27, 1918. Serial No. 231,219. 1 Claim. (Cl. 184—45.)



In a grease cup, the combination of a cylinder, a piston mounted to slide in said cylinder, a packing carried on the under side of said piston, an expansible packing ring having a conical opening and being angularly split at one side thereof mounted below said packing, a conical disk adapted to engage into the conical opening in said packing ring, a stem passing through said conical disk and means to prevent the movement of said disk on said stem away

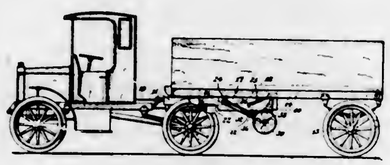
from said packing ring, said disk being adapted to be forced to slide on said stem into the conical opening in said packing ring by the grease contained in said cylinder on the compression thereof by said piston.

1,383,380. SLIME-PUMP. SAMUEL L. BOGGS, Ivanhoe, Va. Filed Feb. 27, 1920. Serial No. 361,697. 2 Claims. (Cl. 253—182.)



1. In a flotation machine, the combination of an inclined bottom, a vertical casing situated at the foot of an inclined bottom and having an opening adjacent to the base of said incline, a shaft in the casing, paddles on the shaft adapted to lift the liquid through the casing, and means to actuate the shaft.

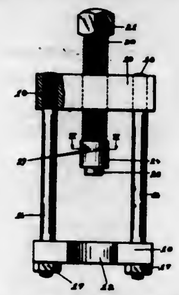
1,383,381. SEMITRAILER. ANDREW J. BORST, JR., Buffalo, N. Y. Filed June 19, 1919. Serial No. 305,287. 32 Claims. (Cl. 280—33.1.)



1. A supporting mechanism for trailers, comprising a supporting element, and slidable mechanism connected to said supporting element and adapted to be actuated by a tractor to move said supporting member into non-supporting position when connecting the trailer to the tractor.

1,383,382. STEERING-WHEEL-SPIDER PULLER. CARL P. BROCKWAY, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 5, 1917. Serial No. 194,906. 4 Claims. (Cl. 29—85.)

1. A device of the class described, comprising a base member provided along its edges with a plurality of notches, a bar provided with a screw threaded therein, and means for supporting the bar in such a manner as to



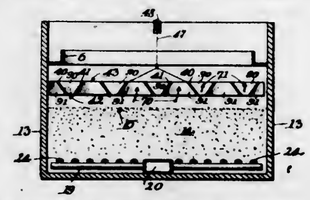
position the screw in line with any one of the various notches.

1,383,383. CARRIER OR TROLLEY. FRANKLIN D. BROGA, Syracuse, N. Y. Filed Oct. 7, 1919. Serial No. 329,176. 7 Claims. (Cl. 105—151.)



1. A carrier comprising a frame, a load carrying member depending from the frame and movable relatively thereto, and means for holding the trolley wheel on the track, said means being operable by the movement of said member, substantially as and for the purpose specified.

1,383,384. FILTER. CHARLES A. BROWN, Lorain, Ohio, assignor of one-third to Geo. G. Earl and one-third to Albert B. Wood, New Orleans, La. Filed Aug. 25, 1916. Serial No. 116,775. 17 Claims. (Cl. 210—130.)

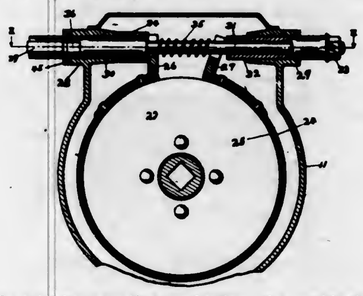


11. In a filter, the combination of a filter bed composed of particles of sand or like material having a normal filtering level below the top of the filter, means for introducing at or near the bottom of the filter bed a supply of wash water under conditions under which in passing upward through the filter it carries with it part of the way

at least the particles composing the filter bed and any impurities contained therein, means located above the normal filtering level of the filter bed comprising a plurality of passages for the wash water, some of which are contracted and some of which are expanded from bottom to top in the line of flow of wash water through the filter, said passages being alternated so that on each side of each contracting passage there is an expanding passage, and on each side of each expanding passage there is a contracting passage, a wash trough in said filter and means to convey the wash water from the wash trough away from the filter.

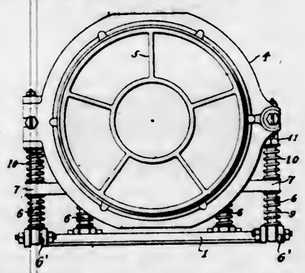
17. In filtering apparatus, a box, a bed of sand therein, a wash trough above said bed, conduits in said bed, means for admitting water above said bed and for withdrawing it through said conduits, means for sending wash water in a reverse direction through said conduits and said sand, a plurality of spaced troughs arranged between said bed and said wash trough with the apices extending downwardly, said troughs having narrow slits in the apices, the walls of adjacent troughs forming passages that converge upwardly, whereby the major part of the wash water passes through said passages and deposits the sand in said last mentioned troughs.

1,383,385. TRANSMISSION-BRAKE-OPERATING MECHANISM. GARNET C. BROWN, Dayton, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 9, 1918. Serial No. 253,239. 15 Claims. (Cl. 188—77.)



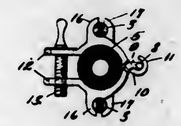
1. In a brake operating mechanism, the combination of a support, a brake member, a gripping element for said brake member, and means reversible upon the support for effecting operation of the gripping member in opposite directions.

1,383,386. MOUNTING FOR HEADLIGHTS. FRANK BUCHANAN, Syracuse, N. Y. Filed Aug. 27, 1919. Serial No. 320,083. 4 Claims. (Cl. 240—90.)



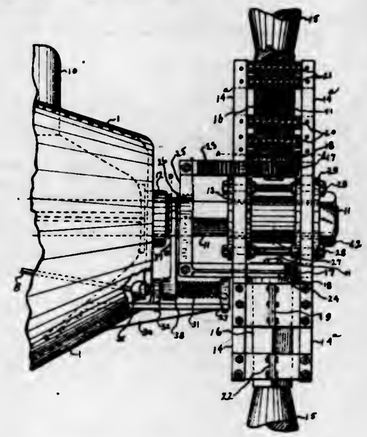
1. A mounting for headlights comprising a base having a plurality of upright posts pivoted thereto and connected to the body, and spring means supporting the body and arranged to yieldingly resist pivotal movement of the posts, substantially as and for the purpose specified.

1,383,387. BRUSH AND MEANS FOR ATTACHING SAME TO HOSE OR HANDLES. EDWIN S. CALKINS, Solvay, N. Y., assignor to Milton E. Davis, Canastota, N. Y. Filed May 22, 1920. Serial No. 383,554. 1 Claim. (Cl. 306—1.)



The combination of a brush having a pair of rearwardly extending arms, and a clamp for attaching said arms to a part serving as a handle, the clamp comprising a body mountable on said part, and having three lugs on each of two opposite sides thereof, for providing a passage for one of said arms, two of such lugs being spaced apart in a direction lengthwise of said arms, and the other being opposed to the space between the said two lugs, the lugs being clenched onto the arms, substantially as and for the purpose described.

1,383,388. ADJUSTABLE PITCH AND REVERSIBLE PROPELLER FOR AIRPLANES AND OTHER LIGHTER-THAN-AIR SHIPS. SAMUEL W. CARTER, Omaha, Nebr. Filed Nov. 13, 1920. Serial No. 423,965. 2 Claims. (Cl. 170—163.)

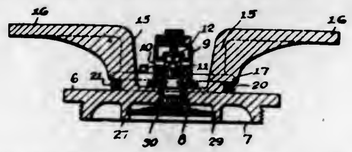


1. The combination with an airplane having a propeller drive shaft, of adjustable propeller blades therefor, said adjustable propeller blades comprising a frame rigidly secured to the propeller shaft, a portion of said propeller shaft between the frame and the fuselage being rectangular shaped, propelled blades carried by said frame, said propeller blades having their inner end rotatably mounted in spaced antifrictional bearings carried by the frame, the inner ends of said propeller blades being provided with gears, a frame slidably mounted on the rectangular portion of the propeller shaft, rack bars carried by said frame and meshing with the gears on the propeller shafts, and means for moving the slidable frame carried by the rectangular shaped portion of the propeller shaft from a point within the cock-pit.

1,383,389. TANK CLOSURE AND VENT. AUGUSTINE DAVIS, Jr., Covington, Ky. Filed Apr. 3, 1919. Serial No. 287,218. 5 Claims. (Cl. 220—44.)

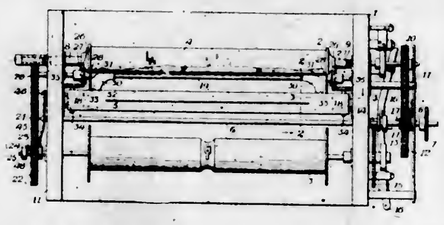
3. A screw closure for tank filling-openings comprising a disk having a central aperture with a vertical upwardly-

projecting vent-plug therein, a circumvallation integral with the disk about the base of the vent-plug, and reversely-disposed horn-handles rising integrally from said



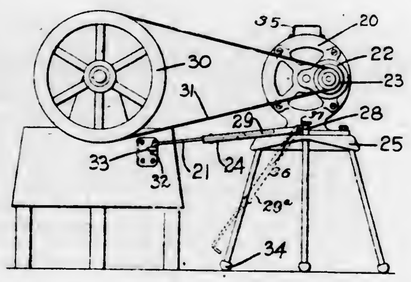
circumvallation at opposite sides of the vent-plug, said circumvallation being interrupted at one or more points to afford escape ports for the area around the vent-plug.

1,383,390. AUTOMATIC TRACKING DEVICE. WILFRED DUPRÉ, Worcester, Mass., assignor of one-half to Frederick A. Moore, Foxboro, Mass. Filed Apr. 1, 1918. Serial No. 225,986. 9 Claims. (Cl. 84—137.)



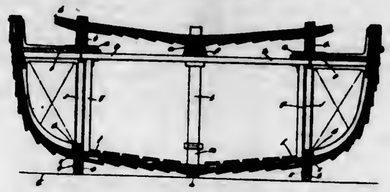
1. The combination with a tracking device for a perforated traveling music sheet and a tracker bar, of means for controlling the lateral deflection of the music sheet as it is moved over the tracker bar, comprising a rotatable shaft extending lengthwise the tracker bar and parallel therewith, means for rotating said shaft during the playing of a piece, means actuated by the lateral deflection of the music sheet for imparting a longitudinal movement to said shaft, and means actuated by the rotation of said shaft for restoring the normal relation of the music sheet and the tracker bar.

1,383,391. PORTABLE POWER UNIT. ERNEST DICKEY, Dayton, Ohio, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio, a Corporation of Delaware. Filed Mar. 26, 1917. Serial No. 157,564. 17 Claims. (Cl. 64—52.)



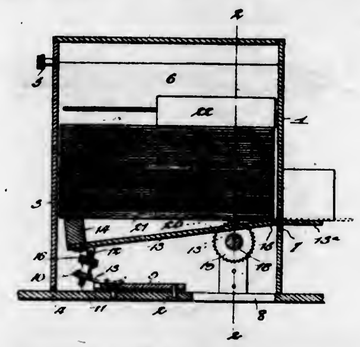
1. In combination with a power device, of a spacing and belt tightening device comprising spacing members, one of said members adapted to be attached to a work machine while the other is pivotally mounted on the power device permitting the spacing device to extend in a plurality of directions from said power device; and means for securing said spacing members together.

1,383,392. BOAT AND THE LIKE. FRANK JAMES ELVY, Catford, London, England. Filed Nov. 4, 1920. Serial No. 421,635. 4 Claims. (Cl. 9—8.)



1. A boat having a central keel, side keels extending fore and aft in vertical planes and downwardly at least as far as the level of the bottom of said central keel, keelsons above each of said side keels, thwarts, supports vertically above each of said side keels, said supports being secured between said keelsons and said thwarts and adapted to transmit directly to said keelsons any weight on said thwarts.

1,383,393. TICKET-DISPENSING APPARATUS. IRVING J. FARROW, New York, N. Y., assignor of one-half to Arthur J. Koehler, New York, N. Y. Filed Oct. 4, 1920. Serial No. 414,712. 1 Claim. (Cl. 211—20.)



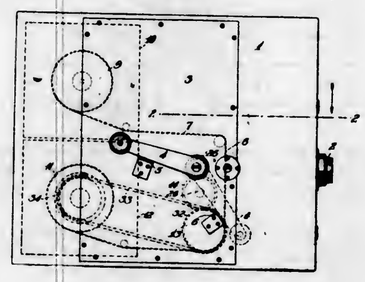
In a device of the class described, the combination of a frame adapted to contain a pair of parallel columns of tickets, and a ticket feeding device adapted to be operated by the withdrawal of a ticket of one of said columns for effecting the partial ejection of a ticket of the other of said columns.

1,383,394. BOX FOR CONTAINING FACE-POWDER OR THE LIKE. ADA FISHER, London, England. Filed Apr. 30, 1920. Serial No. 378,009. 1 Claim. (Cl. 132—82.)



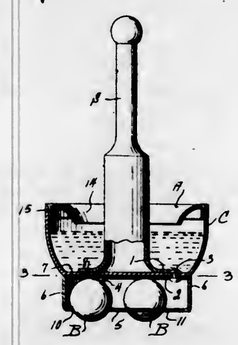
A toilet powder receptacle comprising a box proper and a puff receptacle adapted to normally rest upon the upper surface of the powder contents of the box, said puff receptacle comprising a sieve having a peripheral frame of a diameter less than the inside diameter of the said box, a puff retaining rim or frame permanently secured to said sieve frame, so as to constitute a receptacle having a perforated base which receptacle is a tight sliding fit within the said box, substantially as specified.

1,383,395. PHOTOGRAPHIC EXPOSING APPARATUS. WILLIAM F. FOLMER, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 8, 1919. Serial No. 270,109. 4 Claims. (Cl. 95—34.)



1. In a camera, the combination with a film feeding roll and gearing including a ratchet for turning said roll, of a shaft having an operating crank thereon, a pawl on said shaft coöperating with the ratchet to drive the feed gearing intermittently in one direction, a shutter mechanism, and a shutter winding and releasing member driven in two direction by the operating shaft but adapted to wind and then to release the shutter during its movement in only one of said directions.

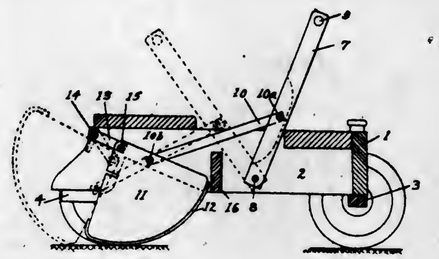
1,383,396. CASTER. JACOB J. FRIEND, Everett, Mass. Filed Oct. 19, 1920. Serial No. 418,077. 6 Claims. (Cl. 16—45.)



5. A caster comprising a body member, a plate underlying said body member and provided with a flange disposed toward the body member, headed members depending from the body member, the free marginal portion of the flange of the plate being provided with an inwardly directed flange having notches through which the headed members are adapted to extend, said headed members underlying the second named flange upon partial rotation of the plate, and a ball partially extending through the plate.

1,383,397. TOY VEHICLE. CLAUDE J. GORDON, Saginaw, Mich. Filed May 7, 1920. Serial No. 379,488. 3 Claims. (Cl. 208—38.)

1. In a vehicle of the class described, a wheeled body comprising side members spaced apart, a suspension link pivotally secured at one end to said body, a propelling cam pivoted at its upper end to the other end of said link, a thrust link pivoted to said cam, and means for actuating



said thrust link, whereby to force said cam rearwardly and downwardly on the rearward stroke of said thrust link and to lift the cam forwardly and upwardly on the forward stroke.

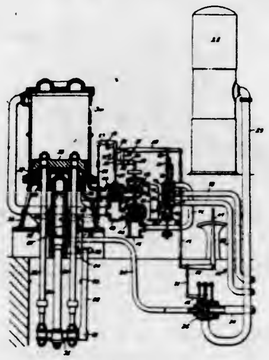
1,383,398. EXHAUST SYSTEM FOR SUBMARINE VESSELS. HUGO E. GRIESHABER, Groton, Conn., assignor to Electric Boat Company, a Corporation of New Jersey. Filed Aug. 14, 1920. Serial No. 403,578. 7 Claims. (Cl. 114—16.)

1. A submarine boat having a hull, an internal combustion engine therein, an exhaust passage for the engine leading outside the hull, a movable intermediate section in this exhaust passage designed to be moved out of alinement with the rest of the passage, and a closure designed to close the end of the exhaust passage when the movable section is moved out of alinement.

1,383,399. STEAM HYDRAULIC INTENSIFIER. THOMAS WILTON HAND, Sheffield, England, assignor to Davy Brothers, Limited, Sheffield, England. Filed Feb. 26, 1919. Serial No. 279,395. 8 Claims. (Cl. 138—17.)

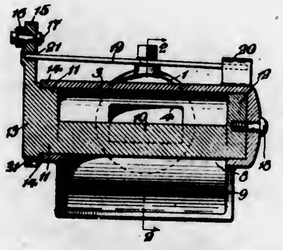
1. A steam hydraulic intensifier comprising a steam cylinder, a piston movable therein, hydraulic means connected with said piston, an inlet for live steam to said cylinder, an exhaust outlet therefrom, a steam connection between opposite ends of said cylinder, whereby the steam pressure upon opposite sides of said piston is equalized during the return stroke thereof, and means for com-

pressing exhaust steam on the working side of said piston during completion of the return stroke thereof, whereby



such compressed exhaust steam is met by the live steam admitted to the cylinder for the next working stroke of the piston.

1,383,400. CUT-OUT FOR INTERNAL-COMBUSTION ENGINES. HENRY W. HARTEL, Philadelphia, Pa. Filed June 9, 1917. Serial No. 173,705. 2 Claims. (Cl. 251—105.)

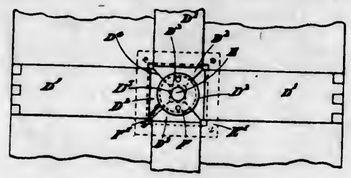


1. A cut-out for internal combustion engines, comprising a casing having an inlet and an outlet, an exhaust port, an exhaust deflector in proximity to said port, and a cylindrical bore, one end of which is closed and the other open, a valve having a head at each end and its body portion forming a segment of a cylinder, a fastening device passing through the closed end of the bore and connected with the juxtaposed valve head, and means to actuate said valve.

2. A cut-off for internal combustion engines, comprising a casing having an inlet and an outlet port, an exhaust port and a cylindrical bore, one end of which is open and the other end of which is closed, a rotatable valve in said bore having an inner and an outer valve head and the portion therebetween forming the segment of a cylinder, means passing through the closed end of said bore and connected with the juxtaposed valve head to retain the valve in position, said outer valve head having an arm projecting therefrom, and a spring bar one end of which is connected to said arm and the other end of which engages a fixed portion of the casing.

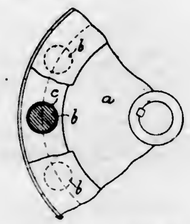
1,383,401. PACKING-CASE. LIONEL WORSLEY HUGHES, London, England. Filed Feb. 8, 1921. Serial No. 443,428. 4 Claims. (Cl. 217—56.)

1. A packing case comprising a body and a lid, a metallic strengthening band secured to the said body, fastening strips hinged to the upper ends of said band, tapered plates on the ends of said strips adapted when closed down on the lid to leave a space between them, a threaded rod on the lid coinciding in position with the space left between the tapered plates, and a cap screwed on the



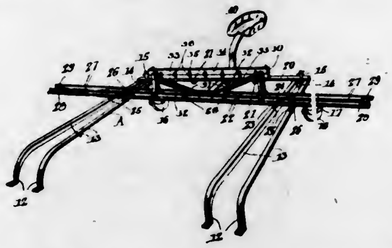
threaded rod and overlapping the free ends of the tapered plates and provided with means for securing it against accidental loss.

1,383,402. TOOTHED GEARING. LEMUEL JONES, Aylesbury, England. Filed July 30, 1920. Serial No. 400,042. 3 Claims. (Cl. 74—41.)



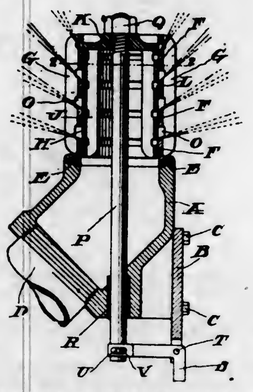
1. A method of forming the engaging surfaces of and mounting a toothed element to mesh with a roller-toothed element, consisting in generating the crown parts of the engaging surfaces of said teeth by rolling a generating circle of the diameter of said rollers along a line tangential with the pitch line of said toothed element with the center of said generating circle constantly on a remoter line equivalent to the pitch line of the axes of said rollers of the roller toothed element, and mounting said toothed element with its pitch line tangential to the pitch line of the axes of said rollers.

1,383,403. DRAG-HARROW CLEANER. GEORGE KENDEL, McNutt, Saskatchewan, Canada. Filed Apr. 19, 1920. Serial No. 375,031. 4 Claims. (Cl. 55—91.)



1. A harrow cleaner consisting of a truck frame having pairs of angle bars converging toward each other, the front of the bars being designed to be secured to the draw bar of a harrow, an adjustable bar connecting the rear ends of the angle bars, wheels located at the rear end of the angle bars, a pair of spaced transverse bars adjustably mounted on the angle bars, a frame on the transverse bars, guide means on the frame, and flexible means extending over the guide means adapted to be connected to the harrow sections, as and for the purpose specified.

1,383,404. SPRAY-HEAD. JOHN F. KIRGAN, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 13, 1920. Serial No. 409,913. 2 Claims. (Cl. 299—136.)



2. A spray head for spraying liquids, comprising an outer shell composed of separated rings connected by longitudinal outwardly extending ribs, an inner longitudinally movable body also composed of separated rings connected by longitudinal inwardly extending ribs, and means for adjusting said inner body longitudinally in the shell to simultaneously regulate the quantity of liquid issuing in streams through the discharge openings formed between the said rings.

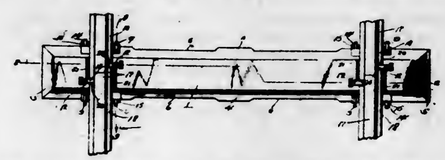
1,383,405. VEHICLE-WHEEL. KARL G. KNAPPEN, Seattle, Wash. Filed Aug. 7, 1920. Serial No. 401,868. 6 Claims. (Cl. 301—64.)



1. A wheel comprising a rim, a center having two sets of spoke members diverging toward the hub, a hub having a bearing for one set of spokes, a hub sleeve for the other set of spokes carried upon and adjustable lengthwise of the hub, and open at its outer end, said bearing member being provided with means for engaging the spokes to positively move them in both axial directions to thereby expand and contract the wheel center for engagement and disengagement with the rim, and being threaded at its outer end for the reception of a hub cap.

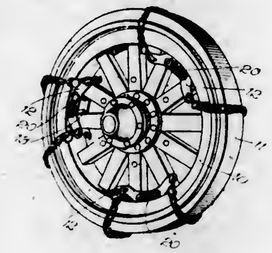
1,383,406. RAIL-CLAMP AND METALLIC TIE. SAMUEL KRISKA, Lore City, Ohio. Filed Apr. 20, 1921. Serial No. 463,087. 2 Claims. (Cl. 238—59.)

1. A rail anchor comprising in combination with a metallic tie having spaced transversely disposed key ways or channels and provided with diagonally disposed vertical pockets intersecting the channels, rail anchor members engaging the pockets and having heads overlying the base of the rail to hold the rail in position, and keys or wedges passing through the key ways or channels and intersecting



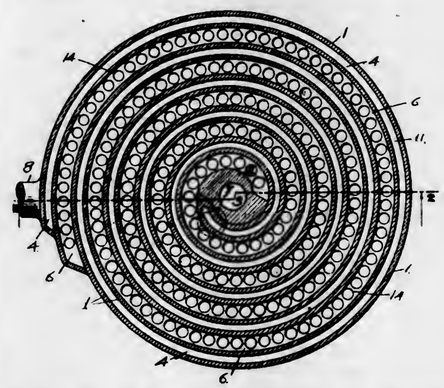
the anchors to hold them in the pockets, and means for holding the keys in the channels or key ways, fish plates for connecting two adjacent rails, said fish plates having notches to be engaged by the heads of the anchors, to prevent longitudinal movements of the rails.

1,383,407. ANTISKID DEVICE FOR VEHICLES. WILLIAM H. KRUG, Oshkosh, Wis. Filed Jan. 31, 1919. Serial No. 274,161. 5 Claims. (Cl. 152—14.)



4. Means for securing one end of an antiskid chain to a wheel, comprising a clamping bar, having a slot extending longitudinally thereof for receiving a clamping bolt, a bolt extending through said slot, a nut for said bolt, and a single means co-acting with said bar and said nut for positively locking said nut to said bolt, and for positively preventing said bolt from shifting in said slot.

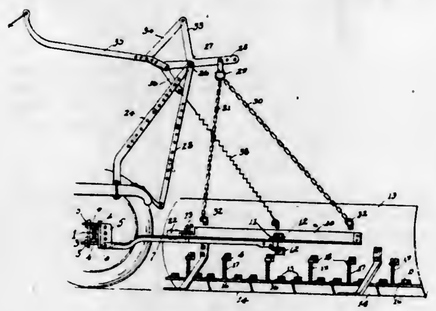
1,383,408. STEAM-GENERATOR. BENJAMIN H. LEISTER, San Francisco, Calif. Filed Nov. 7, 1918. Serial No. 261,731. Renewed Feb. 19, 1920. Serial No. 359,848. 6 Claims. (Cl. 122—261.)



1. A steam generator comprising parallel convolute walls arranged to provide alternate parallel water and

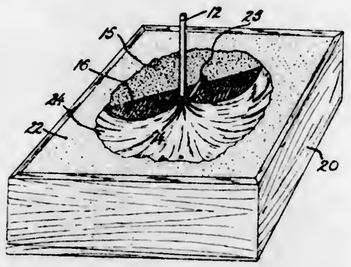
heat passages; means within the convolute water passage for providing continuous alternating channels from one end of said passage to the other; and means for trapping water at one end of said channel.

1,383,409. SNOWPLOW. MICHAEL VOLNEY LIDDELL, Springfield, Ill., assignor to Baker Manufacturing Company, Springfield, Ill. Filed Sept. 23, 1918. Serial No. 255,319. 3 Claims. (Cl. 37—49.)



1. In a device of the class described, a scraper comprising a body; a plurality of blades pivoted to the body for independent rearward swinging movement when any blade encounters a fixed and prominent obstacle, the blades presenting a substantially continuous scraping surface when in normal position; spring means for returning each blade, independently of the others, from a rearwardly swung position to a normal position; a vehicle; and means for assembling the scraper with the vehicle.

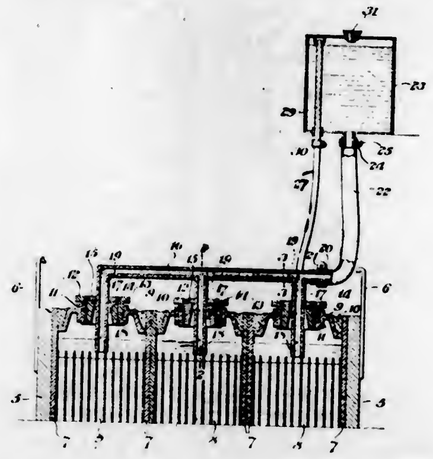
1,383,410. GARDEN-SEAT AND PROCESS OF PRODUCING SAME. LOUIS F. LIEBHARDT, Denver, Colo. Filed Jan. 20, 1921. Serial No. 438,658. 7 Claims. (Cl. 25—155.)



1. A molded seat having its upper face in the design of a leaf of a water plant, and having a standard anchored therein for support of the same.

1,383,411. BATTERY-WATER-REPLENISHING DEVICE. JAMES RUSSELL LONGSTREET, Philadelphia, Pa. Filed Dec. 10, 1920. Serial No. 429,663. 5 Claims. (Cl. 137—68.)

1. The combination with an electric storage battery in which a constant level of electrolyte is to be maintained, of a vent cap having an aperture extending therethrough, a device having a branch extending through said aperture in said vent cap, said device having a passageway for liquid extending through said branch, and a separate passageway for air having an outlet in said branch located at the level of the fluid to be maintained in said battery, a



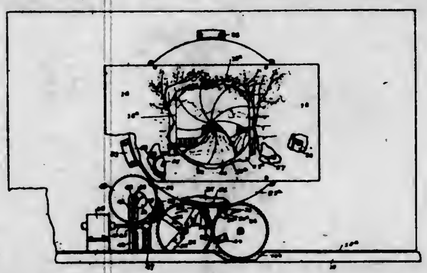
closed reservoir adapted to contain the replenishing fluid, a pipe or hose connecting the liquid passageway to the bottom of said reservoir, and a separate pipe or hose connecting the air passageway to said reservoir.

1,383,412. VEHICLE-BODY. CHARLES W. MCKINLEY, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed June 4, 1917. Serial No. 172,715. 8 Claims. (Cl. 296—45.)



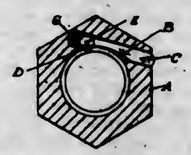
8. In combination, a body, a top, a removable pillar, slotted plates secured to the top and body, respectively, and located in the plane of said pillar when the latter is in operative position, members carried by the pillar in the plane thereof and projecting at opposite ends thereof adapted to extend within the slots formed in said plates, and means connecting the inner ends of said members operable to draw said members into engagement with the plates to clamp the pillar between the top and body.

1,383,413. ADVERTISING DEVICE. GEORGE E. MCMASTER, Bellingham, Wash. Filed Feb. 28, 1921. Serial No. 448,699. 4 Claims. (Cl. 40—30.)



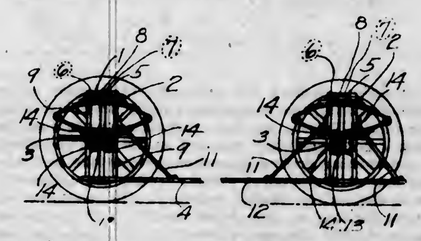
1. In an advertising device in combination, an advertisement-display board having advertisements displayed thereon, a scenic stage located on said display board, a plurality of stationary, scenery flies set on said stage having artistic designs thereon, a plurality of protractile and withdrawable scenery carriers on said stage having artistic designs thereon which blend with the designs on said stationary flies, and means to automatically protract and withdraw said scenery carriers into and out of view at recurrent intervals with intervening periods of pause.

1,383,414. NUT-LOCK AND THE LIKE. WALTER HENRY MANSELL, Grays, England. Filed Aug. 7, 1920. Serial No. 401,852. 1 Claim. (Cl. 151—25.)



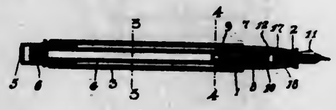
A locking device for nuts, comprising, in combination, a nut provided with a channel at a tangent to and intersecting the threaded portion of the nut, a plunger slidable in said channel in contact with the wall thereof, said plunger being bifurcated at its inner end, a locking disk mounted for rotation between the bifurcations of said plunger, a helical spring in engagement with the inner end of the plunger for normally retaining said disk in locking position, the outer end of the channel being upset into direct engagement with a portion of the plunger thereby to limit the movement of the plunger under the action of the spring, and the outer end of the plunger projecting beyond the end of the channel whereby the depression of the spring and releasing the locking disk may be accomplished from the exterior of the nut.

1,383,415. VEHICLE-BODY HANGER. ALVA MONTEL, Claypool, Ind. Filed Jan. 19, 1921. Serial No. 438,268. 1 Claim. (Cl. 280—106.5.)



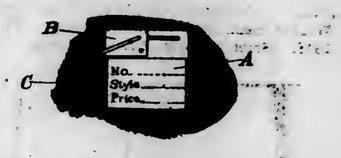
A method for suspending a vehicle body upon full elliptic springs at the ends of the axles, consisting in cross plates hingedly connecting the springs at the tops thereof; braced hangers depending from the cross plates near their ends to the sides of the axles; side bars connecting the lower ends of the hangers; brackets attached to the axles outwardly of the hangers; four rods extended between the brackets and within the hangers and parallel to the axles with two rods at each side of each axle and in vertical alinement; and rollers mounted on the rods and adapted to serve as bearings for the inner faces of the hangers.

1,383,416. DOUBLE-FLOW FOUNTAIN-PEN OR RESERVOIR-PEN. YUJI MUKOJIMA, Minowa, near Tokyo, Japan. Filed Aug. 3, 1920. Serial No. 400,988. 1 Claim. (Cl. 120—42.)



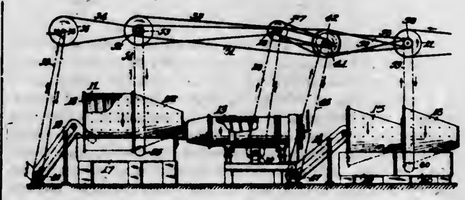
A fountain pen comprising an inner reservoir tube, an outer tube, and a head at the front ends of said tubes and comprising front and rear members pivotally connected together, said front member having a nib-receiving opening and also having conduits leading from the nib to the rear member, and said rear member having conduits respectively communicating with the interiors of said reservoir tubes, the conduits of said members being so arranged as to enable said front member, by a partial turning movement thereof, to cause ink to alternately flow from either of the reservoirs to the nib, or to be cut off therefrom.

1,383,417. MARKING-TAG. JOSEPH DARWIN NAGEL, Jr., New York, N. Y. Filed May 13, 1920. Serial No. 381,154. 12 Claims. (Cl. 40—25.)



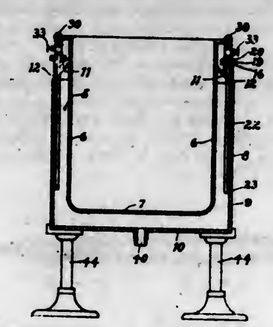
7. A marking tag comprising a body portion and an extension foldable thereon, and attaching devices consisting of a piece of wire, the ends of which comprise pins located upon one side of the tag while the central portion extends through the tag and across the opposite side thereof, and is foldable with said extension in order to separate the points of the pins.

1,383,418. MECHANISM FOR TREATING METAL ARTICLES. WILLIAM H. NEEDHAM, Worcester, Mass., assignor to Boston Pressed Metal Company, Worcester, Mass., a Corporation of Maine. Filed Oct. 20, 1919. Serial No. 332,059. 7 Claims. (Cl. 266—7.)



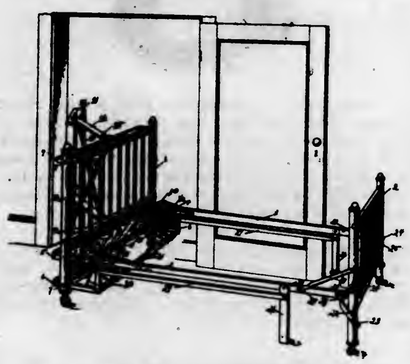
1. A mechanism for treating metal articles, comprising a rotary furnace, means to clean and deliver articles to said furnace, and means to receive, cool, oil and deliver articles from said furnace, the operation of the entire mechanism being continuous and automatic.

1,383,419. HEATING AND COOLING APPARATUS. NIELS D. NIELSEN, Elyria, Ohio. Filed Sept. 19, 1917. Serial No. 192,113. 7 Claims. (Cl. 257—212.)



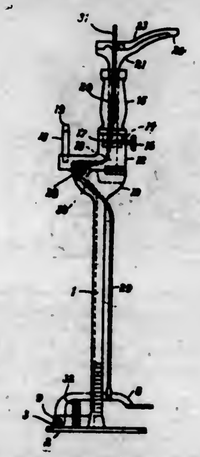
5. In apparatus for spraying a tank or vat with a fluid the combination with said tank of an apron about said tank provided with a plurality of openings, stud pipes vertically mounted about said openings, a flange about the top of each stud pipe, a tube vertically mounted in each stud pipe and extending downwardly therethrough and beyond, each tube provided with a plurality of groups of perforations, a fastening head for each tube provided with an opening into which a tube tnreads, means to removably fasten said head to said flanges, a feed pipe and means to connect said feed pipe to said tubes, and a valve controlling the supply from the feed pipe to each of the tubes.

1,383,420. NARROW-DOORWAY WALL-BED. GEORGE WILLIS PEEK, San Francisco, Calif. Filed May 29, 1918. Serial No. 238,594. 2 Claims. (Cl. 5—18.)



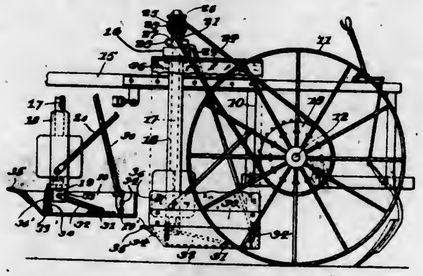
1. In a collapsible bed, the combination with a pivoted up-ending bed-frame, a lower U-shaped bed-stead support having forward extensions, vertical members attached to said extensions, a transverse bar connecting said extensions, a resilient counter-balancing mechanism comprising a toggle-joint connection on opposite side of said up-ending bed-frame and pivotally connected therewith, the lower links on said toggle-joint connections being pivotally attached with and adjacent to the outer corners of said lower U-shaped support, lateral extensions on the lower links of said toggle-joints forming brackets, a transverse bar connecting said brackets, tension springs between the oscillating and rigid transverse bars, means for restricting the movement of said up-ending bed-frame beyond a vertical position, said means comprising a transverse headboard engaging with said oscillating transverse bar.

1,383,421. SHOEMAKER'S JACK. WILLIAM PISKURAN, Elyria, Ohio. Filed Dec. 6, 1919. Serial No. 342,098. 1 Claim. (Cl. 12—123.)



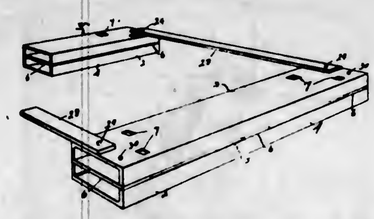
In a cobbler's jack, a channel-shaped standard, a base attached to the standard, said standard having a vertical slot adjacent the base, a reinforcing web around said slot, a plurality of teeth in the side of said web, a lever pivoted adjacent to said base and having a catch adapted to engage said teeth, a hollow L-shaped support hinged to said standard at the top, a hollow post detachably secured to said support and adapted to rotate therein, said post having openings in two sides, a last support fitted to said post, a last detachably secured to said last support, a strap extending from said lever to a point adjacent said openings, and a loop extending from the strap through said openings and adapted to pass over a shoe placed on said last and last support.

1,383,422. BOLL-WEEVIL CATCHER. ALEX PLOCH, Carpenter, Tex., assignor of seven-eighths to Theodula Ploch, Carpenter, Tex. Filed Oct. 15, 1920. Serial No. 417,182. 1 Claim. (Cl. 43—142.)



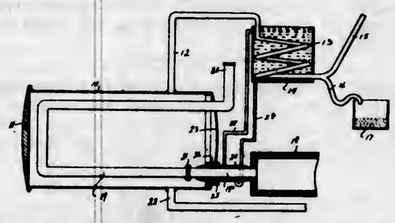
An insect catching and destroying attachment for an agricultural machine comprising a beam having depending legs carried thereby, vertical shafts disposed through the beam, a horisontal shaft mounted on the beam and driven by the machine, driving connections between the horisontal and one of the vertical shafts, driving connections between the vertical shafts, certain of said depending legs having bearings to support the lower ends of the vertical shafts, flexible elements carried by the depending legs, and insect receiving pans suspended by said flexible elements below the legs, rotary beaters carried by the vertical shafts, and plant guards carried by the pans.

1,383,423. STEEL TIE AND RAIL-FASTENER THEREFOR. WILLIAM F. PRICE, Broad Mountain, Pa. Filed Oct. 8, 1920. Serial No. 415,473. 1 Claim. (Cl. 238—72.)



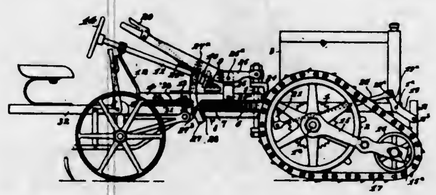
A tie comprising two opposed channels and separators positioned between the adjacent edges of said channels, said edges and separators being welded together.

1,383,424. PROTECTOR FOR THE HEATING-PIPES OF RETORTS. EDWIN E. QUINKER, Valdosta, Ga. Filed Feb. 13, 1920. Serial No. 358,450. 6 Claims. (Cl. 122—6.)



2. The combination with a wood distilling retort, a furnace spaced therefrom and a heating pipe extending from the furnace into the retort and through the wall thereof, of a water jacket entirely surrounding said heating pipe and extending through the wall of the retort, and a stuffing box carried by the wall of the retort and through which said water jacket passes, said stuffing box permitting the movement of the heating pipe and water jacket relative to the retort wall.

1,383,425. TRACTOR. ALBERT D. RAY, Cleveland, Ohio. Filed Jan. 26, 1920. Serial No. 353,969. 2 Claims. (Cl. 180—9.1.)



1. In a tractor, the combination of a supporting frame, a motor carried on said frame, main traction wheels mounted on the frame and adapted to be driven by the motor, rocker arms journaled on the axes of the main traction wheels and extending radially therefrom, auxiliary wheels journaled in said rocker arms, driving connecting means between the main traction wheels and the auxiliary wheels, compound lever mechanism connected with the frame and the rocker arms for vertically oscillating said rocker arms, rack and pinion mechanism for operating said lever mechanism, a reach member horizontally swiveled to the frame, means connected with said reach member for actuating the said rack, and coacting means connected with said reach member and the frame for horisontally oscillating the frame.

1,383,426. DRENCHING-BOTTLE. ELIJAH RHODES, Huntington, W. Va. Filed Sept. 24, 1919. Serial No. 325,966. 1 Claim. (Cl. 128—223.)

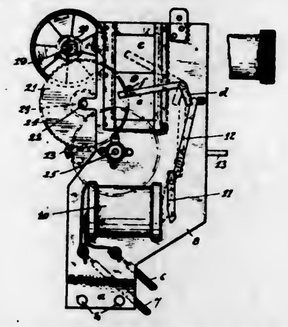


As an article of manufacture, a drenching bottle comprising an arcuate tubular member, the diameter of said member being the same at any point longitudinally thereof, whereby the contents of said member may pass unrestrictedly therethrough, a coupling threaded on one end of said tubular member, a nozzle carried by said coupling, said nozzle being slightly smaller than the tubular member, and a plug for closing the other end of the tubular member, said plug being in continuity with said arcuate tubular member.

1,383,427. POLISH FOR VARNISHED SURFACES. CHRISTIAN ROSENTHAL, Detroit, Mich. Filed Feb. 5, 1921. Serial No. 442,814. 5 Claims. (Cl. 134—24.)

1. A polish comprising a wax, a solvent therefor, banana oil, and an ingredient for rendering said banana oil miscible with the solvent.

1,383,428. ATTACHMENT FOR MOVING-PICTURE MACHINES. BYERS GILLESPIE ROSS and OLIVER BRINDLEY, Pittsburgh, Pa. Filed Sept. 18, 1919, Serial No. 324,537. Renewed Mar. 18, 1921. Serial No. 453,480. 2 Claims. (Cl. 88—17.)

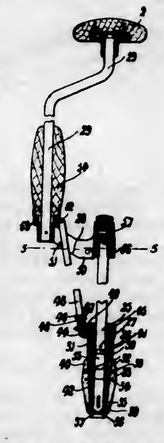


1. The combination of a pair of picture machines, each of which is provided with a magnetically controlled aperture shutter, a magnet mounted on each of said machines, means to alternately simultaneously energize one of said magnets and deënergize the other and means operated by said magnets to control said shutters.

1,383,429. SCREWDRIVER. FREDERIC WILLIAM RUSSELL, Redditch, England. Filed Aug. 29, 1919. Serial No. 320,703. 7 Claims. (Cl. 145—50.)

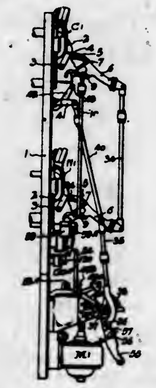
1. A screw driver comprising a spindle having a driving blade at one end, a sleeve slidably mounted upon the said spindle adapted to support the screw head, a handle loosely and slidably mounted upon said spindle and connected to said sleeve to control the relation between the sleeve and the spindle, a fixed abutment upon said sleeve, a pair of radially displaceable jaws pivotally mounted and having a limited sliding movement upon said sleeve, projections upon said jaws adapted to normally engage with the said abutment to lock the jaws against radial displace-

ment, and inwardly directed ends upon said jaws projecting within said sleeve to support the shank of the screw and adapted to be engaged by the screw head first



to move said jaw free of the said abutment and subsequently to radially displace said jaws to allow the screw head and driving blade to pass beyond the jaws when required.

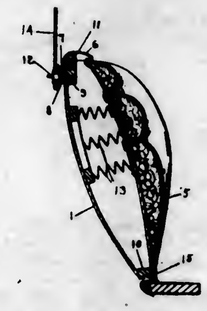
1,383,430. SWITCHING APPARATUS. WILLIAM M. SCOTT, Tredyffrin township, Chester county, Pa. Original application filed Aug. 29, 1917, Serial No. 188,717. Divided and this application filed Nov. 16, 1918. Serial No. 262,802. 45 Claims. (Cl. 200—92.)



1. The combination with an electric switch, of a motive device for actuating the same in one direction, means for causing said switch to move in opposite direction, a switch controlling the circuit of said motive device moved to position to prevent energization of said motive device when said first named switch is moved in said opposite direction, and means independent of said motive device and said first named switch for actuating said second named switch to position allowing energization of said motive device.

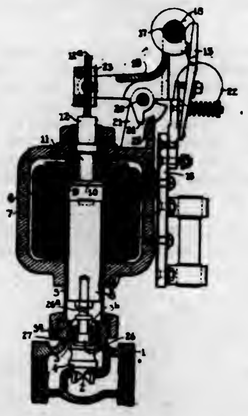
1,383,431. UPHOLSTERY DEVICE. HARRY L. SHEPLER, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 1, 1915. Serial No. 11,127. 5 Claims. (Cl. 155—184.)

1. In a seat structure, the combination of a seat back panel, a frame member having a padded roll secured to one edge thereof, an upholstered cushion spaced from the frame member at its upper side and having a flexible strip secured to the upper edge thereof, said cushion being supported independently of the padded roll to relieve the



strain on the strip, the said strip being provided with a pocket extending longitudinally thereof, a bar disposed in said pocket, and means for readily securing said bar to said frame member whereby the flexible strip will extend over said padded roll.

1,383,432. SOLENOID-OPERATED VALVE AND THE LIKE. ARTHUR SIMON, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 23, 1916. Serial No. 127,221. 8 Claims. (Cl. 137—139.)

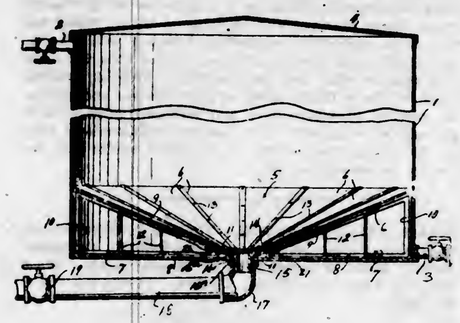


2. The combination with a device to be operated, of an operating solenoid therefor, an operative connection between said device and the plunger of said solenoid providing for initiation of the movement of said device during the latter part of the stroke of said plunger, said connection including means adapted to store energy prior to initiation of the movement of said device and to effect continued movement of said device upon initiation of movement thereof and a protective device for said solenoid operable thereby but only after a substantially full stroke of said plunger.

1,383,433. SEDIMENT RECEIVING AND DRAWING-OFF DEVICE FOR TANKS. GEORGE W. SMITH, Garber, Okla. Filed Jan. 22, 1921. Serial No. 439,221. 6 Claims. (Cl. 210—51.)

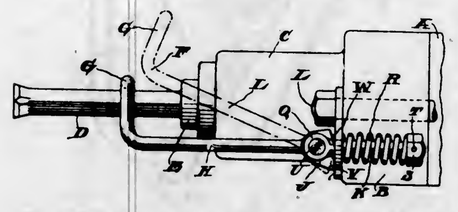
1. A sediment or refuse pan, comprising a conical false bottom for a fluid tank, radial frames engaging the bottom

of the tank and supporting the false bottom, and a drawing off pipe passing through and connected to the bottom



of the tank and to the false bottom, whereby the refuse or sediment may be easily and quickly removed.

1,383,434. DRILL-STEEL RETAINER. WILLIAM A. SMITH, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,358. 2 Claims. (Cl. 121—32.)



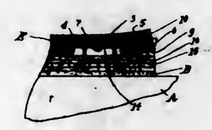
1. A drill steel retainer for rock drills comprising a curved plate adapted to partially encircle the nose piece of the front head of the machine and secured to the front head by the side bolts, said plate extending outwardly at the sides beyond the front head, retainer bolts passing rearwardly through the outwardly extending portions of said plate, with the heads of the bolts in front of said plate, springs on the shanks of said bolts and securing devices to hold the springs on the bolts, a yoke retainer pivotally connected to the heads of said bolts and having a looped portion adapted to partially encircle the drill steel shank, and means for clamping said yoke in position to retain the drill steel.

1,383,435. BALL-BEARING RIM-LUG. WILLIAM J. SMITH, Eolia, Mo. Filed Sept. 7, 1920. Serial No. 408,568. 1 Claim. (Cl. 301—20.)



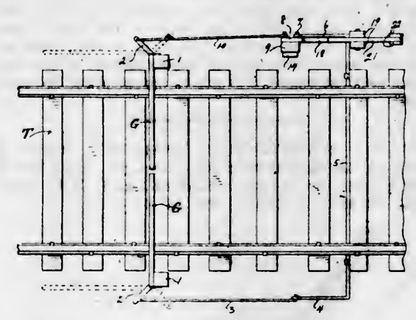
A ball-bearing rim-lug, comprising a base-plate having an integral rim-engaging lug projecting from its inner side, and provided with an annular ball-race upon its outer side; balls in said ball-race; a bolt having screw-threads; and a nut threaded on said bolt and having a ball-race upon its inner face seated on said balls.

1,383,436. DETACHABLE SHOE-HEEL. STANLEY SOLARZ, St. Paul, Minn. Filed Mar. 3, 1921. Serial No. 449,281. 4 Claims. (Cl. 36—36.)



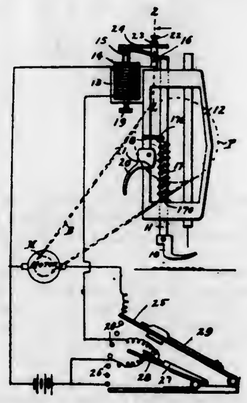
1. In an interchangeable heel and means for attaching the same to shoes, the combination with a fixed heel forming part of the shoe, of a flat shallow circular hollow member secured to the surface of the fixed heel and having a thin plate extension lying flat on the fixed heel and extending forwardly to the breast thereof, a rectangular opening in the forward part of said plate extension, an elongated opening cut through the center of the top wall of the circular hollow member and disposed longitudinally of the fixed heel, a heel normally fitting over said fixed heel and having a projecting lug adapted to engage said rectangular opening when said heel is in normal position, a recess in the heel to the rear of said lug, a T headed stud extending from the bottom of said recess, the head thereof disposed transversely of said heel and projectable through said elongated opening and adapted to interlockingly engage the top wall of the circular hollow member when it is inserted in and turned so as to be positioned at right angles to said elongated opening, and a circular wall for said recess concentric with said T headed stud, said wall slidably peripherally surrounding said circular hollow member, so that said heel may be bodily rotated on the latter and normally held against lateral displacement.

1,383,437. RAILWAY-GATE. THEADORE M. SPURLOCK and JAMES A. SPRAGUE, Sitka, Ark. Filed July 31, 1920. Serial No. 400,310. 1 Claim. (Cl. 246—125.)



The combination with a pair of gates supported for swinging movement in a substantially horizontal path, of an arm movably supported adjacent said gate, a shank carried by said arm, a stationary arm having a slot extending longitudinally thereof and through which the shank of the movable arm is directed whereby said arm is capable of both endwise and swinging movement, means for imparting upward movement to the movable arm, and means being adapted to return the movable arm to its normal position upon release of said first means, and an operative connection between said arm and the gates whereby the gates are swung toward each other upon movement of the arm in one direction, and away from each other upon movement of the arm in the opposite direction.

1,383,438. SEWING-MACHINE. SAMUEL F. STEIN, Williamsport, Pa. Filed July 19, 1918. Serial No. 245,781. 7 Claims. (Cl. 112—239.)



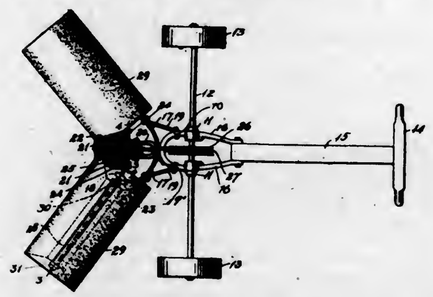
1. A sewing machine having a presser foot, a motor for driving the machine, and automatic means for depressing the presser foot associated with the motor control mechanism.

1,383,439. ADVERTISING-SIGN. DAVID STEINBERGH, Reading, Pa. Filed Dec. 29, 1919. Serial No. 347,960. 1 Claim. (Cl. 40—125.)



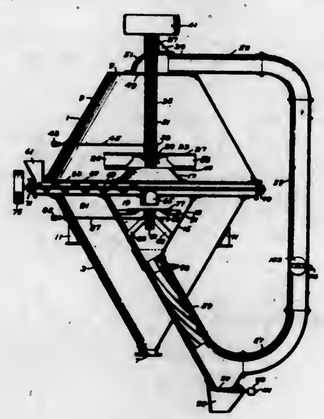
A sign comprising a main board in the form of a segment of a circle and bearing the representation of a fixed background, and a coöperating board to the rear of said main board representing an object in motion, said coöperating board being located approximately at the axis of said segment and at a height to appear above the main board.

1,383,440. ROTARY-BRUSH SWEEPER. ORRIN R. STROME, Melfort, Saskatchewan, Canada. Filed May 3, 1919. Serial No. 294,514. Renewed Jan. 8, 1921. Serial No. 435,988. 1 Claim. (Cl. 15—17.)



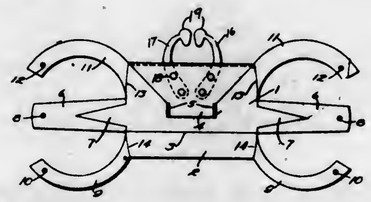
In a sweeper, the combination with a handle having a grip at its front end, bars pivoted to its rear end, a loop having spaced bearings to which said bars are connected, the sides of the loop having longitudinal slots, a main shaft journaled through the bearings and having ground wheels at its ends, and a driving wheel fast on said shaft between such bearings; of a yoke carried by the loop and having bearings in its arms, a counter shaft journaled through these bearings and carrying a driven wheel between them, operative connections between said wheels, brush shafts connected by universal joints with the ends of the counter shaft and carrying roller brushes, bearing collars for these shafts between said brushes and joints, arms pivoted to said collars and leading alongside said yoke, and bolts through such arms and adjustable in said slots for varying the position of the brush shafts with respect to the counter shaft.

1,383,441. AIR-SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 16, 1920. Serial No. 358,983. 13 Claims. (Cl. 83—40.)



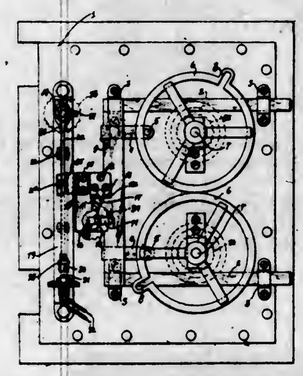
1. An air separator for grading materials, comprising, in combination, a casing having a separating chamber and a collecting chamber therein, a fan for causing an air current to move upward through the separating chamber into the collecting chamber, a pipe for conducting the air current from the collecting chamber to the separating chamber, means for feeding materials down into the separating chamber, a rotary distributer for receiving the materials from said feed means and delivering the same into the path of the upward moving air current, and a fan rotated by said air current for rotating said distributer.

1,383,442. CALF-WEANER. CARL J. SUNDSTROM, Mud Butte, S. D. Filed Aug. 27, 1920. Serial No. 406,425. 2 Claims. (Cl. 119—132.)



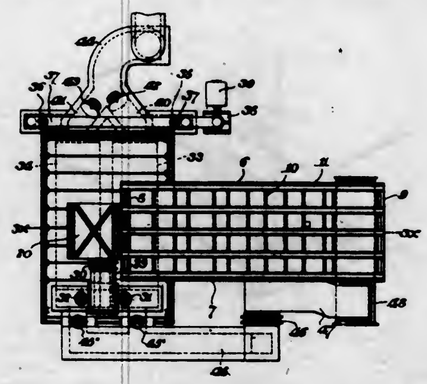
1. In a calf weaner, a plate, a lip disposed at an angle to said plate, shields disposed laterally of said plate and lip and approximately at right angles thereto, oppositely disposed tongues projected laterally from said plate, an apron formed integral with said plate and bent back thereupon, spaced prongs formed integral with said apron and disposed at right angles thereto, and handles carried by said plate, one of said handles being capable of manual adjustment.

1,383,443. SAFETY-LOCK. MACIEJ SZYMKIEWICZ, Jersey City, N. J. Filed Dec. 1, 1920. Serial No. 427,463. 1 Claim. (Cl. 70—53.)



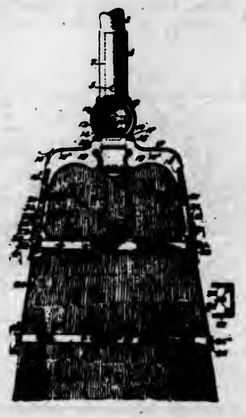
In a device of the class described, a door, bolts slidably mounted on said door, wheels rotatably mounted adjacent said bolts, slotted radial projections on said wheels, a member connecting said bolts, lugs projecting from said member, pins on the ends of said lugs lying within the peripheries of said wheels, said pins being adapted to register with said slotted lugs, an extension on said member, a slot in said extension, a shaft extending through said slot and rotatably mounted in said door, a stem rigid with said shaft, a projection on said extension, having a recess therein, said stem having contact with said projection through said recess, a second projection on said extension, means normally lying in the path of said second plate, and means for removing said first-named means from the said path.

1,383,444. METALLURGICAL FURNACE. BENJAMIN TALBOT, Solberge, North Allerton, England. Filed Mar. 29, 1920. Serial No. 369,510. 16 Claims. (Cl. 263—33.)



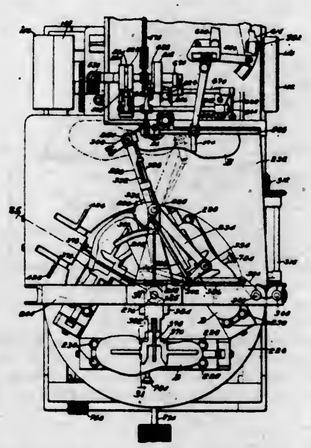
1. A tilting furnace provided with means for the introduction of fuel gas thereto at one end thereof on one side of its axis of oscillation in combination with means for discharging waste gases and means for discharging the metal therefrom at the other end thereof on the other side of said axis.

1,383,445. BROOM. STEPHEN G. WILSON, Philadelphia, Pa. Filed July 20, 1918. Serial No. 245,856. 9 Claims. (Cl. 15—19.)



1. In a broom, a broom head having depending portions to engage opposite edges of the broom and flanges to engage opposite faces of the broom, a band engaging the lwer ends of said depending portions, straps depending from said depending portions and engaging the edges of the broom, and a lower band connecting the lower ends of said straps.

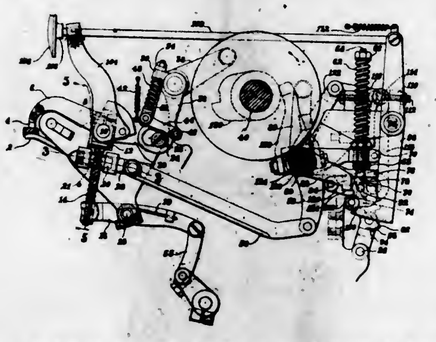
1,383,446. AUTOMATIC SOLE-MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 20, 1916. Serial No. 126,685. 46 Claims. (Cl. 12—27.)



27. A sole-machine having, in combination, a tool for operating upon the marginal portion of a sole-shaped blank; means for feeding the blank relatively to the tool to transfer the point of operation around the curved marginal portion of the blank; means for holding a stack of sole shaped blanks; means for receiving the sole shaped

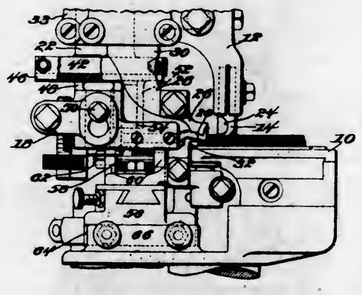
blanks in a stack after operation thereon by the tool; and transfer-mechanism for transferring blanks, singly, first from the stack-holding means to the feeding-means and then from the latter to the blank-receiving means.

1,383,447. SEWING-MACHINE. FRED ASHWORTH, Beverly, Mass., assignor to United Shoe Machinery Corporation, Boston, Mass., a Corporation of New Jersey. Filed May 23, 1919. Serial No. 299,222. 24 Claims. (Cl. 112—61.)



1. A sewing machine having, in combination, a work support, a presser foot, and mechanism for actuating the presser foot comprising a longitudinally movable bar, a presser foot lever pivoted on one end of the bar, means for actuating the bar to cause the presser foot to engage the work yieldingly, and means for locking the bar to maintain the presser foot in engagement with the work.

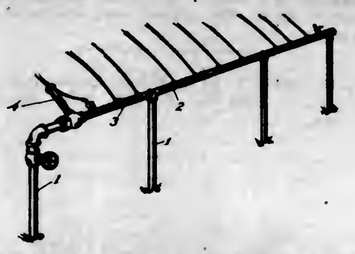
1,383,448. SOLE-CHANNELING MACHINE. FREDERIC E. BERTRAND, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 7, 1919. Serial No. 302,577. 12 Claims. (Cl. 12—27.)



1. A sole channeling machine having, in combination, a channel knife, a shoulder knife, and means for moving one of said knives across the line of feed toward and from the other without altering the depth of cut.

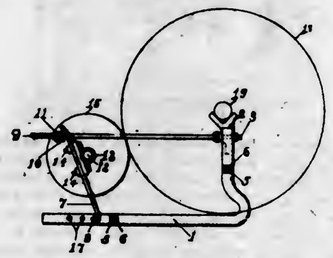
1,383,449. OVERHEAD IRRIGATING DEVICE. WALTER H. COLES, Troy, Ohio. Filed July 2, 1919. Serial No. 308,085. 4 Claims. (Cl. 299—72.)

1. In an overhead irrigating system for sprinkling a fixed area regardless of wind variations, the combination of a sprinkling element adapted to spray a plurality of fine jets of water parallel to each other for covering such area in the absence of wind deflection, and a sprinkling element adapted to normally direct its spray outside of the



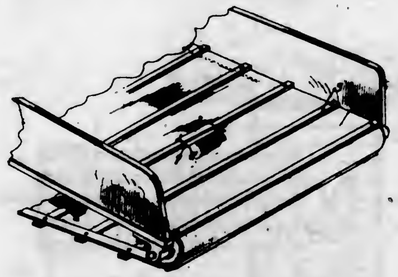
area desired to be covered, at an angle to normal jets and on a line calculated to bring the spray from said element within said area upon wind deflection.

1,383,450. FRICTION-DRIVEN AUTOMOBILE POWER-JACK. CHARLES E. CURTISS, Clinton, Wis. Filed Mar. 8, 1919. Serial No. 281,533. 3 Claims. (Cl. 74—106.)



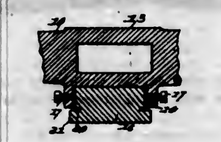
3. In a friction driven automobile power jack, a knock-down frame comprising two side pieces of similar form and dimensions, each made from a single piece of structural steel separated by two pipes and secured together by two nuts and bolts, the latter passing through the pipes and side pieces, said side pieces each having a bearing portion and a supporting portion substantially at right angles to each other, said portions being connected by a reverse curve and the supporting portion terminating in a seat well within the base of support.

1,383,451. CONVEYER-SLAT SPLICE. BURTON W. DALRYMPLE, Glasco, Kans. Filed July 2, 1919. Serial No. 308,086. 1 Claim. (Cl. 287—111.)



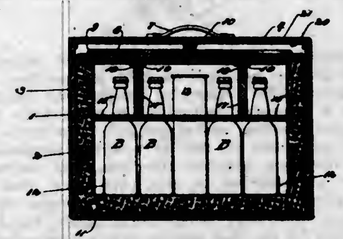
A slat splice comprising a relatively flat member provided at its longitudinal edges with inwardly directed flanges spaced from the intermediate portion of the member, and a member comprising a flat intermediate portion and upstanding side walls occupying substantially parallel planes, the said side walls being provided at their free longitudinal edges with outwardly laterally directed flanges slidably engageable with the flanges of the first-mentioned member, said flanges being adapted to be bent against said side walls to securely clamp the slat.

1,383,452. HAMMER. LEWIS DICKINSON, Jacksonville, Fla., assignor of one-half to J. Q. Dickinson, Jacksonville, Fla. Filed May 19, 1920. Serial No. 382,464. 2 Claims. (Cl. 145—29.)



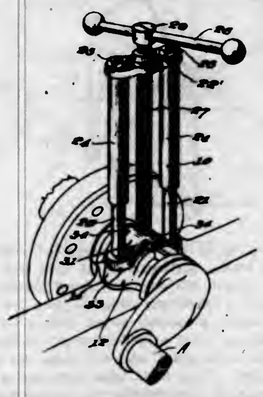
2. A hammer head having a side seat, a cushioned impact block fitted in said seat, a split reinforcing band embracing the block and having in-turned flange engaging the surfaces thereof, and set screws arranged in the walls of the seat for terminal impingement against the exterior surfaces of the band for locking the block in the seat.

1,383,453. RECEPTACLE FOR BOTTLES AND THE LIKE. BRUCE DOUGAN, St. Louis, Mo. Filed Feb. 4, 1921. Serial No. 442,523. 10 Claims. (Cl. 217—19.)



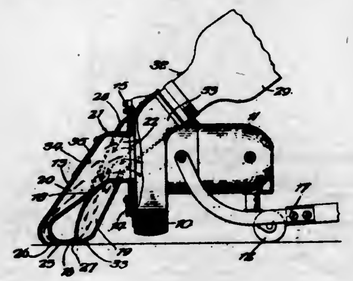
1. A receptacle having a closure, a pressure member movably mounted in the receptacle and adapted to engage an object contained therein, and means whereby pressure is transmitted from said closure to said pressure member so as to secure the object in the receptacle, said means including an adjustable member through which the pressure is transmitted and said adjustable member being adjustable relative to the closure and pressure member.

1,383,454. BEARING-FITTING TOOL. BARTHOLDIA DYMOND, Charlottesville, Va. Filed Aug. 15, 1919. Serial No. 317,775. 7 Claims. (Cl. 29—1.)



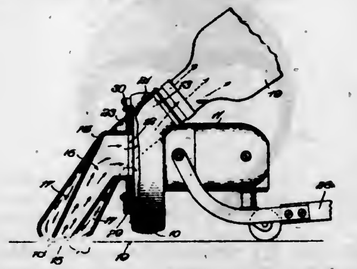
1. In a bearing fitting tool, the combination, of a pair of guide and attaching rods provided with openings extending therethrough near their lower ends, a locking key extending through said openings, a pressure member carried by said rods and means for moving said pressure member into and out of pressing position.

1,383,455. CLEANING APPARATUS. WILLIAM W. FARNSWORTH, Littleton, Colo. Filed May 5, 1919. Serial No. 294,672. 10 Claims. (Cl. 15—60.)



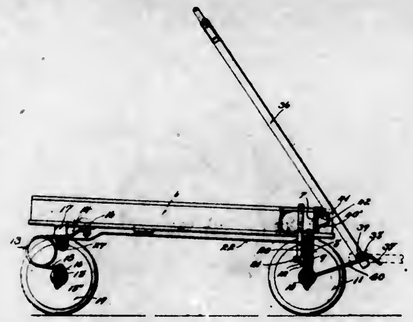
1. A cleaning apparatus nozzle adapted to be moved over the surface to be cleaned and provided with a continuous narrow inlet slot adapted to be closed by the surface and having an outlet opening, a blast inlet passage in the nozzle having an inlet opening adjacent one end of the nozzle, said passage having a narrow discharge outlet opening extending along one side of the said slot and said discharge passage diverging from the outlet thereof toward the inlet thereof, the said outlet opening and the said inlet of the blast passage being offset from each other in directions lengthwise of the nozzle.

1,383,456. CLEANING APPARATUS. WILLIAM W. FARNSWORTH, Littleton, Colo. Filed July 5, 1919. Serial No. 308,697. 3 Claims. (Cl. 15—60.)



1. A cleaning apparatus embodying a nozzle adapted to be moved over the surface to be cleaned, and having a comparatively narrow slot adapted to be closed by said surface, there being narrow discharge outlet slots arranged along both of the lateral edges of the first recited slot for directing blasts of air against the said surface and in directions toward the first recited slot, the height of each of the outlet passages decreasing in directions from one end to the other end of the nozzle, an air moving element having a suction side and a blast side, the first recited slot having communication with the suction side of the said element, means forming communication between the blast side of the said element and the said discharge outlet slots, and means whereby the air moved by the said element will have a continuous and uninterrupted circulation across the said surface from the outlet to the inlet slot, the said air currents being maintained against rarefication during their passage across the said surface.

1,383,457. TOY WAGON. CASPER FAUST, Oshkosh, Wis., assignor of one-eighth to Herbert Nolte, St. Paul, Minn., one-eighth to Jeremiah B. Pushee, Milwaukee, Wis., and one-eighth to Frank J. Stopper, one-eighth to Walter H. Faust, and one-eighth to Francis J. Faust, Oshkosh, Wis. Filed July 15, 1919. Serial No. 310,999. 1 Claim. (Cl. 188—195.)



In a toy vehicle having a body provided with a wheel carrying front axle and a spring connected rear floating axle provided with disk wheels; the combination of brake blocks arranged to engage the inner faces of the disk wheels at varying distances, between the periphery of the wheel and the axis thereof, and manually actuated toggle link connections for the brake blocks and adapted to cause the latter to move longitudinally of the wheel axle against the inner faces of the disk wheels.

1,383,458. PNEUMATIC TIRE. TRUMAN D. FRAZIER, Martins Ferry, Ohio. Filed July 24, 1919. Serial No. 312,885. 1 Claim. (Cl. 152—113.)



A pneumatic tire composed of a relatively thick and unitary carcass having a channel formed circumferentially thereof in its tread portion, a pad in the channel partially filling the same, and a unitary separable tread having a concave inner face formed with a small channel conformably fitted to the pad and having lateral convex portions seated in the channel of the carcass on opposite sides of the pad.

1,383,459. METHOD OF MAKING PAVEMENTS. WILLIAM E. FICKLEN, Norfolk, Va. Original application filed Feb. 12, 1910, Serial No. 543,592. Divided and this application filed Apr. 12, 1916, Serial No. 90,780. Renewed Nov. 6, 1920. Serial No. 422,363. 6 Claims. (Cl. 94—18.)

1. The method of making pavements or the like of settable, shrinkable material which consists in preparing a suitable bed or foundation, forming expansion joints by supporting in position templets running lengthwise of said joints and by supporting against the upper faces of said templets anchored strips for armoring the upper edge of the joint, the shrinkable material below said strips being exposed whereby the templets mold the material



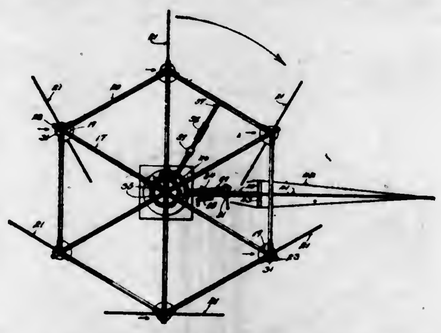
below said strips, and as the shrinkable material begins to set permitting said metal strips to shrink away from said templets.

1,383,460. COLOR PHOTOGRAPHY. WILLIAM FRIESE-GREENE, London, England, assignor to Colour Photography Limited, London, England. Filed Jan. 31, 1921. Serial No. 441,496. 5 Claims. (Cl. 88—164.)



1. A two-color photographic process which consists in preparing pairs of negatives on successive portions of a single light-sensitive surface by exposing the negatives of a pair in succession respectively to direct white light and through a yellow color-screen of a color value substantially equivalent to that of a screen composed of flavazin, preparing positives therefrom, and thereafter exhibiting the positives in color, the color from the positive prepared from the negative which was exposed directly to white light being approximately blue-green and the color for the other positive being approximately of a reddish shade.

1,383,461. WIND-MOTOR. FRANKLIN B. GIESLER, Milwaukee, Wis. Filed May 26, 1919. Serial No. 299,866. 11 Claims. (Cl. 170—25.)



1. A fluid motor of the class described comprising a rotatable head frame, sails carried by said frame and rotatable with respect thereto, a pivoted rudder, a gear connected with the rudder for rotation upon pivotal movement of the rudder, planetary gears carried by the head frame and meshing with said first gear, connections between said planetary gears and the sails for procuring planetary rotation of the sails upon rotation of the head frame, and means for interrupting the connection between the first named gear and the rudder to permit said gear to rotate independently of pivotal movement of the rudder.

1,383,462. DRY-KILN TRUCK. HERBERT B. GILLETTE, Grand Rapids, Mich. Filed Apr. 5, 1920. Serial No. 371,447. 9 Claims. (Cl. 280—61.)



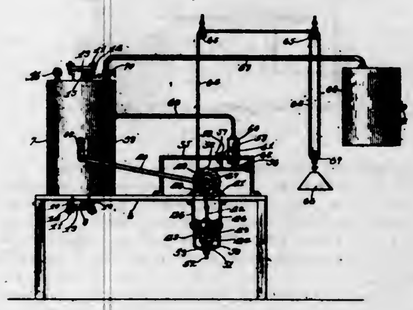
1. A dry kiln truck, the body of which is formed integrally in channel form from a sheet of metal with the sides parallel, with strengthening beads rolled at the edges, transverse axles disposed therethrough, wheels on the said axles, with roller bearings for said axles interposed between the said sides, the end wheels being flanged, and longitudinal locking rods disposed through the ends of the said axles outside of the sides of the said body, all coacting substantially as described for the purpose specified.

1,383,463. GRAIN-CLEANING MECHANISM. AARON P. GOULD, North Wilkesboro, N. C., assignor to W. C. Meadows Mill Company, a Corporation of North Carolina. Filed Apr. 20, 1918. Serial No. 229,744. 5 Claims. (Cl. 83—30.)



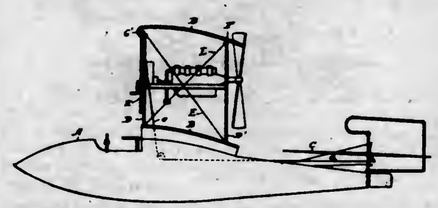
2. In cleaning mechanism for grain mills, a rotary beater having elongated radial beater blades of different widths, inclined vanes extending laterally from the outer edge of the wider blades and a cylindrical casing surrounding said beater.

1,383,464. ACETYLENE-GAS AND PRESSURE GENERATOR. AUGUST F. HABENICHT, Tinley Park, Ill. Filed Mar. 18, 1920. Serial No. 366,755. 2 Claims. (Cl. 48—51.)



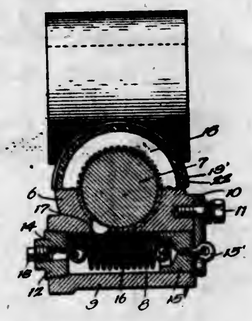
2. In an apparatus of the class described, the combination with a generating tank adapted to hold water in its lower portion and having an inlet and an outlet therefor, of a carbid receptacle mounted within the upper portion of said tank and having an outlet in its lower portion, a feeding slide mounted below said outlet, a rotary drum located near said tank, connections uniting the feeding slide and drum and eccentrically connected to the latter, means to rotate the drum, means eccentrically connected to the drum to regulate the speed thereof, said last named means including a valved cylinder and a plunger therein operable by said drum, and means operable by the pressure within the tank to stop the movement of the drum.

1,383,465. AEROPLANE. CHARLES FRANCIS JENKINS, Washington, D. C. Filed July 9, 1919. Serial No. 309,722. 6 Claims. (Cl. 244—29.)



1. The combination with a suitable aeroplane body, of a main supporting plane connected to the body extending equally on each side thereof and arranged to swing upwardly as a whole about an axis near its own rear side, a tail vane arranged to swing similarly in unison with the plane, and means whereby an operator may prevent and permit such swinging.

1,383,466. BEARING. GEORGE C. JETT, Milwaukee, Wis., assignor, by mesne assignments, of two-fifths to Walter H. Stiemke, Milwaukee, Wis. Filed Mar. 28, 1919. Serial No. 285,782. 16 Claims. (Cl. 64—24.)



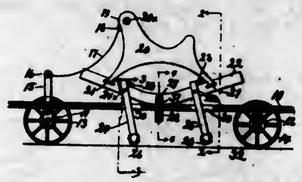
1. A bearing housing having, in combination, a grease compression and storage chamber disposed in the body of the housing transversely of the axis of the bearing and provided in its side wall with a grease conducting groove leading directly to the bearing, together with means whereby grease may be stored in said chamber under pressure.

1,383,467. WIRE-WHEEL RIM AND METHOD OF MAKING SAME. FRED R. KLAUS, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Jan. 9, 1919, Serial No. 270,371. Divided and this application filed June 9, 1919. Serial No. 302,867. 3 Claims. (Cl. 301—58.)



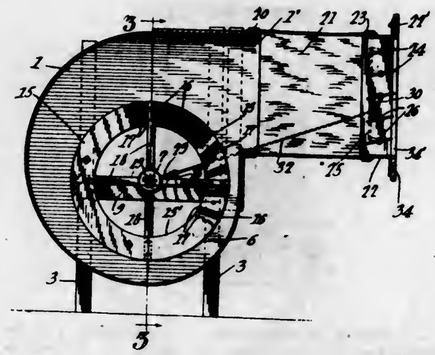
1. A wire wheel rim having a plurality of spoke sockets each socket having a counter depression in the convex side thereof.

1,383,468. ROCKING-HORSE. FERDINAND LAGELBAUER, St. Paul, Minn. Filed Sept. 29, 1920. Serial No. 413,512. 5 Claims. (Cl. 208—38.)



1. In a rocking horse, the combination with a platform and wheels supporting it, of a pair of rockers arranged to rock upon the platform and a seat representing the body of a horse mounted on the rockers; said platform having apertures near the middle of the rockers and the rockers having pivotally suspended guides slidable up and down in the apertures.

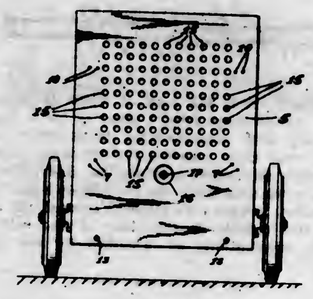
1,383,469. VENTILATOR. FRED C. LARSEN, Creighton, Nebr. Filed Feb. 7, 1920. Serial No. 356,874. 6 Claims. (Cl. 98—27.)



5. A ventilator for auditoriums and the like comprising a casing, a fan provided with a plurality of blades rotatably mounted in said casing, an air conduit secured to and communicating with the interior of the casing, a nozzle secured to the air conduit and communicating with the auditorium to be ventilated, a plurality of shutters secured within said nozzle, and means connected to the shutters and coöperating with the fan for obtaining synchronous changes in position of said shutters upon variations in speed of rotation of the fan to deflect the air expelled from the nozzle at an angle thereto.

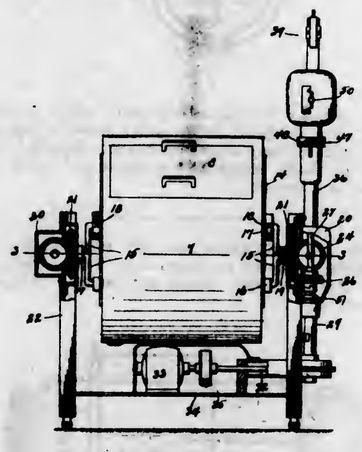
1,383,470. BUMPER FOR MOTOR-VEHICLES. THEODORE E. LIND, Seattle, Wash., assignor, by mesne assignments, to Hood Tractor Company, Seattle, Wash. Filed Nov. 30, 1920. Serial No. 427,270. 2 Claims. (Cl. 293—54.)

1. In combination with a motor vehicle of a bumper comprising a rectangular plate adapted to be secured to the forward end of the chassis frame of said vehicle in spaced apart relation with respect to the radiator of said



vehicle, said plate having a plurality of holes disposed therein, and supports adapted to secure said plate to the forward end of said vehicle.

1,383,471. WASHING-MACHINE. CHESTER ALFRED LINTON, Kansas City, Mo. Filed Dec. 20, 1919, Serial No. 346,334. Renewed Dec. 13, 1920. Serial No. 430,549. 3 Claims. (Cl. 74—14.)

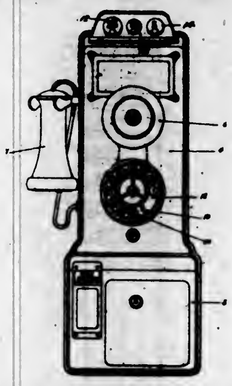


1. A washing machine comprising a receptacle and means for imparting thereto a longitudinal swinging movement in a path having a general figure 8 outline, said means including crank elements supporting said receptacle, and means for mechanically rotating said crank elements at the opposite ends of the receptacle in opposite directions.

1,383,472. AUTOMATIC TELEPHONE PAY-STATION. GEORGE A. LONG, Hartford, Conn., assignor to The Gray Telephone Pay Station Company, Hartford, Conn., a Corporation of Connecticut. Filed May 25, 1920. Serial No. 384,040. 5 Claims. (Cl. 179—6.3.)

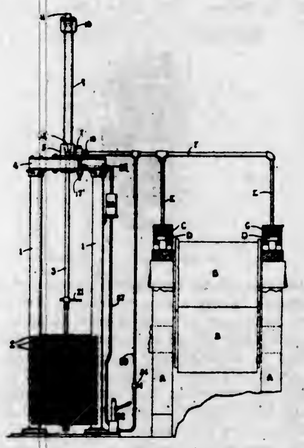
1. A telephone pay-station comprising a telephone having a transmitter and a receiver, the station also involving a calling dial associated with the telephone, the telephone being normally inoperative by a subscriber for the transmission of intelligence to another subscriber, coin

operated means at the station, for rendering the telephone operative and for rendering the calling dial operative to



make a local call to said other subscriber, and means for effecting the action, by coins of different denominations, of signals of different characters.

1,383,473. HYDRAULIC APPARATUS FOR CRUSHING-MILLS. LOUIS EDWARD LORTZ, St. Louis, Mo., assignor to Fulton Iron Works Company, St. Louis county, Mo., a Corporation of Delaware. Filed Aug. 19, 1918. Serial No. 250,582. 3 Claims. (Cl. 103—45.)



1. In an apparatus of the character described, a vertical weight carrying rod, a weight on said rod, a piston movable with said rod, a cylinder in which said piston operates, a conductor for a hydraulic medium in communication with said cylinder, an outlet device in communication with said conductor, a vertically movable relief valve in said outlet device, a vertical operating stem depending from said valve, an abutment carried by said vertical rod for engaging said vertical stem and opening said relief valve, and means for returning the hydraulic medium from said relief valve to said conductor.

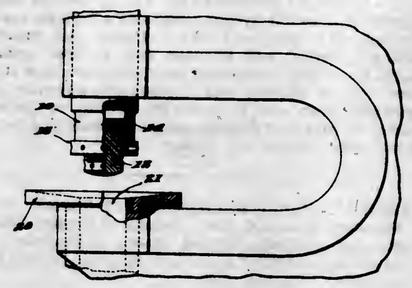
1,383,474. FISHHOOK FISHING-MACHINE. GEORGE W. LUCAS, Kansas City, Mo. Filed Mar. 7, 1921. Serial No. 450,394. 6 Claims. (Cl. 43—15.)

1. A fish hook fishing device, comprising a casing having a catch, a rack-bar extending longitudinally of the casing and provided within the latter with a head, and when "cocked," having a tooth engaging the catch, a trigger fitted flatly against the rack-bar and slidably connected thereto for simultaneous movement under the pull or jerk of a fish, away from the head and upward toward



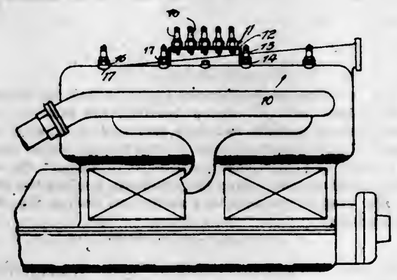
the toothed edge of the rack-bar and against the catch to trip the rack-bar from engagement with the catch, and a spring within and bearing against the casing and the head of the rack-bar for projecting the latter and the trigger further within the casing when the rack-bar is tripped by the trigger.

1,383,475. METHOD OF COLD-DISHING SHEET METAL. HUGH MCCABE, Lawrence, Mass. Filed July 8, 1919. Serial No. 308,514. 5 Claims. (Cl. 153—35.)



1. The method of cold dishing circular metal plate having the characteristics of boiler plate which consists in successively depressing and stretching different portions of the plate to form a circular dish of uniform curvature, whereby the diameter of the circular plate remains substantially unaltered.

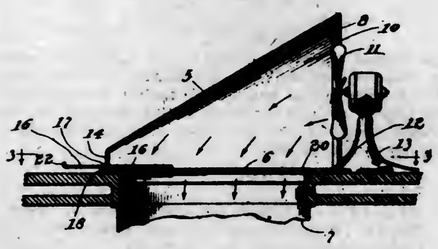
1,383,476. COMBINED SPARK-PLUG HOLDER AND TESTER. JULIUS H. MARQUARDT, Lombard, Ill. Filed May 8, 1920. Serial No. 379,881. 3 Claims. (Cl. 175—183.)



2. A combined spark plug carrier and test-rack, comprising a current conducting member provided with a plurality of spaced threaded openings, and formed at its ends with
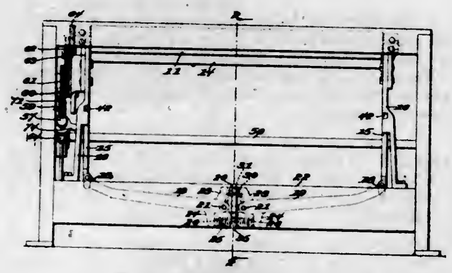
integral downturned attaching feet that are adapted to rest on and to be secured to the frame of an explosion motor

1,383,477. COLD-AIR-SUPPLY DEVICE FOR HEATERS. RUDOLPH W. MENK, Joliet, Ill., assignor to The Excelsior Steel Furnace Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 20, 1920. Serial No. 418,242. 3 Claims. (Cl. 126—110.)



1. A device for introducing air into the cold-air return register of a heating system comprising a portable boxlike structure to be positioned over a register, said structure having a vertical wall provided with an inlet opening, means for forcing air through the opening into said structure, and an inclined wall extending downwardly and rearwardly from said vertical wall, whereby the inclined portion of said wall provides means for directing the air downwardly through the register.

1,383,478. WIND-UP MECHANISM FOR LOOMS. JONAS NORTHROP, Hopedale, Mass., assignor to Hopedale Manufacturing Company, Milford, Mass., a Corporation of Massachusetts. Filed Aug. 11, 1919. Serial No. 316,548. 7 Claims. (Cl. 139—60.)



1. A wind-up mechanism for looms having, in combination, a draw roll, means for rotating the same, a loom frame having upright members arranged to support said draw roll and rotating means, a wind-up roll, slides mounted in said upright members arranged to support the ends of the wind-up roll, means for yieldingly holding the slides in their upward position, and means for moving the slides downwardly.

1,383,479. COMBINED FILTER AND WATER-SEPARATOR. WILLIAM WASHBURN NUGENT, Chicago, Ill. Filed June 23, 1916. Serial No. 105,350. 21 Claims. (Cl. 210—43.)

1. In a separating device, the combination with a casing, of an overflow pipe, a receiver having two compartments one open at both ends and the other open at its upper end but closed at its lower end, a curved edge for



the upper end of the partition separating the said compartments, and a pipe for directing liquid from the upper portion of the compartment closed at its upper end.

1,383,480. IMPULSE-STARTER. PONTUS OSTENBERG, Los Gatos, Calif. Filed Nov. 15, 1918. Serial No. 262,656. 2 Claims. (Cl. 123—149.)

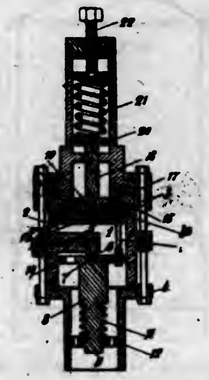


1. An impulse starter for electric generators including a driven member having a stop thereon, a driving member yieldingly connected to said driven member, a detent mounted externally of and independently of said members and adapted to automatically engage said stop when said members are slowly revolved, means operated by said driving member for rendering said detent inoperative, means operated by the peripheral movement of said driven member for maintaining said detent in an inoperative position, and means operatively mounted with relation to said detent to substantially counterbalance the same.

1,383,481. PRESSURE-REGULATOR. ANDERS ANDERSEN PINDSTOFTE, Copenhagen, Denmark. Filed Aug. 28, 1919. Serial No. 320,525. 1 Claim. (Cl. 50—23.)

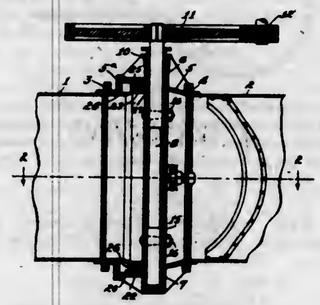
In a pressure regulator, the combination of a spring-loaded plunger; a casing wherein the plunger is guided; a disk loosely mounted in the casing; a diaphragm mounted in said casing between said plunger and disk and free of positive connection with both of them, the upper surface of the diaphragm loosely contacting with the head of the plunger; a second disk loosely mounted in said casing beneath the first-named disk, one of said disks having a central vertical bearing member with which the other disk is engaged; a second spring-loaded plunger guided in the casing below the second disk and having its head spaced from the same and provided with a valve seat; the head

of the second plunger and the second disk constituting companion parts, one of which is provided with adjustable, vertically-projecting members engaging the other



part to regulate the distance between the two parts; and an inlet tube for the fluid to be regulated having an open end coöperative with the valve seat.

1,383,482. VALVE. HARRY E. POPP, East Cleveland, Ohio. Filed Apr. 20, 1918. Serial No. 229,714. 8 Claims. (Cl. 251—12.)



1. In a valve of the character set forth, the combination of a casing, a disk pivotally supported within the casing on an axis extending transversely thereof, and an auxiliary annular valve movable within the casing longitudinally of the axis thereof into engagement with the periphery of the disk, thereby to close the joint between the disk and casing.

1,383,483. WEED-CUTTING ATTACHMENT. CHARLES F. PRATT, Plymouth, Wis. Filed Jan. 12, 1920. Serial No. 350,921. 4 Claims. (Cl. 56—102.)



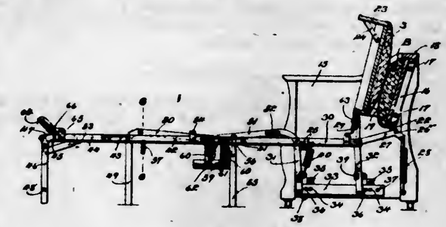
1. The combination with a cutter including a pair of forwardly projecting fingers, and a blade movable therebetween, of guard arms yieldably mounted across the space between said fingers and deflecting means extending rearwardly from the arm toward and below said blade, whereby to direct materials away from the blade.

1,383,484. SHUTTLE. ROBERT REINER, Weehawken, N. J. Filed Nov. 8, 1920. Serial No. 422,466. 2 Claims. (Cl. 112—234.)



1. In a shuttle having an incision in one of its walls and a cover frictionally engaging said wall and resting in said incision, means on the inner face of the opposite wall of the shuttle to limit the extent of the depression of said cover when the latter tends to slip out from said incision.

1,383,485. DAVENPORT. JOHN M. RICHARDSON, Milwaukee, Wis. Filed Dec. 23, 1919. Serial No. 346,954. 3 Claims. (Cl. 5—51.)



1. A structure of the class described comprising a main frame including end walls, a seat member pivoted at its rear portion in the main frame between the end walls and movable upwardly from its normal seat position, a foldable bed structure connected with the main frame and adapted to fold under the seat member, a facing plate member carried by and depending from the normally forward edge portion of the seat member, braces connecting said facing plate member and the seat member, and brackets carried by the end walls and provided with recesses adapted to receive portions of said braces in normal seat position of said seat member.

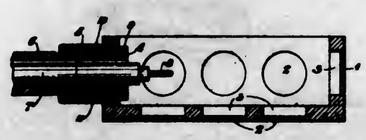
1,383,486. ART OF MANUFACTURING HUB STRUCTURES. HENRY T. ROBERTS, New York, N. Y. Filed Apr. 30, 1919. Serial No. 293,737. 13 Claims. (Cl. 29—158.)

1. In the art of manufacturing hub-structures, the method of forming a hub-structure which consists in uniting together in alining condition, to form a unitary structure, sections of metal which when joined together in alining condition form the hub.

1,383,487. OUTLET-BOX. JAMES J. RUTLEDGE, Pittsburgh, Pa. Filed Apr. 10, 1919. Serial No. 288,921. 2 Claims. (Cl. 247—25.)

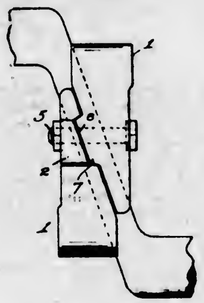
1. The combination with an outlet box having a wall provided with continuously flat outer and inner faces and

a circular opening therethrough, of an integral one piece hollow coupling connection extending through the circular opening provided with an inner laterally extending flange engaging the inner flat face of the box around its opening and an outer threaded portion extending through and beyond the opening, a conduit in alinement with said coupling abutting thereagainst and having an inner threaded connecting terminal, an interiorly threaded sleeve coupling engaging the threads of the flanged coupling and of the conduit respectively, and having an inner annular shoul-



dered recess extending backwardly from one end providing a comparatively thin contacting end portion for tight engagement against the outer face of the box, and a spiral locking spring inserted in said recess bearing by one end against the shoulder of the recess and by the other end against the flat face of the outer wall of the box and compressed to its maximum limit when the sleeve coupling is screwed up tight against the box and with the flange of the coupling connection in corresponding tight engagement with the inner face of the box.

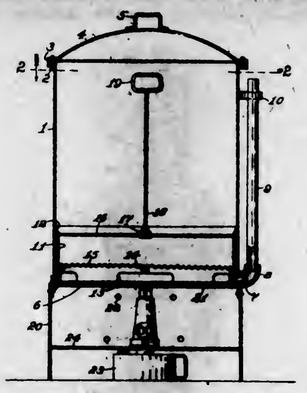
1,383,488. CRANK-SHAFT BALANCE. MARTIN R. SCHAFFER, Reading, Pa. Filed Sept. 25, 1920. Serial No. 412,891. 2 Claims. (Cl. 74—5.)



1. In a crank shaft balance, the combination of a shaft, a pair of balance members adapted to be secured to said shaft in opposed relative relation, one of said members having a pair of depressions and the opposite member having a pair of lugs adapted to register with said depressions when the two members are placed in proper position on the shaft.

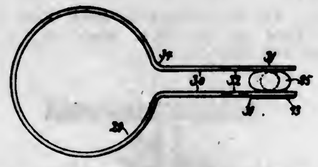
1,383,489. APPARATUS FOR PREPARING AND DISCHARGING FEED. FRETS C. SCHEVE, Sumner, Iowa, assignor of forty-five one-hundredths to Creno P. Bettenga, Waterloo, Iowa, and five one-hundredths to Fred W. Bathke, Sumner, Iowa. Filed July 19, 1920. Serial No. 397,357. 1 Claim. (Cl. 126—47.)

In combination, an orificed housing containing heating means, a container removably positioned upon said housing, a reticulated strainer removably mounted in said container spaced above the bottom thereof and having a raised rim spaced from the inner circumferential wall thereof with a sharpened top scraping edge inclined toward and contacting with said wall, a delivery-spout in communication with the bottom part of said container, mounted to rock from a raised to a lowered position, and a resilient clip mounted on said container and adapted to



receive and releasably hold said spout when the latter is in its raised position.

1,383,490. AUTOMOBILE-BRAKE ATTACHMENT. ADOLPH G. SCHINDLER, Stillwater, Minn. Filed May 21, 1920. Serial No. 383,150. 3 Claims. (Cl. 188—196.)



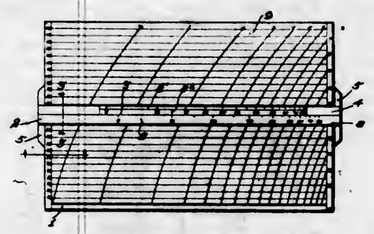
1. The combination with a spreading brake in the wheel hub of an auto vehicle, of a cam for spreading the brake into braking position, and a device of flat metal detachably secured to the hub and projecting as a lining between the cam and the brake.

1,383,491. GARMENT. ARTHUR FRANCIS SECREST, Wichita, Kans. Filed July 31, 1919. Serial No. 314,415. 4 Claims. (Cl. 2—144.)



4. A garment consisting of a body portion, trousers associated therewith and a seat flap on said trousers having two triangularly formed extensions extending outwardly and upwardly from the center of said flap and adapted to be attached to the body portion, substantially as and for the purposes set forth.

1,383,492. CALCULATING DEVICE. FRANK HOWARD SMELY, Oakland, Calif. Filed Feb. 14, 1920. Serial No. 358,749. 1 Claim. (Cl. 235—89.)



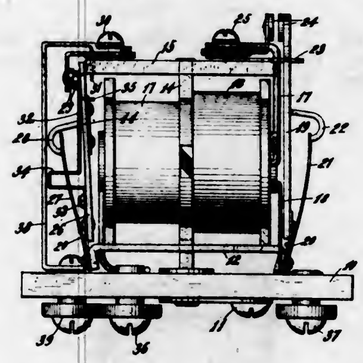
A device of the character described comprising a supporting base having enlarged end portions provided with guiding grooves within the outer surfaces thereof, a freely slidable main rule adapted to move over said base, and a guide block secured to each end of said rule having projections riding within the recesses of the enlarged ends of the base, said rule having its upper surface formed to provide a raised graduated surface and a space bordered by said raised graduated surface, a movable rule positioned within said space of a length less than the length of the main rule and having its upper surface lying flush with the surface of the raised graduated portion of the main rule, said movable rule being graduated and slidable relative to the main rule.

1,383,493. OINTMENT. JOHN P. SHEPHERD, Chicago, Ill., assignor, by mesne assignments, to Shepherd Chemical Company, a Corporation of Illinois. Filed Jan. 24, 1920. Serial No. 353,816. 5 Claims. (Cl. 167—9.)

1. An ointment comprising a small amount of free iodin and a preponderating proportion of free cholesterin.

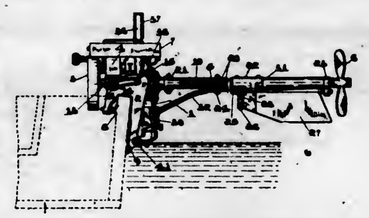
3. An ointment comprising approximately 4% free iodin, 4% potassium iodid, 4% water, 9% petrolatum and 79% cholesterin.

1,383,494. REGULATOR. EDGAR M. SORENG, Milwaukee, Wis., assignor to Briggs & Stratton Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 25, 1916. Serial No. 116,762. 10 Claims. (Cl. 171,313.)



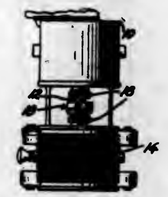
2. In a regulator for storage battery charging systems of the type employing a cut-out magnet and a vibrator magnet, a metal rod constituting a core on which both magnet coils may be wound, a metal partition on the rod between the magnet windings, plates secured to the metal partition and constituting pole pieces for both magnets, and contact-controlling armatures disposed between the pole pieces and adjacent the ends of the core.

1,383,495. OUTBOARD-MOTOR FOR BOATS. HARRY W. SPENCER, Toronto, Ontario, Canada. Filed July 19, 1920. Serial No. 397,423. 11 Claims. (Cl. 115—18.)



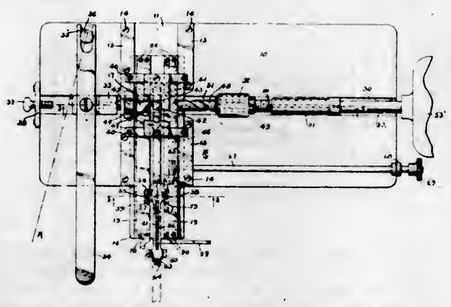
1. In an outboard motor for boats the combination of a frame adapted to be secured to a boat; an inverted vertical internal combustion motor connected to said frame, the cylinder of the motor being located below the upper part of the frame; and a propeller shaft driven by said motor.

1,383,496. PISTON-ROD LUBRICATOR AND NUT-RETAINER. OLOF SWANSON, Denver, Colo. Filed Nov. 3, 1919. Serial No. 335,539. 12 Claims. (Cl. 286—7.)



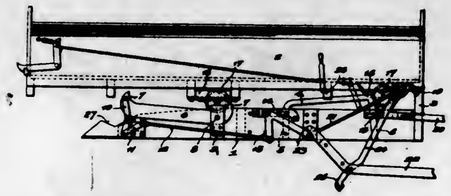
1. A piston-rod lubricator, comprising a pair of members adapted to fit about the rod and carry lubricant, and means to retain said members on the rod, each member having an inner wall with a slot in said wall adjacent the top thereof and spaced from the bottom thereof.

1,383,497. PELLET-INSERTING MACHINE FOR PIANO-KEYS. SEYMOUR SYLVESTER, Brooklyn, N. Y., assignor to Bass Bros. Incorporated, New York, N. Y. Filed Oct. 26, 1920. Serial No. 419,625. 21 Claims. (Cl. 144—2.)



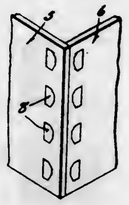
1. In mechanism of the character described, a piano key balance member, means for determining the position in which a weight is to be inserted in said key, and means for inserting a weight at said predetermined position.

1,383,498. DUMPING MECHANISM FOR TRUCKS. BLAKE TAYLOR, Roanoke, Va. Filed Feb. 12, 1921. Serial No. 444,504. 12 Claims. (Cl. 298—14.)



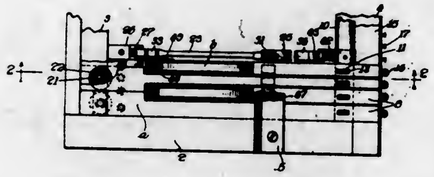
1. A dump truck comprising sills, a dump body superposed thereover, wheels journaled on the under side of the body, tiltable tracks pivoted adjacent one end to the sills for supporting the wheels and formed with means for arresting the wheels at normal position in approximate vertical alinement with the pivotal mounting for the tracks, and means for tilting the tracks.

1,383,499. BOX-CORNER CONSTRUCTION. WILLIAM TISCH, Milwaukee, Wis. Filed Aug. 18, 1919. Serial No. 318,163. 2 Claims. (Cl. 217—69.)



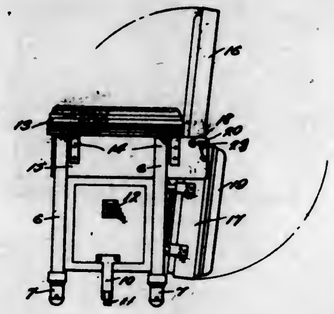
1. In a box structure, a pair of box sections disposed in angular relation, an elongated connecting strip longitudinally bent to provide an angular cross section and engaged against the edge portions of the inner faces of the box sections, and tongues extending from the edge portions of said strip through the box sections, said tongues having their outer portions bent to lie against the outer faces of the box sections.

1,383,500. MUSICAL INSTRUMENT OF THE STRING TYPE. JOSEPH N. VASEY, Brookfield, and BERNARD R. KIESSIG, Chicago, Ill., assignors to Vocaltone-Pianotina Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1919. Serial No. 341,510. 7 Claims. (Cl. 84—238.)



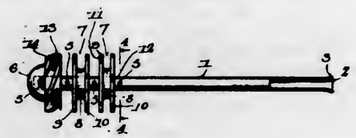
1. In a musical instrument of the class described, the combination of a key, a string, striking mechanism controlled by said key, a damper pivoted to rotate, a key engaging pad on said damper, a spring tending to swing said damper to hold said pad against said string, a cam projection on said damper and an arm extending from said key for engagement with said cam projection to cause rotation of said damper and release of said string when said key is struck to actuate the striking mechanism.

1,383,501. SOFA-BED. EDMOND VERSTRAETE, Belleville, N. J. Filed Nov. 6, 1919. Serial No. 336,061. 1 Claim. (Cl. 5—47.)



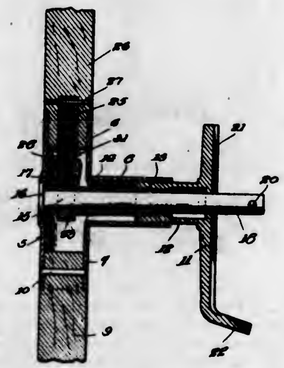
In combination with a main frame having elevated rests at each end, facing boards parallel with the rests extending beyond the back of the frame, an auxiliary frame pivotally mounted between the facing boards having an integral extension, said auxiliary frame capable of swinging to a horizontal position, lowering the upper end upon the main frame between the rests, and elevating the extension on a plane with the upper end, and means for supporting the extension.

1,383,502. VAGINAL SYRINGE. CHARLES F. L. VULTEE, Milwaukee, Wis. Filed Sept. 3, 1920. Serial No. 408,005. 8 Claims. (Cl. 128—245.)



3. A nozzle for a vaginal syringe comprising a perforated tube, and pistons arranged thereon in spaced relation.

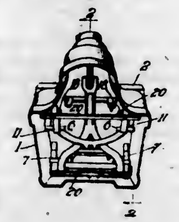
1,383,503. SAW-HANDLE. BAZEL R. WATSON, Everett, Wash. Filed Oct. 7, 1919. Serial No. 328,059. 3 Claims. (Cl. 145—111.)



3. In a saw handle, the combination of a T shaped housing the interior of which is unobstructed throughout,

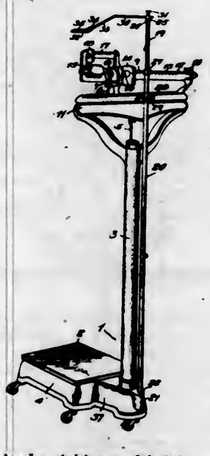
a guard constructed to engage the end of a saw blade and having a nipple extending within the lateral branch of the housing, a sleeve disposed within said branch of the housing and operatively engaging said nipple whereby to move the guard into or out of engagement with the saw blade, a fastening member extending through said sleeve to secure the blade, a handle member fixed to one longitudinal branch of the housing, a second handle member rotatably fitted to the end of the other longitudinal branch of the housing, and a telescopic locking device disposed within the housing and connecting said second handle member and the outer end portion of said sleeve.

1,383,504. WEIGHING-SCALE. MATHIAS J. WEBER, Chicago, Ill., assignor to Continental Scale Works, Chicago, Ill., a Corporation of Illinois. Filed May 13, 1920. Serial No. 381,014. 5 Claims. (Cl. 265—71.)



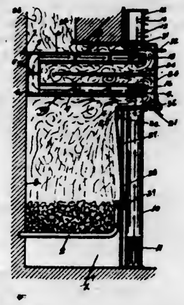
1. In a weighing scale having a beam or lever provided with transversely separated bearing projections, supporting rings surrounding said projections and a guard bar secured to and extending across said beam from side to side in substantial alinement with said projections, the ends of said guard bar bent to extend close to the outer free ends of said projections.

1,383,505. WEIGHING AND MEASURING DEVICE. MATHIAS J. WEBER, Chicago, Ill., assignor to Continental Scale Works, Chicago, Ill., a Corporation of Illinois. Filed May 29, 1920. Serial No. 385,108. 6 Claims. (Cl. 265—55.)



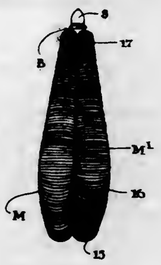
1. In a combined weighing and height measuring device, a base, a platform on the base upon which the person stands to be weighed and measured, a standard rising from the base adjacent to the platform and carrying on its upper end suitable weight indicating means suitably connected to the platform, a telescopically extensible measuring device rising from the base at the rear of and secured to said standard and provided with a horizontally extending arm at its upper end adapted to extend over said weight indicating means for contact with the top of the head of the person being measured.

1,383,506. HEATER ATTACHMENT FOR GRATES AND STOVES. CHARLIE WESTERLUND, Birmingham, Ala., assignor of one-third to F. W. Bostrom, Chicago, Ill. Filed June 10, 1919. Serial No. 303,230. 10 Claims. (Cl. 126—121.)



1. An air heating grate attachment for fire place opening comprising a relatively thin air conducting casing adapted to conform to the horizontal cross section of the fire place opening and to be mounted as a baffle in the top portion of the fire place opening only, a front member disposed across and in front of the top of the fire place opening and adapted to direct the products of combustion about the outer edge of the heater casing, air conduits connected to the heater casing at its front corners and disposed to set in front of the chimney, and a top radiator disposed above and in front of the chimney and having communication with said casing, substantially as described.

1,383,507. HORSE-COLLAR. BENJAMIN CATESBY WINSTON, Orr, N. D. Filed Dec. 29, 1920. Serial No. 433,843. 5 Claims. (Cl. 54—19.)

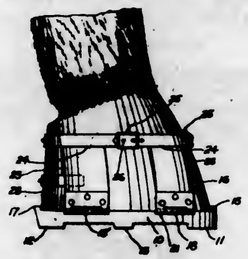


1. A horse collar comprising, a pair of coiled contractile springs arranged side by side, means for connecting the springs to each other, and coacting fastening means carried at the ends of the springs for maintaining them in collar formation.

1,383,508. HORSESHOE. MITRO WITUSHEN, Milwaukee, Wis. Filed Mar. 28, 1920. Serial No. 368,086. 3 Claims. (Cl. 168—22.)

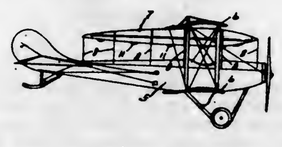
1. A horseshoe comprising a shoe proper, a front pair of straps and a rear pair of straps hinged to said shoe, and

transversely extending straps carried by the said hinged straps, said transverse straps being adapted to be joined end to end to completely encircle the hoof of the horse,



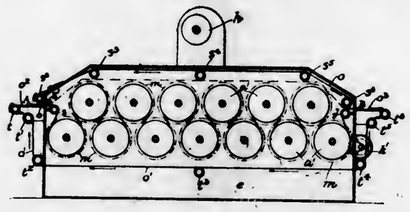
and a supplementary pair of straps secured to the rear pair of the first-mentioned straps and adapted to be passed around the rear of the hoof and joined together.

1,383,509. AEROPLANE. JAMES A. ALLARDICE, Minneapolis, Minn. Filed Mar. 8, 1920. Serial No. 364,143. 2 Claims. (Cl. 244—5.)



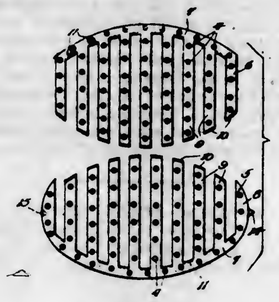
1. The combination with a biplane of the ordinary type comprising a fuselage and planes, of a cigar shaped tank containing a buoyant gas, said tank having pointed ends and having its longitudinal axis parallel to the longitudinal axis of the fuselage, said tank being disposed immediately under the top plane and being firmly secured in position to said plane and fuselage and being of a length substantially the same as the fuselage.

1,383,510. APPARATUS FOR DRYING YARN OR THE LIKE. GREENWOOD BAILEY, Bradford, England, assignor to Herbert Foster Anderton, Bradford, England. Filed Jan. 31, 1917. Serial No. 145,661. 1 Claim. (Cl. 34—12.)



In apparatus for drying hanks of yarn, a chamber, cylinders mounted in said chamber, supports for one end of each of said cylinders, means for rotating said cylinders, guide rolls mounted in said chamber, guide rolls mounted outside said chamber at the feeding end, guide rolls mounted outside said chamber at the discharge end, endless tapes passing over said cylinders and guide rolls, slots in the walls of said chamber to allow ingress and egress of said tapes, a heating chamber adjoining said chamber, a heating device in said heating chamber, slots in the walls of said chambers opposite to said cylinders, and means for circulating air through said chambers.

1,383,511. HAIR-BRUSH. KATHERINE T. BARAL, New York, N. Y. Filed July 24, 1920. Serial No. 398,626. 4 Claims. (Cl. 15—29.)

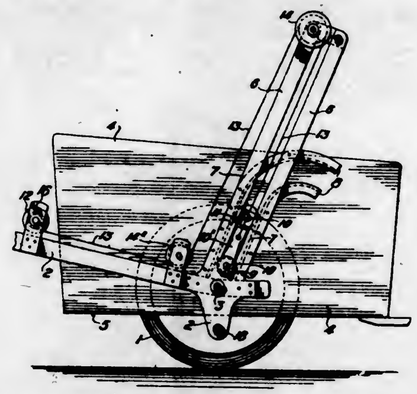


1. In combination, a brush back having a facial recess, a brush head removably seated in said recess and comprising sections having coöperating side members forming a marginal brush head rim, transversely extending spaced interfitting members carried by the side members, and bristle tufts on said side and interfitting members.

1,383,512. PRINTING-INK AND PROCESS OF PRODUCING SAME. HARRY A. BARMIER, Chicago, Ill. Filed Nov. 22, 1919. Serial No. 340,059. 9 Claims. (Cl. 134—36.)

2. A printing ink comprising gilsonite, fuel oil and coloring matter combined in fluid consistency.

1,383,513. TIP-VEHICLE. WALTER BARNETT and JAMES FLORENDINE, Rugby, England. Filed Dec. 28, 1920. Serial No. 432,716. 3 Claims. (Cl. 298—5.)



1. In tip carts and like vehicles, the combination of a framework, road wheels carried by said framework, guide members fixed to said framework upon opposite sides thereof and extending upwardly therefrom, a cart body, rollers extending from opposite sides of said body to engage with said guide members and normally resting in the bases of the guideways of said guide members, means connected to said body whereby said body and said rollers carrying said body can be raised upwardly in said guide members to distance said body substantially vertically from the ground, and means by which upon the continued lifting of said body by said mechanical lifting means said body is caused to turn about the axis of its rollers to the necessary tipping angle to discharge its contents.

1,383,514. CUFF OR SLEEVE FOR SHIRTS. EMIL BAUMBLATT, Jr., Philadelphia, Pa. Filed Mar. 31, 1920. Serial No. 370,360. 2 Claims. (Cl. 2—79.)



1. A detachable sleeve portion for shirts, comprising a pocket along the upper edge thereof, a band secured along one inside face of said pocket, members of snap fasteners secured to said band, a second band secured along the other inside face of said pocket, coöperating members of said fasteners secured to said second band, registering with said first named members, in combination with a shirt provided with a fixed sleeve portion having a band shaped to fit inside said pocket and provided with holes registering with said members.

1,383,515. AUTOMOBILE-BUMPER. LEROY BAUMGARTL, Chicago, Ill., assignor to Ramspring Bumper Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 16, 1921. Serial No. 461,875. 7 Claims. (Cl. 293—55.)



6. A bumper impact member of sheet metal stamped and pressed to form parallel longitudinal portions, and transverse end and intermediate portions, all having a channel-shaped section by the formation of marginal flanges which merge at the junctions of the several portions into continuous reinforcing members surrounding the periphery and internal spaces of the impact member.

1,383,516. SAFETY-RAZOR. COLUMBUS A. BENTON, Houston, Tex. Filed Mar. 10, 1920. Serial No. 364,662. 1 Claim. (Cl. 30—12.)



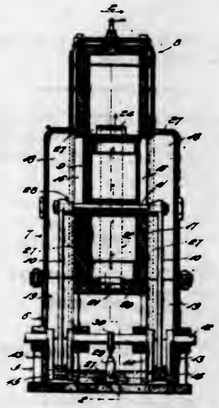
A safety razor, including a handle, a plate-like blade support fixed to said handle, and having a smooth upper face and a downwardly curved free edge, end bosses carried by said support, a double edged blade having end notches which receive said bosses when the blade is placed on said uper face, a blade guard formed to clamp said blade on its support, and having a flat extension which lies on said blade, shoulders projecting upwardly from the ends of said support, and lateral extensions carried by the guard which abut against said shoulders to hold said guard spaced from the corresponding edge of the blade.

1,383,517. CASTING AND PROCESS OF TREATING CASTINGS AND THE LIKE. FRED K. BEZZENBERGER and MALCOLM N. RICH, Cleveland, Ohio, assignors to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 24, 1919. Serial No. 340,406. 8 Claims. (Cl. 91—70.)

1. The method of rendering porous metallic articles impervious to fluids which comprises the formation of silica within the pores of the said article and the partial dehydration of the silica.

7. As a new article of manufacture, a metallic article the pores of which are stopped with silica.

1,383,518. TWO-CYCLE UPRIGHT GAS-ENGINE. CHARLES E. BISER, Selma, Ala. Filed Mar. 10, 1919. Serial No. 281,657. 3 Claims. (Cl. 123—74.)

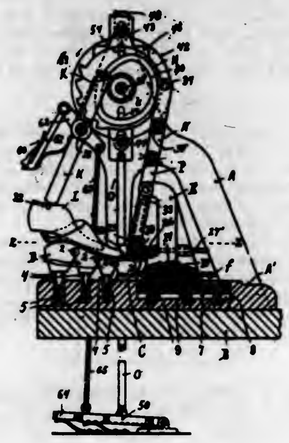


1. An upright internal combustion engine comprising lower and intermediate and upper main sections superposed and joined to one another by substantially horizontal surfaces, the lower section comprising crank-shaft supports, the intermediate section comprising passages and also comprising the lower cylinder-head between said passages, the upper main section comprising chambers, said chambers registering with said passages of the intermediate section, said cylinder being formed with slots through which the interior of the cylinder communicates with said chambers, a piston head in said cylinder and provided with pivots extending through said slots into said chambers, a crank-shaft supported by said lower section, and connecting-rods pivoted to said pivots and crank shaft.

1,383,519. MACHINE FOR MOUNTING SHOES ON LASTS. CHARLES M. BOLLMAN, Cincinnati, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 17, 1916. Serial No. 78,986. Renewed Nov. 23, 1917. Serial No. 203,627. 78 Claims. (Cl. 12—15.)

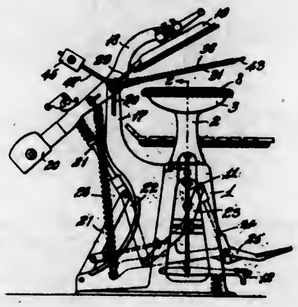
1. A releasing machine comprising a support for the

bottom and front edge of the toe of the shoe sole, a member to engage and thrust a last into the shoe, and mecha-



nism to operate said member and to automatically stop after the last has been inserted.

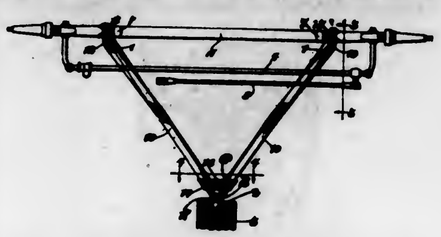
1,383,520. PRESSING-MACHINE. BLUFORD W. BROCKETT, Cleveland, and DANA H. BENJAMIN, Cleveland Heights, Ohio. Filed Jan. 13, 1917. Serial No. 142,277. 15 Claims. (Cl. 68—9.)



1. A pressing machine, comprising a lower pressing member for supporting the garment, an upper pressing member coöperating therewith, means separate from said pressing members and lying between the same for discharging steam upon an article upon the lower pressing member, and steam supply means therefor.

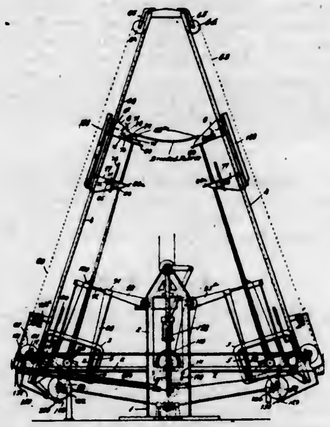
1,383,521. RADIUS-ROD CONSTRUCTION. ADOLPH R. BROCKSMITH, St. Louis, Mo. Filed Dec. 19, 1919. Serial No. 346,105. 5 Claims. (Cl. 267—66.)

1. In a motor vehicle, a radius rod construction comprising a bifurcated member having a swivel connection with a part of the motor vehicle, and having its arms connected to the lower side of the front axle, an upper member composed of angle iron and having two diverging arms having their ends rigidly secured above the front axle and having interlocked connection with the crotch of the lower member, the angles of said upper member en-



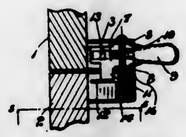
gaging both the inner and the upper sides of the arms of the lower member for relatively a considerable distance between the crotch of the lower member and the front axle.

1,383,522. BRAIDING-MACHINE. ROBERT W. BROWN, New York, N. Y. Filed June 14, 1917. Serial No. 174,700. 118 Claims. (Cl. 28—4.)



51. A braiding machine comprising two groups of strand carriers each composed of two sub-groups, means for shifting the carriers of the respective groups to braid the strands of the fabric, and means for adjusting the positions of the sub-groups to unite the sub-group of one principal group with the sub-group of the other, and means for shifting the carriers to interconnect the strands and close the ends of the fabric.

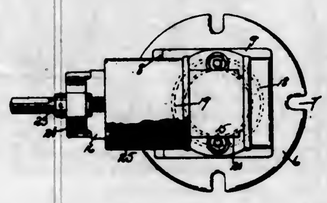
1,383,523. LATCH CONSTRUCTION. ELVAH O. BULMAN, Grand Rapids, Mich. Filed Dec. 4, 1918. Serial No. 265,251. 6 Claims. (Cl. 292—128.)



1. A latch construction comprising a housing having sides and top and formed from sheet metal, a latch member pivotally mounted on and within the housing, the outer end of said member passing through the top of the housing in a plane below that of the pivot and being formed

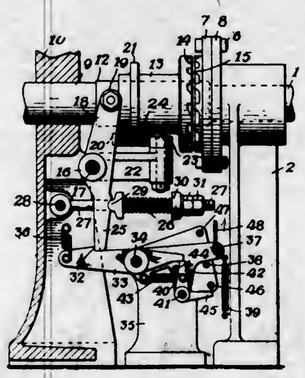
into a depending handle at a distance from the housing, and the inner end of the latch member having a laterally extending arm passing through a side of the housing and turned up at its free end and formed into a hooked catch, and yielding means within the housing associated with the latch member for normally elevating the inner end thereof.

1,383,524. UNIVERSAL VISE. CARL ADRIAN CARLSON, New Britain, Conn. Filed Nov. 15, 1919. Serial No. 338,876. 6 Claims. (Cl. 90—60.)



1. A universal vise comprising a saddle having a curved seat, a base fitting said seat and in contact with substantially the entire seating surface thereof, means for adjustably securing the base to said seat, a jaw support adjustably mounted on said base, means for rotatably adjustably securing said support to said base, and means for securing said support to said base.

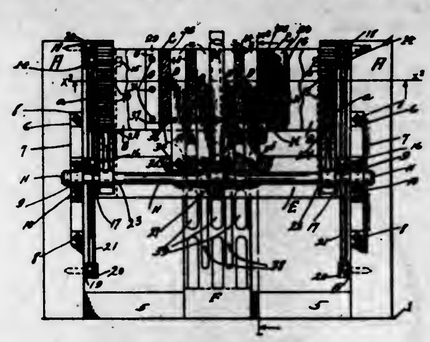
1,383,525. CLUTCH-OPERATING MECHANISM. ELBERT H. CARROLL, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 21, 1917. Serial No. 182,069. 7 Claims. (Cl. 192—116.)



1. The combination with a pair of engageable clutch members, of a pressing means for moving said members into engagement, means responsive to the rotation of said members for relieving the pressure of said pressing means, means responsive to the further rotation of said members for moving said members out of engagement, and means for automatically locking said pressing means in inoperative position.

1,383,526. BLOCK-MAKING MACHINE. HOWARD E. CAVANAH and MATHEW G. SCHOLL, Santa Barbara, Calif. Filed May 24, 1920. Serial No. 383,939. 16 Claims. (Cl. 25—41.)

2. A device for forming concrete blocks, comprising a mold having side and end walls, a core within the mold; a removable pad within the space formed by the mold and core, a support for said pad, and means for causing said



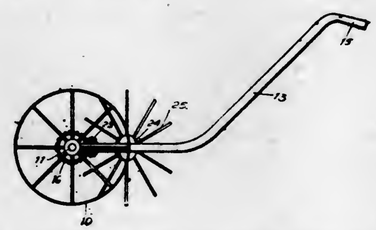
mold and core to move relatively to said pad; said core being formed with means for compressing material in the mold.

1,383,527. PUSH-BUTTON SWITCH FOR ELECTRIC CURRENT. ATTILIO CESARO, Genoa, Italy. Filed Sept. 23, 1919. Serial No. 325,789. 6 Claims. (Cl. 200—159.)



1. An electric switch including a terminal, a spring connected to said terminal and having a free end, means for moving the free end of said spring, a second terminal, a bundle of conductor strips connected to the second terminal and having free ends coöperating with the free end of said spring for establishing an electric circuit, said strips being arranged side by side and one edge of one of the outer strips having an extension directed toward the other outer strip, the free end of the two outer strips being arranged opposite each other and the free end of the intermediate strip having its major portion arranged below the lower edges of the free ends of the outer strips, the free end of the spring when the operating means is actuated, being adapted to pass around the edge of the first mentioned strip which is operative to the extension of said strip and then moved between the strip having the extension and the intermediate strip until it engages said extension.

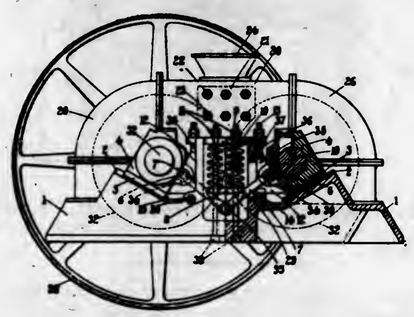
1,383,528. ROTARY CULTIVATOR. JOHN S. CLARKE, Boone, Iowa. Filed Mar. 25, 1919. Serial No. 285,088. 1 Claim. (Cl. 97—25.)



In a device of the class described, a frame, an axle thereon, traction wheels on said axle, a shaft journaled on said frame with its axis disposed at an angle relative to the transverse axis of the frame, a hub on said shaft, a plurality of substantially straight resilient earth working

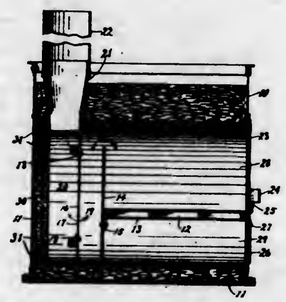
devices detachably mounted on said hub, and extended radially therefrom, part of said earth working devices at regular intervals having at their outer ends laterally extending blades, and means for rotating said shaft.

1,383,529. ROLLER-MILL FOR CRUSHING MATERIALS SUCH AS STONE OR ORES. CHARLES MARKHAM CONDER and GODFREY TWYNAM VIVIAN, Camborne, England. Filed Jan. 26, 1921. Serial No. 440,226. 3 Claims. (Cl. 83—12.)



1. A roller crushing mill comprising a frame with vertical and inclined bearing surfaces, journals mounted on said inclined bearing surfaces, shafts mounted in said journals, rolls keyed to said shafts, driving pulleys on said shafts, toggle levers connecting together said journals, spring means acting on said toggle levers and adapted to draw the journals toward one another, and wedge members with means for adjusting same between the journals and the vertical bearing surfaces.

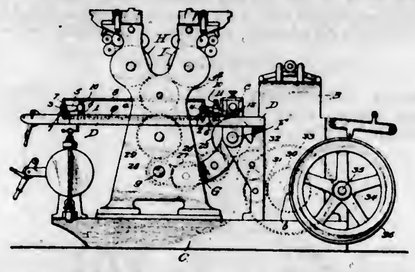
1,383,530. STOCK-TANK. WALTER H. COTTON, Chicago, Ill. Filed May 3, 1920. Serial No. 378,452. 1 Claim. (Cl. 126—347.)



A farm stock tank comprising a body having an aperture in one of the walls, a casing permanently secured within the body and alined with the aperture, horizontal ways forward on the side walls of the casing and extending inwardly from the aperture, a fuel grate slidably supported by the ways, a plate attached to the rear end of the grate and slidably engaging the bottom and sides of the casing but providing a draft passage at its top, a partition crossing the casing back of the plate and having a draft opening at its lower portion, and a smoke stack leading from the casing back of the partition.

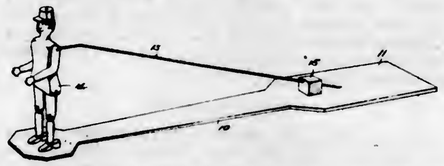
1,383,531. PRINTING-PRESS AND BLANKING-MACHINE. EDWARD CRAIG, St. Joseph, Mich. Filed Sept. 30, 1916. Serial No. 122,964. 17 Claims. (Cl. 101—227.)

1. A machine having means for operating upon and for feeding sheet material, comprising a plurality of rotary feeding members to engage the surface of the sheet material, each member comprising relatively adjustable sections to vary the length of the contact with the sheet



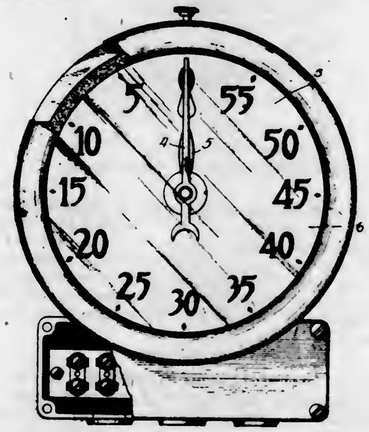
material, thereby to cause the sheet to move forward either a greater or a lesser distance, a shaft on which said members are spaced apart, and mechanism to simultaneously adjust all of said members.

1,383,532. DANCING TOY. HIRAM CABLE CRAMER, Lexington, Ky. Filed Oct. 25, 1920. Serial No. 419,238. 1 Claim. (Cl. 46—40.)



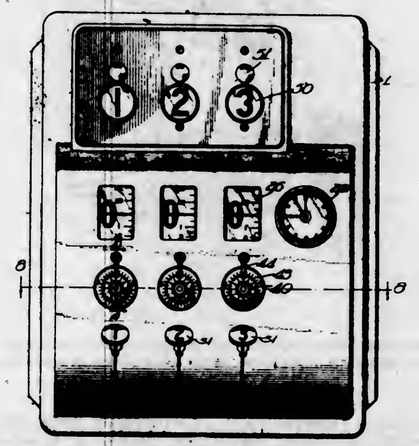
An amusement device of the character mentioned comprising a vibratory board, a flexible wire fixed at one end to the board and at its other end supporting a dancing figure operable through responsive action of the wire to vibrations imparted to the board, and a block secured to the board and having an opening therein through which the wire passes, whereby an auxiliary support for the wire is provided to produce maximum responsiveness therein.

1,383,533. AUTOMATIC TIME-INDICATING AND SIGNALING DEVICE. CHARLES M. CROOK, Chicago, Ill. Filed Jan. 16, 1918. Serial No. 212,060. 40 Claims. (Cl. 161—1.)



40. An apparatus for carrying out a process, means for initiating the operation of the apparatus to start the process, time-controlled means for use in controlling the termination of said process, and means whereby the operation of said initiating means to start the process will initiate the action of said time-controlled means.

1,383,534. AUTOMATIC TIME-INDICATING AND SIGNALING INSTRUMENT. CHARLES M. CROOK, Chicago, Ill., and JOHN R. GAMMETER, Akron, Ohio, assignors to Stromberg Electric Company, Chicago, Ill., a Corporation of Maine. Filed Aug. 26, 1918. Serial No. 251,374. 24 Claims. (Cl. 161—4.)



3. The combination with a switch, of a trip for operating said switch, a continuously rotating shaft, means for moving said trip away from said switch a predetermined distance, and means for connecting said trip with the shaft so that it will move toward the switch as the shaft rotates.

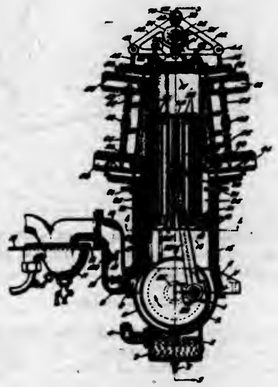
1,383,535. TORPEDO-PLACING DEVICE. EDGAR R. DAVENPORT, Granite City, Ill. Filed Aug. 24, 1920. Serial No. 405,609. 1 Claim. (Cl. 246—216.)



A torpedo carrier comprising a plate to which the torpedo is secured, a U-shaped member carried by the plate for straddling the rail and spring strips carried by said member for engaging the rail underneath the head.

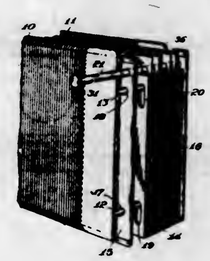
1,383,536. INTERNAL-COMBUSTION ENGINE. NELSON E. DAVIES, Redwood City, Calif. Filed Apr. 5, 1920. Serial No. 371,318. 6 Claims. (Cl. 123—47.)

1. In an internal combustion engine, the combination of a supercharging fuel supply; a cylinder; a hollow reciprocating piston in said cylinder provided with heat radiating pins on its interior; means for admitting fuel in said cylinder on one stroke of said piston and compressing said fuel on the return stroke; means for passing a portion of said fuel during the compressing action through said hollow piston over said pins and into said cylinder beyond said piston and compressing said portion of fuel during the succeeding third stroke of said piston; and means for firing said portion of fuel at the completion of said third



stroke, a pair of exhaust passages leading from said cylinder; a pair of valves controlling said exhaust passages; and a rotating cam and connections controlling said valves; substantially as described.

1,383,537. LEDGER. JAMES C. DAWSON, Webster Groves, Mo. Filed May 5, 1919. Serial No. 294,768. 20 Claims. (Cl. 129—12.)



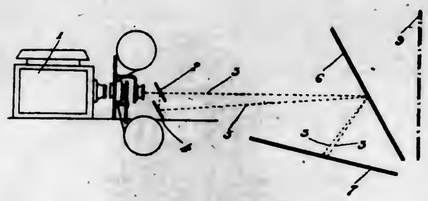
1. In a ledger or the like, in combination, a pair of oppositely facing covers, and a filing post mounted for sliding movement in the direction of its length in each of the said covers.

15. In a ledger or the like, in combination, a pair of equal covers, two filing posts between the covers and sheets of less width than the covers having punch holes for receiving both of the posts when the edges of the sheets at one side are in the same plane with the corresponding margins of the covers and for receiving one of the posts when the said edges of the sheets are engaged with the other post and the opposite edges of the sheets are in the same plane with the corresponding margins of the covers.

1,383,538. STEREOSCOPIC PROJECTING APPARATUS. HERBERT DICKINSON, Norwood, and GEORGE ANDERSON WILLIAM HEPBURN, Maida Hill, England. Filed Feb. 21, 1920. Serial No. 360,379. 8 Claims. (Cl. 88—16.6.)

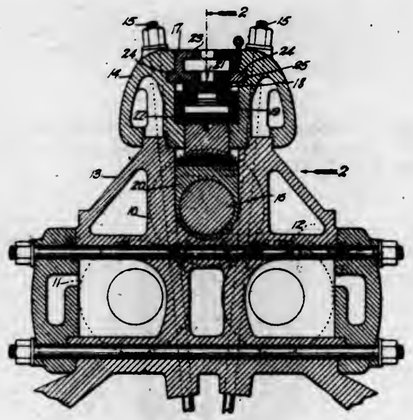
1. In stereoscopic projection apparatus, a projector, a transparent reflector which permits a portion of the light

to pass to produce one image on the screen, a second reflecting surface onto which some of the light is reflected



to produce a second image and a screen upon which both the images are projected so as to be viewed side by side and slightly out of register.

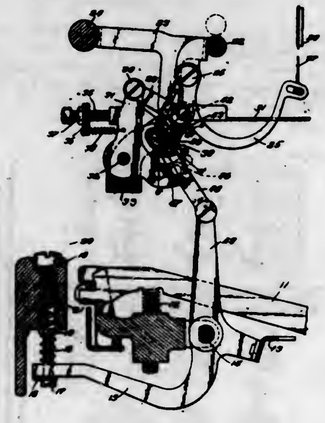
1,383,539. CAP CONSTRUCTION FOR SUGAR-MILLS. GODFREY ENGEL, Sr., Brooklyn, N. Y. Filed Nov. 3, 1919. Serial No. 335,301. 4 Claims. (Cl. 100—47.)



1. In a mill of the character described, the combination of rolls, a housing in which said rolls are journaled, an expansible pressure device seated in said housing and comprising a movable cylinder exerting pressure on one of the rolls, and a relatively stationary piston in said cylinder, said housing having an opening in the peripheral portion thereof through which the piston may first be removed from the cylinder and the cylinder be then lifted away from the roll and a thrust block removably secured in the housing over the piston and thereby releasably securing the pressure device in the housing.

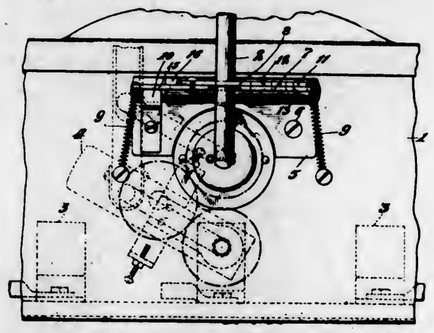
1,383,540. RIBBON-VIBRATOR. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Mar. 10, 1919. Serial No. 281,740. 10 Claims. (Cl. 197—157.)

1. In a typewriter, a ribbon vibrator, an oscillatory member for operating said vibrator, means for operating said oscillatory member to impart movement to said vibrator, and a lever for simultaneously setting said oscillatory member in different initial positions and for adjusting the operating means for said oscillatory member to



cause said oscillatory member to move uniform distances from said initial positions when a key-lever is operated.

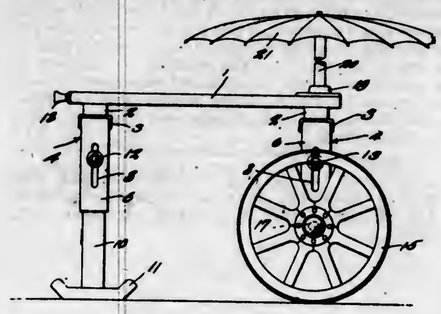
1,383,541. CENTER STOP AND OUTSIDE LOCK-OFF FOR ELECTRICAL SWITCHES. BAYSON D. HORTON, Detroit, Mich. Filed June 26, 1918. Serial No. 241,945. 9 Claims. (Cl. 200—17.)



1. The combination with a double throw quick break switch of a center stop therefor comprising a fixed plate and a movable notched plate mounted thereon to swing about an axis in substantially the plane of the first plate and a spring for actuating said notched plate.

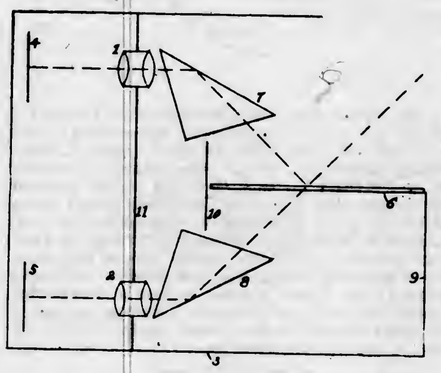
1,383,542. GARDENER'S STOOL. ARTHUR J. HUBD, Wausau, Wis. Filed Sept. 7, 1920. Serial No. 408,616. 4 Claims. (Cl. 155—2.)

1. A gardener's stool comprising a seat; pairs of soil engaging supports disposed adjacent to the ends of the seat; and means for connecting the supports with the seat to effect a vertical adjustment between the support and



the seat and to effect a horizontal adjustment between the supports of each pair.

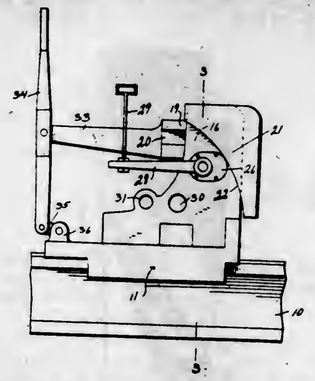
1,383,543. PHOTOGRAPHIC APPARATUS. FREDERIC EUGENE IVES, Philadelphia, Pa. Filed Sept. 13, 1919. Serial No. 323,605. 2 Claims. (Cl. 88—1.)



1. In or for photographic exposing apparatus a pair of side-by-side matched lenses in front of the exposure plane, a longitudinal transparent reflector in front of the two lenses with its plane extending between them, and a single light blending reflector between each lens and the transparent reflector; whereby diagonally entering light rays will be reflected and transmitted to produce two images one reversed with respect to the other.

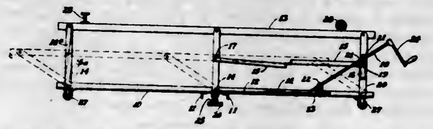
1,383,544. TAPER ATTACHMENT FOR SAWMILL-CARRIAGE BLOCKS. IRVIN W. JOHNSON, Cosmopolis, Wash. Filed Aug. 10, 1918. Serial No. 249,237. 6 Claims. (Cl. 143—122.)

1. In a saw mill carriage mechanism, a base, a knee slidingly mounted on said base, power operated means for shifting said knee longitudinally of the base, a block mounted on and carried by the knee and having sliding movement on the knee parallel to the movement of the knee and extending to the front face thereof, the block having ratchet teeth on one face thereof extending rearward, a pawl mounted on the knee and resiliently urged into engagement with the ratchet teeth and having a handle whereby it may be shifted out of engagement with the teeth, and a lever operatively mounted upon the knee



and having operative connection to the block whereby the block may be advanced or retracted relative to the knee.

1,383,545. AUTO-JACK. SAMUEL JOHNSTON, deceased, Port Colborne, Ontario, Canada, by Albert E. Near, executor, Port Colborne, Canada, assignor, by direct and mesne assignments, of one-half to Louis G. Brown, Niagara Falls, N. Y., and one-half to Salathiel Johnston, Bertie township, Ontario, Canada. Filed Sept. 8, 1919. Serial No. 322,481. 2 Claims. (Cl. 254—91.)



1. An auto-jack, comprising a base-frame, a vertically-movable lifting-frame arranged above the same, links connecting said frames and movable lengthwise thereof, a nut swiveled upon the base-frame to rock in a vertical plane, a cross bar connecting an opposing pair of said links, and an actuating screw journaled in said cross bar but held against longitudinal movement therein, said screw engaging said nut.

1,383,546. SPINNER FISH-LURE. EDWARD S. KNOWLES, San Francisco, Calif.; by decree of distribution of estate of said Edward S. Knowles, deceased, to Minnie E. Knowles. Filed Aug. 9, 1919. Serial No. 316,353. 1 Claim. (Cl. 43—45.)



A spinner fish lure comprising a swivel, a spinner, a fish hook, and a rod having a hook at one end passing twice through the spinner and connecting the swivel and fish hook.

1,383,547. RELIEVING ATTACHMENT FOR CLOGGED WATER-CONDUCTORS, DRAIN-SPOUTS, &c. ARTHUR R. KONSALIK, Philadelphia, Pa. Filed Jan. 31, 1919. Serial No. 274,182. 7 Claims. (Cl. 210—90.)



7. A water conductor of the character stated having a cutaway passage in its side wall, a frame adapted to occupy said passage, a strainer in said frame, means for removably retaining said frame in its position in said passage, and a supplemental trap in the conductor above said frame and strainer, said trap being formed of cross members permanently connected firmly at their ends with said wall, one member being provided at the center with a loop in which the center of the other cross member is fitted adapting to interlock said members centrally with each other forming also a doubly sustained brace for said wall above the cut-away portion of the conductor.

1,383,548. COMBINATION HINGE AND CATCH FOR AUTOMOBILE-DOORS. WILLIAM H. KROLL, De Pere, Wis. Filed Dec. 2, 1920. Serial No. 427,783. 5 Claims. (Cl. 16—25.)



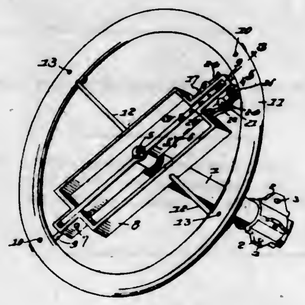
4. A combined door hinge and catch including a hinge, one side of which is engaged with the door and the opposite side engaged with the door frame, a latch bar mounted in said door and engageable with the side of the hinge on the door frame, means mounted upon said latch bar to automatically project the latter into the door frame upon contact of the latch bar with the hinge on said frame, whereby said door is automatically closed after having been operated through a predetermined movement.

1,383,549. DEVICE FOR PRODUCING ACTUATING IMPULSES. GEORGE H. LANG, Boston, Mass., assignor to Stover-Lang Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 10, 1916, Serial No. 83,415. Renewed May 28, 1921. Serial No. 473,320. 2 Claims. (Cl. 230—32.)



1. An impulse-producing member presenting an L-shaped casing, both arms of which are hollow, a driving shaft extending longitudinally of and journaled in one arm, said shaft terminating within the casing and having a crank pin at its inner end, said casing having an opening through which the crank pin is accessible, a plunger mounted for reciprocation in the other arm of the casing, a connecting rod connecting said plunger to said crank pin, a diaphragm connected to said plunger, a cap clamped to the end of the other arm and engaging the periphery of the diaphragm thereby clamping said diaphragm in place, said cap and diaphragm forming between them a chamber, a pipe leading from said chamber, and means to rotate the driving shaft.

1,383,550. LOCKABLE STEERING-WHEEL FOR MOTOR-VEHICLES. JOHN LAWSON, Manito, Ill. Filed Apr. 12, 1920. Serial No. 373,245. 2 Claims. (Cl. 74—83.)



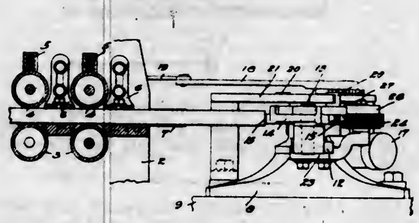
1. The combination with a steering column including a steering rod inclosed therein, of a support fixed to the upper end of said rod, a steering wheel including a frame pivotally mounted on one end of said support, the other end of the frame having a contracted portion provided with opposite sides, spring tensioned means carried by the opposite sides and protruding therethrough and into engagement with one end of the support to hold the wheel in an operative position, the parallel sides of said extension of the frame having depending portions, and means carried by the column engaging between said depending portions, and means connecting the depending portions to the means carried by the column thereby locking the wheel in an inoperative position.

1,383,551. LIFE-SAVING APPARATUS FOR BOATS. FRANK FORBES LOWNDES, Gisborne, New Zealand. Filed Nov. 18, 1919. Serial No. 338,866. 6 Claims. (Cl. 9—3.)



1. In a life saving apparatus for boats, a boat, a keel on said boat, a rail hinged to the keel to swing on an axis parallel with the keel, one rail upon each side of said keel and arranged longitudinally therewith, said rail being positioned at a slight distance from said keel to enable a grip to be secured on said boat when upturned, and whereby the said boat may be righted, substantially as described.

1,383,552. MACHINE FOR TRADE-MARKING OR BRANDING LUMBER OR TIMBER. JOSEPH G. McDONOUGH, Eau Claire, Wis. Filed Sept. 7, 1917. Serial No. 190,158. 29 Claims. (Cl. 101—35.)



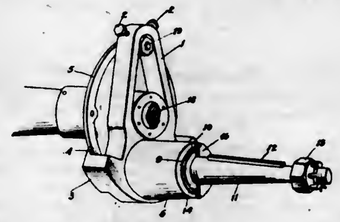
1. The combination, with means for feeding lumber or timber longitudinally, of a trade-marking or identifying device having an oscillating movement in the path of the lumber for marking the vertical end surface thereof, the lumber being marked through the pressure of its feeding movement on the trade-marking device.

1,383,553. CYLINDER-DRYING MACHINE. JOHN McINTYRE, Portobello, Scotland, assignor of one-half to James Milne and Son Limited, Edinburgh, Scotland. Filed June 12, 1919. Serial No. 303,800. 2 Claims. (Cl. 257—96.)

2. A pair of drying cylinders arranged to rotate in reverse directions, a pair of feed rolls arranged in spaced relation and each roll in contact with the upper side of one of the drying cylinders, means to feed material between the drying cylinders and the feed rolls, means to scrape the material from the opposing sides of the feed rolls and to cause it to drop between the drying cylinders, distributing rolls engaging the lower sides of the drying cylinders, and means to scrape the material from the upper sides of the drying cylinders at points near the feed rolls.

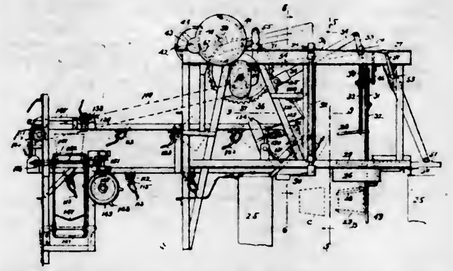
1,383,554. EMERGENCY-AXLE. WILLIAM ALBERT McQUAGGE, Marianna, Fla. Filed Nov. 29, 1920. Serial No. 427,025. 2 Claims. (Cl. 301—130.)

1. A device for the purpose set forth comprising a yoke having a hub extending laterally from one side at its lower end, said hub being provided internally near its opposite ends with annular stop flanges, a spindle fitted through said hub and through said stop flanges, anti-friction bearings interposed between the hub and the spindle



at the ends of the hub and at the outer sides of said stop flanges, and cover plates secured upon the ends of the hub and extending over said bearings.

1,383,555. METAL-COATING MACHINE. JOSEPH MONTO, Cleveland Heights, and ARTHUR R. CURTIS, Cleveland, Ohio; said Curtis assignor to Clarence J. Hays, Cleveland, Ohio. Filed Sept. 26, 1917, Serial No. 193,372. Renewed Oct. 4, 1920. Serial No. 414,619. 34 Claims. (Cl. 91—12.1.)



1. In a metal coating machine, a receptacle for fluid coating material, apparatus for carrying articles to be coated through the material in the receptacle comprising a device for submerging the articles and including relatively and independently movable article gripping members automatically adjustable for different sizes of articles.

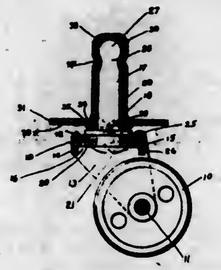
7. In a metal coating machine, a receptacle for fluid coating material, apparatus for passing articles through the material in the receptacle comprising a device having means for receiving, and lifting the articles from the coating material, and having means for giving the articles a turning movement independent of the lifting movement.

1,383,556. NAIL-SCISSORS. RUDOLF MÖTHE, Solingen, Germany. Filed Sept. 18, 1920. Serial No. 411,303. 1 Claim. (Cl. 132—73.)



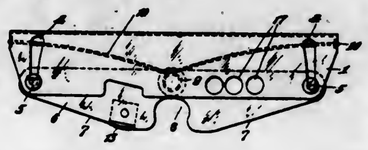
The combination with a pair of nail-scissors, of a lug on one of the cutting-members of the latter, and a separate nail-cleaning instrument having a shell-like handle and adapted when not in use to engage with the latter over the sharp ends of the cutting-members of said pair of nail-scissors and with its free end in said lug, substantially as and for the purpose set forth.

1,383,557. CASTER. WILLIAM H. NOELTING, Evansville, Ind. Filed July 6, 1920. Serial No. 394,256. 5 Claims. (Cl. 16—4.)



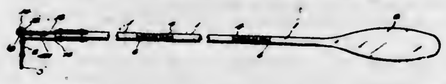
2. A caster including a stem, a roller and a yoke, including a pair of ears rotatably supporting a roller, said yoke including an upwardly extending bead portion, and a downwardly extending apron portion positioned between said ears and independently thereof, said bead portion extending transversely of said ears.

1,383,558. OUTSIDE LOCK-OFF AND CENTER STOP FOR ELECTRICAL SWITCHES. ARCHIE OAKES, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed June 16, 1918. Serial No. 239,724. 9 Claims. (Cl. 200—1.)



1. A center stop for double throw switches comprising a fixed member, a notched movable member attached thereto, and a spring between said members, said fixed member having slots therein, and coöperating pins on said movable member.

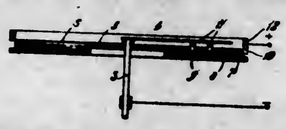
1,383,559. BOAT-PROPELLING POLE. ALFRED N. OLSEN, Rock Rapids, Iowa, assignor of one-half to Samuel D. Riniker, Rock Rapids, Iowa. Filed Feb. 12, 1921. Serial No. 444,506. 2 Claims. (Cl. 9—24.)



1. A device for the purpose set forth comprising a pole, a plate secured to and projecting from the end of the pole, a foot hinged to said plate, said plate being provided with a stop outwardly beyond the hinged connection of the foot to the plate to limit the movement of the foot away from the pole, and an abutment projecting from the end of the pole and spaced from the plate to be engaged by the foot and limit the movement thereof toward the pole.

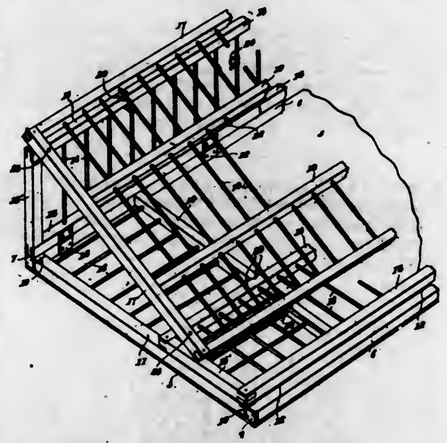
1,383,560. WORKING-TIME INDICATOR. HENRI OSIECK, Amsterdam, Netherlands. Filed Feb. 20, 1920. Serial No. 360,090. 3 Claims. (Cl. 58—19.)

1. A working time indicator, comprising a circular, graduated time plate; a graduated work plate disposed concentrically with the time plate and rotatable about its axis to vary the position of its graduations relative to those of said time plate; a clockwork-driven hand movable over the graduations of both plates; a conductor fixed to the work plate to rotate therewith and having a pair of contacts, one of which is disposed in the path of said hand; an annular conductor disposed concentrically with the work plate and engageable by the other contact on the first-named conductor in any position of said work



plate; and an electric circuit wherein the hand and the annular conductor are included, said circuit being closable by the engagement of said hand with the first-named contact.

1,383,561. SHIPPING-CRATE. MICHAEL F. A. O'TOOLE, Baltimore, Md. Filed Feb. 28, 1920. Serial No. 361,984. 6 Claims. (Cl. 217—47.)



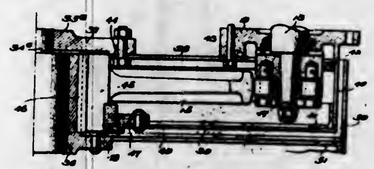
1. A collapsible shipping crate comprising a bottom wall member having end and side walls hinged thereto upon horizontal pivots, a top wall member, and means operatively connecting said top wall member to the side wall members whereby manipulation of the top wall member will effect raising and lowering of said side wall members to their collapsed or expanded position, said means comprising loops loosely and slidably connected to the top and side wall members.

1,383,562. LOCK. OLIVER M. PADDLEFORD, Los Angeles, Calif. Filed Mar. 22, 1920. Serial No. 367,698. 15 Claims. (Cl. 70—53.)



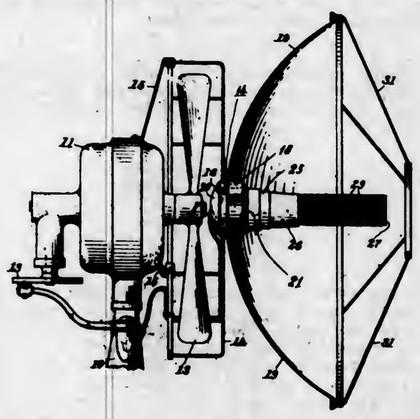
1. In an improved lock, the combination of a bolt-receiving member having a longitudinal cylindrical bore leading from its interior to its exterior, and a bolt-carrying member having a lateral slotted portion concentric with said cylindrical bore, of a bolt mounted within said bore, and having in its periphery a longitudinal notched portion, lock members located within the lateral slotted portion of the bolt-receiving member and rotatably surrounding the bolt, said lock members being provided with a plurality of internal notches, a key carried by said bolt and adapted for partial reception in said longitudinal notched portion of the bolt, and for registration with certain of the internal notches of the lock members, and means coöperating with said lock members and carried by the bolt-receiving member for indicating when the lock members have been properly set, so that the key will fall within certain of the internal notches of the lock members and permit the bolt to be rotated and axially shifted, said longitudinal notched portion in the periphery of the bolt being provided with an abrupt wall portion and a portion which opens outwardly, so that the bolt may be rotated freely in one direction, but limited as to its rotation in a counter direction when the key comes into contact with the abrupt wall portion.

1,383,563. TRACTOR. HUGH PARTRIDGE, Jacksonville, Fla., assignor to Partridge Tractor Company Inc., Jacksonville, Fla., a Corporation of Florida. Filed Feb. 20, 1920. Serial No. 360,122. 3 Claims. (Cl. 74—7.)



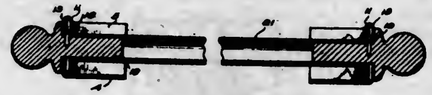
2. In a tractor, in combination, a pair of substantially oppositely-located traction wheels, a longitudinal main shaft, a pair of transverse aligning jack shafts geared to the respective traction wheels to drive the latter at reduced speed, the gearing comprising an externally toothed gear wheel on one traction wheel, an internally toothed gear wheel on the other traction wheel, and pinions on the respective jack shafts in mesh with the corresponding toothed wheel, the axes of the tration wheels being offset in a common horizontal plane, and gearing for driving the jack shafts comprising confronting coaxial driving wheels on the respective jack shafts, and propelling means located between said driving wheels and coöperative therewith to drive them in reverse directions.

1,383,564. HEATING APPARATUS. EMIL PHILLIPSON, New York, N. Y. Filed May 28, 1920. Serial No. 384,982. 13 Claims. (Cl. 219—42.)



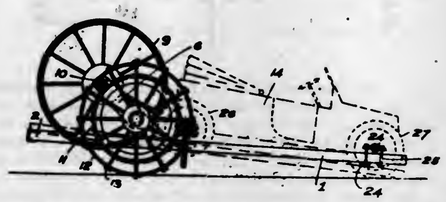
1. An apparatus of the character described comprising a support, heat-emitting means mounted thereon, and means for moving said heat-emitting means relatively to said support, substantially as specified.

1,383,565. DEVICE FOR HOLDING CARPETS. JOHN P. RASMUSSEN, Ironwood, Mich., assignor of one-half to George A. Curry, Ironwood, Mich. Filed Jan. 21, 1921. Serial No. 438,984. 2 Claims. (Cl. 16—141.)



1. A stairway carpet holding device, comprising a pair of L-shaped brackets adapted to fit in the corner between the tread and riser of the step, one of said brackets being arranged adjacent each edge of the carpet, a plate secured to each arm of said bracket, said plates being arranged adjacent each other and substantially parallel to the edge of the carpet, and being provided with registering openings, a rod of substantially the same length as the distance between said brackets, and securing means passing through the openings in said plates and secured in the ends of said rod.

1,383,566. HEAVY-TRACTION ATTACHMENT SUITABLE FOR MOTOR ROAD-VEHICLES. RICHARD REYNOLDS and HARRY GIBBS, Birkenhead, England. Filed June 29, 1918. Serial No. 242,593. 1 Claim. (Cl. 180—16.)



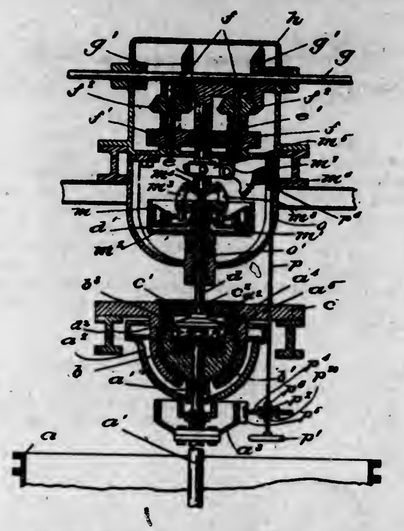
An attachment for motor vehicles comprising a wheeled frame adapted to be pivoted to a forward portion of a vehicle, a driving connection between the rear vehicle wheels and the wheels of the frame, a supporting member mounted on the frame, and a device carried by the supporting member for vertically adjusting the rear portion of the vehicle with respect to the frame, said supporting member being longitudinally adjustable with respect to the frame to permit application of the attachment in predetermined relation with vehicles of different lengths.

1,383,567. DRIVE FOR GYRATORY CENTRIFUGAL MACHINES. EUGENE ROBERTS, Salt Lake City, Utah, assignor to The Western States Machine Company. Filed Apr. 28, 1917. Serial No. 165,158. 12 Claims. (Cl. 74—7.)

1. A driving system for centrifugal machines embracing in combination a continuously rotating line shaft, a plurality of centrifugal machines having rotary gyratory basket-carrying shafts suspended at their upper ends below said line shaft, a non-gyratory intermittently driven shaft mounted above each gyratory basket shaft in vertical alinement therewith, a power-transmission shaft arranged co-axially with each intermittently driven shaft, driving gear connections operatively connecting the line shaft with each transmission shaft, a clutch forming a driving connection between each transmission shaft and its coöperating intermittently driven shaft and means for releasing each clutch from operative engagement, whereby each centrifugal may be started or stopped independently of the others, substantially as described.

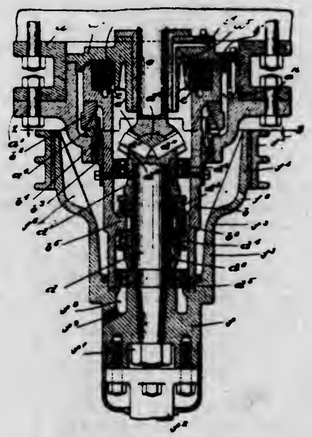
9. The combination with a suspended gyratory centrifugal machine, of an overhead vertically alined non-oscillatory shaft flexibly connected with the centrifugal machine to drive the machine, a power transmission shaft, a main line shaft, and gearing operatively connecting the transmission shaft to the main line shaft, and an auto-

matically operated centrifugal clutch arranged to form a driving clutch between the transmission shaft and said vertically alined shaft, substantially as described.



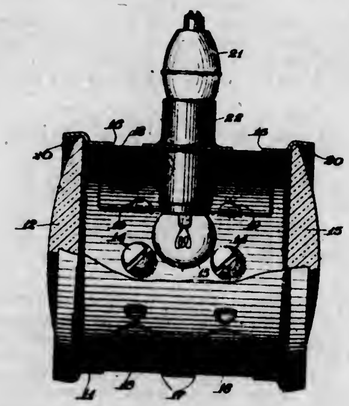
11. The combination of a gyratory centrifugal machine, a power transmission shaft vertically alined with the shaft of said centrifugal, intermediate connections embracing a clutch and flexible coupling members, a brake mechanism, and means having engagement with both the brake mechanism and the clutch and acting to release the clutch when it sets the brake, substantially as described.

1,383,568. MEANS FOR MOUNTING AND DRIVING CENTRIFUGAL MACHINES. EUGENE ROBERTS, Salt Lake City, Utah, assignor to The Western States Machine Company. Filed Feb. 14, 1918. Serial No. 217,156. 17 Claims. (Cl. 64—48.)



1. A driving mount for centrifugal machines embracing in its construction an oscillatory bearing head provided with internal bearings for rotatably supporting the lateral and vertical thrust of the gyratory basket shaft, a curved bearing seat affording a support for said bearing head above the plane of its center of oscillation, a rotary basket shaft supported on said internal bearings to oscillate with said head, a centralising buffer having operative engagement with said bearing head to yieldingly oppose its oscillatory movements, and a power transmitting shaft mounted co-axially above said basket shaft and having jointed driving connection with said basket shaft, substantially as described.

1,383,569. PARKING-LIGHT. JOHN J. ROHDE, Milwaukee, Wis., assignor of one-half to J. Elmer Lehr, Milwaukee, Wis. Filed Mar. 21, 1918. Serial No. 223,829. 1 Claim. (Cl. 240—11.)



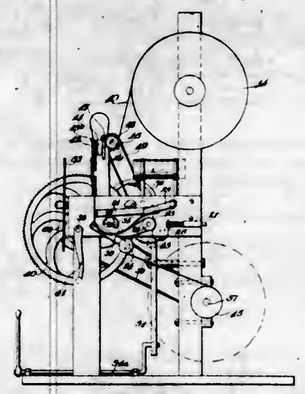
A parking light for automobiles comprising a casing, means distinct from the license bracket for connecting the casing to the automobile to be in sight from the front, rear and side thereof and adjacent the license plate and with its axis extending longitudinally of the automobile, an electric lamp within the casing, a clear glass lens for the front and a red glass lens for the rear of the casing, openings in the side of the casing to project light onto the license plate and to the side of the car, and transparent coverings for said openings whereby a white light is projected to the front and side of the vehicle and a red light to the rear of the automobile simultaneously with the illumination of the license plate.

1,383,570. CHECK, DEPOSIT, AND REMITTANCE TRAY. WILLIAM F. SCHNELL, Kalispell, Mont. Filed July 20, 1920. Serial No. 397,646. 1 Claim. (Cl. 211—37.)



A tray of the class described including side walls connected at the rear by a rear wall, the lower margins of the side walls being turned inwardly to provide a base, a floor arranged between said side walls, said floor being inclined upwardly and terminating approximately midway the ends of said side walls, and a blank one end of which has its inception at the upper margins of the side walls, at a point above said floor, extends downwardly at an inclination past the rear end of the floor and is engaged with the latter, said blank being extended upwardly and then downwardly, in substantially inverted V-shape and engaged with said rear wall.

1,383,571. MOVING-PICTURE MACHINE. ARTHUR H. SEELEY, Chicago, Ill., assignor to Edgar R. Seeley, Chicago, Ill. Filed Mar. 3, 1919, Serial No. 280,285. Renewed Nov. 12, 1920. Serial No. 423,758. 4 Claims. (Cl. 88—18.6.)



1. In a moving picture machine, an oscillating beater for advancing the film, said beater being resilient and bowed to form the film into a loop, a pivoted support for the beater, a pivoted actuating arm connected to the beater, a rotatable cam engageable with the arms for swinging the same in one direction, and means for giving the arm a return stroke,

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1,383,572. ANTILEAK COMPOSITION. WILL N. SHRUM, Dallas, Tex., assignor to Fred E. Tennant, James W. Jewell, and Clifford F. Merritt, Dallas, Tex. Filed Jan. 16, 1919, Serial No. 271,517. Renewed Jan. 21, 1921. Serial No. 439,053. 1 Claim. (Cl. 134—17.5.)

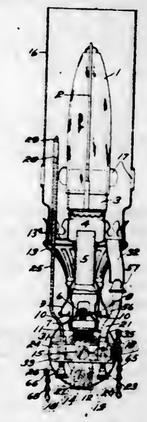
A composition for stopping leaks in radiators, boilers, etc., consisting of finely ground paper, one and one half pounds, comminuted asbestos, one pound, two gallons of a starchy paste, one half ounce of gum arabic or an equivalent gum, one half ounce resin, a suitable deodorizer, one half ounce salicylic acid, and one eighth of a pint of alcohol, all added to a sufficient amount of water to equal ten gallons.

1,383,573. THERMOSTATICALLY-CONTROLLED VALVE. RAYMOND D. SMITH, Milton, Mass., assignor to Shawmut Machine Works, Inc., Boston, Mass., a Corporation of Maine. Filed July 24, 1916, Serial No. 110,950. Renewed Oct. 4, 1920. Serial No. 414,648. 25 Claims. (Cl. 67—87.)



1. In combination; a main conduit for a heat productive fluid; a valve connected in said conduit to govern the flow of said fluid therethrough; mechanism adapted automatically to actuate said valve; a thermostat arranged to be operatively energized by heat from a diverted portion of said fluid, and to govern the automatic actuation of said valve; an auxiliary conduit for conducting said diverted fluid portion, and arranged to be closed when said valve is normally opened; and control means for separately opening said auxiliary conduit, to energize said thermostat, thereby to effect a designed automatic actuation of said valve.

1,383,574. DELAYED CUT-OFF FOR INCANDESCENT GAS-LAMPS. RAYMOND D. SMITH, Milton, Mass., assignor to Shawmut Machine Works, Inc., Boston, Mass., a Corporation of Maine. Filed Aug. 2, 1916, Serial No. 112,828. Renewed Oct. 4, 1920. Serial No. 414,649. 2 Claims. (Cl. 67—87.)

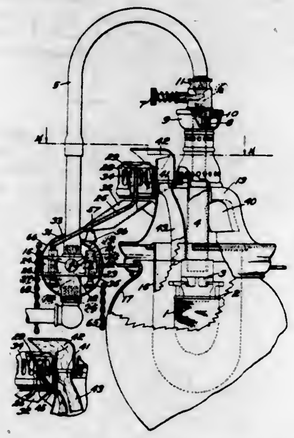


1. In an upright mantle gas lamp and controlling valve arrangement embodying a Bunsen burner stem and automatic agencies for governing the valve, said agencies including an auxiliary heater burner arranged laterally of said Bunsen stem, in combination; a mantle-carrying lamp structure removably mounted on the Bunsen stem above said auxiliary burner and comprising a transparent chimney and holder therefor, the latter having an annular floor portion at the base of said chimney separating the mantle from said auxiliary heater burner; and an open-ended gas-directive tube opening through and protruding downwardly from the floor portion of the removable chimney holder and carried thereby in a position to terminate at its lower end directly above the flame orifice of said auxiliary burner.

1,383,575. DELAYED CUT-OFF FOR INVERTED GAS-LAMPS. RAYMOND D. SMITH, Milton, Mass., assignor to Shawmut Machine Works, Inc., Boston, Mass., a Corporation of Maine. Filed Aug. 7, 1916, Serial No. 113,546. Renewed Oct. 4, 1920. Serial No. 414,650. 13 Claims. (Cl. 67—87.)

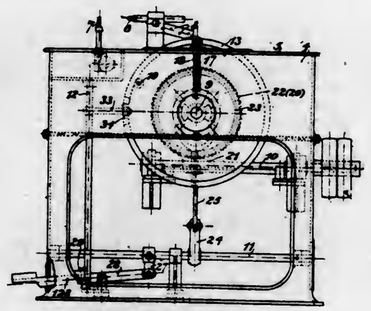
1. The combination, in an inverted mantle gas lamp, having a gas conductive goose neck connecting the same with a laterally located fuel control valve and embodying a downwardly directive Bunsen tube for the gas and air mixture arranged with an air inlet near the top thereof and an outlet for the fuel mixture at its bottom end whereat is suspended the illuminating mantle,—of an auxiliary burner at the valve end of said goose neck connected to be also governed as to fuel supply by said valve and constituting part of automatic agencies for controlling closure thereof; a pilot burner constantly supplied with gas independently of said valve, positioned intermediate

said Bunsen tube outlet and said auxiliary burner and at a higher level than either; and separate means for collecting gas issuing respectively from the said Bunsen tube outlet and from said auxiliary burner; said means



being arranged to direct said gas into common proximity to the flame of the pilot burner, so that either said mantle burner or said auxiliary burner when supplied with gas is ignitible independently of the other directly by said flame.

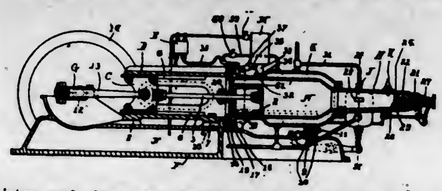
1,383,576. MACHINE FOR STRAIGHTENING WIRE. MARIUS METHILTUS SÖRENSEN, Valleröd, near Rungsted, Denmark. Filed July 16, 1919. Serial No. 311,306. 5 Claims. (Cl. 140—147.)



1. Machine for straightening out pieces of wire, consisting of a straightening member, a rotating tension member, a means for securing the wire on the latter member, and means for automatically stopping the tension member after each revolution.

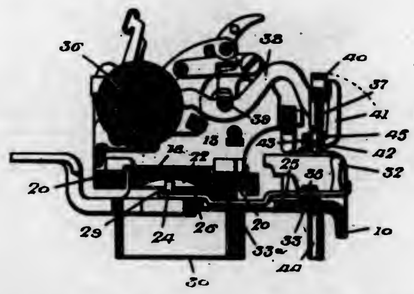
1,383,577. COMBUSTION-ENGINE. WILLIAM A. SORG, Denver, Colo. Filed Apr. 7, 1919. Serial No. 287,936. 7 Claims. (Cl. 123—196.)

1. A combustion engine, comprising, in combination, a cylinder, a piston in said cylinder, fuel and exhaust valves connected with said cylinder, a closed chamber on the outer end of said cylinder immediately below said piston, said cylinder having a small longitudinal channel in its inner surface connecting the spaces on both sides of said piston in said cylinder when the piston reaches the end of its power strowe, whereby a small amount of spent gas and lubricating medium are received from the space in said cylinder into said closed chamber at the end of said power stroke and spread over the inner end of said



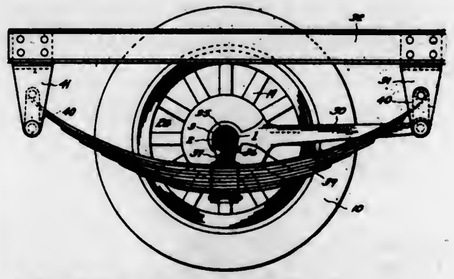
piston and the walls of said closed chamber to prevent precipitation and carbonization of particles of heavy liquid fuel by chilling.

1,383,578. INTERCHANGEABLE CARRIAGE. CHARLES SPIRO, New York, N. Y., assignor to Federal Adding Machine Corporation, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1920. Serial No. 358,504. 17 Claims. (Cl. 197—60.)



1. In a typewriter, a frame, a carriage base adapted to be mounted thereon, interlocking means between said base and frame, feeding mechanism for controlling the travel of said carriage, and a unitary device for controlling the interlocking means and said feeding mechanism.

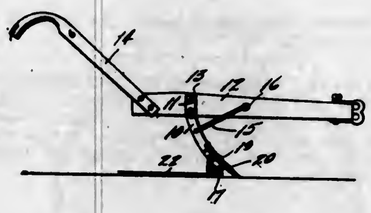
1,383,579. SPRING-HANGER FOR AUTOMOBILES. CHARLES E. STARR, Bellingham, Wash., assignor to Perfecto Gear Differential Co., Bellingham, Wash., a Corporation of Washington. Filed Apr. 7, 1920. Serial No. 371,816. 5 Claims. (Cl. 180—73.)



1. In a vehicle of the class described, the combination with a longitudinal frame member, a ground wheel, a driving axle for the wheel, a housing for the axle, driving mechanism for the wheel which, in operation, tends to rotate the housing oppositely to the direction of the wheel and means for substantially preventing movement of the wheel axle longitudinally with respect to the frame, of a suspending member fixed to the housing to turn therewith, a spring pivotally supported by said member, means for

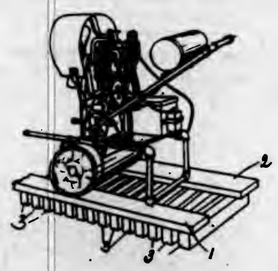
supporting the frame member from the spring and permitting longitudinal shifting of the spring relative to the frame in accordance with the movement of the suspending member.

1,383,580. PEANUT-DIGGER. SHED P. STEVENS, Buffalo, Tex. Filed June 18, 1920. Serial No. 389,828. 2 Claims. (Cl. 97—26.)



1. In a peanut digger, a beam, handles secured to the rear portion of the beam, a standard depending from the beam formed of a single bar bent upon itself between its ends forming a relatively narrow loop, said bar diverging upwardly from the top of the loop to form a frame having substantially parallel sides, said sides being arranged outwardly of the sides of the beam and having their upper ends bent inwardly and upwardly forming extensions engaging the sides of the beam, means for securing the extensions to the beam, diagonal braces connecting the sides of said frame and beam, a plow share extending upwardly and increasing in width upwardly and being relatively wide and contacting with the forward face of the sides of said frame, a slide arranged rearwardly of the standard and having an upstanding bracket engaging the rear side of said loop, and a bolt passing through the loop and connecting the plow share and bracket.

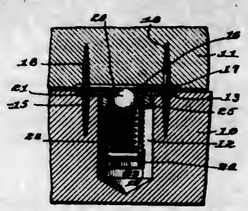
1,383,581. PAVING APPARATUS. ROBERT C. STUBBS, Dallas, Tex. Filed July 25, 1919. Serial No. 313,213. 3 Claims. (Cl. 94—48.)



1. In an apparatus for imparting vibrations provided with a vibrating machine, means for transmitting the vibrations of the vibrating machine consisting of stringers and cross-bars spaced apart attached to said stringers, said stringers forming tracks for the vibrating machine and said cross bars having greater depth than width.

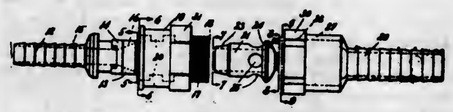
1,383,582. PRESSER DEVICE. RUPERT I. STUBBS, Delta, Pa. Filed Jan. 21, 1921. Serial No. 438,929. 8 Claims. (Cl. 16—77.)

5. In a presser device, a barrel provided with exterior screw threads, a resiliently mounted presser element within the barrel, a securing plate provided with screw threads and adapted to be moved along the barrel, and a



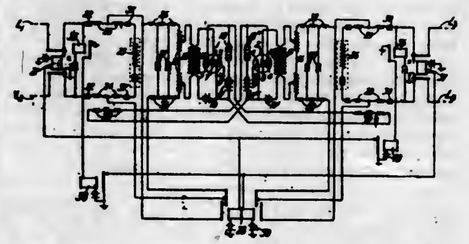
nut coöperating with said securing plate and barrel for locking the plate in a fixed position to said barrel.

1,383,583. HOSE-COUPLING. JAMES M. TOWLE, West Somerville, Mass., assignor of one-half to Louis I. Beckwith, Boston, Mass. Filed Dec. 24, 1919. Serial No. 347,079. 3 Claims. (Cl. 284—18.)



1. A device of the class described comprising a receiver member a portion of which forms an enlarged cup screw threaded internally, a tubular connector member having an end adapted to screw into the screw threaded cup of the receiver member, and an enlarged cup shaped portion, a valve seat formed in the connector member, a cylindrical valve fitting closely in said tubular connector, said valve having an enlarged closed head with a shoulder formed thereon adapted to fit the valve seat in the connector member, having an externally beveled opposite end, and having a longitudinally extending cylindrical cavity therein, a plurality of openings extending from said cavity through the side of the valve member, said openings being closed by the connector member when the valve is seated, the enlarged cup shaped portion of the connector having oppositely placed internally extending lugs, and a tubular coupling member, one end of which is adapted to fit into the connector member, and is internally beveled to fit the beveled portion of the valve member, the median portion of the coupling member having oppositely extending external lugs adapted to pass between and beyond the internally extending lugs of the connector member, and to be locked behind said lugs when the coupling member is given a quarter turn.

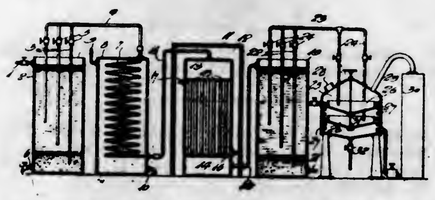
1,383,584. TELEPHONE SYSTEM. RAY S. WILBUR, Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 27, 1918. Serial No. 268,500. 6 Claims. (Cl. 179—170.)



2. In combination with a telephone transmission line, a repeater, an input circuit for said repeater bridged across

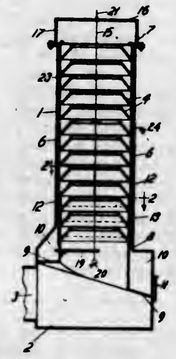
said line, an electromagnetic ringing current responsive device also bridged across said line and tuned to respond to currents of ringing frequency, and impedance means included in said repeater bridge presenting high impedance to currents of ringing frequency.

1,383,585. PROCESS FOR DISTILLING OR RECOVERING NAPHTHA OR OTHER HYDROCARBONS FROM WOOL-FAT SOLUTIONS. CHRISTOPHER N. WILSON, Lawrence, Mass. Filed Nov. 24, 1919. Serial No. 340,085. 4 Claims. (Cl. 87—6.)



1. A process for the distillation of naphtha or other hydrocarbon solvents which have been used for the extraction of grease from wool, consisting of subjecting the liquid containing the solvent and the grease and other impurities to cold, then allowing the liquid to stand until the substances congealed by subjecting it to cold settle, and finally volatilizing the solvent out of the liquid.

1,383,586. ART OF SEPARATING SUSPENDED PARTICLES FROM GASES. EDSON RAY WOLCOTT, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Aug. 27, 1917. Serial No. 188,461. 8 Claims. (Cl. 183—7.)



4. An electrical precipitator comprising discharge electrode means, means for conducting a stream of gas past said discharge electrode means, receiving electrode members with open spaces therebetween, said members extending transversely of and defining the gas stream and spaced from the discharge electrode, means to provide a series of strong electrical field zones adjacent to said receiving electrode members, alternating with a series of weak electrical field zones at the spaces between said receiving electrode members, and outlet means for precipitated material, communicating unobstructedly with said spaces between the receiving electrode members, to receive the precipitated material passing outwardly in said spaces.

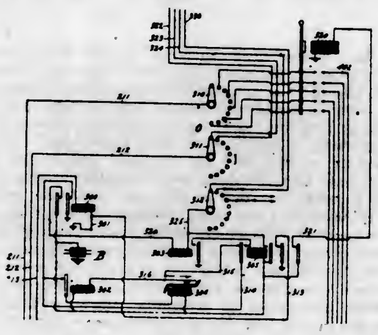
1,383,587. TAPE-MEASURE. LOUIS E. WOOD, Farrell, Pa. Filed June 7, 1920. Serial No. 387,231. 11 Claims. (Cl. 242—84.8.)

1. In a device of the class described, a casing having a rotatable side plate, a rotatable member within said casing, and an inwardly foldable handle carried by said side plate, said handle and said rotatable member having co-



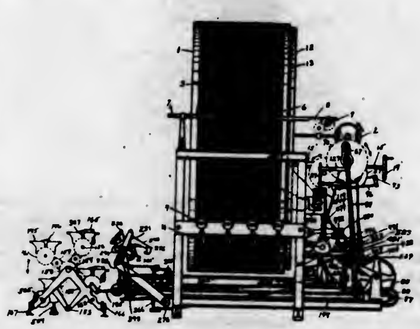
acting driving means coöperable when the handle is extended for use.

1,383,588. SEMI-AUTOMATIC TELEPHONE-EXCHANGE SYSTEM. JOSEPH L. WRIGHT, Cleveland, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 29, 1915. Serial No. 58,569. 31 Claims. (Cl. 179—27.)



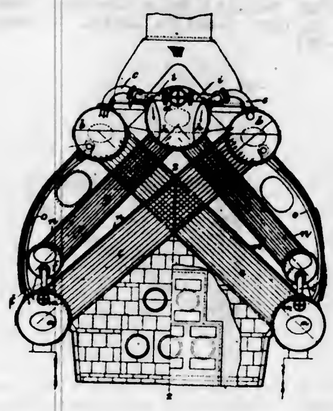
31. In a telephone exchange system, the combination of a connector switch, a trunk switch for effecting connection with said connector switch, means independent of said trunk switch for selecting said connector switch, means for operating said connector switch when selected to render it unselectable, and means controlled by said trunk switch to again render said connector switch selectable.

1,383,589. COLOR-PRINTING MECHANISM. CLINTON ALVORD, Worcester, Mass. Filed Aug. 5, 1920. Serial No. 401,324. 279 Claims. (Cl. 101—172.)



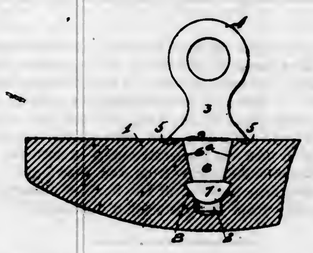
1. In combination, color applying mechanism, a source of color supply therefor, jacquard means for automatically transferring color from said supply to said mechanism, and means to actuate said mechanism.

1,383,590. WATER-TUBE STEAM-BOILER. ROBERT BAYLIS ARMSTRONG, Newcastle-upon-Tyne, England, assignor to himself and R. & W. Hawthorn Leslie & Company, Limited, Newcastle-upon-Tyne, England. Filed Dec. 7, 1918. Serial No. 265,781. 3 Claims. (Cl. 122—478.)



1. In a water tube boiler, a superheater comprising an upper steam drum, two lower drums, fixed longitudinal partitions dividing said upper drum into three compartments, banks of tubes connecting each of said lower drums with the upper drum, some of each bank of tubes connecting at their upper ends with an outer compartment and some with the middle compartment, a steam inlet connection to each outer compartment, a steam outlet from the middle compartment, a water inlet to each lower drum, a by-pass connection between the compartments of the upper drum, and valves controlling said by-pass connection and said water inlets, substantially as described.

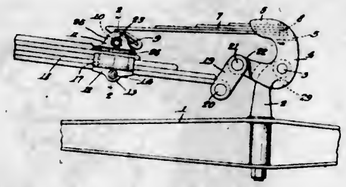
1,383,591. BUTTON. LLOYD A. ANGLE, Rochester, N. Y., assignor to Arts in Buttons, Inc., Rochester, N. Y., a Corporation of New York. Filed Aug. 22, 1918. Serial No. 251,035. 5 Claims. (Cl. 24—90.)



1. A button comprising a button body of resilient material, and a shank embedded in said body and having an anchoring portion formed with an enlargement and a base having a cross-section at least equal to the cross-section of the enlargement.

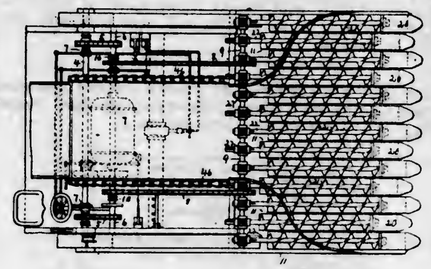
1,383,592. SHOCK-ABSORBER. ALBERT N. ANTHES, Fort Madison, Iowa. Filed Oct. 7, 1920. Serial No. 415,233. 3 Claims. (Cl. 267—19.)

2. In a device of the class described, the combination of a U-shaped stirrup adapted to be pivotally mounted in position to be operatively connected with and provide a support for the end of the main spring of the vehicle, a leaf spring rigidly attached to the other end of the pivot member, said leaf spring terminating in an angularly bent end portion, a clip mounted on the main spring, said clip carrrying a rotatable roller on which the angularly bent end of the aforesaid spring is adapted to ride, means



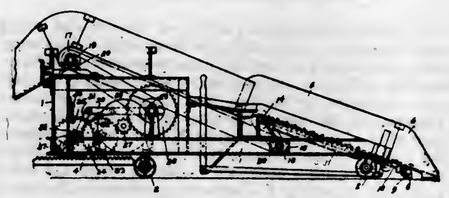
to limit the tilting movement of the stirrup, the clip having slottted side and top plates and having oiler members positioned on the top and sides adjacent the main spring, each of the side oilers being in contact with the top one.

1,383,593. LOADING-MACHINE. GEORGE R. BENNETT, Pittsburgh, Pa., assignor to Albert M. Hanauer, Pittsburgh, Pa. Filed Nov. 1, 1918. Serial No. 260,741. 8 Claims. (Cl. 193—49.)



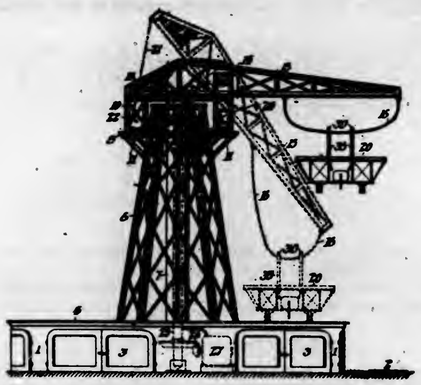
1. In a loading mechanism the combination of a plurality of shovels, means for moving material along said shovels, means for alternately reciprocating the shovels longitudinally and means for carrying the material away from the shovels.

1,383,594. LOADING-MACHINE. GEORGE R. BENNETT, Glen Osborne, Pa., assignor to Albert M. Hanauer, Pittsburgh, Pa. Filed Feb. 5, 1917. Serial No. 146,706. Renewed Mar. 5, 1921. Serial No. 449,746. 2 Claims. (Cl. 193—51.)



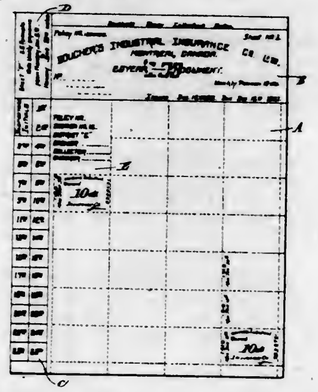
1. In a loading machine the combination of a truogh consisting of pivotally connected sections, the front section consisting of a plurality of independent fingers, means for forcing the front section under the material to be loaded, means for vibrating the fingers forming the front section and means arranged in the trough adapted to pass under the material lifted by the fingers and shift the same to the rear of the machine.

1,383,595. AIRPLANE LANDING AND LAUNCHING MECHANISM. JOHNNY S. BLACK, New York, N. Y. Filed Feb. 25, 1920. Serial No. 361,311. 15 Claims. (Cl. 244—2.)



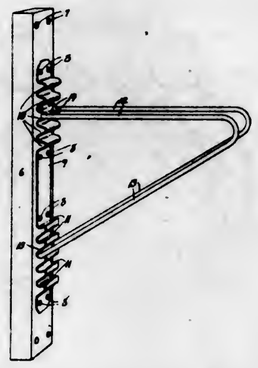
1. In mechanism of the class described; a jib mounted to revolve azimuthally, and a cable secured to the radially outer end of said jib in a bight flexible both radially and circumferentially with respect to the center of revolution of said jib; and means holding said cable with both ends fixed on said jib.

1,383,596. RECEIPT-FORM. JOSEPH ARTHUR BOUCHER, Montreal, Quebec, Canada. Filed Dec. 10, 1918. Serial No. 266,086. 1 Claim. (Cl. 283—54.)



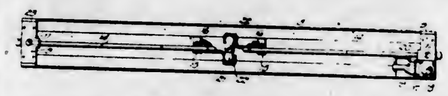
A contract form designed to cover a contract and calling for a number of serial payments comprising a sheet ruled with horizontal and vertical lines to provide a series of coupons on its face, the said coupons extending to one side and one bottom of the face, and having printed on the back thereof the numerical order of the serial payment, each coupon further having printed on the face thereof the amount of the payment and the serial number of the contract; a space B above the coupon in which the terms and serial number of a contract are printed, and a series of numbered rectangular checking spaces C immediately to one side of the coupons, each of the numbers on the checking spaces corresponding with one number of the numerated payments printed on the back of the coupons, each form further having a space E bounded by the rectangular checking spaces, the coupons and the space B and having printed thereon particulars as to the serial number of the contract, division of the territory for the distribution of the forms, cashier, collector, checker, and a space D above the rectangular checking space C and adjacent to the space B, having particulars as to the number of receipts and the number of the sheet of the contract imprinted therein.

1,383,597. ADJUSTABLE BRACKET FOR GAS-METERS. THOMAS R. BRUCE, New Haven, Conn. Filed Mar. 21, 1921. Serial No. 453,878. 3 Claims. (Cl. 248—19.)



2. An adjustable gas-meter bracket having a mounting-strip, a sheet-metal bracket-plate applied thereto, and having its upper end transversely corrugated to produce sockets and its lower end transversely corrugated to produce bearing-seats; and a one-piece bracket-wire adapted to be applied to the upper and lower corrugations of the said plate with respect to which it is vertically adjustable.

1,383,598. LOCKING-RACK. CHARLES E. CAMPBELL, Lynn, Mass. Filed Sept. 14, 1916. Serial No. 120,186. 2 Claims. (Cl. 45—13.)

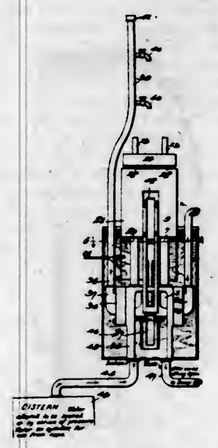


2. A rack having, in combination, a base member arranged to be secured to a wall; a pair of posts mounted at each end of the base member; a bar slidingly mounted on the posts; a series of coöperating corrugations formed on the opposing faces of the base and bar and extending longitudinally of said base and bar; means operable independently to lock the respective ends of said bar to the posts at variable distances from the base; and unitary means located near one end of the bar for unlocking both ends of the bar from the posts simultaneously.

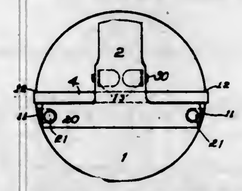
1,383,599. WATER-ELEVATING APPARATUS. ERNEST O. CARTWRIGHT, Springfield, Ohio, assignor to Charles F. Gardner, Springfield, Ohio. Filed June 10, 1919, Serial No. 303,068. Renewed May 19, 1921. Serial No. 470,946. 12 Claims. (Cl. 103—67.)

1. An apparatus of the class described, a primary and a secondary cylinder joined together, relatively fixed primary and secondary pistons coöperative with said cylinders, means including a shiftable valve device for delivering pressure fluid to the primary cylinder and exhausting the same therefrom to raise said cylinder and allow the same to fall again, means including a shiftable valve device for admitting water from a source of supply into said secondary cylinder as said cylinders rise and permitting

the same to be expelled from said secondary cylinder as the cylinders fall, a source of pressure fluid supply coöperative with said primary cylinder and a source of service water supply and a service delivery piping system coöperative with said secondary cylinder.

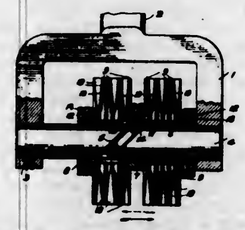


1,383,600. CAN OPENING AND PROTECTING DEVICE. MARGRET M. CODY, Seattle, Wash., assignor of one-half to James M. Cody, Seattle, Wash. Filed Aug. 19, 1919. Serial No. 318,566. 2 Claims. (Cl. 220—51.)



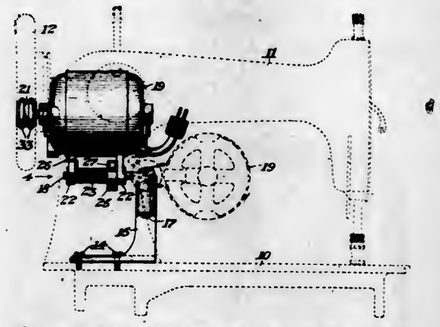
1. A milk can opening and protecting device comprising a cap adapted to fit over the top of a can, a T-shaped lever fixed upon the cap and pivoted upon a horizontal axis, and having can-piercing points at opposite ends of the head of said lever adapted to pierce the can head at opposite sides, the cap having holes only large enough for the passage of said points and positioned therebeneath, and a spring normally holding this end of the lever down upon the cap.

1,383,601. GRINDING-WHEEL-TRUING TOOL. EDWARD R. CONNERS, Cincinnati, Ohio, assignor to The Precision Truing Machine & Tool Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 9, 1920. Serial No. 395,025. 4 Claims. (Cl. 125—37.)



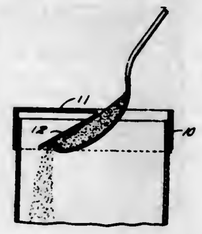
3. In a tool of the class described, a handle member, a shaft fixed upon said handle member, having an annular inclined groove about its periphery, a sleeve rotatable and slidable longitudinally upon said shaft, having an element engaged into said annular groove of said shaft, and abrading disks clamped upon the sleeve.

1,383,602. ELECTRIC-MOTOR-SUPPORTING ATTACHMENT FOR SEWING-MACHINES. HENRY W. CORNING, Cleveland, Ohio. Filed Jan. 27, 1920. Serial No. 354,452. 6 Claims. (Cl. 74—26.)



1. In combination with a sewing machine having a driving wheel, of a bracket on the machine having a vertical socket and positioning notches at the upper end thereof, a horizontal bracket arm resting on the upper end of said bracket and having a pivot loosely fitting the socket therein, and a motor having a pulley for driving engagement with the machine wheel and being mounted on said bracket arm to be shifted thereby to and from its operative driving position, the said arm engaging within the said notches of the bracket to be held stationary thereby in different predetermined positions.

1,383,603. TEASPOON AND TABLESPOON LEVELER. HAROLD B. CRAIG, Springfield, Mass. Filed Nov. 16, 1920. Serial No. 424,355. 5 Claims. (Cl. 220—90.)



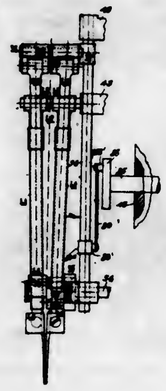
1. A device of the character described consisting of a supporting band, a plate connected to and supported by said band and partially free therefrom, the free portion of said plate inclining inwardly and downwardly and forming a reverting lip for the purpose described.

5. A device of the character described consisting of a supporting band, a plate connected to and supported by said band and partially free therefrom, the free portion of said plate inclining inwardly and downwardly and forming a reverting lip, said lip having a terminal upstanding extension attached to the lower surface of the plate as described.

1,383,604. SEWING-MACHINE. FRANÇOIS CROZET, Condrieu, France. Filed Dec. 29, 1917. Serial No. 209,473. 3 Claims. (Cl. 112—158.)

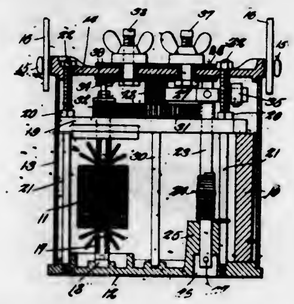
1. In a sewing machine, the combination with a pair of vertically-arranged needle holders mounted for both

oscillatory and vertically reciprocatory movements with relation to the work plate for the fabric, and needles carried thereby, of separate means for imparting the oscillatory and reciprocatory movements to the needle holders, and means for moving the needles along paths



inclined relatively to each other so as to move laterally past each other at the top of their upward stroke; whereby both needles are caused to always reach the plane of the work plate at two points which are in a line that is normal to the line of feed of the fabric, and to pierce the fabric alternately at the same points in the plane of said plate.

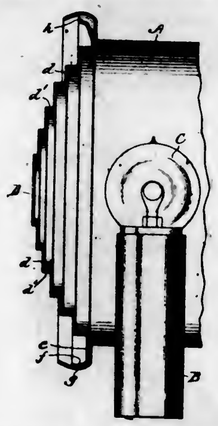
1,383,605. MAGNETO. ALFRED U. DAVIS, Baltimore, Md., assignor to Davis Instrument Manufacturing Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 8, 1920. Serial No. 364,274. 2 Claims. (Cl. 171—76.)



1. A portable magneto-generator comprising; a base; a housing rising from said base; a magneto within said housing and disposed on said base; a bearing member on said magneto; a removable cover on said housing; and means for clamping said bearing member and cover against said magneto and housing respectively, comprising posts rising from said base and passing through said bearing member and cover, and having upper threaded portions, and nuts screwed on said threaded portions and bearing against said bearing member and cover.

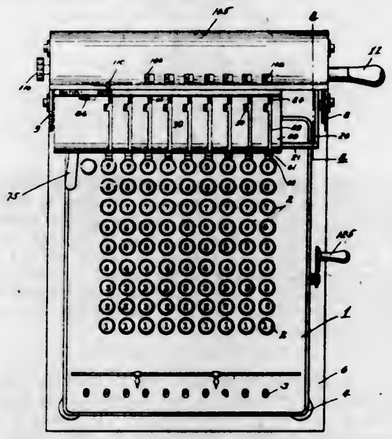
1,383,606. SIGNAL-LIGHT FOR VEHICLES. JOSEPH DAVIS, Newark, N. J., assignor to The Insel Company, Newark, N. J., a Corporation of New York. Filed Nov. 13,1920. Serial No. 423,814. 12 Claims. (Cl. 240—11.)

1. A new article of manufacture comprising a closure of cross sectionally stepped formation and composed of flexible light-transmitting material the surfaces of which are so related as to permit the free and unobstructed transmission of light rays through the material, said



closure being susceptible of deformation for its introduction into a light housing and the material by reason of its inherent elasticity being adapted for retaining the closure in operative position relatively to said light housing.

1,383,607. CALCULATING-MACHINE. ADOLPHUS S. DENNIS, Oakland, Calif. Filed June 0, 1919. Serial No. 302,964. 34 Claims. (Cl. 235—82.)



1. A device of the character described comprising the combination with the actuating parts of a calculating machine, of members for moving said parts, cams adapted to be set according to the numeral being used, means for reciprocating said cams to cause them to move said members an amount proportional to the cam settings.

7. A device of the character described comprising in combination with a calculating machine of the key operated type, reciprocable members adapted to depress the nine keys of said machine, setting devices and means for causing said setting devices to depress said members an amount proportional to the settings thereof.

9. A device of the character described comprising in combination with a key operated calculating machine, setting devices, means operable by said devices for depressing the nine keys of said machine an amount proportional to the setting of said devices, and means for counting the depressions of said keys.

10. A device of the character described comprising in combination with a key operated calculating machine having a plurality of depressible keys, members for moving the nine keys thereof, setting devices, means for reciprocating said setting devices a uniform amount in the direction of movement of said key moving members, and means carried by said setting devices for contacting with said key moving member and moving the same an amount proportional to the setting of said devices.

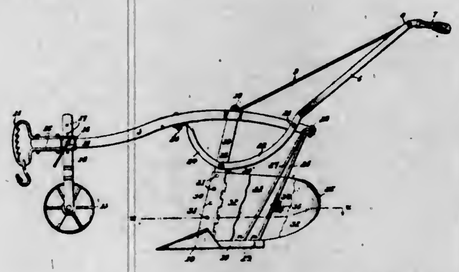
20. In a calculating machine, the combination with the actuating parts thereof of digital and codigital cams arranged in pairs, members adapted to move said actuating parts, means for bringing either cam of each pair into operative relation with said members and means for moving said cams to operate the actuating parts of the calculating machine according to the number being used.

1,383,608. MOLD-SEPARATING DEVICE. AUGUST P. DIESCHER, Pittsburgh, Pa. Filed June 11, 1920. Serial No. 388,313. 8 Claims. (Cl. 18—2.)



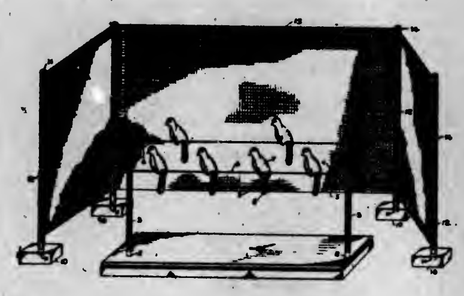
1. In a machine for separating mold sections from an inclosed core, the combination of three members adapted to engage respectively the mold sections and the core and means for shifting two members relative to each other and to the third member.

1,383,609. PLOW. STANISLAW DOMANSKI, Elyria, Ohio. Filed Oct. 8, 1919. Serial No. 329,257. 1 Claim. (Cl. 97—26.)



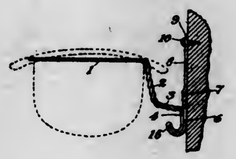
A plow of the class described comprising a beam, a ground engaging wheel adjustably carried by the forward end thereof, handles carried by the rear end of said beam, a runner, a shaft extending between the beam and the runner, braces extending forwardly and rearwardly of said shaft and connected to said shaft and beam, a pair of brace arms having their upper ends adjacently positioned and secured to the rear end of the beam, the arms diverging downwardly with their lower ends separately secured directly to the runner, one in advance of the other, a plow point carried by said runner, the shaft being triangular in cross section, a V-shaped frame inclosing the lower end of said shaft, mold boards hinged to the rear edges of the V-shaped frame to swing in horizontal directions and links adjustably connecting the mold boards to the rear brace arms.

1,383,610. GAME. ISAAC W. DOREMUS, West Englewood, N. J. Filed May 11, 1921. Serial No. 468,682. 5 Claims. (Cl. 124—15.)



1. In a game the combination of a base member supporting upright rigid members, around the upper ends of which is strung a flexible member on which is supported a group of objects resting in balanced position, together with a number of secondary base members each supporting perpendicular uprights on which a net is secured, thereby serving as a backstop for missiles projected at said balanced objects.

1,383,611. HAT-RACK AND COAT-HOLDER. JOHN W. ETCHELLS, Brooklyn, N. Y. Filed Mar. 8, 1921. Serial No. 450,649. 2 Claims. (Cl. 45—13.)

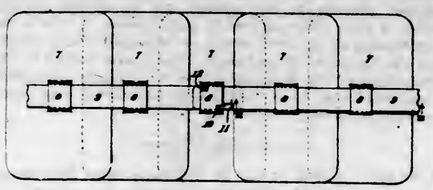


1. A hat rack and coat holder formed of a single piece of wire, having a horizontally disposed, closed loop adapted to surround the crown of a hat, a four ply, untwisted hook, a two ply, offset and twisted loop-shank extending from said loop to said hook, a two ply, twisted, back section extending away from said hook, and free ends with fastener receiving means.

1,383,612. PNEUMATIC-TIRE PROTECTOR. PETER EVANCHO, Oneida, Pa. Filed Dec. 16, 1920. Serial No. 431,293. 1 Claim. (Cl. 152—18.)

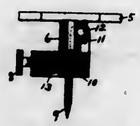
An internal armor for pneumatic tires comprising a band formed of a plurality of overlapping plates having transverse loops, and a securing strip threaded through said loops for retaining the plates in operative relation, the ends of said strip being overlapped and provided with

struck-up rearwardly directed edge lugs engaging opposite edges of one of said loops whereby the ends of the strip



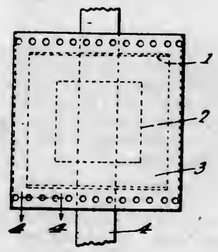
are held again relative expanding displacement, one end of said strip being provided with an edge notch through which the lug of the other end of the strip projects.

1,383,613. CHUCK FOR TALKING-MACHINE NEEDLES AND THE LIKE. PINCUS FARR, Saginaw, Mich., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Oct. 4, 1918. Serial No. 256,837. 2 Claims. (Cl. 279—77.)



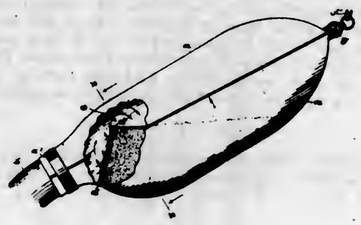
1. A chuck for talking machine needles and the like, comprising a socket member having a slot in its side extending into the socket in said socket member, a clamping member pivotally fixed to said socket member above said slot and having an integral blade portion projecting into said slot at one side of the socket member, and a yoke carried by said clamping member and encircling the socket member and said blade portion, and a screw mounted in said yoke and adapted to engage the other side of the socket member to draw said blade portion into contact with a needle placed in said socket member.

1,383,614. RAILWAY-TORPEDO. CLARENCE E. FRANKLIN, Fostoria, Ohio, assignor of one-third to John W. McDonel and one-third to Earl K. Cunningham, Fostoria, Ohio. Filed Apr. 26, 1921. Serial No. 464,621. 3 Claims. (Cl. 246—487.)



1. A railway torpedo including a flat tube constituting an outer casing, a flat tube constituting an inner casing and arranged within and extending transversely of the outer casing, an explosive charge within the inner casing, the ends of the inner and outer casings being sealed, and an attaching strap extending between the inner and outer casings and projecting therebeyond.

1,383,615. DUST-RECEPTACLE FOR VACUUM CLEANING APPARATUS. PHILIP A. GEIER, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 19, 1916. Serial No. 110,222. 2 Claims. (Cl. 183—51.)



1. In a device of the class described, the combination with a fabric-walled receptacle, having an inlet opening, of a partial diaphragm positioned therein adjacent to said opening and partitioning the lower portion of the receptacle from side to side, but affording a passage in the upper portion of said receptacle above the diaphragm approximately of the size of the inlet opening, substantially as set forth.

1,383,616. ELECTRIC FAN. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 15, 1918. Serial No. 222,597. 9 Claims. (Cl. 230—1.)



1. A fan motor having a motor-containing casing, a fan operatively secured to said motor, a guard for said fan, and means for securing said fan guard to said motor casing, comprising headed securing members mounted upon one end of said casing and means upon said guard having spaced outwardly flaring portions straddling the body portion of said members.

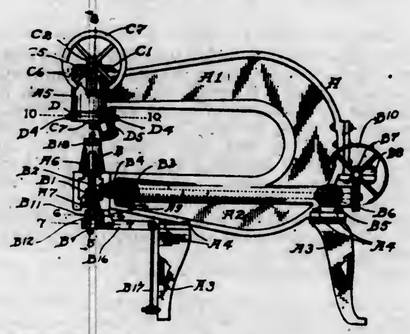
1,383,617. AUTOMOBILE-LOCK. ALBERT J. GRAY and WILLIAM HEBERN, Oakland, Calif., assignors, by direct and mesne assignments, to Security Auto Lock Co., a Copartnership consisting of Albert J. Gray, William Hebern, and David Guild, Jr. Filed Mar. 29, 1920. Serial No. 369,640. 4 Claims. (Cl. 70—128.)

1. In an automobile lock, the combination with the gear shift lever of an automobile and a member to which the lower portion of said lever is attached, of a locking member vertically adjustably mounted upon said gear shift lever, means for normally holding said locking member out of locking position, and means independent of and engaged directly with the first-named member for locking



said locking member to the first named member to prevent movement of said lever.

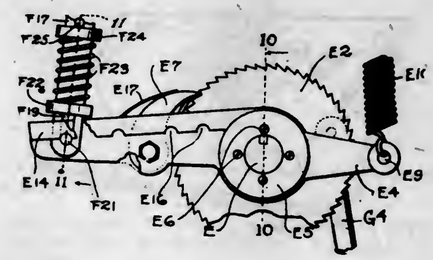
1,383,618. MACHINE FOR CUTTING SHEET-FORM MATERIAL. CHARLES BAXTER GRAY, Philadelphia, Pa. Filed Feb. 9, 1917. Serial No. 147,700. 19 Claims. (Cl. 164—68.)



1. In a machine of the nature described, the combination of a body, a first shearing wheel supported rotatably by said body, a shearing wheel supporting means supported by said body for rotation relative to said body on an axis which is coincident with the axis of the first shearing wheel, a second shearing wheel supported by said supporting means and having its edge meeting the edge of the first shearing wheel and rotatable on an axis which is non-coincident with the axis of the first shearing wheel, whereby by the rotation of said supporting means the second shearing wheel may be made to move bodily to different points in a path which is concentric to the axis of the first shearing wheel, substantially as described.

1,383,619. MECHANISM FOR TRANSMITTING MOTION. CHARLES B. GRAY, Philadelphia, Pa. Filed Apr. 22, 1918. Serial No. 230,144. 17 Claims. (Cl. 74—54.)

1. In a mechanism for transmitting motion, the combination of a reciprocable member and a connecting bar, the connecting bar and the reciprocable member being formed for inter-engagement at chosen places along the



length of the reciprocable member, and yielding means acting in the direction of the connecting bar and tending to maintain said engagement, substantially as described.

1,383,620. PANCHROMATIC SENSITIZING COMPOSITION. WILLIAM FRIESE-GREENE, London, England. Filed July 8, 1919. Serial No. 309,455. 5 Claims. (Cl. 95—7.)

1. A color sensitizer for color-photography comprising pinacyanel, pinaverdol, pinachrome, flavasin and ammonia mixed with water.

1,383,621. METHOD OF MAKING DOUBLE-PAGE MULTICOLOR MAPS. WILLIAN H. GREELEY, Newton, Mass., assignor to Ginn and Company, Boston, Mass., a Copartnership. Filed Mar. 26, 1921. Serial No. 456,017. 1 Claim. (Cl. 101—211.)



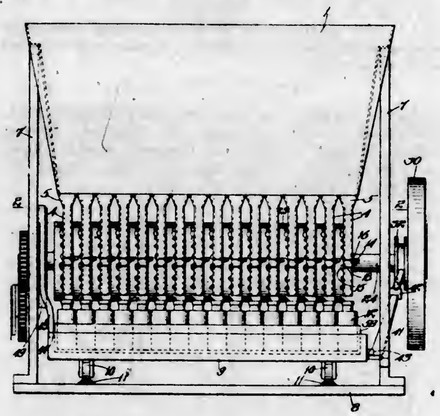
The method of making double-page multicolor maps which consists in making two separate plates for each half of the map, rigidly uniting together the two plates to constitute a control impression plate, or to be used in making such plate, printing from such control impression plate the control impression, registering two separate plates of the next color impression separately with relation to the two portions of the control impression, printing such second color impression in register with the control impression, and repeating the color printing steps for the several successive color impression.

1,383,622. MAP-PLATE. WILLIAM H. GREELEY, Newton, Mass., assignor to Ginn and Company, Boston, Mass., a Copartnership. Filed Mar. 26, 1921. Serial No. 456,018. 1 Claim. (Cl. 101—395.)



A map plate for use in making double-page maps, consisting of two parts, each of impression area, having their inner edges separated from each other double margin distance, and rigidly united together in such relative position.

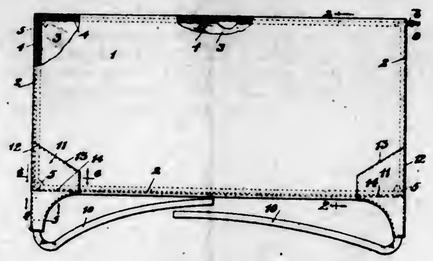
1,383,623. MACHINE FOR FEEDING PELLETS INTO CONTAINERS. JAMES E. GROVES, Boston, Mass. Filed May 8, 1920. Serial No. 379,748. 9 Claims. (Cl. 226—2.)



3. A machine for feeding articles into a container, having a feed tube, means for supporting a column of articles in said tube, means for releasing said articles one by one from said tube, a carriage which is movable beneath the lower end of said tube, a plurality of containers within said carriage, means for automatically moving said carriage in a step-by-step movement to successively bring each container into alinement with said tube, and means controlled by the mechanism which actuates the releasing of the articles from the tube to actuate the movement of said carriage after the releasing mechanism has been actuated to release a predetermined number of articles into the container.

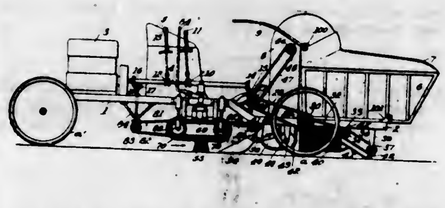
1,383,624. FLOTATION DEVICE. VICTOR GUINZBURG, New York, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a Corporation of New York. Filed Dec. 18, 1920. Serial No. 431,686. 3 Claims. (Cl. 9—17.)

1. A device of the class described comprising an inflatable body and outer covering corresponding in shape to said inflatable body, means for securing said inflatable body in said covering, tabs pendant from the outer covering



and securing tapes held within the tabs and projecting therefrom.

1,383,625. STREET-SWEEPER. WALTER S. GUYON, Brooklyn, N. Y. Filed Mar. 7, 1917. Serial No. 152,995. 11 Claims. (Cl. 15—17.)



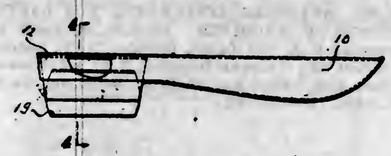
1. In a street sweeper, the combination of a main frame, a brush, a brush-head on which it is mounted, antifriction rollers, each having a shaft, one end of which enters the brush head, an endless chain having certain of its links perforated to receive the other ends of the roller shafts, wheels supporting the said chain, a frame in which said wheels are mounted, said frame having channels in which the said antifriction rollers operate, means for driving the chain, means for raising and lowering the said frame, and guiding means for said frame in its up and down movement, consisting of vertical rods working through sockets on the main frame.

1,383,626. SOCKET-SHELL FOR INCANDESCENT ELECTRIC LAMPS. WILLIAM E. HAWKINS, Amityville, N. Y. Filed Sept. 27, 1920. Serial No. 413,075. 1 Claim. (Cl. 240—114.)



A socket-shell for incandescent lamps, the said shell having its body formed near its lower end with an abutment-bead, with screw threads located below the said bead and with an inwardly turned lead-flange located below and merging directly into the said screw threads and forming the extreme lower edge of the shell-body, whereby a shade-holder applied to the said lead-flange has its threads lined up thereby with the threads of the body of the shell.

1,383,627. SAFETY-RAZOR-BLADE HOLDER. HERMAN W. HIGLEY, New York, N. Y., assignor of one-half to Carl H. Fowler, New York, N. Y. Filed Feb. 2, 1921. Serial No. 441,821. 5 Claims. (Cl. 30—25.)



5. A blade holding clip for holding razor blades, said clip being resilient and substantially U-shaped in cross section, the surfaces of said clip being of a metallic substance adapted to adhere to or frictionally grip a steel razor blade, whereby a razor blade may be gripped within the clip and frictionally retained in position by said surfaces.

1,383,628. ANTISKIDDING CHAIN FOR WHEELS. JOSEPH F. HERMAN, Washington, D. C., assignor to Bernadette M. Herman, Washington, D. C. Filed Apr. 12, 1916. Serial No. 90,578. 4 Claims. (Cl. 152—2.)



4. An anti-skidding device for wheels comprising a chain, a ring secured to a link at one end of said chain, a hook connected to the link at the other end of the chain, said chain adapted to be applied to a spoke of the wheel by wrapping thereon and said hook adapted to adjustably engage with the links in the chain to secure the same and to provide a chain loop, and a chain secured to said chain ring and the chain loop and disposed transversely of the tire tread, substantially as set forth.

1,383,629. SURFACE-PLATE. FRANK O. HOAGLAND, Bridgeport, Conn., assignor to The Bilton Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 29, 1919. Serial No. 334,196. 3 Claims. (Cl. 33—174.)



1. A metal surface plate including a top portion having an operating surface, bridging concave-convex portions formed integral with the top body portion and inclosing pockets therewith, and posts in the pockets connecting the bridging to the body portion.

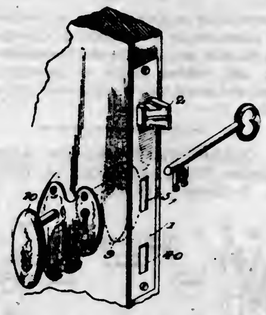
1,383,630. COMBINED TOOL-HOLDER AND CUTTER. FRANK O. HOAGLAND, Bridgeport, Conn., assignor to The Bilton Machine Tool Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 29, 1919. Serial No. 347,954. 4 Claims. (Cl. 29—96.)

1. A tool holder comprising a head having a recess in one side and a hole therethrough, a cutter positioned at an incline in the recess and having a toothed upper edge portion forming a rack, a pinion having a tapered head positioned in the holder and engaging the rack of the cutter, a clamping plate positioned on the head of the holder to engage the face of the cutter, means to guide the cutter at an angle when operated by the pinion, and means to



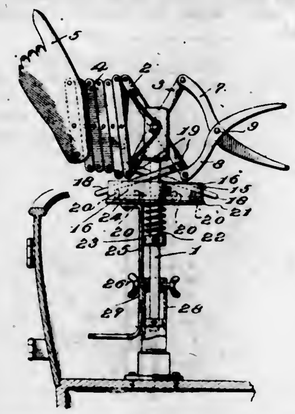
draw the head of the pinion in the holder and to clamp and secure the cutter in position.

1,383,631. LOCK. CARL HOFFMAN, Allentown, Pa. Filed July 16, 1920. Serial No. 396,694. 7 Claims. (Cl. 70—29.)



1. A lock including a case, a spring held latch bolt, a tumbler controlled lock bolt designed for key actuation, a latchbolt operating lever carried by said locking bolt, lugs operable to engage a portion of said lever to retract said latchbolt, said lever having a second contact surface designed to be engaged by the lock bolt operating key to withdraw the latchbolt when the locking bolt is in retracted position, and means for preventing operation of the latch and locking bolts from one side of said case.

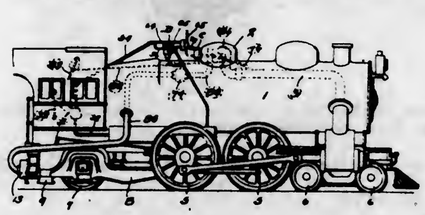
1,383,632. AUTOMOBILE-SIGNAL. CARL HOFFMAN, Allentown, Pa. Filed Aug. 16, 1920. Serial No. 403,753. 5 Claims. (Cl. 116—40.)



1. A signal including a support, an extensible signaling member pivotally secured to said support and adapted to

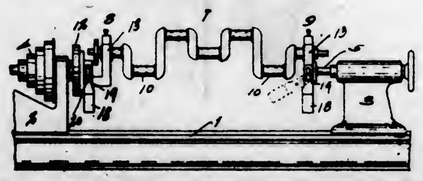
be bodily turned on its pivot so as to project upward or downward when extended, and means for actuating said extensible member to extend it, such means simultaneously turning said member on its pivot.

1,383,633. BOOSTER-MOTOR FOR LOCOMOTIVES. HOWARD L. INGERSOLL, White Plains, N. Y. Filed June 6, 1919. Serial No. 302,321. 36 Claims. (Cl. 105—48.)



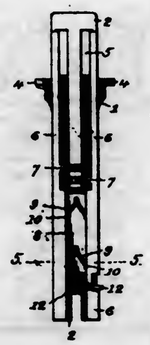
1. In controlling apparatus for a locomotive booster motor, the combination of mechanism for operatively connecting the booster motor with the locomotive, mechanism for setting said booster motor in operation, and means whereby the aforesaid two mechanisms are operable only in sequence.

1,383,634. CRANK-SHAFT HOLDER. ARTHUR G. JOHNSON, Spokane, Wash. Filed July 14, 1919. Serial No. 310,705. 2 Claims. (Cl. 82—9.)



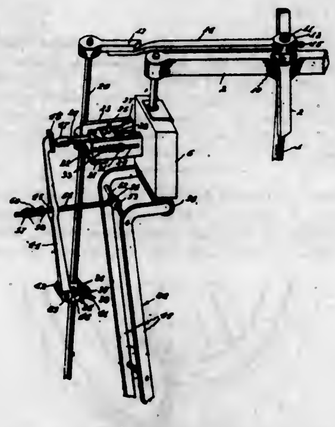
1. The combination with a lathe and a pair of holders each having adjustable centering and retaining blocks for a shaft, a counterweight for each holder formed with space arms pivoted to the holder, means for permitting adjustment of the counterweights with relation to their holders, and means for attaching the holders to supporting and operating parts of the lathe.

1,383,635. SPACE-BAND. CLAIR L. JOHNSON, Chicago, Ill. Filed Sept. 5, 1919, Serial No. 321,814. Renewed Oct. 8, 1920. Serial No. 415,676. 7 Claims. (Cl. 199—68.)



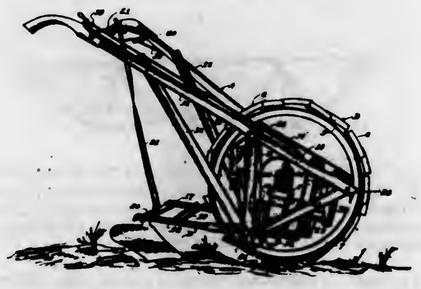
1. In a linotype space band, the combination of a wedge member formed with a receiving channel, a thickening strip associated with said channel, and means for shifting said strip from said channel to the back of the wedge member.

1,383,636. STAMPING ATTACHMENT FOR CARTON-SETTING-UP MACHINES. RICHARD E. JONES and THEODORE P. A. VON THIEN, Brooklyn, N. Y., assignors to Robert Gair Company, Brooklyn, N. Y., a Corporation of New York. Filed May 26, 1920. Serial No. 384,269. 9 Claims. (Cl. 93—55.)



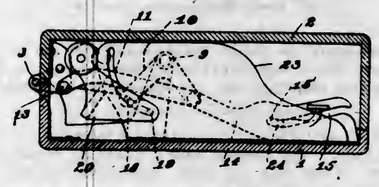
1. In combination, a shaft; arms fixed on the upper end of said shaft; a former block pending from the outer end of each arm; a stub loosely mounted on the upper end of said shaft; a hanger arm having its inner end fast on said stud; a rigidly supported supporting-rod having its upper end fast on said arm; a stamp-holder fixed on said rod opposite said block; a stamp thereon; a bracket fixed on said supporting rod below said holder; and operating means carried on said bracket for pressing the stamp against a carton on the former block.

1,383,637. TRACTOR-CULTIVATOR. RICHARD A. KNESS, Los Angeles, Calif. Filed Oct. 30, 1916. Serial No. 128,592. 2 Claims. (Cl. 180—19.)



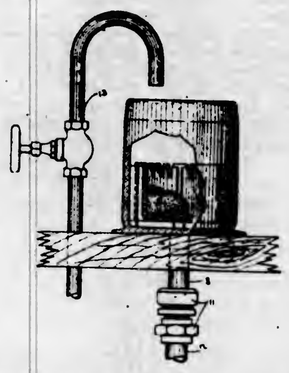
1. In combination with an annular tractor wheel; a triangular frame mounted by antifriction bearings within said annular wheel; an implement frame connected to the lower portion of said triangular frame; an engine carried by said triangular frame and operably connected to drive said annular wheel, and handles connected to the upper portion of said triangular frame.

1,383,638. INCASED COLLAPSIBLE TYPEWRITER. WELLINGTON P. KIDDER, Jamaica Plain, Mass., assignor, by direct and mesne assignments, of one-third to Harry Bates, New York, N. Y., and two-thirds to International Lettergraph Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 30, 1918. Serial No. 264,815. 25 Claims. (Cl. 197—186.)



1. In a device of the class described, a case comprising a pair of members mounted for relative movement in opening and closing, a typewriting machine frame comprising a pair of members mounted for relative movement to extend or compact the frame, a support carried by one case member and operatively associated with said frame members, and an operating connection between said support and the other case member for effecting said relative movement.

1,383,639. STATIONARY SELF-CLEANSING SHAVING-CUP. THOMAS J. KIRIAKOU, Indianhead, Md. Filed Feb. 26, 1921. Serial No. 448,263. 4 Claims. (Cl. 45—136.)



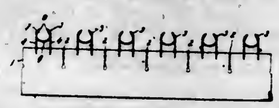
1. A shaving cup comprising an outer receptacle having a draining opening at the bottom thereof, and a removable inner receptacle having a non perforated bottom, adapted to be maintained free from the walls and bottom of said outer receptacle.

1,383,640. SALT-SPOUT. CULVER B. KNOX, Glen Ridge, N. J., assignor to The Whitehead & Hoag Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 8, 1920. Serial No. 415,695. 6 Claims. (Cl. 221—11.)



1. The combination with a container wall having an opening therethrough, of a pouring spout located in said opening, and comprising a substantially flat sheet of flexible material capable of being flexed to substantially U-shaped from and of returning by its own resiliency to substantially flat form after each flexing operation.

1,383,641. PRICE-TAG. FREDERICK KOHNLE, Dayton, Ohio, assignor to The Monarch Tag Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 5, 1918. Serial No. 248,271. 8 Claims. (Cl. 40—25.)



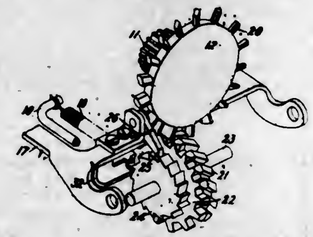
1. A ticket provided with a fastener consisting of a wire of soft metal bent to provide two parallel legs, the free ends of which are passed through the tag from one side and clenched upon the other side of the tag, the opposite ends of the legs converging toward each other and each terminating into a transverse hook fold connected by a circular loop, said circular loop arranged to and outwardly between looped ends of the legs when the legs are folded, as described, over the material, expressing outwardly the material engaged between said looped ends of the legs.

1,383,642. GARMENT-SUPPORTER. MATHEW KROMPIGEL, Youngstown, Ohio. Filed Aug. 27, 1919. Serial No. 320,126. 1 Claim. (Cl. 45—13.)



A garment supporter comprising a vertically twisted wire suspending line, a rectangular frame supported upon the top of said line, a depending wire member connected to said line, supporting fingers projecting from said wire member, a circular sheet metal frame in engagement with said fingers, and hangers suspended from the said depending wire member.

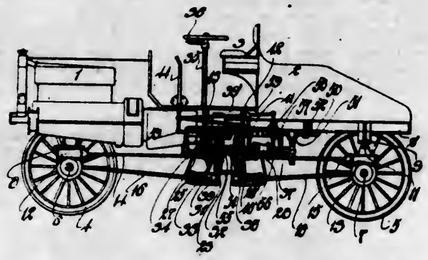
1,383,643. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 21, 1918. Serial No. 263,480. 17 Claims. (Cl. 197—82.)



1. In a typewriting machine, the combination with a toothed escapement-wheel, normally urged to turn in one

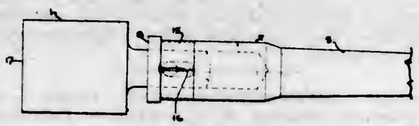
direction, of a detent-wheel for controlling said escapement-wheel, said detent-wheel having teeth spaced so as to enable teeth of the escapement-wheel to pass therebetween, a tooth of said detent-wheel being normally in the path of movement of a tooth of the escapement-wheel, to block movement of the latter, and means to advance said detent-wheel, step by step, to permit the tooth of the escapement-wheel, previously in blocked position, to enter between two teeth of the detent-wheel, the teeth of said wheels being angularly disposed with respect to their axes, so that upon movement of the tooth of the escapement-wheel between two teeth of the detent-wheel, the latter wheel will be actuated by the former until the next tooth of the detent-wheel is brought into the path of the next tooth of the escapement-wheel.

1,383,644. MOTOR-VEHICLE. ALBERT R. LANG, Spokane, Wash., assignor to Flood Manufacturing Company, Spokane, Wash., a Corporation. Filed Mar. 15, 1920. Serial No. 365,840. 5 Claims. (Cl. 280—91.)



1. The combination with the front and rear swiveled axles of a vehicle, of a pair of V-shape reach frames having their divergent arms attached thereto as described, a pair of oppositely disposed arcuate bolsters and an antifriction roller at the apex of each frame guided by said bolsters as described, means for laterally moving both frames to guide the vehicle, and means for holding one frame for the purpose described.

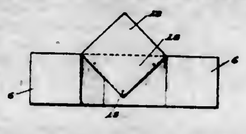
1,383,645. PRESSURE-BAR. OSCAR A. LAWRENCE, San Francisco, Calif. Filed July 25, 1919. Serial No. 313,183. 2 Claims. (Cl. 78—53.5.)



1. In a device of the character described an anvil having a stock thereon; a pin securely held in said stock and protruding from both sides thereof; a handle, drilled to slidably engage the stock of said anvil, having a retaining slot therein adapted to slidably receive said aforementioned protruding pin; and shock absorbing means interposed in said drilled hole in the handle adjacent the end of said anvil stock.

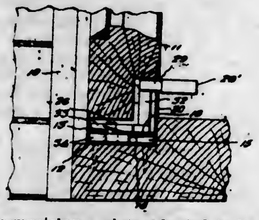
1,383,646. WATERING-TROUGH. BENJAMIN E. LUCKINBILL, Guthrie Center, Iowa. Filed Sept. 18, 1920. Serial No. 411,184. 5 Claims. (Cl. 119—61.)

1. The herein described trough composed of a single piece of sheet material folded to form a V-shaped bottom, vertical sides depending from the edges of the bottom panels, vertical end wings extending from the ends of the side panels and overlapping each other, flaps at the ends of the bottom panels folded at right angles to them and overlapping each other inside said wings, means



for connecting the wings and flaps at each end of the structure, and a water-tight connection between the free edge of the inner flap and the opposite bottom panel.

1,383,647. HINGE FOR CASEMENT-WINDOWS. VICTOR S. LUNDELL and GUSTAF EDWIN ECKBERG, Jamestown, N. Y. Filed Sept. 20, 1920. Serial No. 411,431. 7 Claims. (Cl. 16—106.)



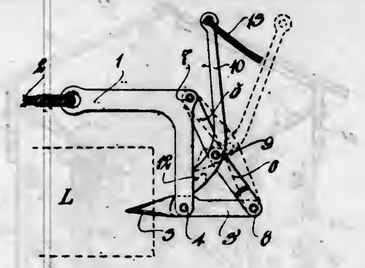
4. A hinge comprising a plate adapted to be secured to a fixed member, a second plate adapted to be secured to a movable member, the first mentioned plate having an elongated slot and an opening therein, a pivot secured to the second mentioned plate and movable within said slot, the second mentioned slot having an opening, a link, lugs projecting from the opposite sides of the link adjacent the ends thereof, and received within the respective openings of the respective plates, and means carried by said pivot for holding said plates fixed relatively in an adjusted position.

1,383,648. BED. GEORGE R. MCALLASTER, Rochester, N. Y. Filed Apr. 5, 1918. Serial No. 226,949. 8 Claims. (Cl. 5—18.)



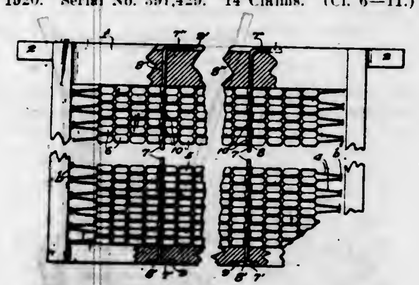
1. In a bed, a support, a bed frame mounted to swing thereon, and a frame arranged at the swinging end of the bed frame and movable longitudinally of the bed frame, said longitudinally-movable frame carrying means for holding the different bed clothes in spaced relation when the bed frame is thrown to an upright position.

1,383,649. JAMMER-HOOK. DANIEL MCGINNIS, St. Maries, Idaho. Filed Sept. 13, 1920. Serial No. 409,931. 4 Claims. (Cl. 294—83.)



1. The combination with an angular hook and its pivoted pointed shank, of a pair of flexible links connecting said members, and a release lever pivoted to said links having a fulcrum on said hook.

1,383,650. ARTIFICIAL HONEYCOMB AND THE ART OF AND MEANS FOR MAKING THE SAME. GEORGE M. MACDONALD, San Bernardino, Calif. Filed July 19, 1920. Serial No. 397,429. 14 Claims. (Cl. 6—11.)



1. An artificial honeycomb comprising a plurality of strips having grooves therein; said strips being integrally formed end to end and folded to assume superimposed positions relative to each other, the said grooves registering with similar grooves in adjacent strips to form complete cells.

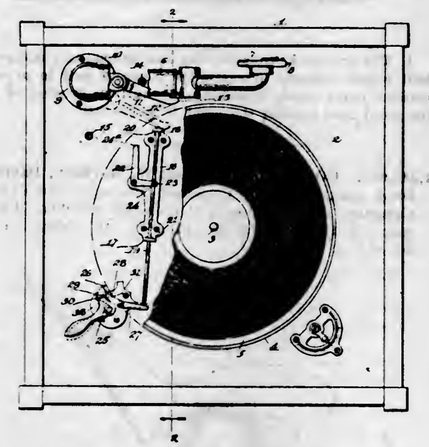
4. An artificial honeycomb comprising a frame; a plurality of strips formed integrally end to end of a continuous ribbon of sheet material folded so that the strips are superimposed upon each other; said strips respectively having grooves that register with similar grooves in adjacent strips to form cells, and means for retaining said strips in closely related superimposed position in said frame.

7. An artificial honeycomb comprising a plurality of strips integrally formed end to end and adapted to be folded at the juncture between their ends to assume superimposed positions relative to each other; said strips having grooves to register with similar grooves in adjacent strips to form cells, and said strips also having holes punched and located similarly in each strip relative to its ends and grooves; the burs formed by punching said holes occurring alternately on opposite sides of each successive strip before the strips are folded, and all extending in one direction when the strips are folded and superimposed; and wires extending through said holes to bind the strips in superimposed relation and to register the grooves with each other.

8. An artificial honeycomb comprising a frame, a plurality of elongated strips integrally formed end to end of sheet material and crimped to form transverse grooves alternately disposed upon opposite sides of the strips and alternately extending from opposite sides of the longitudinal center, being open at the edges of the strips and practically closed at the center thereof; said strips also having holes punched and similarly located in each strip relative to its ends and grooves, and the burs formed by punching said holes occurring alternately on opposite sides of each successive strip before the ribbon is folded, and all extending in one direction after the ribbon is folded and superimposed; there being uncrimped portions at the ends of the strips so that the strips are superimposed on each other and the grooves of said strip register with similar grooves in adjacent strips to form cells; and wires extending through holes in the frame and through the holes in the strips to hold the strips in superimposed relation in the frame and to register the grooves with each other.

9. The method set forth of making metallic honeycomb which consists in crimping a metallic ribbon to form a series of semi-cell crimps in pre-determined lengths with blank spaces between said series; then punching the crimped spaces alternately, one series being punched in one direction and the next series in the other direction, so that the burs formed by the punch will be reversely arranged upon the successive strips; then folding the ribbon upon itself to bring the holes into register with each other, with the burs all in one direction, and then inserting wires through said holes in the direction of the burs and securing said strips in a frame by means of said wires.

1,383,651. AUTOMATIC STOP. FRANK MALOCSAY, New York, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Aug. 19, 1916. Serial No. 115,822. 10 Claims. (Cl. 192—116.)

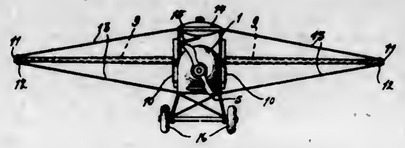


2. The combination with a reproducer and a record carrier, the two having relative movement for sound reproduction, of means including a settable element pivoted to the tone arm eccentrically of the axis thereof, for automatically causing such movement to cease when the reproducer reaches any predetermined point on the record, said settable element being automatically set to cause said means to become operative when the reproducer reaches any predetermined point on the record by a movement of the reproducer first in one direction and then in the opposite direction to said predetermined point.

1,383,652. AEROPLANE. STEVEN MARSEK, New York, N. Y. Filed Aug. 6, 1920. Serial No. 401,723. 2 Claims. (Cl. 244—29.)

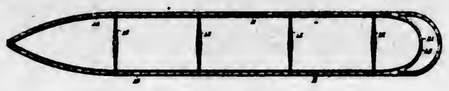
1. An aeroplane comprising a body, substantially L-shaped rods, vertical sleeves on said body, the shorter

arms of said L-shaped rods having pivotal support in said sleeves, wings mounted upon the longer arms of said L-shaped rods, said longer arms passing entirely through said wings and providing shafts upon which said wings are adapted to turn, releasable means at the ends of said



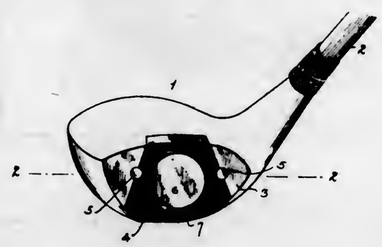
longer arms for securing said wings in place, arcuate slotted frames supported upon said body, pins extending from said wings and adapted to engage said slotted frames, and means for varying the position of said pins in said slotted frames.

1,383,653. APPARATUS FOR AND PROCESS OF CONSTRUCTING AND LAUNCHING CONCRETE SHIPS. WILLIAM H. MASON, Haverford, Pa. Filed June 26, 1918. Serial No. 241,961. 14 Claims. (Cl. 25—130.)



1. The process of constructing and launching a concrete hull which consists in casting a concrete hull in a permanent outer mold, launching the hull by floating it in the mold, and sinking the mold from beneath it.

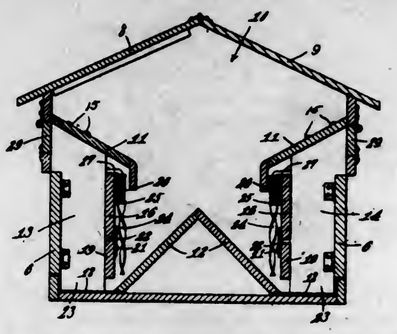
1,383,654. GOLF-CLUB. GEORGE W. MATTERN, Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 12, 1919. Serial No. 316,956. 18 Claims. (Cl. 46—4.)



1. The combination with a golf club of a body of ivory, and a sleeve of fiber inclosing the body of ivory, said body and inclosing sleeve being embedded in the striking face of the club, substantially as specified.

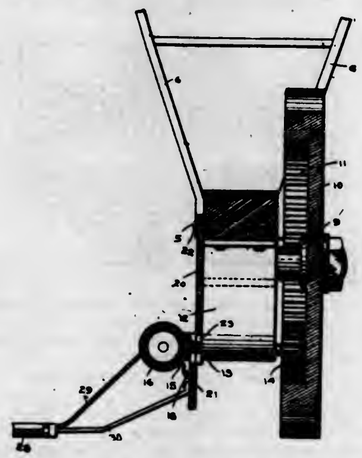
1,383,655. HOG-FEEDER. ARTHUR MORRISON, Hamilton, Ill. Filed Sept. 22, 1920. Serial No. 411,967. 1 Claim. (Cl. 119—53.)

In a feeding device, a main receptacle, partitions within the main receptacle for dividing the same into feed troughs, means for controlling the passage of feed to the feed troughs, hinged doors for closing the feed troughs, vertically disposed rollers extending throughout the lengths of the hinged doors, and arranged at the adjacent edges of



the doors, and means for agitating feed within the receptacle.

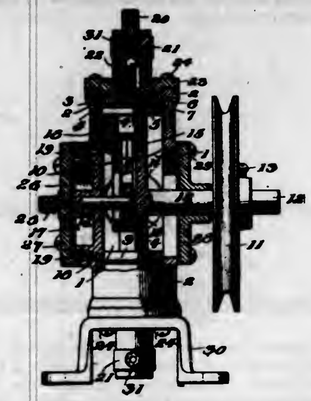
1,383,656. MOWER. JOHN BRYON NELSON, Jefferson, Tex. Filed July 22, 1920. Serial No. 398,073. 2 Claims. (Cl. 56—264.)



1. A mower comprising a mower beam, a bull wheel supported by the beam, a frame including an upper plate secured to the beam, a lower plate forming a part of the frame and having one end thereof pivotally connected to the upper plate, gearing carried by the frame, a sickle bar carried by the lower plate and adapted to receive motion through the gearing, and means at one end of the plates for permitting the lower plate to be adjusted vertically with relation to the upper plate.

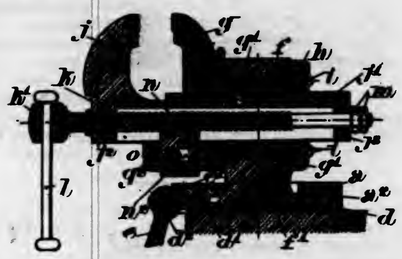
1,383,657. AIR-COMPRESSOR. JUAN NOGUERA, Buenos Aires, Argentina. Filed July 15, 1920. Serial No. 396,568. 2 Claims. (Cl. 230—27.)

1. In an apparatus of the character described, the combination of a casing; a plurality of oppositely-located pairs of cylinders disposed radially of and connected to the casing; a piston working in each cylinder; a connecting rod between the pistons of each pair of cylinders, each rod having a central longitudinal slot and being provided at its ends with lateral shoulders projecting in the same direction; said rods directly crossing each other so as to cause intersection of their slots; a central drive shaft extending through said casing and said slots; a single eccentric fixed to said shaft for action directly against the shoulders of all of said rods to reciprocate the same and thereby the pairs of pistons connected to them; fluid inlet



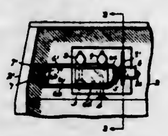
means associated with said cylinders; a collecting chamber in said casing; and a valve-controlled duct leading from each cylinder to said chamber to deliver to the latter the fluid compressed in said cylinders by said pistons.

1,383,658. PARALLEL VISE. NICOLAS OLIVIER, Lyon, France. Filed Sept. 13, 1920. Serial No. 409,785. 1 Claim. (Cl. 81—36.)



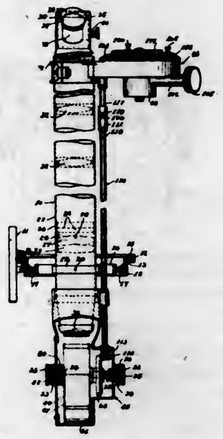
A quick action parallel vise capable of being rotated in the plane of its support and in a plane perpendicular thereto comprising a plate formed at its center with an aperture the edges of which are inclined, a support with a truncated conical base engaging in the said aperture, a sliding key on which said base rests, said key serving to lock the said base to the support and means for moving the key for locking and releasing the support to permit of the rotation thereof substantially as described.

1,383,659. AUTOMOBILE-LOCK. EARL R. PERKINS, Syracuse, N. Y. Filed Sept. 27, 1920. Serial No. 412,922. 2 Claims. (Cl. 70—126.)



2. The combination with the body of an automobile and a plurality of controlling pedals, of a locking member pivoted for transverse movement in a vertical plane toward and away from said pedals, a plate carried by said memer adapted to frictionally engage the two nearest pedals when said member is swung laterally and downwardly and to force said pedals forwardly into their operative positions, means for preventing the flexing of the side rails of said locking member, and means for locking the free end of said member to the farthermost pedal.

1,383,660. GROUND-SPEED DEVICE FOR AEROPLANES. BARTON A. PROCTOR, New York, N. Y. Filed December 13, 1918. Serial No. 266,622. 42 Claims. (Cl. 235—61.)



1. In combination, a sighting instrument adapted to be sighted at different angles; a timing apparatus; adjustable means controlled by said instrument and adapted to start and stop the timing apparatus when the instrument is sighted at different angles; and graduations indicating how said means are adjusted to cause the starting and stopping of said apparatus when, while said instrument is held sighted on a given object, a selected unit distance of travel takes place between the object and the instrument.

19. In combination, a sighting instrument; a timing apparatus; and means connected to said instrument and adapted to control the timing apparatus.

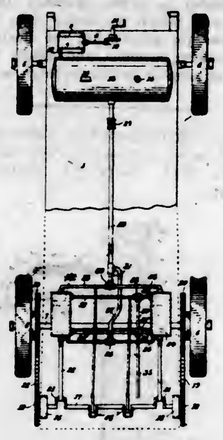
20. In a ground speed indicator for flying machines, the combination of a movable sighting instrument; a timing apparatus; and a pawl operatively connected to said instrument, and adapted to stop the timing apparatus.

22. In a ground speed indicator for flying machines, the combination of a movable sighting instrument; a timing apparatus having a controlling lever; a rotatably supported disk operatively connected to said instrument; and a pawl pivotally mounted on said disk and provided with a forward shoulder adapted when said reflector reflects vertical rays into the telescope to engage said lever to stop the timing apparatus, said pawl being adapted when moving rearwardly to cam over said lever.

1,383,661. VEHICLE PROPULSION MECHANISM. FRANC RASPOTNIK, Westmoreland City, Pa. Filed Dec. 10, 1920. Serial No. 429,792. 5 Claims. (Cl. 180—1.)

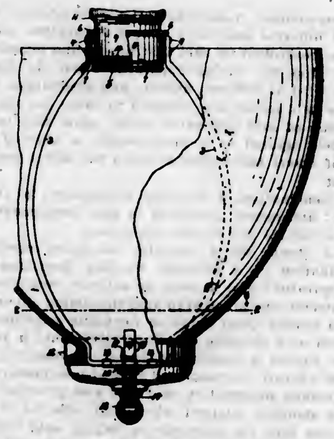
1. A toy vehicle including a frame provided with front and rear supporting wheels, a motor operatively connected to the rear supporting wheels for rotatably driving the latter and arranged adjacent thereto, a storage tank connected to the motor by means of a supply pipe and arranged at the forward end of the frame, and a pump arranged in

front of the storage tank for supplying compressed air to the latter, said pump being provided with operating



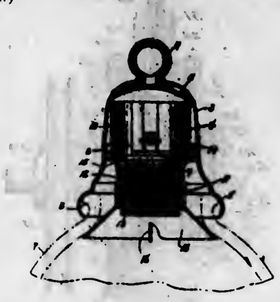
mechanism including a hand crank arranged at the forward end of the frame in the position usually provided for the starting crank of an automobile.

1,383,662. SHADE-SUPPORT FOR INCANDESCENT-ELECTRIC-LAMP SOCKETS. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed June 26, 1920. Serial No. 391,895. 1 Claim. (Cl. 240—111.)



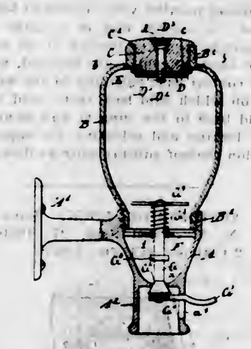
In a shade-support for threaded incandescent-lamp sockets, the combination with two bowed frame-arms, shade-mounting means fastened to the shade-ends of the said arms, and lamp-socket mounting-means permanently fastened to the lamp-ends of the said arms and consisting of a one-piece lamp-socket receiving-ring fastened to the lamp-ends of the said arms, and formed at its inner end with threads for direct coaction with the threads at the lamp-receiving end of the lamp-socket, whereby, by the use of the said single ring, the said support and lamp-socket may be solidly screwed together for the use of the said support, either in the upright or in the inverted position.

1,383,663. COMBINED INCANDESCENT-LAMP-SOCKET-INTERIOR COVER AND SHADE-HOLDER. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed July 1, 1920. Serial No. 393,284. 1 Claim. (Cl. 240—115.)



The combination with a lamp-socket-interior comprising a cylindrical base of insulating material, a screw-shell attached thereto and smaller in diameter than the same, and a tubular envelop of insulating material fitting over and conforming to the said base and shell; of a cover having suspension-means at its closed upper end and adapted to receive through its open lower end the said lamp-socket-interior and the neck of a lamp-shade; a retaining-sleeve made independent of the said cover and adapted to fit over the lower portion of the said insulating envelop and offset at its upper end to form a shoulder which engages with the said envelop at a point adjacent to the lower edge of the said base for crowding the said lamp-socket-interior upward into the closed upper end of the said cover and holding it therein against displacement, and the upper end of the said sleeve being removably secured to the inside of the said cover; and a shade-support having an upstanding sleeve by means of which it is applied to the said retaining-sleeve and formed upon its lower end with a flaring shade-supporting flange adapted to fit within the neck of a lamp-shade and coacting with the lower end of the cover for confining the neck of the shade in place therein.

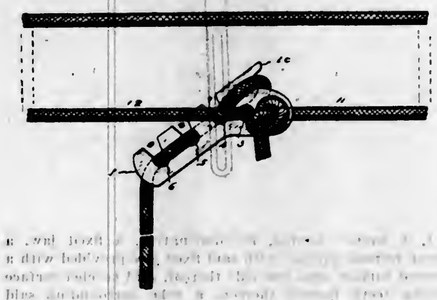
1,383,664. SOAP-POWDER DISPENSER. JOHN WALTER REMBE, Jersey City, N. J. Filed Nov. 28, 1919. Serial No. 341,000. 1 Claim. (Cl. 221—62.)



The herein described powder distributer comprising a reservoir and a casing separably formed and connected to the lower end thereof, a transverse bar in the upper end of said casing, there being a valve seat in said casing below said bar, and a tubular extension depending below said valve seat, a vertically disposed valve rod movable

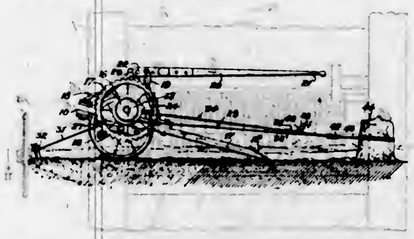
through said bar and through a delivery aperture at said valve seat, an agitator carried by the upper end of said rod, a collar on said rod between said bar and valve seat, a spring on the rod between said agitator and bar, a valve on said rod upwardly movable to close said aperture, and an operating arm connected with said rod and operable through a vertical slot in said depending extension.

1,383,665. LINE-CONNECTOR. JOSEPH P. ROHAN, Hartford, Conn., assignor of one-half to Morris B. Cartin, Hartford, Conn. Filed Jan. 18, 1921. Serial No. 438,202. 1 Claim. (Cl. 24—129.)



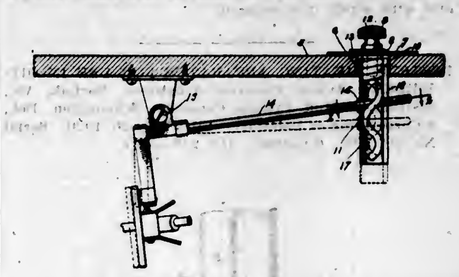
A line connector comprising a metal plate having two perforations near one end, a horn projecting from the end adjacent to said perforations, and slots in one edge of the plate, said slots tapering inward and terminating in openings that are larger in diameter than the width of the throats of the slots.

1,383,666. STUMP-PULLER. JOHN HENRY ROSEMEYER, Elmira, Idaho. Filed July 13, 1920. Serial No. 395,879. 5 Claims. (Cl. 254—166.)



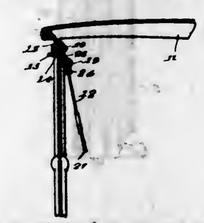
1. A stump puller comprising a main U-shaped frame having the forward free end of its extensions provided with beveled ground engaging shoes, a supplemental frame secured on the main frame, a drum having bearing in the supplemental frame, side plates secured to the opposite sides of the main frame, stub axles carried by said frame and the said side plates, wheels mounted upon the said stub axles on which the frame is portable when the extensions of the main frame are lifted from the ground, anchoring connections leading rearwardly from the lower portions of the said side plates, a pulley carrying connection secured at its rear ends to the upper forward portions of the said side plates and having a forwardly extending free end, and a hitch piece carried by the said plate attaching connection with which the free end of the drum actuated cable has an adjustable connection.

1,383,667. SPEED-CONTROLLER. CHARLES F. RUBSAM, Brooklyn, N. Y. Filed Feb. 15, 1919. Serial No. 277,300. 15 Claims. (Cl. 188—187.)



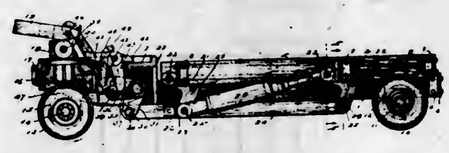
1. In a speed regulator, a spiral member, an operating member operatively engaged by the spiral member, and a housing having frictional engagement with the spiral member and provided with means which prevents its rotation with the spiral member.

1,383,668. VEHICLE ATTACHMENT. WALTER C. SMITH, Watertown, N. Y. Filed July 29, 1919. Serial No. 314,008. 3 Claims. (Cl. 296—97.)



2. A non-glare attachment for vehicles comprising a plate, means for securing the plate to a vehicle wind shield to interrupt the passage of light, a longitudinally slidable extension for said plate, whereby the area of interrupted light may be regulated and means for yieldingly holding the extension in adjusted position.

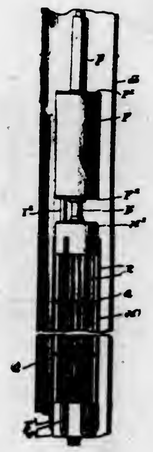
1,383,669. ELEVATING-TRUCK. CHARLES W. SPONSEL, Wethersfield, Conn. Filed Feb. 21, 1921. Serial No. 446,597. 8 Claims. (Cl. 254—10.)



1. An elevating truck comprising a body frame, wheels supporting said frame, an elevator frame, bell crank levers fulcrumed to the body frame and having the upper limb of each pivoted to the elevator frame, bars connecting the lower limbs of the bell crank levers on each side, a transmitting shaft extending transversely of the body frame, rocker arms keyed on the transmitting shaft and jointed to the ends of said connecting bars, an arm keyed to the transmitting shaft, a latch pivotally mounted on the body frame and adapted to engage and hold said arm lifted, arms pivoted on the transmitting shaft and adapted to engage and lift the arm keyed to the transmitting shaft, fingers connected to said lifting arms, a steering wheel

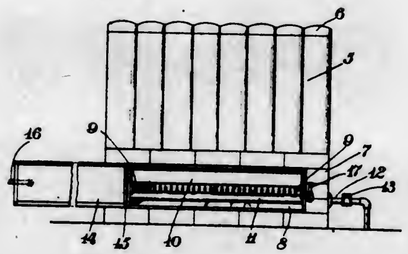
post mounted in the body frame, a draft handle pivoted to said post, means for engaging said fingers with the draft handle, and means for disconnecting said latch from the arm with which it is engaged.

1,383,670. HEATING APPARATUS FOR USE IN OIL-WELLS. JAMES CARLYLE STEPHENS, Norfolk, Va., assignor to Huff Process Company, Wilmington, Del., a Corporation of Delaware. Filed July 20, 1920. Serial No. 397,590. 6 Claims. (Cl. 219—33.)



1. Apparatus for use in heating oil wells, comprising an inner tube projecting down into the casing, a closed contact box carried by said tube and provided with an insulated contact therein, an electric heater suspended from said contact box, electric conductors leading from said contact box to said heater, an electric cable, and a circuit closer suspended from said cable adapted to be lowered through said tube and to close the circuit through said contact box, substantially as described.

1,383,671. DOMESTIC HEATER. JOSEPH H. STETTNER, Columbus, Ohio. Filed Mar. 10, 1921. Serial No. 451,380. 2 Claims. (Cl. 126—85.)



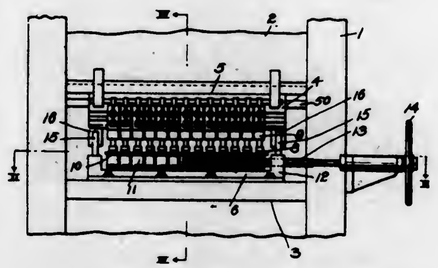
1. A heater comprising, in combination, a flueless heat storing slow radiating body, a combustion chamber within said body, and a heat insulating door for air tightly closing said combustion chamber when the body has been heated.

1,383,672. WRENCH. CHRISTOS A. STOLAKIS, Boston, Mass. Filed Dec. 14, 1920. Serial No. 430,698. 3 Claims. (Cl. 81—106.)



1. A wrench having, in combination, a fixed jaw, a shank formed integral with said fixed jaw provided with a beveled surface upon one side thereof, said beveled surface having teeth formed thereon, a yoke surrounding said shank and provided with teeth adapted to engage the teeth of said shank, a movable jaw opposed to said fixed jaw, a shank formed integral with said movable jaw pivotally mounted upon said yoke and yielding means interposed between said shanks adapted to force said teeth into engagement with each other and thereby rigidly secure said yoke upon the shank of said fixed jaw.

1,383,673. PUNCHING-MACHINE. GEORGE P. THOMAS, Glenshaw, Pa. Filed May 12, 1920. Serial No. 380,796. 3 Claims. (Cl. 164—90.)

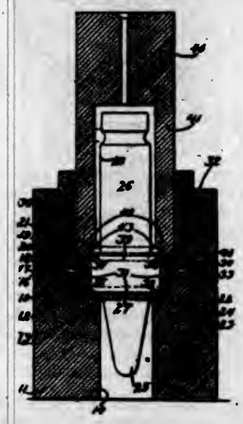


1. In a multiple plate-punching machine, the combination of a frame provided with an anvil, a reciprocating head, laterally movable punch and die carriers borne respectively by said head and anvil, means for moving said carriers laterally during the operation of the punch, said carriers being equipped with a series of coöperating punches and dies arranged in a line transverse to the line of feed through the punch for punching end and intermediate transverse lines of holes, and a series of coöperating punches and dies attached to said head and arranged in a line parallel to the line of feed through said punch for punching holes in multiple in the side of a plate, said last mentioned series of punches and dies being immovable during the punching operation.

1,383,674. PROCESS FOR THE PRODUCTION OF FINE SOOT SUITABLE FOR THE MANUFACTURE OF PIGMENTS. EMERICH SZARVASY, Budapest, Hungary. Filed June 3, 1920. Serial No. 386,408. 3 Claims. (Cl. 134—60.)

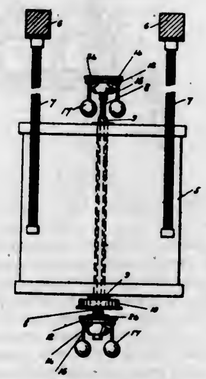
1. The process, which consists in diluting methane with a neutral gas and subjecting the mixture to a heat treatment, whereby the methane is split up.

1,383,675. DIE. WILLIAM S. THOMAS, Lock Haven, Pa. Filed Feb. 10, 1920. Serial No. 357,722. 6 Claims. (Cl. 29—33.)



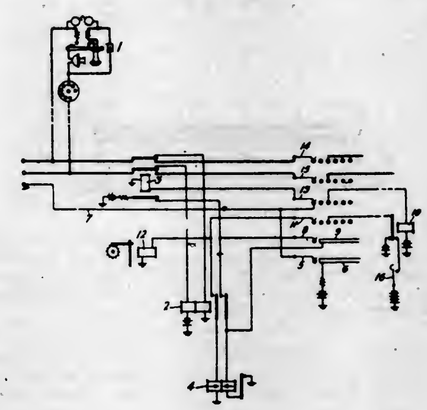
1. A set of dies, for securing a jacket to an insulator which has an enlarged flange between its ends, including a base die having a recess into which the jacket can be seated; a top die fitting said base die and including a hole for embracing said jacket below the upper edge thereof, said top die including a recess above said flange; and a plunger die movable downwardly within said recess and having a portion adapted to engage and turn inwardly said upper edge of the jacket whereby when said flange of the insulator is placed within said jacket, the edge of said jacket can be turned over the flange of the insulator; substantially as described.

1,383,676. DRIVING MECHANISM FOR SHAKING-BOLTS. CARL G. THOMPSON, Knoxville, Tenn. Filed Nov. 23, 1920. Serial No. 425,985. 4 Claims. (Cl. 74—14.)



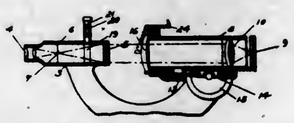
2. The combination, with a gyratory device, of a vertical driving shaft journaled in the said device, and two similar driving devices carried by the upper and lower end portions of the shaft, each said driving device comprising a pair of weighted arms pivotally connected with the driving shaft and normally arranged on opposite sides of it, and means operating to guide the weighted arms toward each other into an unbalanced position on one side of the shaft as they are moved outwardly by centrifugal force.

1,383,677. TELEPHONE-EXCHANGE SYSTEM. GEORGE THOMPSON, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1919. Serial No. 315,820. 4 Claims. (Cl. 179—18.)



1. In a telephone exchange system, an automatic switch, a differentially wound stepping magnet for operating said switch, and means for energizing the windings of said magnet to prevent further operation thereof when the switch engages terminals of an idle line.

1,383,678. LENS-TESTING INSTRUMENT. EDGAR D. TILLYER and CHARLES H. KERR, Southbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Sept. 25, 1920. Serial No. 412,639. 6 Claims. (Cl. 88—56.)



1. In a lens testing instrument the combination with a lens support, of means for projecting an image through a lens on the support with parallel emergent rays, an eye piece section reproducing the image of the object projected by said parallel rays, said eye piece including a physical object at the image point and a supplemental lens insertible in the eye piece section of power to focus at said image point the physical image of the lens being tested.

1,383,679. DEMOUNTABLE RIM FOR AUTOMOBILE-WHEELS. JAMES H. WAGENHORST, Jackson, Mich. Filed June 11, 1919. Serial No. 303,527. 12 Claims. (Cl. 301—19.)

1. The combination with a channeled fixed rim, the outer leg of said fixed rim having depressions at definite points,

of a demountable tire carrying rim having an inrolled bead, said bead being apertured at definite points, clamps having outwardly projecting lugs passed through said



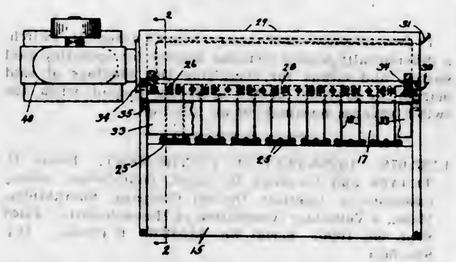
apertures and riveted to the rim, bolts passing through the fixed rim and clamps, and nuts upon the ends of said bolts.

1,383,680. METALLIC PIPE-COVERING. JOHN A WALDORF, Salt Lake City, Utah. Filed Oct. 20, 1920. Serial No. 418,260. 4 Claims. (Cl. 154—45.)



1. A pipe covering composed of semi-tubular metal sections containing hermetically sealed air spaces, spacers to center said sections with reference to the pipe covered, and semi-tubular telescope joints to connect said sections at places requiring odd lengths of section.

1,383,681. CONFECTIONERY-MAKING MACHINE. WILLIAM V. WALLBURG, Melrose, Mass. Filed Oct. 17, 1919. Serial No. 331,405. 19 Claims. (Cl. 107—20.)

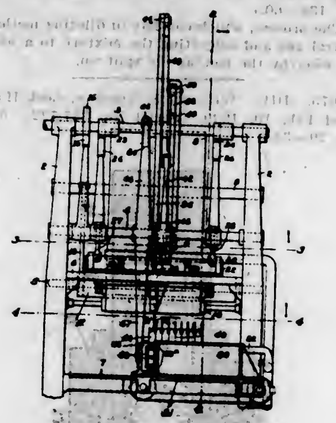


1. The combination of a plurality of dividing means arranged side by side and spaced apart, upon which strands of candy are adapted to be placed, means to heat said dividing means to a temperature sufficient to melt the candy strands placed thereon, and means to press the candy strands against the dividing means in a downward direction to accelerate the dividing movement.

17. A candy cutting machine having an opening, a plurality of dividing means arranged side by side, and spaced apart above the openings upon which a strand of candy is adapted to be placed in angular relation with respect thereto, and means for heating said dividing means to a temperature sufficient to melt the candy strand to divide it, the pieces passing through the spaces down into the opening and cooling means having delivery orifices adjacent the dividing means for delivering air to the melted divisional surfaces of the strand.

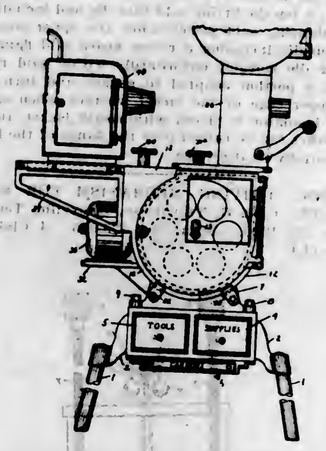
1,383,682. BOX-LINING MECHANISM. WALTER S. WEBER, Reading, Pa., assignor to William H. Luden, Reading, Pa. Filed Apr. 15, 1920. Serial No. 374,023. 13 Claims. (Cl. 93—55.)

1. In a machine for lining sheet-material boxes; an apertured lining-blank support, a box support below the same, and mechanism for forming and inserting the lining comprising a gravity-operated plunger and means for



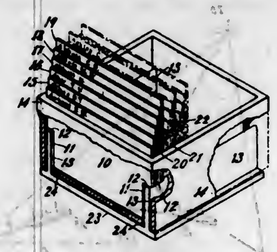
adapting the momentum thereof to merely overcoming the normal resistance of forming and unobstructedly inserting the blank into the box.

1,383,683. UNIVERSAL PROJECTOR-SUPPORT. WILLIAM WENDERHOLD, New York, N. Y., assignor to Cru Patents Corporation, a Corporation of New York. Filed June 9, 1917. Serial No. 173,763. 5 Claims. (Cl. 88—17.)



1. A supporting structure for a projecting apparatus consisting of a main base, a second base pivotally supported thereon upon a vertical axis, magazines or drawers in the main base, a source of power supported by the second base, a film reel magazine pivotally mounted upon said second base, a horizontally disposed reel shaft for actuating said reel magazine, said reel shaft forming the pivotal axis for said reel magazine, said shaft being disposed in longitudinal alinement with the driving element of the driving power source, means to pivotally adjust said second base and said reel magazine, and a projecting apparatus supported by said reel magazine.

1,383,684. INDEXED CARD SYSTEM. LESTER A. WEBURY, Brooklyn, N. Y., assignor to Burnham C. Stickney, Elizabeth, N. J. Filed Jan. 17, 1917. Serial No. 142,792. 18 Claims. (Cl. 129—16.1.)



1. In combination, a bank of self-finding cards, each having a heading along one edge, the cards provided with supporting or locating means in the form of shoulders at a variety of distances from said heading, each card having its locating means at only a single distance from said heading, to render the card self-locating relatively to the remaining cards, and the single locating means upon each card being at a different position from the locating means upon the remaining cards, to enable the cards to locate themselves to show said headings in stepped or echelon arrangement as they are banked, and a common support upon which said cards are so banked normally.

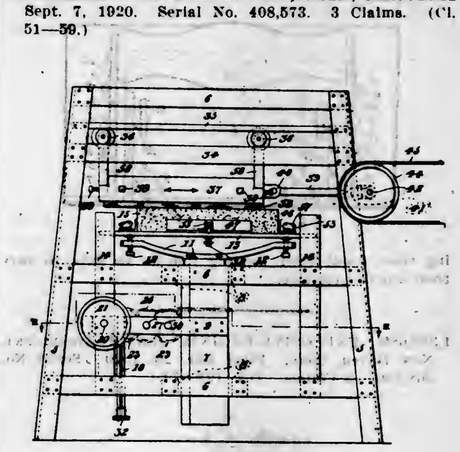
14. A card tray having card-supporting ledges upon opposite sides, said ledges being fixed upon a removable base upon which the tray rests.

1,383,685. DINING-TABLE SERVICE-INDICATOR. ERNEST W. WHITE, Milford, Ohio, assignor to Meredith G. Standley, Cincinnati, Ohio. Filed June 8, 1920. Serial No. 387,419. 6 Claims. (Cl. 116—132.)



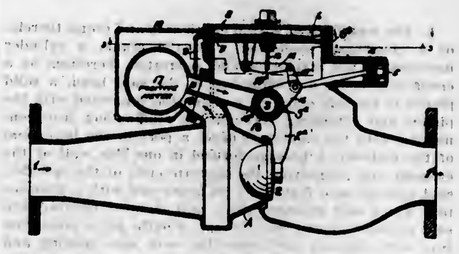
1. In a telescopic display column, a tubular base section, a second tubular section telescopically mounted within said base section, expansion means within said base section for extending the said second telescopic section, and means for limiting the extensive movement of the said second section, the said means comprising a cushion spring carried by the said second section and surrounding the same, and abuttingly engaging the said base section to retard and limit the extensive movement of the expansion means within the said base section.

1,383,686. FIRE-BRICK TRIMMING OR BEVELING MACHINE. FRANK WIERZBOWSKI, Lorain, Ohio. Filed Sept. 7, 1920. Serial No. 408,573. 3 Claims. (Cl. 51—59.)



1. In a brick trimming machine of the class described, a carriage adapted to have a grinding or dressing stone clamped therein, means to horizontally reciprocate said carriage, a brick supporting pallet, means to elevate said pallet to engage the upper surface of the brick thereon with the stone carried by said carriage, means to adjust said pallet at an angle to the horizontal whereby beveling of the brick may be had, said last named means including a vertically movable standard having a spider fastened upon the upper end thereof, and set screws threaded upwardly through said spider in supporting engagement with the under surface of said pallet.

1,383,687. METER. ALBERT R. WOOD, New Orleans, La. Filed Mar. 22, 1918. Serial No. 223,893. 7 Claims. (Cl. 73—167.)

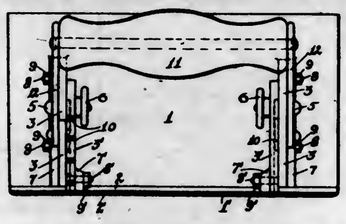


1. A metering apparatus comprising in combination a casing, a main valve, a positive meter by-pass around said main valve, a differential pressure member tending to press said valve toward its seat, and means for subjecting said member to the pressures from the inlet and discharge sides of said meter by-pass.

1,383,688. CORNER-TROWEL. WILLIAM W. WORD, Piedmont, Calif. Filed Nov. 30, 1920. Serial No. 427,427. 6 Claims. (Cl. 72—136.)

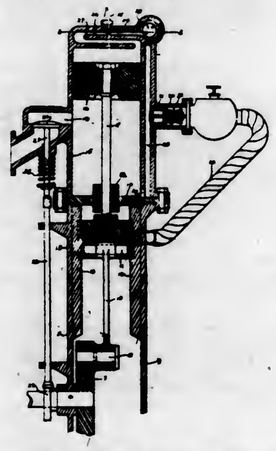
1. A corner-trowel comprising angularly disposed blades, the adjacent edges of which meet in a line in the planes

of their outer faces, and are spaced from each other back of said line; and means connecting said blades, for turn



ing them about their meeting line as an axis, to vary their angular relation.

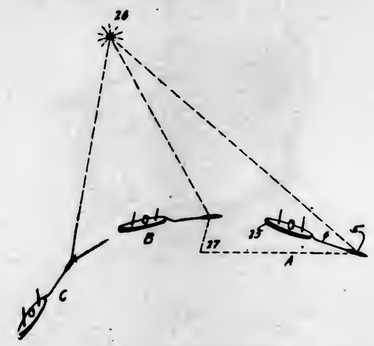
1,383,689. EXPLOSIVE-ENGINE. JOHN R. ZYGALINSKI, New Haven, Conn. Filed Mar. 26, 1920. Serial No. 368,890. 2 Claims. (Cl. 123—74.)



1. The combination with a crank-case and crank therein, of a cross-head connected with the crank, a cylinder mounted of the crank-case and separated therefrom by a crank-case head, a stuffing-box in the said head, a solid piston in the said cylinder, a piston-rod connected with the piston and extending through the stuffing-box into connection with the said cross-head, a port in the lower end of the cylinder, a passage formed in one side wall of the cylinder and connecting the opposite ends of the cylinder, said cylinder also formed at its upper end with a chamber into which said passage opens, said chamber opening into said cylinder at one side thereof, a baffle plate projecting into said chamber and extending over said opening and between it and the said inlet passage, a check-valve at the upper end of the said passage, an intake-valve opening into the said passage near the center thereof, a check valve in said intake opening, an exhaust-port opening from one side of the cylinder, and an exhaust-valve controlling said port.

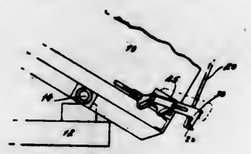
1,383,690. METHOD OF DETECTING UNDERWATER VIBRATIONS. HAROLD D. ARNOLD, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,384. 7 Claims. (Cl. 181—0.5.)

1. A method of detecting the direction of a source of sound which consists in towing a pair of detecting devices a fixed distance apart, obtaining a binaural balance, changing the course of the towing vessel, obtaining a second binaural balance and deducing from these balances the direction of the source of sound.



5. In apparatus for detecting the direction of a source of under-water sound, the combination with a towing vessel of a detecting device comprising a pair of detectors spaced a fixed distance apart, a towing cable for towing said device from said vessel and means for obtaining a binaural balance between said detectors.

1,383,691. TAIL-GATE LATCH. PERCY E. BARKER, Cleveland, Ohio, assignor to The Van Dorn Iron Works Co., Cleveland, Ohio, a Corporation of Ohio. Filed June 12, 1920. Serial No. 388,483. 8 Claims. (Cl. 298—23.)



1. In a device of the character described, a body having a pivotally mounted tail gate, a latch for holding the same, said latch being mounted at the base of the body, and means for manually adjusting and holding the tail gate in partially opened position, and thereafter freeing it by moving said latch while maintaining it at all times parallel to itself, said latch being operable independently of the position of the truck body.

1,383,692. PULLEY-FACE-FRICTIONING COMPOSITION. DAVID M. BENFORD, North Pelham, N. Y. Filed Feb. 21, 1920. Serial No. 360,461. 8 Claims. (Cl. 106—7.5.)

1. A pulley-face frictioning composition, comprising water-floated ground glass; and a hard-drying liquid mixed therewith.

1,383,693. COLLAR. JOHN BLAKESLY BOLTON, Methuen, Mass., assignor to John Manning Van Heusen, Boston, Mass. Filed Feb. 26, 1914, Serial No. 821,350. Renewed Oct. 29, 1919. Serial No. 334,375. 12 Claims. (Cl. 2—67.)

3. A shirt collar, made up of fabric having a reinforce of longitudinal threads of pliable material interwoven in the fabric and capable of receiving and maintaining a curvilinear set, said threads comprising soft metal wire.

5. A folding shirt collar, made up of multiple-ply interwoven fabric comprising an outer layer of woven fabric, an intermediate layer of woven fabric whose longitudinal threads are omitted along a median line corresponding to the folded edge of the collar, and a third layer whose longitudinal threads are similarly omitted.



11. A folding collar made up of an inner neck band and an outer turn-down band, said bands being woven in one piece of multiple-ply interwoven fabric and connected along their upper edges by an intermediate weakened edge-fold portion.

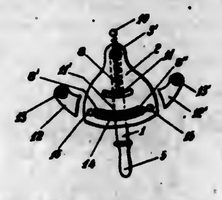
1,383,694. COLLAR. JOHN BLAKESLY BOLTON, Methuen, Mass., assignor to John Manning Van Heusen, Boston, Mass. Filed Feb. 26, 1914, Serial No. 821,351. Renewed Oct. 29, 1919. Serial No. 334,376. 9 Claims. (Cl. 2—67.)



6. A folding collar, made up of a neck band portion and a folding portion woven integral therewith of multiple ply interwoven fabric, the neck band being woven thicker and stiffer than the folding portion, and the collar folding along the edge of said neck band.

1,383,695. ELECTRIC SWITCH. GIUSEPPE COMBONI, Milan, Italy. Filed Feb. 13, 1920. Serial No. 358,395. 1 Claim. (Cl. 200—67.)

An electric switch of the character described comprising a base, two levers connected on a common pivot secured to said base, a spring having one end secured to said base and the other end secured to a point of one of said levers, two additional springs having a common end secured to a common point of one of said levers and the other ends secured to two different points of the other lever, and symmetrically arranged contact spring plates



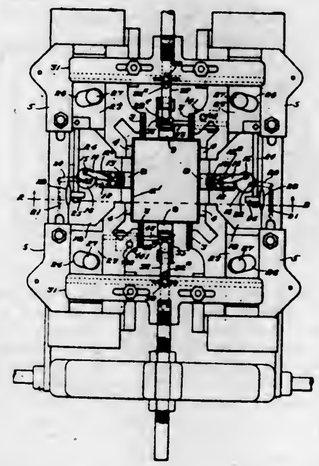
into which to snap said second mentioned lever, the common pivot of the levers being a common terminal of the double throw switch.

1,383,696. ARTIFICIAL TOOTH. ARTHUR N. DAVIS, New York, N. Y. Filed May 4, 1920. Serial No. 378,723. 5 Claims. (Cl. 32—9.)



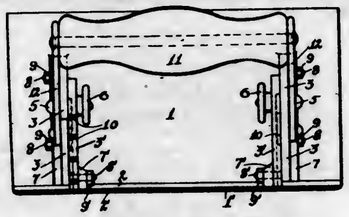
1. An artificial tooth adapted to be securely mounted upon a support of moldable material, having vertically disposed lateral grooves in the sides thereof, said grooves having the side walls thereof undercut to provide grooves of dove-tail cross section adapted to receive therein the moldable material of a support for rigidly securing the tooth to the support.

1,383,697. PAPER-BOX MACHINE. CHARLES C. DAVIS, Contoocook, N. H., assignor to Kingsbury & Davis Machine Company, South Coventry, Conn., a Corporation of New Hampshire. Filed Feb. 19, 1920. Serial No. 359,860. 26 Claims. (Cl. 93—41.)



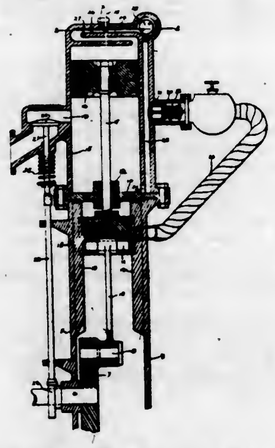
1. In a paper-box machine, the combination with box-forming devices and cornerstay applying mechanism, of means providing for supporting the last-formed box at the level at which the corner-staying is effected after withdrawal of the former therefrom, and crimper devices which perform the crimping operation upon the sides of the empty box while the same remains at such level.

of their outer faces, and are spaced from each other back of said line; and means connecting said blades, for turn



ing them about their meeting line as an axis, to vary their angular relation.

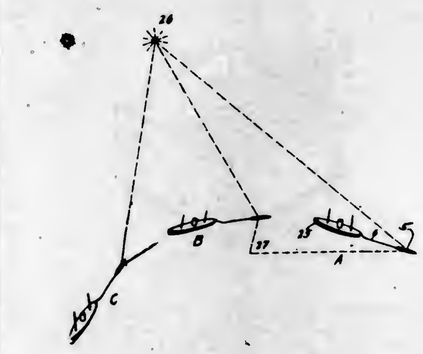
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1. The combination with a crank-case and crank therein, of a cross-head connected with the crank, a cylinder mounted of the crank-case and separated therefrom by a crank-case head, a stuffing-box in the said head, a solid piston in the said cylinder, a piston-rod connected with the piston and extending through the stuffing-box into connection with the said cross-head, a port in the lower end of the cylinder, a passage formed in one side wall of the cylinder and connecting the opposite ends of the cylinder, said cylinder also formed at its upper end with a chamber into which said passage opens, said chamber opening into said cylinder at one side thereof, a baffle plate projecting into said chamber and extending over said opening and between it and the said inlet passage, a check-valve at the upper end of the said passage, an intake-valve opening into the said passage near the center thereof, a check valve in said intake opening, an exhaust-port opening from one side of the cylinder, and an exhaust-valve controlling said port.

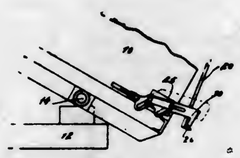
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5. In apparatus for detecting the direction of a source of under-water sound, the combination with a towing vessel of a detecting device comprising a pair of detectors spaced a fixed distance apart, a towing cable for towing said device from said vessel and means for obtaining a binaural balance between said detectors.

1,383,691. TAIL-GATE LATCH. PERCY E. BARKER, Cleveland, Ohio, assignor to The Van Dorn Iron Works Co., Cleveland, Ohio, a Corporation of Ohio. Filed June 12, 1920. Serial No. 388,483. 8 Claims. (Cl. 298—23.)



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1,383,693. COLLAR. JOHN BLAKESLY BOLTON, Methuen, Mass., assignor to John Manning Van Heusen, Boston, Mass. Filed Feb. 26, 1914, Serial No. 821,350. Renewed Oct. 29, 1919. Serial No. 334,375. 12 Claims. (Cl. 2—67.)

3. A shirt collar, made up of fabric having a reinforce of longitudinal threads of pliable material interwoven in the fabric and capable of receiving and maintaining a curvilinear set, said threads comprising soft metal wire.

5. A folding shirt collar, made up of multiple-ply interwoven fabric comprising an outer layer of woven fabric, an intermediate layer of woven fabric whose longitudinal threads are omitted along a median line corresponding to the folded edge of the collar, and a third layer whose longitudinal threads are similarly omitted.



11. A folding collar made up of an inner neck band and an outer turn-down band, said bands being woven in one piece of multiple-ply interwoven fabric and connected along their upper edges by an intermediate weakened edge-fold portion.

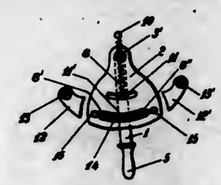
1,383,694. COLLAR. JOHN BLAKESLY BOLTON, Methuen, Mass., assignor to John Manning Van Heusen, Boston, Mass. Filed Feb. 26, 1914, Serial No. 821,351. Renewed Oct. 29, 1919. Serial No. 334,376. 9 Claims. (Cl. 2—67.)



6. A folding collar, made up of a neck band portion and a folding portion woven integral therewith of multiple ply interwoven fabric, the neck band being woven thicker and stiffer than the folding portion, and the collar folding along the edge of said neck band.

1,383,695. ELECTRIC SWITCH. GIUSEPPE COMBONI, Milan, Italy. Filed Feb. 13, 1920. Serial No. 358,395. 1 Claim. (Cl. 200—67.)

An electric switch of the character described comprising a base, two levers connected on a common pivot secured to said base, a spring having one end secured to said base and the other end secured to a point of one of said levers, two additional springs having a common end secured to a common point of one of said levers and the other ends secured to two different points of the other lever, and symmetrically arranged contact spring plates



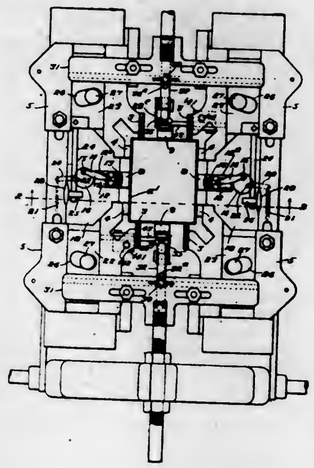
into which to snap said second mentioned lever, the common pivot of the levers being a common terminal of the double throw switch.

1,383,696. ARTIFICIAL TOOTH. ARTHUR N. DAVIS, New York, N. Y. Filed May 4, 1920. Serial No. 378,723. 3 Claims. (Cl. 32—9.)



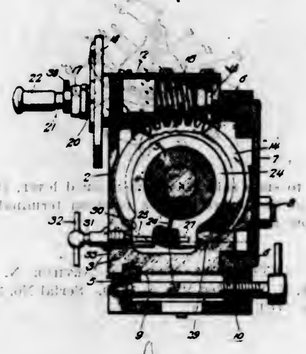
1. An artificial tooth adapted to be securely mounted upon a support of moldable material, having vertically disposed lateral grooves in the sides thereof, said grooves having the side walls thereof undercut to provide grooves of dove-tail cross section adapted to receive therein the moldable material of a support for rigidly securing the tooth to the support.

1,383,697. PAPER-BOX MACHINE. CHARLES C. DAVIS, Contoocook, N. H., assignor to Kingsbury & Davis Machine Company, South Coventry, Conn., a Corporation of New Hampshire. Filed Feb. 19, 1920. Serial No. 359,860. 26 Claims. (Cl. 93—41.)



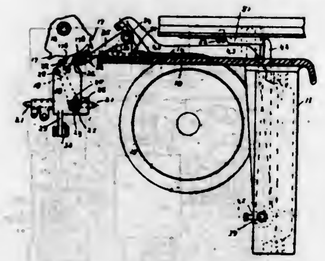
1. In a paper-box machine, the combination with box-forming devices and cornerstay applying mechanism, of means providing for supporting the last-formed box at the level at which the corner-staying is effected after withdrawal of the former therefrom, and crimper devices which perform the crimping operation upon the sides of the empty box while the same remains at such level.

1,383,698. INDEX-CENTER OR THE LIKE. FRED C. DICKOW, Chicago, Ill. Filed Dec. 31, 1917. Serial No. 209,685. 4 Claims. (Cl. 188—77.)



1. In a spindle locking device for index centers, and in combination a support, a work holding spindle mounted on said support, the support having bearings for the spindle adjacent its ends, and means for locking the spindle against movement relatively to the support, said means comprising a split ring clutch member arranged on the spindle to engage the same intermediate said bearings, and means for controlling the split ring clutch whereby the spindle is locked against movement relatively to the support.

1,383,699. TYPEWRITING-MACHINE. LOUIS P. DISS, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Nov. 12, 1919. Serial No. 337,434. 10 Claims. (Cl. 197—109.)



1. In a typewriting machine, the combination of a frame, a carriage movably mounted thereon, a carriage strap operatively connecting the carriages and the frame, tensioned to move the carriage for its writing movement and having its direction of movement reversed when the carriage is retracted, escapement mechanism including a movable member the movement of which is necessary for the operation of the escapement mechanism, an arm adapted to be moved into position to engage the said movable escapement member and prevent operation thereof or to be withdrawn therefrom, a movably mounted shoe frictionally engaging the carriage strap and moved thereby according to the direction of movement of the strap, and means operatively connecting said arm and said friction shoe whereby the arm is moved into locking engagement with the movable escapement member when the carriage is being retracted and the arm is disengaged when the carriage is making its writing movement.

1,383,700. ACOUSTIC DEVICE. HENRY C. EGERTON, Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1918. Serial No. 249,837. 10 Claims. (Cl. 179—122.)



1. An acoustic device comprising a sound responsive body, a current varying device operated therefrom, and a radially inflexible coiled spring connecting said sound responsive body and said current varying device.

1,383,701. CAN-FASTENING. JOHN D. ELLIS, Philadelphia, Pa., assignor, by mesne assignments, to George D. Ellis & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 3, 1919. Serial No. 287,183. 3 Claims. (Cl. 220—55.)



1. A body having a tongue rising therefrom, and a cover having in its side rim a keeper forming a vertical passage set out on its side walls and front wall from the adjacent portions of said rim, the bottom portion of said tongue being secured to the outer side of said body, said outer side of the body and said inner face of the tongue having deflected interlocking surfaces.

1,383,702. LIGHT-DEFLECTOR. WILLIAM ELLSWORTH and ROBERT E. MACKELLAR, Ashland, Ohio. Filed Aug. 31, 1920. Serial No. 407,078. 1 Claim. (Cl. 240—48.6.)

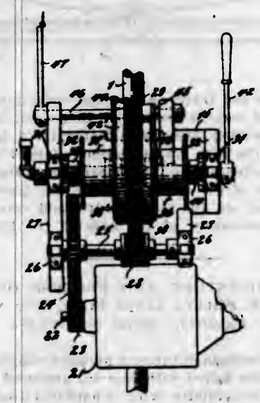


A light deflector adapted to be attached directly to the reflector of an automobile lamp, comprising a deflector shaped to screen the upper portion of the lamp, a hinge connecting the shank of the deflector with the adjacent portion of the reflector of the lamp above the lamp bulb, and spring means attached to the ends of the aforesaid hinge and holding the deflector at the desired predetermined angle relative to the lamp bulb for which the tension of the spring may be adjusted.

1,383,703. METHOD OF INSULATING METAL PARTICLES. GUSTAF W. ELMEN, Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 21, 1920. Serial No. 353,102. 4 Claims. (Cl. 148—7.)

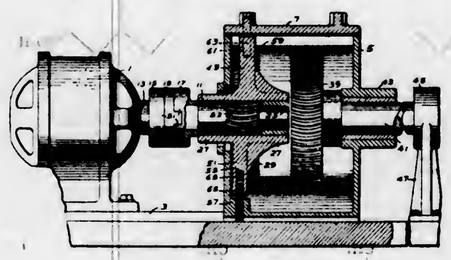
1. The method of coating metallic particles which consists in mixing with a mass of said particles only sufficient oxidizing agent to form a black oxid on the surfaces of said particles, and heating the mixture in a container until oxidation of the surfaces of the particle has taken place.

1,383,704. WINDING OR HOISTING ENGINE. CYRUS EVERS, Brooklyn, N. Y., assignor to Lidgerwood Manufacturing Company, New York, N. Y., a Corporation of New York. Filed Oct. 31, 1918. Serial No. 260,459. 10 Claims. (Cl. 254—185.)



1. In a winding engine, a shaft, a driving element loosely mounted on the shaft, a drum loosely mounted on the shaft, friction clutch faces providing a driving connection between said drum and said driving element, means whereby rocking of the shaft in one direction connects said friction clutch faces, and rocking in the opposite direction disconnects said friction clutch faces.

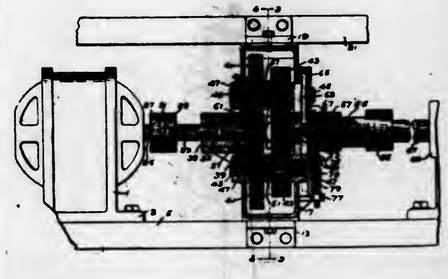
1,383,705. TRANSMISSION MECHANISM FOR MOTORS. WILLIAM C. FARNUM, Winchendon, Mass. Filed Aug. 30, 1917. Serial No. 189,016. 7 Claims. (Cl. 74—7.)



1. A transmission mechanism for motors comprising in combination, a shaft, a pinion thereon, counter shafts, gears on the latter meshing with said pinion at points circumferentially spaced thereon, a movable support for said pinion shaft, and means yieldingly sustaining said support.

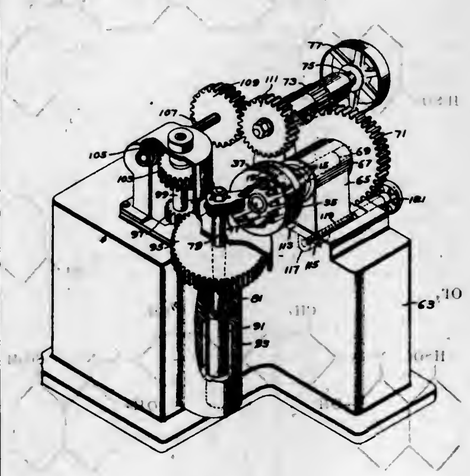
1,383,706. GEAR-REDUCTION MECHANISM. WILLIAM C. FARNUM, Winchendon, Mass. Filed Dec. 28, 1918. Serial No. 268,691. 7 Claims. (Cl. 74—7.)

1. A transmission mechanism, comprising, in combination, a driving gear, a driven gear, alined relatively movable shafts for said gears, counter shafts at opposite sides of said shafts, gears on said counter shafts meshing with said driving gear and driven gear respectively, said driven gear being bodily movable in its plane of rotation



relative to the gears meshing therewith to equalize the power transmitted through the counter shafts to the driven gear, and means for limiting said movement of the driven gear in its plane of rotation to the path of a straight line.

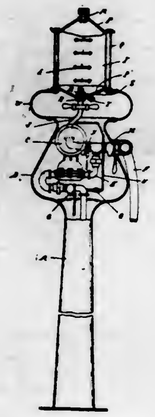
1,383,707. ART OF MAKING GEAR-CUTTERS. WILLIAM C. FARNUM, Winchendon, Mass., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass., a Corporation of Massachusetts. Filed Dec. 2, 1919. Serial No. 341,875. 8 Claims. (Cl. 76—101.)



1. A method of making cutters for the production of curved teeth of gears, characterized by moving tapered portions of a series of teeth in an orbital path past a tool having a cutter of tooth-space form, while holding the teeth shanks to extend in the same general direction and oblique to the axis of said orbital path to give said tapered portions clearance angles, and relatively moving said teeth and tool in a direction of approach to dress said tapered

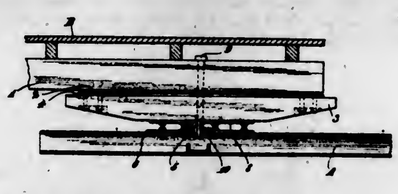
portions to final form suitable for cutting teeth spaces in a blank having the form of the tooth space of said tool.

1,383,708. LIQUID-DISPENSING APPARATUS. FREDERICK G. FARR, Detroit, Mich., assignor to Hydraulic Oil Systems Corporation, Detroit, Mich., a Corporation of Michigan. Filed July 19, 1919. Serial No. 311,935. 6 Claims. (Cl. 221—99.)



1. In a liquid dispensing apparatus, the combination with a meter and a delivery conduit, of a measuring receptacle, a branched connection between the meter and said measuring receptacle and delivery conduit respectively, and a valve in each branch of said connection.

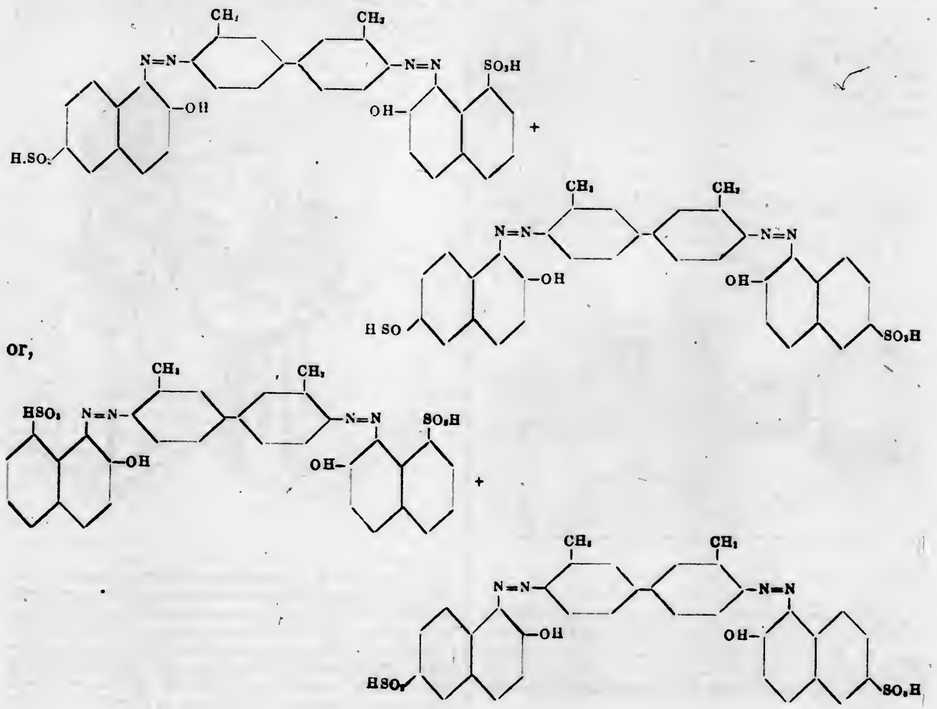
1,383,709. TRACTOR AND TRAILER ASSEMBLAGE. FRANK J. FAULHABER, New York, N. Y. Filed Dec. 15, 1919. Serial No. 345,077. 2 Claims. (Cl. 280—33.1.)



2. A trailer and tractor assemblage embodying a tractor, a fifth wheel section associated therewith, a trailer, a fifth wheel section associated therewith, a king-pin for maintaining the fifth wheel sections of both tractor and trailer in juxtaposition, and means mounting the fifth wheel section of the tractor for rocking movement on a transverse axis on the tractor with said transverse axis positioned rearwardly of the axis of the king-pin.

1,383,710. DYESTUFF AND PROCESS OF MAKING THE SAME. ALLAN JAMES FIELD, New York, N. Y. Filed Sept. 27, 1917. Serial No. 193,585. 3 Claims. (Cl. 8—1.)

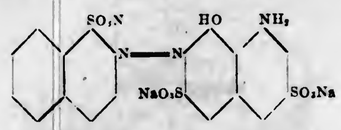
1. A compound constituting a pigment color and forming a dyestuff when mixed with dextrin, produced by combining tetrazotized tolidin with 2-naphthol-6-sulfonic acid and 2-naphthol-8-sulfonic acid, and having probably the formula:



or,

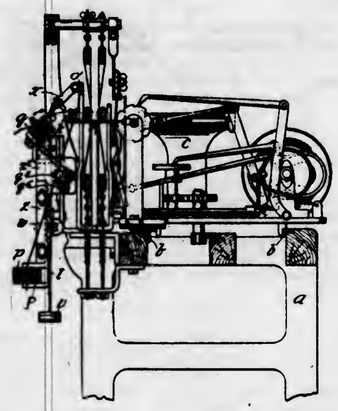
1,383,711. MONOAZO DYESTUFF. ALLAN J. FIELD, New York, N. Y. Filed July 23, 1918. Serial No. 246,319. 1 Claim. (Cl. 8—1.)

As new product, the dyestuff having the formula:



obtained by combining diazotized 2-naphthylamin-1-sulfonic acid with 1:8 amidonaphthol-3-6-disulfonic acid, which is readily soluble in water with a bluish-red color, dissolving in concentrated sulfuric acid with deep violet blue color, dyeing wool and silk bluish-red shade.

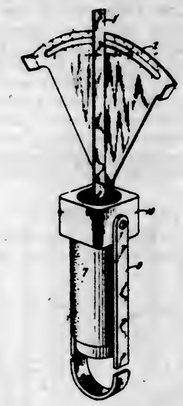
1,383,712. MACHINE FOR OPERATING UPON WARPS. MILLARD F. FIELD, Winthrop, Mass., assignor to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Original application filed June 23, 1898, Serial No. 684,201. Divided and this application filed Oct. 11, 1920. Serial No. 416,120. 7 Claims. (Cl. 139—94.)



1. In a machine for operating upon warps, a warp support comprising two frame-sections, a clamp on one frame-section to hold warp threads tightly, a clamp on the other frame-section to hold the warp threads loosely, and a shaft extending parallel with the clamps, the threads extending over said shaft, said frame-sections being relatively movable to separate the clamps and thus tension the threads.

1,383,713. SPRING-TENSION GAGE. WILLIAM H. D. FORD, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 23, 1919. Serial No. 346,880. 3 Claims. (Cl. 265—1.)

1. A tension gage comprising a base, a calibrated scale mounted on said base, flexible reeds of different thicknesses adapted to coöperate with said scale, and self-adjusting means in said base whereby said reeds may be individually secured thereto.

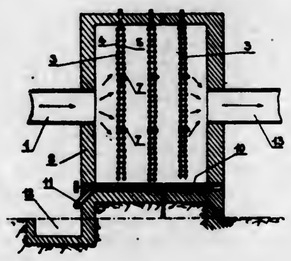


1,383,714. FOLDING BOX. SAMUEL FREUND, Chicago, Ill. Filed Dec. 12, 1919. Serial No. 344,382. 8 Claims. (Cl. 229—35.)



1. In a foldable paper box, side and end walls, corner sections hinged at the ends of said walls, a slot in each corner section and a tongue surrounded by such slot, and a stub formed along the edge of the adjacent side of the box for engaging in said slot, said stub having an inclined edge for facilitating its passage into said slot, said tongue and stub interlocking after passage of the stub through said slot.

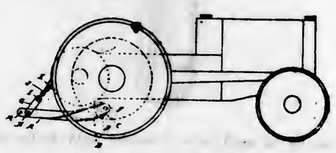
1,383,715. MECHANICAL DEVICE FOR THE REMOVAL OF DUST FROM THE GASES DERIVED FROM ROASTING ORES. LUCIEN GESCHWIND, Paris, France, assignor to Manufacture de Produits Chimiques du Nord, Etablissements Kuhlmann, Paris, France. Filed July 20, 1920. Serial No. 397,701. 2 Claims. (Cl. 183—110.)



1. A mechanical device for the removal of dust from gases derived from the roasting of ores, comprising a

chamber: curtains composed of chains freely suspended and arranged perpendicularly to the current of gas, the links of said chains being of sufficiently small dimensions to oppose a slight resistance to the passage of the gaseous current, each of said curtains comprising several parallel rows and separated from one another by empty spaces between them forming depository chambers, the various chains of one and the same row being placed side by side and quite regularly, while the chains of two consecutive rows of one and the same curtains are arranged in combination with one another in such manner that a molecule of gas passing through the space of one link of the first chain passes in front of a solid portion of a link of the second chain.

1,383,716. DRAFT-RIGGING. ERNEST GOLDBERGER, Detroit, Mich. Filed Jan. 30, 1920. Serial No. 355,204. 3 Claims. (Cl. 213—67.)



1. The combination with a draft vehicle provided with three draft attachment bearings in rigid relation to each other, of a draft bar, a universal pivotal connection between the forward end of said draft bar and one of said bearings, brace bars attached to the rear of said draft bar and engageable respectively with the other two bearings to form a rigid connection therewith, and flexible extensions for said brace bars attachable to said bearings, permitting limited freedom for universal movement.

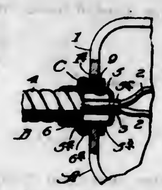
1,383,717. DISK CLUTCH. ERNEST GOLDBERGER, Detroit, Mich. Filed Jan. 30, 1920. Serial No. 355,206. 4 Claims. (Cl. 192—69.)



1. The combination with the rotary drive and driven members in axial alinement, of a head secured to one of said members having a recess in the hub portion thereof, a spring in said recess, a spring abutment member, a series of pins passing through said head connected at one end to said spring abutment, a clamping plate or head connected to said pins, and alternate drive and driven disks between said head and clamping plate, one set of disks being in engagement with said pins for the transmission of torque therethrough to said head.

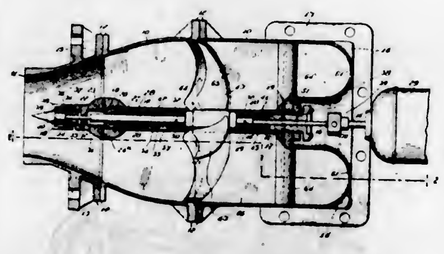
1,383,718. ELECTRICAL CONNECTION. ALBERT C. GRUNWALD, Chicago, Ill., assignor to Precision Metal Workers, Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1919. Serial No. 316,174. 3 Claims. (Cl. 247—25.)

1. A connecting device of the character set forth, comprising a hollow threaded nipple having its extremity bent outwardly and forming an annular flange, a seamless tubular shank having an enlarged end-portion forming an



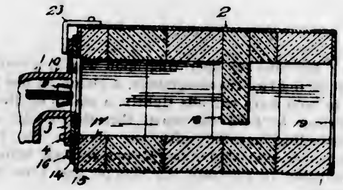
annular flange clenched over and inclosing said first-named flange, and a screw extending through a wall of said tubular shank and adapted to engage a cable.

1,383,719. BURNER. OLE G. HALVORSEN, Chicago, Ill., FINN S. HUDSON, Kansas City, Mo., and EDGAR G. RHOADS, Oak Park, Ill., assignors to Winslow Boiler & Engineering Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 18, 1920. Serial No. 359,537. 14 Claims. (Cl. 158—77.)



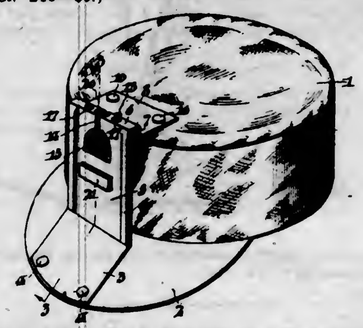
2. A liquid fuel burner comprising a casing having an air-inlet and a flame-exit, a burner-head adjacent the flame-exit having an oil-supply passage, a fan to force air to the burner-head, a valve normally closing the oil-supply passage, and means to simultaneously control the valve and fan.

1,383,720. LOW-PRESSURE OIL-BURNER WITH AN ATTACHED COMBUSTION-BOX. ARTHUR E. HAUCK, New York, N. Y.; Adolph H. Stein executor of said Arthur E. Hauck, deceased. Filed Jan. 8, 1920. Serial No. 350,149. 1 Claim. (Cl. 158—4.)



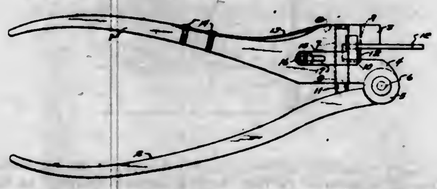
In a combined burner and combustion chamber, a burner adapted to throw a flame and a combustion chamber adapted to receive said flame, said combustion chamber being provided in its upper portion with a downwardly extending fire brick which receives the impact of the flame and becomes heated and deflects the flame and thereby permits a uniform and complete combustion in the chamber.

1,383,721. LAMP-SUPPORTING ATTACHMENT FOR MINERS' CAPS. WILLIAM ISRAEL, Kingston, Pa., assignor of one-half to Sydney Israel, Kingston, Pa. Filed June 21, 1918. Serial No. 241,305. 5 Claims. (Cl. 240—60.)



2. As an article of manufacture, a lamp-supporting attachment for miners' caps consisting of a strip of suitable material having a central portion which, when the attachment is secured to a cap, extends in general parallel relation to the body of the same and the upper end of which terminates in a rearwardly extending portion, a portion extending a short distance downwardly from the rear end of the latter portion, and a portion extending rearwardly from the lower end of the said downwardly extending portion, the second mentioned rearwardly extending portion having an opening for the reception of a hook for supporting a miner's lamp and a slot in said strip in front of said opening and in alinement therewith and a plurality of openings in the first named rearwardly extending portion of said strip adapted to receive supporting prongs attached to a lamp, substantially as described.

1,383,722. SAW-TOOTH CUTTER. JOHN JOHNSON, Des Moines, Iowa. Filed Feb. 24, 1920. Serial No. 360,821. 3 Claims. (Cl. 76—29.)



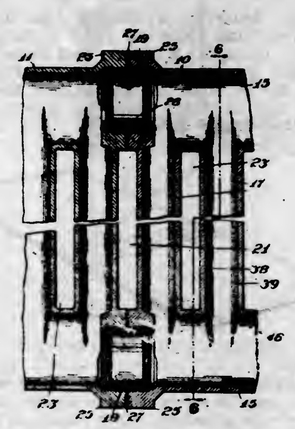
1. In a saw tooth cutter, a handle having one bifurcated termination, the prongs of said termination being perforated in alinement with each other, one of said prongs being formed with an integral downturned lip, a second handle pivotally connected to said lip, a plunger connecting the perforated portions of said prongs, a cutter carried by said plunger and adapted to move, with said plunger, into and out of the perforation formed in one of said prongs, said plunger having a bearing upon the said second handle, and means carried by said first named handle for retaining said plunger in position.

1,383,723. AUTOMOBILE-SPRING. GEORGE CHESTER JONES, Brownwood, Tex. Filed June 30, 1920. Serial No. 392,995. 8 Claims. (Cl. 267—40.)



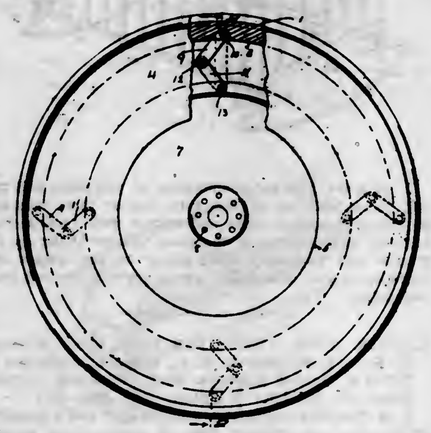
2. In a spring suspension for automobiles, front and rear axle supporting springs, and a longitudinally bowed intermediate shock absorbing spring, said shock absorbing spring being pivotally coupled to the frame of the vehicle and pivotally coupled at its opposite ends to the front and rear springs.

1,383,724. RADIATOR. AUGUST KEHM, Chicago, Ill. Filed Mar. 12, 1917, Serial No. 154,349. Renewed May 16, 1921. Serial No. 469,954. 10 Claims. (Cl. 257—154.)



4. The combination with a radiator section which is flat on one side and comprises a plurality of parallel longitudinal columns each having one straight side and a transverse header connecting the columns at one end of the section with the said straight sides of the columns flush with the corresponding side of the header, of a tubular nipple having a bore of a size not exceeding that of the header entering the bore of the header at one end of the same with the axis of the nipple parallel with the axis of the header but offset therefrom with the inside wall of the nipple flush with the inside wall of the header both at the said flat side of the section and at the said end of the section.

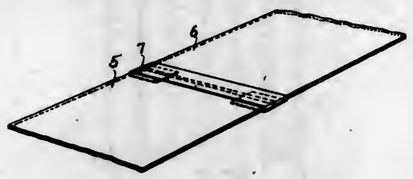
1,383,725. RESILIENT WHEEL. REGINALD O. KING, New York, N. Y. Filed June 19, 1920. Serial No. 390,166. 1 Claim. (Cl. 152—28.)



A wheel comprising a rim, plates secured to and extending inwardly from the rim in spaced relation and

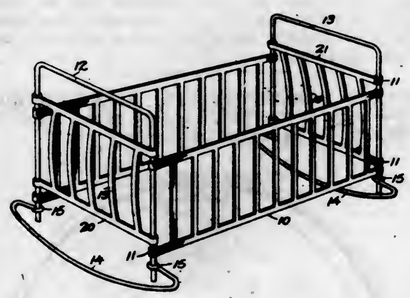
having inner openings, and a hub having disks extending outwardly in spaced relation and having their outer portions entering between and engaging said plates, said disks being inclined toward said plates, and linkage devices connecting the inner portion of the rim with the outer portion of said disks and located in the space therebetween.

1,383,726. ROOFING MATERIAL AND METHOD OF JOINING THE ENDS OF FELT IN MAKING THE SAME. OTTERBEIN KIRACOFE, East Rutherford, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 24, 1916. Serial No. 93,074. 3 Claims. (Cl. 154—42.)



1. The herein described method of joining or connecting separate elongated sheets of felt or the like, in the manufacture of roofing material, which consists in bringing the transverse ends of the sheets of felt together with their side edges in alinement and their ends in abutting relation, and then pasting to and across said ends a transverse adhesive flexible connecting strip of paper.

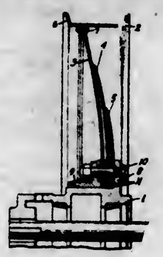
1,383,727. TOY BED. SIGMUND F. KOHN, New York, N. Y. Filed Sept. 13, 1919. Serial No. 323,573. 2 Claims. (Cl. 5—56.)



1. In a toy bed, the combination of two sides and two end pieces made up of bars with eyes at their ends and having intermediate slats, end frames with vertical rods adapted to fit loosely in the eyes, rockers fitting on the frames, and angular locking pieces on the frames and engaging a side and end piece to prevent the bed from collapsing.

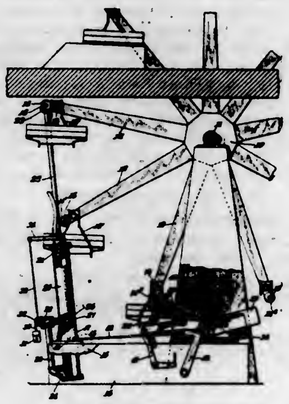
1,383,728. DISK WHEEL FOR VEHICLES. WILLIAM H. KLOCKE, Woodhaven, N. Y., assignor of one-half to Harry F. Hughes, Brooklyn, N. Y. Filed Feb. 2, 1920. Serial No. 355,728. 5 Claims. (Cl. 301—63.)

1. A disk wheel embodying a hub, a rim, and a plurality of superimposed resilient disks of progressively smaller diameters for suporting the hub from the rim, each of said disks being dished in cross section with the concave surface of each disk fitted over the convex surface of the next adjacent and larger disk, whereby that portion of the wheel which the disks form partakes of a spring-like



radial section adapted to support the hub in laterally resilient relation to the rim.

1,383,729. CONTROLLING MECHANISM FOR ROTARY CASTING-MACHINES. ARCHER A. LANDON, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed Oct. 18, 1916. Serial No. 126,332. 23 Claims. (Cl. 193—1.)



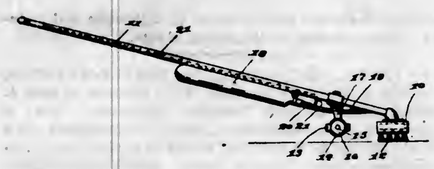
1. In a machine of the character described, the combination of a movable carrier, with a member adapted to be engaged by said carrier and to be moved thereby, means controlled by said carried for retarding the movement of said member after it has been engaged by said carrier, and means for arresting the movement of said carrier after the operation of said retarding means, substantially as specified.

1,383,730. ROBE-HOLDER. EMERY G. LAVOIE, Greenwich, Conn. Filed Mar. 24, 1919. Serial No. 284,600. 1 Claim. (Cl. 296—82.)



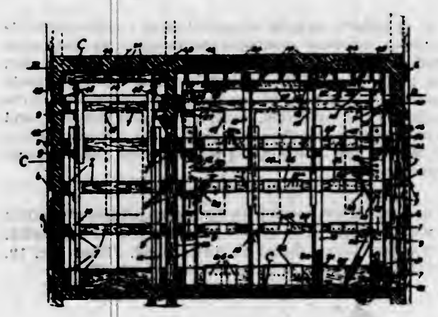
In a device of the class described, a casing having a slot in one wall, a drum having trunnions at its ends journaled in said casing, the body of the drum adapted for engagement of a robe passing through said slot; a spring on each trunnion for normally imparting movement to the drum, a ratchet wheel fast upon each trunnion, a pawl engaging each ratchet wheel, a shaft connecting the two pawls, and a pedal secured to said shaft and projecting through the casing for operating said shaft at will.

1,383,731. FLOOR-CLEANING DEVICE. ABNER LEIGH, St. Louis, Mo. Filed Dec. 8, 1920. Serial No. 429,191. 1 Claim. (Cl. 15—51.)



A floor cleaning device including a handle, a slidably adjustable collar on the handle having oppositely and downwardly extending arms, a frame connected with and supported by the arms, a mop supported in the frame, and floor engaging wheels carried by the ends of the frame.

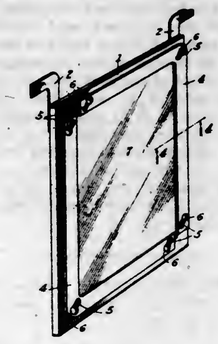
1,383,732. METHOD AND APPARATUS FOR HOUSE CONSTRUCTION. MARYAN L. LISOWSKI, Cranford, N. J., assignor to M. L. Patents Corporation, New York, N. Y., a Corporation of New York. Filed Sept. 8, 1919. Serial No. 322,452. 7 Claims. (Cl. 25—131.)



1. Apparatus for use in building framework for cement structures comprising a plurality of form plates for ceiling and side walls; beams for supporting the ceiling and side wall plates; angle beams and junction devices for supporting the ceiling beams; uprights for supporting the angle beams and side wall beams; and telescoping beams mounted upon the uprights and bracing the side wall beams.

1,383,733. FILM-DEVELOPING RACK. NAHUM ELLEN LUBOSHEZ, London, England, assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 27, 1919. Serial No. 285,498. Renewed Dec. 27, 1920. Serial No. 433,429. 5 Claims. (Cl. 95—100.)

1. A developing rack comprising a frame with side and end bars, certain of said bars having ledges formed upon one side and along their inner edge upon which the edges of a plate may be laid and movable strips on said bars



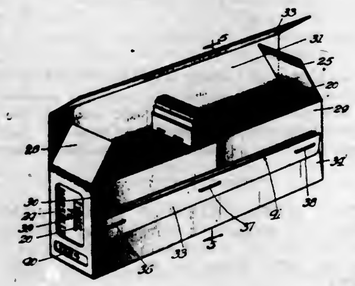
adapted to be moved into or out of position above said ledges.

1,383,734. SANITARY BED-SPRING COVER. HENRY H. LUEDECKE, Austin, Tex. Filed Nov. 30, 1920. Serial No. 427,306. 3 Claims. (Cl. 5—3.)



1. In a sanitary spring cover, comprising in combination, a top cover, a bottom cover, an absorbent germicidally treated insert between said covers, said bottom cover inturned upon itself about its lateral edges, and having the lateral edges of the top cover inturned and disposed over the inturned lateral edges of the bottom cover, and means for fastening said covers and insert together to form an impervious structure.

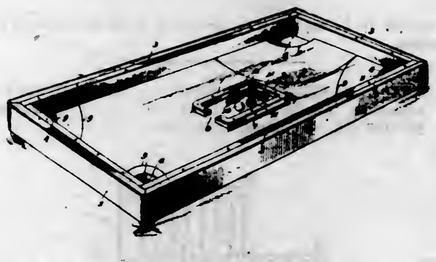
1,383,735. CARTON. MATTHEW S. MCGURN, Chicago, Ill., assignor to Poole Bros., Chicago, Ill., a Corporation of Illinois. Filed Aug. 5, 1916. Serial No. 113,230. 6 Claims. (Cl. 206—46.)



1. The combination of a pack of rectangular tickets and a safety display inclosing jacket therefor, comprising a

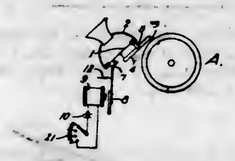
single paper blank having a base extending over the edges of all of the tickets in the pack, a pair of end pieces integrally connected to said base and having at their free edges inner safety members extending from the end pieces along and over the pack, said end pieces covering the ends of the pack and one of said end pieces being suitably apertured to display matter printed on the face of one of the end tickets of the pack, base extensions forming exterior opposed sides of the jacket and overlying the correspondingly located pairs of safety members and having extension flaps overlying the other pair of safety members, and U-shaped staple members extending from the exterior to the interior of the jacket and having their points clenched on the inside of the jacket for permanently securing together said last-named safety members and the said extension flaps.

1,383,736. GAME APPARATUS. CHARLES S. MCMAHAN, Orlando, Fla. Filed Apr. 19, 1920. Serial No. 375,095. 2 Claims. (Cl. 46—41.)



1. A game board to be manually tilted or manipulated having a playing surface formed with pockets, below the playing surface, a pen having an outlet arranged centrally of such surface, and hazard lines arranged adjacent the pockets, the relation of any one line to the pocket being different from the relation of any other line to its pocket.

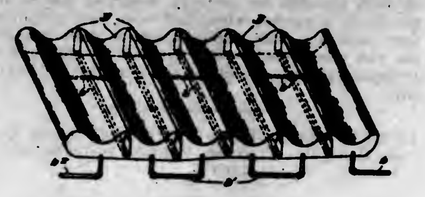
1,383,737. METHOD OF AND APPARATUS FOR RECORDING AND REPRODUCING SOUND. JAMES L. MCQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 8, 1918. Serial No. 210,847. 17 Claims. (Cl. 274—46.)



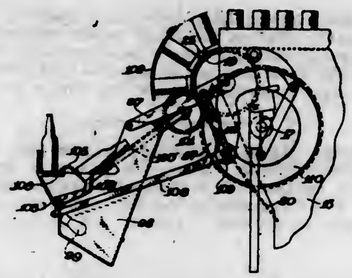
1. The method of forming sound records which consists in subjecting a sound responsive recording mechanism to sound vibrations to be recorded and reducing the sensitiveness of said recording mechanism upon the occurrence of sound vibrations exceeding a predetermined amplitude.

1,383,738. IRONING-MACHINE. ERNEST J. MALONE, Chicago, Ill., assignor to Troy Laundry Machinery Co. Ltd., Chicago, Ill., a Corporation of New York. Filed Aug. 23, 1919. Serial No. 319,312. 3 Claims. (Cl. 68—9.)

1. In an ironing machine comprising a series of steam chests and coacting ironing members, combined steam-circulating and water-draining pipes connecting the respective ends of each steam chest with the chests adjacent thereto; said pipes having water-trapping dips therein which retard the flow of steam therethrough and maintain steam pressure in the steam chests.

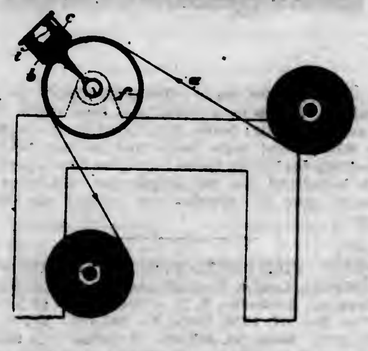


1,383,739. UNLOADER FOR BOTTLE-WASHERS. GEORGE J. MEYER, Milwaukee, Wis., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed Nov. 22, 1915, Serial No. 62,706. Divided and this application filed June 9, 1919. Serial No. 302,882. 9 Claims. (Cl. 193—24.)



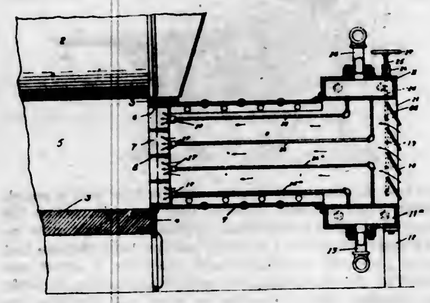
1. In a bottle washing machine having a traveling bottle conveyer, inclined parallel rods forming an inspection chute in position to receive the bottles from the conveyer, the lower part of the inspection chute being pivotally mounted, a stop for limiting the sliding movement of the bottles on the inspection chute, a discharge conveyer, and means for swinging the lower part of the inspection chute for moving the bottles along the stop onto the discharge conveyer.

1,383,740. MANUFACTURE OF INSULATING FIBROUS WEBS FOR ELECTRIC-INSULATION PURPOSES. WALTHER MEYER, Burgdorf, Switzerland. Filed Dec. 19, 1918. Serial No. 267,512. 1 Claim. (Cl. 91—36.)



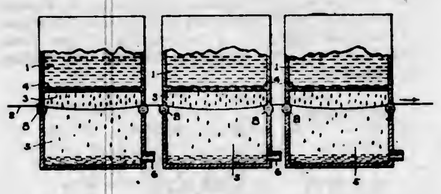
A process for the manufacture of insulating fibrous webs for electric insulation purposes, consisting in yieldingly pressing a solid block of fusible agglutinant insulating material upon one side of a movable web and in applying heat on the other side thereof at the same zone of action so as to smelt off and adherently apply agglutinant material to said web.

1,383,741. GAS-BURNER. JOE MILLER, Little Rock, Ark. Filed Apr. 8, 1920. Serial No. 372,204. 9 Claims. (Cl. 158—7.)



1. The combination, with a boiler front, of a burner brick setting mounted therein and provided with a series of holes increasing in cross sectional area from their outer toward their inner ends, pipes and gas nozzles therefor terminating adjacent the outer ends of said opening, said nozzles having flaringly arranged ports therein for directing the gas toward the walls of said openings, and means for delivering currents of air to pass through said openings around said nozzles.

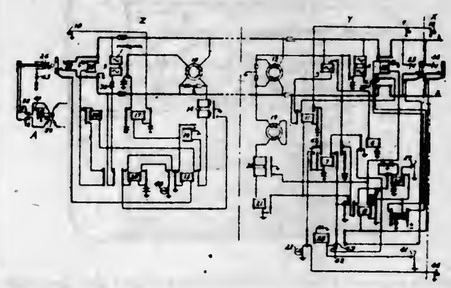
1,383,742. PROCESS FOR MANUFACTURING A WOOL SUBSTITUTE FROM CELLULOSE AND SIMILAR SOLUTIONS. PAUL HERMANN MINCK, Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed May 16, 1919. Serial No. 297,711. 6 Claims. (Cl. 18—54.)



1. A process for the manufacture of a wool substitute which comprises dissolving cellulose, squirting the cellulose solution through a spinning nozzle into a precipitating bath, and removing the chemicals from the formed thread by passing said thread through a dripping bath under a tension produced by the kinetic energy of the falling bath liquid.

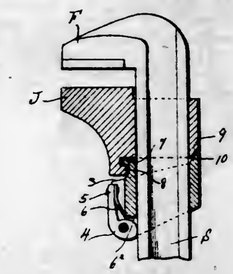
1,383,743. TELEPHONE-EXCHANGE SYSTEM. LOUIS A. MORTIMER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 24, 1918. Serial No. 251,206. 6 Claims. (Cl. 179—43.)

1. A telephone exchange system comprising a transmission line circuit, a plurality of switchboards connected thereto, a calling signal at one of the switchboards, signal control means thereat responsive to signaling current on the line, a busy signal at another of the switchboards, means controlled by the signal control means for impressing a current on one of the talking conductors of the line



interconnecting the switchboards, and means at the second mentioned switchboard responsive thereto for operating the busy signal device.

1,383,744. WRENCH. FRANK M. MURRAY, Cadyville, N. Y. Filed May 15, 1920. Serial No. 381,560. 2 Claims. (Cl. 81—152.)

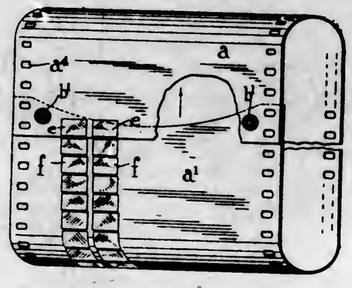


1. A wrench comprising a shank, a slidable jaw movable thereon, a holding member slidably mounted directly on the shank and coacting with the slidable jaw, said jaw and member having inclined faces coacting one with the other when pressure is imposed upon the sliding jaw whereby the holding member holds said jaw against movement along the shank, and automatically operating means carried by the holding member for maintaining the same against movement along the shank between working operations and means connecting said holding member and slidable jaw whereby said member and slidable jaw move in unison upon the shank.

1,383,745. MEANS FOR JOINING THE ENDS OF CINEMATOGRAPH-FILMS. ARTHUR SAMUEL NEWMAN, Highgate, London, England, assignor of one-third to Thomas Horace Bolam and one-third to Sidney Norman Barnard, London, England. Filed July 6, 1920. Serial No. 394,288. 3 Claims. (Cl. 88—19.5.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

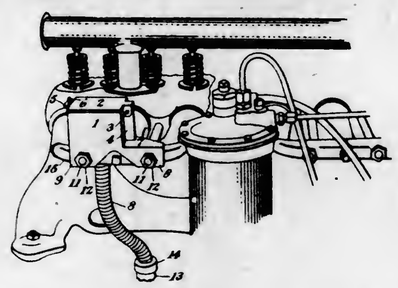
1. An improved continuous broad cinematograph film on which the pictures are arranged longitudinally and laterally thereon, the ends of said film being overlapped and the edge of the under layer having a concave end and

separate narrow means for connecting the overlapped ends of the film, one of such means being adjacent to one side



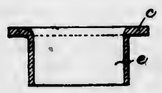
of the film and located before all the pictures and the other of such means being adjacent to the other side of the film and behind all the pictures, substantially as set forth.

1,383,746. LUBRICANT-CONDUIT. CHARLES H. NEWTON, Plainville, Conn. Filed May 20, 1920. Serial No. 382,973. 6 Claims. (Cl. 184—65.)



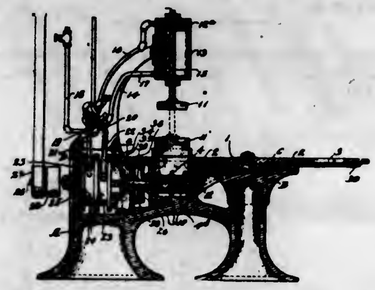
4. A lubricant conduit for automobile engines, embodying an intake box provided with means consisting of a plurality of downwardly deflected, integral flanges having openings therethrough for detachably attaching it to the engine above the crank case through the medium of the manifold stay bolts of the engine, in combination with a flexible pipe adapted to extend from said intake member to the oil intake pipe in the crank case.

1,383,747. METHOD OF MAKING FLEXIBLE SLEEVE-VALVES. WARREN NOBLE, Providence, R. I., assignor to N. C. L. Engineering Corporation, Providence, R. I., a Corporation of New York. Filed June 3, 1919. Serial No. 301,530. 5 Claims. (Cl. 29—156.7.)



1. The method of making a flexible sleeve valve which consists in providing a tube, placing such tube upon and around an arbor, and swaging the tube by the action of external dies which are caused to hammer on the exterior of the tube, thereby reducing the thickness of the tube wall and conforming its inner surface to the surface of the arbor.

1,383,748. MOLDING-MACHINE. ERNEST N. OLSON and SWAN SWANSON, Muskegon, Mich. Filed Aug. 30, 1920. Serial No. 406,901. 5 Claims. (Cl. 18—19.)

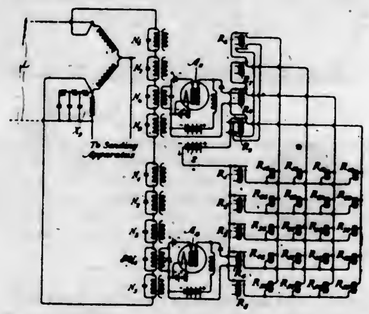


1. In a molding machine, the combination with a stand, a rotary table mounted thereon, mold boxes carried by the table and adapted to be advanced thereby, a constantly rotated operating element, a sleeve member loose thereon and having a driving connection with the table, a clutch pin carried by the sleeve and adapted to engage the rotating part, yielding means tending to move the pin into operative position, trip means for automatically moving the pin into inoperative position at a predetermined time whereby the table is intermittently rotated, a presser mounted in coöperative relation to the mold boxes, and means for operating the presser in timed relation to the table.

1,383,749. PROCESS OF TREATING CONCRETE OR THE LIKE. RAYMOND G. OSBORNE, Los Angeles, Calif. Filed Dec. 26, 1919. Serial No. 347,491. 9 Claims. (Cl. 91—70.)

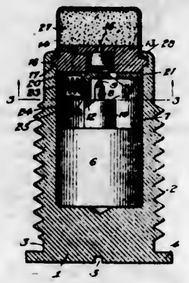
8. A process for rendering concrete impervious to fluids, embodying subjecting the concrete to a temperature sufficient to drive off part of its water of combination, and then filling the voids of the concrete with a material of fluid-proofing characteristics.

1,383,750. ALTERNATING-CURRENT SIGNALING SYSTEM. RALEIGH D. PARKER and BAXTER P. HAMILTON, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed June 26, 1918. Serial No. 242,084. 21 Claims. (Cl. 178—51.)



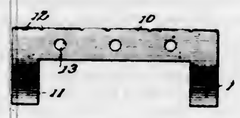
1. In a signaling system, a sending station, a receiving station, a transmission circuit interconnecting said stations, a plurality of signaling channels at said sending station, means to successively associate said channels with said transmission circuit, corresponding channels at the receiving station permanently associated with said transmission circuit, and means at the sending station to transmit currents having different characteristics for each channel as successive channels are associated with the transmission circuit and means at the receiving station responsive to said currents to select the corresponding receiving channels.

1,383,751. SELF-LOCKING BASE-FUSE. EDWARD R. PILLARS and HENRY C. LEESEBERG, Fostoria, Ohio. Filed Jan. 12, 1918. Serial No. 211,655. 4 Claims. (Cl. 102—39.)



1. In a fuse, a body, a firing pin slidable therein, a primer holder having a groove therein, a guard member slidably secured in said groove, the engagement between the guard and groove being such that the guard is thereby attached to the primer holder, said primer holder and guard each having an aperture therein and means for normally holding the holder and guard with said apertures positioned out of alinement with each other, said guard and primer holder being permanently locked together when assembled.

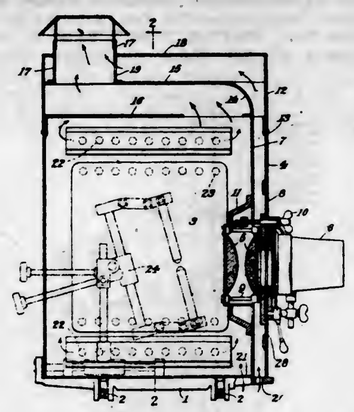
1,383,752. BANJO-BRIDGE. WILLIAM POST, Brooklyn, N. Y. Filed Nov. 1, 1919. Serial No. 335,130. 1 Claim. (Cl. 84—308.)



A banjo bridge comprising a supporting bar which is triangular in cross section and having its apex slightly flattened to form a surface, said surface being widened at the intermediate portion of the bridge and with both edges of said surface tapering to points at the ends of the supporting bar, said supporting bar being provided with transverse apertures, and supporting legs formed at the ends of the supporting bar extending at right angles thereto, the sides of said legs being a continuation of the sides of the supporting bar, said supporting legs being bored longitudinally thereof in their underside.

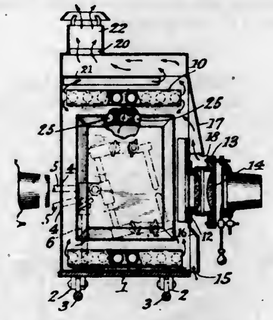
1,383,753. LAMP-HOUSE FOR MOVING-PICTURE MACHINES. NICHOLAS POWER, Brooklyn, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed June 6, 1916, Serial No. 102,072. Renewed Dec. 7, 1920. Serial No. 429,035. 12 Claims. (Cl. 240—11.)

1. A lamp house for projecting lamps consisting of a box-like housing inclosing the lamp, one wall of said housing consisting of two spaced sheets forming a passage for air circulation therebetween, said walls being formed with registering apertures for the passage of the light rays from the housing, a pair of condensers supported in said apertures, said condensers being spaced apart and with



the space between them communicating with the space between the two sheets of the wall, and air ingress and egress openings to said passage.

1,383,754. LAMP-HOUSE FOR MOVING-PICTURE APPARATUS. NICHOLAS POWER, Brooklyn, N. Y., assignor to Nicholas Power Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 12, 1915, Serial No. 55,408. Renewed Dec. 7, 1920. Serial No. 429,036. 4 Claims. (Cl. 240—11.)

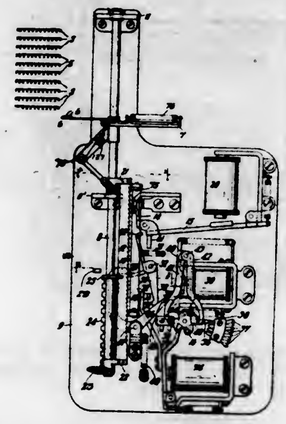


1. A lamp house for projecting lamps, consisting of a housing, doors forming the greater portion of its side walls, said doors embodying air circulating means, said walls below said doors being provided with a ventilating opening for the ingress of air, and means for directing the air received through said opening toward the end walls of the housing, said housing having an egress opening at the top thereof.

1,383,755. PROCESS OF PRODUCING DECOLORIZING-CARBON. MILTON B. PUNNETT and RAYMOND A. WHITAKER, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 12, 1919. Serial No. 296,370. 22 Claims. (Cl. 127—2.)

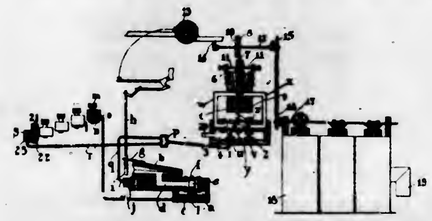
20. In the process of producing decolorizing carbon the steps of mixing carbonizable but uncarbonized material with a solution of a sulfate salt and drying and charring the carbonizable material in the mixture while open to the air.

1,383,756. AUTOMATIC SWITCHING APPARATUS FOR TELEPHONE-EXCHANGE SYSTEMS. JOHN N. REYNOLDS, Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 1, 1917. Serial No. 184,000. 6 Claims. (Cl. 179—27.5.)



1. In an automatic switch, stationary contacts, a movable contact member, a stepping pawl for moving said contact member in two distinctly separate movements in different directions to engage said stationary contacts, means for operating said pawl, means for holding said movable contact in advanced position, and a release magnet for releasing said holding means to restore the movable contact to its normal position.

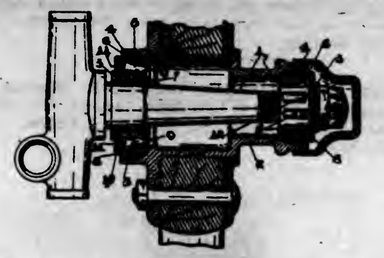
1,383,757. TYPEWRITER AND THE LIKE. REGINALD REYNOLDS, Barnes, London, England. Filed Nov. 6, 1920. Serial No. 422,309. 4 Claims. (Cl. 197—15.)



1. A pneumatically operated typewriter including type-carrying arms, bellows actuating said type-carrying arms under control of double acting relay valves, single acting valves mounted on said key buttons and controlling said double acting relay valves, pneumatically actuated spacing means and a spacing valve controlling said spacing means operated automatically by said bellows.

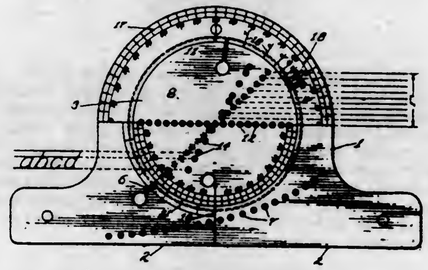
1,383,758. ROLLER-BEARING. HARRY WALTER ROBINSON, Toronto, Ontario, Canada, assignor to The Chapman Double Ball Bearing Company of Canada, Limited, Toronto, Ontario, Canada. Filed May 26, 1919. Serial No. 299,771. 3 Claims. (Cl. 64—62.)

1. A roller bearing cage of drum form having slots in its periphery through which the rollers may partly project and having ring shaped ends, one of said ends provided with integral inwardly projecting fingers extending between the rollers and the opposite end having an



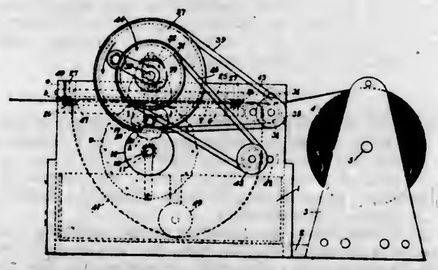
outwardly directed flange; and a ring plate folded over and connected to said flange and provided with fingers adapted for engagement with the surfaces of said rollers.

1,383,759. LINE-SPACING DEVICE. FREDERICK E. ROMIE, Oakland, Calif. Filed Jan. 14, 1920. Serial No. 351,502. 2 Claims. (Cl. 33—41.)



1. A line spacing device comprising a plate having a straight-edge base and a circular aperture therein and an annular groove in the periphery of said aperture; a member rotatably mounted within the aperture and having an annular flange of less width and slightly greater thickness than the groove whereby the sides of said groove will tend to exert a pressure upon said flange to normally prevent a free rotation thereof, said rotatable member being likewise provided with a plurality of rows of regularly spaced and alined apertures which may be arranged at an angle to said base whereby a pencil placed in successive apertures will divide a given dimension into equal spaces when said plate is moved along said base.

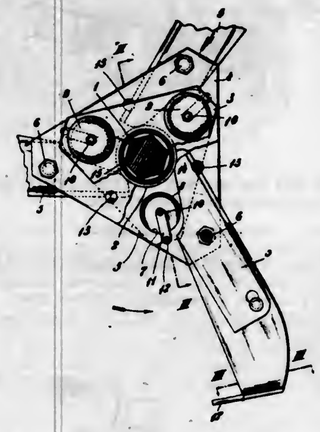
1,383,760. TRANSFER PRINTING AND ISSUING MACHINE. ARTHUR D. ROGERS, Dayton, Ohio, and ROY J. MANKER, Detroit, Mich. Filed Apr. 12, 1920. Serial No. 373,186. 11 Claims. (Cl. 101—69.)



1. In a transfer issuing machine, the combination, with a stationary printing plate having data of fixed character

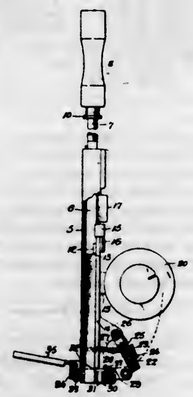
arranged thereon, of printing wheels codperating with said plate to set up in connection therewith data of variable character, a movable platen operable relative to said plate, a rotatable shaft, a device to feed a strip of paper over said plate to receive an impression therefrom and means on said shaft to operate the feeding device and the platen.

1,383,761. ROTARY DIGGING-MACHINE. ARNOLD RUTISHAUSER, Olten, Switzerland, assignor to Firm Motorwagenfabrik Berna A.-G., Olten, Switzerland. Filed Apr. 8, 1920. Serial No. 372,191. 9 Claims. (Cl. 97—62.)



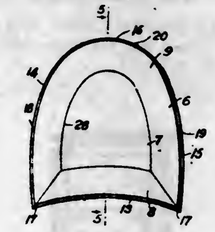
1. In a rotary digging unit, the combination of a driving axle, a pair of plates spaced apart and fixed on said axle, a second pair of plates centered on said axle arranged between and connected to the first pair by a resilient connection and a plurality of hoes the arms of which are arranged between the second pair of plates.

1,383,762. CUTTING AND PUNCHING MACHINE. CARMINE J. SALVIOLO, deceased, Brooklyn, N. Y., by Michael J. Salviolo, executor, Brooklyn, N. Y. Filed Mar. 30, 1920. Serial No. 369,962. 4 Claims. (Cl. 164—15.)



1. In a cutting and punching apparatus, the combination of a casing containing a plunger, punches carried by the plunger at its lower end, a cutting blade adjacent the punches, means for feeding a strip of sheet metal, and means forming a part of the plunger for operating the feeding means as the plunger descends.

1,383,763. RESILIENT HEEL. WALTER E. SANDERS, Trenton, N. J., assignor to Essex Rubber Company, Inc., Trenton, N. J., a Corporation of New Jersey. Filed June 6, 1917, Serial No. 173,070. Renewed Sept. 18, 1920. Serial No. 411,269. 4 Claims. (Cl. 36—35.)



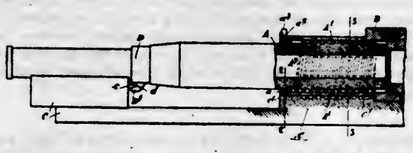
1. A resilient heel comprising a heel-section or body having a convex lower surface, the upper surface being provided with an upwardly and outwardly extending beveled marginal portion rectilinear in cross-section, and a central plane portion, the upper breast edge being concave below the plane connecting the upper corners of the heel.

1,383,764. SOCKET FOR ELECTRIC-LIGHT GLOBES. JOHN ALEXANDER SARGENT, Normanby, Taranaki, New Zealand. Filed June 13, 1919. Serial No. 303,956. 2 Claims. (Cl. 173—328.)



1. An electric light globe socket comprising a plug of non-conducting material split longitudinally to provide a plurality of substantially identical sections, each section having a top recess and bottom recesses, passages in the plug extending from the top recesses to the bottom recesses, immovable contact pieces located in the bottom recesses and designed to engage wire ends projecting through the passages, means for locking the two sections together and for locking the contact pieces in said sections, and means for forcing the contacts of a light bulb against said contact pieces.

1,383,765. MOUNTAIN-GUN. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Oct. 29, 1920. Serial No. 420,528. 5 Claims. (Cl. 89—16.)



1. A separable gun comprising a slide, a barrel detachably mounted on the slide and a rotatable breech-carrying sleeve interposed between the slide and barrel when the parts are assembled, said sleeve having external and internal threaded sectors alternating with plain sectors to

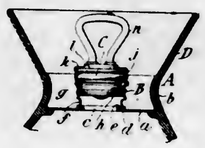
coöperate with complementary sectors of the slide and barrel respectively to lock the parts together for firing by the rotation of said sleeve, in combination with a firing mechanism including a controlling member on the breech-carrying sleeve to engage a holding member on the slide during the rotative locking movement of said sleeve to maintain the firing mechanism inoperative during such rotative movement of the sleeve until the latter is seated and the controlling member is disengaged from the holding member to render operative the firing mechanism.

1,383,766. WALL CONSTRUCTION. GUSTAV O. SCHULZ, Revere, Mass. Filed Mar. 10, 1920. Serial No. 364,811. 6 Claims. (Cl. 217—5.)



1. A wall for a receptacle comprising, in combination, a hermetically sealed envelop, a hollow core enveloped thereby and inclosing a vacuum, said core bracing said envelop against atmospheric pressure, and means coöperating with said wall to support a refrigerant and conduct drip from said refrigerant.

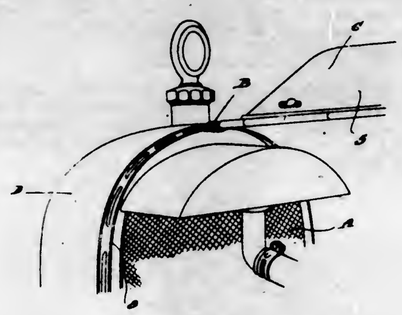
1,383,767. STOPPER FOR WATER-BOTTLES OR THE LIKE. MAXIMILIAN CHARLES SCHWEINERT, West Hoboken, N. J. Filed Nov. 12, 1915. Serial No. 61,037. 10 Claims. (Cl. 150—8.)



1. In a device of the character described, an enlarged neck member adapted to be secured within the neck of a water bottle or the like having fixed thereto a reduced socket member, a stopper screwing in said socket member, a seat at the lower part of said socket member, and apertures above said seat, said apertures constituting passages to the water bottle when the stopper is in its upper position.

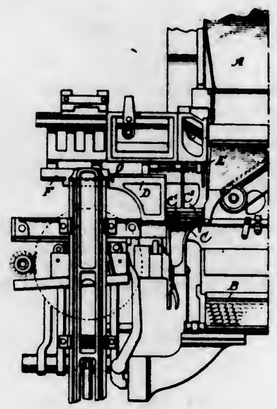
1,383,768. PIVOT SUPPORT AND RETAINER FOR AUTOMOBILE-HOODS. FRED GABRIEL SCOZZAFAVA, Gouverneur, N. Y. Filed July 27, 1920. Serial No. 399,269. 7 Claims. (Cl. 180—69.)

1. In a motor vehicle, the combination with a stationary retaining member including an upper rest wall, of a movable hood including a body and a rod, the rod being normally held in engagement with the rest wall by the weight of the hood body, and a lower guide wall connected



at one end with the rest wall and arranged for guiding the rod toward and from the rest wall.

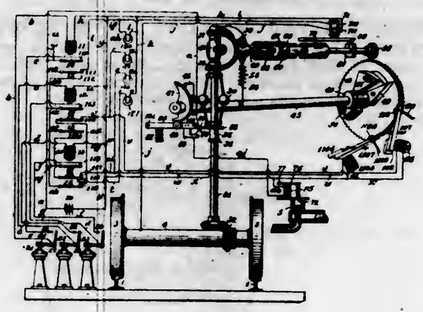
1,383,769. TYPOGRAPHICAL MACHINE. LUTHER SHEARILL, Nashville, Tenn., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed June 28, 1920. Serial No. 392,207. 6 Claims. (Cl. 199—52.)



2. In a typographical casting machine, the combination of a mold, a transporter movable into and out of operative relation therewith and constructed to support matrices therein at different levels, adjustable means carried by the transporter to vary the vertical position thereof in reference to the mold, and a device controlled by said adjustable means to permit or prevent the entrance of matrices into the transporter at an upper level, according to the adjustment of said means.

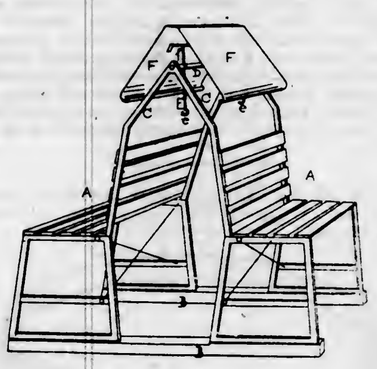
1,383,770. AUTOMATIC SPEED CONTROL FOR RAILWAYS. PAUL JOHN SIMMEN, Buffalo, N. Y. Filed Aug. 6, 1915. Serial No. 44,022. 25 Claims. (Cl. 246—182.)

24. In apparatus of the character set forth, the combination with a vehicle, of means for establishing a maximum safe speed under clear conditions, a minimum safe speed under danger conditions, and a plurality of safe speeds between the two, and means dependent on the appearance of a hazard and the distance between the same



and the vehicle for effecting the operation of said means to establish and temporarily positively electrically maintain one of said predetermined safe speeds for the vehicle.

1,383,771. DOUBLE COMBINED GOLFER'S SEAT WITH SHADES AND UTENSIL-HANGERS. JOHN SKIDMORE, Guelph, Ontario, Canada. Filed Mar. 11, 1921. Serial No. 451,573. 1 Claim. (Cl. 155—130.)

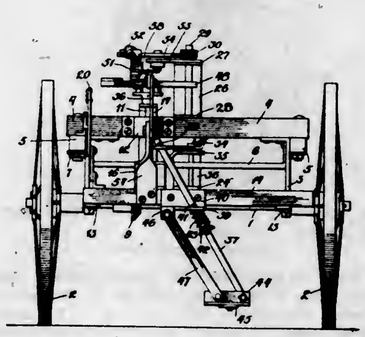


The combined double seat A, A placed back to back on a common base and united at their tops by an extension of the side bars of the backs C, C, the vertical brackets E, with hooks (e) on their lower ends and upwardly projecting extensions (f) carrying the awning F, as hereinbefore described and illustrated in the drawings.

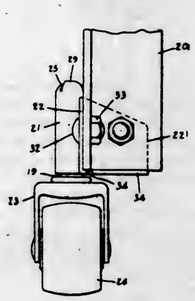
1,383,772. COTTON-CHOPPER. WILLIAM H. SMITH, Portland, Oreg. Filed Sept. 10, 1919. Serial No. 322,781. 5 Claims. (Cl. 97—45.)

2. In a machine for the purposes set forth, the combination of a frame, a chopper shank mounted upon the frame for transverse vibratory movement, means acting upon said shank for yieldably holding the same in a

lowered position, a link pivotally hung upon the frame adjacent the shank and parallel therewith, a carrier pivoted to the lower ends of the shank and the link, and a blade secured to said carrier.



1,383,773. CASTER BRACKET-SOCKET. EMIL A. SMITHFIELD, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Jan. 3, 1921. Serial No. 434,506. 24 Claims. (Cl. 16—4.)

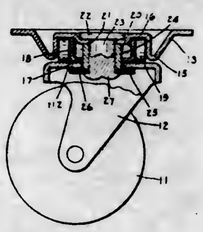


2. A caster socket formed from one piece of metal, shaped into a cylindrical body portion having a single longitudinal opening, a flap integral with said body portion opposite said opening and curved toward said opening to form an end cap, said flap extending downwardly within said cylindrical body portion adjacent the longitudinal opening to form a retaining member for the caster stem, and other flap means integral with the cylindrical body portion and curved inwardly to lie in superposed relation with said first mentioned cap forming flap to reinforce the same.

1,383,774. CASTER CONSTRUCTION. EMIL A. SMITHFIELD, Evansville, Ind., assignor to Faultless Caster Company, Evansville, Ind., a Corporation. Filed Feb. 26, 1921. Serial No. 448,129. 4 Claims. (Cl. 16—73.)

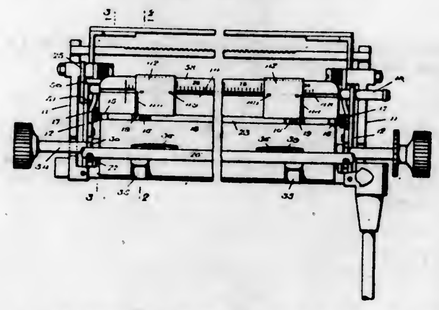
3. A caster construction comprising a spindle having two enlarged portions, circular trackway supporting means including concentric guard portions and an inner

sleeve portion rigid with the trackway when in assembled relation and concentric with said spindle, and a



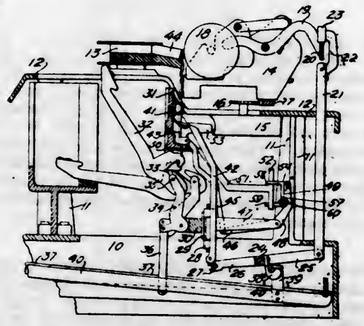
wheel supporting yoke rotatably supported upon said sleeve portion.

1,383,775. PAPER-FEEDING MECHANISM. CHARLES SPIRO, New York, N. Y., assignor to Federal Adding Machine Corporation, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1920. Serial No. 358,592. 18 Claims. (Cl. 197—130.)



1. In a typewriter, the combination of a platen, a paper table pivoted at the rear thereof and having rear paper fingers extended therefrom, and front paper fingers pivotally mounted beneath the platen axis to coöperate with the rear paper fingers and provide a substantially continuous guiding surface for the paper.

1,383,776. RIBBON-SHIFTING MECHANISM. CHARLES SPIRO, New York, N. Y., assignor to Federal Adding Machine Corporation, New York, N. Y., a Corporation of New Jersey. Filed Mar. 8, 1920. Serial No. 364,180. 12 Claims. (Cl. 197—157.)



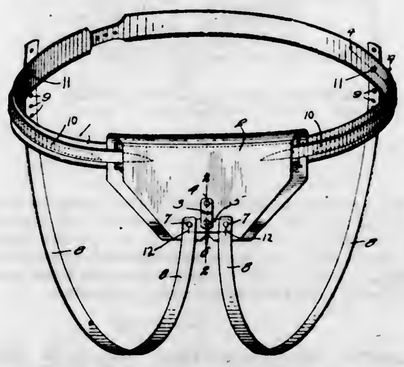
1. In a typewriter, a ribbon shifting mechanism comprising a ribbon carrier, a vibrator lever therefor, a color controlling device shiftable upon said lever to vary the extent of vibration thereof, and a universal bail having a fixed head to engage said device whereby the bail is relieved of the weight thereof.

1,383,777. HEATING APPARATUS FOR USE IN OIL-WELLS. JAMES CARLYLE STEPHENS, Norfolk, Va., assignor to Huff Process Company, Wilmington, Del., a Corporation of Delaware. Filed July 26, 1920. Serial No. 398,869. 9 Claims. (Cl. 219—33.)



1. Heating apparatus for use in oil wells comprising an inner tube projecting down into the well casing and formed of a series of separable sections connected together by coupling sleeves, an electric heater suspended from said inner tube, a series of channeled blocks secured over and engaging said coupling sleeves, and an electric cable passing through said series of blocks and having its outer surface gripped at intervals by said blocks, said cable being connected to said heater, substantially as described.

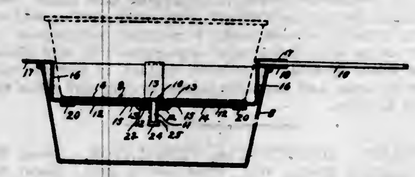
1,383,778. TRUSS. HENRY N. WITT, Morristown, Tenn. Filed Sept. 17, 1920. Serial No. 410,811. 2 Claims. (Cl. 128—96.)



1. In a truss, the combination of a leather-covered truss-pad, a vertically disposed metal strip having its upper end flush with and fastened to the front of the pad and having its lower end spaced from the front of the pad and fastened thereto, an evener strip pivotally

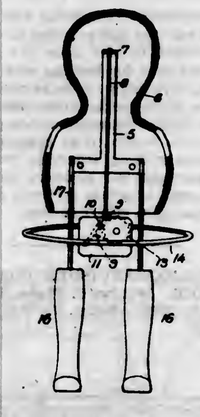
mounted under the raised portion of the vertical strip, said strip having buttons on its end, leg straps having a front end detachably secured to said buttons of the evener strip, body-encircling flexible straps to which the truss-pad is attached, and means for securing the free ends of the leg straps in adjusted positions on suitable rear portions of said body-encircling straps.

1,383,779. KITCHEN UTENSIL. FRANCES W. WORKMAN, Los Angeles, Calif. Filed Nov. 18, 1919. Serial No. 338,887. 4 Claims. (Cl. 53—2.)



1. A device of the class described, comprising a pair of vessel supporting members pivoted together at a point approximately midway between their ends, said ends being provided with extension arms telescopically secured thereto, the end of said extension arms adapted to rest on a cooking utensil.

1,383,780. TOY. DAVID ZAIDEN, New York, N. Y. Filed August 23, 1919. Serial No. 319,470. 7 Claims. (Cl. 46—40.)

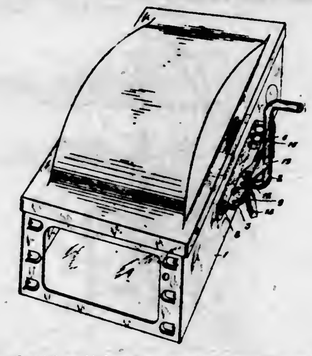


1. In a toy, the combination of a figure mounted on flexible legs, a vibratory motor carried within and supported by the figure, and means operated by the motor and adapted to agitate the figure.

1,383,781. CENTER STOP AND OUTSIDE LOCK-OFF FOR ELECTRICAL SWITCHES. ALBERT P. BALL, Royal Oak, Mich., assignor to Square D Company, Detroit, Mich., a Corporation of Michigan. Filed June 18, 1918. Serial No. 239,740. 38 Claims. (Cl. 200—42.)

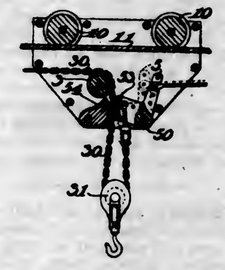
6. An outside lock off for double throw switches comprising a fixed member and a movable notched member, said members being provided with means whereby they may be locked together.

36. The combination with a double throw switch, of means permitting only a rapid continuous motion from either extreme position to the other, comprising a fixed member, a movable notched member adapted to engage



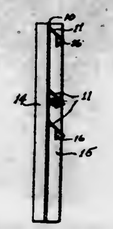
a portion of said switch when slowly operated, and means for actuating said movable member.

1,383,782. CABLEWAY-CARRIAGE. KNUTH BERGER, Seattle, Wash., assignor to Washington Iron Works, Seattle, Wash., a Corporation of Washington. Filed June 1, 1920. Serial No. 385,589. 6 Claims. (Cl. 212—110.)



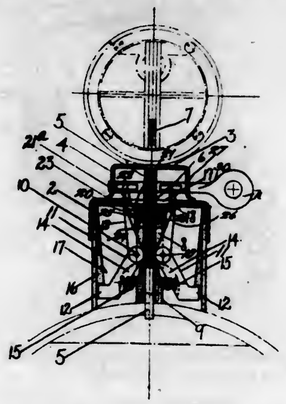
1. A fall line grip for cableway carriages comprising a hinged gripping member adapted to engage the fall line, the fall line forming a loop and having its end connected to said gripping member to hold it in gripping position, and means for releasing the grip, mounted upon the carriage and connected with the back-haul line to be actuated thereby.

1,383,783. RUBBER RAZOR. RENNIE E. BILLINGSLEY, San Antonio, Tex. Filed July 24, 1919. Serial No. 313,132. 3 Claims. (Cl. 30—12.)



1. A safety razor comprising a plate of elastic material, a plurality of cutting blades attached to said plate in parallel relation, and a facing element of flexible material bearing upon said plate and against the blades with the cutting edges of the blades projecting in advance of the facing element.

1,383,784. LOCKING MECHANISM. ANTHONY BONSA, Felton, Del. Filed Dec. 4, 1920. Serial No. 428,415. 3 Claims. (Cl. 70—90.)



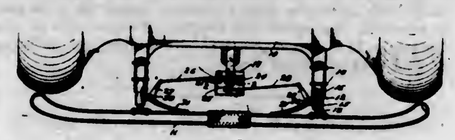
1. In combination with a tubular member having one end open and provided with an internal shoulder, a cap for closing said open end of the tubular member, a part carried by the cap and extending within the tubular member when the cap is in applied position, a movable arm carried by said part for coaction with the shoulder to hold the cap against displacement, automatic means for moving the arm into position to coact with said shoulder, said arm being provided with an angularly disposed dog, a member having movement lengthwise of the part and contacting with the dog upon movement in one direction to swing the arm free of the shoulder, means for imparting movement to the last named member in said direction, and automatic means for imparting movement to said second named member in the opposite direction

1,383,785. ROTARY WELL-DRILLING HEAD. JOHN VINCENT BOX, Los Angeles, Calif., assignor of one-third to C. R. Little and one-third to (Mrs.) William Payne Martin, (widow,) Whittier, Calif. Filed Sept. 22, 1919. Serial No. 325,552. 13 Claims. (Cl. 255—25.)



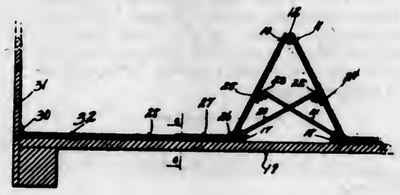
7. In a hydraulic head, the combination with a hollow shaft journal provided with supporting means, of a bearing plate for said supporting means; said bearing plate being provided with an inverted truncated conical raceway, a base plate provided with a truncated conical inwardly depressed raceway and truncated rollers in said raceways.

1,383,786. SAFETY DEVICE. LEWIS P. BRADDY, San Francisco, Calif. Filed Apr. 14, 1920. Serial No. 373,948. 5 Claims. (Cl. 116—32.)



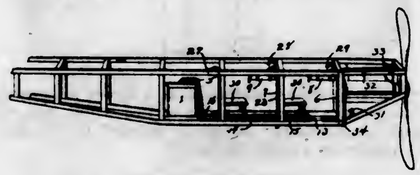
1. The combination in a device of the character described of an automobile license or identifying card holder comprising a box having a hinged downwardly opening bottom, with inwardly turned hooks, a revoluble bolt vertical to the bottom with elastic arms engageable with said hooks, and means operable by collision contact, to turn the bolt and its arms, and cause the bottom to open and allow the card to drop.

1,383,787. SHIPPING-CAR VENTILATOR. JESSE W. CALHOON, Racine, Wis. Filed Dec. 6, 1920. Serial No. 428,688. 5 Claims. (Cl. 98—26.)



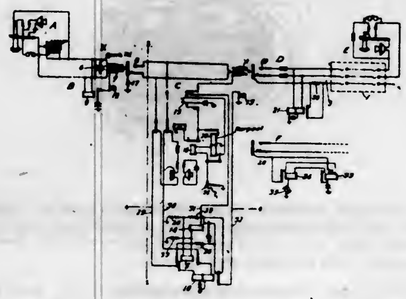
5. A ventilating device comprising two foraminous side members hinged together and provided at their outer edges with flanges adapted to rest upon the floor, means including hooks and eyes for holding said members at the desired angle to each other, rods pivotally connected to said outer edges to brace the same against the sides of the container in which the ventilator is placed, said rods being adjustable in length to fit containers of different sizes, said ventilator being separable longitudinally into a plurality of sections, end members hinged to the side members, and means to secure said end members to close the space between said side members.

1,383,788. FIRE-EXTINGUISHER FOR AEROPLANES AND THE LIKE. WALTER C. CLARK, Fort Worth, Tex. Filed July 15, 1919. Serial No. 310,998. 4 Claims. (Cl. 169—2.)



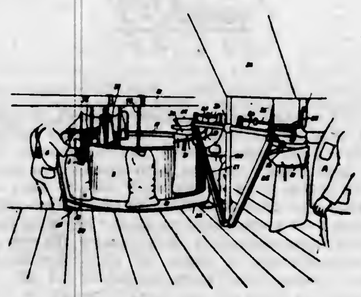
1. Fire-extinguishing means for aeroplanes and the like comprising a vessel containing fire-extinguishing material, a compressed air tank in operative relation to said vessel, spraying nozzles in front of different seats of the aeroplane and pipes conecting said nozzles with said vessel, means positioned in front of each seat whereby the occupant of the aeroplane can utilize the compressed air from said air tank to force the fire-extinguishing material from said vessel through said nozzles, and a manually operated pump operatively connected to said compressed air tank.

1,383,789. TELEPHONE-EXCHANGE SYSTEM. ROY D. CONWAY, Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 24, 1918. Serial No. 251,223. 7 Claims. (Cl. 179—27.)



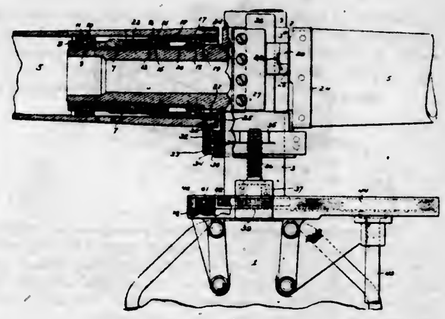
1. A telephone exchange system comprising a trunk circuit extending from a first to a second central office, a line circuit terminating at the second central office, a station thereon, a control conductor, switching means at the second central office controlled over the conductor and adapted to connect the trunk to the line, means responsive to the answer of the called station to cause a predetermined variation in the resistance of the conductor, a relay in the trunk circuit operating upon the connection of the trunk with the line and releasing upon the response of the called station, and a signaling device at the first central office controlled by the relay.

1,383,790. BAG-HANDLING APPARATUS. JOHN J. CURRAN, West Haven, Conn., assignor to The American Agricultural Chemical Co., New Haven, Conn., a Corporation. Filed Feb. 24, 1921. Serial No. 447,539. 3 Claims. (Cl. 226—53.)



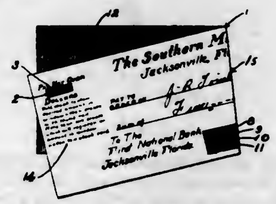
1. In a bag-handling apparatus, the combination with a rotary, annular platform, of a bag-support upstanding from the inner portion of the said platform for preventing the bags dropped thereupon from toppling inward with respect thereto, bag-handling mechanism located adjacent to the outer edge of the said platform and adapted to carry bags thereover preparatory to dropping them thereupon, and a sewing-machine having its sewing-head positioned directly above the platform for the sewing of the mouths of the bags as they are brought under it by the rotation of the rotary platform.

1,383,791. PROPELLER. THOMAS A. DICKS, Pittsburgh, Pa., assignor to Standard Steel Propeller Company, Pittsburgh, Pa. Filed Jan. 3, 1920. Serial No. 350,207. 10 Claims. (Cl. 170—163.)



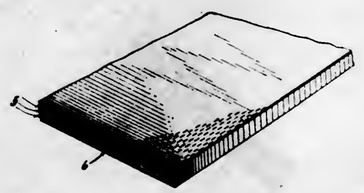
1. A propeller comprising a hub having arms, blades having tubular portions receiving said arms and mounted to turn thereon, adjusting means for said blades mounted on the outside of the hub and engaging exterior parts of the blades, and means for operating said adjusting means.

1,383,792. CHECK. DWIGHT M. DICKINSON, Atlanta, Ga. Filed Sept. 23, 1920. Serial No. 412,134. 3 Claims. (Cl. 283—9.)



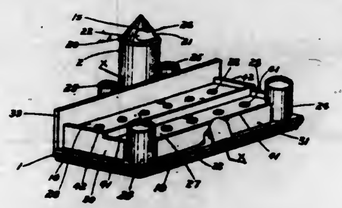
1. A piece of commercial paper provided with an opening and having a mark denoting value, the paper having a crease which is visible when the paper is unfolded, the mark registering with the opening when the paper is folded at the crease.

1,383,793. COMPOSITION BODY FOR SHOE-SOLES AND THE LIKE. HENRY K. ECKEL, Milwaukee, Wis. Filed Feb. 7, 1919. Serial No. 275,568. 1 Claim. (Cl. 154—52.)



A wear-resisting composition body comprising a plurality of layers of woven fabric impregnated with and maintained in cohesion by rubber cement mixed with powdered iron ore, the fabric material constituting the major portion of the composition.

1,383,794. GAME. GLADYS B. FRISBIE and FRANKLIN S. FRISBIE, Cambridge, Mass. Filed June 4, 1917. Serial No. 172,832. 29 Claims. (Cl. 46—59.)



1. In a game apparatus, a holder, piston means operating within the said holder for causing balls to be projected from the said holder, and inclined deflecting means cooperating with the said piston means and adapted to engage and deflect in various directions the said balls as they are about to leave the said holder.

1,383,795. TOY. FRANK FOWLER, Philadelphia, Pa. Filed Aug. 25, 1920. Serial No. 405,903. 1 Claim. (Cl. 244—2.)



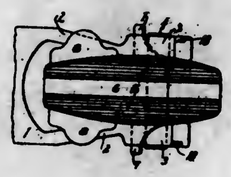
In a toy of the character described, a flying member, propeller blades formed with said member, a sleeve carried by the flying member, a stem having a reduced section therein, a rounded head carried by the outer end of said reduced section, said head and reduced section adapted to pass within the sleeve, said head having bearing contact with both the sleeve and the flying member and a handle to which the stem is secured.

1,383,796. TROLLEY-HARP EXTENSION. WALTER F. FREEMAN, Springfield, Mass. Filed Mar. 5, 1921. Serial No. 449,681. 22 Claims. (Cl. 191—60.)



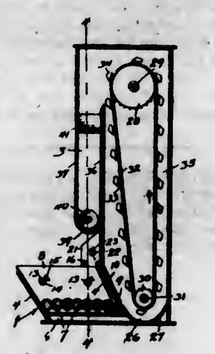
1. The combination, in a trolley harp extension, with a trolley-pole harp and its axle, the latter being in an approximately vertical plane, of non-pivotal rocking means mounted indirectly on said axle and adapted to carry a trolley wheel.

1,383,797. TROLLEY-SHOE. WALTER F. FREEMAN, Springfield, Mass. Original application filed Mar. 5, 1921, Serial No. 449,681. Divided and this application filed Apr. 15, 1921. Serial No. 461,520. 9 Claims. (Cl. 191—59.)



1. As an improved article of manufacture, a trolley shoe comprising separable sections, adapted to be mounted on the axle, of a trolley-pole harp, and removable means to secure such sections together.

1,383,798. BAKER'S PROPORTIONATE FLOUR FEEDER AND MIXER. EUGENE GASE, Saginaw, Mich., assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Filed Dec. 4, 1920. Serial No. 428,336. 9 Claims. (Cl. 259—4.)



1. In a machine for the purpose described, in combination a wide hopper, rotatable parallel rollers having approximately the same diameter and forming the bottom of the said hopper, partition walls arranged vertically to the said rollers so as to form with the side walls of the said hopper as many compartments as there are different materials to be proportioned, means for adjusting the said partition walls sidewise so as to regulate the size of the said compartments, an outlet for the proportioned materials arranged closely above the last of the said rollers and extending along its whole length, means for rotating all the said rollers at the same time with equal celerity and in the direction of the said outlet, and means for mixing the proportioned materials leaving the latter.

1,383,799. ELECTRICAL REGULATING DEVICE. EDGAR W. GENT, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 1, 1920. Serial No. 378,330. 4 Claims. (Cl. 219—48.)

1. In an electrical regulating device, a movable contacting member, a supporting member, a plurality of terminals on said supporting member, an eyelet for each terminal extending through said terminal and said supporting member said eyelet being formed to provide a



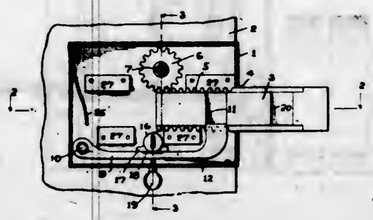
positive seating contact for said contacting member and a conducting medium connected to said terminals.

1,383,800. AUTOMOBILE-LIFT. ALBERT GEBMAR, Des Moines, Iowa. Filed Mar. 25, 1921. Serial No. 455,665. 9 Claims. (Cl. 254—94.)



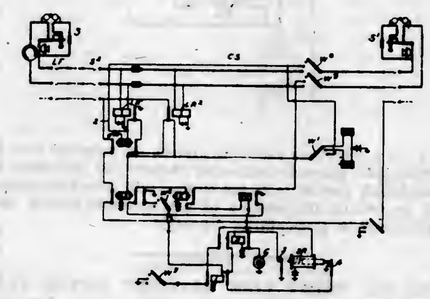
1. An automobile lift comprising a pair of spaced runways, a pair of frames secured to said runways, arm pivoted to one of said frames, and wheels rotatably mounted on the other of said frames, each of said frames being capable of having one end raised for varying the height of said arms or said wheels, means for engaging said frames for holding them in their raised positions, and means for permitting the frames to be spaced at various distances relative to each other for use with various sizes of automobiles.

1,383,801. LOCKING DEVICE. EUGENE GLISONI and ERNEST VON BECK, New York, N. Y.; said von Beck assignor of his entire right to Carlo Dalboni, New York, N. Y. Filed Oct. 29, 1920. Serial No. 420,446. 4 Claims. (Cl. 70—29.)



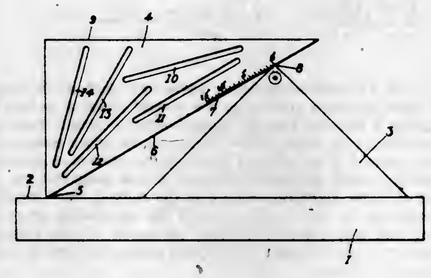
1. The combination of a bolt, a retainer to engage the bolt when projected to full operative position, a key-operated element to disengage the retainer from the bolt, a member independent of the retainer to project or withdraw the bolt when disengaged from the retainer, and a part to limit the projection of the bolt to prevent the retainer from engaging same, rendering the retainer ineffective and permitting the withdrawal of the bolt by said member, said part being operable to release the bolt to permit it, whenever desired, to move into position to be engaged by said retainer.

1,383,802. SIGNALING DEVICE. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 14, 1917. Serial No. 168,441. 5 Claims. (Cl. 179—18.)



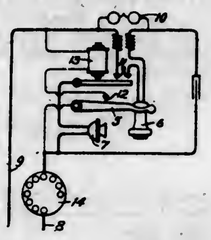
1. In a telephone system, a signaling device for actuating the call bells of the subscribers' lines comprising a source of ringing current, means for switching said source of ringing current on and off subscribers' lines periodically, a relay for controlling the lengths of said periods, a second relay unresponsive to the initial and responsive to additional demands on said device for causing the instant switching on of said ringing current at each demand.

1,383,803. PROTRACTOR OR DRAFTING IMPLEMENT. JOSEPH MARR GWINN, Jr., New Orleans, La. Filed Nov. 19, 1920. Serial No. 425,135. 5 Claims. (Cl. 33—75.)



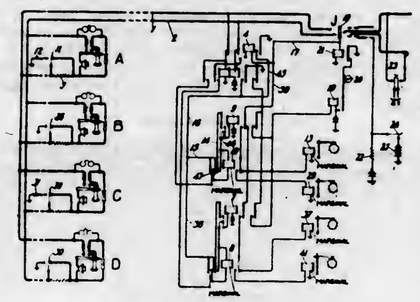
1. Apparatus for defining variable angles and comprising two triangle elements and an element having a straight edge, one of said triangle elements having a graduated scale along one edge to co-act with the vertex of the other triangle element to indicate the angle formed by one edge of the first named triangle element with said straight edge, and said triangle elements being adjustable relatively to one another along the plane of said straight edged element.

1,383,804. TELEPHONE-EXCHANGE SYSTEM. JOHN A. HALL, Bayside, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1918. Serial No. 263,138. 6 Claims. (Cl. 179—81.)



1. In a telephone exchange system, an outgoing line, a substation apparatus connected thereto and including a switchhook and contacts for closing said line, and means for preventing the opening of said contacts should the switchhook be momentarily depressed.

1,383,805. PARTY-LINE METERING SYSTEM FOR TELEPHONE-EXCHANGES. JOHN A. HALL, Bayside, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 19, 1919. Serial No. 339,179. 4 Claims. (Cl. 179—18.)



1. In a telephone system, a party line, stations thereon, a meter for each station at the central office, a metering circuit, a line relay at the central office, a circuit therefor including both sides of the party line in series closed by the removal of the receiver at the calling station, a manual switch at each station independent of the receiver hook, a set of meter switching relays at the central office jointly controlled by the manual switch of the calling station and said line relay to connect the meter of the calling station to the metering circuit, and means for closing said metering circuit.

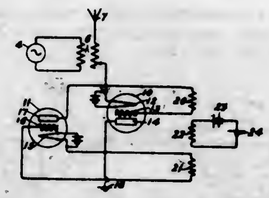
1,383,806. SHEET-METAL RIVET. ROY W. HAYNES, Philadelphia, Pa., assignor to Penn Rivet Corporation, Philadelphia, Pa., a Corporation of Virginia. Filed Sept. 1, 1920. Serial No. 407,564. 5 Claims. (Cl. 85—38.)

1. A one-piece sheet metal rivet having a hollow cupped head, legs integral with the outer marginal rim of the cupped head, each of said legs having a portion bent inwardly toward the center of the head and into the cupped interior thereof to engage the concaved surface of the head, and having the remaining portion thereof bent to form a prong extending from the head at substantially



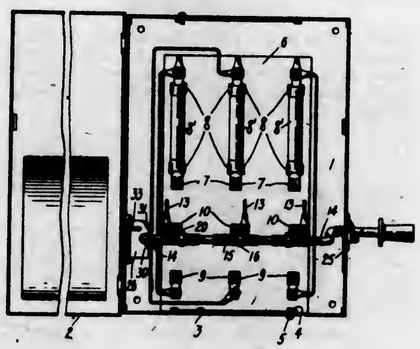
a right angle to the plane of said rim, said rim constructed to rest throughout its periphery firmly upon the surface to which the rivet is secured.

1,383,807. POWER MODULATION FOR RADIOTRANSMISSION. RAYMOND A. HEISING, East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Sept. 21, 1915. Serial No. 51,762. 19 Claims. (Cl. 250—6.)



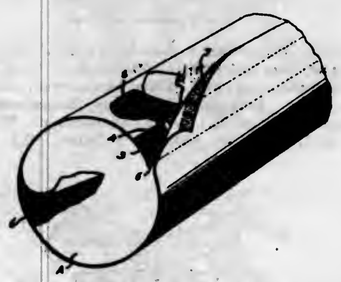
9. An antenna, two constantly active thermionic impedances connected in parallel in reverse directions between two points in said antenna, and means for varying each impedance in accordance with signals.

1,383,808. ELECTRICAL SWITCH. BRYSON DEXTER HORTON, Detroit, Mich., ALBERT P. BALL, Royal Oak, Mich., and FREDERICK ZENKER, Highland Park, Mich., assignors to Detroit Fuse & Mfg. Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 4, 1916. Serial No. 82,197. 19 Claims. (Cl. 200—8.)



16. In a motor starting switch having stationary starting and running contact members and coöperative movable contact members, the combination of means controlling the sequence of operations of said switch and allowing only a rapid motion of the movable contact members from starting to running position, and automatic means for quickly throwing said switch from starting to running position.

1,383,809. PAPER TUBE AND CONTAINER. CHARLES H. HOWARD, Saugus, Mass., assignor to Paper Products Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 12, 1919. Serial No. 316,964. 2 Claims. (Cl. 229—3.1.)



1. A paper tube formed from a blank which is composed of two superposed layers of paper secured together by a layer of waterproof adhesive, one of the layers of paper having a marginal portion longitudinally of the blank which is free from waterproof material and which extends beyond the edge of the superposed layer of paper, a non-waterproof adhesive for securing said marginal single ply portion to the inner wall of the double ply portion of the blank to form the blank into a tube, and a waterproof adhesive securing the longitudinal marginal portions of the double ply blank to each other in overlapping engagement and in position to exclude atmosphere moisture from said non-waterproof adhesive.

1,383,810. DEMOUNTABLE RIM. HENRY MARTIN HOWELL, Monroe, La., assignor, by direct and mesne assignments, of seven and one-half per cent. to Charles Schultze, seven and one-half per cent. to Richard Downs, seven and one-half per cent. to John E. Doughtie, seven and one-half per cent. to Shelby C. Blackmon, seven and one-half per cent. to Arthur King, fifteen per cent. to Louis H. Krickel, and thirty-five per cent. to Samuel Kaplan, Monroe, La. Filed Jan. 6, 1920. Serial No. 349,723. 4 Claims. (Cl. 301—11.)



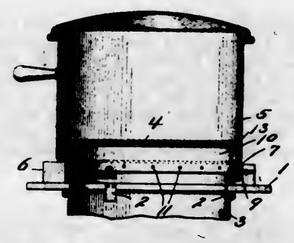
1. A demountable rim of the character described comprising the combination with a rim base section, an inner tire-retaining flange integral with said base section and a removable outer retaining flange, of an inner locking plate integral with said base section, spaced arcuate locking flanges integral with said inner locking plate, each of said flanges having an enlarged head spaced from the inner locking plate, an outer locking plate integral with said removable outer tire-retaining flange having a circumferential channel on its inner side and provided with a plurality of arcuate shoulders spaced circumferentially to permit entrance of the enlarged head in the said channel and spaced radially to accommodate said arcuate flanges when said enlarged heads are confined behind said shoulders, and means for maintaining said locking plates against circumferential movement, all as and for the purposes set forth.

1,383,811. WINDOW-VENTILATOR AND THE LIKE. ELMER E. HUNT, Chicago, Ill. Filed Apr. 30, 1920. Serial No. 377,812. 1 Claim. (Cl. 98—81.)



The combination with a ventilator plate of a dust guard removably mounted on the upper edge of said plate, said dust guard comprising a strip of sheet metal folded to provide a downwardly facing channel of width to firmly embrace the upper edge of the plate, and also to provide an outwardly extending downwardly facing lip for the entrapment of dust or other foreign matter carried by the air flowing up over the outside face of the plate, substantially as described.

1,383,812. ASH-SIFTER. MACKINTOSH HUTCHINSON, Toronto, Ontario, Canada. Filed Jan. 2, 1919. Serial No. 269,299. 3 Claims. (Cl. 83—60.)



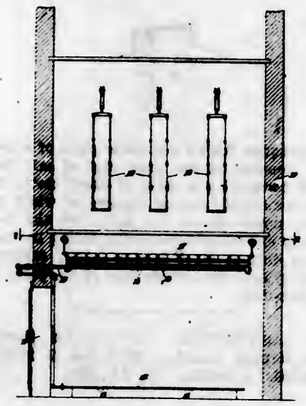
1. A sifter comprising a demountable rim adapted to rest upon a receptacle, rollers and bearings therefor attached to said rim, and a container provided with a sieve, the lower wall of the container extending below the sieve to constitute a flange to rest upon the periphery of the rollers of the demountable rim, said container and its sieve being separable and removable from the demountable rim without removal of the rim and its rollers from the receptacle.

1,383,813. FRICTION-CLUTCH. AUGUST C. JACOBI, Sunnyvale, Calif. Filed Nov. 6, 1919. Serial No. 336,016. 6 Claims. (Cl. 192—41.)



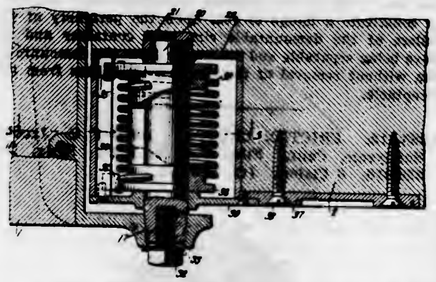
1. In a device of the class described, a drive element, a clutch member pivoted thereon to turn therewith and to rock on a fixed center, means tending to rock the clutch member, on said fixed center to the release position, and a driven element having inner and outer annular flanges presenting an annular groove therebetween, said clutch member having a lateral member receivable in said groove and adapted to engage the outer flange by a relative forward movement of the drive or to engage against the inner annular flange when released.

1,383,814. SMOKEHOUSE. AURELIAN L. KANE, Ossining, N. Y. Filed Sept. 14, 1920. Serial No. 410,190. 3 Claims. (Cl. 99—2.)



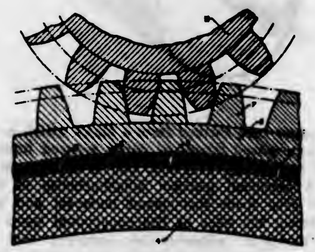
1. In apparatus of the character described: the combination with a housing; of means for supporting, in the upper portion thereof, products to be smoked, said housing being adapted to contain smoke producing material in the lower portion thereof; gas supply means to ignite said smoke producing material; additional gas supply means; and heat resisting material above said additional gas supply means and below the support for said products.

1,383,815. PIVOT SPRING-HINGE. OSCAR KATZENBERGER, Chicago, Ill., assignor to Lawson Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 12, 1918, Serial No. 239,597. Renewed May 2, 1921. Serial No. 466,217. 4 Claims. (Cl. 16—182.)



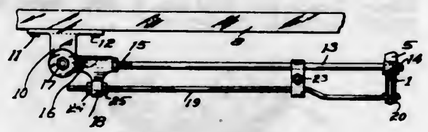
1. A pivot spring hinge comprising a pivotal pin having a tapering lower end, a connecting member for connecting the pivotal pin with a support, said connecting member having a tapering aperture for receiving the tapering end of said pin, said pivotal pin having a threaded socket on the tapering lower end, a clamping threaded member engaging said threaded socket for drawing the tapering lower end of said pin into said tapering aperture, said threaded member of said tapering lower end permitting an adjustment of the pin for securing a desired alinement, a lug extending from said pin, a plate loosely mounted on said pin adjacent each end, each of said plates having shoulders facing in opposite directions, the shoulder on one plate engaging one side of said lug and the shoulder on the other plate engaging the opposite side of said lug, a spring surrounding said pin with one end projecting into one of said plates and the opposite end projecting into the opposite plate, a casing adapted to be connected to a door, a projection extending from said casing, and means on each of said plates overlapping said projection, said overlapping means engaging said projection on opposite sides whereby the said door is normally held in a given position and moved back by said spring when moved therefrom.

1,383,816. COMPOSITE GEAR-WHEEL. HULDRICH KELLER, deceased, Zurich, Switzerland, by Katharina Keller, administratrix, Zurich, Switzerland, assignor to the Firm Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Filed May 13, 1921. Serial No. 469,299. 4 Claims. (Cl. 74—28.)



1. A composite gear wheel, comprising a wheel body provided with a rim the meridian section of which is of U-shape open toward the outer side, a ring consisting of an elastic material inserted between the shanks of the U-shaped rim of said wheel body and provided with a cylindrical circumference, and a rigid toothed rim shrunk onto said elastic ring.

1,383,817. FRONT-AXLE RADIUS-ROD. GEORGE S. KING, South Berkeley, Calif. Filed Dec. 29, 1919. Serial No. 347,967. 1 Claim. (Cl. 267—66.)

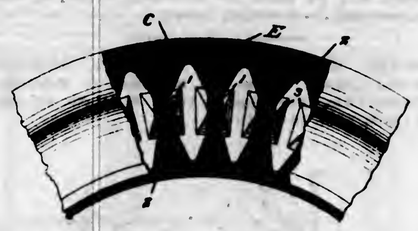


A radius rod for motor car axles comprising a bracket adapted to be secured to the under side of a motor car frame, a yoke pivotally connected to the bracket, a rod threaded into said yoke and connected at its opposite end to the axle, a second rod connected to the under side of the axle and secured to a depending lug on the yoke, lock nuts for adjusting the position of the lower rod and means to connect the two rods to prevent them from vibrating unduly.

1,383,818. CUSHION-TIRE. DEE W. KIRBY, Gurdon, Ark. Filed Nov. 24, 1920. Serial No. 426,206. 4 Claims. (Cl. 152—5.)

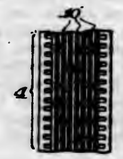
4. A tire comprising a carcass and a plurality of cushioning elements arranged within the carcass and extending circumferentially therearound, each of said elements being cruciform and extending transversely of the carcass, the outer end portions of the arms of the elements being substantially pyramidal in form with the apex portions inwardly directed, opposed arms of each of the elements being alined in a direction radially of the carcass, the remaining arms being opposed and extending

transversely of the carcass, the inner portions of the first named arms providing an elongated restricted part, the



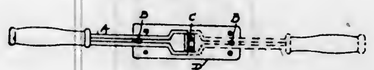
second pair of opposed arms being connected at the junction portion of the first named arms.

1,383,819. PRODUCING MATRICES AND COLOR-SCREENS THEREFROM. ISIDOR KITSEE, Philadelphia, Pa. Filed May 6, 1919. Serial No. 295,254. 5 Claims. (Cl. 95—81.5.)



1. The method of producing a color screen integral with moving picture film which consists in first producing a matrix with the required fine lines with the aid of a one row templet, printing therefrom on a bichromate sensitized substratum, raising the protected parts and coloring then selectively the substratum with at least two colors.

1,383,820. REVERSIBLE BRUSH-HANDLE. CHARLES KLEMM, Lawrence, Mass. Filed Oct. 6, 1920. Serial No. 415,194. 1 Claim. (Cl. 306—19.)

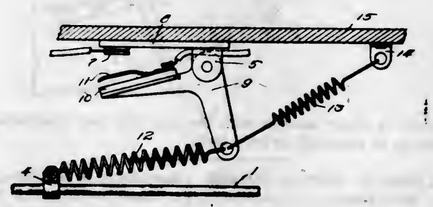


The combination with a brush body of a handle comprising a spring wire bent into a loop having a straight cross bar hingedly connected to the middle of the brush body and two parallel slightly spaced apart portions secured in the handle grip; the brush body having a pin at each end adapted to be sprung between said parallel portions to hold the handle in contact with either end portion of the body of the brush.

1,383,821. SWITCH FOR STOP-SIGNALS FOR AUTOMOBILES. ALFRED L. KOENIG, Chicago, Ill. Filed Dec. 1, 1919. Serial No. 341,725. 3 Claims. (Cl. 200—59.)

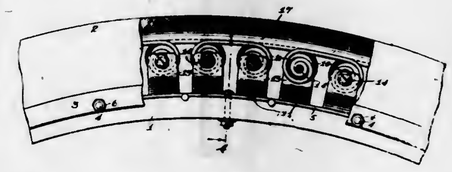
1. In a vehicle signal, a base adapted to be secured to the vehicle adjacent to the braking rod thereof, a contact on one end of the base, a bell crank lever pivoted to and depending from the opposite end of the base, a contact insulated from and carried by the bell crank and engageable with the base contact, a light spring connected to one end of the lever and to the car for normally holding the lever inoperative, and a heavier spring connected to said end of the lever and to the braking rod for moving the lever to operative position upon actuation of the braking rod and for allowing movement of said rod after the lever has reached its limit of movement.

2. In a vehicle signal and operating device for actuation by the braking device of the vehicle, means to render the signal operative including a pivoted lever formed for attachment to and for depending from the car bottom, a spring connected to one side of the lever adjacent the lower end thereof and adapted to be connected to the brake rod whereby to permit of movement of the brake rod after the lever has reached its limit of movement, and a spring connected to the opposite side of the lever and adapted to be attached to the car bottom for restoring the lever to normal position upon release of the brake rod.



3. In a vehicle signal, a longitudinally movable actuating rod, a bell crank lever adapted for securement to the vehicle with one arm extending toward the rod and terminating in an eye, a spring connecting the eye to the rod, a lighter spring connected at one end to the eye and extending oppositely therefrom to a fixed point, an insulating block fixed on the other arm of the bell crank lever, and spaced contacts one of which is resiliently carried by the block.

1,383,822. TIRE. VRATISLAV KUBELKA, Ridgewood, Brooklyn, N. Y. Filed Oct. 26, 1920. Serial No. 419,684. 8 Claims. (Cl. 152—8.)

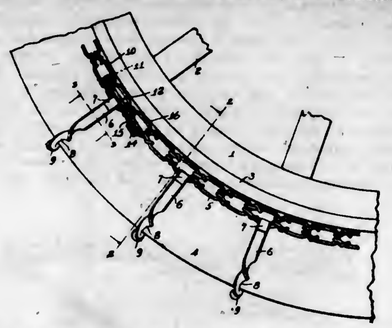


8. In a tire, an annular chain of spring links, said links substantially U-shaped, the legs of the U forming coils, said links arranged in groups of parallel links, the coils of each group of links located between and in alinement with the coils of an adjacent group, bolts passed through the alined coils, brackets supporting the bolts, said chain and its associated parts adapted to be inclosed in a tire shoe, said brackets spacing the coils from the inner surface of the shoe, an annular resilient filler band located around the chain and preventing the engagement of the intermediate portion of the links and the inner surface of the shoe, a staggered arrangement of beveled lugs on the filler band interlocking in the interstices of the links, and said filler band and brackets preventing lateral or radial movement of the chain relative to the shoe and rim.

1,383,823. ANTISKID DEVICE. VRATISLAV KUBELKA, Brooklyn, N. Y. Filed Feb. 12, 1921. Serial No. 444,427. 1 Claim. (Cl. 152—14.)

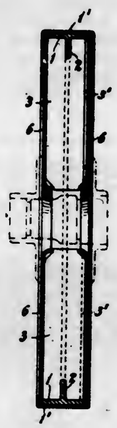
In an anti-skid device, a pair of annular chains adapted to encircle opposite sides of a tire, a plurality of U-shaped

members extending transversely of the tire shoe and having their ends connected to the chains, said members lo-



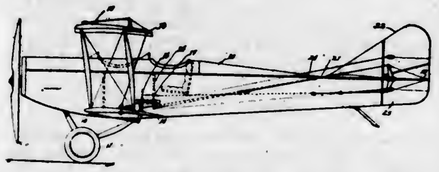
cated in direct contact with the tire shoe and comprising strips of hardened twisted steel.

1,383,824. METAL WHEEL. LAURENCE S. LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed June 3, 1919. Serial No. 301,459. 8 Claims. (Cl. 301—63.)



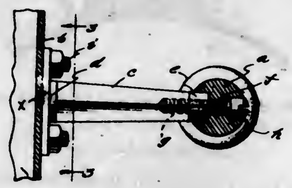
1. In a metal wheel, a metal rim having an internally projecting continuous metal flange integral therewith and a rigid metal spoke member consisting of metal bars interlocked with the flange of the rim by notches on the ends of said spokes and flange as and for the purpose described.

1,383,825. CONTROL. WILLIAM GRINNELL LANDON, New York, N. Y. Filed May 5, 1920. Serial No. 379,080. 1 Claim. (Cl. 244—29.)



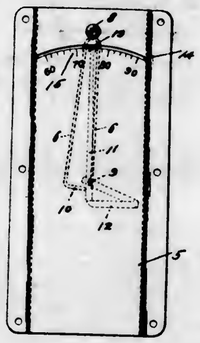
A control, including in combination with a fuselage, and duplicate sets of controls associated therewith, each set comprising a rudder, elevators and ailerons, of two independent joy-sticks in said fuselage, and means extending between said joy sticks for detachably connecting and synchronizing the movement thereof.

1,383,826. HANDLE. JARED S. LAPHAM, Northville, Mich., assignor of one-half to James T. McMahon, Toledo, Ohio. Filed Sept. 2, 1920. Serial No. 407,685. 1 Claim. (Cl. 16—103.)



In a handle having in combination, a handle member bored to receive the shank of a screw and provided with a counterbore at each end of the said bore, a fixture or bracket for attachment to a supporting member and provided with a spindle portion having a load-carrying end adapted to engage one of the counterbores and a screw having a threaded shank portion adapted to engage in the bore and a head portion adapted to engage in the other counterbore, the threaded shank engaging also in a tapped opening in the end of the said spindle.

1,383,827. MECHANICAL THERMOMETER. WILLIAM LARSON, Minneapolis, Minn. Filed Oct. 4, 1920. Serial No. 414,577. 4 Claims. (Cl. 73—118.)



1. In a mechanical thermometer an approximately U-shaped expansion element having its prongs turned downwrd, and an indicator arm pivoted to one prong of said expansion element and stopped by the other prong thereof, said arm being weighted at one side of its pivot so that it will maintain contact with the stop acting prong of said expansion element.

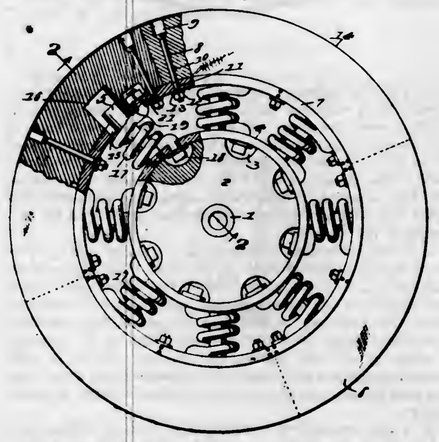
1,383,828. ADVERTISING DEVICE. CHARLES MCGINN, Cleveland, Ohio. Filed Dec. 30, 1919. Serial No. 348,458. 2 Claims. (Cl. 40—124.)

1. In a display device for advertising cards, the combination with a mirror, of flexible members having spaced openings therein, and attached in parallel lines to the top, side and intermediate bars of the mirror frame, advertising cards perforated in the margin to register with the open-



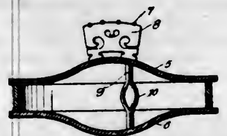
ings in said members, and flexible metal fasteners, insertible through the openings in said cards and members.

1,383,829. RESILIENT WHEEL. LOU EDGAR LEATHERS, Weed, Calif. Filed Apr. 29, 1919. Serial No. 293,452. 1 Claim. (Cl. 152—52.)



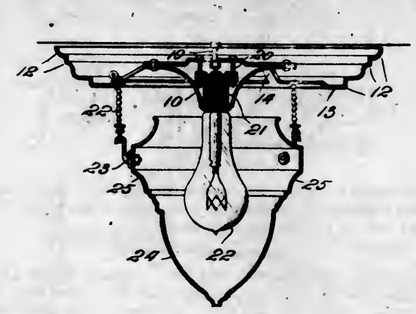
A resilient wheel having normally concentric hub and rim members, radial spokes secured at their inner ends to the hub member and fitted at their outer ends in openings in the rim member, said openings being extended longitudinal of the rim member to permit of the movement of the spoke relative thereto, and coiled springs respectively embracing said spokes and each spring being terminally secured rigidly to said hub and rim members for cushioning and yieldingly resisting the relative movements of the said hub and rim members in radial and circumferential directions in the plane of said members.

1,383,830. SOUND-POST. WILLIAM ELDON LEIGHTON, West Pembroke, Me. Filed May 5, 1920. Serial No. 379,041. 4 Claims. (Cl. 84—277.)



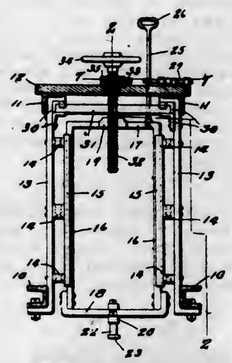
1. A sounding post, including a body portion formed with an unobstructed opening substantially intermediate its ends whereby said sounding post is rendered capable of a resilient action.

1,383,831. LIGHTING-FIXTURE. CHARLES R. LEIMECKE, St. Charles, Ill. Filed Aug. 22, 1919. Serial No. 319,086. 5 Claims. (Cl. 240—92.)



1. A semi-indirect lighting fixture comprising an upper member having formed thereon a centrally arranged depending reflector, the surface of which is curved, there being openings formed in said upper member around said reflector, a lamp secured to said upper member and disposed below the reflector, and a light diffusing bowl inclosing said source of light, said bowl having translucent upper and lower portions that are separated by a transparent portion.

1,383,832. LIFTING AND SWINGING SUPPORT FOR RAILWAY MOTOR-CARS. JOSEPH E. LOEFFLER, St. Louis, Mo. Filed Oct. 30, 1919. Serial No. 334,592. 4 Claims. (Cl. 254—87.)

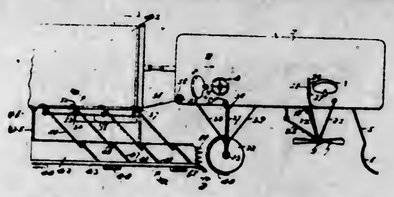


1. The combination of a car, a member arranged to slide vertically thereon, fixed guideways on the car for said member, a lifting member movably mounted on said car and normally out of operative relation to said vertically sliding member, and means for operating said lifting member when in engagement with said sliding member to raise said car.

1,383,833. CANE-HARVESTER. NORMAN K. LYMAN, San Francisco, Calif. Filed July 14, 1919. Serial No. 310,781. 4 Claims. (Cl. 56—63.)

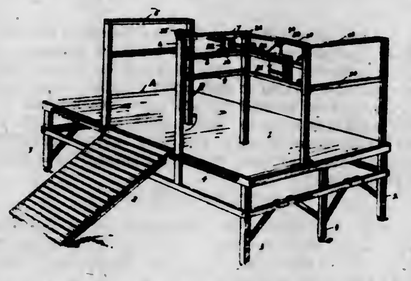
1. In a sugar cane harvester, a vehicle, a stalk topping mechanism carried by the vehicle on one side of the latter and adjacent said side, stalk severing means also carried by the vehicle but to the rear of the topping mechanism

and at a greater distance from the side of the vehicle than the topping mechanism, and means carried by the vehicle



for bending stalks over toward the latter to have their tops removed by the topping mechanism after which they may be cut by the severing means.

1,383,834. CHECKING DEVICE. GEORGE W. MCLEAN and EDWARD J. SHUA, New Orleans, La. Filed Nov. 22, 1919. Serial No. 339,793. 2 Claims. (Cl. 235—93.)



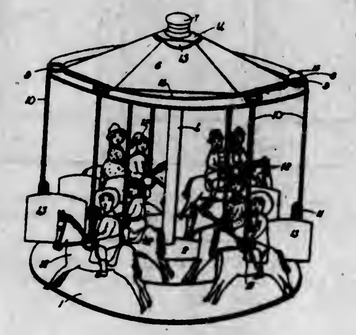
1. In a checking device, the combination of a revoluble member, pins adjacent the revoluble member, a checking arm having one end secured to the revoluble member, an arm secured to the revoluble member directly in rear of the checking arm, a register communicating with and actuable by movement of the arms; said arms being limited in their movements in one direction by the pins adjacent the revoluble member, and a spring clip so constructed and arranged with respect to the second arm that it limits the movement of the checking arm and second arm in another direction.

1,383,835. MOUNTING FOR REAMER-BLADES. ALBERT A. MARTELL, Woonsocket, R. I., assignor to The [illegible] Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed May 20, 1918. Serial No. 235,501. 9 Claims. (Cl. 77—75.5.)



1. In a device of the character described, a body member provided with blade holding slots the bases of said slots comprising portions of cylindrical concave surfaces, blades adapted to be mounted in said slots, means for moving said blades longitudinally of said body member, parallel inclined surfaces on the bases of said blades, in combination with segmental rocking supports having flat supporting surfaces for said blades and mounted within certain of said concave portions of the slots with the flat part of said rocking supports in contact with the inclined surfaces on said blades.

1,383,836. PAPER AND LIKE TOY. THOMAS MATHEWS, deceased, Leicester, England, by Annie Mathews, Leicester, and Harry Buckingham, London, England, administrators. Filed Nov. 26, 1920. Serial No. 426,610. 4 Claims. (Cl. 46—27.)



1. A toy roundabout comprising a circular canopy provided with a socketed knob at the apex thereof, a central support upon the upper end of which the socketed knob of the canopy rotatably fits, a base to maintain said support in an upright position, a flattened edge around the lower edge of the canopy, a series of cut out figures and devices, and rods adapted to detachably engage the aforesaid flattened edge and said figures and devices to suspend the latter from the canopy.

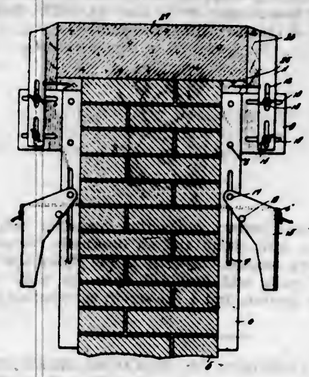
2. A toy roundabout comprising a circular canopy provided with a socketed knob at the apex thereof, a central support, a pin in the upper end of the latter upon which the socketed knob fits to permit rotation of the canopy, a base to maintain said support in an upright position, a flattened edge around the lower edge of the canopy, a series of cut out figures and devices, and wire rods adapted to detachably engage the aforesaid flattened edge and said figures and devices to support the latter from the canopy.

3. A toy roundabout comprising a circular canopy provided at its apex with a socketed knob, a central support upon the upper end of which said socketed knob rotatably fits, a base to maintain said support in an upright position, a flat annular ring on the lower edge of the canopy, a series of cut out figures and devices, and rods adapted to detachably engage both the interior and exterior edge of said ring and also engage the figures and devices for the purpose of suspending the latter from the canopy, substantially as described.

4. A toy roundabout comprising a circular conical canopy provided at its apex with a socketed knob and having around its lower edge a flat annular ring, a central support having in its upper end a pin upon which the socketed knob of the canopy rotatably fits, a base into which said support detachably fits and is maintained in an upright position, a series of cut out figures and devices, and a series of wire rods having at one end a coil adapted to fit detachably upon the interior and exterior edges of the annular ring and at the other end a coil adapted to fit detachably upon the figures and devices to support same from the canopy substantially as described.

1,383,837. MOLD-SUPPORT. JOHN J. MILNES, Jr., Port Richmond, N. Y. Filed July 16, 1920. Serial No. 396,691. 3 Claims. (Cl. 25—131.)

1. A support for capping molds comprising a plurality of standards adapted to be attached to a wall, means for securing said standards to said wall, plates projecting angularly from said standards and adapted to support the



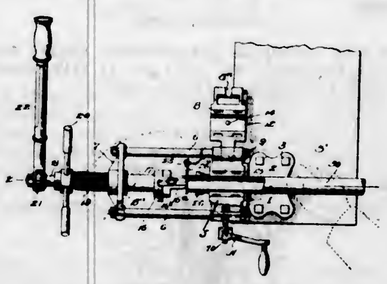
mold, and means carried by the plates for maintaining the mold in operative position.

1,383,838. CONTAINER. JOSEPH MRAZEK, New York, N. Y. Filed Sept. 16, 1920. Serial No. 410,774. 5 Claims. (Cl. 41—10.)



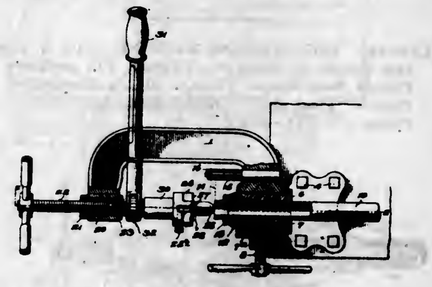
1. As a new article of manufacture, a container comprising an egg shell casing, and a receptacle located therein.

1,383,839. MACHINE FOR FLANGING SOFT-METAL PIPES. PHILIP MUELLER and ANTON C. SCHUERMANN, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Nov. 12, 1919. Serial No. 337,498. 12 Claims. (Cl. 453—81.)



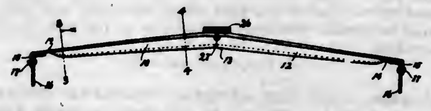
1. In a machine for flanging soft metal pipes, the combination of a frame provided with pipe holding jaws, a flanging tool supported by said frame at one side of said jaws, means for moving the tool toward and from the jaws, and means supported by the frame for coöperating with the end of the tube to be flanged and determining the extent of projection of the pipe from the jaws.

1,383,840. MACHINE FOR FLANGING SOFT-METAL PIPES. PHILIP MUELLER, ANTON C. SCHUERMANN, and ROBERT H. MUELLER, Decatur, Ill., assignors to Adolph Mueller, trustee, Decatur, Ill. Filed Dec. 1, 1919. Serial No. 341,835. 7 Claims. (Cl. 153—81.)



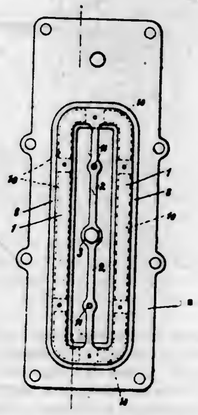
1. In a machine for flanging soft metal pipes, the combination of a frame provided with alined bores, pipe engaging bushings within one of said bores, a feeding screw movable through the other bore, and a flanging tool adapted to be supported on the end of said screw and in a pipe projecting from said bushings and to be moved by said screw, said tool being rotatable independently of any movement by the screw, and means for thus rotating the tool.

1,383,841. CARLINE. WILLIAM N. OEHM, Michigan City, Ind. Filed Aug. 12, 1919. Serial No. 317,004. 4 Claims. (Cl. 108—5.6.)



1. A carline for railway cars comprising a member channel-shaped in cross-section and having flanges adapted to contact with the car roof, the channel lying directly below the flanges and being deepest at the center of the carline and dying out near the end portions thereof, the flanges merging into said end portions.

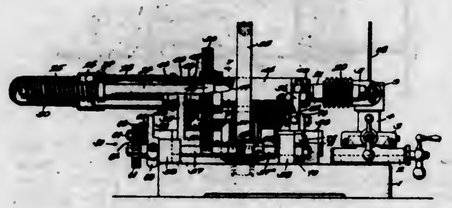
1,383,842. VALVE OF THE ANNULAR TYPE. OLOF OHLSSON, Södertelje, Sweden. Filed May 28, 1918. Serial No. 237,165. 1 Claim. (Cl. 251—119.)



A valve of the annular type comprising, an elongated disk having a central hub, yielding arms extending radially

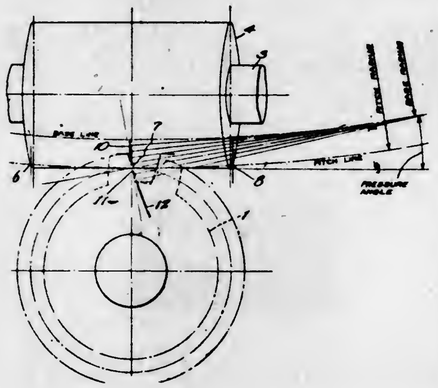
straight the greatest distance from said hub to and connecting with said disk, and means fixing the hub to the valve seat in order that the arms may force the valve disk against the said seat, said hub, disk and arms being formed integral and in the same plane.

1,383,843. HOB-GRINDING MACHINE. CARL G. OLSON and FRANK W. ENGLAND, Chicago, Ill., assignors to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Feb. 7, 1919. Serial No. 275,537. 12 Claims. (Cl. 51—225.)



1. A machine tool having a tool holder and a rocking frame, one of which oscillates about a fixed axis for producing relative movement between the tool and the work for producing relief in the work, means for rotating the work in the work holder, a rotating cam, a pivoted arm actuated by said cam, a rider carried by the aforesaid part which oscillates, for transmitting the movement of the arm to the part which oscillates, said rider being adjustable relatively to the axis of the part which oscillates.

1,383,844. HOB FOR CUTTING INVOLUTE GEARS. CARL G. OLSON, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Oct. 24, 1919. Serial No. 333,075. 4 Claims. (Cl. 29—103.)



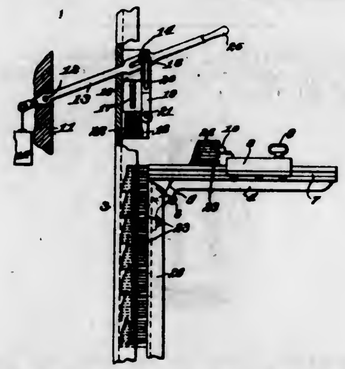
1. A hob having involute cutting teeth constructed on a base circle computed in the ordinary manner from a pitch circle which passes through the three following points, to wit, the two end points and the middle point of an elliptic arc formed by passing a plane through the pitch cylinder of the hob at an angle equal to the helix angle of the hob teeth.

1,383,845. STORAGE-BATTERY CONNECTOR. WILLIAM H. PALMER, Jr., Wyncote, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Mar. 28, 1917. Serial No. 157,908. 6 Claims. (Cl. 173—259.)



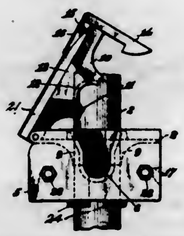
1. A storage battery conducting connector comprising a pillar-post split clamp and an internally reversely tapered opening ranging crosswise of the clamp and having faced end walls and provided upon its body with a tapped face portion, and a cap-screw, substantially as described.

1,383,846. METHOD OF BUILDING HEEL-BLANKS. DENNIS PARKS, St. Louis, Mo. Filed Dec. 12, 1919. Serial No. 344,287. 6 Claims. (Cl. 12—147.)



1. The method of building decked heel-blanks, which comprises assembling the lifts in the proper order to gage height upon an inclined support to form a heel-blank having an inclined base, moving said heel-blank bodily to a position above the log holder and forcing it therein, while preserving the relative angularity of the lifts thereof, and maintaining a plurality of heel blanks so formed in separated relation and column formation in said holder.

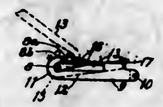
1,383,847. VEHICLE ATTACHMENT. GEORGE BEN. PERKINS, Farmington, Mo. Filed Mar. 11, 1919. Serial No. 281,017. 7 Claims. (Cl. 208—45.)



1. An attaching means for side carriers of vehicles, comprising a plate having an undercut socket opening laterally

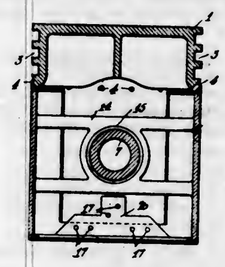
through the plate and also opening edgewise through the plate, the openings being proportioned for permitting only edgewise access to the socket by a headed shaft, the plate being formed with a groove in its edge communicating with the socket and lateral opening, and a closure for the lateral opening adapted to be moved into and out of the groove.

1,383,848. FASTENING-CLASP FOR JEWELRY. EDWARD W. PETERSON, St. Paul, Minn. Filed Nov. 16, 1920. Serial No. 424,489. 3 Claims. (Cl. 24—233.)



1. The combination with a wrist watch and its wrist band, of means for detachably securing said two parts together, said means comprising a wire loop or similar contrivance fixed on one of the parts, an elongated body pivotally attached to the other part and having at one end a bifurcated hook adapted to engage in the wire loop and two spaced spring arms on the body arranged to close with their ends the opening of the hook, said body having a groove between the two springs, a lever normally resting in said groove and having a hook coinciding with and pivoted between the members of the bifurcated hook close to the points thereof so as to enable it to eject the wire loop from all the hook members by a swinging movement of the lever.

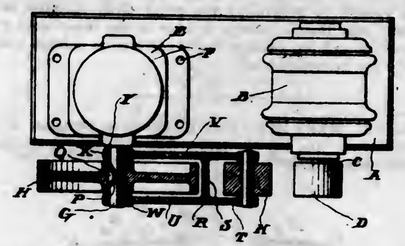
1,383,849. PISTON. HOWARD W. PIERCE, Butte, Mont. Filed Sept. 11, 1920. Serial No. 409,615. 5 Claims. (Cl. 74—108.)



1. A piston of the character described composed of aluminum and iron sections, the aluminum sections having alined openings in the walls thereof, a pin located in the piston and in alinement with said openings, and a bridge fixed to the iron section and supporting an intermediate portion of the pin, whereby the side or connecting rod thrust of the piston is sustained by said iron section.

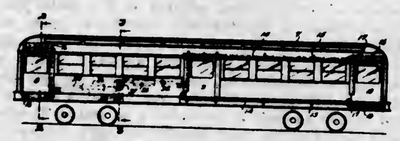
1,383,850. BELT-DRIVE. CLAUDE PITTS, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 30, 1920. Serial No. 406,926. 4 Claims. (Cl. 64—5.)

1. A short belt drive, comprising a driven shaft, a pulley adapted to be keyed to said shaft, and an idler pulley frame having arms provided with bearing portions, the bore of one bearing portion being sufficiently larger than the other to pass over a key in the driven shaft, whereby the idler pulley frame with the pulley arranged



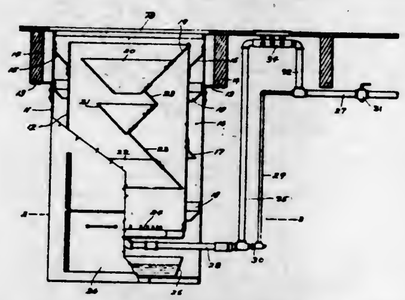
between the arms thereof, may be assembled on the driven shaft after the said key has been inserted in the shaft.

1,383,851. DOOR-OPERATING MECHANISM. JESSE M. POMBO, New York, N. Y. Filed Feb. 17, 1920. Serial No. 359,453. 4 Claims. (Cl. 268—7.)



1. A door-operating mechanism comprising, a door of the sliding type confined in guide tracks, said guide tracks having a notch made therein, a lock arm pivoted on the door adapted to engage the notch of the guide track, a link depending from the lock arm, a draw bar related with the link to push the link up to engage the lock arm with the notch and to pull the link down to disengage the lock arm from the notch, and a gear rack connected with the draw bar to operate the link and open the door.

1,383,852. FLOOR-FURNACE. ALFRED P. POST, Philadelphia, Pa. Filed July 17, 1919. Serial No. 311,643. 3 Claims. (Cl. 126—116.)



1. In apparatus of the character stated, the combination of a permanently open register, a furnace having an outer shell the bottom and side walls of which are permanently closed to the admission of air other than from a room being heated, the open top of which shell is in direct communication with a room being heated through said register, an inner shell open at its top and bottom and located within the outer shell and spaced from the bottom and side walls thereof, a burner by means of which gaseous fuel is consumed without the premixture of air said burner being located adjacent the lower part of said inner shell and piped connections for delivering gaseous

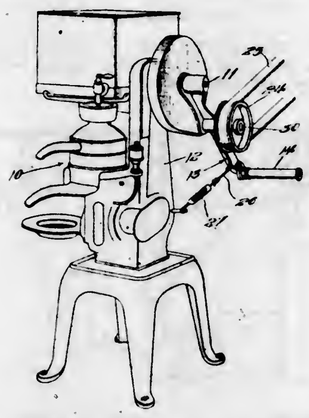
fuel to said burner, whereby all air as heated by said burner is caused to pass to a room being heated to start a circulation of air which air at room temperature is then caused to return to the outer shell through said register and thence caused to pass to the inner shell for re-heating and for passage in its entirety to a room being heated for re-circulation.

1,383,853. MESS KIT. GUY H. PRESTON, Douglas, Ariz. Filed Nov. 10, 1919. Serial No. 336,975. 2 Claims. (Cl. 206—4.)



1. A mess kit comprising an annular canteen provided with a central perforation having substantially cylindrical walls, a curved bottom adapted to fit a metal pan of standard shape, a substantially cylindrical outer wall, and a substantially flat top, with a neck projecting from said cylindrical portion, and a cap normally closing said neck, with a substantially cylindrical cup adapted to fit snugly in said central portion, and provided with a resilient handle adapted to lie radially on and to fit snugly against said top, the said handle having a downwardly projecting laterally curved arm adapted to be sprung over and engage the cylindrical outer wall of the canteen and to hold said cup against accidental displacement when the parts are assembled, substantially as described.

1,383,854. DRIVE FOR CREAM-SEPARATORS. WALTER E. RATHBUN, Milan, Ill. Filed May 7, 1920. Serial No. 379,553. 5 Claims. (Cl. 74—7.)



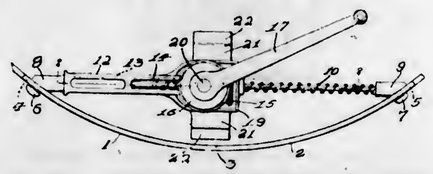
1. The combination with the operating mechanism of a cream separator including an operating shaft, of a main gear drivingly connected to said shaft, a crank arm pivotally mounted with respect to the shaft, a pinion shaft journaled in the crank arm, a pinion on the pinion shaft drivingly engaging the main gear, a collar drivingly secured to the pinion shaft, a pulley journaled on the pinion shaft adjacent to one face of the collar, a ratchet and pin connection between the pulley and collar permitting the pinion shaft and collar to run ahead of the pulley but insuring a driving connection from the pulley to the pinion shaft when the pulley tends to run ahead of the pinion shaft, and a pin and ratchet connection between the other face of the collar and the crank arm permitting the collar and pinion shaft to run ahead of the crank arm, but preventing a retrogressive movement between these parts, substantially as described.

1,383,855. SHIRT. HENRI H. REINEQUE, Los Angeles, Calif. Filed Aug. 14, 1919. Serial No. 317,543. 1 Claim. (Cl. 2—89.)



A shirt comprising a body having a permanent bosom, the shirt having a front opening and fastening means for said front opening, cuffless sleeves associated with the body portion, detachable cuffs adapted to be associated with the sleeves and each having an extension flap adapted to be received within the opening of the sleeve, fastening means arranged on the inner side of the sleeve and cooperating with the extension flap, and a detachable plait adapted to be arranged along the front opening of the shirt and being releasably secured in position thereon by the fastening means of said front opening.

1,383,856. AUTOMOBILE DEMOUNTABLE-RIM TOOL. OLIVER M. RICE, Birmingham, Ala. Filed Mar. 6, 1920. Serial No. 363,894. 2 Claims. (Cl. 157—1.)



1. A tool of the character described comprising a frame having a smooth bore therein and a groove extending longitudinally with said bore, a threaded shaft slidably fitted in said smooth bore and having a projection entering said groove to prevent relative rotation between the shaft and frame, heads carried by the outer ends of said frame and shaft, parts on said heads adapted to engage with a demountable rim, a housing extending about one portion of said frame and having an end wall disposed close to said threaded shaft, a sleeve forming a continuation of said frame closely embracing the threaded shaft and spaced from said end wall, a pinion having spiral interior threads engaged with the threads on said threaded shaft, said pinion disposed between the end of said sleeve and said wall, a stud projecting from said frame at right angles to said threaded shaft, a beveled gear wheel on said stud meshing with said pinion, means engageable over said stud and having connection with said gear wheel to rotate the latter, and a pair of feet diverging in opposite directions and provided with angularly disposed toes for supporting the frame and housing, said feet being formed on said frame and housing, substantially as described.

1,383,857. MOLD FOR MAKING HEELS, LIFTS, SOLES, OR OTHER ARTICLES FROM RUBBER OR OTHER MATERIAL. HARRY CHARLES RIDOUT, Bournemouth, England. Filed Mar. 5, 1920. Serial No. 363,368. 1 Claim. (Cl. 18—42.)



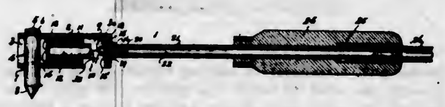
A divisible mold for forming resilient heels or the like, said mold comprising separable members having recesses formed therein produced by stamping from two separate pieces of sheet metal, said depressions forming the matrix proper, said members having laterally projecting flanges, one of said members being provided with a number of steps and a centrally placed concave part having domed projections thereon, the other member having a centrally placed convex part surrounded by a concave portion, washer-locating-pegs rising from said convex and concave parts, apertures formed in one of said flanges and pegs on the other flange adapted to register with said apertures whereby said members are properly positioned.

1,383,858. BUMPING-POST. ALEXANDER ROBERTSON, Granite City, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed June 23, 1917. Serial No. 176,456. 5 Claims. (Cl. 104—254.)



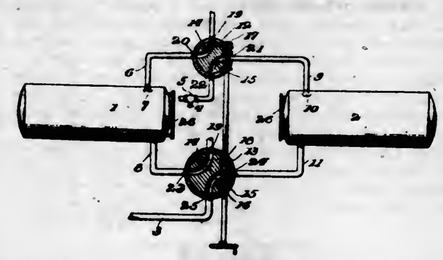
1. The combination of an upwardly inclined section of the track and a bumper mounted on said section comprising a series of upwardly extending projections having tread surfaces, said projections extending above said track to a substantially uniform height.

1,383,859. GAS-HEATED SOLDERING-TOOL. KARL ROLLE and JOSEPH F. HEINE, Newark, N. J. Filed Sept. 4, 1920. Serial No. 408,208. 4 Claims. (Cl. 158—26.)



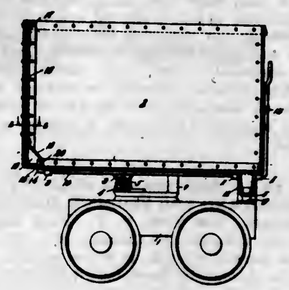
1. In a device of the kind described a carrier member provided with a combustion chamber at its outer end, a soldering iron fixed to extend through and project from said combustion chamber, a tubular member connected with the rear end of said carrier member provided with a gas passage, a handle on the free end of said tubular member, means for connecting said gas passage with a source of gas supply, said carrier member having an air induction chamber at its rear end, a gas discharge jet connected with said gas passage to enter said air induction chamber, and means for receiving and intermixing gas and air prior to delivery into said combustion chamber located intermediate said air induction chamber and said combustion chamber.

1,383,860. COMPRESSOR. ADOLF ROSZKOWSKI, New York, N. Y. Filed Feb. 9, 1920. Serial No. 357,485. 6 Claims. (Cl. 137—79.)



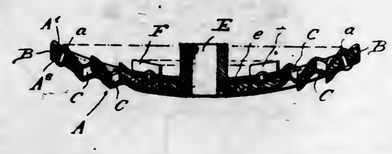
1. An air compressor for water systems using compressed air as a motive power, comprising two tanks, arranged to have a water head from the system, and means for simultaneously connecting one tank with such water head and compressed air service of such system and the other tank with the atmosphere.

1,383,861. DUMP-CAR LATCH. WILLIAM J. RUNDLE, Meaderville, Mont. Filed July 12, 1920. Serial No. 395,475. 5 Claims. (Cl. 105—274.)



1. The combination with a dump car comprising a truck, a body pivoted on the truck, and a hinged door on the body, of a crank shaft located under the body, a crank lever controlling the position of said shaft, said body having an opening in the bottom thereof, and a crank finger on the crank shaft projecting through said opening and locking said door in closed position.

1,383,862. COMPOSITE SPRAY-PLATE. JOHN SCHEMINGER, Jr., Providence, R. I. Filed Dec. 8, 1919. Serial No. 343,342. 5 Claims. (Cl. 158—28.)



1. A composite spray plate for rotary oil burners comprising a plurality of disks having circular series of openings therethrough of oval shaped form arranged to effect the passage of fluid therethrough substantially in the plane of the disk, and a sheet of asbestos or similar reinforcing and heat-resisting material between said disks having oblong openings therein which register with the openings through the disks.

1,383,863. METHOD OF MAKING BIFOCAL LENSES. HENRY A. SCHEUERLE, Philadelphia, Pa.; Marie E. Scheuerle executrix of said Henry A. Scheuerle, deceased. Filed Mar. 18, 1914. Serial No. 825,604. 6 Claims. (Cl. 51—278.)

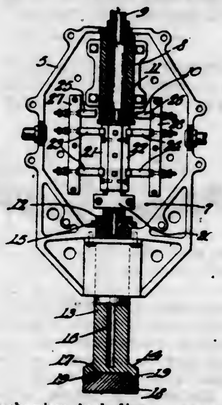


1. The method of making bifocal lenses which consists in rotating the blank to be abraded, with the minor area at the axial region thereof and the major area at the distal region thereof, while rotating abrading means contiguous to said major area in an annulus encircling the axis of rotation of said blank but eccentric to that axis; and preventing any change in the direction of the respective axes during the abrading operation; and thereby preventing abrasion of the axial, minor region of said blank while circularly abrading an annular, major region of said blank concentric with the axis of rotation of said blank but eccentric to the axis of rotation of the abrading means.

1,383,864. PROCESS FOR SOLIDIFYING CHINA-WOOD OIL AND THE PRODUCT THEREOF. BENJAMIN SCOBEL, New York, N. Y. Filed Mar. 23, 1918. Serial No. 224,247. 15 Claims. (Cl. 106—23.)

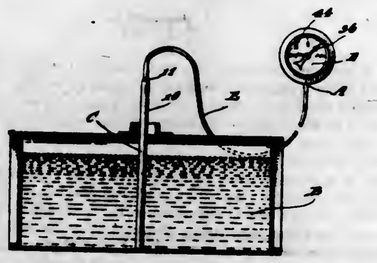
1. That process wherein an active metallic halogen derivative is thoroughly disseminated through China wood oil.

1,383,865. SHOE. ARCHIBALD G. SHAVER, Chicago, Ill., assignor to Casale Safety Device Company, New York, N. Y., a Corporation of New York. Filed Apr. 25, 1919. Serial No. 292,546. Renewed Dec. 6, 1920. Serial No. 428,771. 6 Claims. (Cl. 246—190.)



4. A shoe mechanism including a support, an air supplied chamber carried thereby, a tubular plunger mounted in said chamber for vertical movement, said plunger being sealed at its lower end, and carrying the shoe, a fixed electrical contact carried by the tubular member, and oppositely disposed electrical contacts carried by the support for coöperating with the movable contact member, said contact members being in electrical engagement when the shoe is in its lowermost position and being out of engagement should the shoe be held in uppermost or abnormal position.

1,383,866. LIQUID-GAGE. JAMES SHEPHARD, Detroit, Mich. Filed June 15, 1920. Serial No. 389,160. 7 Claims. (Cl. 73—54.)



1. In a liquid gage, an air containing member arranged to permit the entrance of liquid into the lower end thereof, a pneumatically operated indicating member including an air tight casing, a dial plate, a movable pointer, a rotatable shaft carrying the pointer, a diaphragm arranged in the casing and operating means for said shaft engaging said diaphragm, and means connecting the cylinder with the air tight casing.

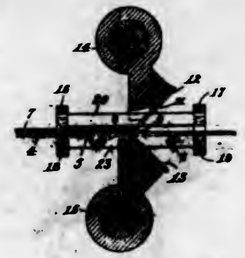
1,383,867. TOILET-ARTICLE PACKAGE. ABNER SIRIS, Brooklyn, N. Y. Filed Apr. 2, 1921. Serial No. 457,917. 1 Claim. (Cl. 206—46.)



A toilet article package comprising in combination a powder puff, a transparent envelop inclosing said puff and through one wall of which the powder puff may be inspected, the other wall of said envelop having a hole of any desired shape, and a printed or pictorially ornamented insert interposed between the hole and the powder puff to protect the puff, to maintain the envelop in substantially extended form, and to present through the hole an unobstructed view of printed or pictorial matter on its exposed surface.

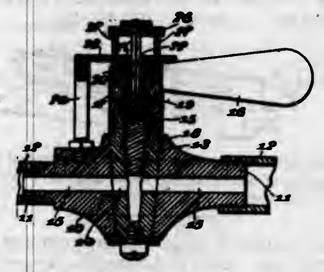
1,383,868. CUTTING MECHANISM. CHARLES F. SMITH, Watertown, N. Y., assignor to Howland Bag and Paper Company, Dexter, N. Y., a Corporation of New York. Filed July 5, 1918. Serial No. 243,287. 9 Claims. (Cl. 164—68.)

1. In a cutting mechanism for moving sheet material the combination of a fixed cutting member and a movable cutting member, and a guide rail extending in the direction of travel of the sheet material and having a



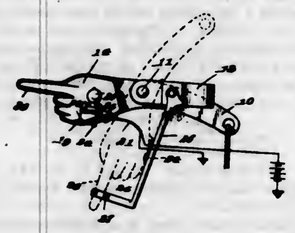
portion of said rail lying within the field of coaction of said cutters.

1,383,869. VALVE AND LOCKING DEVICE THEREFOR. WILLIAM T. SMITH, Philadelphia, Pa., assignor of one-half to William R. Thomas, Philadelphia, Pa. Filed Sept. 27, 1920. Serial No. 412,940. 4 Claims. (Cl. 277—25.)



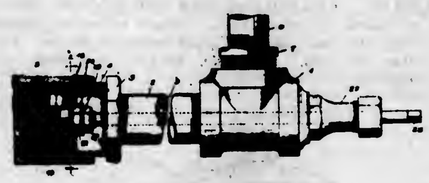
1. A device of the character described comprising a body provided with passages and forming a socket, a rotary main valve provided with a cross passage and disposed in said socket to have its passage brought into or out of registration with the passages of the body, a supplementary valve movably disposed within the main valve to intercept the passage thereof, a handle for the main valve to actuate the same, said handle including a head, a stem on the supplementary valve and passing upwardly through the handle, a spring for actuating the supplementary valve, a slotted plate, and retaining pins carried on the stem of the supplementary valve to be moved when the handle is actuated to bring the retaining pins into or out of line with the slots in the said plate.

1,383,870. AUTOMOBILE-SIGNAL. JOHN ARTHUR Southwell, Scranton, Pa. Filed Jan. 13, 1920. Serial No. 351,186. 1 Claim. (Cl. 177—329.)



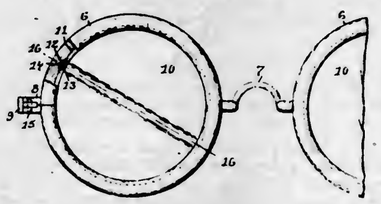
A signaling device comprising a supporting member clamped upon the wind shield of a vehicle, a signal arm pivoted upon said support and having one end formed hollow and transparent and shaped to represent a human hand, an incandescent bulb within the hollow portion of the arm, a contact secured at the lower edge of the hollow portion of the arm, a leaf-spring located within said hollow portion and having one end connected with one terminal of the lamp and having its other end engageable with said contact, a source of current connected in circuit with said contact and with the lamp and spring, said spring engaging said contact to complete the circuit when the arm is in signaling position, an inclined arm depending from said support and serving as a stop for the signal arm when the latter is in inoperative position, and a plunger slidable through the lower side of said hollow portion and engageable with said spring whereby to disengage the latter from said contact when the plunger engages said inclined arm.

1,383,871. VALVE. ELMER H. SPENCER, Nederland, Tex., assignor of one-fourth to A. C. Block, Port Neches, Tex., and one-fourth to Crook, Lord & Lawhon, a Law Firm composed of W. M. Crook, C. A. Lord, and I. W. Lawhon, Beaumont, Tex. Filed Mar. 15, 1920. Serial No. 365,919. 10 Claims. (Cl. 251—84.)



1. A valve of the class described comprising a casing, a valve seat therein having a port and a hole for a valve stem, a valve stem rotatable in said hole, a valve body connected to said stem, and an adjustable abutment adapted to be secured to the stem on either side of said valve body.

1,383,872. OPHTHALMIC MOUNTING. FREDERICK ARTHUR STEVENS, Providence, R. I., assignor to Stevens and Company, Incorporated, Providence, R. I., a Corporation of Rhode Island. Filed Oct. 3, 1919. Serial No. 328,102. 2 Claims. (Cl. 88—47.)



1. An ophthalmic mounting comprising a circular rim, a circular lens in the rim, and ground on its surface to correct visual defects of the eye, and compressible means, intermediate the rim and the lens, for locking the lens within the rim on a line with the axis of the lens.

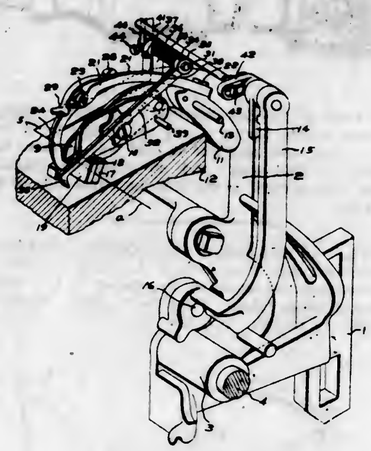
1,383,873. HIDE-CLEANING TOOL. ROBERT J. STINE, Eagle Grove, Iowa. Filed Jan. 2, 1920. Serial No. 349,080. 1 Claim. (Cl. 149—8.)

In a hide cleaning tool, a handle having a plate at one end extending downwardly from the handle and provided at its lower edge with a series of fingers inclined down-

wardly and toward the handle end of the tool, said fingers having relatively thin but not sharp edges, said handle being provided at the upper part of said plate with a downwardly opening receiving channel, providing a receiving member for a blade, a blade having its upper edge received in said channel and projecting downwardly and terminating above said fingers, said blade being beveled at its lower edge on its side away from the fingers for providing a sharp edge adjacent to the fingers, a bolt extended through said plate and blade, and a nut on said bolt.



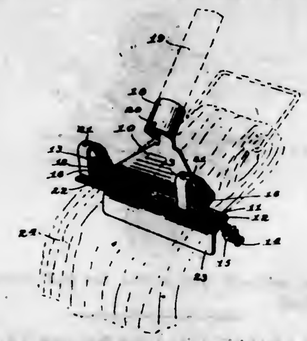
1,383,874. FILLING-CATCHER FOR LOOMS. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed May 27, 1920. Serial No. 384,611. 9 Claims. (Cl. 139—85.)



1. In a filling replenishing loom, the combination of a shuttle feeler, a thread parter and clamp mounted on the shuttle feeler, a thread catcher mounted on the shuttle feeler to engage the filling between the cloth selvage and clamp, means for raising the thread catcher as the shuttle feeler and thread catcher move to rearward position, and means for lowering the thread catcher to engage and bear upon the filling between the cloth selvage and clamp as the shuttle feeler returns to front position and to impart a further lowering movement to the thread catcher to remove the end of the filling when it is parted at the cloth selvage.

1,383,875. MOP. GILBERT P. STRELINGER, New York, N. Y. Filed June 29, 1920. Serial No. 392,810. 3 Claims. (Cl. 15—56.)

1. In a mop holder, two clamping members of sheet metal, one of said members being formed with a handle engaging portion, spring means for yieldingly maintaining said members in closed relation, and strips struck from the material of one of said members and bent over to provide guards for said spring means.

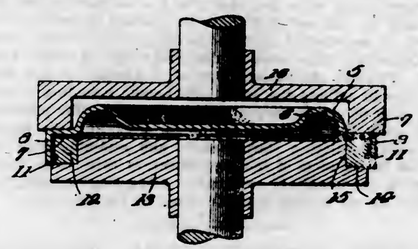


1,383,876. GOLF-PRACTICING MEANS. PAUL C. SULLIVAN, Fairmont, W. Va. Filed Jan. 12, 1920. Serial No. 350,890. 11 Claims. (Cl. 35—12.)



1. Golf practicing means wherein is employed a support and a series of alined stroke indicating elements yieldably mounted thereon.

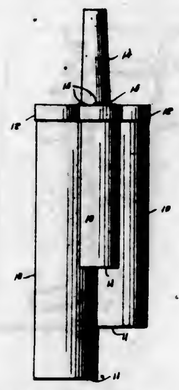
1,383,877. METHOD OF FORMING CLOSURES FOR RECEPTACLES. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed Sept. 6, 1919. Serial No. 322,041. 7 Claims. (Cl. 113—80.)



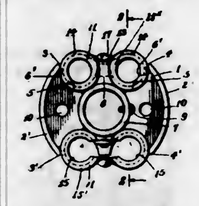
1. The method of forming a closure for receptacles comprising shaping said closure and forming a gasket seat thereon, forming a vulcanized rubber ring gasket, applying a relatively thin coating of adhesive rubber cement to the seat on said cap portion, placing said preformed gasket thereon, and applying pressure to the gasket for causing said adhesive rubber cement to firmly adhere both to the gasket and the closure for securing the gasket to said closure.

1,383,878. TOY WHISTLE. JAMES C. TAYLOR, Dayton, Ohio. Filed Aug. 25, 1920. Serial No. 405,825. 3 Claims. (Cl. 46—46.)

1. A toy whistle consisting of a plurality of sounding tubes provided at one end with heads arranged in flush relation and having a series of openings communicating respectively with the interiors of the tubes, and a mouth piece or tube arranged in substantially concentric relation with the series of openings and provided adjacent to the plane of said head with outlet slits for directing currents of air transversely with relation to the openings therein.

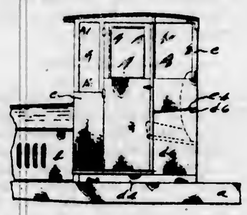


1,383,879. OUTLET-BOX. GEORGE C. THOMAS, Jr., Elizabeth, N. J., assignor to The Thomas & Betts Co., Elizabeth, N. J., a Corporation of New Jersey. Filed Nov. 21, 1919. Serial No. 339,576. 9 Claims. (Cl. 247—25.)



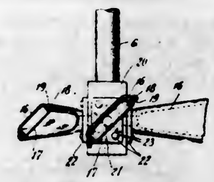
1. In an outlet box, the combination of a box member having a base and a peripheral wall, said wall being curved inwardly of the member, for a sufficient distance to enable its outside surface to serve as a seat for an electrical conduit, a clamp suitably curved to press against the outer surface of the conduit, and means for securing said clamp to said box member and clamping the conduit in position, comprising a screw extending downwardly and inwardly at an angle from the upper portion of said clamp into said member.

1,383,880. AUTOMOBILE CONSTRUCTION. HORACE T. THOMAS, Lansing, Mich. Filed Feb. 25, 1921. Serial No. 447,813. 4 Claims. (Cl. 296—103.)



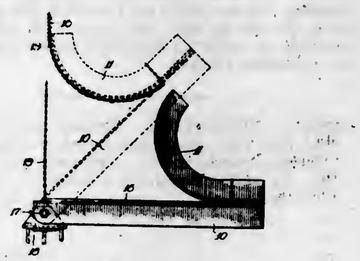
1. In a vehicle, the combination of a chassis, a seat construction forming an integral unit adapted to be removably secured to said chassis, a top construction forming an integral unit adapted to be secured to said chassis and said seat construction in place upon the chassis.

1,383,881. FLOTATION APPARATUS. JOSEPH INGRAM THOMAS, Garfield, Utah. Filed Mar. 25, 1919. Serial No. 284,922. 6 Claims. (Cl. 261—87.)



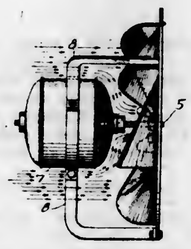
1. A flotation apparatus comprising in combination a container and a gaseous fluid distributer relatively rotatable with respect to each other, said distributer being arranged within said container and comprising a hollow blade-like body having a porous medium forming a substantially plane wall thereof for permitting the escape therefrom of gaseous fluid in a finely disseminated state, said hollow blade-like body being so disposed that the escape of gaseous fluid from the interior thereof through said porous medium exerts an impelling action tending to effect relative rotation between said container and said distributer, and means for supplying gaseous fluid to the interior of said body.

1,383,882. DEVICE FOR BENDING PLATES. HAROLD G. TREGILLUS, Barrington, Ill. Filed Mar. 10, 1919. Serial No. 281,750. 7 Claims. (Cl. 153—32.)



1. A plate bending device comprising in combination a support member, a plate carrying member pivotally secured thereto, a form member associated therewith, and chains extending around the plate and adapted to pull the plate around the form member.

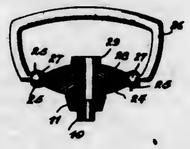
1,383,883. SELF-COOLED MOTOR. JOSEPH EUGENE TRUITT and EMIL ACKERMAN, Chicago, Ill. Filed June 16, 1919. Serial No. 304,535. 3 Claims. (Cl. 230—1.)



1. In combination with a motor, a propeller fan secured to the motor shaft, and a plurality of vanes secured to

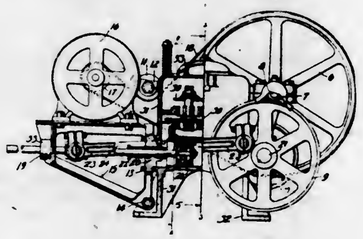
certain of the fan blades and projecting over adjacent blades for diverting air currents passing into said fan to the motor casing for cooling the same.

1,383,884. WATCH-PENDANT. LOUIS E. F. WACHTER, New York, N. Y., assignor to Star Watch Case Co., Ludington, Mich. Filed Aug. 3, 1920. Serial No. 401,044. 1 Claim. (Cl. 58—96.)



A watch pendant, comprising, in combination, a body portion having a plane upper surface and comprising semi-spherical bearing projections extending diametrically from the main portion thereof, said projections each having a substantially semi-spherical depression in its plane surface, a cylindrical portion extending above said plane surface, a removable body portion having a plane surface adapted to fit on said first named surface, and bearing projections and depressions to register with the first named bearing projections and depressions, said removable portion fitting over said cylindrical portion and a cylindrical retaining ring secured to the projecting end of said cylindrical portion to hold the pendant in assembly, and providing an outwardly cylindrical surface standing above the assembled pendant.

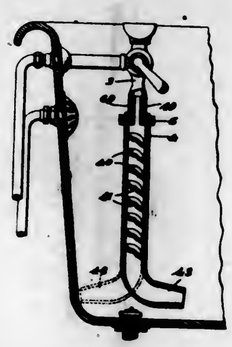
1,383,885. POWER-PUMP. THOMAS DESMOND WEAVER, Mansfield, Ohio, assignor to Humphryes Manufacturing Company, Mansfield, Ohio, a Corporation of Ohio. Filed Dec. 13, 1920. Serial No. 430,200. 4 Claims. (Cl. 103—79.)



1. A power pump having a plunger cylinder, a water intake or vacuum chamber, a suction valve chamber, a suction valve seat formed with a water valve opening and with an air valve opening, an air intake connected with said air opening, a discharge valve chamber, a plunger, a discharge valve, and a suction valve to open and close both said water and air valve openings simultaneously.

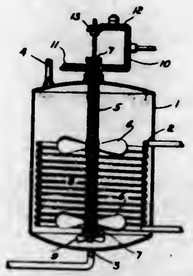
1,383,886. WATER-SILENCER. JEAN F. WEBB, Sr., New York, N. Y. Filed Sept. 25, 1919. Serial No. 326,169. 1 Claim. (Cl. 137—111.)

As a new article, a water silencer, comprising a tubular member having means, at one end, for connecting it, fluid tight, to a faucet outlet, the outlet end of the tubular member being shaped to direct the outflow at an angle to



the direction of the inflow thereto, the said tubular member having integral internal barriers for retarding the direct flow and force of the water therethrough.

1,383,887. OIL-HARDENING PROCESS. ALFRED A. WELLS, Montclair, N. J. Filed Jan. 11, 1918. Serial No. 211,338. 2 Claims. (Cl. 87—12.)

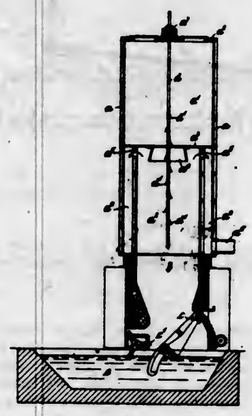


1. The process of hardening animal and vegetable oils, which comprises passing a stream of hydrogen from beneath into a body of the oil containing finely-divided nickel, violently stirring the oil at the point of entry of the hydrogen stream, whereby the hydrogen is disseminated in the form of fine globules throughout the oil, giving the oil a relatively slow swirling motion throughout its entire body, while the hydrogen globules are moving upwardly through said body of oil.

1,383,888. PROCESS AND APPARATUS FOR CARBONIZING WOOD AND OTHER CARBONACEOUS MATERIAL. JOHN FREDERICK WELLS, Cairo, Egypt. Filed Dec. 16, 1919. Serial No. 345,411. 1 Claim. (Cl. 202—2.)

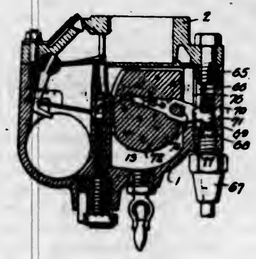
The continuous process for carbonising wood, vegetable, peat, coal, lignite and other carbonaceous material, consisting in charging a vertical chamber with the material to be treated, effecting combustion of the gases or volatile products at the bottom of the chamber by the admission of air below the grate, and withdrawing the carbonised material from the bottom of the chamber substantially at the moment when the last portion of the volatile constituents is being consumed; the material withdrawn

being replaced by a portion of the descending fuel from which the lighter volatile constituents have been driven



off by the heat from the combustion of the gases or volatile products rising from the bottom of the chamber, substantially as set forth.

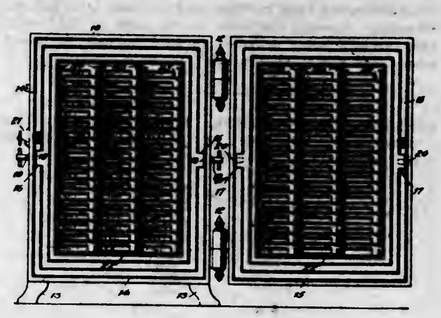
1,383,889. CARBURETER. RICHARD WENDELKEN, New York, N. Y., assignor to Julius Winter, New York, N. Y. Original application filed Aug. 12, 1918, Serial No. 249,534. Divided and this application filed June 22, 1920. Serial No. 390,740. 2 Claims. (Cl. 137—104.)



1. A carbureter having a fuel chamber provided with an extension and a slot establishing communication between said chamber and extension, said extension having a fuel inlet connection terminating in a valve seat, a valve operating in said extension with relation to said seat, a float located in said fuel chamber, a lever connected to said float and to said valve, one of the side walls of said slot having a recess, and a bar fitted in said recess and having a pin extending across said slot and upon which said lever is pivoted.

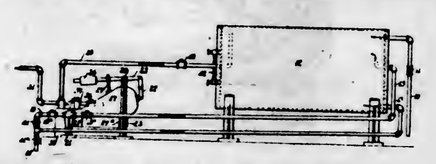
1,383,890. ACCOUNT-REGISTER. SILAS N. WHEELER, Omaha, Nebr. Filed Mar. 10, 1917. Serial No. 153,971. 1 Claim. (Cl. 45—2.)

In an account register the combination with a series of account-slip trays each comprising a bottom having the edges thereof bent upwardly to form retaining walls at its sides and ends, and a cut-away portion angularly crossing said bottom its adjacent side and end walls at the



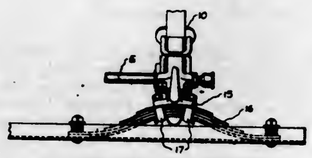
front corner of the tray whereby its contents may be inspected without removal from the tray.

1,383,891. WATER-FEED FOR STEAM-BOILERS. WILLIAM ALBERT WHITMORE, Nelsonville, Ohio. Filed Sept. 2, 1919. Serial No. 321,039. 1 Claim. (Cl. 137—101.)



A water feed apparatus for steam boilers, including a steam trap, a receiver adapted to contain water and having an outlet independent of the steam trap and adapted to be connected with the steam boiler for the direct feed of the water from the receiver to the boiler, a supply connection between the receiver and trap to direct water to the trap from the receiver, and means controlled by the operation of the trap to direct steam to the receiver from the boiler to balance the pressure of the receiver and cause the discharge of water to the boiler from the receiver, together with means independent of the receiver to connect the trap with the boiler and deliver water to the boiler from the trap without passing it through the receiver.

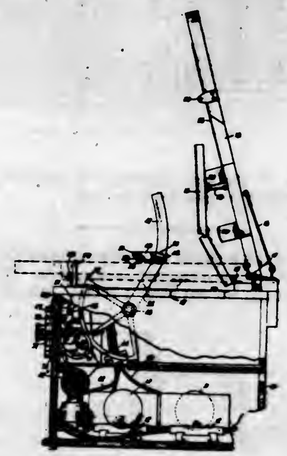
1,383,892. MOTOR-CAR BUMPER. FRANK A. WHITTEN, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Oct. 25, 1919. Serial No. 333,182. 7 Claims. (Cl. 293—55.)



6. In an automobile bumper and in combination with a side frame member having a depending curved portion at its end, a bracket having a seat shaped to correspond with the end portion of said frame members; U-shaped stirrups extending about said end portion to thereby secure said bracket in place upon the end of said side frame member; a spring support carried by said bracket; a horizontally disposed leaf spring the middle portion of which is secured

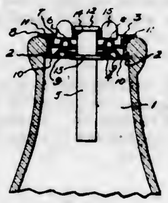
to said spring support, and the end portions of which are provided each with a hole; a horizontally disposed bumper bar of channel form in cross section; and securing bolts extending through the holes in the ends of said spring and through holes provided in said bumper to thereby secure said bar to said spring.

1,383,893. TIME CONTROL. JACK L. WINKLER, Hempstead, N. Y. Filed Nov. 23, 1920. Serial No. 426,050. 15 Claims. (Cl. 161—26.)



1. In combination with a housing, and door movably associated therewith, of means for automatically opening said door after the lapse of an interval of time, and automatic means for actuating a source of illumination within said housing only while the door is in closed position.

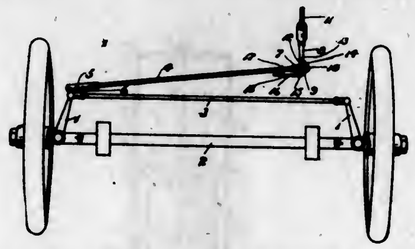
1,383,894. MILK-STERILIZING JAR-CLOSURE. HANS J. WINTHERLICH, Omaha, Nebr., assignor of one-half to Richard H. Larson, Omaha, Nebr. Filed July 30, 1920. Serial No. 399,977. 3 Claims. (Cl. 215—53.)



2. A jar closure comprising a central socket member closed at its lower end and open at its upper end, sealing members associated with and surrounding the socket member, and a locking member mounted on and capable of being turned about the socket member to adjust the sealing members.

1,383,895. STEERING-ROD SHOCK-ABSORBING AND ANTIRATTLING DEVICE. FLOYD GRANT WITHROW, Grand Rapids, Mich. Filed May 3, 1920. Serial No. 378,367. 2 Claims. (Cl. 280—96.)

1. In combination, a steering arm, a connecting rod attached at the end thereof and located substantially at right angles thereto, and a wire device having a central U-shaped portion passing around the arm, the legs of the U lying at opposite sides of the steering arm, thence over the connection of the arm to the rod and back under

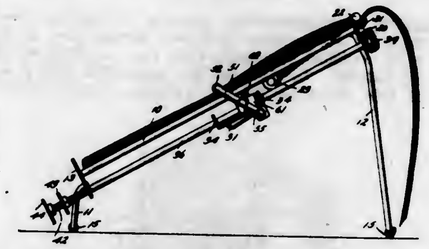


the rod, said device having two end portions connected together detachably and to the rod, substantially as described.

1,383,896. OINTMENT. JOHN WOOD, Pembroke, Va., assignor to R. H. Chitwood, Pembroke, Va. Filed Sept. 1, 1920. Serial No. 407,319. 2 Claims. (Cl. 167—2.)

1. An ointment made from life everlasting leaves, balm of Gilead buds, elder bark, water and mutton tallow, combined in substantially equal proportions.

1,383,897. COPY-HOLDER. ALBERT N. WOODRUFF, New York, N. Y. Filed Apr. 9, 1920. Serial No. 372,487. 3 Claims. (Cl. 120—34.)

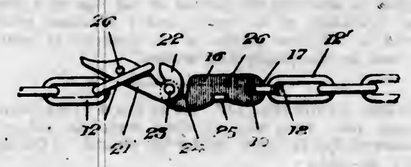


3. In a copy holder, a writing bed, a carriage mounted upon the writing bed, means reciprocatively mounted with respect to the writing bed for moving the carriage thereabout, a resiliently mounted pivoted pawl carried by the carriage and adapted for engagement with the writing bed to prevent movement of the carriage in one direction upon operation of the reciprocating carriage-moving means, a line indicator carried by the carriage and adapted for pivotal movement with respect thereto, and means positioned in the path of the line indicator whereby when said line indicator is rocked about its pivotal point, the pawl will be released from engagement with the writing bed to permit of free reciprocal movement of the carriage in either direction.

1,383,898. COUPLING FOR CHAINS. FRED W. ZIEMENDORF, Neenah, Wis. Original application filed May 11, 1920, Serial No. 380,558. Divided and this application filed Sept 20, 1920. Serial No. 411,383. 1 Claim. (Cl. 24—232.)

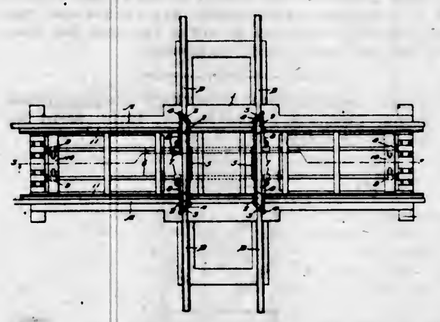
A coupling comprising a flat link member, a latch having a hook at one end overlapping and pivoted to one end portion of said member so that the latch can be swung against one side of said member, said link member having a recess in one edge at one end near said pivot for receiving a link fitted on said latch when the latch is swung against said side of the member, said hook being arranged for the seating of the link therein when the latch

is swung against the side of said member, and said link member having a hooked stop at the opposite edge for limiting the movement of and receiving the latch, said



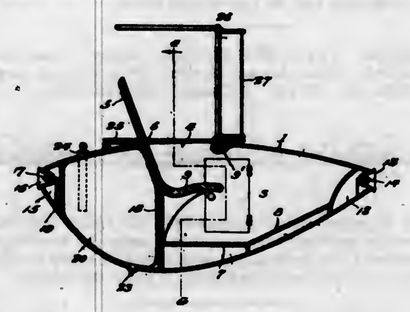
member and latch having portions to spring into engagement near said stop when the latch is swung against the stop.

1,383,899. RAILROAD-CROSSING. CHARLES A. ZOBEL, Phoenix, Ariz. Filed Nov. 9, 1920. Serial No. 422,949. 2 Claims. (Cl. 246—278.)



1. A railroad crossing having one track in a higher plane than the other track, said higher track having cutaway portions leaving spaces for receiving the lower track, pivoted bridges for said spaces, cross arms connected with said bridges, spring means for connecting the cross arms for each pair of bridges together so as to hold the bridges in closed position, rock shafts, crank arms therein, links connecting the arms with the cross arms and means for rocking said shafts by a train on the lower track.

1,383,900. SIDE CAR FOR MOTORCYCLES. LUIGI BELLUSCIO, Rochester, N. Y. Filed July 31, 1920. Serial No. 400,470. 6 Claims. (Cl. 208—45.)



5. A hollow side car body having a cock pit and an opening in its top wall in communication with the cock pit and also having in rear of the cock pit a gasolene tank, and a hinged door complementary to said opening and adapted when raised to serve as a back rest.

1,383,901. ANTIKICKING DEVICE FOR COWS. ALVAH BLACKBURN, Alum Bank, Pa. Filed Feb. 14, 1921. Serial No. 444,909. 3 Claims. (Cl. 119—126.)



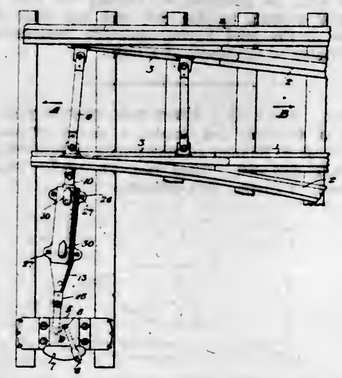
1. An anti-kicking device for cows comprising a pain inflicting member for crosswise disposition on the spinal bone of a cow, and a flexible inelastic retaining element for said member, being adapted to encircle the body of the animal.

1,383,902. COW-TAIL HOLDER. ALVAH BLACKBURN, Alum Bank, Pa. Filed Feb. 14, 1921. Serial No. 444,910. 2 Claims. (Cl. 119—105.)



1. A cow tail holder made from a single length of wire bent to form a central and horizontally disposed flat spring coil, a pair of spaced rearwardly extending handles, and a pair of spaced forwardly extending jaws, the outer ends of the latter being flared to facilitate engagement of the jaws with the cow's leg, and the free ends of the wire being bent and passed forwardly through said coil and providing comparatively short fingers for catching into the hair on the tail.

1,383,903. SWITCH-OPERATING DEVICE. ARCHIE BLAKE, New Orleans, La., assignor of one-third to Mrs. Rebecca W. Chandler. Filed Aug. 16, 1920. Serial No. 403,710. 1 Claim. (Cl. 246—321.)



In combination with the main and siding rails of a railway system, switch points therebetween, a bridle bar

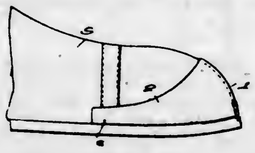
connecting the switch points, and a switch stand having switch mechanism associated therewith and locking means therefor; of a two-part casing having a closed end which is pivotally connected to the bridle bar, removable means connecting the sections of the casing, and the said casing having a centrally depressed portion therein, an operating rod slidable through the open end of the casing and pivotally connected with the throw mechanism of the switch stand, a collar on the reduced end of the operating rod, a flanged sleeve on the extreme reduced end of the operating rod, means for holding the sleeve against outward movement on the operating rod, and a helical spring surrounding the operating rod and exerting a tension against the flange of the sleeve and the collar, all as and for the purpose set forth.

1,383,904. SAFETY-LOCK FOR AUTOMOBILES. HARRY M. BROWNE, Freehold, N. J. Filed Aug. 11, 1919. Serial No. 316,707. 1 Claim. (Cl. 70—180.)



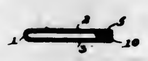
In a means for locking the starting crank of an automobile to the front axle of the machine, an angle bracket designed to have one of its arms arranged against the front of the axle and its other arm arranged beneath the axle, the first mentioned arm being of a length less than that of the height of the axle, and the last mentioned arm being of a length greater than the width of the axle, means surrounding the axle, passing through the last mentioned arm of the bracket and contacting with the inner face of the first mentioned arm for securing the bracket on the axle, an outstanding rounded ear having inwardly concaved sides integrally formed at the upper end of the first mentioned arm, jaws having semi-cylindrical body portions, outer straight ends and knuckles on their inner ends at the opposed corners thereof, said knuckles designed for contacting engagement with the opposite faces of the ear, a pivot passing through the knuckles and ear having head portions which frictionally engage with the knuckles for holding the jaws against accidental turning on the ear, and the outer straight portions of the jaws having openings therethrough for the reception of the staple of a lock.

1,383,905. BOOT AND SHOE TOE PROTECTOR. WILLIAM O. BUNNELL and QUINCY A. GATES, Wilkes-Barre, Pa.; Rose P. Bunnell administratrix of said William O. Bunnell, deceased. Filed Dec. 12, 1917. Serial No. 206,802. 1 Claim. (Cl. 36—72.)



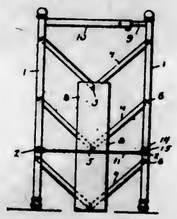
A shoe protector corresponding in shape to the forward portion of a shoe and adapted to be fitted thereon, tapered rearwardly directed extensions formed integral with the protector, penetrating prongs arranged on the terminals of the extensions extending downwardly therefrom and adapted to penetrate the portion of the sole of a shoe lying outwardly of the upper, and a fastening prong carried by the front portion of the protector to retain the same in engagement with a shoe.

1,383,906. LINGERIE-CLIP. EMMA EVANS CLARK, Hammond, Ind. Filed Mar. 22, 1920, Serial No. 367,913. Renewed May 14, 1921. Serial No. 469,495. 4 Claims. (Cl. 24—259.)



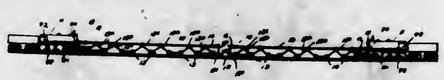
4. A lingerie clip comprising a U shaped body of resilient material, one of the limbs being stamped to form a spherical socket member and the other limb stamped to form a spherical ball member slotted at spaced points so as to snap into socket member, and a shield bent from one limb and overlapping the end of the other limb when the ball and socket are in engagement.

1,383,907. ADJUSTABLE BEDSTEAD. CHARLES COBB, Forrest City, Ark. Filed Mar. 1, 1917. Serial No. 151,775. 1 Claim. (Cl. 5—8.)



An adjustable bedstead comprising foot and head posts each of hollow formation and having slots, side rails connecting the foot and head posts together, pairs of links having their outer ends pivoted to said posts within the slot and limited in their upward and downward movements by the upper and lower walls of said slots, pivots connecting the inner ends of the pairs of links together, panels connected to said pivots on opposite sides of the links and adapted when in one position to engage the floor for aiding in supporting and limiting the movement of said links, and adjustable securing means between the pair of head posts and the pair of foot posts.

1,383,908. TRAIN STOP-SIGNAL. MOSES CULBERTSON, Kelfield, Saskatchewan, Canada. Filed Oct. 29, 1920. Serial No. 420,451. 6 Claims. (Cl. 246—166.)

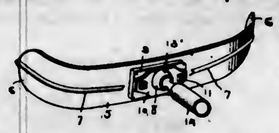


5. A safety signaling apparatus for trains including trucks, a sectional barrel supported upon the trucks and provided at its forward end with explosive means for discharging a projectile rearwardly through the barrel.

1,383,909. MINER'S BREASTPLATE. WILLIE H. DAVIS, Accoville, W. Va. Filed May 21, 1920. Serial No. 383,197. 3 Claims. (Cl. 145—66.)

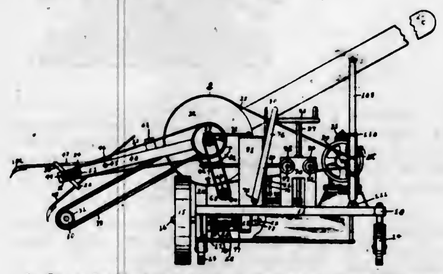
1. In combination, a breast plate, a tool supporting element, and means connecting the breast plate with the supporting element and permitting universal movement

of the latter whereby the tool supporting element and tool mounted therein may be moved to various angular



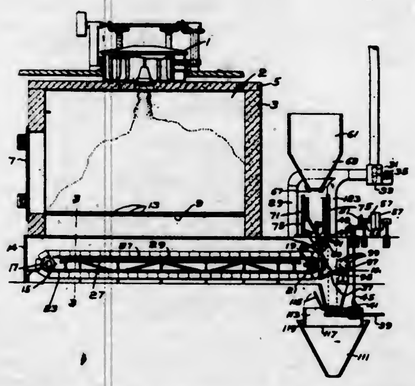
positions while the breast plate is maintained flat against the chest.

1,383,910. LOADING-MACHINE. JOHN E. DOWDEN, Lake Preston, S. D. Filed July 8, 1919. Serial No. 309,400. 6 Claims. (Cl. 193—49.)



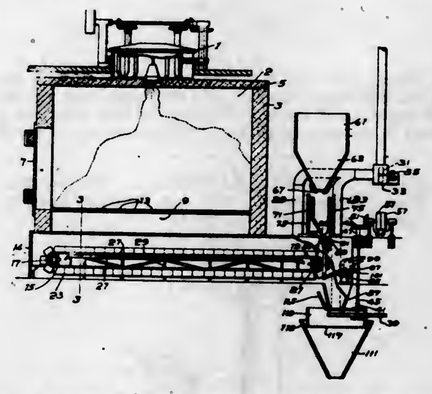
1. In a loading machine, a frame, a steerable wheel and a traction wheel journaled therein, supports mounted on said frame, a shaft journaled in said supports, means for operatively connecting the traction wheel with the shaft, an elevator pivoted on said shaft, means for operatively connecting the elevator with said shaft, a frame pivoted to said shaft and extended to position adjacent to one end of the elevator, agitating devices mounted on said frame, means for operatively connecting said agitating devices with said shaft, means for selectively operating both the traction wheel and elevator and agitating devices simultaneously and independently of each other, and means for raising or lowering the agitating devices relative to the elevator.

1,383,911. APPARATUS FOR MANUFACTURING ACID PHOSPHATE OR SUPERPHOSPHATE. WILLIAM T. DOYLE, Boston, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 13, 1920. Serial No. 365,558. 9 Claims. (Cl. 71—1.)



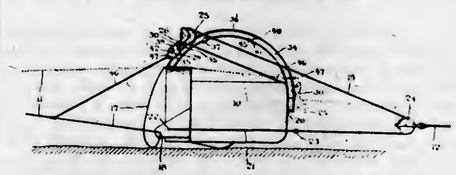
1. An apparatus for manufacturing acid phosphate, comprising, in combination, means for mixing ground phosphate rock and sulfuric acid, means for introducing the mixture into a storage den, means for conveying the mixture from said den, a housing for said conveying means for communication with said den, means for adding pulverulent phosphate rock to the mixture to take up free sulfuric acid and phosphoric acid in the mixture, means to pulverize the mixture delivered by the conveyer, and means to draw steam and fumes from the den through the housing and also from the pulveriser.

1,383,912. PROCESS FOR MANUFACTURING ACID PHOSPHATE OR SUPERPHOSPHATE. WILLIAM T. DOYLE, Boston, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 10, 1921. Serial No. 436,021. 7 Claims. (Cl. 71—7.)



1. A process of manufacturing acid phosphate characterised by mixing ground phosphate rock and sulfuric acid, storing the mixture for a period, pulverizing the mixture, adding pulverulent phosphate rock to the mixture to take up free sulfuric acid and phosphoric acid therein, and removing the steam and fumes from the mixture.

1,383,913. EXCAVATING APPARATUS. PIERPONT E. DUTCHER, Upper Montclair, N. J. Filed Nov. 28, 1919. Serial No. 341,035. 11 Claims. (Cl. 37—54.)

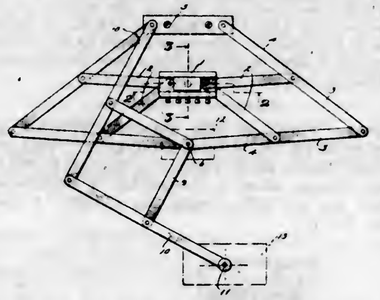


1. An excavating apparatus including, a bucket adapted to operate on the ground, a line circuit secured to said bucket, means for actuating the line circuit to cause the bucket to dig and then carry its load, and means for causing the bucket to maintain a regular digging angle with tension on the drag line only irrespective of the amount of load in the bucket.

1,383,914. PANTOGRAPH. RUDOLPH CHRISTOPHER EMMERLING, West Hoboken, N. J. Filed Dec. 24, 1919. Serial No. 347,095. 3 Claims. (Cl. 33—25.)

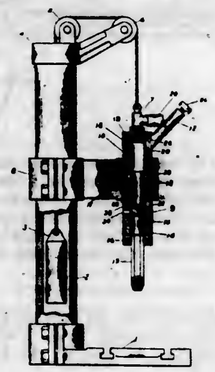
1. A device of the character stated comprising a fixed support, a pair of levers pivotally connected to opposite ends of the support, a pair of links, each link pivotally connected at one end to the free end of one of the levers and the other ends of said links being pivotally connected

together, a plurality of work-holding arms pivotally connected at one end to a piece of work and at their other ends to the intermediate portions of the links and levers,



a tracing point, an arm carrying said tracing point, and means connecting said arm with the support and with the pivotal point of the links whereby the work is caused to move in the direction in which the tracing point is moved.

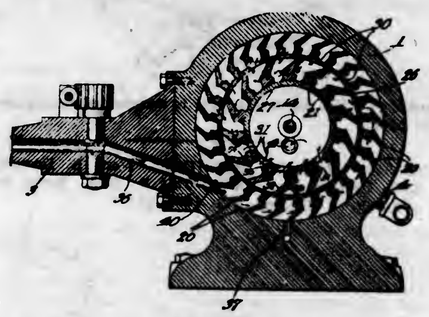
1,383,915. RIVETING MACHINERY. CHARLES REMI ENGEL, Yoman, Wash. Filed Sept. 15, 1919. Serial No. 323,841. 4 Claims. (Cl. 78—42.)



1. A pneumatic machine comprising a main supporting standard provided with a base, a hammer supporting arm adjustably supported by said standard, said arm being adapted to swing about the axis of said standard and being adjustable of position along said axis, a pneumatic hammer supported by said hammer supporting arm, said hammer being provided with a rack engaging with a pinion supported by said arm, said pinion being provided with an operating lever whereby said hammer may be raised or lowered, means integral with said operating lever for controlling the air supply to said hammer, said hammer being provided with means for holding tools adapted to pneumatic hammer work, said base acting as a support for the work to be executed, and means for counterbalancing the weight of said hammer and its attached elements.

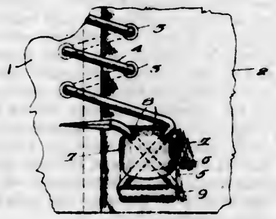
1,383,916. ROTARY ENGINE. PETER ERICSON, Tacoma, Wash. Filed July 15, 1918. Serial No. 244,959. 3 Claims. (Cl. 253—51.)

1. A rotary engine comprising a fixed casing, a rotor therein dividing the casing permanently into two independent chambers, said casing having an annular projection extending inwardly beyond the outer edge of the rotor and reducing the diametric extent and therefore the volume of one chamber with respect to the other, annular partitions projecting from the walls of the casing into and dividing each chamber, buckets carried by the rotor and operating in spaces defined by the partitions, means



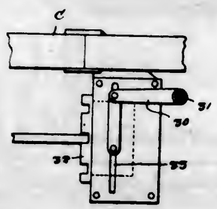
for admitting a motive fluid to either chamber at will, the respective annular partitions being formed throughout a limited non-registering area with openings to permit the passage of steam through and beyond such partitions.

1,383,917. HOLDER AND TIE. ADDISON HAMILTON EVA, San Antonio, Tex. Filed Aug. 27, 1920. Serial No. 406,313. 3 Claims. (Cl. 24—121.)



2. A device of the character specified, comprising a plate having a portion overlying the body thereof, and connected to the plate at one end by a reduced neck, the side edges of the overlying portion extending toward the body of the plate, and a stop at that end of the plate remote from the neck for engagement by the lace.

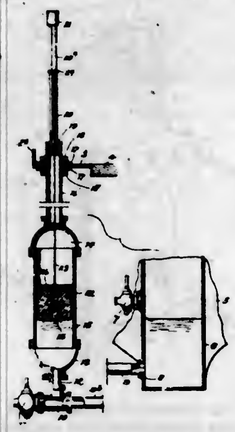
1,383,918. ADJUSTABLE SIEVE-HOLDER FOR THRESHING-MACHINES. ADOLPH R. FADNESS, Velva, N. D. Filed July 30, 1920. Serial No. 400,052. 1 Claim. (Cl. 130—15.)



In a threshing machine, including superposed sieves, of a pair of housings secured upon the inner surfaces of the side of the threshing machine, bars slidable vertically within said housings and formed with a series of notches within selected ones of which the sieves may be engaged, a shaft journaled transversely of the threshing machine and provided with an operating knob exteriorly thereof,

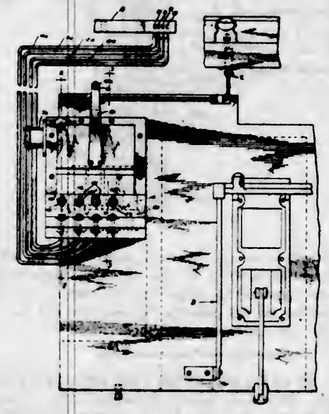
the confronting faces of said housings being formed with vertical slots, arms carried by said shaft, and links pivotally connected to the free ends of said arms and pivotally connected with said bars, said last named pivotal connections being accommodated within said slots.

1,383,919. LUBRICATING SYSTEM. STANLEY W. FINCH, Washington, D. C. Filed Feb. 4, 1921. Serial No. 442,433. 5 Claims. (Cl. 184—13.)



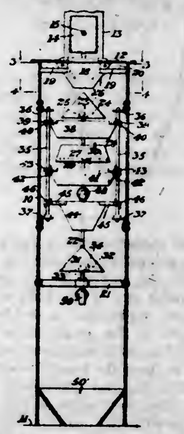
2. In combination with an oil reservoir of an internal combustion engine; a pipe extending from the lower portion thereof; a float chamber in communication with said pipe; a pipe extending from the upper end of said chamber; means carried by said pipe for securing it to a fixed element; a slotted member secured to said last named pipe; a float in the float chamber; and a rod, the lower end whereof is secured to the float, said rod extending upwardly from the float through the pipe and the slotted member and having its upper end bent laterally and extending outwardly through the slot.

1,383,920. AUTOMATIC EXPRESSION-CONTROLLING DEVICE. CHARLES FREBORG, Kankakee, Ill., assignor to Price & Teeple Piano Company, Chicago, Ill., a Corporation of Illinois. Filed July 24, 1918. Serial No. 246,429. 5 Claims. (Cl. 84—42.)



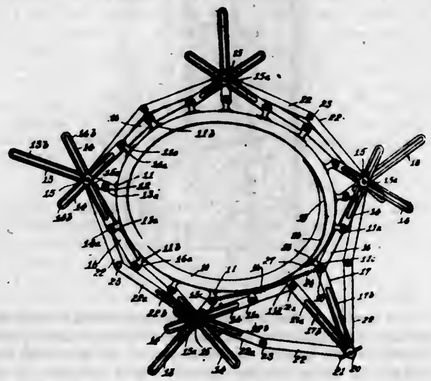
1. In a structure of the class described, an air-exhausting means, means to convey air thereto, a plurality of ducts providing communication between said air-conveying means and said exhausting means, a valve normally closing each of said ducts, means to open each of said valves upon passage of a corresponding aperture in a sheet of music over a tracker board, said ducts being each provided with a port, and a main valve member for regulating flow of air through said ports, said ports being located in different positions relative to the direction of movement of said main valve.

1,383,921. AGITATOR. MICHAEL M. FREDEL, Brooklyn, and WILLIAM BOSANKO, Richmond Hill, N. Y. Filed Feb. 23, 1921. Serial No. 447,080. 13 Claims. (Cl. 259—4.)



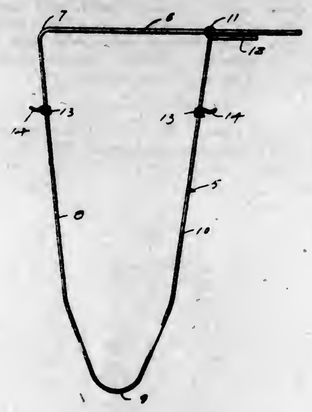
1. In an apparatus of the class described, means causing the material under treatment to assume a hollow completely closed wall formation, and a plurality of devices through and over which the said material is alternately caused to flow and to be maintained at all times during its flow through the apparatus in its hollow completely closed wall formation to agitate the material.

1,383,922. HAT-CONFORMATOR. DAVID FREEDLINE, Brooklyn, N. Y. Filed Aug. 16, 1920. Serial No. 403,634. 8 Claims. (Cl. 33—176.)



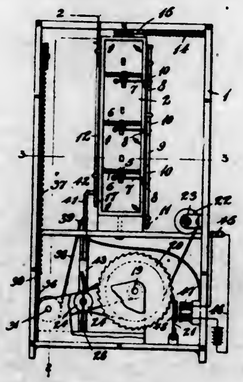
1. A hat conformator comprising a split band, and groups of adjusting elements disposed about the band and pivotally secured thereto at various points about the band.

1,383,923. FUR-STRETCHER. JAMES EDWARD FRITCH, Cody, Nebr. Filed June 6, 1918. Serial No. 238,526. 1 Claim. (Cl. 149—21.)



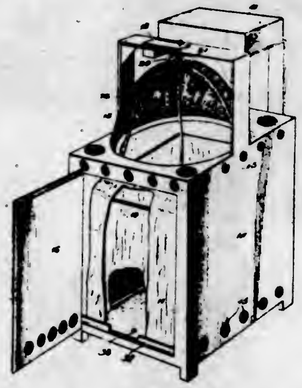
As an article of manufacture, a fur stretcher comprising a single wire strand bent to form a body of substantially V-shape with the end of one leg extended at a right angle across the large end of the body and past the opposite leg, said opposite leg having its end bent to form a loop at an oblique angle to the longitudinal axis of the first mentioned end, the second mentioned end being extended to provide a loop to form the handle whereby the loop may be turned to receive the first mentioned end and grip the same frictionally when the handle is released to retain the sides of the body in adjusted position, and a pair of fur engaging members mounted on the sides of the body.

1,383,924. BURGLAR-ALARM. KUWAKICHI FUJITA, Hazleton, Pa. Filed Nov. 19, 1918. Serial No. 263,191. 3 Claims. (Cl. 116—75.)



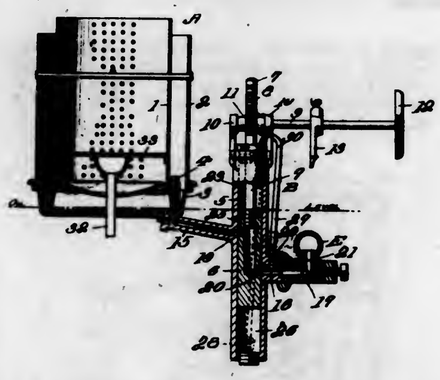
1. A device of the class described comprising a rotatable member, cartridge-receiving barrels therein, trigger mechanism carried by said member, means for rotating said member to bring the barrels into firing position, a rod for holding said member against rotation, a second rod having arms thereon of different lengths, rods connected with the trigger mechanism and engaged by said arms for holding the triggers cocked, a vertically movable rod having parts thereon for engaging the holding rod when the member is in non-firing position and the arm carrying rod when the member is in firing position and a spring motor for actuating said vertically movable rod.

1,383,925. COOLER. KUWAKICHI FUJITA, Hazleton, Pa. Filed June 15, 1920. Serial No. 389,173. 6 Claims. (Cl. 45—133.)



1. A device as characterized comprising a casing embodying a storage compartment and air passages, a fabric inclosing said compartment, and in combination, apparatus for periodically spraying said fabric with a liquid, including a rotatable member which temporarily retains the liquid.

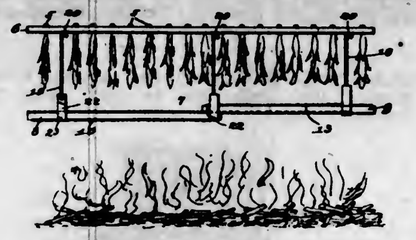
1,383,926. OIL-FEED CONTROLLER. FREDERICK L. FULDAUER, Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo., a Corporation of New Jersey. Filed Nov. 19, 1920. Serial No. 425,124. 16 Claims. (Cl. 158—49.)



1. A controller for oil burners, comprising an oil conduit, a controller located in the conduit comprising two members, one movable in respect to the other, one of said members having an oil passage tapered toward its closed position, for the purpose described.

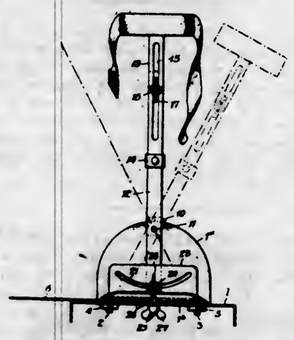
1,383,927. SPARK-ARRESTER FOR TOBACCO-DRYING HOUSES. HENRY L. GANTT, Roseland, Va. Filed Feb. 11, 1921. Serial No. 444,132. 4 Claims. (Cl. 183—51.)

1. A spark arrester unit for the area of a drying chamber consisting of a plurality of elements each having a frame and a foraminous fabric thereon, means on one of said elements for receiving another of said elements



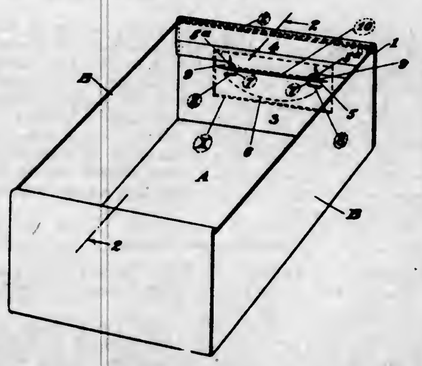
in an adjustable over-lapping relationship, and suspending means for said elements.

1,383,928. SURGICAL OR ORTHOPEDIC APPLIANCE FOR THE TREATMENT OF THE ANKLE. GRACE GASSETTE, Chicago, Ill. Filed Mar. 3, 1919. Serial No. 280,221. 12 Claims. (Cl. 128—88.)



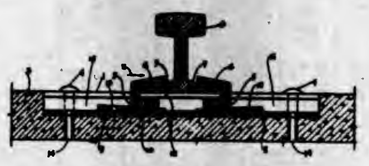
1. In an appliance of the character described, a sole plate arranged to be secured to the foot of a patient, a side piece rigidly connected with said sole plate, a leg support universally articulated with said side piece adjacent the ankle joint and arranged to be secured to the patient's leg above said joint, and means for rigidly securing said leg support in any position of adjustment.

1,383,929. FOLDING CARDBOARD BOX. EDWARD G. GEREKE, St. Louis, Mo. Filed Dec. 4, 1920. Serial No. 428,272. 10 Claims. (Cl. 229—34.)



1. A box formed of cardboard or the like and having a wall composed of a plurality of overlapped portions, one of which portions is provided with an opening through which a tongue is adapted to be inserted and the adjacent portion having an open space or hole for receiving said tongue.

1,383,930. RAIL-CLAMP. STUART L. GRAWIG, Rome, N. Y. Filed Mar. 3, 1921. Serial No. 449,323. 10 Claims. (Cl. 238—331.)



4. A rail clamp comprising a base section which supports the rail, clamping means carried by said base section for clamping the rail thereto, and wedges driven between the said clamping means and said base section in a direction transversely to the rail and longitudinally to the base section, thereby locking the clamping means in clamping condition.

1,383,931. DIRECTION-INDICATOR FOR AUTOMOBILES. MARIO USAI GIOVANNETTI, Bridgeport, Conn. Filed Sept. 27, 1920. Serial No. 412,985. 3 Claims. (Cl. 116—44.)

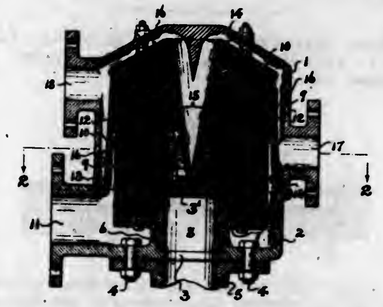


1. A direction indicator comprising a casing having its upper end open, and provided with guide slots, bell crank levers pivoted in said casing and one of the arms of said bell crank levers being longer than the other, signals pivoted to the long arms of the bell crank levers and normally resting horizontally within said casing and being disposed in opposite directions, means for swinging the bell crank levers upon their pivots to elevate the signals into a position exteriorly of the casing, pins carried by the signals and extending into the slots to guide the signals into and out of the casing, means for maintaining the signals in horizontal position when elevated, and means for returning the signals to a non-signaling position within the casing.

1,383,932. SURFACE VAPORIZER ATTACHMENT FOR CARBURETERS. ERNEST R. GODWARD, Invercargill, New Zealand. Filed Apr. 30, 1920. Serial No. 377,796. 8 Claims. (Cl. 48—180.)

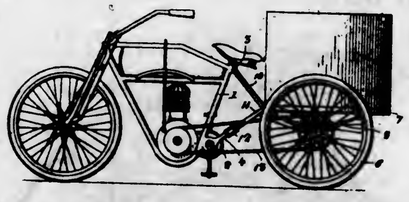
2. In a device of the kind described, a casing having an inlet opening and a discharge opening, a plurality of nested conical plates inclosed within said casing, said conical plates having centrally disposed openings of uniform diameter alined together to provide an inlet passage extending through said nested plates and communicating with said inlet opening of said casing, said conical plates being vertically spaced one from another to provide intermediate lateral passages bounded by the downwardly sloping surfaces of contiguous plates, the distance of separation of said plates being such that the sum of the areas of the

intake ends of said lateral passages approximates the cross-sectional area of said inlet passage extending through said plates, and the walls of said casing being



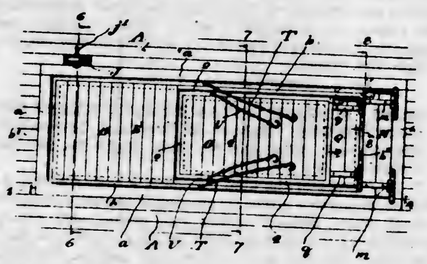
spaced away from the outer circumference of said nested plates to provide an annular discharge passage between the outlet ends of said lateral passages and said discharge opening of said casing.

1,383,933. MOTORCYCLE-TENDER. HARRY J. GOODMAN, Chicago, Ill. Filed Jan. 24, 1921. Serial No. 439,702. 1 Claim. (Cl. 208—45.)



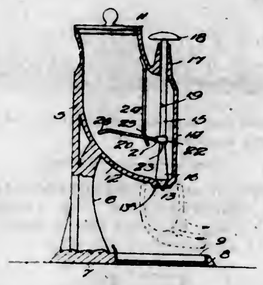
In a machine of the type specified embodying a main frame having upper and lower rear extensions, a truck, transversely spaced upper and lower members projecting forwardly from the truck, said upper members converging at their front ends and rigidly secured to the upper rear extension of the main frame, and coupling means rigidly connecting the lower members to the lower rear extensions of the main frame.

1,383,934. VEHICLE-DUMP. JAMES R. GAIDSS, Rosedale, Ind. Filed Apr. 19, 1920. Serial No. 375,025. 6 Claims. (Cl. 214—49.)



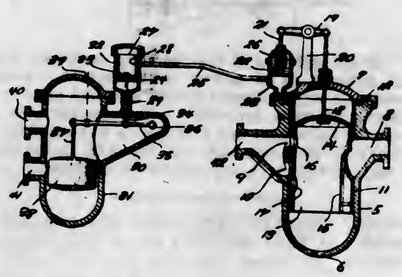
1. A vehicle dump, comprising a floor, a truck-dumping platform mounted therein to turn about a horizontal axis, a wagon-dumping platform mounted within the truck-dumping platform to turn about a horizontal axis, a trap door within the truck-dumping platform and in rear of the wagon-dumping platform, another trap door mounted in the floor in rear of the truck-dumping platform and in rear of the trap door first mentioned, and means for separately raising and lowering said trap doors.

1,383,935. TOBACCO-RECEPTACLE. ANDREW J. GUILL, Winifred, Mont. Filed Feb. 28, 1919. Serial No. 279,838. 3 Claims. (Cl. 131—59.)



3. A tobacco receptacle including a body provided with a discharge port, a vertically movable loosely mounted valve rod constituting a closure for said port, an agitator arm pivotally secured to the rod, and a slotted supporting arm loosely supporting the agitator arm and normally supporting the latter in a substantially horizontal position in the lower portion of the body when the valve rod is in closed position.

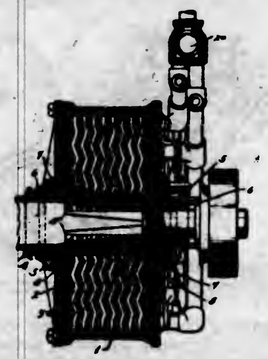
1,383,936. BOILER-FEED-WATER REGULATOR. WILLIAM E. GUISE, Rittman, Ohio. Filed July 17, 1919. Serial No. 311,476. 3 Claims. (Cl. 137—101.)



1. The combination of a valve casing having an inlet and an outlet port, a sleeve valve mounted to reciprocate in said casing and having an inlet port always in register with the inlet port of the casing and an outlet normally out of register with the outlet of the casing, pressure controlled means for holding said valve in normal position, a receptacle having a float, a valve connected to reduce the pressure in said means on the lowering of the float to a predetermined point thereby moving the sleeve valve to bring its outlet port into register with the outlet of the casing.

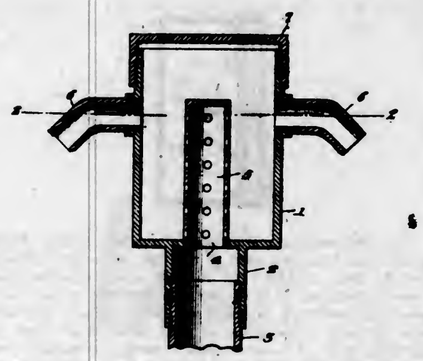
1,383,937. TURBINE. LAURENCE RAWLIN GUTHRIE, Miami, Okla. Filed Feb. 12, 1920. Serial No. 358,065. 3 Claims. (Cl. 253—51.)

1. A turbine, comprising a stator and a rotor, said rotor consisting of a tubular shaft forming an exhaust passage and having radial perforations therein within the stator, a series of annularly corrugated disks secured on the shaft and spaced apart and forming passages between them communicating with the radial perforations of the shaft, a pair of tangential nozzles in the stator projecting in opposite directions and discharging into the spaces between the disks, each of said spaces



being provided with a pair of said nozzles, and means for controlling the flow of motive fluid through either of the sets of pairs of nozzles in accordance with the direction of rotation desired for the rotor.

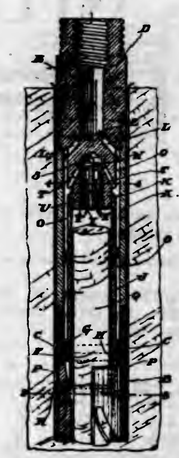
1,383,938. CHEMICAL-RETAINER FOR SEWER-PIPES. NELSON R. HAGEMAN, Reno, Nev. Filed Oct. 12, 1920. Serial No. 416,365. 1 Claim. (Cl. 4—21.)



A device of the class described comprising a container having a reduced lower end screw threaded to engage the screw threaded upper end of the vent pipe, a perforated tube within the container having its lower end in communication with said reduced part and its upper end closed, a vent pipe connected with the upper part of the container and a screw threaded cover closing the top of the container.

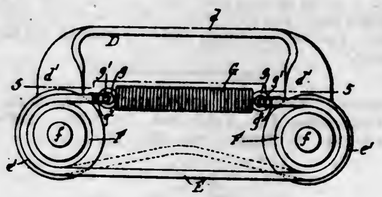
1,383,939. DOUBLE CORE-BARREL FOR CORE-DRILLS. CHARLES C. HANSEN, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 3, 1920. Serial No. 401,000. 5 Claims. (Cl. 255—72.)

1. A double core barrel for core drills comprising outer and inner barrels, a bit connected to the lower end of the outer barrel, a plug connected to the upper end of said outer barrel, the said plug having an upper bore communicating radially with the space between the barrels, a valve chamber below said upper bore, a relief valve in said chamber controlling communication between the inner barrel and the space between the barrels, and lateral apertures in the upper portion of the bit, whereby



shot and cleaning fluid introduced into the plug are carried by centrifugal action into the space between the barrels, and pass downwardly and out through the said lateral apertures and around the outside of the bit to the cutting edge.

1,383,940. BUMPER FOR LOOMS AND THE LIKE. ORLANDO P. HARGROVE, Wayland, N. Y. Filed June 15, 1920. Serial No. 389,060. 5 Claims. (Cl. 139—22.)

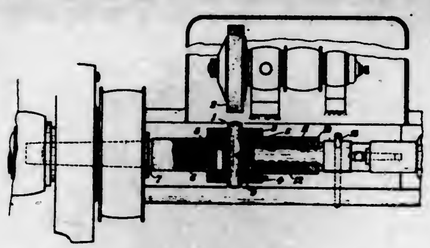


2. A picking stick bumper for looms and the like, including a frame member having a body portion adapted to be secured to the loom frame and having arms extending outwardly beyond said body portion, a flexible member stretched between said arms and adapted to receive the blows of the picking stick, and resilient means also arranged between said arms and connecting with the ends of said flexible member for stretching said flexible member across said arms.

1,383,941. WORK-HOLDER FOR GRINDING AND THE LIKE MACHINES. ROBERT HARMAN, York, England, assignor to T. Cooke & Sons, Limited, Bishopshill, York, England. Filed Feb. 27, 1920. Serial No. 361,877. 2 Claims. (Cl. 51—237.)

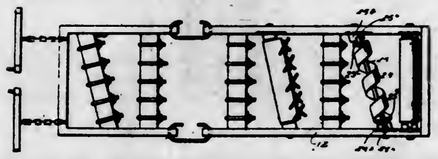
1. As an article of manufacture, a holder for a piece of work, means to secure the work in said holder, with both ends permanently exposed for operation, a spindle

carrying said holder, means to continuously rotate said spindle, and means to continuously rotate said holder in



said spindle about an axis at right angles to the axis of rotation of the spindle.

1,383,942. HARROW. JAMES W. HARRIS, Turbeville, S. C. Filed Mar. 20, 1918. Serial No. 223,560. 2 Claims. (Cl. 55—12.)



1. A soil leveler consisting of a substantially cylindrical elongated body with relatively wide convolutions in direct contact with the ground to travel thereon and with such convolutions separated to provide an intervening space.

1,383,943. METALLIC PACKING. WILLIAM L. HARRIS, New York, N. Y. Filed Aug. 20, 1920. Serial No. 404,855. 4 Claims. (Cl. 106—8.)

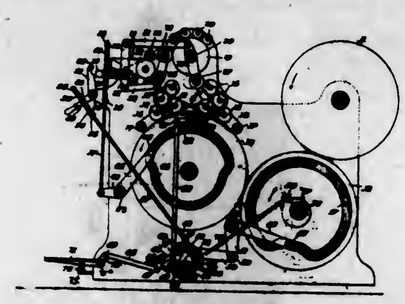
1. A metal packing comprising a metal alloy in a finely divided state, asbestos, grease, mica and metal wool intermixed with the remaining parts for holding the same together.

1,383,944. SURGICAL APPLIANCE. LEWIS B. HART, Plaquemine, La. Filed Dec. 20, 1919. Serial No. 346,254. 2 Claims. (Cl. 128—79.)



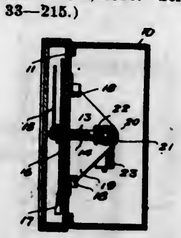
1. An appliance of the class described comprising a split resilient and flexible sleeve-like body, said body including inner and outer concentrically disposed members, and longitudinal ribs projecting from each member and alternately disposed to hold said members separated, and said ribs providing longitudinal spaces between said members as and for the purpose specified.

1,383,945. INKING MECHANISM FOR PRINTING-PRESSES. CARL HENDERSON, Oak Park, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 9, 1918. Serial No. 233,412. 10 Claims. (Cl. 101—351.)



1. In a printing press, the combination with the form cylinder of a printing couple, and inking mechanism therefor comprising an ink fountain, ink distributing rolls, and form rolls, of a ductor for transferring the ink from the fountain to the distributing rolls, a second ductor for transferring the ink from the distributing rolls to the form rolls, and means for concurrently suspending the functioning of both ductors and of the form rolls whereby to intermit the flow of the ink from the fountain.

1,383,946. INCLINOMETER. JOHN A. HERRING, Okmulgee, Okla. Filed June 4, 1920. Serial No. 386,436. 1 Claim. (Cl. 33—215.)



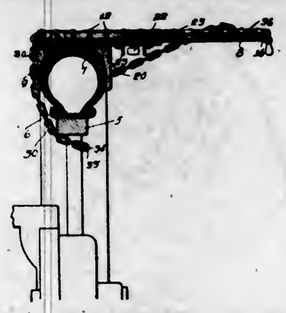
An inclinometer comprising a graduated dial, flanges projecting from one side of the dial, an arbor journaled on the dial, a hand fixed on said arbor, a second hand loosely mounted on the arbor and weighted at one end, a shaft journaled in said flanges, beveled gears carried by the adjacent extremities of said arbor and shaft and meshing with each other, and a weight removably associated with said shaft, said hands being gravity actuated and independently operable.

1,383,947. METHOD OF MAKING SHOE-FILLERS. MEYER S. HESS, Baltimore, Md. Filed Oct. 8, 1917, Serial No. 195,427. Renewed Aug. 21, 1919. Serial No. 319,043. 3 Claims. (Cl. 12—146.)



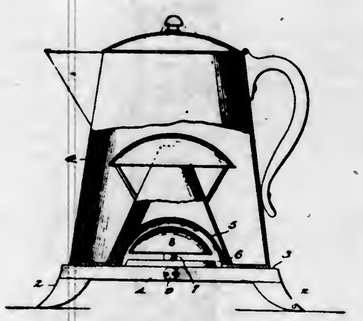
1. The method of reclaiming deformed insoles in shoes which consists in superposing on the insole a filler which is plastic only at temperatures higher than body temperature, and then by pressure conforming its upper and lower surfaces respectively to the last of the shoe and to the deformities in the insole.

1,383,948. TRACTION DEVICE. HUGH EDWARD HOUSTON, Wichita Falls, Tex. Filed Dec. 9, 1920. Serial No. 429,474. 1 Claim. (Cl. 152—14.)



A traction element comprising a plate provided with a rigid right-angular end adapted to embrace a portion of a wheel, a block slidably mounted on said plate and adapted to engage a portion of the wheel, said right-angular end and said block being so shaped as to conform to the outer portion of the wheel engaged, a plurality of ribs carried by the plate, a centrally disposed attaching chain extending longitudinally of the plate and engaging the spokes of the wheel at one end and the end of the plate at its other end, and diagonally arranged chains attached to one end of the plate at one of said ends, said chains diverging toward the wheel and secured thereto at a point exterior of the confines of the plate.

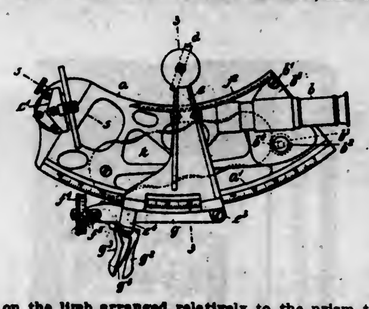
1,383,949. ELECTRIC STOVE. JOHN A. HOWARD, Sr., West New Brighton, N. Y., assignor to Camward Engineering Co. Inc., a Corporation of New York. Filed July 3, 1920. Serial No. 393,847. 1 Claim. (Cl. 219—43.)



In a cooking means, a utensil having a closed central chamber rising from its bottom and also having a flat bottom portion surrounding said chamber, in combination with a stove comprising a base portion with a flat upper surface on which said flat bottom portion of the utensil is superimposed, and an electrical heating edement rising from said base portion of the stove and disposed in said chamber of the utensil, whereby the opposed coöperating surfaces of the bottom portion of the utensil and the base portion of the stove are adapted to confine heat in said utensil chamber.

1,383,950. SEXTANT. HENRY ALEXANDER HUGHES, London, and THOMAS YEOMANS BAKER, Slough, England. Filed Apr. 27, 1920. Serial No. 377,065. 1 Claim. (Cl. 88—23.)

In a sextant, a limb in the form of a segment of an annulus, a carrier slidable bodily thereon in the arc of a circle whose center lies outside the sextant, means for adjusting the carrier on the limb, an index mirror on the carrier, a horizon prism mounted on said limb, and a telescope on the limb arranged relatively to the prism to receive direct rays of light from beneath the prism and reflected rays therefrom, substantially as described.

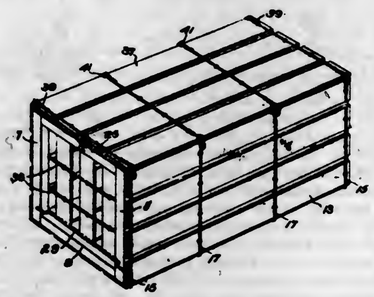


1,383,951. VULCANIZING DEVICE. SAMUEL J. HURWITZ, Youngstown, Ohio. Filed Oct. 15, 1918, Serial No. 258,140. Renewed Dec. 11, 1920. Serial No. 430,046. 2 Claims. (Cl. 18—18.)



1. A vulcanizing device comprising an element having a vulcanizing surface, a heating member in said element, a second element having a rockable vulcanizing surface and also having an individual heating member complementary to and rockable with said surface, and means at opposite sides of said surfaces to hold the elements together under pressure.

1,383,952. BOX. RICHARD G. INWOOD, deceased, South Bend, Ind., by Mary Cain Inwood, administratrix, South Bend, Ind., and Charles H. Bombardie, Chicago, Ill., assignors to Wirebounds Patents Company, Kittery, Me., a Corporation of Maine. Filed Jan. 10, 1918. Serial No. 211,272. 18 Claims. (Cl. 217—12.)



1. A wirebound box comprising relatively foldable side and bottom sections having coöperating end cleats and connected by wire bindings; end sections embraced thereby each having a cleat corresponding to the fourth side of the box adapted to interlock with the cleats of the side sections; and transverse metal reinforcing members carried by the end sections and fastening means for coöperation therewith carried by the cleats of the side sections.

1,383,953. MATERIAL-FEED-REEL BRAKE. HENRY VINCENT JAMES, Radlett, England. Filed Mar. 28, 1918. Serial No. 224,362. 8 Claims. (Cl. 242—75.)



3. In combination with a spindle for a material feed reel; of a brake drum mounted on the spindle; vertically movable bearings in which the spindle is mounted and whereby the spindle is capable of rising and falling movements; springs for counterbalancing the weight of the spindle and the material thereon, said springs causing the spindle to rise as the weight of the material on the spindle decreases; and an electric brake coöperating with the brake drum on the spindle and capable of retarding the rotation of the spindle; a rheostat electrically connected to said brake; and connections between the rheostat and the vertically movable bearings for operating the rheostat to vary the effective braking operation of the electric brake as the weight of the material on the spindle decreases.

1,383,954. RAILROAD-TIE. CHARLES JAMES JONES, Marshall, Tex. Filed Apr. 1, 1921. Serial No. 457,715. 3 Claims. (Cl. 238—62.)



1. In a device of the character described, a metallic tie having openings formed adjacent to the ends thereof, fasteners comprising body portions associated with the tie, the body portions having extensions positioned within the openings, a curved arm forming a part of each fastening device, said curved arm adapted to embrace a portion of the rail, a bolt passing through each body portion and having a curved extremity embracing a portion of the rail, and means coöperating with the extensions for securing the extensions to the tie.

1,383,955. COTTON-PICKER'S BAG. JOE LEN KILEY, Heloise, Tenn. Filed May 11, 1920. Serial No. 380,452. 3 Claims. (Cl. 150—2.)

1. A device of the class described comprising a tubular sack open at the ends and with a plurality of fastening devices attached to the sides of the sack and spaced from its ends, the material of the sack in advance of the fastening devices foldable in superposed layers to form a closure to the sack and means for connecting the fastening devices from the opposite sides of the sack.



1,383,956. HARVESTING-BAG. JOE LEN KILEY and ROLAND E. LUCAS, Heloise, Tenn.; said Lucas assignor of one-half of his entire right to said Kiley. Filed Sept. 13, 1920. Serial No. 410,060. 3 Claims. (Cl. 150—2.)

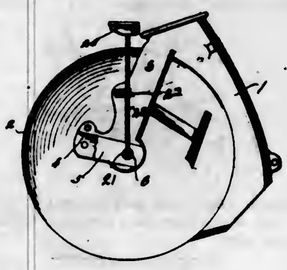


1. In a harvester bag of the class described, an open ended flexible body, flexible reinforcing strips stitched to and outside the body, draw strings for closing both ends of the body and the reinforcing strips, fastening means secured to the outer ends of said body, an auxiliary bag having a pocket stitched to the sides thereof detachably secured to said fastening means and adjustable shoulder straps for supporting said auxiliary bag and body for the purpose specified.

1,383,957. OILER FOR DISK DRILLS. ROBERT W. LEWIS, Granville, N. D. Filed June 18, 1918. Serial No. 240,565. 10 Claims. (Cl. 64—27.)

1. The combination with a support, a spindle carried by said support, a disk drill mounted upon said spindle,

of a hollow bolt passing through said support and spindle and extending into said oil chamber for conveying lubricant to the oil chamber, and for securing the spindle to the support.

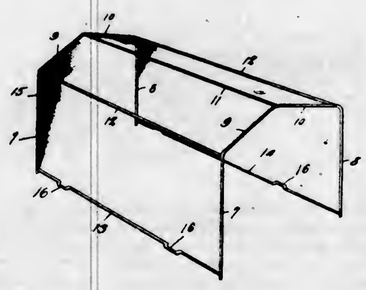


1,383,958. BEARING-BRASS. HAROLD G. MARTIN, Philadelphia, Pa., assignor of one-half to Michael H. Newgirg, Baltimore, Md. Filed Nov. 23, 1920. Serial No. 426,012. 1 Claim. (Cl. 64—10.)



A bearing brass having a reinforce section embedded therein, said section having hook-ends and being curved adjacent the ends in conformity with the curvature of the brass, the intermediate portion of the reinforce being thickened, whereby when thrust in direction of the thickened portion of the reinforce occurs and tends to cause the reinforce to yield, the hook-ends engaging in the brass prevent yielding and breaking of the brass.

1,383,959. SCREEN-HOOD. RALPH MARTIN, Winslow, Ind. Filed Dec. 10, 1919. Serial No. 343,908. 1 Claim. (Cl. 180—69.)



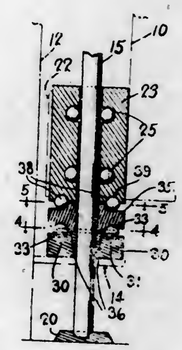
In an engine hood, the rigid frame embodying end sections, horizontal upper and lower bars connecting the end sections, the lower bars having offset portions to receive the usual hood securing clips, a covering of wire mesh material supported by the bars and end sections, and said hood having inclined upper surfaces.

1,383,960. LEVELING AND MEASURING INSTRUMENT. JAMES MAZZACCO, Gallup, N. Mex. Filed July 22, 1918. Serial No. 246,070. 1 Claim. (Cl. 33—72.)



In a device for the purpose set forth, a graduated stock having a degree indicator centrally thereof and a longitudinally extending round opening therethrough adjacent one of the edges thereof, a tube having one of its ends arranged a slight distance inwardly of the opening at one end of the stock, said tube having a closed end provided with a central opening, a second tube telescopically received in the first mentioned tube, compressing means between the tubes for frictionally holding one of the tubes when withdrawn through the other tube, a collar in the opening surrounding the outermost tube and providing a locking means for the said tube, all as and for the purpose set forth.

1,383,961. GATE-HINGE. FRANK MELUGIN, Webb City, Mo. Filed Sept. 7, 1918. Serial No. 253,041. 1 Claim. (Cl. 16—163.)

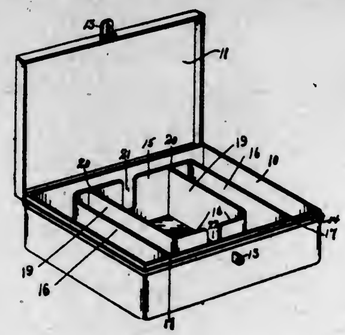


In a device of the class described, a vertical shaft, means for mounting the latter, a tubular member carried by the shaft and provided with internal grooves constituting race ways, balls located in said grooves and bearing on the shaft, means for securing the tubular member to a gate or the like, a race plate rigidly mounted on the shaft and provided with a cam surface comprising oppositely located depressed portions provided with grooves, a second race plate having a cam surface similarly formed on that side adjacent to the race plate first named, a series of balls between the second race plate and tubular member and means for retaining the individual balls in position between said elements last named causing them to rotate together upon the shaft.

1,383,962. INNER-TUBE RECEPTACLE. JAMES HARLAN MILLS, Gallipolis, Ohio. Filed June 28, 1920. Serial No. 392,251. 1 Claim. (Cl. 206—1.)

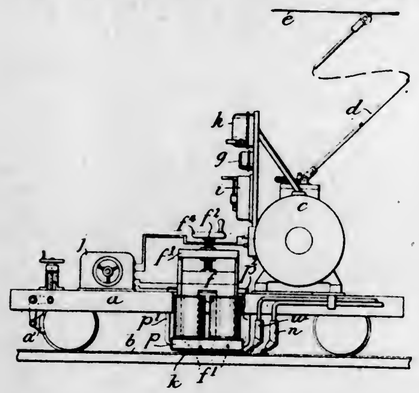
A container having an outer U-shaped partition therein united at the ends of its side members to one wall of

the container, and an inner and smaller U-shaped partition within the outer U-shaped partition with the ends



of its side members united to the closed end of the outer partition, whereby interengaging U-shaped spaces are provided within the walls of the container.

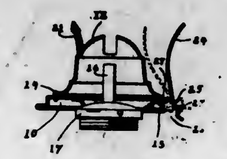
1,383,963. HEAT TREATMENT OF TRAMWAY AND OTHER RAILS. WILLIAM MORRIS MORDEY, Westminster, England. Filed June 2, 1920. Serial No. 386,029. 13 Claims. (Cl. 148—10.)



1. The process for the heat treatment of a tramway or other rail for the purpose herein set forth, which consists in causing the rail to pass longitudinally through a magnetic field set up between the magnetic poles of a powerful alternate current electromagnet so that successive longitudinal portions of the rail will successively form between the said poles part of the magnetic circuit of the magnet core and will have induced in each of them in succession a magnetic flux and consequent eddy currents, of such strength as thereby to become heated to the desired temperature limited by the critical non-magnetic temperature of the metal of which the rail is composed, the successive portions of the rail thus heated being successively cooled.

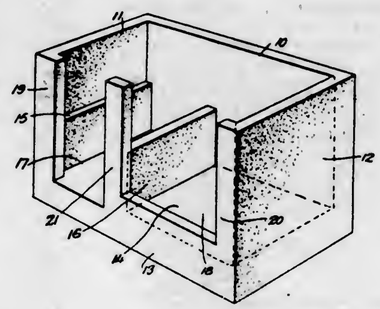
1,383,964. LAMP-BURNER. CHARLES H. MULLICAN, Macy, Ind. Filed Jan. 2, 1920. Serial No. 348,783. 1 Claim. (Cl. 240—98.)

In a lamp burner, a base portion, a plurality of permanently mounted spring fingers carried thereby, a dome hinged on the base, a pivotally mounted spring finger cooperating with the fingers first named and movable on a horizontal axis toward and away from the dome, for resiliently engaging the inner surface of the chimney, and retaining means movable radially of the base, formed



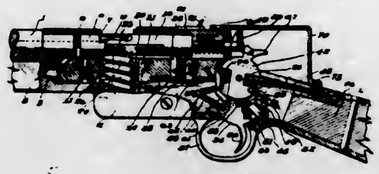
on the pivoted finger, and proportioned to positively engage the edge of the base, said retaining means constituting a spring clip.

1,383,965. COMPOSITE STOVE. WILLIAM H. MYERS, New York, N. Y., assignor to Union Stove Works, New York, N. Y., a Corporation of New York. Filed Sept. 11, 1917. Serial No. 190,826. 2 Claims. (Cl. 126—1.)



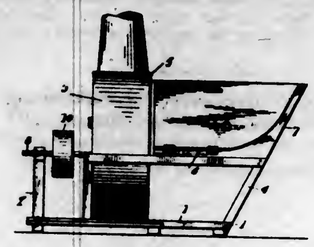
2. A stove including bottom, end, back and front walls integrally formed from a plastic composition suitably molded, said front wall being formed by inwardly projecting portions of the forward extremities of the end walls, and by an extension rising from the forward edge of the bottom wall, thereby providing an opening, and a top for the stove.

1,383,966. AUTOMATIC RIFLE. STACY OLIVER, Hartford, Conn. Filed Feb. 3, 1919. Serial No. 274,680. 6 Claims. (Cl. 42—3.)



1. In an automatic rifle, in combination, a barrel, a cartridge chamber, means for feeding cartridges into alinement with said chamber, a recoil operated bolt for forcing cartridges into said chamber, yieldable means carried by the bolt for interlocking engagement with said chamber for connecting the chamber to the bolt for retracting the chamber when the bolt is retracted, means for limiting the retraction of the chamber and releasing the same from said bolt whereby said chamber is adapted to move with the bolt through a predetermined retracting distance, and means carried by the chamber and connected to said barrel for returning the chamber to a bullet receiving position.

1,383,967. BLOWER FOR THRESHING-MACHINES AND THE LIKE. WILFRID OUELLETTE, St. Scholastique, Quebec, Canada. Filed Dec. 6, 1919. Serial No. 343,034. 1 Claim. (Cl. 302—37.)



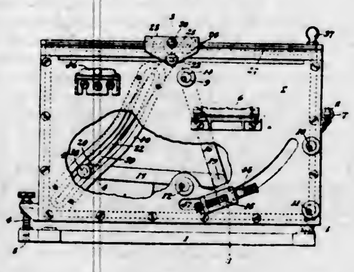
The combination in a device such as described, of a frame including upright and inclined bars, and horisontal bars connected thereto, an angular housing mounted in one side of the frame, a circular housing mounted in the opposite side of the frame, a shaft journaled in the circular housing, a fan carried by the said shaft, said circular housing having an outlet at its upper side, said housings having a communicating opening therebetween, and a closure secured to one side of the angular housing as and for the purposes set forth.

1,383,968. WATCH BELT-BUCKLE. CHARLES PERRY, Jr., and NEIL CURRIE, San Antonio, Tex. Filed Sept. 14, 1920. Serial No. 410,100. 1 Claim. (Cl. 224—4.)



In a belt buckle of the class described, having an open, beveled front side, a watch case having an integral hook hinged to the lower edge of said front face, and a catch integral with the front face of said buckle for engagement with the stem of a watch to keep the same in its closed position.

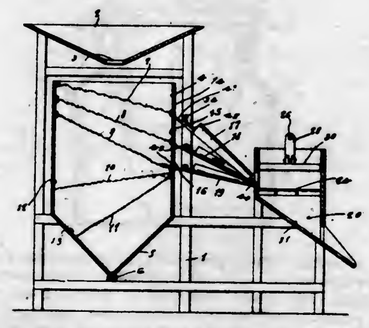
1,383,969. AEROPLANE BOMB-SIGHT. GEORGE ERLE BEGGS, Princeton, N. J. Filed Mar. 29, 1918. Serial No. 225,467. 11 Claims. (Cl. 235—61.)



1. In an aeroplane bomb-sighting mechanism, means for calculating and indicating the angle of fire from preliminary observations, embodying a fixed scale graduated in terms of one element of the required calculation, an associated and relatively movable slide scale graduated in terms of the other elements of such calculation, cooperating means, adjustable relative to such scales, for registering the result of the calculation, adjustable sighting means, and mechanism actuated by said coöperating means for adjusting the sighting means to a line of fire corresponding to the result of such calculation.

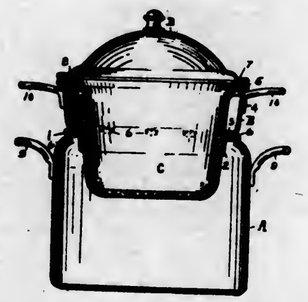
3. In an aeroplane bomb-sighting mechanism, means for calculating and indicating the angle of fire from preliminary observations, embodying a fixed scale graduated in terms of one element of the required calculation, an associated and relatively movable scale graduated in terms of the other elements of such calculation, coöperating means, adjustable relative to such scales, for registering the result of the calculation, adjustable sighting means, and mechanism actuated by said coöperating means for adjusting the sighting means to indicate the result of such calculation.

1,383,970. SEED-POTATO-CUTTING MACHINE. GEORGE A. BENTLEY Marathon, Iowa. Filed Aug. 14, 1917. Serial No. 186,130. 4 Claims. (Cl. 130—32.)



1. A device for sorting and directing selected potatoes to graded cutters, having an oscillatory casing pivotally mounted at its lower end and having lateral outlets, stationary chutes having flexible conveyer elements between their inlet ends and said outlets, and grading screens of graduated mesh arranged at graduated inclination in superposed relations in the casing and respectively in communication with said outlets.

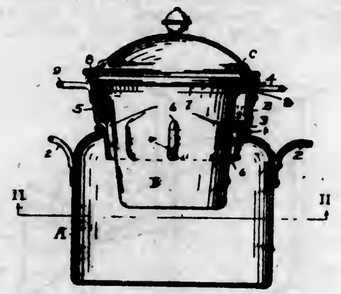
1,383,971. COOKING UTENSIL. HENRY C. BIETTE, Pittsburgh, Pa., assignor of one-half to J. Audley Pierce and one-sixth to J. Scott Jamison, McKeesport, Pa. Filed Sept. 11, 1920. Serial No. 409,623. 2 Claims. (Cl. 53—2.)



2. A cooking utensil comprising an outer vessel, a steam ring provided intermediate of its height with a circumferential shoulder whereby said steam ring may be mounted on said outer vessel with its portion below said shoul-

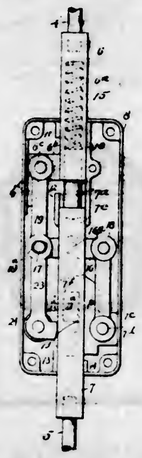
der depending within said outer vessel and its portion above said shoulder extending above said outer vessel, said lower portion being contracted, an inner vessel supported by the engagement of its side wall intermediate of its height with the contracted lower portion of said steam ring whereby an annular chamber is formed between said steam ring and said inner vessel, said steam ring being provided within said outer vessel with ports whereby steam is admitted to said chamber from said outer vessel, and a lid for said utensil fitting on top of said steam ring and provided with a depending annular portion interposed between said ring and said inner vessel.

1,383,972. COOKING UTENSIL. HENRY C. BIETTE, Pittsburgh, Pa., assignor of two-thirds to J. Audley Pierce, McKeesport, Pa. Filed Nov. 12, 1920. Serial No. 423,257. 2 Claims. (Cl. 53—1.)



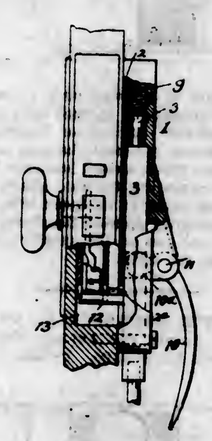
1. A cooking utensil comprising an outer vessel adapted to contain water, a steam ring mounted on said outer vessel, an inner vessel suspended by means of said steam ring partially within said outer vessel, passages being provided between said ring and said inner vessel whereby the steam will ascend from said outer vessel in direct contact with the wall of said inner vessel and means for inclosing the tops of said steam ring and said inner vessel from atmosphere and from each other.

1,383,973. EMERGENCY-DOOR-LOCK-OPERATING MECHANISM. WILLIAM BERTRAM BOLLES, Milwaukee, Wis. Filed Sept. 30, 1918. Serial No. 256,234. 11 Claims. (Cl. 292—21.)



1. The combination with a door and a locking bolt therefor, of a pair of oppositely disposed members mounted to slide upon the door, one of said members being connected with the locking bolt, one of said members being formed with a recess, the other of said members being formed with a projection adapted to slide in said recess, a spring in said recess engaging the said projection, an operating lever pivoted upon the door, and operating connections between the said lever and one of the sliding members.

1,383,974. OPERATING MECHANISM FOR EXIT-DOORS. WILLIAM B. BOLLES, Milwaukee, Wis. Filed Sept. 30, 1918. Serial No. 256,235. 7 Claims. (Cl. 292—21.)

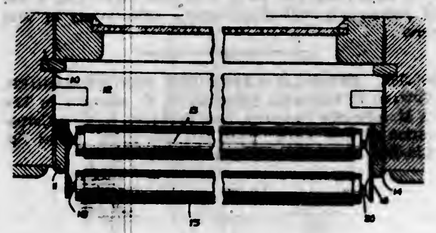


1. In a device of the character described, a casing, a member within the casing provided with a recessed opening, a spring in said opening, wall members associated with the casing, a sliding member coöperating with said wall members, said sliding member having a projecting portion which extends into said opening and coöperates with the spring therein, a lever pivoted upon the casing and having operative connection with the sliding member, a lock operating member connected with the sliding member.

7. In a device of the character described, the combination with a casing, a part within said casing having an opening, a spring within said opening, a slidable member within the casing, said slidable member being provided with an extension which coöperates with said opening and the spring therein, said sliding member being provided with an opening and also a recess adjacent the opening, a lever pivoted at its central portion within the casing, a link connecting one end of said lever with the said sliding member, a second link connected with the opposite end of said pivoted lever, means for guiding said second link as it moves, a member extending within the recess formed in the sliding member, said member being connected with the second mentioned link, an operating lever pivoted upon the casing, having a part which extends on the outside of the casing, said operating lever having a part which coöperates with the opening in the sliding member and is positioned adjacent the member extending within the recess of the sliding member for the purpose described.

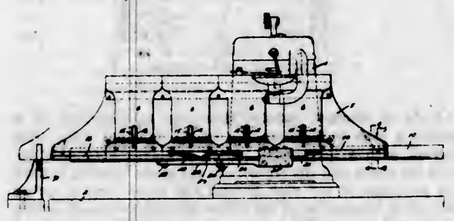
1,383,975. SHADE-BRACKET. WILLIAM HORACE BOOTH, New York, N. Y. Filed Nov. 22, 1920. Serial No. 425,847. 1 Claim. (Cl. 156—24.)

A shade bracket including a U shaped body portion adapted to embrace a side strip, said body being formed with a cutout portion whereby to provide a substantially straight tab, said tab being in line with and forming a rearwardly extending continuation of one of said arms, and means adjacent the outer ends of both said tab and



the arm of said U shaped body portion with which said tab alines, for permitting the association therewith of one of the ends of a shade roller.

1,383,976. SEWING-MACHINE. ARTHUR A. BOUTON, Brooklyn, N. Y. Filed Mar. 9, 1920. Serial No. 364,372. 4 Claims. (Cl. 112—19.)



1. In a sewing machine, the combination of a work supporting carriage, a track on which said carriage is adapted to travel to present the work supported thereby to the sewing mechanism of the machine, said track comprising a horizontally disposed base provided at its inner edge with an upstanding vertical flange mounted intermediate its ends to the sewing machine with the flange disposed toward the same, a shoe on the carriage adapted to rest upon the horizontal base for longitudinal movement thereon, tension means for normally maintaining the inner side of the shoe against the flange for guiding the same on the track, said means comprising an arm pivoted to the underside of the horizontal base, a clip secured to the free end thereof and adapted to engage the outer side of the shoe, and means for yieldably drawing the arm toward the upstanding flange as and for the purpose specified.

1,383,977. ELECTRIC CLIPPER. LEVI M. BOWMAN, Tulsa, Okla., assignor of one-half to William A. Smith, one-fourth to L. N. Butts, and one-fourth to George S. Berry, Tulsa, Okla. Filed July 8, 1919. Serial No. 309,323. 1 Claim. (Cl. 30—1.)

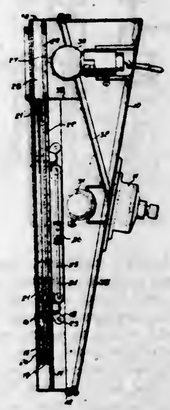
In a device of the class described, an insulated hollow handle having a tapered socket formed thereon and opening toward one end of said handle, a stationary tool member, a tapered supporting member including a curved portion and a straight portion removably engaged in said tapered socket, means for securing said straight portion within said socket, a movable tool member mounted on said stationary tool member, an arm carried by said movable tool member and having a transversely extended portion with a turned free end, a movable operating

means projecting from said handle and directed toward and spaced from the turned end of said arm, and resilient



connections between said turned end of said arm and the said operating member.

1,383,978. LICENSE-PLATE HOLDER. HENRY BREWSTER, New York, N. Y. Filed Jan. 31, 1921. Serial No. 441,427. 2 Claims. (Cl. 40—132.)

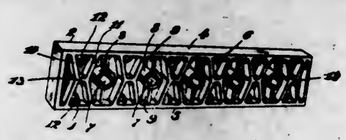


1. A plate holder, including a housing formed with an open face, a source of light within said housing, a reflector for said source of light, said reflector including a plate arranged at an angle between the outer upper edge of said housing and the rear wall of the same, the rear of said housing below and adjacent to the point of contact of said plate with the same, being inclined outwardly to form a second reflecting surface.

1,383,979. PARALLEL FOR MACHINE-TOOLS AND THE LIKE. ELMER J. BRYANT, Woonsocket, R. I., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I., a Corporation of Rhode Island. Filed June 16, 1920. Serial No. 389,361. 14 Claims. (Cl. 90—59.)

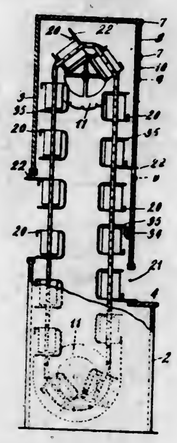
1. As an article of manufacture, an integral piece of metal comprising a parallel for machine tools and the like having a pair of edge members, said edge members being provided with parallel surfaces, a central web connecting said members, a plurality of transverse webs triangularly

arranged on each side of the transverse center line of said central web, said transverse webs being integral with said side members and said central web, a plurality of beads extending between said webs, bolt wells formed ad-



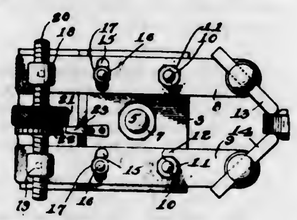
jacent said beads, and reinforcing brackets between said side members and said central web and intermediate said transverse webs, with the edges of said transverse webs, said bolt wells, and said members on the same side of the device being co-planar.

1,383,980. STORE FURNITURE. WILLIAM MIDGLEY CAMPBELL, Hot Springs, Ark. Filed Aug. 12, 1920. Serial No. 403,032. 4 Claims. (Cl. 211—21.)



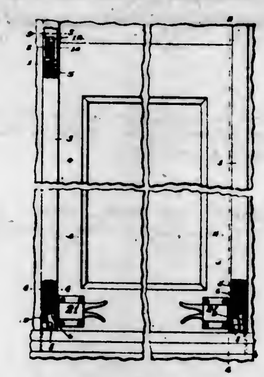
1. An article of store furniture, comprising a cabinet subdivided into rows of compartments, said cabinet having delivery outlets connecting with said compartments; independent endless conveyers operable in the compartments, each having a series of article receivers or holders adapted to successively register with one of said outlets, means for manually imparting movement to the conveyers, said means comprising handle members attached to each conveyer, locking bolts projected across the path of movement of said handles, and means for releasing said bolts.

1,383,981. LATHE-TOOL HOLDER. WILLIAM LYLE CATLIN, Chattanooga, Tenn. Filed Sept. 2, 1919. Serial No. 321,128. 4 Claims. (Cl. 82—36.)



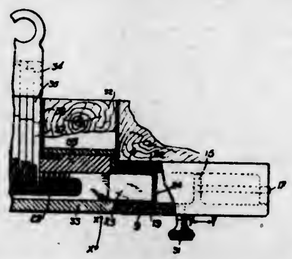
1. A lathe tool holder comprising a base plate, a plurality of levers having their intermediate portions pivotally mounted on said base plate, a tool carried at one end of each lever, a threaded member connecting the opposite ends of said levers, a single hand engaging member mounted on the threaded member for causing movement of the tools toward or away from each other, and a dial and pointer for indicating various adjustments of said levers.

1,383,982. SPRING-BALANCE FOR WINDOW-SASHES. EDWARD F. CHAFFEE, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 27, 1916. Serial No. 128,036. 2 Claims. (Cl. 16—115.)



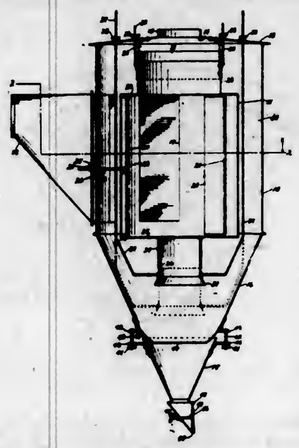
1. In a window construction, the combination of a frame, a sash movable in the frame, window stops each formed with a lengthwise recess, the sash extending behind the stops and the recesses of the stops opening toward the portions of the sash behind the stops, and a spring extending lengthwise of the recess of each stop, and acting at one end against the window frame and at its other end against the sash, substantially as and for the purpose described.

1,383,983. SPRING SLIDE DOOR-JAMB OR LATCH. FRANCISCO CLARK, Durango, Mexico. Filed June 26, 1919, Serial No. 306,784. Renewed Dec. 24, 1920. Serial No. 433,051. 7 Claims. (Cl. 70—15.)



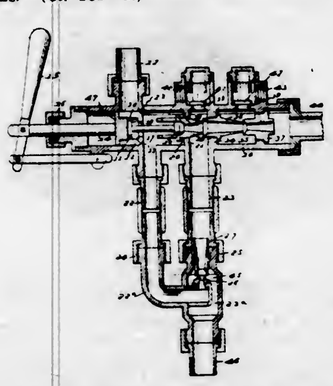
1. The herein described jamb lock device comprising a casing open at one end and one side, a lock bolt keeper slidable longitudinally of the casing and adapted in one position to close the open side thereof, means carried by the two casing sides adjacent to the keeper to confine the keeper in the position indicated, means acting upon the keeper tending to hold it in the position for closing said open side of the casing, and a member acting automatically to hold the keeper in an open position against the force of said closing means.

1,383,984. ADJUSTABLE AIR-SEPARATOR. WILLIAM G. CLARK, Chicago, Ill. Filed Nov. 16, 1920. Serial No. 424,373. 8 Claims. (Cl. 183—5.)



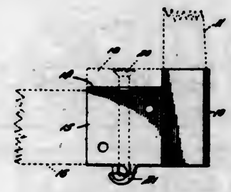
1. An air separator comprising, in combination, an outer drum having an outlet in substantially the center of its upper end, an inner drum, means for introducing dust laden air tangentially into said inner drum, an inwardly deflected member in the periphery of the inner drum providing a gap communicating with the space between the drums facing the currents of air from said inlet, an outlet pipe projecting from the upper end of said inner drum terminating short of the end of the outer drum adjacent its outlet whereby a gap is provided placing the space between the drums in communication with said outlet.

1,383,985. INJECTOR. PERCY J. CRIMSEY, Cabin Creek, W. Va. Filed June 7, 1920. Serial No. 387,103. 7 Claims. (Cl. 162—1.)



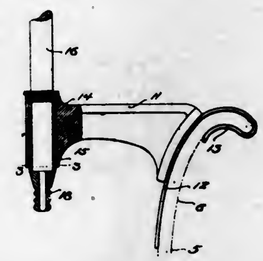
1. An injector having a pressure chamber and a suction chamber, an injector nozzle connecting the said chambers, pressure and suction tubes respectively in communication with said chambers, the pressure tube being provided with a suction nozzle discharging axially into the suction tube, an overflow port in communication with the suction chamber and having an inwardly seating valve, a pressure valve for controlling the communication of steam to the pressure chamber, and an injector valve seated in the injector nozzle to connect with the pressure valve for actuation thereby, the former being capable of unseating movement independently of the latter.

1,383,986. STAKE-HOLDING DEVICE. THOMAS F. CULLINAN, Providence, R. I. Filed Dec. 22, 1920. Serial No. 432,422. 2 Claims. (Cl. 296—43.)



1. A stake holder comprising a vertically-disposed stake receiving tubular socket member having a horizontally disposed laterally-extending flange located adjacent its upper end, a vertically-disposed flange positioned to cooperate with said horizontal flange and by which the device may be securely bolted to the frame of a vehicle, and a hook formed on the lower edge of said device for engaging a load-binding rope.

1,383,987. SHOWER-BATH DEVICE. GENNARO DE BELLIS, Philadelphia, Pa. Filed Nov. 17, 1921. Serial No. 338,609. Renewed May 17, 1921. Serial No. 470,324. 3 Claims. (Cl. 4—26.)

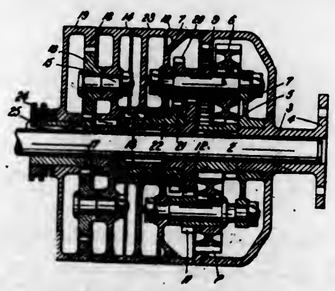


1. A shower device of the character described including a supported arm having an upright hole; and an upright shower pipe including a portion adapted to freely slide downwardly into said hole, said hole and portion of the pipe having parts adapted to prevent rotation therebetween, said pipe having a hose connecting nipple whereby a hose can be connected to said nipple and to a faucet, and the nipple and pipe can be freely lifted upwardly out of said hole when it is desired to detach the pipe from the bracket, said pipe having a part for limiting the downward movement of said portion of the pipe in said hole; substantially as described.

1,383,988. VARIABLE VELOCITY-RATIO GEARING. EDGAR JOSEPH DE NORMANVILLE, London, England. Filed May 14, 1921. Serial No. 469,683. 5 Claims. (Cl. 74—34.)

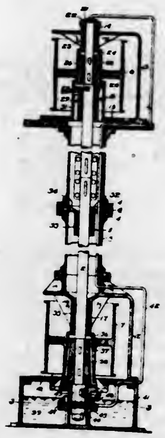
1. Variable velocity ratio gearing for transmitting motion from a driving shaft to a driven member, comprising in combination, primary and secondary planet wheels mounted on the same frame and in gear one with the other, a sun wheel fast on the driving shaft and in gear with the primary planet wheel, an internally toothed wheel fast with the driven member and in gear with the secondary planet wheel, a sleeve rotatably mounted on the driving shaft, a second sun wheel fast on this sleeve and geared to the secondary planet wheel, a controlling planet wheel carried by the said sleeve, a brake drum,

an internally toothed wheel carried by the brake drum, and a third sun wheel fast on the driving shaft, the in-



ternally toothed wheel carried by the brake drum and the third sun wheel both being in gear with the said controlling planet wheel.

1,383,989. SYSTEM OF VERTICAL-TRANSMISSION-SHAFT CONSTRUCTION AND MEANS FOR LUBRICATING THE SAME. WILLIAM A. DOBLE, San Francisco, Calif., assignor to The Pelton Water Wheel Company, San Francisco, Calif., a Corporation of California. Filed Jan. 9, 1917. Serial No. 141,399. 11 Claims. (Cl. 64—56.)

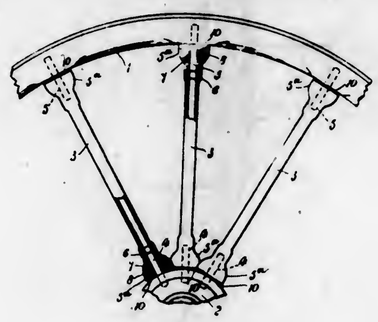


1. In vertical transmission shaft construction, a transmission shaft, a tubular housing surrounding and inclosing the shaft, guide bearings for said shaft carried by said housing and means operated by said shaft for introducing lubricating oil into the tubular housing above the upper guide bearing.

1,383,990. MANUFACTURE OF ACID SODIUM PYROPHOSPHATE. ANDREW KELLY, London, England. Filed Jan. 22, 1921. Serial No. 439,269. 3 Claims. (Cl. 23—13.)

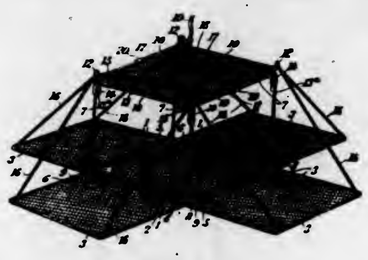
1. The method of manufacturing an acid sodium pyrophosphate which comprises adding to sodium pyrophosphate an acid capable of converting same into acid sodium pyrophosphate, and precipitating said acid sodium pyrophosphate by salting out.

1,383,991. VEHICLE-WHEEL. EDWARD KEMP, Toronto, Ontario, Canada, assignor of one-third to George Whitaker Morley, Toronto, Ontario, Canada. Filed May 17, 1919. Serial No. 297,845. 8 Claims. (Cl. 301—67.)



1. In a wheel, a spoke, a radially slidable connection between the end of said spoke and the contiguous part of said wheel, a cushion compartment at the end of said spoke, a resilient cushion within said compartment, and a slidable closure for said compartment, said closure and said cushion being compressively located between the walls of said compartment and the contiguous part of said wheel.

1,383,992. COLLAPSIBLE TRAP. JOHN F. MASEK, New York, N. Y.; Karolina Masek, administratrix of said John F. Masek, deceased, assignor to Joseph Holoubek, New York, N. Y. Filed Oct. 15, 1920. Serial No. 417,149. 5 Claims. (Cl. 43—105.)



1. A trap comprising rectangular top and bottom members, four rectangular side members hinged to the edges of the bottom member, a pair of balls having downwardly extending side arms hinged at their lower ends to opposite edges of the bottom member, a pair of reach-rods for separably connecting the balls to each other at points above the bottom member hinged to opposite edges of the top member and having laterally bent end portions, and means rigidly held to the balls provided with apertures for receiving the laterally bent end portions of the reach-rods.

1,383,993. NAIL-STRIP HOLDER. ELI J. MILLER, York, Pa. Filed Oct. 18, 1920. Serial No. 417,713. 6 Claims. (Cl. 206—56.)

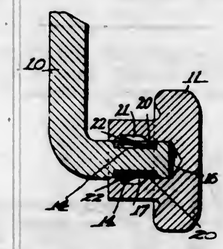
1. In a nail-strip holder, in combination, a box for holding a spool, a rigid spindle on which the spool may turn, a disk to which the spool may be attached about the

lower end of the spindle, a disk and friction spring about the upper part of the spindle, there being a mouth where



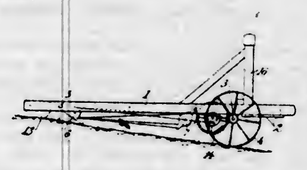
discharging of a strip wound on a spool may occur, and means about said mouth for directing the strip.

1,383,994. CRANK-HANDLE. ROBERT C. OLSON, Worcester, Mass. Filed Feb. 24, 1920. Serial No. 360,698. 6 Claims. (Cl. 287—91.)



1. The combination with a crank having a handle end having a transverse slot in its wall, of a handle grip having a cylindrical passage for said handle end and provided with a groove in the wall of said passage, and a plate adapted to lie in said slot, and a yielding tongue projecting therefrom into said groove and extending toward the body of the crank.

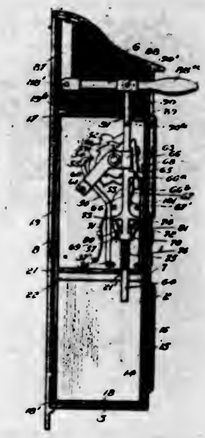
1,383,995. STUMP-PULLING MECHANISM. WELI KAARLO ARMAS PALOHEIMO, Helsingfors, Finland. Filed Apr. 9, 1920. Serial No. 372,639. 4 Claims. (Cl. 254—145.)



1. In a machine for pulling tree stumps, the combination of a beam, one end of which is adapted to be connected to a tree stump, and the other end of which is adapted to rest on the ground; and means to move the end of the beam, comprising a windlass mounted on said beam.

1,383,996. VENDING-MACHINE. LAYTON M. PARKHURST, Indianapolis, Ind., assignor, by mesne assignments, to George B. Pitts, trustee, Cleveland, Ohio. Filed Mar. 31, 1908, Serial No. 424,304. Renewed July 23, 1915. Serial No. 41,617. 32 Claims. (Cl. 194—57.)

1. The combination of a support having a coin chute, a movable member, means for locking said member against movement, a movable device normally projecting into the coin chute and serving as an arrester therein for a coin,



said device having operative engagement with and bodily movable laterally to actuate said locking means, and means for moving a coin past said device.

1,383,997. PUMP FOR DELIVERING LIQUID. EDWARD LLOYD PEASE, Darlington, England. Filed Aug. 23, 1920. Serial No. 405,419. 9 Claims. (Cl. 103—67.)

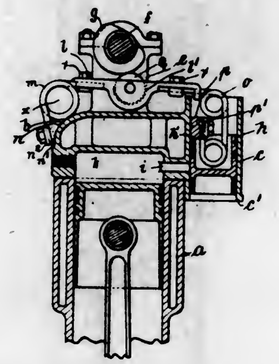


1. A pump comprising a stationary casing having a peripheral inlet and a peripheral outlet, a body adapted to be turned in said casing and having a diametrical passageway adapted to communicate with said inlet and outlet and a plunger, adapted to travel along the passageway and of less than half the length of such passageway so that during such passage it passes bodily well beyond the center of rotation of the rotary body, thereby forming a pocket for the reception of liquid that has a capacity greater than the volume represented by the plunger, substantially as described.

1,383,998. VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. CHARLES WILLIAM PRADEAU, London, England. Filed Feb. 8, 1921. Serial No. 443,447. 4 Claims. (Cl. 123—90.)

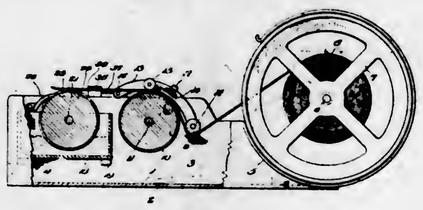
1. In combination with a cylinder and a valve of an internal combustion engine, a floating member, a spring connecting the said member to the cylinder, a second spring connecting the said member to the valve, the first

named spring serving to move the floating member and the valve in one direction, and positively driven means to



move said floating member and said valve in the reverse direction.

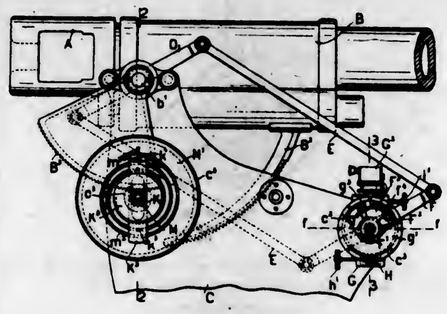
1,383,999. TAPE MOISTENING AND DELIVERY APPARATUS. WILLIAM D. ROBERTSON and STANLEY SAVAGE, Seattle, Wash., assignors to S-R Mfg. Co., Seattle, Wash., a Corporation of Washington. Filed May 29, 1920. Serial No. 385,211. 11 Claims. (Cl. 91—14.5.)



1. In a moistening apparatus for tape and the like, a supply reel for the tape, a delivery roll by which the tape is fed, a moistening roll for applying moisture to one surface of the tape, and means for operating said rolls to insure a predetermined movement of the moistening roll prior to any movement of the delivery roll, whereby said predetermined movement of the moistening roll causes a moistened surface of the roll to be presented to the tape, so that the entire length of tape delivered is moistened.

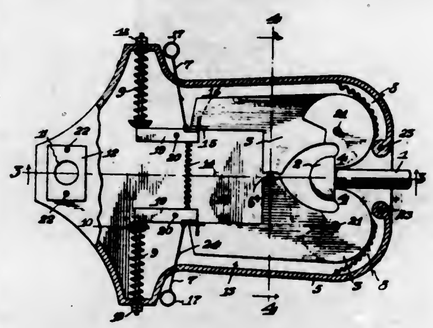
1,384,000. POINTING DEVICE FOR ORDNANCE. RICHARD SCHÜMANN and LEOPOLD SCHMIDT, Essen, Germany, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 7, 1920. Serial No. 408,746. 10 Claims. (Cl. 89—41.)

1. A pointing device for guns comprising a range device, a pair of adjusting members rotatable independently of each other about the same axis, means connecting said range device to one of said adjusting members, said connecting means moving said adjusting member through a greater angle than the angle of rotation of the range device, means connecting the second adjusting member to the gun, said means moving the second adjusting member through an angle greater than the angle of rotation of the



gun part appertaining thereto, the ratio of rotation of said adjusting members being the same, substantially as and for the purpose described.

1,384,001. COUPLING AND RELEASING DEVICE. ALBERT H. SPLITTSTOESSER, Kulm, N. D. Filed Jan. 11, 1921. Serial No. 436,561. 4 Claims. (Cl. 213—67.)

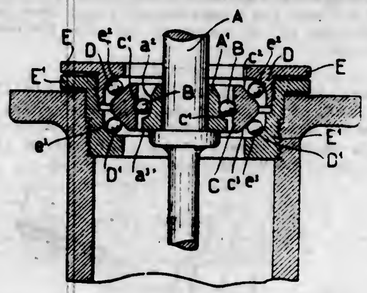


1. A coupling and releasing device comprising a casing adapted for connection to some pulling device, within said casing two pivoted lever pieces adapted for holding and releasing a coupling pin, a coupling pin adapted to be held by said lever pieces, two pivoted lock pieces frictionally engaging said lever pieces, two bolts with one end of each fitted against said lock pieces respectively and the other end slidably attached to said casing, two spiral springs one each surrounding said bolts capable of resisting to a fixed stress the operation of said lever pieces and said lock pieces, another spiral spring connecting said lock pieces to hold same in position, and means for holding said parts in operating position, substantially as described.

1,384,002. BALL-BEARING. HERMANN SUNDHAUSSEN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 8, 1920. Serial No. 408,087. 2 Claims. (Cl. 64—58.)

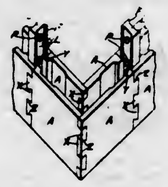
1. In a ball bearing, the combination with an inner member having an external bearing surface and an outer member having an internal bearing surface, of an intermediate ring having internal and external bearing surfaces coacting with the first mentioned bearing surfaces

respectively, and balls interposed between each pair of coacting bearing surfaces, one of said bearing surfaces being cylindrical to permit relative axial movement of



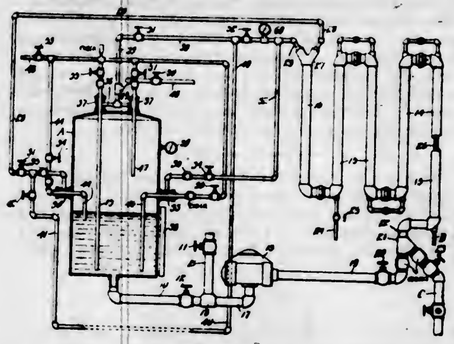
the inner and outer members, and another of said bearing surfaces being longitudinally curved to permit relative angular movement of said members.

1,384,003. CONCRETE AND LIKE BUILDING CONSTRUCTION. HENRY THOMPSON and STANLEY H. THOMPSON, Malvern, Melbourne, Victoria, Australia. Filed Apr. 26, 1921. Serial No. 464,681. 4 Claims. (Cl. 72—38.)



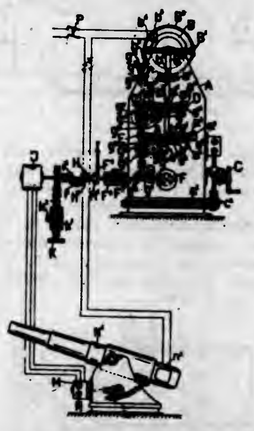
2. A building slab formed at each end with complementary interlocking edge portions, whereby it may interlock with the meeting ends of adjacent slabs, said slab being further formed on the inner surface adjacent the respective ends with thickened portions shaped to provide half dove-tail grooves.

1,384,004. OIL-VAPORIZER. JOHN J. WEITHAUS, North Vernon, Ind., assignor of one-half to Michael C. Ainsberry, Rushville, Ind. Filed May 3, 1919. Serial No. 294,438. 4 Claims. (Cl. 48—107.)



1. In an oil vaporising apparatus, the combination of a tank, a heating coil, a source of oil supply leading to the tank, a pipe leading from the tank to the heating coil, an air supply connecting with the oil supply at a point adjacent to its connection with the heating coil, pipes leading from the heating coil back to the tank at points above the normal oil level therein, a service pipe connected with the upper portion of said tank, air supply pipes connected with said tank, and a pump for forcing the oil and air under pressure through the heating coil and into the tank, substantially as set forth.

1,384,005. FIRE-DIRECTION APPARATUS FOR NAVAL GUNS. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Oct. 23, 1920. Serial No. 419,127. 9 Claims. (Cl. 89—41.)



2. A fire control apparatus for naval guns comprising in combination with an adjustable gun barrel, a transmitter forming part of a distance electrical control device, a receiver positioned at said gun, means operatively connecting said transmitter to said receiver, means including a range device for adjusting said transmitter and means operatively connected to said transmitter for measuring the angle of roll and for imparting an additional adjustment to the transmitter corresponding to this angle of roll, substantially as described.

1,384,006. TIE AND RAIL-FASTENER. GEORGE H. ANTHONY, Sykesville, Pa. Filed Apr. 20, 1921. Serial No. 462,850. 8 Claims. (Cl. 238—46.)

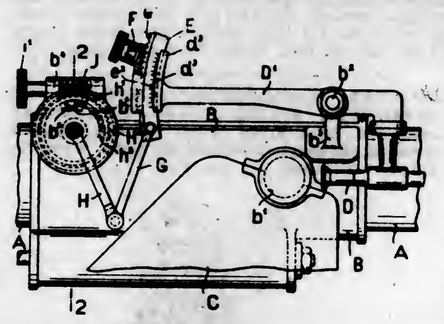


2. In a device of the character and for the purpose indicated, a tie having a pocket, a rail, and gravity actuated fasteners mounted in the pocket, one operating the other, to securely grip the rail and forcing the same toward the tie.

1,384,007. SIGHTING DEVICE FOR ORDNANCE. MAX BARTHOLDT, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,099. 5 Claims. (Cl. 33—48.)

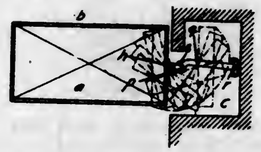
1. A device of the class described comprising a sighting means, a carrier for said sighting means, a device for indicating the range, which embodies a casing and a rotatable member, with means for rotating said member, one end of the sighting means carrier terminating in a

sector-shaped guide, a slidable member mounted in said guide, means for varying the position of the slidable member in said guide, arms operatively connecting said



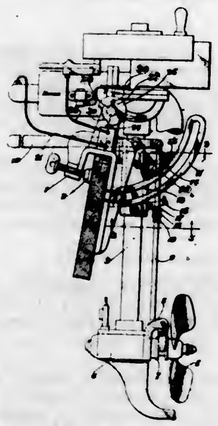
slidable member and rotatable member, said parts being arranged to form a kinematic quadrilateral system, substantially as and for the purpose set forth.

1,384,008. BED-MOUNTING. HOMER G. BISHOP, Oakland, Calif., assignor to American Automatic Lock & Lift Company, San Francisco, Calif., a Corporation of California. Filed Feb. 15, 1918. Serial No. 217,388. 1 Claim. (Cl. 5—18.)



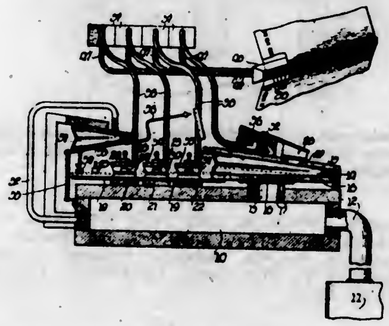
A folding bed having a head structure wider when upended for concealment than the opening through which it is passed, a partially rotatable vertical member suspended from a horizontally slidable member, means supporting said slidable member from the ceiling and a plurality of devices compelling the coincident rotation and horizontal movement of the bed.

1,384,009. MOTOR. RALPH W. BOSCHERT, St. Louis, Mo. Filed Nov. 24, 1919. Serial No. 340,248. 9 Claims. (Cl. 115—17.)



7. The combination with a motor, of a bracket, a pivot connecting the bracket and the motor, an arcuate arm having its center of curvature at the axis of the pivot, ratchet teeth on the upper side of said arm, a sleeve supported by the motor, a pawl carried by said sleeve for engaging the ratchet teeth, ratchet teeth on the lower side of said arm, and a pawl carried by said sleeve movable into and out of engagement with the last-named ratchet teeth.

1,384,010. EXPRESSION DEVICE FOR AUTOMATIC PLAYERS. FRANK J. CLARK, Milwaukee, Wis., assignor to Clark Pneumatic Action Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 18, 1919. Serial No. 331,589. 34 Claims. (Cl. 84—42.)



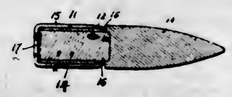
1. An expression device for pneumatic players including a vacuum system having an air inlet, a valve mechanism for controlling the admission of air through said inlet and influenced by the tension in said system toward open position, and stops for selectively limiting the opening movement of said valve mechanism to any desired degree to vary the tension in said system.

16. In a device of the character described the combination of a vacuum chamber, a valve mechanism actuated by the air tension in said chamber for admitting atmospheric air to said chamber, at least one stop for limiting the opening movement of said valve mechanism, and a pneumatic for moving said stop.

20. In a device of the character described the combination of a vacuum system having an air inlet, a valve for controlling the admission of air through said inlet, a pneumatic in constant communication with said system and influenced by the air tension therein to actuate said valve toward open position, and means for controlling the opening movement of said valve to any desired degree.

26. An expression device for pneumatic players including a vacuum chamber having an atmospheric air inlet, a single pneumatic having means coöperating with said inlet to control the admission of atmospheric air to said chamber, a communication between said pneumatic and chamber, whereby said pneumatic is actuated in one direction by the air tension in said chamber, and means for admitting atmospheric air to said pneumatic to actuate said pneumatic in another direction.

1,384,011. ARMOR-PIERCING TRACING-BULLET. WALLACE L. CLAY and JOHN C. BEATTY, U. S. Army, and DICKERSON G. BAKER, Greenfield, Mass. Filed May 2, 1919. Serial No. 294,278. 3 Claims. (Cl. 102—29.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



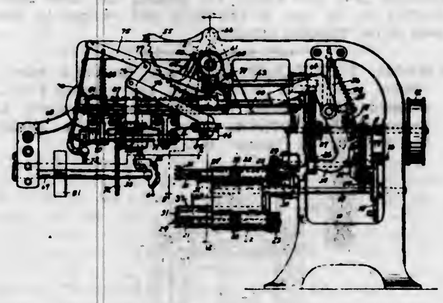
1. A tracer projectile including a body having an armor piercing forward portion and a reduced rear portion, the reduced portion having a rearwardly opening recess con-

taining a substance for producing a visible vapor and a flash of light, and a cap engaging over the reduced portion and having an aperture through which the vapor and flash producing substance is ignitible.

1,384,012. PEAT FUEL. SAMUEL CLELAND DAVIDSON, Belfast, Ireland. Filed Feb. 7, 1920. Serial No. 357,028. 2 Claims. (Cl. 44—32.)

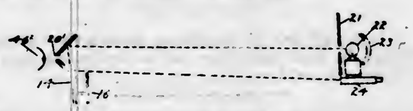
1. The process of preparing fuel from peat, which consists in stirring wet peat as obtained directly from the bog into an approximately putty-like consistency, gradually adding powdered pitch and powdered dry peat thereto, during the continuance of the said treatment, continuing the stirring treatment until the three materials are blended together to form a homogeneous mass, and pressing the same into blocks.

1,384,013. APPLE PARING, CORING, AND SLICING MACHINE. WILLIAM EHRLICH, Chicago, Ill. Filed May 29, 1920. Serial No. 385,192. 8 Claims. (Cl. 146—6.)



1. The combination with an apple paring and coring machine having a rod therein mounted for longitudinal movements, of coring and slicing knives fixed on said rod; a holding member mounted for movement adjacent said rod for holding an apple against the slicing knife; and means for moving the holding member laterally away from the rod.

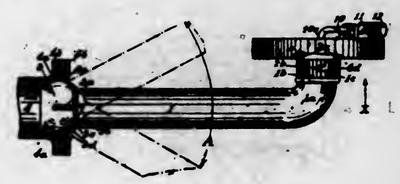
1,384,014. METHOD AND APPARATUS FOR SIGNALING AND OTHERWISE UTILIZING RADIANT IMPULSES. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Jan. 14, 1918. Serial No. 211,758. 1 Claim. (Cl. 250—1.)



Means for signaling by radiant impulses comprising a tetrahedron having three adjoining faces at right angles to each other and a surface in proximity to said tetrahedron whereby the incidence of radiant energy on said tetrahedron may be determined.

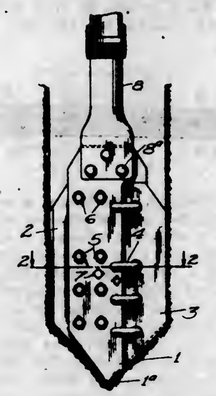
1,384,015. TONE-ARM FOR PHONOGRAPHS. WILLIAM FRICK, New York, N. Y., assignor to Cliff Manufacturing Works, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 30, 1919. Serial No. 334,576. 5 Claims. (Cl. 274—23.)

1. In a phonograph, a support holding a sound conveying tube, a spherical shaped member having guide-forming grooves in its surface at one end and a reproducer at the other end of said tube, a stationary pin on said



support slidably engaged by said guides forming means to restrict the oscilatory motion of said tube and to permit a rotative motion thereof about its axis.

1,384,016. ROTARY WELL-REAMER. WALTER J. FULKERSON, San Diego, and GEORGE H. YAHRAUS, Los Angeles, Calif.; said Fulkerson assignor to said Yahraus. Filed Mar. 30, 1920. Serial No. 369,887. 6 Claims. (Cl. 255—76.)

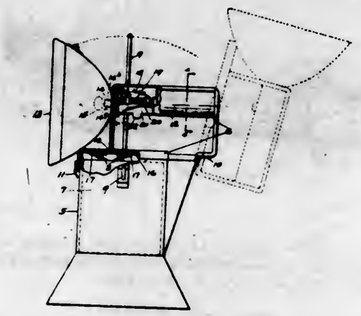


1. A rotary well reamer, including a main supporting plate provided with a tapering end, a pair of reaming plates pivotally mounted on opposite sides of said plate in such position that when they are swung outwardly they extend past the edge of said main plate and adjustable means mounted on opposite sides of said plate for regulating and controlling the folding of said reaming plates against the main supporting plate.

1,384,017. ELECTRIC LANTERN. JOHN HAACK, Portland, Oreg. Filed May 10, 1920. Serial No. 380,223. 3 Claims. (Cl. 240—8.5.)

1. In an electric lantern a hinged cover, having in combination therein, an incandescent lamp, a rigidly secured, downwardly facing disk, having two circular insulated terminals therein, one of which is connected with one terminal of the lamp, and a circuit bar having one terminal connected with the opposing terminal of the lamp, its other terminal connected with the opposing terminal of the aforesaid disk, also a closing arm extending from the last mentioned bar terminal downwardly, and a movable finger block, arranged in a manner to allow it to slide

below the arm and press its free end into contact with the opposing bar terminal and thus retain it, also to allow



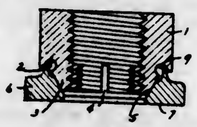
the block to be lifted vertically to cause its free end to engage the opposing bar terminal while held in such position.

1,384,018. ELECTRODEPOSITION OF NON-METALLIC BODIES. LODEWYCK HOORNBEEK, Newark, N. J., assignor to John J. Fields, 3d, New York, N. Y. Filed Sept. 8, 1917. Serial No. 190,316. 1 Claim. (Cl. 204—8.)



As a new article of manufacture, a non-metallic base, an electric conductor, and an adhesive means for causing said conductor to adhere to a surface of said base, anchoring devices connected with said base, each anchoring device comprising a bifurcated shank adapted to be driven into and anchored in said base and an anchoring enlargement extending beyond the surface of said conductor, and a coating of electrically deposited metal upon the face of said conductor, said anchoring enlargements being entirely embedded in and beneath the exposed surface of said electrolytically deposited metal which attaches itself to and adheres to said anchoring enlargements.

1,384,019. COMBINED WASHER AND LOCK-NUT. CHARLES F. JOHNSTON and GEORGE G. REES, San Francisco, Calif. Filed Jan. 26, 1920. Serial No. 354,005. 1 Claim. (Cl. 151—19.)



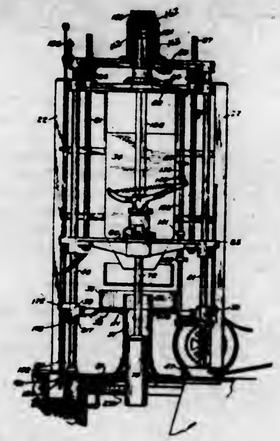
A locking nut and washer comprising a polygonal periphery on the said nut and a conical projecting flange split parallel with the axis, the nut threaded axially and recessed between said conical surface and said polygonal surface, and provided with an overhanging edge bounding said recess; in combination with a washer having a conical recess adapted to compress the conical surface of the said nut and a flange to engage the recess in the nut and compress over said edge when the nut and washer are pressed together.

1,384,020. CHUCK. FRIEDRICH WILHELM KUPER, Gera, Reuss, Germany. Filed June 28, 1920. Serial No. 392,422. 8 Claims. (Cl. 279—60.)



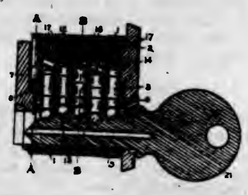
1. In a self-acting chuck the combination of a threaded spindle screwing into the body-portion of the chuck, with gripping jaws and means for guiding the jaws horizontally by the body of the chuck and inclined by the head of the threaded spindle.

1,384,021. PIPE-MAKING MACHINE. GEORGE J. OLSEN, Colton, and FRANK WATERFIELD, Los Angeles, Calif., assignors to California Portland Cement Company, a Corporation of California. Filed Mar. 1, 1920. Serial No. 362,610. 18 Claims. (Cl. 25—36.)



1. In a pipe making machine, a mold, a core movable through the mold, and means for lubricating the core as it enters the mold.

1,384,022. LOCK. FRANK ELLISON BEST, Seattle, Wash. Filed Aug. 28, 1919. Serial No. 320,521. 25 Claims. (Cl. 70—47.)



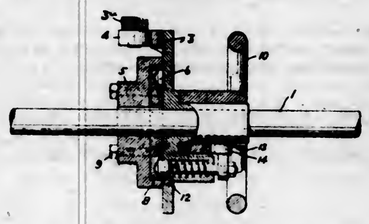
2. In a lock, the combination with the lock case, of a core therein, locking mechanism in said core to lock said

mechanism to said case, a key for operating said mechanism to release and withdraw said core and mechanism as a unit from said case.

1,384,023. ACID-RESISTING RECEPTACLE. HERMANN EVERKEN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,374. 1 Claim. (Cl. 206—2.)

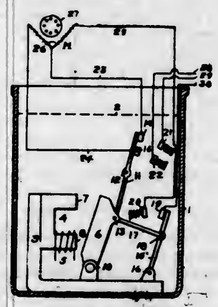
An acid resisting receptacle having an inner wall of acid resisting iron, an outer wall separated from the inner and a filling of cast lead between said walls.

1,384,024. LINOLEUM OR LIKE PRINTING MACHINE. WILLIAM K. HARRIS, Salem, N. J., assignor to Salem Manufacturing Company, Salem, N. J., a Corporation of New Jersey. Filed Sept. 25, 1920. Serial No. 412,753. 4 Claims. (Cl. 101—198.)



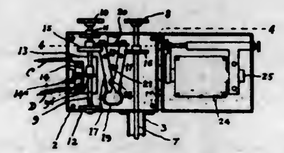
1. In a linoleum or like printing machine the combination of a driven cam-shaft, block-releasing and detaining latch shafts, cams freely revoluble in respect to the cam shaft, and adapted to operate the latch shafts, collars revoluble with the cam shaft and provided with spaced keeper elements, hand-wheels revoluble in respect to the cam shaft, spring bolt elements carried by the hand-wheels and adapted to lock the cams to the collars to be driven thereby, and to the hand wheels to be turned thereby, and cam means on the hand wheels for operating the bolt elements by movement of the hand wheels, substantially as described.

1,384,025. MEANS FOR PROTECTING SWITCH-CONTACTS UNDER OIL. HARRY F. STRATTON, Cleveland, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 12, 1919. Serial No. 337,591. 3 Claims. (Cl. 200—144.)



1. In a circuit controller for multiple conductors, a tank, oil therein, switch-contacts for each conductor, some at least of said contacts being submerged in the oil, and means whereby all the contacts may be closed and whereby some of the submerged contacts close before the remaining contacts close, and whereby some of the submerged contacts may be opened only after the remaining contacts have been opened.

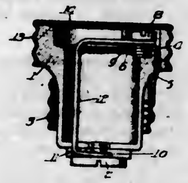
1,384,026. LOCKING DEVICE FOR MOTOR-CARS. WILLIAM DIEFENBARGH, Montpelier, Ind., assignor of one-half to Frank Hedges, Montpelier, Ind. Filed Feb. 19, 1920. Serial No. 359,991. 3 Claims. (Cl. 70—127.)



1. A locking device for motor cars, comprising an electric switch capable of being set at position to open the circuit, a valve in the fuel supply line, a valve mechanism capable of being set at position to maintain the valve closed, a holding means to engage and hold the switch and the valve mechanism at the set positions, a casement to inclose the said holding means, and a lock for the door.

1,384,027. [WITHDRAWN.]

1,384,028. FUSE-PLUG. ERNEST H. BAXTER, Chicago, Ill. Filed Aug. 5, 1916. Serial No. 113,289. 4 Claims. (Cl. 175—277.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



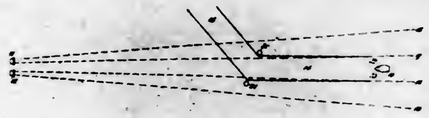
1. A refillable fuse plug of the character described having two connecting terminals each adapted to receive and secure the free end of a fuse adapted to extend from one connecting means to the other, and a gage plate mounted within said fuse plug, said gage plate having a hole therethrough to accommodate a predetermined size of fuse, said gage plate extending across the path of the fuse to prevent access to one of said connecting means except through said hole.

2. A refillable fuse plug of the character described having two connecting terminals each adapted to receive and secure the free end of a fuse adapted to extend from one connecting means to the other, and means mounted within said fuse plug, said means including a gage plate having a hole to accommodate a predetermined size of fuse, said means preventing the interposition of a fuse between said connecting means except through said gage hole aforesaid.

3. A refillable fuse plug of the character described having two connecting terminals each adapted to receive and secure the free end of a fuse adapted to extend from one connecting means to the other, and a gage plate mounted within said fuse plug, said gage plate having a hole therethrough to accommodate a predetermined size of fuse, said gage plate extending across the path of the fuse to prevent access to one of said connecting means except through said hole, said gage plate carrying one of said connecting means.

4. A refillable fuse plug of the character described having two connecting terminals each adapted to receive and secure a free end of a fuse adapted to extend from one connecting means to the other, and means having a gage hole entirely screening one connecting means to prevent the interposition of a fuse between said connecting means except through said gage hole.

1,384,029. SOUND-SIGNALING. REGINALD A. FESSENDEN, Brookline, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Filed Mar. 22, 1917. Serial No. 156,718. 6 Claims. (Cl. 181—0.5.)

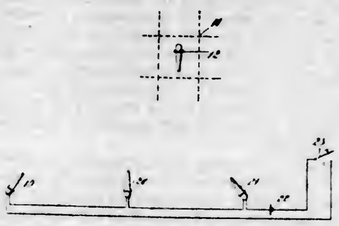


1. As a means of producing localized distribution of sound, a plurality of sound sources each located to act as a separate source and means for operating them in a predetermined phase relation with each other and interacting with each other to produce interference fringes of sound.

2. A method of producing localized sound signals which consists in arranging a plurality of sound sources at a predetermined distance apart whereby each will act as a separate source and exciting said sources at a predetermined frequency and with a predetermined phase relation between each other and interacting with each other to produce interference fringes of sound.

6. That method of guiding a ship in its course, which consists in exciting a number of sources of sound arranged at a predetermined distance and direction from each other said distance being sufficient to cause each to act as a separate source and excited at a predetermined frequency and phase relatively to each other, whereby at certain positions the waves will coincide and the sound intensity thereof at such positions will be proportioned to the square of the number of sound sources instead of proportioned to their sum.

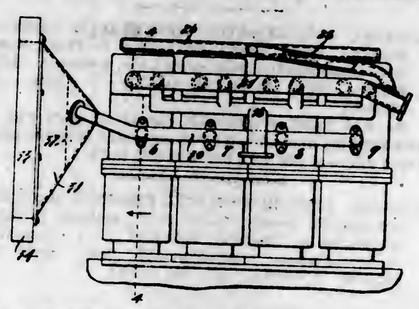
1,384,030. METHOD OF DESTROYING ENEMY GUN POSITIONS. REGINALD A. FESSENDEN, Newton, Mass., assignor to Submarine Signal Company, Portland, Me., a Corporation of Maine. Original application filed Jan. 11, 1919, Serial No. 270,723. Divided and this application filed Dec. 8, 1919. Serial No. 343,241. 2 Claims. (Cl. 89—1.)



1. The herein described method of destroying enemy military positions which consists in throwing into a predetermined and small area of said enemy military positions and at a distance from each other of the same order of magnitude as their depth of penetration, an accumulation of time fused shells so set as to explode simultaneously and independently of their time of firing and of the distance at which they are fired, whereby the explosive wave effects from a number of said shells is made cumulative by occurring at the same instant, and independently of the number of guns from which the shells have been fired.

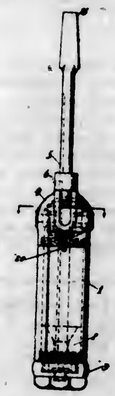
1,384,031. MOTOR-COOLING MEANS. JOSEPH A. INGRAM, East Orange, N. J. Filed Feb. 24, 1920. Serial No. 360,776. 7 Claims. (Cl. 123—170.)

7. An internal combustion motor consisting of a plurality of cylinders, each cylinder being provided with a chamber to contain liquid, at the lower portion thereof, an independent air jacket for each cylinder, an air exhaust manifold connecting said jackets, an air inlet duct common to all of said jackets, and suction means connection to



the air exhaust manifold, and an air collector ahead of said motor connected to said air inlet duct, said liquid chambers being independent of each other.

1,384,032. RATCHET-SCREWDRIVER. WALENTY J. MALECKI, East Pittsburgh, Pa. Filed June 23, 1920. Serial No. 391,239. 3 Claims. (Cl. 145—75.)

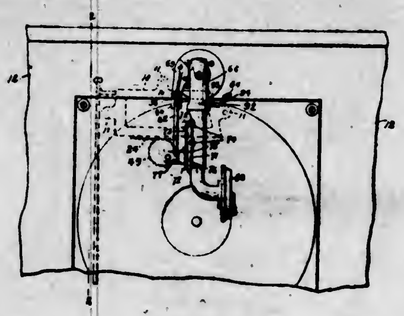


1. The handle of the mechanical screwdriver, consisting of the handle-middle-piece with a rod bearing inside of its lower end, also threaded on its lower end for receiving the handle bottom-piece, threaded on its upper end to receive the head of the handle, with catch and notch between them, preventing the two parts from screwing off, with vertical slot and hole on opposite side of the head of the handle for receiving the rod, transversely of or in alinement with the handle, a pivotal member in which the rod can slide and two bearings in the opposite sides of the handle-head to support the adjusting mechanism, as shown and described.

1,384,033. PROCESS OF TREATING CASTINGS. ALLEN B. NORTON, Cleveland, Ohio, assignor to The Aluminum Castings Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 5, 1918, Serial No. 248,277. Renewed Apr. 11, 1921. Serial No. 460,518. 17 Claims. (Cl. 148—6.)

1. A process of treating porous metallic articles which includes subjecting the article to the action of fluid reagents in a manner to cause the latter to enter the pores of the article, forming by chemical reaction within the said pores a solid compound having sufficient bulk to stop the said pores and heating the article to change the nature of the solid compound.

1,384,034. PHONOGRAPH REPEAT MECHANISM. WILLIAM BURTON BENHAM, Washington, D. C. Filed Mar. 15, 1920. Serial No. 365,924. 11 Claims. (Cl. 274—14.)



1. The combination with the movable tone arm of a phonograph including the needle-carrying portion thereof, of a vertically and rotatively movable standard, means for coupling said standard to the tone arm, means adapted to be operated by the motor of a phonograph for oscillating said standard, and manually operative means for simultaneously elevating said standard and coupling the motor operated means and the standard oscillating means.

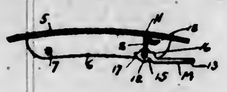
REISSUES.

15,137. SAFETY-TREAD. JONATHAN O. FOWLER, New York, N. Y. Filed Apr. 29, 1920. Serial No. 378,318. Original No. 1,183,365, dated May 16, 1916, Serial No. 72,041, filed Jan. 14, 1916. 11 Claims. (Cl. 168—1.)



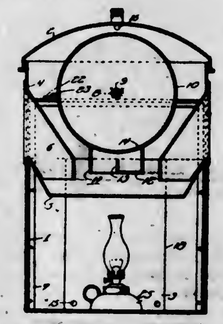
11. In a device of the class described, a tread, a plurality of convolutions, a support therefor and for the tread, other convolutions and treads spaced from the ones first named, means to hold the rearward portion of a set of convolutions from relative movement backward when the tread contacts the ground, and means to force the forward part of the set of convolutions backward upon the support being moved relatively rearward in use, and to allow the convolutions to move relatively forward when the said adjacent tread is raised from the ground, thereby completing an oscillatory movement.

15,138. BUCKLE. WALTER EUGENE GUYOT, Attleboro, Mass. Filed Jan. 3, 1921. Serial No. 434,735. Original No. 1,360,937, dated Nov. 30, 1920, Serial No. 385,279 filed May 29, 1920. 11 Claims. (Cl. 24—191.)



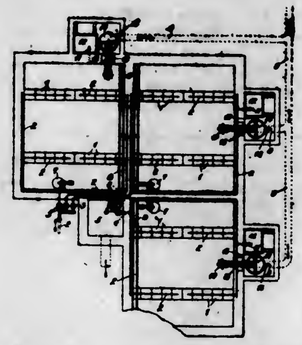
1. A buckle comprising a body portion, a tongue thereon arranged to swing on one side of a pivotal axis into engagement with a part to be adjustably held, and a member swingably mounted on said tongue having a lug arranged to impart swinging movement thereto.

15,139. STOCK-WATERING DEVICE. ERNEST S. JOHNSON, Webster City, Iowa, assignor of one-half to William B. Rood, Webster City, Iowa. Filed Apr. 9, 1920. Serial No. 372,718. Original No. 1,287,696, dated Dec. 17, 1918, Serial No. 219,057, filed Feb. 25, 1918. 8 Claims. (Cl. 119—73.)



1. In a stock watering device, a casing having openings in opposite sides, an open top receptacle positioning across the interior of the casing from one opening to the other, and an inverted vessel having common receiving and delivery ports and having a pendent chamber receiving from said ports and having a channel delivering into said receptacle, including an elevated part of the channel restricting the delivery therefrom, said chamber having part of its outer closure wall removed and having a longitudinal ledge extending as a partial septum across it spaced from the vessel.

15,140. PURIFICATION OF SEWAGE AND ANALOGOUS LIQUIDS. WALTER JONES, Stourbridge, England. Filed Aug. 11, 1919. Serial No. 316,875. Original No. 1,247,543, dated Nov. 20, 1917, Serial No. 56,537, filed Oct. 18, 1915. 10 Claims. (Cl. 210—8.)



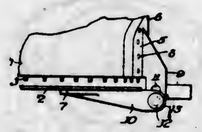
1. The process of purifying sewage or analogous liquids consisting in gradually supplying the crude sewage to a body of bacterial sludge or solid matter, aerating or oxidizing it while so being supplied.

15,141. [WITHDRAWN.]

15,142. HINGE FOR BOILER-FRONTS. WILLIAM E. RICKETSON, New York, N. Y., assignor, by direct and mesne assignments, to The Okadee Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1920. Serial No. 392,085. Original No. 1,299,228, dated Apr. 1, 1919, Serial No. 209,004, filed Dec. 26, 1917. 7 Claims. (Cl. 16—179.)

4. In combination with a boiler having an opening affording access thereto, a closure member for said open-

ing and means interposed between the boiler and the closure member whereby the closure member may be fixed in supported relation to the boiler and slidably detached therefrom, of an auxiliary attachment serving to



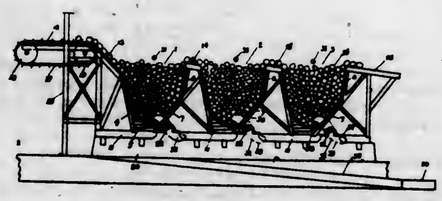
attach the closure member to the boiler, permit such sliding movement and support the closure member after such sliding movement of the closure member relatively to the boiler is effected.

15,143. BAIT FOR GLASS-DRAWING MACHINES AND IN THE PROCESS OF DRAWING GLASS. ARTHUR E. SPINASSE, Mount Vernon, Ohio. Filed Dec. 10, 1917. Serial No. 206,543. Original No. 1,170,464, dated Feb. 1, 1916, Serial No. 747,581, filed Feb. 10, 1913. 30 Claims. (Cl. 49—17.1.)



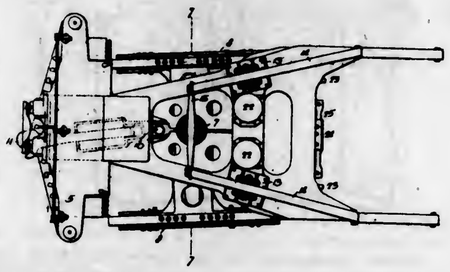
29. A bait for drawing hollow glass or cylinders from molten glass comprising means for supplying distending air pressure thereto, and means for forming and lifting without adhesion a glass novel, said means being adapted to support said novel without producing rupturing strain thereon during the drawing operation.

15,144. LOG-BARKER AND THE LIKE. CARL BUSCH THORNE, Hawkesbury, Ontario, Canada. Filed Mar. 29, 1921. Serial No. 456,661. Original No. 1,319,935, dated Oct. 28, 1919, Serial No. 286,138, filed Mar. 29, 1919. 15 Claims. (Cl. 144—208.)



1. In a log barker and the like, a hopper having front and rear walls terminating in a slotted bottom portion and a driven rotatory member suitably journaled and in rotation entering the hopper through said slotted bottom portion and operating toward the rear wall.

15,145. FOOTPLATE FOR ELECTRIC LOCOMOTIVES. ALLEN WALLACE, Moorestown, N. J., assignor to Baldwin Locomotive Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 31, 1921. Serial No. 441,440. Original No. 1,343,698, dated June 15, 1920, Serial No. 278,252, filed Feb. 20, 1919. 22 Claims. (Cl. 105—82.)



7. As a new article of manufacture, a locomotive front end frame formed in a single piece and comprising a pair of side members which gradually converge toward their forward ends.

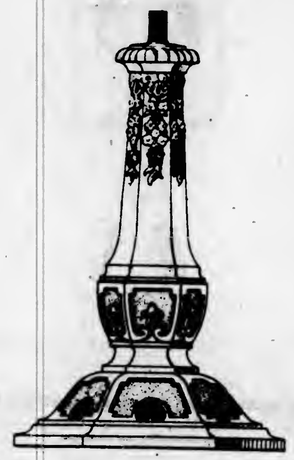
15,146. WINDOW. FRANCIS A. WINSLOW, New York, N. Y., assignor, by mesne assignments, to Austral Window Company, New York, N. Y., a Corporation of Maine. Filed Apr. 27, 1921. Serial No. 465,074. Original application filed Apr. 15, 1912, Serial No. 690,722; renewed May 12, 1916, Serial No. 97,182; original No. 1,351,083, dated Aug. 31, 1920. Divided and application filed May 29, 1914, Serial No. 841,718; original No. 1,303,752, dated May 13, 1919. 13 Claims. (Cl. 189—67.)



1. In combination, a window frame, an upright channel member on each side of the frame, a pair of swinging sashes mounted therein and having a channel member on each side thereof arranged to interlock with said upright channel members, said sashes swinging in opposite directions about their own respective pivots, the bottom of the upper sash being in the form of a channel member and the top of the lower sash being in the form of a channel member, said channel members being arranged so that their flanges interlock when the window is closed, the flanges of each channel contacting with the opposite channel to form a plurality of tight weather joints at such time.

DESIGNS.

58,284. LAMP-STAND. ROBERT J. BALDINGER, Brooklyn, N. Y., assignor to Harrison Fixture Works, Brooklyn, N. Y., a Firm. Filed Dec. 4, 1920. Serial No. 428,401. Term of patent 7 years.



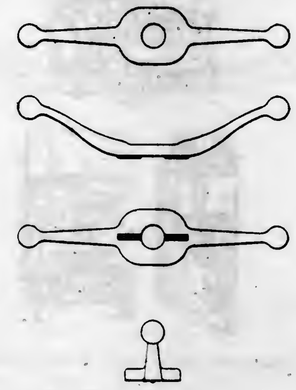
The ornamental design for a lamp stand as shown.

58,285. DANCING TOY. THOMAS BARNABY, Middletown, Ohio. Filed Jan. 17, 1921. Serial No. 438,031. Term of patent 3½ years.



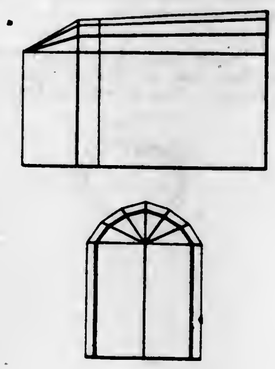
The ornamental design for a dancing toy, as shown.

58,286. RADIATOR-CAP. HAROLD R. CLIFFORD, Rockford, Ill. Filed Feb. 26, 1921. Serial No. 448,248. Term of patent 3½ years.



The ornamental design for a radiator cap, as shown.

58,287. COMBINED AUTOMOBILE RADIATOR AND HOOD. JULIAN L. CRACRAFT, Georgetown, Ky. Filed Mar. 22, 1921. Serial No. 454,488. Term of patent 7 years.



The ornamental design for a combined automobile radiator and hood, as shown.

58,288. MOTOR-OMNIBUS BODY. SAMUEL GAGE, Holloway, London, England, assignor to The London General Omnibus Company, Limited, Broadway, Westminster, London, England. Filed Dec. 28, 1920. Serial No. 433,655. Term of patent 7 years.



The ornamental design for a motor omnibus body as shown.

58,289. ELECTRIC FAN AND HEATING DEVICE. GEORGE GRAFF, New York, N. Y., and WILLIAM A. KENNEDY, Leonia, N. J., assignors to Graff, Washbourne & Dunn, New York, N. Y., a Corporation of New York. Filed Feb. 8, 1921. Serial No. 443,470. Term of patent 14 years.



The ornamental design for an electric fan and heating device as shown and described.

58,290. FLUID-RECEIVING RECEPTACLE. LEO GUDEMAN, New York, N. Y. Filed Sept. 29, 1920. Serial No. 413,621. Term of patent 3½ years.





The ornamental design for a fluid receiving receptacle, as shown.

58,291. FLUID-RECEIVING RECEPTACLE. LEO GUDEMAN, New York, N. Y. Filed Sept. 29, 1920. Serial No. 413,622. Term of patent 3½ years.





The ornamental design for a fluid receiving receptacle, as shown.

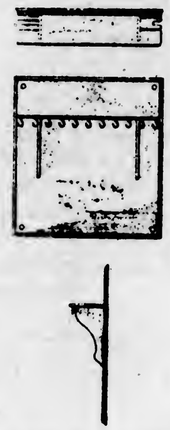
58,292. RADIATOR-CAP. JOHN J. HALLORAN, Daly City, Calif. Filed Mar. 22, 1921. Serial No. 454,487. Term of patent 3½ years.





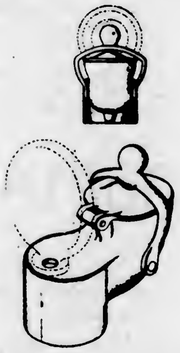
The ornamental design for a radiator cap, as shown.

58,293. CUTLERY-CABINET. JOHN H. LICKERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Mar. 15, 1920. Serial No. 366,117. Term of patent 14 years.



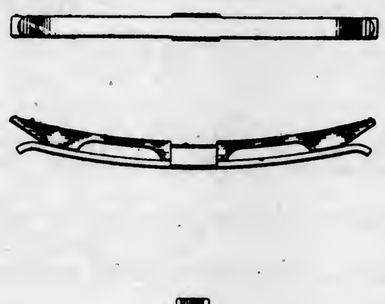
The ornamental design for a cutlery cabinet as shown.

58,294. CAP FOR AUTOMOBILE-RADIATORS. ALLAN L. MCGREGOR, Chicago, Ill. Filed Mar. 26, 1921. Serial No. 455,990. Term of patent 7 years.



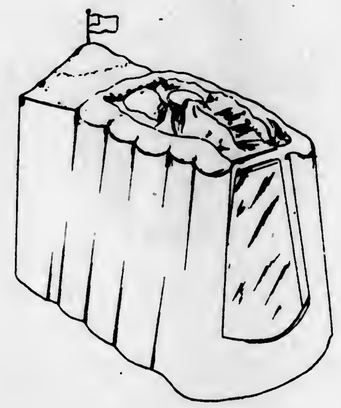
The ornamental design for a cap for automobile radiators, as shown.

58,295. COLLAR-HOLDER. CHARLES SILVERMAN, Providence, R. I. Filed Jan. 22, 1921. Serial No. 439,801. Term of patent 7 years.



The ornamental design for a collar holder, as shown.

58,296. DISPLAY DEVICE. WILLIAM WURTH, Cleveland, Ohio. Filed Oct. 4, 1920. Serial No. 414,684. Term of patent 7 years.



The ornamental design for a display device, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 5, 1921.

[PUBLISHED JULY 15, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 93,489. (CLASS 2. RECEPTACLES.) FIRE-PROOF FURNITURE AND CONSTRUCTION COMPANY, New York, N. Y., and Miamisburg, Ohio. Filed Mar. 13, 1916.

Security

Particular description of goods.—Tool-Boxes, Deposit-Boxes, and Merchandise-Bins.
Claims use since June, 1911.

Ser. No. 107,396. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 15, 1917.

CHAMBREE

The word "Chambree."
Particular description of goods.—Cotton Dress Fabrics.
Claims use since about May 20, 1917.

Ser. No. 116,706. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DOUBLE FABRIC TIRE COMPANY, Auburn, Ind. Filed Mar. 19, 1919.

AUBURN
W.K.M.

No claim is made to the word "Auburn" apart from the mark shown on the drawing.
Particular description of goods.—Rubber Pneumatic Tires, Rubber Pneumatic Tubes, and Tire Accessories—Namely, Pneumatic-Tire Shoes and Boots, Patches, Liners, and Treads Formed of Rubber and Rubber and Fabric.
Claims use since Oct. 1, 1918.

Ser. No. 116,835. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) OTTO E. GEISEL, Philadelphia, Pa. Filed Mar. 24, 1919.



The lining on the picture of the belt represents the woven cords thereof. No claim is made to illustration of the belt or the words "Grips Like a Bulldog" apart from the other features of the mark shown in the accompanying drawing.
Particular description of goods.—Woven Cord Belting and Woven-Asbestos-Tape Brake-Rings.
Claims use since on or about Feb. 1, 1917.

Ser. No. 117,267. (CLASS 39. CLOTHING.) CHIPMAN KNITTING MILLS, Easton, Pa. Filed Apr. 8, 1919.

"COLONIAL GIRL"

Particular description of goods.—Ladies' Hosiery.
Claims use since Jan. 8, 1907.

Ser. No. 121,084. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WALDES & Co., Prague, Bohemia. Filed July 29, 1919.

KOH-I-NOOR

Particular description of goods.—Placket-Fasteners, Glove-Fasteners, Hand Sewing-Needles, Knitting-Needles, Crochet-Needles, Safety-Pins, Snap-Fasteners, Hairpins, Hatpins Not Made of Precious Metal, Hooks and Eyes, Buckles for Personal Wear Not Made of Precious Metal, Thimbles, Straight Solid-Headed Pins, Coat-Hangers Adapted to be Attached to Garments, Clasps for Personal Wear, Button-Tapes, and Collar-Buttons and Cuff-Buttons Not Made of Precious Metal.
Claims use since Oct. 9, 1911.

Ser. No. 121,855. (CLASS 32. FURNITURE AND UPHOLSTERY.) WOHLFARTH & KOOS CO., INC., Newark, N. J. Filed Aug. 20, 1919.



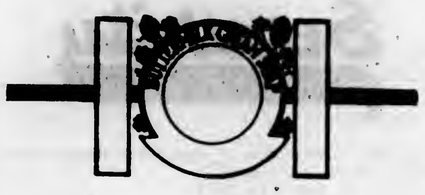
Exclusive use of the phrases "Built Well" and "Furniture," the location of the applicant corporation, "Trade-Mark," the slogan "The Test Will Tell That It is Built Well," and the representation of the goods are disclaimed apart from the mark as shown.
Particular description of goods.—Furniture and House-Furnishing Goods, Bedsteads, Metal Folding Beds, Metal Couches, Woven-Wire Mattresses and Cotton-Fabric Mattresses, Display-Racks; Rustic Furniture for Porches, Lawns, Gardens—Namely, Rustic Chairs, Stools, Settees, Lounges, Tables, Swings; Hat-Trees, Umbrella-Stands, Hand-Mirrors; Furniture—viz., Library-Tables; Couch-Hammocks, Shaving-Mirrors, Stands, Tea-Tables and Tea-Wagons, Book Ends, and Cases and Chests for Holding and Protecting Jewelry and Precious-Metal Ware, Serving-Trays of Wood and Glass, Medicine-Cabinets, Baby-Bassinets, Cribs, Children's Dressers, Chiffonniers, Chiffonettes, and Costumers, Pillows, Wire Bed and Chair Mattress and Cushion Springs, Dressers, Dressing-Tables, Boudoir-Benches, Writing-Desks, Night-Tables, Trunk-Stands, Dining-Tables, China-Cabinets, Serving-Tables, Buffets, Davenports, and Household, Bedroom, and Dining-Room Chairs and Rockers.
Claims use since Feb. 1, 1919.

Ser. No. 123,580. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THOS. HUBBUCK & SON LIMITED, London, England. Filed Oct. 9, 1919. Under ten-year proviso.

HUBBUCK.

Particular description of goods.—Pumice Powder, Tripoli Powder, and Soap-Alkalis Used in Detergents; Glass Powder, Emery, French Chalk Used for Removing Grease from Fabrics, and Soap in Powder and Cake Form.
Claims use since 1775.

Ser. No. 123,932. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HOWARD BROS. CHEMICAL CO., Buffalo, N. Y. Filed Oct. 18, 1919.



"Buttermilk Cream Soap" being disclaimed except in connection with the other features of the mark.
Particular description of goods.—Soap.
Claims use since Nov. 20, 1918.

Ser. No. 127,794. (CLASS 43. THREAD AND YARN.) THE BLACKSTAFF FLAX SPG. & WVG. CO. LTD., Belfast, Ireland. Filed Feb. 2, 1920.



Particular description of goods.—Threads of Flax, Hemp, Tow, and Ramie or China-Grass.
Claims use since the 2d of July, 1919.

Ser. No. 128,817. (CLASS 38. PRINTS AND PUBLICATIONS.) BLAKE & AMBES, San Francisco, Calif. Filed Feb. 24, 1920.

AD-VER-SCOPE

Particular description of goods.—Printed Publications Describing and Relating to Theatrical, Musical, Motion-Picture, and General Amusement Enterprises, Published Monthly.
Claims use since Feb. 14, 1920.

Ser. No. 128,939. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) CHARLES E. PFEIFFER, Paris, France. Filed Feb. 26, 1920.

CLARET PAPER

No claim is made to the word "Paper" apart from the mark as shown in the drawing.
Particular description of goods.—Cigarette-Papers and Tubes for Cigarettes.
Claims use since Dec. 18, 1919.

Ser. No. 130,415. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALBERT C. FISCHER, Chicago, Ill. Filed Apr. 8, 1920.

SERVICISED
LOOK FOR IT ON ALL PURCHASES

No claim is made for the words "Look for It on All Purchases."
Particular description of goods.—Hair-Nets, Ribbons in the Piece, Handkerchiefs, Veils.
Claims use since Jan. 15, 1920.

Ser. No. 130,867. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WASHBURN-CROSBY COMPANY, Minneapolis, Minn. Filed Apr. 8, 1920. Under ten-year proviso.

PARISIAN

Particular description of goods.—Wheat-Flour.
Claims use since September, 1876.

Ser. No. 131,293. (CLASS 39. CLOTHING.) WATTS, RITTER & COMPANY, Huntington, W. Va., and New York, N. Y. Filed Apr. 17, 1920.



Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Feb. 10, 1920.

Ser. No. 131,355. (CLASS 2. RECEPTACLES.) CHARLES H. SMITH, Malden, Mass. Filed Apr. 19, 1920.

YANKBILT

Particular description of goods.—Knockdown Clothes-Hampers, Waste-Baskets, and Trays for Holding Toilet Articles.
Claims use since Mar. 30, 1920.

Ser. No. 131,376. (CLASS 38. PRINTS AND PUBLICATIONS.) THE BUTTERICK PUBLISHING COMPANY, New York, N. Y. Filed Apr. 20, 1920.

NEEDLE—ART

Particular description of goods.—A Quarterly Periodical or Magazine.
Claims use since Mar. 10, 1920.

Ser. No. 131,497. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MICHIGAN METAL PRODUCTS COMPANY, Battle Creek, Mich. Filed Apr. 22, 1920.

"AIR-DOR"

Particular description of goods.—Door-Checks.
Claims use since Dec. 27, 1919.

Ser. No. 131,602. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SANITARY NOVELTY COMPANY, Indianapolis, Ind. Filed Apr. 24, 1920.

SAN-O-AUT

Particular description of goods.—Round Corrugated Butter-Mixers, Combination Device to Lift Paper Corks from Bottles, and Puncture Tin Cans.
Claims use since Jan. 1, 1920.

Ser. No. 131,649. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) OWL AUTO PRODUCTS COMPANY, INC., New York, N. Y. Filed Apr. 26, 1920.



OWL

Particular description of goods.—Automobile-Seat Covers, Automobile-Radiator Covers, Automobile-Curtains, Automobile Sun-Protectors in the Nature of an Awning.
Claims use since Mar. 25, 1920.

Ser. No. 131,748. (CLASS 39. CLOTHING.) THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed Apr. 28, 1920.

GOLD COIN

Particular description of goods.—Suspenders.
Claims use since about July, 1900.

Ser. No. 132,182. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) KISTLER LEATHER COMPANY, Boston, Mass. Filed May 8, 1920.



Particular description of goods.—Leather Belting.
Claims use since Mar. 17, 1920.

Ser. No. 132,536. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) GEORGE W. KAVANAUGH, INC., New York, N. Y. Filed May 17, 1920.



No claim being made to the exclusive right to the use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Tapes and Braids.
Claims use since March, 1901.

Ser. No. 132,852. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DEVONDE LABORATORIES, Houston, Tex. Filed May 24, 1920.

EVERWITE



Applicant disclaims the right to the exclusive use of the word "Everwite" apart from the mark shown on the drawing.
Particular description of goods.—Shoe-Dressing.
Claims use since May 20, 1916.

Ser. No. 133,498. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE REMOVO COMPANY, Syracuse, N. Y. Filed June 9, 1920.



No claim is made to the words "Gray Hair Restorer" apart from the mark shown in the drawing.
Particular description of goods.—Gray-Hair Restorer in the Nature of a Hair-Coloring.
Claims use since Apr. 20, 1918.

Ser. No. 133,685. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALBERT K. SHELDON COMPANY, Boston, Mass. Filed June 12, 1920.

SHELPAINT

No claim being made to the words "Paint" and "Trade Mark Reg." apart from the mark shown in the drawing.
Particular description of goods.—Ready-Mixed Paints, Paste Paints, Paint-Oils, Varnishes, Dry Colors, Japan Colors, and Oil-Colors.
Claims use since Jan. 1, 1920.

Ser. No. 135,259. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed July 22, 1920.



The exclusive right to the use of the words "Filter Stones," "Standard," "Seneca," and "Tripoli Flour" is disclaimed apart from the mark as shown.
Particular description of goods.—Tripoli Flour, (Ground Tripoli Stone.)
Claims use since May, 1916.

Ser. No. 135,731. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE OKONITE COMPANY, Passaic, N. J. Filed Aug. 2, 1920.

OKOLOOM

Particular description of goods.—Insulated Conductors and Cables for Electrical Purposes.
Claims use since Jan. 28, 1920.

Ser. No. 135,928. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRI GUTMANN SILKS CORPORATION, New York, N. Y. Filed Aug. 9, 1920.



Exclusive use of the Japanese word 'Kinu,' meaning "Woven Silk Fabrics," being disclaimed apart from the mark shown.
Particular description of goods.—Silk Goods in the Piece.
Claims use since Mar. 31, 1920.

Ser. No. 135,934. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LARSON TOOL & STAMPING COMPANY, Attleboro, Mass. Filed Aug. 9, 1920.



Particular description of goods.—Valve-Lifters, Valve-Grinding Tools, Tire-Rim-Tool Braces, Wrenches, and Universal Joints, Spark-Plug Sockets, Extension-Bars, and Lever-Handles for Use with Socket-Wrenches.
Claims use since June 1, 1920.

Ser. No. 136,636. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MOUNTAIN STATES RUBBER COMPANY, Denver, Colo. Filed Aug. 30, 1920.



Particular description of goods.—A Cleaning, Polishing, and Dressing Compound for Automobiles and Furniture.
Claims use since May 1, 1920.

Ser. No. 137,895. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SEARS, ROEBUCK AND COMPANY, New York, N. Y., and Chicago, Ill. Filed Oct. 4, 1920.

Silvertone

Particular description of goods.—Spring-Driven Motors, Starting and Stopping Devices; Winding Devices, Both Hand and Automatic; Governors, and Turntables for Motors.
Claims use since October, 1915.

Ser. No. 138,583. (CLASS 39. CLOTHING.) AMSON L. MYERSON, Philadelphia, Pa. Filed Oct. 20, 1920.



No claim being made to the name "Myerson" apart from the mark shown.
Particular description of goods.—Dress and Negligée Shirts, Men's and Young Men's Underwear of One and Two Piece Garments Made of Textile Fabrics, Night-Robes, Pajamas, and Collars.
Claims use since Aug. 25, 1920.

Ser. No. 138,802. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALUMINIUM-WALZWERKE A.-G., Schaffhausen, Switzerland. Filed Oct. 26, 1920.



Particular description of goods.—Lamp-Sockets Made of Aluminium for Electrical Fixtures.
Claims use since Dec. 1, 1912.

Ser. No. 138,830. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOSEPH WITTMAN, New York, N. Y. Filed Oct. 26, 1920.

LARISTAN

Particular description of goods.—Woven Rugs.
Claims use since 1908.

Ser. No. 138,851. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAY OIL PRODUCTS LTD., London, England, New York and Trout Creek, N. Y. Filed Oct. 27, 1920.

LACTOLIO

Particular description of goods.—Dry Pulverulent Mixtures Containing Large Quantities of Medicinal Oils, Which Products Upon Mixing with Water Produce Potable Emulsions Which Can Be Used Medicinally as a General Tonic or as Cathartic.
Claims use since Sept. 1, 1920.

Ser. No. 139,585. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) DIAMANTEWERKERS KOPEREN STELENPONDS "NIEUWE LEVENSKRACHT," Amsterdam, Holland. Filed Nov. 12, 1920.



Particular description of goods.—Tools for Diamond-Cutters in the Diamond Industry, Consisting of Drills, Mounted Wheels for Abrading and Grinding Diamond-Tools, Chisels, Saws, and Planes.
Claims use since December, 1919.

Ser. No. 139,611. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) AMERICAN RADIATOR COMPANY, East Orange, N. J., and Chicago, Ill. Filed Nov. 13, 1920.

IDEAL

Particular description of goods.—Thermometers and Steam-Pressure and Altitude Gages.
Claims use since about Nov. 1, 1900.

Ser. No. 139,849. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CHEMICAL UTILITIES COMPANY, Cincinnati, Ohio. Filed Nov. 19, 1920.

GREASE-OFF
"IT CLEANS EVERYTHING"
Keep in a dry place!

No claim being made to the words "Grease-Off, It Cleans Everything, Keep in a Dry Place" except in the form and association shown in the drawing.
Particular description of goods.—A Detergent Consisting of a Cleanser for Windows, Woodwork, Furniture, Metal Parts, Machinery, Motors, Enameled and Painted Surfaces, Paint-Brushes, Wall-Paper, Printing-Presses, Rollers, Quoins, Chases, Type, Electrotypes, Half-Tones, Etchings, Dish-Washing Machines, Meat-Blocks, Pans, Refrigerators, Marble, Glassware, Silverware, Metal Utensils, Bathroom-Fixtures, Enameled Tubs, Plumbing-Fixtures, Wiping-Cloths, Waste-Pipes, Cement, Linoleums, Carpets, Rugs, Toilets, and for Removing Oil, Grease, Soot of Every Description.
Claims use since May 14, 1920.

Ser. No. 140,240. (CLASS 39. CLOTHING.) ANGORA SPECIALTY CO., INC., Brooklyn, N. Y. Filed Nov. 27, 1920.



Consisting of the word "Scotweed."
Particular description of goods.—Coats and Suits for Men and Women in One, Two, and Three Piece Garments.
Claims use since Aug. 4, 1920.

Ser. No. 140,406. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) HENRY PAULSON, Chicago, Ill. Filed Nov. 29, 1920.

"MERITAS"

Consists of the word "Meritas."
Particular description of goods.—Reconstructed Rubies, Reconstructed Sapphires, Ring-Mountings.
Claims use since Feb. 15, 1904.

Ser. No. 140,483. (CLASS 17. TOBACCO PRODUCTS.) BAYUK BROS. INCORPORATED, Baltimore, Md., and Philadelphia, Pa. Filed Dec. 1, 1920.

COINER

Particular description of goods.—Cigars, Cigarettes, Chewing-Tobacco, and Smoking-Tobacco.
Claims use since Mar. 18, 1915.

Ser. No. 140,484. (CLASS 17. TOBACCO PRODUCTS.) BAYUK BROS. INCORPORATED, Baltimore, Md., and Philadelphia, Pa. Filed Dec. 1, 1920.

DON JOHN

Particular description of goods.—Cigars, Cigarettes, Chewing-Tobacco, and Smoking-Tobacco.
Claims use since Oct. 30, 1902.

Ser. No. 140,486. (CLASS 17. TOBACCO PRODUCTS.) BAYUK BROS. INCORPORATED, Baltimore, Md., and Philadelphia, Pa. Filed Dec. 1, 1920.

PRINCE HAMLET

Particular description of goods.—Cigars, Cigarettes, Chewing-Tobacco, and Smoking-Tobacco.
Claims use since Mar. 9, 1897.

Ser. No. 140,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GREAT NORTHERN SUPPLY COMPANY, Cleveland, Ohio. Filed Dec. 6, 1920.

Nose
Respirol
Throat Lungs

There is no intention on the part of applicants herein to claim any right in or to the words "Nose," "Throat," or "Lungs" except as used in said mark as shown by the drawing.

Particular description of goods.—A Certain Medicinal and Pharmaceutical Preparation Adapted to Be Used as a Salve for External Application to the Human Body as a Relief from Pain and Disorder Thereof and Especially of the Throat, Nose, and Lungs.
Claims use since Oct. 21, 1920.

Ser. No. 140,795. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GORHAM CORPORATION, Willmington, Del., and New York, N. Y. Filed Dec. 8, 1920.

THERMOKOTE
A PAINT FOR ALL HOT SURFACES

No claim being made to the words "Product" and "A Paint for All Hot Surfaces" apart from the mark shown in the drawing.

Particular description of goods.—Ready-Mixed Paint for Hot Surfaces.
Claims use since Aug. 1, 1920.

Ser. No. 140,947. (CLASS 39. CLOTHING.) ANTHONY KOBB, New York, N. Y. Filed Dec. 11, 1920.

PROFIT-SHARING

Particular description of goods.—Hosiery, One and Two Piece Knit Underwear, and Sweaters, for Men, Women, and Children.
Claims use since Sept. 1, 1920.

Ser. No. 140,965. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M-Z Pharmacal Co., Brazil, Ind. Filed Dec. 11, 1920.

M-Z

A portion of the mark is shown lined for red.

Particular description of goods.—A Medicine Used in the Treatment of the Liver and Bowels.
Claims use since June 1, 1920.

Ser. No. 141,044. (CLASS 39. CLOTHING.) FRANK SCHNEIDER, New York, N. Y. Filed Dec. 13, 1920.



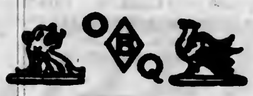
Particular description of goods.—Wedding and Evening Dresses.
Claims use since about the 3d of December, 1920.

Ser. No. 141,157. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CO-RHU-CU MEDICINE COMPANY, Owensboro, Ky. Filed Dec. 16, 1920.

CO-RHU-CU

Particular description of goods.—A Medical Preparation for the Treatment of Rheumatism.
Claims use since January, 1916.

Ser. No. 141,170. (CLASS 39. CLOTHING.) HALL, HARTWELL & Co., Troy, N. Y. Filed Dec. 16, 1920.



Particular description of goods.—Men's and Boys' Union-Suits, Undershirts, and Underdrawers Made of Textile and Knitted Fabrics.
Claims use since about June 21, 1919.

Ser. No. 141,196. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland. Filed Dec. 16, 1920.



Particular description of goods.—Cotton Handkerchiefs not in the Piece.
Claims use since Aug. 5, 1919.

Ser. No. 141,197. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland. Filed Dec. 16, 1920.

FASTORA

Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 23, 1920.

Ser. No. 141,210. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CHEMICAL UTILITIES COMPANY, Cincinnati, Ohio. Filed Dec. 17, 1920.

CUCO

Particular description of goods.—A Detergent and for Polishing Materials Consisting of Cleansers for Wood, Enameled and Painted Surfaces, Marble, Glassware, Chinaware, Metals and Metal Fixtures, Linoleums, Carpets, and for Removing Oil, Grease, and Soot, Also Polishing Materials—Namely, Polishes for Marble, Metal, Chinaware, Glassware.
Claims use since May 14, 1920.

Ser. No. 141,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ERNEST KIRSTEN, Oakland, Calif. Filed Dec. 21, 1920.

Yellow Dahlia

Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Apr. 15, 1920.

Ser. No. 141,387. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) PRIMALT PRODUCTS COMPANY, Chicago, Ill. Filed Dec. 21, 1920.

Prima

Particular description of goods.—Near Beer and Malt Tonic Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as a Beverage.
Claims use since July, 1919.

Ser. No. 141,400. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUBY TRAXLER CARPP, Bangor, Mich. Filed Dec. 21, 1920.

ROSE CROIX

Particular description of goods.—Canned Berries—Namely, Strawberries, Black and Red Raspberries, and Blackberries—and Canned Fruit—Namely, Canned Cherries.
Claims use since June 19, 1920.

Ser. No. 141,448. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASSOCIATED MERCHANDISING CORPORATION, Newark, N. J., and New York, N. Y. Filed Dec. 23, 1920.

BLEU D'AZUR MERIEL PARIS

The applicant makes no claim to the exclusive use of the word "Paris" apart from the mark as shown on the drawing.
Particular description of goods.—Toilet Preparations—Namely, Perfume, Toilet Water, Cold-Cream, Face-Powder, Talcum Powder, Sachet-Powder.
Claims use since about Oct. 1, 1921.

Ser. No. 141,824. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ADOLPH F. FRICK, San Francisco, Calif. Filed Jan. 3, 1921.



The lining disclosed in the drawing is intended to represent shading.
Particular description of goods.—Preparation for Dandruff, Itching Scalp, and Eczema.
Claims use since Sept. 15, 1920.

Ser. No. 141,826. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOS. BURKEY, Lancaster, Pa. Filed Jan. 4, 1921.

BURKEY'S



The pictorial representation being that of the applicant.
Particular description of goods.—A Furniture-Polish.
Claims use since Dec. 1, 1920.

Ser. No. 141,928. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE STANLEY WORKS, New Britain, Conn. Filed Jan. 6, 1921.

STANLEY SW

Particular description of goods.—Rules, Yardsticks, Bevels, Wantage-Rods, Gaging-Rods, Trammel-Points, Plumb-Bobs, Levels and Parts Thereof, Plumbs, Pitch-Adjusters, Leveling-Stands, Squares, Dividers, Bevels and Double Bevels; Odd Jobs, Being Combination of Levels, Plumbs, and other Measuring Devices; Gages for Carpenters and Woodworkers, Circular Face-Plates for Wood-Gages, Carpenters' Markers for Drawing Lines, Three-Angle-Rule Tools.
Claims use since Nov. 26, 1920.

Ser. No. 141,989. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH C. PATTERSON, Dayton, Ohio. Filed Jan. 8, 1921.



The same being a drawing from a photograph of the applicant's daughter, Mrs. Evalyn Patterson Clark.
Particular description of goods.—Aspirin Tablets.
Claims use since Dec. 4, 1920.

Ser. No. 142,065. (CLASS 39. CLOTHING.) GEORGE A. GUEST, New York, N. Y. Filed Jan. 11, 1921.



Particular description of goods.—Silk, Fabric, and Leather Gloves for Men, Women, and Children.
Claims use since about November, 1920.

Ser. No. 142,096. (CLASS 39. CLOTHING.) H. W. PLANT & CO., LIMITED, Leicester, England. Filed Jan. 11, 1921.

The "WOOLIGAN"

Particular description of goods.—Knitted Woolen Articles of Clothing Comprising Coats, Skirts, Scarfs, Capes, Cardigans, and Jerseys.
Claims use since July 26, 1920.

Ser. No. 142,276. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) CHARLES VITEK, Chicago, Ill. Filed Jan. 14, 1921.

VITEK

Particular description of goods.—Hose-Clamps.
Claims use since June 15, 1920.

Ser. No. 142,283. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE CROWN CORSET COMPANY, New York, N. Y. Filed Jan. 15, 1921.

"GIBRALTAR"

Particular description of goods.—Corset-Boning.
Claims use since about Dec. 23, 1920.

Ser. No. 142,287. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) W. T. GRANT COMPANY, New York, N. Y. Filed Jan. 15, 1921.

LA LUSTRA

Particular description of goods.—Natural and Artificial Pearls.
Claims use since Dec. 10, 1920.

Ser. No. 142,360. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD PERCY ROBINSON, New York, N. Y. Filed Jan. 17, 1921.

TEKARKIN

Particular description of goods.—A Solution of Potassium Nitrate Particularly Intended for the Treatment of Cancer, Malignant or Benign Tumor, in Epithelioma and Chronic Inflammatory Conditions of the Skin.
Claims use since about Dec. 1, 1921.

Ser. No. 142,526. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAURA E. MOORE, Griffin, Ga. Filed Jan. 20, 1921.



The picture appearing on the drawing being a portrait of the applicant. No claim is made to the words "The Signtific System of Hair Growing" apart from the mark shown in the drawing.
Particular description of goods.—A Hair-Grower for Shampooing, Oiling, and Straightening the Hair.
Claims use since November, 1919.

Ser. No. 142,557. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EQUIPMENT CORPORATION OF AMERICA, Wilmington, Del., and Chicago, Ill. Filed Jan. 21, 1921.

ECA
REBUILT
EQUIPMENT CORP OF AMERICA
CHICAGO PITTSBURGH PHILADELPHIA

No specific claim is made to the words "Chicago," "Pittsburgh," and "Philadelphia." No claim is made to the word "Rebuilt" except in the association shown.

Particular description of goods.—Construction Machinery and Equipment Comprising Concrete-Mixers, Derricks, Hoists, Hoisting-Engines, Steam-Shovels, Cranes, Excavators, and Backfillers, Pumps, Air-Compressors, Steam-Hammers, Steam and Gas Locomotives, and Road-Rollers.

Claims use since Dec. 1, 1918.

Ser. No. 142,568. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KATHERINE R. POND, Rutland, Vt. Filed Jan. 21, 1921.

GLYCERANT

Particular description of goods.—A Lubricant to be Applied to the Human Skin.

Claims use since Dec. 1, 1919.

Ser. No. 142,590. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARTER MEDICINE COMPANY, New York, N. Y. Filed Jan. 22, 1921. Under ten-year proviso.

CARTER'S
Smart Weed and Belladonna Back Ache
PLASTERS
CARTER MEDICINE CO., New York, U.S.A.

Particular description of goods.—Plasters for the Relief of Aches and Pains Wherever a Plaster Can Be Used.

Claims use since about August, 1878.

Ser. No. 143,078. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y. Filed Feb. 2, 1921.

AMCELITE

Particular description of goods.—Wire Cloth and Netting.

Claims use since Dec. 10, 1920.

Ser. No. 143,210. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) FAULTLESS CASTER CO., Evansville, Ind. Filed Feb. 5, 1921.



Particular description of goods.—Casters for Furniture and the Like.

Claims use since Jan. 1, 1900.

Ser. No. 143,255. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CITIZENS WHOLESALE SUPPLY COMPANY, Columbus, Ohio. Filed Feb. 7, 1921.

TRADE MARK
GOLDEN RULE
CO.

No claim being made to the words "Trade Mark" apart from the mark shown.

Particular description of goods.—Cleanser, (a Preparation for Household Cleaning;) Sanitary Dish-Washing Compound, Automobile-Soap, Soap Flakes, Washing-Powder, Washing-Machine Flakes, and Metal-Polish.

Claims use since Nov. 10, 1895.

Ser. No. 143,358. (CLASS 39. CLOTHING.) KING & COMPANY, New York, N. Y. Filed Feb. 9, 1921.

LE ROI

Particular description of goods.—Hosiery for Men, Women, and Children.

Claims use since Feb. 1, 1921.

Ser. No. 143,420. (CLASS 37. PAPER AND STATIONERY.) THE ALBEMARLE PAPER MFG. CO., Richmond, Va. Filed Feb. 11, 1921.

ALBEMARLE

Under section 9 of the act of Mar. 19, 1920.

Particular description of goods.—Writing, Printing, Blotting, Tissue, and Wrapping Papers.

Claims use since 1910.

Ser. No. 143,493. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GOLDSELLS GINGER ALE CO. INC., Chicago, Ill. Filed Feb. 12, 1921.



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since July, 1910.

Ser. No. 143,579. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE W. S. TYLER COMPANY, Cleveland, Ohio. Filed Feb. 14, 1921.

LICO-BRITE

Particular description of goods.—Woven-Wire Screen-Cloth.

Claims use since about Nov. 26, 1920.

Ser. No. 143,656. (CLASS 39. CLOTHING.) PANSY WAIST CO., New York, N. Y. Filed Feb. 16, 1921.

PANSY

Particular description of goods.—Dresses and Costumes.

Claims use since March, 1917.

Ser. No. 143,774. (CLASS 38. PRINTS AND PUBLICATIONS.) EVA NIEMAN, Cincinnati, Ohio. Filed Feb. 18, 1921.

BLACK & WHITE

Particular description of goods.—Printed Books and Pamphlets in Series.

Claims use since Feb. 1, 1921.

Ser. No. 143,815. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Feb. 19, 1921.

"SUNOLITH"

Particular description of goods.—Lithophone, (a Manufactured Product Which is Used as a Base in the Manufacture of Paints.)

Claims use since Jan. 12, 1921.

Ser. No. 143,942. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NUFORAL LABORATORIES, INC., New York, N. Y. Filed Feb. 23, 1921.

NUFORAL

Particular description of goods.—A Preparation to be Used in the Treatment of Tuberculosis.

Claims use since Feb. 11, 1921.

Ser. No. 143,946. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Feb. 28, 1921.

REPOSE ARCH

Particular description of goods.—Men's, Women's, and Children's Boots, Shoes, and Slippers of Leather, Rubber, Felt, Silk, Cloth, or other Fabric Construction.
Claims use since about Feb. 8, 1921.

Ser. No. 144,028. (CLASS 39. CLOTHING.) LORD & TAYLOR, New York, N. Y. Filed Feb. 25, 1921.

PREMIER

Particular description of goods.—Men's Dress-Shirts.
Claims use since Nov. 1, 1920.

Ser. No. 144,095. (CLASS 39. CLOTHING.) CHADDOCK-TERRY COMPANY, Lynchburg, Va. Filed Feb. 26, 1921.

Billyboy

Particular description of goods.—Leather Shoes.
Claims use since Feb. 12, 1921.

Ser. No. 144,103. (CLASS 39. CLOTHING.) ROSENWALD & WEIL, INC., Chicago, Ill. Filed Feb. 26, 1921.

HIGHLAND HEATHER

Particular description of goods.—Overcoats, Raincoats, Pants, and Vests.
Claims use since Jan. 1, 1917.

Ser. No. 144,111. (CLASS 39. CLOTHING.) HARRY SALTZMAN, New York, N. Y. Filed Feb. 26, 1921.

"SURPRISE"

Particular description of goods.—Negligée, Dress, and Work Shirts.
Claims use since Feb. 18, 1921.

Ser. No. 144,125. (CLASS 39. CLOTHING.) EUGENE BYRNES, New York, N. Y. Filed Feb. 28, 1921.

REGLAR FELLERS

Particular description of goods.—Hosiery.
Claims use since Feb. 24, 1921.

Ser. No. 144,127. (CLASS 39. CLOTHING.) EUGENE BYRNES, New York, N. Y. Filed Feb. 28, 1921.

REGLAR FELLERS

Particular description of goods.—Cloth, Straw, Felt, and Washable-Fabric Hats and Cloth, and Washable-Fabric Caps.
Claims use since Feb. 24, 1921.

Ser. No. 144,128. (CLASS 39. CLOTHING.) EUGENE BYRNES, New York, N. Y. Filed Feb. 28, 1921.

REGLAR FELLERS

Particular description of goods.—Blouses, Pajamas, and Overalls.
Claims use since Feb. 24, 1921.

Ser. No. 144,129. (CLASS 39. CLOTHING.) EUGENE BYRNES, New York, N. Y. Filed Feb. 28, 1921.

REGLAR FELLERS

Particular description of goods.—Cloth and Washable-Fabric Suits, Overcoats, and Cloth and Washable-Fabric Trousers.
Claims use since Feb. 24, 1921.

Ser. No. 144,174. (CLASS 39. CLOTHING.) BERKMAN-FOSTGANG-DOMAN, INC., New York, N. Y. Filed Mar. 1, 1921.

ABLON

No claim is made to the exclusive use of the word "Hats" except in the combination shown.
Particular description of goods.—Trimmed and Tailored Hats.
Claims use since Nov. 1, 1920.

Ser. No. 144,218. (CLASS 39. CLOTHING.) BRANIGAN, GREEN & Co., Baltimore, Md. Filed Mar. 2, 1921.

"MAN O'WAR"

Particular description of goods.—Men's, Women's, and Children's Drawers, Middy-Blouses, Pajamas, Union-Suits, and Undershirts; Men's and Children's Night-Shirts; Men's Dress, Negligée, and Work Shirts; Women's and Children's Blouses, Dresses, Middy-Suits, Nightgowns, Petticoats, Over and Under Skirts; Women's Brassières, Chemise, Combination-Garments, Kimonos, Lingerie, Negligées, Shirtwaists, Undervests, and Wrappers, and Children's Rompers.
Claims use since Feb. 10, 1921.

Ser. No. 144,220. (CLASS 39. CLOTHING.) LOCKE SIMON COMPANY, Wheeling, W. Va. Filed Mar. 2, 1921.

TODDLER

Particular description of goods.—Infants' and Children's Footwear—Namely, Shoes, Slippers, and Moccasins—Made Wholly or in Part of Leather or Canvas.
Claims use since Aug. 19, 1920.

Ser. No. 144,266. (CLASS 39. CLOTHING.) WALTON HOSIERY MILLS, Statesville, N. C. Filed Mar. 2, 1921.

MOTHERS DELIGHT

Particular description of goods.—Ladies' and Children's Cotton, Wool, and Silk Hosiery.
Claims use since July, 1920.

Ser. No. 144,284. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDUSTRIAL PAINT COMPANY, Leetsdale and Fair Oaks, Pa. Filed Mar. 2, 1921.

Lumber 924 Red Oxide

No claim being made to the use of the words "Red Oxide" apart from the mark shown in the drawing.
Particular description of goods.—Dry, Paste, and Ready-Mixed Paints.
Claims use since Sept. 22, 1920.

Ser. No. 144,287. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDUSTRIAL PAINT COMPANY, Leetsdale and Fair Oaks, Pa. Filed Mar. 3, 1921.



No claim being made to the use of the words "Black Graphite" apart from the mark shown in the drawing.
Particular description of goods.—Dry, Paste, and Ready-Mixed Paints.
Claims use since Sept. 22, 1920.

Ser. No. 144,302. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SUNSHINE PRODUCTS COMPANY, Minneapolis, Minn. Filed Mar. 3, 1921.

LIQUID SUNSHINE

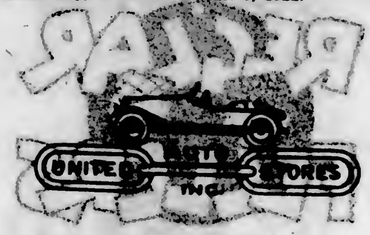
Particular description of goods.—Polish for Furniture, Musical Instruments, Floors, Automobiles, &c.
Claims use since on or about Dec. 15, 1920.

Ser. No. 144,315. (CLASS 39. CLOTHING.) ETCHISON HAT COMPANY, INC., Richmond, Va. Filed Mar. 5, 1921.



No claim is made to the exclusive use of the word "Richmond" and the expression "Est'd 1866" apart from the mark as shown in the drawing. The lines shown in the drawing indicate shading only.
Particular description of goods.—Headwear for Men, Women, and Children—Namely, Hats and Caps for Men and Children and Hats for Women.
Claims use since January, 1916.

Ser. No. 144,440. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED AUTO STORES, INCORPORATED, Philadelphia, Chester, Reading, Pottsville, and Allentown, Pa., and Atlantic City, N. J. Filed Mar. 7, 1921.



Particular description of goods.—Automobile Accessories—Namely, Auto-Tubes of Rubber, (Black, Red, and Gray.)
Claims use since the latter part of 1916.

Ser. No. 144,473. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PALMOLIVE CO. OF CANADA, LTD., Toronto, Ontario, Canada. Filed Mar. 8, 1921.



Particular description of goods.—Soap.
Claims use since July, 1920.

Ser. No. 144,513. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLS & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921.

GLIDE

Particular description of goods.—Lawn-Mowers.
Claims use since 1913.

Ser. No. 144,544. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOCIETE LYONNAISE D' INDUSTRIE MECANIQUE, Lyon-St. Clair-Calure, France. Filed Mar. 9, 1921.



Particular description of goods.—Tractors.
Claims use since Feb. 27, 1920.

Ser. No. 144,610. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARVEY A. ERTLEY, Northumberland, Pa. Filed Mar. 11, 1921.



The words "Best Quality" are disclaimed as part of the trade-mark.
Particular description of goods.—Polishes for Automobiles, Furniture, and the Like.
Claims use since Feb. 1, 1921.

Ser. No. 144,631. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md. Filed Mar. 11, 1921. Under ten-year proviso.

LANGE'S PLUGS

Particular description of goods.—An Antidote and Substitute for Tobacco.
Claims use since May, 1883.

Ser. No. 144,671. (CLASS 39. CLOTHING.) K. A. FEARE & Co., Brooklyn, N. Y. Filed Mar. 12, 1921.

Hannah Stouts

Particular description of goods.—Dressing-Sacks, Negligées, and Undergarments.
Claims use since Feb. 26, 1921.

Ser. No. 144,701. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET COMPANY, Detroit, Mich. Filed Mar. 14, 1921.

PLY-O-TOP

Particular description of goods.—Corsets and Brassières.
Claims use since Jan. 2, 1921.

Ser. No. 144,727. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOLOMAN KOVACS, Duquesne, Pa. Filed Mar. 14, 1921.

DISTRO

Particular description of goods.—Insecticide Powders, Insecticide Liquids, and Disinfectants.
Claims use since about January, 1912.

Ser. No. 144,755. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TIP TOP BLUING WORKS, Detroit, Mich. Filed Mar. 14, 1921.



Particular description of goods.—Laundry Bluing.
Claims use since March, 1918.

Ser. No. 144,776. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. HONIGSBROOM, Chicago, Ill. Filed Mar. 15, 1921.



The word "Velours" being disclaimed as a part of the trade-mark.

Particular description of goods.—Pile Fabrics with Cut, Looped, or Curled Pile of Either Silk, Cotton, Mohair, Linen, Artificial Silk, or Any Combinations Thereof.

Claims use since about the 24th of February, 1921.

Ser. No. 144,855. (CLASS 39. CLOTHING.) THE B-Z WAIST COMPANY, New York, N. Y. Filed Mar. 17, 1921.

E SLEEP Z EASY Z

Particular description of goods.—Underwear—Namely, Sleeping-Garments.

Claims use since Jan. 27, 1921.

Ser. No. 144,864. (CLASS 38. PRINTS AND PUBLICATIONS.) JOHN V. KOHLHAAS, Philadelphia, Pa. Filed Mar. 17, 1921.

THE PHOTO DRAMA MAGAZINE

No claim being made to the exclusive right to use the word "Magazine" apart from the mark as shown.

Particular description of goods.— A Monthly Magazine.

Claims use since Mar. 15, 1921.

Ser. No. 144,880. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMIL WOLFRAM, Columbus, Ohio. Filed Mar. 17, 1921.

Sa-nos

Particular description of goods.—A Medicinal Preparation for the Treatment of Ulcers and Catarrhal Conditions of the Stomach; Sore Throat, Gums, Tongue, Mouth; Tonsilitis, Quinsy, or Sore Nose, Leucorrhea, Piles, or Inflammation of the Bladder, Fissures of Anus, Prolapsus of Lower Bowel, Eczema, Tetter, Eruption, Old Itching Sores, Burns, Boils, Carbuncles, Wounds, Insect-Bites, Ivy-Poisoning, Itching Diseases.

Claims use since October, 1920.

Ser. No. 144,901. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDGEWATER TAPESTRY LOOMS, INC., Edgewater, N. J., and New York, N. Y. Filed Mar. 18, 1921.



Particular description of goods.—Hand-Woven Tapestry and Needle-Point, Which Latter is a Product Made by Passing Threads of Various Colors Through Net or Open-work Material, Entirely Covering the Same, and Forming Designs Similar to Those Woven in Tapestry on Hand-Looms, Said Tapestry and Needle-Point Being Sold by the Square Foot and Specially Made to Definite Sizes for Wall-Hangings, Curtains, Valances, Screens, Pillow-Tops, Table-Runners, and other Kinds of Furniture-Coverings.

Claims use since October, 1913.

Ser. No. 144,938. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ORANGE CHEMICAL CO., Orange, Tex. Filed Mar. 18, 1921.

EATASUCK

Particular description of goods.—A Medicine for the Treatment of Indigestion.

Claims use since Oct. 15, 1920.

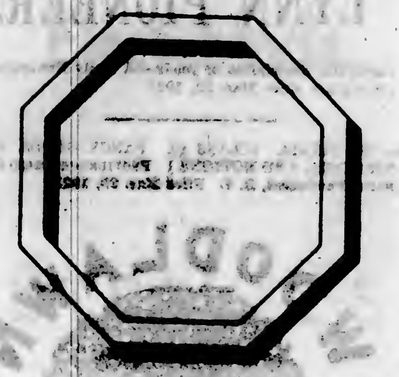
Ser. No. 144,946. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARCHIBALD PAUL WENTWORTH TWOMBLY, Waltham, Mass. Filed Mar. 18, 1921.

METH-ALL

Particular description of goods.—Rheumatism Medicines.

Claims use since Dec. 11, 1920.

Ser. No. 144,909. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN STEEL FOUNDRIES, Chicago, Ill. Filed Mar. 21, 1921.



Particular description of goods.—Metal-Pipe Fittings Consisting of Elbows, Reducing Taper Elbows, Long-Radius Elbows, Base-Elbows, T's, Reducing-T's, Crosses, Reducing-Crosses, Laterals, Taper Reducers, Y Branches, Double-Y Branches, Return-Bends, and Headers.

Claims use since January, 1903.

Ser. No. 145,031. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) G. W. J. MURPHY COMPANY, Amesbury, Mass. Filed Mar. 21, 1921.

MURCO

Particular description of goods.—Curtain-Fasteners and Parts Thereof.

Claims use since Mar. 7, 1921.

Ser. No. 145,032. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) G. W. J. MURPHY COMPANY, Amesbury, Mass. Filed Mar. 21, 1921.

BURCO

Particular description of goods.—Curtain-Fasteners and Parts Thereof.

Claims use since Mar. 8, 1921.

Ser. No. 145,006. (CLASS 39. CLOTHING.) LESTER BING, Philadelphia, Pa. Filed Mar. 22, 1921.



Particular description of goods.—Knitted Bloomers, Knitted Vests, and Knitted Union-Suits.

Claims use since on or about Nov. 15, 1920.

Ser. No. 145,122. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PATEK BROTHERS, Milwaukee, Wis. Filed Mar. 23, 1921.

HQL

Particular description of goods.—Enamels, Paste Paints, Japans, Wood-Fillers, Paint-Driers, Wood-Stains, Lacquers, Calcimines, Concrete and Cement Paints, Flat Washable Oil-Paints, Paint and Varnish Removers, Floor-Paints, Colors in Oil, Furniture-Polish, Automobile-Body Polish, Floor-Oil, and Polishes Generally for Painted and Varnished Surfaces.

Claims use since 1898 on enamels, paste paints, japans, wood-fillers, paint-driers, wood-stains, lacquers, calcimines, floor-paints, colors in oil, furniture-polish, floor-oil, and polishes generally for painted and varnished surfaces; since 1908 on flat washable oil-paints and paint and varnish removers; since 1910 on concrete and cement paints, and since 1914 on automobile-body polish.

Ser. No. 145,221. (CLASS 39. CLOTHING.) KOPS BROS., New York, N. Y. Filed Mar. 25, 1921.

The Netherall For Each and All

Particular description of goods.—Corsets, Brassières, Corset-Covers, and Waists.

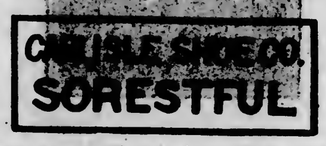
Claims use since Jan. 1, 1921.

Ser. No. 145,227. (CLASS 39. CLOTHING.) ISRAEL MICHELSOHN, New York, N. Y. Filed Mar. 25, 1921.



Particular description of goods.—Men's Socks.
Claims use since Mar. 10, 1921.

Ser. No. 145,252. (CLASS 39. CLOTHING.) CARLISLE SHOE CO., Carlisle, Pa., Filed Mar. 26, 1921.



"Carlisle Shoe Co." not being claimed apart from the other features of the mark.
Particular description of goods.—Leather Boots and Shoes for Men's, Women's, and Children's Use.
Claims use since Jan. 1, 1921.

Ser. No. 145,275. (CLASS 39. CLOTHING.) KOHN, LEINHARDT & SIMON, INC., New York, N. Y. Filed Mar. 26, 1921.



Particular description of goods.—Dresses.
Claims use since Feb. 15, 1921.

Ser. No. 145,291. (CLASS 39. CLOTHING.) ROSENBERG BROS. & CO., Rochester, N. Y. Filed Mar. 26, 1921.

Kay-bac

Particular description of goods.—Men's Coats, Vests, Pants, and Overcoats.
Claims use since on or about the 1st day of January, 1921.

Ser. No. 145,325. (CLASS 38. PRINTS AND PUBLICATIONS.) MAE L. DOWNS, Philadelphia, Pa. Filed Mar. 28, 1921.

PHOTO-DRAMA MAGAZINE

No claim is made to the word "Magazine" apart from the mark shown in the drawing.
Particular description of goods.—A Monthly Periodical.
Claims use since Mar. 8, 1921.

Ser. No. 145,356. (CLASS 38. PRINTS AND PUBLICATIONS.) NEW ENGLAND NEWSPAPER PUBLISHING COMPANY, Boston, Mass. Filed Mar. 28, 1921.

LYNN PIONEER.

Particular description of goods.—A Daily Newspaper.
Claims use since Mar. 22, 1921.

Ser. No. 145,414. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) PROVIDENCE BRAID COMPANY, Pawtucket, R. I. Filed Mar. 29, 1921.



Particular description of goods.—Shoe-Laces.
Claims use since Aug. 1, 1912.

Ser. No. 145,451. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HUDSON COTTON GOODS CO., Greenville, S. C. Filed Mar. 30, 1921.

HUDSON

Particular description of goods.—Woven, Bleached, Finished, Piece-Dyed, Yarn-Dyed, or Printed Cotton Piece Goods.
Claims use since July 1, 1920.

Ser No. 145,554. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ENDERS SALES COMPANY, New York, N. Y. Filed Apr. 1, 1921.

LITTLE ONE

Particular description of goods.—Safety-Razors.
Claims use since Oct. 11, 1920.

Ser. No. 145,644. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PIKE MANUFACTURING COMPANY, Pike and Littleton, N. H.; Evansville, Wermont, and Orleans, Ind.; Hot Springs, Ark., and New York, N. Y. Filed Apr. 2, 1921.



Particular description of goods.—Rasps.
Claims use since Jan. 6, 1921.

Ser. No. [illegible]. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STROEBERGER AND LEE, [illegible], Mass. Filed Apr. 2, 1921.

STROLEE'S

Particular description of goods.—Engine-Cylinder Dressers.
Claims use since Nov. 15, 1920.

Ser. No. 145,766. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) MAX BAYERDORFFER, Huguenot Park, N. Y. Filed Apr. 6, 1921.

SPIRALETS

Particular description of goods.—Leg-Rings Used as Poultry-Markers.
Claims use since on or about Apr. 1, 1914.

Ser. No. 145,901. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Apr. 8, 1921.



No claim being made to the exclusive use of the words "New York" apart from the mark shown in the drawing.
Particular description of goods.—Piece Goods, Being a Fabric with a Warp of Cotton or of Cotton and Silk Mixed or of Cotton and Artificial Silk Mixed, and a Filling of Wool or Mohair or Alpaca, Singly or Combined.
Claims use since Mar. 29, 1921.

Ser. No. 145,902. (CLASS 42. (KNITTED, NETTED, AND TEXTILE FABRICS.) LESHER, WHITMAN & CO., INC., New York, N. Y. Filed Apr. 8, 1921.



No claim being made to the exclusive use of the words "New York" apart from the mark shown in the drawing.
Particular description of goods.—Piece Goods, Being a Fabric with a Warp of Cotton or of Cotton and Silk Mixed or of Cotton and Artificial Silk Mixed, and a Filling of Wool or Mohair or Alpaca, Singly or Combined.
Claims use since Mar. 29, 1921.

Ser. No. 145,971. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) IRVING W. RICE, New York, N. Y. Filed Apr. 9, 1921.



No claim is made to the words "Hair Net" apart from the mark as shown in the drawing.
Particular description of goods.—Hair-Nets.
Claims use since Feb. 1, 1921.

Ser. No. 146,023. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN C. MCLEAN, Cleveland, Ohio. Filed Apr. 11, 1921.

SPEED

Particular description of goods.—Dressing for Transmission-Band Linings.
Claims use since March, 1921.

Ser. No. 146,074. (CLASS 38. PRINTS AND PUBLICATIONS.) WILLARD L. GLYSON, Bristol, Vt. Filed Apr. 12, 1921.



Particular description of goods.—Photographs.
Claims use since April, 1919.

Ser. No. 146,106. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JOSEPH BRANDT, New York, N. Y. Filed Apr. 12, 1921.



No claim is made of exclusive right of use of "Concealed Hat Pins Points" apart from the mark shown in the drawing.
Particular description of goods.—Hatpins.
Claims use since Mar. 1, 1921.

Ser. No. 146,124. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ISAAC LADEN, New York, N. Y. Filed Apr. 13, 1921.

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Particular description of goods.—Cotton Piece Goods—viz., Tickings.
Claims use since about Feb. 20, 1919.

Ser. No. 146,179. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LONSDALE COMPANY, Providence, R. I. Filed Apr. 14, 1921.



No claim is made to the word "Cloth" apart from the mark as shown on the drawing.
Particular description of goods.—Cotton Goods in the Piece.
Claims use since Jan. 2, 1901.

Ser. No. 146,232. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO., INC., New York, N. Y. Filed Apr. 15, 1921.



Particular description of goods.—Woven Cotton Piece Goods—Namely, Cotton Drills.
Claims use since September, 1919.

Ser. No. 146,497. (CLASS 38. PRINTS AND PUBLICATIONS.) PACIFIC DRUG REVIEW, Portland, Oreg. Filed Apr. 21, 1921.

Fountain Profits

Particular description of goods.—Printed Magazines issued Monthly.
Claims use since 1911.

Ser. No. 146,608. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) THE WHITE EAGLE BREWING COMPANY, Chicago, Ill. Filed Apr. 22, 1921.

Temptation

Particular description of goods.—Near Beer.
Claims use since Jan. 1, 1921.

Ser. No. 146,621. (CLASS 4, ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 23, 1921.

Harriet Hubbard Ayer

The trade-mark is a facsimile of the signature of Harriet Hubbard Ayer, deceased.
Particular description of goods.—Toilet Soaps.
Claims use since June, 1894.

Ser. No. 146,632. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL MAGAZINE COMPANY, New York, N. Y. Filed Apr. 23, 1921.

"The Better Way"

Particular description of goods.—A Biweekly Magazine or Pamphlet.
Claims use since Mar. 8, 1919.

Ser. No. 146,646. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MIGHTYBONE CORPORATION OF NEW YORK, New York, N. Y. Filed Apr. 23, 1921.

Mightybone

Particular description of goods.—Boning, Steels, and Staying Materials for Corsets, or Other Wearing-Apparel.
Claims use since Feb. 24, 1920.

Ser. No. 146,677. (CLASS 38. PRINTS AND PUBLICATIONS.) AUTOMOBILE CLUB OF ST. LOUIS, St. Louis, Mo. Filed Apr. 25, 1921.

APROPOS

Particular description of goods.—Magazines Published Monthly.
Claims use since Apr. 16, 1921.

Ser. No. 147,503. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) DESERT WONDER SOAP COMPANY, Long Beach, Calif. Filed May 10, 1921.



Particular description of goods.—Soap.
Claims use since Mar. 26, 1921.

Ser. No. 147,513. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed May 10, 1921.

Menz

Particular description of goods.—Soap.
Claims use since about Apr. 1, 1921.

Ser. No. 147,544. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHNSON & JOHNSON, New Brunswick, N. J. Filed May 9, 1921.

"ZA-ZA"

Particular description of goods.—Soap in Liquid and Solid Form.
Claims use since January, 1919.

Ser. No. 147,558. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) C. M. KIMBALL COMPANY, Winthrop, Mass. Filed May 11, 1921.



Particular description of goods.—Silver-Polish.
Claims use since Mar. 1, 1914.

Ser. No. 147,559. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LAP-IN COMPOUND COMPANY, San Francisco, Calif. Filed May 11, 1921.

LAP-IN

Particular description of goods.—Cylinder-Grinding Compound.
Claims use since Mar. 30, 1921.

Ser. No. 147,831. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LANOE SOAP CO., San Antonio, Tex. Filed May 17, 1921.

CAMPAMENTO

Particular description of goods.—Soap.
Claims use since November, 1920.

Ser. No. 147,848. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WM. A. ROGERS LTD., New York and Niagara Falls, N. Y. Filed May 17, 1921.

NU-GLO

Particular description of goods.—Polishing-Cloths for Gold, Silver, and All Precious Metal.
Claims use since November, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 5, 1921.

144,333. CERTAIN HARDWARE AND BATH-ROOM ACCESSORIES. THE ADAMS & WESTLAKE COMPANY, Chicago, Ill.
Filed October 21, 1920. Serial No. 138,625. PUBLISHED MARCH 22, 1921.

144,334. ELECTRICAL CORD CONNECTION FOR HEATING APPLIANCES. ALEXANDER AND LAVENSON ELECTRICAL SUPPLY CO., San Francisco, Calif.
Filed October 28, 1920. Serial No. 138,890. PUBLISHED MARCH 1, 1921.

144,335. BURNING-LEAD MOLDS. AMERICAN BUREAU OF ENGINEERING INC., Chicago, Ill.
Filed January 19, 1920. Serial No. 127,275. PUBLISHED MARCH 29, 1921.

144,336. CERTAIN NAMED BRAKE-LININGS, CLUTCH-FACINGS, BELTS, PACKINGS, AND HOSE. AMERICAN BRAKE-LINING COMPANY, Lansdale, Pa.
Filed May 12, 1920. Serial No. 132,339. PUBLISHED NOVEMBER 2, 1920.

144,337. CERTAIN NAMED MEDICINES, CHEMICALS, AND TOILET PREPARATIONS. AMERICAN LABORATORIES INCORPORATED, Richmond, Va.
Filed August 26, 1920. Serial No. 136,500. PUBLISHED MARCH 15, 1921.

144,338. COMPOSITION FOR MAKING FLOORS, WALLS, AND PARTITIONS. AMERICAN MAGNESIA PRODUCTS CO., Chicago, Ill.
Filed December 18, 1919. Serial No. 126,205. PUBLISHED MARCH 15, 1921.

144,339. STORAGE BATTERIES AND PARTS, ELECTRIC SWITCHES, ELECTRIC BULBS, ELECTRIC MOTORS, ELECTRIC WIRING, AND ELECTRIC CONDUITS. APPEL BATTERY SERVICE COMPANY, St. Louis, Mo.
Filed November 12, 1920. Serial No. 139,561. PUBLISHED MARCH 1, 1921.

144,340. MEDICINE FOR RHEUMATISM, NEURITIS, NEURALGIA, GOUT, SCIATICA, AND PAINFUL INFLAMMATORY JOINT AND MUSCLE CONDITIONS. THE BALTIMORE SCIENTIFIC PRODUCTS CO., Baltimore, Md.
Filed April 12, 1920. Serial No. 131,008. PUBLISHED MARCH 29, 1921.

144,341. SALVE FOR HEMORRHOIDS. SALVATORE BASSO, Chicago, Ill.
Filed July 30, 1920. Serial No. 135,589. PUBLISHED MARCH 15, 1921.

144,342. SHOE-DRESSING. ABRAHAM LINCOLN BAUER, Indianapolis, Ind.
Filed December 6, 1920. Serial No. 140,634. PUBLISHED MARCH 15, 1921.

144,343. FRESH DECIDUOUS FRUITS. BEAR CREEK ORCHARDS, Medford, Oreg.
Filed October 20, 1920. Serial No. 138,536. PUBLISHED MARCH 22, 1921.

144,344. TOILET FACE-POWDER. DORA BEE, Memphis, Tenn.
Filed March 26, 1919. Serial No. 116,916. PUBLISHED MARCH 22, 1921.

144,345. NATURAL AND SYNTHETIC LIQUID FLOWER-OILS SUITABLE FOR THE PRODUCTION OF PERFUMES. EDWARD T. BEISER CO., New York, N. Y.
Filed May 26, 1920. Serial No. 132,976. PUBLISHED MARCH 22, 1921.

144,346. CERTAIN NAMED MEDICINAL AND PHARMACEUTICAL PREPARATIONS. BELLEVUE SPECIALTY CO., Memphis, Tenn.
Filed December 3, 1919. Serial No. 125,526. PUBLISHED MARCH 15, 1921.

144,347. ELECTRIC PLUG-CLUSTERS HAVING TWO OUTLETS. BENJAMIN ELECTRIC MANUFACTURING CO., Chicago, Ill.
Filed October 30, 1919. Serial No. 124,330. PUBLISHED MARCH 1, 1921.

144,348. MOTOR FUEL-OIL. BENZOLENE MOTOR FUEL CO., Chicago, Ill.
Filed January 23, 1920. Serial No. 127,496. PUBLISHED MARCH 8, 1921.

144,349. STYLOGRAPHIC PENCILS AND FOUNTAIN-PENS. IRVING J. BISSELL, Grand Rapids, Mich.
Filed July 19, 1920. Serial No. 135,127. PUBLISHED MARCH 1, 1921.

144,350. THREADS OF FLAX, HEMP, TOW, AND RAMIE OR CHINA-GRASS. THE BLACKSTAFF FLAX SPINNING & WEAVING CO., LIMITED, Belfast, Ireland.
Filed February 2, 1920. Serial No. 127,851. PUBLISHED DECEMBER 28, 1920.

144,351. MEN'S SUMMER CLOTHING CONSISTING OF SUITS, VESTS, PANTS, AND COATS. BLOOM & HORNER, New York, N. Y.
Filed January 29, 1920. Serial No. 127,748. PUBLISHED JANUARY 4, 1921.

144,352. CONFECTIONERY—NAMELY, CHOCOLATE COATINGS. THE BORDEN COMPANY, New York, N. Y.
Filed November 18, 1920. Serial No. 139,785. PUBLISHED MARCH 22, 1921.

144,353. TEA. WILLIAM BRAID & COMPANY, Vancouver, British Columbia, Canada.
Filed August 25, 1919. Serial No. 121,965. PUBLISHED MARCH 15, 1921.

144,354. CERTAIN BATHROOM-FITTINGS. BRE MANUFACTURING COMPANY, Boston, Mass.
Filed November 13, 1920. Serial No. 139,647. PUBLISHED MARCH 22, 1921.

144,355. ICE-CREAM. BREYER ICE CREAM COMPANY, Philadelphia, Pa.
Filed December 10, 1920. Serial No. 140,857. PUBLISHED MARCH 15, 1921.

144,356. MAGAZINE-PENCILS. BROWN & BIGELOW, St. Paul, Minn.
Filed March 24, 1919. Serial No. 116,831. PUBLISHED MARCH 22, 1921.

144,357. WRITING-PAPER. L. L. BROWN PAPER COMPANY, Adams, Mass.
Filed February 14, 1919. Serial No. 115,851. PUBLISHED DECEMBER 9, 1919.

144,358. LAUNDRY AND CLEANING POWDER. EMMA R. BOWNE, San Francisco, Calif.
Filed December 22, 1919. Serial No. 126,304. PUBLISHED MARCH 29, 1921.

144,359. CERTAIN NAMED MEDICINAL PREPARATIONS. BUFFINGTON'S INCORPORATED, Worcester, Mass.
Filed August 5, 1920. Serial No. 135,798. PUBLISHED MARCH 22, 1921.

144,360. MEDICINE FOR STOMACH TROUBLES AND FOR STONES IN THE KIDNEY. CHRISS BULUBASIS, Toledo, Ohio.
Filed August 30, 1920. Serial No. 136,612. PUBLISHED MARCH 15, 1921.

144,361. CERTAIN NAMED PAPER AND STATIONERY. BUXTON & SKINNER PRINTING AND STATIONERY COMPANY, St. Louis, Mo.
Filed November 19, 1920. Serial No. 139,845. PUBLISHED MARCH 1, 1921.

144,362. LADIES' KNITTED UNDERWEAR. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed December 11, 1919. Serial No. 125,830. PUBLISHED FEBRUARY 22, 1921.

144,363. CERTAIN NAMED ARTICLES OF JEWELRY, TABLEWARE, TOILET, AND OTHER SILVERWARE. CARTIER, INC., New York, N. Y.
Filed October 7, 1920. Serial No. 138,043. PUBLISHED MARCH 1, 1921.

144,364. CERTAIN NAMED PAPERS. THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio.
Filed October 27, 1919. Serial No. 124,109. PUBLISHED APRIL 6, 1920.

144,365. CONCENTRATED ARTIFICIAL FRUIT-OILS. CHEMICAL WORKS FLORA, Dübendorf, Switzerland.
Filed December 23, 1919. Serial No. 126,851. PUBLISHED MARCH 22, 1921.

144,366. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed November 2, 1920. Serial No. 130,076. PUBLISHED MARCH 1, 1921.

144,367. PHONOGRAPHS. JOHN E. CHRISTENSEN, Chicago, Ill.
Filed April 2, 1919. Serial No. 117,105. PUBLISHED FEBRUARY 3, 1920.

144,368. CERTAIN OINTMENT OR MASSAGE-CREAM. ABNER C. CLARK, Worcester, Mass.
Filed October 12, 1920. Serial No. 138,210. PUBLISHED MARCH 22, 1921.

144,369. LIQUID BLACK COAL-TAR PAINT FOR PAINTING ROOFS AND OTHER EXPOSED SURFACES. CLEAVER MANUFACTURING COMPANY, Pendleton, Oreg.
Filed October 20, 1919. Serial No. 123,968. PUBLISHED MARCH 22, 1921.

144,370. FERROMOLYBDENUM. CLIMAX MOLYBDENUM COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 16, 1920. Serial No. 131,207. PUBLISHED MARCH 22, 1921.

144,371. COFFEE. G. G. CORNWELL & SON, INC., Washington, D. C.
Filed October 22, 1920. Serial No. 138,669. PUBLISHED MARCH 15, 1921.

144,372. INTERNAL-COMBUSTION ENGINES FOR AEROPLANES, MOTOR-CARS, AND MOTORCYCLES. THE COSMOS ENGINEERING COMPANY LIMITED, Bristol, England.
Filed April 2, 1920. Serial No. 130,522. PUBLISHED MARCH 29, 1921.

144,373. INTERNAL-COMBUSTION ENGINES FOR AEROPLANES, MOTOR-CARS, AND MOTORCYCLES. THE COSMOS ENGINEERING COMPANY LIMITED, Bristol, England.
Filed April 2, 1920. Serial No. 130,523. PUBLISHED MARCH 29, 1921.

144,374. CERTAIN NAMED ELECTRIC INSULATING SUPPLIES. ALBERT J. COX COMPANY, Chicago, Ill.
Filed November 3, 1920. Serial No. 139,110. PUBLISHED MARCH 22, 1921.

144,375. LIVER AND STOMACH MEDICINE. COX MEDICINE COMPANY, Omega, Ga.
Filed August 30, 1920. Serial No. 136,618. PUBLISHED MARCH 15, 1921.

144,376. WAR GAME. EUGENE J. DALEY, Jr., San Francisco, Calif.
Filed August 28, 1920. Serial No. 136,362. PUBLISHED MARCH 22, 1921.

144,377. CHEMICAL CARBON-REMOVING COMPOUND FOR THE CYLINDERS OF INTERNAL-COMBUSTION ENGINES. CHARLES T. DAILY, West Orange, N. J.
Filed October 7, 1920. Serial No. 138,045. PUBLISHED MARCH 15, 1921.

144,378. GAS-ENGINE-FUEL IMPROVER. ALEXANDER DANVILLE, Chicago, Ill.
Filed July 10, 1920. Serial No. 134,776. PUBLISHED MARCH 15, 1921.

144,379. PHONOGRAPHS. DAVENPORT CABINET WORKS, Davenport, Iowa.
Filed October 8, 1919. Serial No. 123,535. PUBLISHED MARCH 2, 1920.

144,380. CERTAIN NAMED ELECTRICAL APPLIANCES. THE A. DEWES COMPANY, New York, N. Y.
Filed August 23, 1920. Serial No. 136,361. PUBLISHED MARCH 1, 1921.

144,381. GENERAL TONIC. FRANK A. EAST, Boston, Mass.
Filed February 25, 1920. Serial No. 128,884. PUBLISHED MARCH 15, 1921.

144,382. CERTAIN TOOLS FOR HAND AND MACHINE USE. EASTERBROOK ALLCARD & CO. LIMITED, Sheffield, England.
Filed August 23, 1920. Serial No. 136,364. PUBLISHED MARCH 22, 1921.

144,383. PHONOGRAPH-RECORDS. THOMAS A. EDISON, INCORPORATED, West Orange, N. J.
Filed December 7, 1918. Serial No. 114,534. PUBLISHED MARCH 23, 1920.

144,384. PORTLAND CEMENT. THE EDISON PORTLAND CEMENT COMPANY, West Orange and New Village, N. J., and New York, N. Y.
Filed April 12, 1920. Serial No. 131,020. PUBLISHED MARCH 29, 1921.

144,385. LINEN, COTTON, AND OTHER FABRIC ENDLESS BELTS. ENDLESS BELT CORPORATION, INC., New York, N. Y.
Filed November 28, 1919. Serial No. 125,374. PUBLISHED MARCH 29, 1921.

144,386. LINEN, COTTON, AND OTHER FABRIC BELTS. ENDLESS BELT CORPORATION, INC., New York, N. Y.
Filed November 28, 1919. Serial No. 125,376. PUBLISHED MARCH 29, 1921.

144,387. MEDICINAL PREPARATION FOR CERTAIN NAMED PURPOSES. ESKO PRODUCTS COMPANY, Phillipsburg, N. J.
Filed October 13, 1920. Serial No. 138,255. PUBLISHED MARCH 22, 1921.

144,388. OIL-ENGINES. EVINRUDE MOTOR COMPANY, Milwaukee, Wis.
Filed January 15, 1920. Serial No. 127,173. PUBLISHED MARCH 29, 1921.

144,389. FERTILIZERS. THE FERTILE CHEMICAL CO., Cleveland, Ohio.
Filed February 26, 1919. Serial No. 116,152. PUBLISHED MARCH 29, 1921.

144,390. FIRE-EXTINGUISHING COMPOUND. FI-ER-KIL COMPANY, San Francisco, Calif.
Filed August 31, 1920. Serial No. 136,677. PUBLISHED MARCH 15, 1921.

144,391. RESILIENT TIRES COMPOSED OF RUBBER OR RUBBER AND FABRIC AND INNER TUBES. THE FIRESTONE TIRE AND RUBBER COMPANY, Akron, Ohio.
Filed October 20, 1919. Serial No. 123,974. PUBLISHED MARCH 29, 1921.

144,392. AUTOMATIC AUTOMOBILE-JACKS. LOUIS M. FISHER, Clarksdale, Mo.
Filed May 21, 1920. Serial No. 132,735. PUBLISHED MARCH 22, 1921.

144,393. CHAINS FOR PERSONAL ADORNMENT WHICH ARE MADE OF OR PLATED WITH PRECIOUS METAL. FORSTNER CHAIN CORPORATION, Irvington, N. J.
Filed October 30, 1920. Serial No. 138,984. PUBLISHED MARCH 22, 1921.

144,394. CHAINS FOR PERSONAL ADORNMENT WHICH ARE MADE OF OR PLATED WITH PRECIOUS METAL. FORSTNER CHAIN CORPORATION, Irvington, N. J.
Filed November 1, 1920. Serial No. 139,028. PUBLISHED MARCH 22, 1921.

144,395. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. ALEATHIA DELILAH FRANKLIN, Daytona, Fla.
Filed April 12, 1920. Serial No. 131,006. PUBLISHED MARCH 15, 1921.

144,396. CIGARS, CIGARETTES, AND SMOKING-TOBACCO, CHEWING-TOBACCO, AND SCRAP-TOBACCO. SIDNEY J. FREEMAN & SON, New York, N. Y.
Filed August 30, 1920. Serial No. 136,625. PUBLISHED MARCH 15, 1921.

144,397. PHONOGRAPH-RECORDS. FUNK & WAGNALLS COMPANY, New York, N. Y.
Filed June 10, 1920. Serial No. 133,530. PUBLISHED MARCH 8, 1921.

144,398. LUMINOUS PAINTS CONTAINING RADIOACTIVE SUBSTANCES. GEBRÜDER JUNGHANS A.-G., Schramberg, Germany.
Filed May 27, 1919. Serial No. 118,963. PUBLISHED MARCH 22, 1921.

144,399. LUMINOUS PAINTS CONTAINING RADIOACTIVE SUBSTANCES. GEBRÜDER JUNGHANS A.-G., Schramberg, Germany.
Filed May 27, 1919. Serial No. 118,964. PUBLISHED MARCH 22, 1921.

144,400. HARDENING LIQUID FOR TREATING CONCRETE FLOORS. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 2, 1920. Serial No. 129,136. PUBLISHED MARCH 29, 1921.

144,401. CERTAIN NAMED VALVES, BELTING, HOSE, PACKINGS, TIRES, WASHERS, RELINERS, AND REPAIR-PLUGS. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed March 8, 1920. Serial No. 129,382. PUBLISHED MARCH 15, 1921.

144,402. PUMP-VALVES MADE WHOLLY OR PARTLY OF RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed May 3, 1920. Serial No. 131,954. PUBLISHED MARCH 15, 1921.

144,403. PREPARATION FOR USE IN THE TREATMENT OF ASTHMA. CECILE CLAIRE GOUAUX, Houma, La.
Filed July 7, 1920. Serial No. 134,641. PUBLISHED MARCH 15, 1921.

144,404. FURNITURE-POLISH. GRAND UNION TEA CO., Brooklyn, N. Y.
Filed November 14, 1919. Serial No. 124,892. PUBLISHED MARCH 29, 1921.

144,405. AUTOMOBILES AND MOTOR-TRUCKS. GREGORY-CRAUN MOTOR CO., Kansas City, Mo.
Filed November 13, 1920. Serial No. 139,613. PUBLISHED MARCH 15, 1921.

144,406. LINIMENT, HAIR-TONIC, AND PILE-OINTMENT. JOHN HARRIS GRIFFITH, Marietta, Ga.
Filed September 14, 1920. Serial No. 137,170. PUBLISHED MARCH 15, 1921.

144,407. MEDICINAL TREATMENT FOR DRUNKENNESS. DR. M. F. GROVES SON & CO., Philadelphia, Pa.
Filed October 7, 1920. Serial No. 138,049. PUBLISHED MARCH 15, 1921.

144,408. MEDICINAL TREATMENT FOR INFANTILE TROUBLES—VIZ., TEETHING AND COLIC. DR. M. F. GROVES SON & CO., Philadelphia, Pa.
Filed October 7, 1920. Serial No. 138,050. PUBLISHED MARCH 15, 1921.

144,409. WATCHES AND WATCH-MOVEMENTS. ROLAND A. GSELL, New York, N. Y.
Filed April 15, 1920. Serial No. 131,165. PUBLISHED AUGUST 24, 1920.

144,410. CERTAIN ARTICLES OF CLOTHING. HALL HARTWELL & CO., Troy, N. Y.
Filed September 5, 1919. Serial No. 122,353. PUBLISHED MARCH 29, 1921.

144,411. CERTAIN ARTICLES OF CLOTHING. HALL HARTWELL & CO., Troy, N. Y.
Filed September 6, 1919. Serial No. 122,397. PUBLISHED MARCH 29, 1921.

144,412. INK-ERADICATOR—NAMELY, A CHEMICAL PREPARATION FOR REMOVING INK. MARCIA C. HAMBLET, Salem, Mass.
Filed June 8, 1920. Serial No. 133,417. PUBLISHED MARCH 22, 1921.

144,413. MEDICINAL PREPARATION INDICATED IN THE TREATMENT OF THE LIVER AND KIDNEYS. WILLIAM L. HARALSON, Fort Payne, Ala.
Filed June 30, 1920. Serial No. 134,420. PUBLISHED MARCH 15, 1921.

144,414. HAIR-RESTORER. GOLDSON R. HENDERSON, Detroit, Mich.
Filed October 11, 1920. Serial No. 138,167. PUBLISHED MARCH 15, 1921.

144,415. PHONOGRAPHS, TALKING-MACHINES, REPRODUCERS, AND PHONOGRAPH AND TALKING-MACHINE PARTS. PERCY JACKSON HIGGS, New York, N. Y.
Filed November 25, 1919. Serial No. 125,283. PUBLISHED MARCH 29, 1921.

144,416. STORAGE BATTERIES. HOBBS LABORATORIES INC., Los Angeles, Calif.
Filed November 11, 1920. Serial No. 139,533. PUBLISHED MARCH 1, 1921.

144,417. GELATIN COMPOUND USED IN THE JANNEY REPRODUCTION PROCESS. E. S. HOLLAND CO., INC., New York, N. Y.
Filed October 12, 1920. Serial No. 138,227. PUBLISHED MARCH 22, 1921.

144,418. INSULATED WIRE AND CABLE. ILLINOIS WIRE & CABLE COMPANY, Sycamore, Ill.
Filed April 29, 1920. Serial No. 131,796. PUBLISHED MARCH 1, 1921.

144,419. HAIR AND SCALP SHAMPOO PREPARATIONS. SELIGMAN AND LATZ, New York, N. Y.
Filed April 24, 1920. Serial No. 131,605. PUBLISHED MARCH 15, 1921.

144,420. NON-ALCOHOLIC BEVERAGES IN THE FORM OF A SYRUP OR CARBONATED IN BOTTLES. SOUTHERN BEVERAGE COMPANY, Galveston, Tex.
Filed April 22, 1920. Serial No. 131,509. PUBLISHED JULY 6, 1920.

144,421. TOILET SOAPS, SHAVING-SOAP, SHAVING-CREAM. MAXSON F. JUDELL, New York, N. Y.
Filed August 2, 1920. Serial No. 135,720. PUBLISHED MARCH 15, 1921.

144,422. BRAKE-LININGS AND CLUTCH-FACINGS. J. RUSSELL KELSO, Trenton, N. J.
Filed August 5, 1919. Serial No. 121,279. PUBLISHED MARCH 15, 1921.

144,423. INSECT-EXTERMINATOR. KENASKI BROS., Jersey City, N. J.
Filed October 9, 1920. Serial No. 138,128. PUBLISHED MARCH 15, 1921.

144,424. ELECTRIC MASSAGE-MACHINES. CHARLES W. KENT, Peoria, Ill.
Filed May 29, 1920. Serial No. 133,094. PUBLISHED MARCH 22, 1921.

144,425. PREPARATION FOR BEAUTIFYING AND PROMOTING GROWTH OF THE EYELASHES AND EYEBROWS. LASHBROW LABORATORIES CO., St. Louis, Mo.
Filed February 20, 1918. Serial No. 109,132. PUBLISHED MARCH 29, 1921.

144,426. FABRIC AND RUBBER REPAIR PATCHES. LAS-STIK PATCH MFG. CO., Hamilton, Ohio.
Filed November 12, 1920. Serial No. 139,583. PUBLISHED MARCH 15, 1921.

144,427. SHEET-PAPER, PARTICULARLY IN THE FORM OF WRITING-PAPER AND BRISTOL-BOARD. GEO. A. LEHMANN PAPER COMPANY INC., New York, N. Y.
Filed September 30, 1920. Serial No. 137,783. PUBLISHED APRIL 12, 1921.

144,428. PHARMACEUTICAL PREPARATIONS. VICTORIA LIMA, Mexico, Mexico.
Filed July 31, 1920. Serial No. 135,650. PUBLISHED MARCH 15, 1921.

144,429. CANNED FRUITS, VEGETABLES, FISH, CANE AND MAPLE SYRUP, HONEY, JAMS, PORK AND BEANS, AND COFFEE. THE BON I. LOOK STORES COMPANY, Denver, Colo.
Filed July 21, 1920. Serial No. 135,226. PUBLISHED MARCH 15, 1921.

144,430. OIL AND GAS WELL DRILLING OR BORING APPARATUS AND ACCESSORIES. LUCEY MANUFACTURING CORPORATION, New York, N. Y.
Filed October 24, 1919. Serial No. 124,145. PUBLISHED MARCH 29, 1921.

144,431. MEDICINAL PREPARATION FOR CERTAIN NAMED PURPOSES. JOSEPH J. MCINTYRE, Brooklyn, N. Y.
Filed January 13, 1920. Serial No. 127,096. PUBLISHED MARCH 15, 1921.

144,432. HOSIERY. SAMUEL MANN, New York, N. Y.
Filed October 30, 1920. Serial No. 138,992. PUBLISHED MARCH 1, 1921.

144,433. RUBBER TIRES, CASINGS, AND TUBES. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed October 28, 1919. Serial No. 124,276. PUBLISHED MARCH 29, 1921.

144,434. PIANOS, ORGANS, ORCHESTRIONS, AND PHONOGRAPHS. THE MARQUETTE PIANO COMPANY, Chicago, Ill.
Filed August 12, 1919. Serial No. 121,597. PUBLISHED MARCH 29, 1921.

144,435. LUMBER. MAY BROTHERS, Memphis, Tenn.
Filed July 19, 1920. Serial No. 135,310. PUBLISHED MARCH 15, 1921.

144,436. LUMBER. MAY BROTHERS, Memphis, Tenn.
Filed July 19, 1920. Serial No. 135,311. PUBLISHED MARCH 15, 1921.

144,437. LUMBER. MAY BROTHERS, Memphis, Tenn.
Filed July 19, 1920. Serial No. 135,312. PUBLISHED MARCH 15, 1921.

144,438. LUMBER. MAY BROTHERS, Memphis, Tenn.
Filed July 19, 1920. Serial No. 135,313. PUBLISHED MARCH 15, 1921.

144,439. WATCHES, CLOCKS, AND PARTS THEREOF. MEYER & STÜDELI, London, England.
Filed April 12, 1920. Serial No. 131,030. PUBLISHED MARCH 1, 1921.

144,440. WATCHES, CLOCKS, AND PARTS THEREOF. MEYER & STÜDELI, London, England.
Filed April 12, 1920. Serial No. 131,031. PUBLISHED MARCH 1, 1921.

144,441. FOUNTAIN-PENS, GOLD PEN-POINTS, POCKET-CLIPS, AND LEAD-PENCILS. STEPHEN J. MEYERPETER, Chicago, Ill.
Filed October 18, 1920. Serial No. 138,447. PUBLISHED MARCH 1, 1921.

144,442. FACE-CREAM, COLD-CREAM, VANISHING CREAM, AND HAIR-DRESSING. MILLER-LAMBERT CHEMICAL CO. INC., Columbia, S. C.
Filed October 14, 1920. Serial No. 138,294. PUBLISHED MARCH 22, 1921.

144,443. AUTOMOBILE-RADIATORS. MODINE MANUFACTURING COMPANY, Racine, Wis.
Filed January 12, 1918. Serial No. 108,432. PUBLISHED MARCH 22, 1921.

144,444. COLORING-MATTER SUITABLE FOR THE COLORING OF HAIR. BLANCHE W. MOE, Chicago, Ill.
Filed August 25, 1920. Serial No. 136,477. PUBLISHED MARCH 15, 1921.

144,445. CERTAIN NAMED ELECTRICAL APPARATUS. NATIONAL CARBON COMPANY, INC., Cleveland, Ohio.
Filed November 8, 1917. Serial No. 107,244. PUBLISHED MARCH 1, 1921.

144,446. LAUNDRY-HAMPERS OR CLOTHES-HAMPERS. NATIONAL VENEER PRODUCTS COMPANY, Mishawaka, Ind.
Filed May 1, 1919. Serial No. 118,062. PUBLISHED MARCH 22, 1921.

144,447. MEDICINAL PREPARATION FOR USE IN INFLUENZA AND LA GRIPPE. JOHN J. NORTON, Laurel, Md.
Filed August 6, 1920. Serial No. 135,860. PUBLISHED MARCH 15, 1921.

144,448. COFFEE. PENNSYLVANIA COFFEE COMPANY, Pittsburgh, Pa.
Filed October 8, 1920. Serial No. 138,097. PUBLISHED MARCH 15, 1921.

144,449. BEDSTEADS, METAL FOLDING BEDS, METAL COUCHES, WOVEN-WIRE MATTRESSES, AND COTTON-FABRIC MATTRESSES. PITTSBURGH IRON FOLDING BED CO., Pittsburgh, Pa.
Filed August 30, 1920. Serial No. 136,643. PUBLISHED MARCH 15, 1921.

144,450. FERTILIZER. THE POCOMOKE GUANO CO., Norfolk, Va.
Filed February 7, 1920. Serial No. 128,110. PUBLISHED MARCH 29, 1921.

144,451. PLAYER-PIANOS. PRICE AND TEEPLE PIANO COMPANY, Chicago, Ill.
Filed June 14, 1919. Serial No. 119,613. PUBLISHED MARCH 1, 1921.

144,452. SOLDERING-FLUXES, (SALTS, FLUIDS, AND PASTE,) TINNING-FLUXES, DIPPING-FLUXES, AND PICKLING-FLUXES. READE MANUFACTURING COMPANY, Hoboken, N. J.
Filed November 17, 1919. Serial No. 125,020. PUBLISHED MARCH 22, 1921.

144,453. FRESH APPLES. RELIABLE FRUIT & PRODUCE CO., Yakima, Wash.
Filed October 20, 1920. Serial No. 138,591. PUBLISHED MARCH 15, 1921.

144,454. NON-ALCOHOLIC BEVERAGE MADE FROM HOPS, MALT, AND CEREALS, SOLD AS A SOFT DRINK. THE RENNER COMPANY, Youngstown, Ohio.
Filed April 7, 1919. Serial No. 117,249. PUBLISHED MARCH 29, 1921.

144,455. TITLE FOR A PERIODICAL. RETAIL CREDIT MEN'S NATL. ASSN., St. Louis, Mo.
Filed September 4, 1919. Serial No. 122,311. PUBLISHED MARCH 22, 1921.

144,456. RUBBER NIPPLES. REVERE RUBBER COMPANY, Providence, R. I.
Filed July 1, 1916. Serial No. 96,277. PUBLISHED MARCH 1, 1921.

144,457. CERTAIN INSTRUMENTS AND APPLIANCES OF PARTICULAR METALS FOR LABORATORIES. THE RHOTANIUM COMPANY, Cleveland, Ohio.
Filed February 16, 1918. Serial No. 109,039. PUBLISHED MARCH 22, 1921.

144,458. CERTAIN INSTRUMENTS AND APPLIANCES OF PARTICULAR METALS FOR LABORATORIES. THE RHOTANIUM COMPANY, Cleveland, Ohio.
Filed February 16, 1918. Serial No. 109,040. PUBLISHED MARCH 22, 1921.

144,459. ELECTRIC VACUUM-CLEANERS, STATIONARY AND PORTABLE. RICHMOND RADIATOR COMPANY, New York, N. Y.
Filed July 15, 1920. Serial No. 135,020. PUBLISHED MARCH 1, 1921.

144,460. MOTION-PICTURES. ROBERTSON-COLE COMPANY, New York, N. Y.
Filed August 13, 1920. Serial No. 136,092. PUBLISHED MARCH 15, 1921.

144,461. CERTAIN NAMED LINIMENT. BUNYAN ROBINS, Richmond, Va.
Filed September 1, 1920. Serial No. 136,728. PUBLISHED MARCH 15, 1921.

144,462. CAN-OPENERS, APPLE-CORERS, CAKE-TURNERS, AND MIXING, SKIMMING, AND KITCHEN SPOONS. ROCKFORD METAL SPECIALTY COMPANY, Rockford, Ill.
Filed February 16, 1920. Serial No. 128,465. PUBLISHED MARCH 22, 1921.

144,463. GINGER-ALE. MAURICE ROTHSTEIN, Johnstown, Pa., assignor to Johnstown Bottling Company, Inc., Johnstown, Pa., a Corporation of Pennsylvania.
Filed April 9, 1920. Serial No. 130,908. PUBLISHED MARCH 29, 1921.

144,464. CERTAIN NAMED MEDICINAL PREPARATIONS. CHARLES W. ROVEGNO, Brooklyn, N. Y.
Filed May 15, 1916. Serial No. 95,154. PUBLISHED MARCH 29, 1921.

144,465. ELASTIC WEBBINGS, LADIES' DRESS-BELTING, GARTERS, HOSE-SUPPORTERS, AND SUSPENDERS. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn.
Filed April 26, 1920. Serial No. 131,666. PUBLISHED FEBRUARY 15, 1921.

144,466. TRACTORS, INTERNAL-COMBUSTION ENGINES, AND CERTAIN AGRICULTURAL MACHINERY AND IMPLEMENTS. SAMSON TRACTOR COMPANY, Janesville, Wis.
Filed November 3, 1920. Serial No. 139,132. PUBLISHED MARCH 22, 1921.

144,467. SATEEN IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 10, 1920. Serial No. 139,481. PUBLISHED MARCH 15, 1921.

144,468. PNEUMATIC SHOCK-ABSORBERS. SEIBEL AIR-SPRING COMPANY INCORPORATED, Phoenix, Ariz., and San Francisco, Calif.
Filed August 5, 1920. Serial No. 135,826. PUBLISHED MARCH 15, 1921.

144,469. AUTOMOBILES AND MOTOR-TRUCKS. SELDEN TRUCK CORPORATION, Rochester, N. Y.
Filed February 3, 1920. Serial No. 127,936. PUBLISHED MARCH 29, 1921.

144,470. MATCHES. SERV-US GROCERY PRODUCTS CORPORATION, New York, N. Y.
Filed September 9, 1920. Serial No. 137,003. PUBLISHED MARCH 15, 1921.

144,471. GENERAL ANTISEPTIC FLUID. ALEX. D. SHAW & CO., New York, N. Y.
Filed February 10, 1920. Serial No. 128,220. PUBLISHED MARCH 29, 1921.

144,472. HAIR-GROWER. ROSA B. SHIELDS, Omaha, Nebr.
Filed August 3, 1920. Serial No. 135,767. PUBLISHED MARCH 22, 1921.

144,473. MATTRESSES AND PILLOWS. ALBERT H. SLATER, Paterson, N. J.
Filed July 16, 1920. Serial No. 135,078. PUBLISHED MARCH 1, 1921.

144,474. ROASTED COFFEE, VINEGAR, PREPARED MUSTARD, PEANUT-BUTTER, SPICES IN PACKAGES, AND SALTED PEANUTS. SMART & FINAL CO., Santa Ana, Calif.
Filed November 10, 1920. Serial No. 139,475. PUBLISHED MARCH 22, 1921.

144,475. CERTAIN NAMED MEDICINAL PREPARATIONS. SHOBES-MUELLER COMPANY, Cedar Rapids, Iowa.
Filed April 8, 1920. Serial No. 130,854. PUBLISHED MARCH 22, 1921.

144,476. NAILS, BOLTS, SCREWS, METALLIC HANDLES FOR FURNITURE, AND CERTAIN METAL ARTICLES FOR HOUSEHOLD USE. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed July 12, 1919. Serial No. 120,499. PUBLISHED MARCH 22, 1921.

144,477. AUTOMOBILES. SOCIETE DES MOTEURS GNOME ET RHONE, Paris, France.
Filed December 27, 1919. Serial No. 126,546. PUBLISHED MARCH 15, 1921.

144,478. MOTORCYCLES. SOCIÉTÉ D'EMBOUTISSAGE ET DE CONSTRUCTIONS MÉCANIQUES, Colombes, France.
Filed October 15, 1920. Serial No. 138,347. PUBLISHED MARCH 15, 1921.

144,479. NOSE-RINGS FOR ANIMALS. STEWART HOG RING COMPANY, Paris, Ill.
Filed December 27, 1919. Serial No. 126,544. PUBLISHED MARCH 22, 1921.

144,480. LEDGER, WRITING, AND PRINTING PAPERS. STONE & ANDREW INC., Boston, Mass.
Filed December 16, 1919. Serial No. 126,144. PUBLISHED MARCH 22, 1921.

144,481. CERTAIN NAMED TREADS. SURE-ON TIRE SAVER CO., Chicago, Ill.
Filed May 19, 1920. Serial No. 132,661. PUBLISHED MARCH 22, 1921.

144,482. PULLING-CANDY. SYD S. TAYLOR, Brooklyn, N. Y.
Filed October 14, 1920. Serial No. 138,308. PUBLISHED MARCH 15, 1921.

144,483. COFFEE. JOHN A. TOLMAN & COMPANY, Chicago, Ill.
Filed November 20, 1920. Serial No. 139,915. PUBLISHED MARCH 15, 1921.

144,484. CERTAIN NAMED GAMES AND TOYS. THE TOY TINKERS, Evanston, Ill.
Filed March 15, 1920. Serial No. 129,754. PUBLISHED MARCH 15, 1921.

144,485. A LAXATIVE TABLET. UNITED STATES CHEMICAL CO., Pittsburgh, Pa.
Filed October 11, 1920. Serial No. 138,195. PUBLISHED MARCH 15, 1921.

144,486. SOLE-LEATHER. THE UNITED STATES LEATHER COMPANY, New York, N. Y.
Filed March 3, 1920. Serial No. 129,197. PUBLISHED SEPTEMBER 14, 1920.

144,487. ELECTRIC-LIGHTING FIXTURES. VOIGT COMPANY, Philadelphia, Pa.
Filed November 10, 1920. Serial No. 139,487. PUBLISHED MARCH 1, 1921.

144,488. CERTAIN NAMED MEDICINAL PREPARATIONS. SPERO G. VRYONIS, Bridgeport, Conn.
Filed October 27, 1919. Serial No. 124,242. PUBLISHED MARCH 15, 1921.

144,489. SUITS AND OVERCOATS FOR MEN, WOMEN, AND BOYS. WALLACE, SCOTT & CO., LIMITED, Cathcart, Glasgow, Scotland.
Filed June 26, 1920. Serial No. 134,287. PUBLISHED NOVEMBER 9, 1920.

144,490. MEDICINAL COMPOUND FOR THE TREATMENT OF DERANGEMENT OF THE STOMACH AND BOWELS OF INFANTS. THE WARE CHEMICAL CO., Dallas, Tex.
Filed September 9, 1920. Serial No. 137,019. PUBLISHED MARCH 15, 1921.

144,491. COTTON-PICKERS' SACKS. J. W. WATKINS & Co. INC., McKenzie, Tenn.
Filed August 16, 1920. Serial No. 136,178. PUBLISHED MARCH 22, 1921.

144,492. NON-INTOXICATING, CEREAL, MALTLESS BEVERAGES CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL. THE WEST END BREWING CO., Utica, N. Y.
Filed January 20, 1920. Serial No. 127,409. PUBLISHED MARCH 29, 1921.

144,493. TELEPHONE APPARATUS. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed November 13, 1920. Serial No. 139,642. PUBLISHED MARCH 1, 1921.

144,494. FRICTION-TAPE. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed November 13, 1920. Serial No. 139,643. PUBLISHED MARCH 1, 1921.

144,495. CORNMEAL. WESTERN GRAIN COMPANY, Fort Smith, Ark.
Filed September 20, 1919. Serial No. 122,956. PUBLISHED MARCH 22, 1921.

144,496. SHAMPOO. E. E. WHITELEY, Temple, Tex.
Filed September 9, 1920. Serial No. 137,020. PUBLISHED MARCH 15, 1921.

144,497. STORAGE BATTERIES AND PARTS THEREOF. WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio.
Filed May 24, 1920. Serial No. 132,903. PUBLISHED MARCH 22, 1921.

144,498. LIVE STOCK—NAMELY, HORSES, SHEEP, CATTLE, AND HOGS. LEDRU C. WILLITS, Mount Pleasant, Iowa.
Filed November 20, 1920. Serial No. 139,917. PUBLISHED MARCH 15, 1921.

144,499. FRESH DECIDUOUS FRUITS. CLAUDIUS C. WOODWORTH, Lodi, Calif.
Filed August 24, 1920. Serial No. 136,453. PUBLISHED MARCH 22, 1921.

144,500. TOILET-PAPER, PAPER NAPKINS, AND PAPER TOWELS. WORTENDYKE MANUFACTURING Co., Richmond, Va.
Filed October 29, 1920. Serial No. 138,970. PUBLISHED DECEMBER 28, 1920.

144,501. CHEWING-GUM. WM. WRIGLEY JR. COMPANY, Chicago, Ill.
Filed December 26, 1919. Serial No. 126,499. PUBLISHED MARCH 22, 1921.

144,502. PORTABLE ELECTRIC LAMPS AND CONDUIT-FITTINGS. S. ROBERT SCHWARTZ & BRO., New York, N. Y.
Filed October 29, 1920. Serial No. 138,962. PUBLISHED MARCH 22, 1921.

144,503. TYPEWRITER-RIBBONS AND CARBON-PAPER. GEORGE F. YANCEY, New York, N. Y.
Filed July 27, 1918. Serial No. 112,371. PUBLISHED MARCH 1, 1921.

144,504. CANDY LAXATIVE. JOSEPH F. ZINGALE, Brooklyn, N. Y.
Filed September 13, 1920. Serial No. 137,161. PUBLISHED FEBRUARY 22, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 5, 1921.

144,505. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ALTON MERCANTILE COMPANY, Enid, Okla. Filed Oct. 20, 1920. Serial No. 138,529.



Particular description of goods.—Canned Vegetables, Canned Fruits, Canned Fish; Canned Meats—Namely, Minced Meat, Sausage, and Beef; Candy, Chocolate, Cocoa, Shredded Cocoanut, Coffee, Food-Flavoring Extracts, Tapioca, Self-Rising Flour, Dried Fruit, Gelatin, Jell, Cake-Icing, Ice-Cream Powder, Honey, Evaporated Milk, Mince-Meat, Mustard Dressing, Olive-Oil, Peanut Salad-Oil, Olives, Peanut-Butter, Pickles, Rice, Catsup, Pepper Sauce, Salad-Dressing, Spice, Powdered Sugar, Colored Sugar, Tea, Vinegar, Macaroni, Spaghetti, Vermicelli, Rolled Oats, Table-Syrup, Evaporated Corn, and Salted Peanuts.
Claims use since Jan. 1, 1905.

144,506. (CLASS 12. CONSTRUCTION MATERIALS.) AMERICAN ENCAUSTIC TILING CO. LTD., Zanesville, Ohio, and New York, N. Y. Filed Mar. 24, 1916. Serial No. 93,819.

HISPANIC

Particular description of goods.—Wall, Floor, and Ceiling Tiles for Interior and Exterior Purposes.
Claims use since July 1, 1915.

144,507. (CLASS 7. CORDAGE.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Nov. 11, 1920. Serial No. 139,498.

NIAGARA

Particular description of goods.—Rope, Cord, and Twine Manufactured from Vegetable Fiber.
Claims use since Dec. 31, 1912.

144,508. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE AMERICAN PIN COMPANY, Waterbury, Conn. Filed Mar. 28, 1921. Serial No. 145,302.

WedgePoint

Particular description of goods.—Pins for Bank and General Office Use.
Claims use since Mar. 15, 1915.

144,509. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed May 2, 1921. Serial No. 147,076.

DOUBLE GROUND

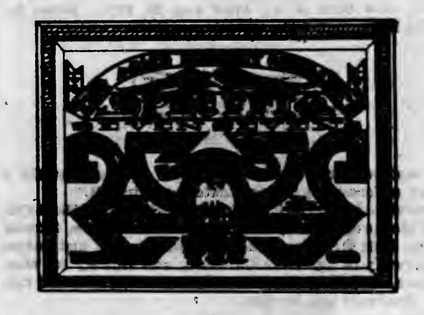
Particular description of goods.—Tripoli Flour, (Ground Tripoli Stone.)
Claims use since Dec. 1, 1919.

144,510. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed May 2, 1921. Serial No. 147,078.

AIR-FLOAT

Particular description of goods.—Tripoli Flour, (Ground Tripoli Stone.)
Claims use since Dec. 1, 1919.

144,511. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAY W. ANDY, Toledo, Ohio. Filed July 21, 1920. Serial No. 135,222.



Particular description of goods.—A Medicinal Preparation for Certain Named Purposes.
Claims use since Mar. 1, 1918.

144,512. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ATLANTIC CHEMICAL CO., Irvington, N. J. Filed Dec. 9, 1920. Serial No. 140,824.

NO-TARNISH

Particular description of goods.—Lacquer.
Claims use since Jan. 1, 1913.

144,513. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAKER R & L COMPANY, Cleveland, Ohio. Filed Aug. 27, 1920. Serial No. 136,541.

BAKER

Particular description of goods.—Axles for Vehicles.
Claims use since in or about 1898.

144,514. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE BAKER R & L COMPANY, Cleveland, Ohio. Filed Aug. 27, 1920. Serial No. 136,542.

BAKER

Particular description of goods.—Bodies or Frames for Vehicles.
Claims use since in or about 1898.

144,515. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) RAY H. BENNETT LUMBER CO., INC., North Tonawanda, N. Y. Filed Mar. 11, 1921. Serial No. 144,601.

Bennett Homes Better Built Ready-Cut

Particular description of goods.—Knockdown Houses.
Claims use since February, 1919.

144,516. (CLASS 39. CLOTHING.) THE BEST MILLS CO., New York, N. Y. Filed Aug. 26, 1920. Serial No. 136,504.

THE BEST

Consists of the words "The Best" arranged within a panel so formed as to accentuate the letter "B."
Particular description of goods.—Sweaters, Hand-Crochet Headwear; Fancy Knit Goods—viz., Bootees, Infants' Sacks, Knit Headwear, and Knit Scarfs; Silk and Cotton Underwear in One-Piece Garments, and Hosiery for Men, Women, and Children; Infants' Wear—viz., Silk and Cotton Headwear and Dresses.
Claims use since May 1, 1918.

144,517. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. B. CARR BISCUIT CO., Wilkes-Barre, Pa. Filed May 14, 1920. Serial No. 132,427.

EVERGOOD

Particular description of goods.—Soda Biscuits and Crackers.
Claims use since Jan. 1, 1919.

144,518. (CLASS 7. CORDAGE.) COLUMBIAN ROPE CO., Auburn, N. Y. Filed Apr. 19, 1921. Serial No. 146,875.

YUCATAN

Particular description of goods.—Rope, Twine, and Cordage of Vegetable Fiber.
Claims use since Oct. 14, 1913.

144,519. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONRAD CHEMICAL CO., Chicago, Ill. Filed Feb. 10, 1919. Serial No. 115,720.

Dyflake

Particular description of goods.—A Dye in Soap Form.
Claims use since about the latter part of August, 1918.

144,520. (CLASS 15. OILS AND GREASES.) CREW LEVICK COMPANY, Philadelphia, Pa. Filed July 24, 1920. Serial No. 135,360.

FOR SERVICE & SAVING

Particular description of goods.—Lubricating Oils and Greases.
Claims use since on or about January, 1920.

144,521. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CUPPLES COMPANY MANUFACTURERS, St. Louis, Mo. Filed Jan. 31, 1921. Serial No. 142,957.

CUPPLES

Particular description of goods.—Rubber Tires and Tubes.
Claims use since on or about Dec. 27, 1915.

144,522. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DODGE BROTHERS, Detroit, Mich. Filed Feb. 9, 1921. Serial No. 143,350.

DODGE BROTHERS

Particular description of goods.—Motor-Vehicles—Namely, Touring-Cars, Roadsters, Sedans, Coupés, Limousines, Taxicabs, Delivery-Cars, and Chassis—Together with Bodies for said Vehicles and Radiators for Same.
Claims use since Nov. 12, 1914.

144,523. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GARDNER-MCINNES CO., INC., New York, N. Y. Filed Apr. 22, 1921. Serial No. 146,547.

WEATHER WHITE

Particular description of goods.—Outside Paint for Houses, Barns, and other Structures.
Claims use since Mar. 1, 1920.

144,524. (CLASS 12. CONSTRUCTION MATERIALS.) GEORGE P. GOLDSMITH, San Francisco, Calif. Filed Mar. 9, 1920. Serial No. 129,459.

SCORFIL

Particular description of goods.—A Cement for Filling Fissures in Metals.
Claims use since June 1, 1919.

144,525. (CLASS 39. CLOTHING.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Mar. 9, 1921. Serial No. 144,310.

AKRON RUBBER SHOE CO.

Particular description of goods.—Boots and Shoes Made Wholly or Partly of Rubber.
Claims use since about 1905.

144,526. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GRAY & DAVIS INC., Cambridge, Mass. Filed June 3, 1920. Serial No. 133,206.

GRAY & DAVIS

Particular description of goods.—Electrical Systems—Namely, Electric Engine-Starting Systems, Ignition and Generating Systems, Switches, and Electric Lamps.
Claims use since the summer of 1896.

144,527. (CLASS 39. CLOTHING.) HOOD RUBBER COMPANY, Watertown, Mass. Filed Feb. 16, 1921. Serial No. 143,643.

WURKSHU

Particular description of goods.—Rubber Boots and Shoes.
Claims use since Apr. 23, 1915.

144,528. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) G. B. LEWIS COMPANY, Watertown, Wis. Filed Feb. 1, 1921. Serial No. 143,052.

BEEWARE

Particular description of goods.—Beehives and Certain Named Parts Thereof.
Claims use since 1904.

144,529. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MILWAUKEE BREWERY OF SAN FRANCISCO, San Francisco, Calif. Filed Mar. 17, 1920. Serial No. 129,854.

Golden State

Particular description of goods.—Cereal Beverage Containing Malt and Less Than One-Half of One Per Cent. of Alcohol.
Claims use since July 1, 1919.

144,530. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE NEW JERSEY ZINC COMPANY, Newark borough, Franklin, N. J. Filed Dec. 11, 1920. Serial No. 140,957.

STERLING

Particular description of goods.—Zinc Oxid.
Claims use since January, 1907.

144,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. L. ROBERTSON, Manassas, Va. Filed Nov. 6, 1920. Serial No. 139,309.

THE FLOWER OF FLOURS

Particular description of goods.—Wheat-Flour.
Claims use since January, 1918.

144,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHOENING-KOENIGSMARK MILLING CO., Valmeyer, Ill. Filed Feb. 23, 1921. Serial No. 143,959.

Dependable

Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since July, 1916.

144,533. (CLASS 39. CLOTHING.) HARRY SCHWARZ, St. Louis, Mo. Filed Nov. 15, 1919. Serial No. 124,955.

Westmoreland

Particular description of goods.—Women's and Girls' Waists.
Claims use since August, 1916.

144,534. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SEARS & NICHOLS CANNING CO., Chillicothe, Ohio. Filed Mar. 16, 1921. Serial No. 144,838.



Particular description of goods.—Canned Vegetables.
Claims use since 1888.

144,535. (CLASS 38. PRINTS AND PUBLICATIONS.) THE SHARPLES SPECIALTY COMPANY, Philadelphia, Pa. Filed Nov. 13, 1920. Serial No. 139,636.

Super Centrifugal Processes

Particular description of goods.—A Series of Pamphlets and Circulars.
Claims use since about March, 1918.

144,536. (CLASS 7. CORDAGE.) SILVER LAKE COMPANY, Newton, Mass. Filed Mar. 17, 1921. Serial No. 144,879.

WEARWELL

Particular description of goods.—Braided Cords.
Claims use since September, 1908.

144,537. (CLASS 15. OILS AND GREASES.) THOMAS W. SIMMONS COMPANY, San Francisco, Calif. Filed Oct. 11, 1920. Serial No. 138,190.

SIMMONS

Particular description of goods.—Gasolene and Kerosene.
Claims use since June, 1919.

144,538. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ST. LOUIS INDEPENDENT PACKING COMPANY, St. Louis, Mo. Filed July 8, 1920. Serial No. 134,728.

Kygrade

Particular description of goods.—Oleomargarin.
Claims use since May 7, 1917.

144,539. (CLASS 38. PRINTS AND PUBLICATIONS.) FELIX TAUSEND, New York, N. Y. Filed May 6, 1921. Serial No. 147,322.



Particular description of goods.—Annual and Periodical Price-Lists and Catalogues.
Claims use since Jan. 1, 1919.

144,540. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNION RUBBER & ASBESTOS CO., Trenton, N. J. Filed Nov. 22, 1920. Serial No. 139,996.

BEST-TEST

Particular description of goods.—Rubber Hose, Rubber and Asbestos Packing, and Brake-Lining.
Claims use since Nov. 1, 1919.

144,541. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. J. WHITTALL ASSOCIATES, Worcester, Mass. Filed Mar. 11, 1921. Serial No. 144,653.

Anglo-Persian

Particular description of goods.—Rugs and Carpets of Textile Material.
Claims use since about 1904.

144,542. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. J. WHITTALL ASSOCIATES, Worcester, Mass. Filed Mar. 11, 1921. Serial No. 144,654.

Anglo-Indian

Particular description of goods.—Rugs and Carpets of Textile Material.
Claims use since about 1904.

LABELS

REGISTERED JULY 5, 1921.

23,052.—*Title:* "TENEO." (For Snap-Fasteners.) AMERICAN FASTENER CO., Waterbury, Conn. Filed April 19, 1921.

23,053.—*Title:* "AMHO HEATH JACKET." (For Heath-Jackets, Garments for Sportsmen.) AMERICAN HOSIERY COMPANY, New Britain, Conn. Filed February 12, 1921.

23,054.—*Title:* "WARD'S CAKE." (For Cake.) THE H. D. BEACH CO., Coshocton, Ohio. Filed September 14, 1920.

23,055.—*Title:* "BEICH'S CHOCOLATE MILK NOUGAT." (For Candy.) PAUL F. BEICH COMPANY, Bloomington, Ill. Filed November 9, 1920.

23,056.—*Title:* "SWEET GRENNS." (For a Prepared Cereal Food.) EMILE BERLINER, Washington, D. C. Filed January 28, 1921.

23,057.—*Title:* "BON SANTÉ BAUME, A HOME TREATMENT FOR HEMORRHOIDS." (For Boxes Containing a Balm for Hemorrhoids.) BON SANTÉ COMPANY, De Land, Fla. Filed January 20, 1921.

23,058.—*Title:* "BON SANTÉ GLYCERINE TONIC." (For a General Systematic Tonic.) BON SANTÉ COMPANY, De Land, Fla. Filed January 30, 1921.

23,059.—*Title:* "BON SANTÉ LAXATIVE." (For Boxes Containing a Laxative Medicine.) BON SANTÉ COMPANY, De Land, Fla. Filed January 20, 1921.

23,060.—*Title:* "BON SANTÉ NERVE TONIC TABLETS." (For Nerve-Tonic Tablets for Tired Nerves.) BON SANTÉ COMPANY, De Land, Fla. Filed January 20, 1921.

23,061.—*Title:* "BON SANTÉ BAUME GOOD HEALTH BALM, A HOME TREATMENT FOR DISEASES OF WOMEN." (For Boxes Containing a Medicine for Diseases of Women.) BON SANTÉ COMPANY, De Land, Fla. Filed January 20, 1921.

23,062.—*Title:* "HELM'S CANDI-LAX." (For Fruit Laxative.) THE CANDI-LAX MFG. COMPANY, Cincinnati, Ohio. Filed April 27, 1920.

23,063.—*Title:* "HELM'S CANDI-LAX." (For Fruit Laxative.) THE CANDI-LAX MFG. COMPANY, Cincinnati, Ohio. Filed April 27, 1920.

23,064.—*Title:* "MIRACLE WASHING CRYSTAL." (For Washing Clothes, Windows, Woodwork, Dishes, and for Cleaning Purposes.) CARGILL BROTHERS, Washington, D. C. Filed March 24, 1921.

23,065.—*Title:* "ACME ARCH GRIP SHOE." (For Shoes.) GEO. E. CAFFIN SHOE CO. INC., Lynn, Mass. Filed March 24, 1921.

23,066.—*Title:* "OASIS." (For Beverages.) HARVEY CONOVER, Chicago, Ill. Filed February 16, 1920.

23,067.—*Title:* "DODGE." (For Canned Peaches.) DODGE, SWEENEY & CO., San Francisco, Calif. Filed April 22, 1921.

23,068.—*Title:* "DODGE." (For Canned Peas.) DODGE, SWEENEY & CO., San Francisco, Calif. Filed April 22, 1921.

23,069.—*Title:* "CHILDREN'S GREY SLEEPING GARMENT." (For Sleeping-Garments.) THE E-Z WAIST COMPANY, New York, N. Y. Filed March 17, 1921.

23,070.—*Title:* "FIRST NATIONAL TASTELESS SOLUTION OF EPSOM SALT." (For Bottles Containing a Tasteless Solution of Epsom Salt.) FIRST NATIONAL PHARMACY, Lehighton, Pa. Filed April 5, 1921.

23,071.—*Title:* "RAT FIRE." (For a Rat-Poison.) PHILLIP S. FRICK, Oswego, Kans. Filed April 11, 1921.

23,072.—*Title:* "GILMER WOVEN ENDLESS FAN BELTS." (For Fan-Belts.) L. H. GILMER COMPANY, Philadelphia, Pa. Filed November 2, 1920.

23,073.—*Title:* "GILMER WOVEN ENDLESS FORD FAN BELTS." (For Fan-Belts.) L. H. GILMER COMPANY, Philadelphia, Pa. Filed November 13, 1920.

23,074.—*Title:* "GILMER WOVEN ENDLESS FORD FAN BELTS." (For Fan-Belts.) L. H. GILMER COMPANY, Philadelphia, Pa. Filed November 13, 1920.

23,075.—*Title:* "GILMER WOVEN ENDLESS FAN BELTS FOR TRACTORS." (For Fan-Belts.) L. H. GILMER COMPANY, Philadelphia, Pa. Filed December 8, 1920.

23,076.—*Title:* "GILMER WOVEN ENDLESS FAN BELTS FOR TRUCKS." (For Fan-Belts.) L. H. GILMER COMPANY, Philadelphia, Pa. Filed December 8, 1820.

23,077.—*Title:* "$1 000 00 GUARANTEED ROACH KILLER." (For Cartons Containing Cans of a Roach-Killer.) B. HELLER & Co., Chicago, Ill. Filed January 20, 1921.

23,078.—*Title:* "ASEPTIFUME." (For a Preparation Used to Destroy Obnoxious Odors and for Purifying the Air in Coolers, Rendering-Rooms, and Hide-Rooms.) B. HELLER & Co., Chicago, Ill. Filed February 4, 1921.

23,079.—*Title:* "HELLER'S SANITARY FLUID." (For Containers Holding Heller's Sanitary Fluid, a Germicidal and Antiseptic Preparation.) B. HELLER & Co., Chicago, Ill. Filed March 24, 1921.

23,080.—*Title:* "JACKSON CORE." (For Automobile-Radiator Cores.) JACKSON AUTO RADIATOR CO., Chicago, Ill. Filed March 19, 1921.

23,081.—*Title:* "TOWLE'S WIGWAM." (For Syrup.) THE LOG CABIN PRODUCTS COMPANY, St. Paul, Minn. Filed March 16, 1921.

23,082.—*Title:* "CERTIFIED ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Certified Ice Cream Company, Chicago, Ill. Filed March 21, 1921.

23,083.—*Title:* "PREMIER BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Patton Creamery Company, Springfield, Mo. Filed March 21, 1921.

23,084.—*Title:* "KOTHLOW'S ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to G. H. Kothlow, Edgerton, Wis. Filed March 21, 1921.

23,085.—*Title:* "GOLD CHAIN." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Wright & Parker, Detroit, Mich. Filed April 11, 1921.

23,086.—*Title:* "BELLE MEADE BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Belle Meade Butter Company, Nashville, Tenn. Filed April 11, 1921.

23,087.—*Title:* "JERSEY." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Jersey Ice Cream Company, Chicago, Ill. Filed April 11, 1921.

23,088.—*Title:* "DELCOLATES." (For Boxes Containing Chocolate Creams, Milk-Chocolates, Nut Centers, and Nougats.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed December 18, 1920.

23,089.—*Title:* "FAVORITE CHOCOLATES." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed February 14, 1921.

23,090.—*Title:* "CHOCOLATE COATED DATES." (For Boxes Containing Chocolate-Coated Dates.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed February 14, 1921.

23,091.—*Title:* "LIFE SAVER PATS BUTTERSCOTCH." (For Candies with a Butter-Scotch Flavor.) MINT PRODUCTS COMPANY, INC., Port Chester, N. Y. Filed November 19, 1920.

23,092.—*Title:* "LIFE SAVER PATS LEMON." (For Candies with a Lemon Flavor.) MINT PRODUCTS COMPANY, INC., Port Chester, N. Y. Filed November 19, 1920.

23,093.—*Title:* "LIFE SAVER PATS ORANGE." (For Candies with an Orange Flavor.) MINT PRODUCTS COMPANY, INC., Port Chester, N. Y. Filed November 19, 1920.

23,094.—*Title:* "LIFE SAVER PATS LIME." (For Candies with a Lime Flavor.) MINT PRODUCTS COMPANY, INC., Port Chester, N. Y. Filed November 19, 1920.

23,095.—*Title:* "SHERRY SYRUP." (For Syrups for Mixing Soft Drinks.) MONARCH BITTERS CO., Buffalo, N. Y. Filed March 23, 1921.

23,096.—*Title:* "PORT SYRUP." (For Syrups for Mixing Soft Drinks.) MONARCH BITTERS CO., Buffalo, N. Y. Filed March 23, 1921.

23,097.—*Title:* "KISAKI." (For Nainsook.) CHARLES L. POOR CO., New York, N. Y. Filed Apr. 5, 1921.

23,098.—*Title:* "RUBBER SHOE REPAIR PATCH." (For Repair-Patches for Rubber Footwear.) ROBERTSON & SONS SHOE REPAIRERS, INC., New York, N. Y. Filed March 14, 1921.

23,099.—*Title:* "KIDDIE KNEAD." (For Bread.) RUCH-DROMPP GROCERY CO., Logansport, Ind. Filed April 7, 1921.

23,100.—*Title:* "SARGENT PAINT." (For Paint.) THE SARGENT-GERKE CO., Indianapolis, Ind. Filed March 22, 1921.

23,101.—*Title:* "JOLIET'S H. S. FINEST CIGAR." (For Cigars.) GEORGE SCHONTTER, Joliet, Ill. Filed April 21, 1921.

23,102.—*Title:* "LIQUID SALATONE." (For a Remedy for Epileptic Fits.) LILLY G. SHEDD, Detroit, Mich. Filed April 22, 1921.

23,103.—*Title:* "MRS. SHEPARD'S APPLE FLAKES." (For Packages or Containers Containing Flaked and Cooked Apples.) SHEPARD FRUIT PRODUCTS COMPANY, Wenatchee, Wash. Filed March 29, 1921.

23,104.—*Title:* "MALTED-MIL-KRISPS." (For a Popcorn Confection.) RALPH S. SHERRATT, St. Louis, Mo. Filed September 20, 1920.

23,105.—*Title:* "SMITH SMART SHOES." (For Shoes.) J. P. SMITH SHOE CO., Chicago, Ill. Filed March 14, 1921.

23,106.—*Title:* "A WAX FOR A GOOD DANCING FLOOR." (For a Preparation Specially Adapted for Use on Floors.) JOSEPH P. STRIDLE, Wilkes-Barre, Pa. Filed March 17, 1921.

23,107.—*Title:* "STEVENS KROS STITCH BEDSPREAD." (For Bedspreads.) STEVENS MANUFACTURING CO., Fall River, Mass. Filed April 2, 1921.

23,108.—*Title:* "SUN RIVER OINTMENT." (For Ointment.) SUN RIVER CHEMICAL COMPANY, New York, N. Y. Filed March 12, 1921.

23,109.—*Title:* "MRS. THOMPSON'S HOME DENTIST." (For a Preparation of Olive-Oil Ninety-Nine Per Cent. and Pure Vanilla One Per Cent. for Toothache.) MRS. IDA THOMPSON, Dunton, Long Island, N. Y. Filed April 21, 1920.

23,110.—*Title:* "WETPROOF." (For Shoe-Dressing.) PETER THORESON, Baldi, Wash. Filed April 11, 1921.

23,111.—*Title:* "BOULEVARD." (For Shoe-Trimmings and Top-Facing.) WOODWARD & COCHEY, INC., Lynn, Mass. Filed March 23, 1921.

23,112.—*Title:* "WRIGLEY'S PEPPERMINT CHEWING GUM." (For Chewing-Gum.) WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed December 10, 1920.

23,113.—*Title:* "WRIGLEY'S PEPPERMINT CHEWING GUM." (For Chewing-Gum.) WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed December 10, 1920.

PRINTS

REGISTERED JULY 5, 1921.

5,654.—*Title:* "VIRGINIES WILL DELIGHT YOU." (For Advertising Purposes for Canned Meat-Patties.) ACME PACKING CO., Chicago, Ill. Filed October 14, 1920.

5,655. *Title:* "THE LARGEST SELLING QUALITY PENCIL IN THE WORLD." (For Advertising Purposes for Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed April 10, 1920.

5,656.—*Title:* "THE LARGEST SELLING QUALITY PENCIL IN THE WORLD." (For Advertising Purposes for Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed April 10, 1920.

5,657.—*Title:* "YOU CAN'T MISTAKE THE FLAVOR." (For Peanut-Butter.) BEECH-NUT PACKING CO., Canajoharie, N. Y. Filed September 11, 1920.

5,658.—*Title:* "B. V. D. 1921 YOUTHS' UNION SUIT." (For Advertising Purposes for Athletic Underwear.) THE B. V. D. COMPANY, New York, N. Y. Filed March 12, 1921.

5,659.—*Title:* "NO UNDERWEAR IS B. V. D. WITHOUT THIS RED WOVEN LABEL." (For Advertising Purposes for Athletic Underwear.) THE B. V. D. COMPANY, New York, N. Y. Filed April 2, 1921.

5,660.—*Title:* "NOBRUSH." (For Shoe-Polish.) THE CLIMAX SPECIALTIES CO., INC., Jersey City, N. J. Filed April 13, 1921.

5,661.—*Title:* "I WISH DINNER'D HURRY." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed September 25, 1920.

5,662.—*Title:* "THE 1921 ORANGE JELL-O." (For Advertising Purposes for Orange Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed October 29, 1920.

5,663.—*Title:* "MOTHER'S BIRTHDAY." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed December 29, 1920.

5,664.—*Title:* "HARDEMAN HATS BETTER HATS FOR MEN." (For Hats.) J. T. HARDEMAN HAT CO., Seattle, Wash. Filed April 22, 1921.

5,665.—*Title:* "GOOD FOOD FOR YOUNG APPETITES HEINZ OVEN BAKED BEANS." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. HEINZ CO., Pittsburgh, Pa. Filed March 25, 1921.

5,666.—*Title:* "MAKES EATING MORE FUN." (For Heinz Apple-Butter.) H. J. HEINZ CO., Pittsburgh, Pa. Filed April 7, 1921.

5,667.—*Title:* "THERE'S A MEAL ALREADY COOKED' HEINZ SPAGHETTI READY COOKED READY TO SERVE." (For Heinz Cooked Spaghetti.) H. J. HEINZ CO., Pittsburgh, Pa. Filed April 7, 1921.

5,668.—*Title:* "I AM PENALIZED IF ONE COMES BACK." (For The Advertisement of Tires.) THE MILLER RUBBER CO., Akron, Ohio. Filed July 17, 1920.

5,669.—*Title:* "DUCK HEAD." (For Overalls.) O'BRYAN BROTHERS, INC., Nashville, Tenn. Filed March 7, 1921.

5,670.—*Title:* "THE COSMETIC OILS OF CLEOPATRA COMBINED IN A CAKE OF SOAP." (For Advertising Purposes for Palmolive Soap. THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed February 11, 1921.

5,671.—*Title:* "IT AINT TOOTHACHE—IT'S CLIMAX." (For Chewing-Tobacco.) P. LORILLARD COMPANY, INC., New York, N. Y. Filed December 24, 1919.

5,672.—*Title:* "OLD RUBBERS MADE NEW." (For Advertising Purposes for Repair-Patches for Rubber Footwear.) ROBERTSON & SONS SHOE REPAIRERS, INC., New York, N. Y. Filed March 14, 1921.

5,673.—*Title:* "CROP-TEST." (For Advertising Purposes for Flower and Vegetable Seeds, Shrubs, Plants, Trees.) WILLIAM B. ROSEVEAR, Jr., Detroit, Mich. Filed July 21, 1920.

5,674.—*Title:* "ACME DIAL PLANCHETTE NO. 1." (For Advertising Purposes for Planchettes.) WILLIAM A. UHR, Los Angeles, Calif. Filed July 14, 1919.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

DE FERRANTI *v.* HARMATTA.

Decided May 2, 1921.

1. PATENTS—INTERFERENCE—COPYING CLAIMS OF A PATENT DISCLAIMED IN A PRIOR PATENT—ESTOPPEL BY DELAY.

Where in an interference between an application of H., filed in 1903, and a patent of R., granted in 1909, both owned by a common assignee, priority was awarded to H. and a patent was issued to him in 1912, including the interfering claims, after which the counts of that interference were disclaimed in the patent to R., a third party who filed an application in 1911 as a division of one filed in 1904 is estopped from making in 1913, in the divisional application, the claims disclaimed by R., the claims having been copied more than four years after the grant of R.'s patent, although within two years after the grant of H.'s patent.

2. SAME—SAME—SAME—ESTOPPEL BY DELAY—FOUNDATION OF RULE.

The limitation of two years within which claims may be taken from a patent arises from the application of a sound principle of public policy for the prevention of the undue extension of monopoly by procrastination in the assertion of adverse rights against one already in possession. This situation is not different by analogy from a reissue case, where the public is in adverse possession. In both instances the applicant has stood by and permitted others to assert rights which he now negligently seeks to monopolize for himself.

Mr. Melville Church for De Ferranti.

Mr. F. P. Fish and *Mr. J. L. Stackpole* for Harmatta.

VAN ORSDEL, *J.:*

This appeal is from the decision of the Commissioner of Patents awarding priority of invention to appellee Harmatta. The interference involves the application of De Ferranti, filed December 29, 1911, which was divisional of his earlier application of May 14, 1904, and the application of Harmatta, filed December 3, 1903, which eventuated into a patent December 3, 1912.

The invention relates to what is known as "spot welding." This is accomplished by passing an electric current through the parts joined in such manner as to confine it to a small spot, thus making a correspondingly small weld.

It is not necessary to enter into the details of the invention, since we think the case can be disposed of by the consideration of a single point. It appears that a patent was issued to one Rietzel on July 20, 1909, in which the claims of the present issue originated. Harmatta appropriated these claims, which led to an interference, resulting in an award of priority to Harmatta. The Thomson Electric Welding Company was the assignee of both the Rietzel and Harmatta applications. After the Harmatta patent was issued on December 3, 1912, the counts of that interference were disclaimed in the Rietzel patent.

De Ferranti first made the claims in issue July 29, 1913, more than four years after the issue of the Rietzel patent. It is sharply contended that De Ferranti's delay in making the claims in interference can only be counted from the date of the Harmatta patent. But we are not impressed by this contention. De Ferranti filed his present application December 29, 1911, more than two years after the issue of the Rietzel patent, of which he had constructive notice. He is, therefore, clearly estopped to make claims against Rietzel. The Harmatta claims were derived from the Rietzel patent by reason of his being adjudged the prior inventor.

The limitation of two years within which claims may be taken from a patent arises from the application of a sound principle of public policy for the prevention of the undue extension of monopoly by procrastination in the assertion of adverse rights against one already in possession. This situation is not different by analogy from a reissue case where the public is in adverse possession. In both instances, the applicant has stood by and permitted others to assert rights which he now negligently seeks to monopolize for himself.

Monopolies are inherently obnoxious, and it is solely because of ultimate benefit to the public that a conditional form of monopoly is permitted an inventor. When the element of diligence or good faith in an applicant is lacking, there is no valid reason for such a construction of the patent laws as would effect an extension of the limited monopoly granted upon prescribed conditions which include those very elements. Inasmuch as even diligence and good faith do not entitle one to a monopoly upon a monopoly, it is not perceived why delay and the lack of good faith should do so. (*In re Fritts*, 45 App. D. C., 211, 217.)

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

RANSDALL *v.* JAHNS.

Decided May 2, 1921.

1. PATENTS—INTERFERENCE—DELAY OF TWENTY MONTHS IN COPYING CLAIMS OF PATENT—NO ESTOPPEL.

An applicant is not estopped to contest an interference with a patentee because he delayed copying the claims of the patent almost twenty months after the patent issued and fifteen months after he had notice of the patent, as he was well within the two-year period fixed by the Supreme Court in *Chapman* v. *Wintroath*, (252 U. S., 126; 272 O. G., 913.)

2. SAME—SAME—RIGHT TO MAKE CLAIMS—COMPARATIVE EFFICIENCY NOT A TEST.

Although the device of one party to an interference may be less efficient than that of his rival, so long as it comes within the issue and is operative the objection is not one upon which it may properly be held that he is not entitled to make the claims.

Mr. E. W. Bradford for Ransdall.

Messrs. J. H. & C. T. Milans for Jahns.

VAN ORSDEL, *J.:*

The invention in interference relates to leak-proof piston-rings, described in the opinion of the Board of Examiners-in-Chief as follows:

The invention at issue relates to leak-proof piston rings and includes an inner slip expander ring having outer inclined faces and being of a width to fill the opening of the groove in a piston. Outer triangular split metal packing rings fit the inclined faces of the inner ring and are of thin cross section so as to be forced into contact with the wall of the cylinder by the expander ring.

Appellant Ransdall filed his application December 31, 1914, on which a patent was granted April 4, 1916. Appellee Jahns filed his application May 10, 1915. Appellant, the senior party, derives no benefit in this proceeding from the granting of the patent, since, when it was granted, the Jahns application was pending.

The finding below that Jahns conceived the invention and reduced it to practice before Ransdall came into the field is clearly supported by the evidence. The claims in issue were taken by Jahns from the Ransdall patent almost twenty months after the patent was issued and fifteen months after Jahns admits that he had notice of the patent. It was claimed below that Jahns should be held estopped to contest the interference for failure to make the claims of the patent within the time limited by the rule controlling this procedure in the Patent Office. But Jahns was well within the two-year period, the limitation recently fixed by the construction placed upon the rule in *Chapman* v. *Wintroath*, (252 U. S., 126.)

Ransdall sought by a belated motion to dissolve to challenge Jahns's right to make the claims, on the ground that they did not read upon his original disclosure. Notwithstanding the delay in filing the motion, which technically disposes of the contention, we have investigated this point and conclude upon the testimony that, while, perhaps, the Ransdall device was more efficient, nevertheless the Jahns rings, constructed in compliance with his disclosure, were operative and came within the counts of the issue. This is all that is required, since we are not basing our opinion upon a competitive test of efficiency. The present claims read upon Jahns's original disclosure as set forth in his application, and this entitles him to priority.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE PRUDEN.

Decided May 2, 1921.

PATENTS—INVENTION—CHANGE IN SIZE.

It being old to mix comminuted fuel with air by means of currents of air directed transversely to the path of travel of the fuel, there is no invention in making the mixing-chamber of greater length.

VAN ORSDEL, *J.:*

This appeal is from the refusal of the Commissioner of Patents to grant a patent upon a device which he describes as follows:

The appellant's invention is a device designed for mixing comminuted fuel with air and conveying the same to a burner. Briefly described, it comprises an elongated mixing chamber with perforations distributed longitudinally of the chamber through which air under pressure is admitted from a surrounding chamber. The currents of air so admitted are directed substantially transversely of the mixing chamber and in their passage across it they meet and intimately commingle with a jet of comminuted fuel which is being projected longitudinally of the chamber by an air blast from one end thereof to the other where the burner is situated.

The Commissioner found that the invention of appellant is anticipated by a number of patents. We have examined the references, and find the anticipation most complete in a patent to one Fogler, of December 14, 1915, and a patent to one Caracristi, of February 6, 1917.

Appellant contends that the distinction between his invention and the prior art consists in the induction of cross-currents of air, which mix the air and fuel so that a complete combustion takes place immediately upon the delivery of the fuel in the furnace. It is urged that in prior inventions, the air was injected into the cylinder through which the fuel was driven longitudinally in the same direction with the fuel, and, instead of mixing with the fuel, it enveloped the fuel and thus prevented combustion until it had passed from the cylinder a considerable distance into the furnace.

Appellant forces the air into the cylinder transversely, with the result that combustion takes place immediately when the fuel enters the furnace. While the transverse injection of the air in the Fogler device is not so marked as in appellant's machine, the induction of the air is from a surrounding chamber into a nozzle-like mixing-chamber, with considerable transverse direction, which, we think, would tend to mix the air and fuel for immediate combustion upon entering the furnace.

In the Caracristi device, the air-jets are admitted from the air-chamber, apparently in almost as transverse direction as in appellant's machine. This feature of appellant's invention, which is about all there is to it, is clearly anticipated by these two patents, as well as by other references cited, though in a less pronounced degree.

Stress is laid upon the fact that appellant shows an elongated mixing-chamber, while, for example, in

Caracristi the chamber is short. Elongated chambers are not new in the art, as appears in a reference to a patent issued to one Martindale, December 31, 1912. The mere enlargement of the fuel-mixing cylinder, either in length or diameter, does not constitute invention. (*Edison et al.* v. *Alsen's American Portland Cement Works*, 219 Fed., 895.)

If the act or improvement be the mere modification, variation, or carrying forward of the principle involved in a previous invention or discovery, a patent will be denied. No patent should issue, nor will it be valid if issued, for an improvement which is merely a new application of knowledge already possessed by those skilled in the art. (*In re Klemm*, 21 App. D. C., 186, 190.)

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

WRIGHT *v.* HALLE *et al.*, (No. 1,383.) WAHL *v.* BARRETT *et al.*, (No. 1,384.) BARRETT *v.* WAHL *et al.*, (No 1,385.)

Decided May 2, 1921.

1. PATENTS — INTERFERENCE — JUDGMENT ON RECORD—OPERATIVENESS.

The junior parties having failed to overcome in their preliminary statements the filing date of the senior party and the Office tribunals having held that the senior party's disclosure is operative, the judgment of priority was correct and is affirmed.

2. SAME—OPERATIVENESS—DECISIONS OF PATENT OFFICE TRIBUNALS NOT DISTURBED.

Where the issue covers technical mechanism and the tribunals of the Patent Office, on a motion to dissolve, refused to rule that the senior party's device was inoperative and refused to permit the taking of testimony to show inoperativeness, the court, on appeal on priority, will not disturb that ruling, no error being clearly apparent.

3. SAME—SAME—AFFIDAVITS FILED TO SHOW INOPERATIVENESS OF DEVICE CONSTRUCTED IN ACCORDANCE WITH SENIOR PARTY'S DISCLOSURE.

Affidavits filed to show that a machine alleged to have been constructed in accordance with the senior party's disclosure, tested, and found inoperative *Held* insufficient to overcome the effect of his first filing as a prior constructive reduction to practice, the test having been made *ex parte* and the structural defects pointed out being subject to mechanical correction.

Mr. B. C. Stickney and *Mr. Louis E. Giles* for Wright.

Mr. W. W. Dodge, Mr. J. H. Milans, Mr. D. A. Carpenter, Mr. C. T. Milans, and *Mr. B. G. Foster* for Halle *et al.*

Mr. J. H. Milans and *Mr. C. T. Milans* for Wahl.

Mr. W. W. Dodge, Mr. B. C. Stickney, Mr. D. A. Carpenter, and *Mr. B. G. Foster* for Barrett *et al.*

VAN ORSDEL, *J.:*

These appeals are from a decision of the Commissioner of Patents awarding priority of invention to appellee Halle in an interference arising between the applications of Halle, filed October 11, 1902; Wright, filed April 20, 1908; Barrett, filed December 13, 1909, and Wahl, filed May 23, 1911.

Appellants, in their preliminary statements, failed to allege a date of conception prior to Halle's filing date. In accordance with the practice of the Patent Office, appellants were notified by the Examiner of Interferences that Halle would be awarded priority on the record, unless cause was shown why such a course should not be pursued. Wahl and Barrett moved to dissolve the interference, on the ground that the machine disclosed by Halle was inoperative. The motions were denied by the Examiner, and appeal was taken to the Commissioner, where the decision of the Examiner was affirmed. The Examiner then adjudged Halle entitled to priority on the record. This procedure is approved in *Ewing* v. *Fowler Car Co.*, (244 U. S., 1.)

The present appeals are based chiefly upon the alleged error of the tribunals below in holding the Halle device operative. The issue involves improvements in combined typewriting and adding machines, which is suggestive of technical mechanism. The experts of the Patent Office are unanimous in holding that Halle's machine is operative. So clearly was it held to be disclosed, that a motion to take testimony on the question of operativeness was denied. On this point we have held that error must be clearly apparent to justify judicial intervention.

Appellants, however, have constructed a machine following, it is claimed, the Halle disclosure. Affidavits are produced to show that the machine so constructed would not work. This sort of attack is usually looked upon with suspicion, since the test has been conducted wholly by the enemy. The necessity for the correction of minor structural defects does not necessarily establish a false inventive concept. Here, we think the structural defects pointed out are subject to mechanical correction.

The decision of the Commissioner of Patents is affirmed. All costs on the writs of certiorari are taxed against the moving parties.

Affirmed.

Court of Appeals of the District of Columbia.

EARLES AND LOWE *v.* GOMBER.

Decided May 2, 1921.

1. PATENTS — INTERFERENCE — AMENDING PRELIMINARY STATEMENTS.

Amendments moving back the dates alleged in preliminary statements, after an adversary's dates have been disclosed, should not be allowed unless the interests of justice plainly demand it.

2. SAME — SAME — REISSUE APPLICATION — INTERVENING RIGHTS—NOT A QUESTION OF PRIORITY.

Presumptive intervening rights arising from a delay of more than two years in filing an application for reissue with broadened claims is a question not available in interference proceedings.

3. SAME—SAME—ESTOPPEL—DELAY IN FILING REISSUE FOR MORE THAN TWO YEARS AFTER OPPOSING PARTY PUT DEVICE ON MARKET.

Delay in filing a reissue application for more than two years after knowledge by applicant that his rivals in interference proceedings had placed the device on the market does not operate as an estoppel under the rule announced in *Wintroath* v. *Chapman* (252 U. S., 126) where he himself had placed the device on the market before the filing date of the opposing applicants or their invasion of the market, the reissue applicant being the first inventor and the first to place the device on the market. Long delay might bar the reissue application on the ground of dedication to public use; but the question could not be raised in an interference proceeding.

Mr. J. R. H. Potts and *Mr. Brayton G. Richard* for Earles *et al.*

Mr. E. G. Siggers for Gomber.

VAN ORSDEL, *J.*:

Appeal from the decision of the Commissioner of Patents awarding priority of invention to appellee Gomber, the senior party.

The issue is in the following count:

A fly killing device comprising a handle; and the flap on said handle formed of a perforated sheet of soft flexible non-abrasive material.

A patent was granted appellants April 2, 1918, upon an application filed May 29, 1915. Appellee is here on an application filed August 6, 1918, for the reissue of a patent granted November 23, 1915, on an application filed March 4, 1915. Appellants alleged conception and reduction to practice in 1912, and appellee alleged a date of 1910. The preliminary statement of appellants claiming the above date was filed September 20, 1918. On February 17, 1919, they filed a motion under Rule 113 of the Rules of Practice of the Patent Office seeking to amend their preliminary statement to show conception and reduction to practice in 1904. We agree with the tribunals of the Patent Office that the evidence is wholly inadequate to sustain the motion. Testimony to support such a motion must be convincing and free from suspicion.

It is always a suspicious circumstance in a case of interference that, after the claim of one of the parties has been fully disclosed and fixed as a specified date, the other should then seek by amendment of his preliminary statement to show a date of invention different from that in the original statement and prior to it and to the date of his opponent. Amendment upon so important a point should not be allowed in such a case unless it is shown that the interests of justice plainly demand it; for upon the determination of these dates it depends, in the majority of cases, which party is entitled to the patent, and a change of memory is comparatively easy when self-interest dictates a different date. (*Parker* v. *Appert*, 8 App. D. C., 270.)

Appellee's reissue application is assailed on the ground that it is barred by intervening rights, in that it seeks to broaden the claims more than two years after the original patent was granted and is for a different invention. These questions are not available in an interference proceeding. (*Norling* v. *Hayes*, 37 App. D. C., 169.)

But, it is contended that appellee is estopped under the rule announced in *Chapman* v. *Wintroath*, (252 U. S., 126.) This contention is based upon alleged commercial exploitation of the invention by appellants in the years 1915 to 1918, and knowledge by appellee late in 1916 that such a device was on the market. Assuming that two years elapsed between the date when such knowledge came to appellee and the date of his reissue application, which is not satisfactorily established, it is conclusively shown that appellee had the invention on the market in large quantities early in 1915, at a date prior to appellants' filing date or their invasion of the market with the manufactured product. Appellee was the prior inventor, and it was from him that the public first derived knowledge of the invention due to his placing it upon the market. In such circumstances, there is no hypothesis on which an award of priority to appellants could be justified. If appellee delayed too long in applying for reissue after placing the device upon the market, he might be barred by dedication to public use, but this is not available to appellants in this proceeding.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

JENKS AND PERRY *v.* GEIGER.

Decided May 2, 1921.

PATENTS — INTERFERENCE — SKETCH DISCLOSING INVENTION.

A sketch relied upon as proof of disclosure of the invention of a side bearing for railway-cars considered and *Held* to show the invention.

Mr. C. E. Mehlhope for appellants.

Mr. Geo. I. Haight, *Mr. H. N. Low*, and *Mr. Jos. Harris* for appellee.

VAN ORSDEL, *J.*:

Appellants Jenks and Perry appeal from the decision of the Commissioner of Patents awarding priority of invention to appellee Geiger for an invention defined in the following count:

In a side bearing for railway cars, the combination with a bolster and having an upper bearing surface, of a roller-carrying member having a bottom wall and vertically extending spaced side walls, said bottom wall being provided on its under side with a bearing surface coöperable with said first named bearing surface, an anti-friction roller carried by said member and disposed between said vertical side walls, said roller having journals supported by said side walls and rotatable about a relatively fixed axis, means for holding said member in operative relation with said bolster, said bearing surfaces permitting said member to tilt in a direction at right angles to the axis of rotation of said roller.

Appellants filed their application March 15, 1915, and appellee filed November 18, 1916, a renewal of his original application filed October 22, 1914. Neither party claims actual reduction to practice. Appellee has been awarded June 27, 1914, as a date of conception and disclosure. This is earlier than any date claimed by appellants. Since appellee was the first to constructively reduce to practice by filing his application, he is the first to conceive and reduce to practice. Nothing appears in the record to impeach appellee's position in this respect.

Appellants, however, contend that appellee's original sketch does not disclose the invention in issue. The side bearing, which supports the car when in a swinging motion or rounding a curve consists of a roller, with which the car comes in contact. This roller is supported by a member attached to the truck-bolster. It must be so constructed that, when the car comes in contact with the roller, the member will tilt in a right-angular direction to the axis of rotation of the roller, so that the roller will receive the weight and friction of the car equally throughout its length. The tilting motion of the member adjusts the roller to properly contact with the car.

Appellee, in his application, discloses the member carrying the antifriction-roller bolted to the truck-bolster in such manner, it is contended, as will not admit of the tilting action. The drawing discloses the bolt-holes larger than the bolts and the under face of the heads curved so as to permit of the tilting motion. It is argued that, since the bolts must be drawn tight to hold the parts firmly together, the friction would be too great to permit of the movement required. The count does not call for free movement, and we think the great weight of the car would force the slight tilt required to adjust the face of the roller to the underbearing of the car. The adjustment of the size of the bolt-holes and the bolts to accomplish this result would require only mechanical skill.

We find nothing to warrant us in disturbing the concurrent decisions of the three tribunals of the Patent Office in awarding priority of invention to appellee Geiger.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Patents Nos. 1,384,035 to 1,384,733.

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Labels	6	No. 23,114 to No. 23,119,	inclusive.
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Reissues	7	No. 15,147 to No. 15,153,	inclusive.
Total	974		

Nolan Act—Reciprocity of Austrian Laws Recognized.

(ORDER No. 2,678.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 13, 1921.

Notice is hereby given that the laws of Austria are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently the privileges specified in said act will be extended to citizens of Austria, subject to the limitation that extensions will not be granted to relieve defaults failing under section 2 of the Act for a longer period than seven years and two months.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., June 27, 1921.

Fred Hollender & Co., its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Hinckley & Schmitt, 420 West Ontario street, Chicago, Ill., for registration of a trade-mark and trade-mark registered August 29, 1905, No. 45,804, to Fred Hollender & Co., 115–119 Elm street, New York, N. Y., and a notice of such declaration sent by registered mail to said Fred Hollender & Co. at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Fred Hollender & Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 6, 1921.

Amédée Castaing, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Spiros C. Markatos, 456 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered January 29, 1907, No. 60,225, to Amédée Castaing, 518 West Thirtieth street, New York, N. Y., and a notice of such declaration sent by registered mail to said Amédée Castaing at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Amédée Castaing, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,350,263.

On June 6, 1921, a decision was rendered that Nils Arvid Palmgren was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,350,263, subject, "Roller-bearing," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,253,310.

On June 8, 1921, a decision was rendered that Richard Von Reppert was not the first inventor of the subject-matter covered by claims 49 and 50 of his Patent No. 1,253,310, subject, "Calculating-machine," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,253,310.

On May 28, 1921, a decision was rendered that Richard Von Reppert was not the first inventor of the subject-matter covered by claims 89 and 93 of his Patent No. 1,253,310, subject, "Calculating-machines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,315,346.

On June 10, 1921, a decision was rendered that Paul J. Simmen was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, and 11 of his Patent No. 1,315,346, subject, "Speed-control system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,320,959.

On June 11, 1921, a decision was rendered that Ernst F. W. Alexanderson was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,320,959, subject, "Radiosignaling system," and no appeal having been taken within the time allowed such decision has become final.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business July 2, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Feb. 7	Mar. 11	674
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Oct. 7	Dec. 6	1,504
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 13	Nov. 5	716
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 9	Mar. 16	1,558
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 24	Dec. 4	727
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 29	Apr. 8	865
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 24	Mar. 16	1,464
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 2	May 18	613
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 13	Apr. 20	777
235	10. Land-Vehicles; Land-Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Jan. 25	Apr. 27	1,159
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Mar. 24	Apr. 16	386
222	12. Machine Elements	Nov. 9	Apr. 13	1,055
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Sept. 16	Mar. 25	1,567
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Oct. 7	May 5	912
306	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 17	Dec. 9	1,592
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 3	Dec. 18	1,450
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec. 16	Mar. 11	801
230	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 11	Dec. 18	1,543
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 7	Jan. 14	888
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 19	Feb. 12	1,182
213	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Oct. 29	Apr. 9	518
249	22. Aeronautics; Firearms; Ordnance Ammunition and Explosive Devices	Mar. 25	Apr. 30	396
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 6	Apr. 15	729
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Dec. 20	Apr. 4	887
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	May 10	May 13	242
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Dec. 11	Feb. 1	750
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Feb. 7	Mar. 29	1,096
225	28. Internal-Combustion Engines	Dec. 4	Feb. 25	1,202
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Dec. 10	Apr. 13	707
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Feb. 2	May 6	996
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 9	Nov. 4	2,020
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 13	Mar. 24	1,067
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 12	Mar. 11	742
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	May 9	May 24	295
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet	May 24	Apr. 1	485
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 2	Jan. 22	1,509
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Dec. 30	Jan. 3	1,952
278	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Feb. 12	Feb. 14	1,034
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Aug. 19	Sept. 17	1,699
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 13	Jan. 21	1,939
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Dec. 13	Mar. 22	832
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Oct. 18	Oct. 27	2,025
383	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Sept. 11	Dec. 20	1,308
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 20	Apr. 18	537
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Jan. 3	Apr. 7	1,022
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 16	Feb. 25	884
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Nov. 11	Feb. 1	1,008

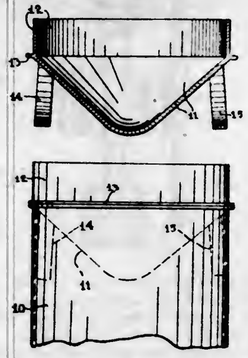
Oldest new case, July 17; oldest amended, Sept. 17.
Total number of applications awaiting action 49,334

163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 21	Apr. 11	4,675
	Designs	Oct. 11	Dec. 10	2,168
	Labels and Prints	Apr. 1	June 13	517

PATENTS

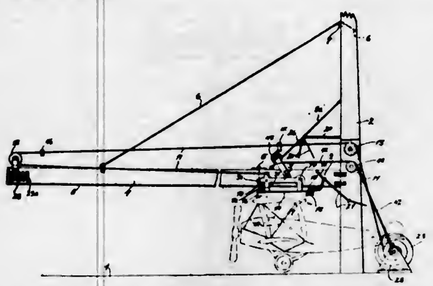
GRANTED JULY 12, 1921.

1,384,035. COOKING UTENSIL. HERMAN L. ALEXANDER, Chicago, Ill. Filed Dec. 18, 1920. Serial No. 431,643. 11 Claims. (Cl. 53—1.)



1. In a device of the class described, the combination of a receptacle open at its upper end; and a cover comprising a deep dome-shaped portion, and laterally extending means about the outer edge of the dome-shaped portion for supporting the cover upon the receptacle, said cover being adapted to serve as a mixing bowl.

1,384,036. DEVICE FOR LAUNCHING AEROPLANES FROM SHIPS. GUSTAF ANDERSON, New York, N. Y. Filed Dec. 27, 1920. Serial No. 433,103. 3 Claims. (Cl. 244—2.)

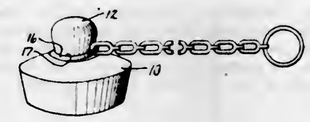


1. A device of the class described comprising a support, a beam extending from said support, a carriage movably mounted on said beam, means for releasably locking an aeroplane against said carriage, a cable attached to said carriage, means driven at a uniform rate of speed for winding up said cable at an increasingly-rapid speed, means for releasing said locking means, and means for operating said winding means.

1,384,037. PLASTIC COMPOSITION. MORGAN K. ARMSTRONG, Winnetka, Ill., assignor to Bestwall Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Filed Oct. 1, 1919. Serial No. 327,625. 1 Claim. (Cl. 106—34.)

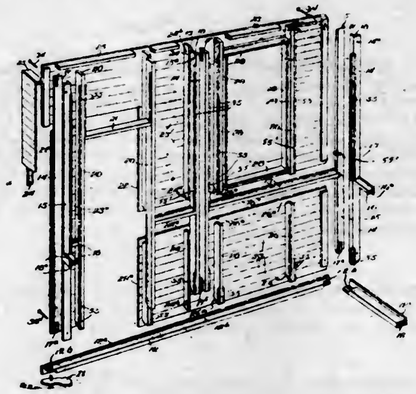
A plaster composition comprising approximately eighty-five pounds of calcined gypsum, mixed dry with approximately fifteen pounds of finely divided peat or peat moss, the combined one hundred pounds of dry mixture being mixed with water in sufficient amount to make it workable.

1,384,038.. DRAIN-PLUG. NATHAN BECKER, New York, N. Y. Filed Mar. 19, 1921. Serial No. 453,683. 2 Claims. (Cl. 4—35.)



1. A drain plug of compressible molded rubber composition comprising a body portion and a knob integral with the body portion and having a relatively enlarged head and relatively narrow neck, a ring through which said head is adapted to be passed by compression of the head, said ring encircling said neck, and a chain attached to the plug by passing the ring forcibly over the compressible head.

1,384,039. PORTABLE BUILDING. MARTIN BLAI, Chicago, Ill. Filed Feb. 2, 1920. Serial No. 355,889. 5 Claims. (Cl. 20—2.)



1. A portable building comprising end walls, side walls, a floor and a roof, said end walls and side walls consisting of vertically extending members and a plurality of superposed units, a plurality of vertically extending strips carried by said members, means for securing said units to said vertically extending members, a plurality of inner wall frames, and means for securing said inner wall frames to said vertically extending strips, whereby said frames form a smooth inner wall.

1,384,040. SHOCK-ABSORBER. WILLIAM N. BORDER, Dunlap, Mo. Filed May 21, 1920. Serial No. 383,200. 2 Claims. (Cl. 267—17.)

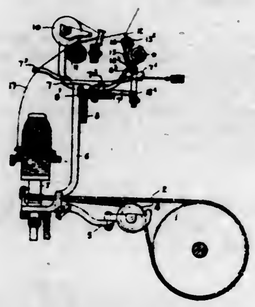
1. In combination with a vehicle provided with main springs, a plate secured to an axle of said vehicle, an auxiliary spring rockably mounted at one end upon said

plate, a rod fixed to said auxiliary supplemental spring and extending downwardly through an opening in the plate, a spring embracing said rod and abutting against the plate to resist rocking movement of the auxiliary



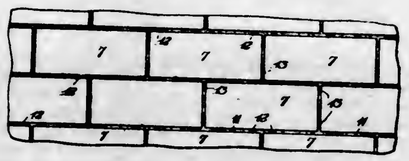
spring, means for regulating the tension of said supplemental spring, and means connecting the opposite end of the auxiliary spring to a spring-supported portion of the vehicle.

1,384,041. TWISTING AND DOUBLING MACHINE. THOMAS ALEXANDER BOYD and HAROLD ARTHUR BOYD, Glasgow, Scotland. Filed Dec. 11, 1919. Serial No. 344,264. 3 Claims. (Cl. 118—7.) (Filed under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



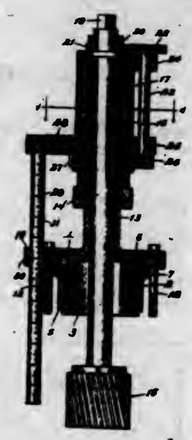
1. In a detector mechanism for twisting and doubling machines, in combination, a rod, an upper delivery roller carried by said rod, a catch plate normally detaining said rod against movement, a cam, a detector box pivoted to said catch plate, detectors in said box, said detectors normally sustained by the yarn but adapted on failure of the yarn to fall into the path of the cam, and means on said detector box engageable with said rod to disengage said rod from the catch plate on the fall of a detector into the path of the cam.

1,384,042. PAVEMENT CONSTRUCTION. FREDERICK A. BROTSCH, Jr., Brighton, N. Y. Filed Nov. 3, 1919. Serial No. 335,338. 6 Claims. (Cl. 94—11.)



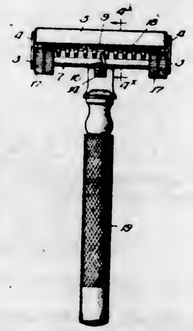
1. A pavement comprising a plurality of juxtaposed sections smaller at their bottoms than at their tops to provide downwardly increasing intervals therebetween and facilitate the penetration of cementing material adjacent the bottoms of said intervals, cementing material in said intervals for securing them together, and anchoring portions on the sections providing horizontal shoulders interlocking with the cementing materials to prevent upward or downward movement of the sections.

1,384,043. CYLINDER BORING OR REAMING MACHINE. GORDON MARK BRUBAKER, Millersburg, Pa. Filed Mar. 9, 1920. Serial No. 364,417. 9 Claims. (Cl. 77—2.)



1. A cylinder boring or reaming machine comprising a clamping head, means for securing the same to a cylinder, an elongated externally threaded inner bearing sleeve fixed to and extending from the clamping head, a tool driving shaft journaled in said head and sleeve, an outer bearing sleeve coupled to the tool driving shaft and in guided and slidable connection with the clamping head, a threaded feed spindle journaled in the outer bearing head and arranged to travel upon the threads of the inner bearing sleeve, and gearing between the tool driving shaft and feed spindle.

1,384,044. SAFETY-RAZOR. CHARLES R. BURKE, Chicago, Ill. Filed June 19, 1920. Serial No. 390,090. 7 Claims. (Cl. 30—12.)



1. In a safety razor, a frame, a blade holder mounted to reciprocate in said frame, a cam shaft having connection with the blade holder through which it reciprocates the latter, and a guard overlying the cam shaft.

1,384,045. HOSE-COUPLING. FRED WILLIAM BURNS, Johnstown, Pa. Filed Mar. 15, 1920. Serial No. 365,719. 3 Claims. (Cl. 285—83.)

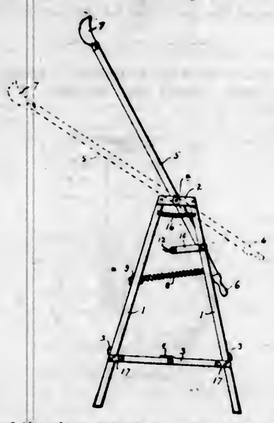
3. A hose coupling comprising a female member, including a recessed head having an internal shoulder, a tubular portion extending from one side of said head and having a tapering bore, a locking head mounted in said recess, a set screw threadedly mounted in said head and

operatively connected to said locking head, a male member including a head and a tapered tubular portion ex-



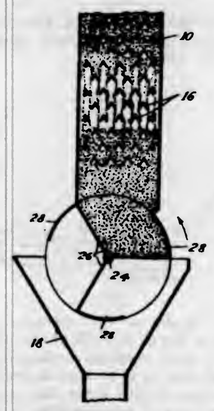
tending from one side of said head and having a shoulder engageable with the shoulder of the female head.

1,384,046. CATAPULT. ANDREW CARRINO, Sterling, Ill. Filed May 12, 1920. Serial No. 380,911. 1 Claim. (Cl. 124—1.)



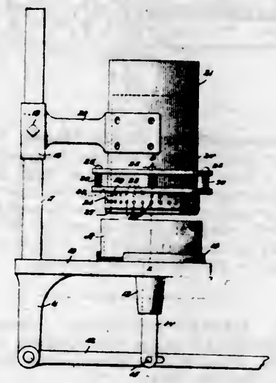
A device of the class described, comprising two pairs of legs, foldably united; plates uniting said legs, in pairs, at their upper ends; a hand-lever pivotally mounted in said plates and provided at its outer end with a pocket; a spring connecting said lever with said frame, and capable of imparting force thereto, when operated; and a yieldable buffer mechanism mounted in said frame, and adapted to be contacted by said lever at the end of its movement, when discharging a missle.

1,384,047. PROCESS OF DRYING GRANULAR MATERIAL. CLARENCE W. CARTER, Minneapolis, Minn. Filed Apr. 22, 1918. Serial No. 229,910. Renewed Dec. 27, 1920. Serial No. 433,432. 2 Claims. (Cl. 34—24.)



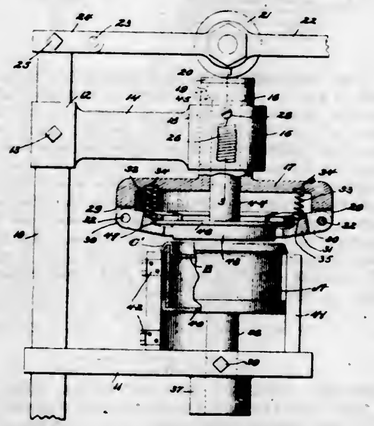
2. A process of drying granular material which consists in supporting a vertical column of said material at its bottom, said column being of a predetermined length, passing heated air through said column throughout the principal part of the length thereof, periodically withdrawing said support to an extent sufficient to cause the entire column of material to move downward uniformly throughout its cross section, and regulating the intervals of time between each of said withdrawals so that the part of the material which moves past the point of support and is discharged from the column will have been suitably dried.

1,384,048. PASTE-APPLYING APPARATUS. FREDERICK COATES, Wyoming, Ohio, assignor to Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 25, 1920. Serial No. 412,833. 12 Claims. (Cl. 91—43.)



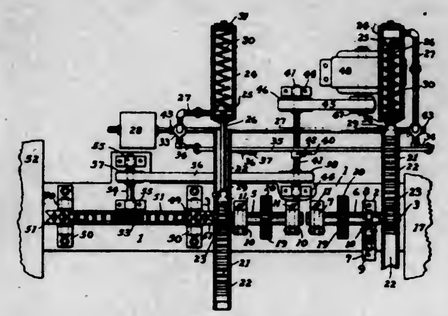
1. In a paste applying apparatus, a paste tank, a paste applying ring slidable on said tank, said ring and tank having coöperating paste ports normally out of registry, and means to hold a carton arranged to bring the carton into engagement with the ring and thereby cause the ports to register.

1,384,049. MACHINE FOR SECURING END CLOSURES IN VESSELS. FREDERICK COATES, Wyoming, Ohio, assignor to Federal Products Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 25, 1920. Serial No. 412,835. 18 Claims. (Cl. 93—55.)



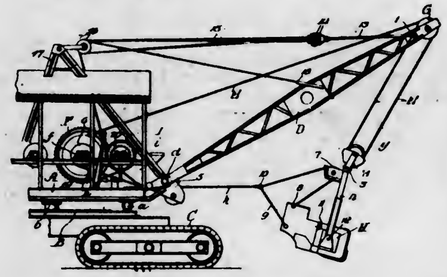
1. In a machine of the class described, a reciprocable plunger head, carton periphery engaging members carried by the plunger head, and means to engage and move said members inward as the plunger moves in one direction.

1,384,050. SAUSAGE-LINKING MACHINE. HERMAN CRAMER, Pine Lawn, Mo. Filed Mar. 12, 1921. Serial No. 451,764. 4 Claims. (Cl. 17—6.)



1. A sausage-linking machine having an organised means for simultaneously twirling in opposite directions parts of a filled sausage casing, to form simultaneously from said oppositely-twirled casing two separate connected links, of sausage; in combination with means for drawing the finished connected links as well as the casing from which they are made, through the machine and delivering said links to a delivery-table or platform.

1,384,051. LIFTING APPARATUS. GEORGE N. CRAWFORD, Chicago, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed July 2, 1917. Serial No. 178,137. 8 Claims. (Cl. 37—55.)



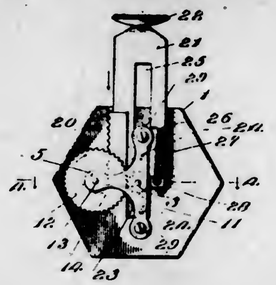
1. In lifting apparatus, instrumentalities to carry the load, a line to raise and lower said instrumentalities, a winding drum for said line, a clutch for rotating said drum to raise the load, a brake for said drum, means to swing the load sidewise, a single lever connected to control both the clutch and the brake, so that the load may be raised or lowered at will by operation of said single lever, a shaft on which said drum and clutch and brake are supported; the clutch being operable to connect the drum to the shaft by movement of said lever in one direction, and adapted to release the drum when said lever is moved in the opposite direction to apply said brake, whereby the drum is rotatable with the shaft to raise said instrumentalities and rotatable in the opposite direction on the shaft under control of said brake to lower the boom.

1,384,052. SUPPORT FOR HANKS OF SILK, YARN, AND THE LIKE IN TREATING-MACHINES. JOSEPH A. DISCHINGER, Tonawanda, N. Y. Filed Apr. 22, 1920. Serial No. 375,874. 6 Claims. (Cl. 8—19.)

1. A machine for treating hanks of silk and the like having an arm for supporting said hanks which comprises an arbor, a plurality of disks mounted in spaced relation on said arbor and each having a plurality of notches arranged in an annular row in the periphery of the disk, and a plurality of longitudinal rods arranged in an annular row around the arbor and each secured with its inner side in corresponding notches in said disks in such position that the outer side of the same is arranged radially outward beyond the periphery of the several disks.

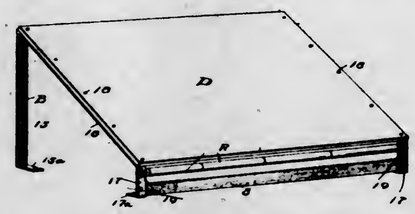


1,384,053. FAN. MARTIN S. DUPONT, Chicago, Ill. Filed July 29, 1920. Serial No. 399,869. 1 Claim. (Cl. 230—33.)



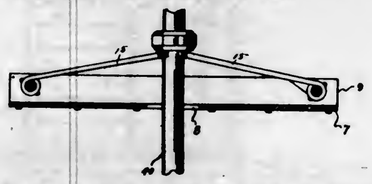
A mechanically operated fan comprising a support and casing adapted to be held in the hand, a shaft journaled in said support and casing, fan blades carried by said shaft, means for rotating the fan blades continuously in one direction, a bifurcated slidable member extending from said casing and controlled by the thumb or finger for operating the aforesaid means, a relatively long guide plate secured to the aforesaid support and projecting into the bifurcated portion of the slidable member, a bracket in which the aforesaid shaft is journaled, and studs connecting said bracket to the support, said studs also serving to guide the aforesaid slidable operating member.

1,384,054. POULTRY DEVICE. HOWARD COCHRAN EVANS, Lynchburg, Va. Filed July 28, 1920. Serial No. 399,518. 5 Claims. (Cl. 119—31.)



3. A poultry device of the character described comprising, a pair of brackets, each of the brackets comprising a vertical portion, a second vertical portion relatively longer than the first vertical portion, an inclined portion connecting the two at their upper edge, a floor connecting the inclined portions of said brackets, a strip connecting the first vertical portion to said brackets and spaced from the adjacent edge of said floor, a shaft journaled on the first vertical portion and disposed between said strip and said floor, and a plurality of rollers rotatably mounted on said shaft.

1,384,055. PIPE-HOLDER. LORNE E. FERGUSON, Parkland, Alberta, Canada. Filed Mar. 11, 1921. Serial No. 451,534. 4 Claims. (Cl. 24—249.)

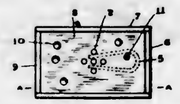


1. A pipe holder consisting of a plate, an opening in said plate to receive a pipe therethrough, side members for said plate, a set of jaws hingedly mounted in said side members and having their inner ends extending inwardly inside the circumference of said opening and said inner ends being provided with gripping means for holding said pipe, the pivot of one of said jaws being removably supported.

1,384,056. ALLOY. COLIN G. FINK, Yonkers, N. Y., assignor to Chile Exploration Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 26, 1920. Serial No. 354,218. 9 Claims. (Cl. 75—1.)

1. An alloy resistant to the corrosive action of acid liquors and containing lead and 3 to 65 per cent. of thallium.

1,384,057. PUZZLE. JAMES FLEET, Montreal, Quebec, Canada. Filed Dec. 20, 1920. Serial No. 432,128. 2 Claims. (Cl. 46—41.)



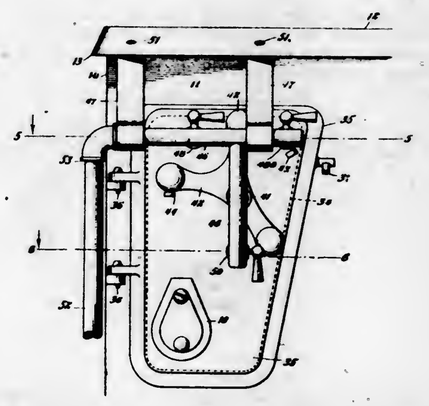
1. In a puzzle, a case having a transparent top and playing board therein contained with the suitable arrangement of pockets, a plurality of magnetizable balls and a non-magnetizable ball, and a magnet suitably placed to misdirect the courses of the magnetizable balls.

1,384,058. VALVE FOR EXPLOSION-ENGINES. HERMAN FURST, Redlands, Calif. Filed Oct. 20, 1919. Serial No. 331,053. 1 Claim. (Cl. 123—188.)



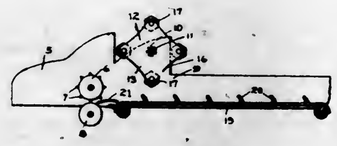
A valve for explosion engines, comprising a one-piece stem and valve head concentric with the stem, said head being semi-hexagonal in diametric cross section, with the top of the head flat and concentric with the stem and joined to the stem by strengthening fillets, said head having a conical side wall joining the flat top at an angle of approximately 45 degrees, whereby the head is of cup-shape, the conical side wall being of substantially even thickness throughout with said thickness corresponding to the extent of contact of the seating edge of the valve with the valve seat.

1,384,059. COMBINED COAL AND GAS RANGE. LOUIS GIAMBRONE, Buffalo, N. Y. Filed May 28, 1920. Serial No. 385,053. 3 Claims. (Cl. 126—36.)



1. A combined coal and gas range having an opening in one of its vertical walls, a combined water front and oven heating gas pipe adapted to pass through and to be rotated in said opening and having a laterally-extending branch pipe, and means for covering up said opening when said combined gas pipe is not being used.

1,384,060. CUTTING MECHANISM. RICHARD GRIMM and ERWIN F. RHODE, Two Rivers, Wis. Filed Sept. 21, 1920. Serial No. 411,857. 1 Claim. (Cl. 146—29.)



In a cutting machine, a frame, cutting means carried by the frame, a conveyer operating on the frame, a reel supported above the conveyer, said reel comprising end sections, rollers mounted to revolve between the end sections, and each of said rollers having flat surfaces.

1,384,061. BELT-BUCKLE. HARRY GROSSMAN, New York, N. Y. Filed Sept. 24, 1920. Serial No. 412,436. 7 Claims. (Cl. 24—194.)

1. The herein described belt buckle comprising a front panel, a pair of side flanges extending with the side edges of the front panel, a plurality of bearing and keeper members lying in the same plane and located back of the said flanges and formed integral therewith, abutment means

located back of the front panel and against which the anchor end of a belt is adapted to abut when being inserted into the buckle, means to lock said anchor end of the belt against one end of the front panel, and means to lock



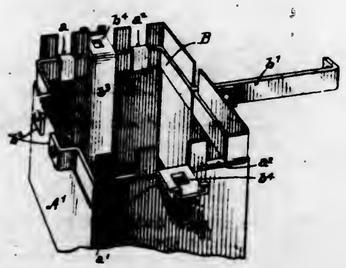
the tongue end of the back adjacent to the other end of the buckle, the tongue end of the belt passing over said abutment means and between the bearing and keeper means and the anchor end of the belt.

1,384,062. LEVEL. JOHN HAPPLE, Syracuse, N. Y. Filed May 19, 1919. Serial No. 298,018. 4 Claims. (Cl. 33—211.)



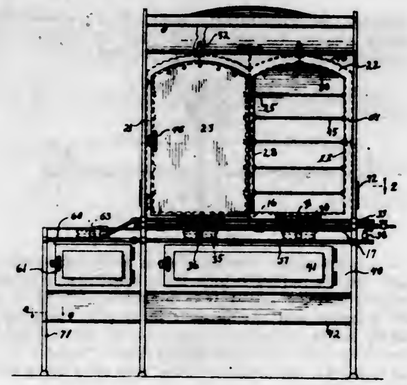
1. As an article of manufacture, an elongated level glass body having a longitudinal fluid holding bore with closed ends, the interior and exterior faces of the body having different cross sectional shapes and one of said faces comprising portions that are substantially flat and angularly disposed in cross section.

1,384,063. PROTECTIVE COVERING FOR STORAGE-BATTERY CELLS. CHESTER P. HATFIELD, Lebanon, Ohio. Filed Nov. 22, 1920. Serial No. 425,722. 4 Claims. (Cl. 224—29.)



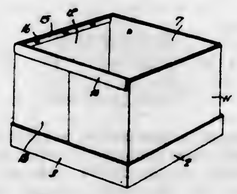
1. A protective casing for the batteries of self-starting automobiles, conformed to the battery and its supporting bracket-yoke and adapted to be slipped up over same from below and inclose battery and yoke, said casing extending above said yoke and provided with suitably spaced slits forming flaps adapted to be manually bent inward over and engaged upon the supporting yoke; and a removable cover adapted to seat externally upon the upper portion of said casing.

1,384,064. STOVE. JULIUS E. HETTINGER, Chicago, Ill. Filed Mar. 9, 1920. Serial No. 364,413. 2 Claims. (Cl. 126—20.)



2. In a stove, a casing, a gas burner and electric wires in said casing, and means for passing gas to said burner and electric energy to said wires, said casing being arranged so as to be inverted.

1,384,065. COLLAPSIBLE PORTABLE HATBOX. AARON HIRSCHWITZ, New Orleans, La., assignor of one-half to Sydney S. Goldberg, New Orleans, La. Filed Mar. 4, 1920. Serial No. 363,235. Renewed Nov. 29, 1920. Serial No. 427,207. 2 Claims. (Cl. 229—41.)



1. A box of the character described including a bottom, end walls hinged along opposite edges to the bottom and adapted to fold down one upon another against said bottom, a body portion distinct and separate from the bottom and adapted to seat at its lower edges thereon, said body portion composed of rigid side walls and collapsible end walls, the end walls of the bottom adapted to swing up against the interior sides of the collapsible end walls of the body portion whereby to reinforce and stiffen the same, locking flaps on the upper edges of the bottom end walls for engaging over the upper edges of the collapsible end walls of the body, and locking strips secured to the rigid side walls of the body along the interior of the upper edges of the same and having their opposite ends adapted to engage the adjacent portions of the bottom end walls whereby to securely hold the same in place, and a top for the box, substantially as described.

1,384,066. BUCKLE. ERNEST N. HUMPHREY and OEL E. WARDNER, New Britain, Conn., assignors to The Traut & Hine Mfg. Company, New Britain, Conn., a Corporation of Connecticut. Filed Feb. 24, 1921. Serial No. 447,461. 3 Claims. (Cl. 24—191.)

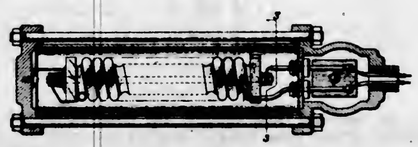
1. A buckle for belts and the like, comprising a front plate, two opposite rearwardly directed flanges at the edges

thereof, a lever mounted between said flanges, a floating belt gripping plate between the lever and the rear face



of the front plate, said belt gripping plate being movable into the belt gripping position by said lever and a support for said gripping plate intermediate the length thereof.

1,384,067. WEATHERPROOF ELECTRIC HEATER. LEE P. HYNES, Albany, N. Y. assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed May 8, 1920. Serial No. 379,811. 9 Claims. (Cl. 219—67.)



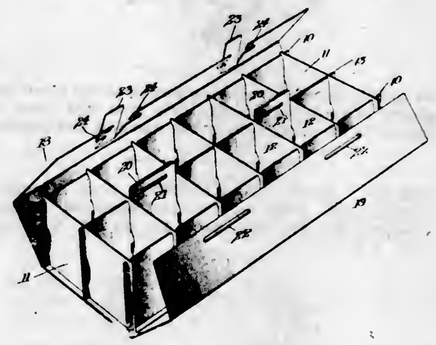
1. A weatherproof electric heater comprising a casing forming a coil chamber, a supplementary casing forming a low-temperature chamber suitable for moisture-proof wires, a heat insulating partition between the two chambers and a heat-proof conductor leading from the coil in the coil-chamber through said partition to a terminal in the low-temperature chamber.

1,384,068. RESISTANCE APPENDAGE FOR TRACTOR-WHEELS. WILLIAM J. JONES, Gregory, S. D. Filed June 28, 1920. Serial No. 392,487. 4 Claims. (Cl. 301—44.)



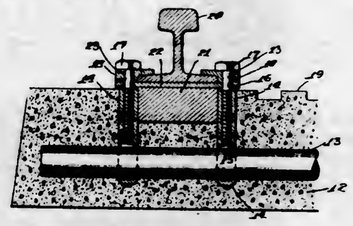
3. In ground-engaging devices for the tires of tractor-wheels, a plurality of wedge-shaped appendages each being provided with an aperture L-shaped in plan, a plurality of bars adapted to be disposed transversely of the tire, each being adapted to be inserted within and to approximately fill the aperture of an appendage, and set-screws or equivalent members engaging the appendages and said bars for maintaining the appendages at a predetermined distance from the tire.

1,384,069. COLLAPSIBLE CARTON. FRANK M. JOSLIN, Amsterdam, N. Y., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y., a Corporation of New York. Filed May 15, 1916. Serial No. 97,577. 6 Claims. (Cl. 229—29.)



3. A collapsible carton or box having a top closure consisting of two overlapping parts, one part formed with a slot and the other a tongue, a partition having a tab adapted to extend through said slot and said tab having a slot adapted to receive said tongue.

1,384,070. CONCRETE RAILROAD-TIE. HERMAN KAPOLKIN, New York, N. Y. Filed July 17, 1920. Serial No. 396,912. 3 Claims. (Cl. 238—92.)



1. A railway tie comprising a body portion constructed from plastic setting material; a metal reinforce therefor, embodying longitudinally disposed tie rods and positioning couples therefor, said couples forming operatively opening sockets; a plurality of yielding bolsters mounted on said body between the ends of said couples; a plurality of rigid wearing plates mounted on said bolsters; fastening means for holding said wear plates in position, said means engaging said couples; and a plurality of foot plates, each engaging one of said fastening members to be drawn upon the flange of a railway rail in service.

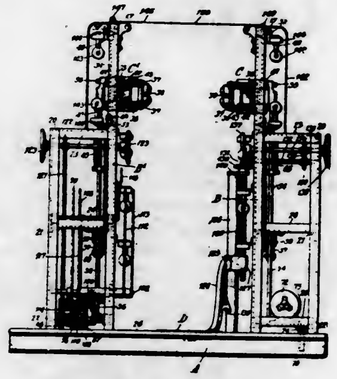
1,384,071. WATCH-STAND. HENRY C. KARR, Washington, D. C., assignor of one-fifth to Emil Bönnelycke, Washington, D. C. Filed Feb. 18, 1921. Serial No. 446,067. 5 Claims. (Cl. 211—24.)

1. A watch stand, comprising an upwardly-extending body portion having a stem-engaging part adjacent its

upper end and a self-sustaining base at its lower end, said base embodying a pair of spaced spring supports for engagement with the body of a watch; said supports having pockets to receive the lower portion of the watch and adapted to be forced laterally away from each other incidental to the engagement of the watch in said pockets.



1,384,072. MASSAGING-MACHINE. JOHN KERCHER, Chicago, Ill. Filed Oct. 19, 1917, Serial No. 197,498. Renewed Dec. 16, 1920. Serial No. 431,276. 9 Claims. (Cl. 128—57.)
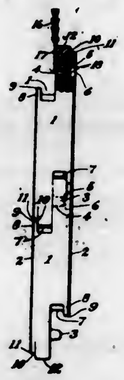


8. In a device of the class described, a pair of oppositely disposed frames carrying massaging instrumentalities, means for operating said instrumentalities, flexible closures for inclosing the space between said frames, and means for heating said space.

1,384,073. BRAKE-OPERATING MECHANISM. ALBERT P. LEE, Chicago, Ill., assignor to Lee Trailer & Body Company, Chicago, Ill. Filed Sept. 7, 1920. Serial No. 408,459. 16 Claims. (Cl. 188—204.)



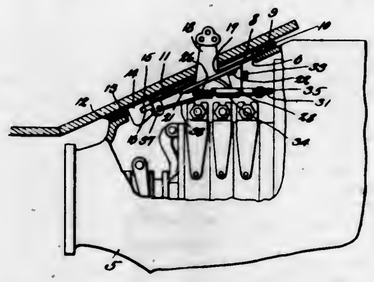
1. A device of the character described comprising brakes, a plurality of brake operating levers, brake operating mechanism operated by said levers, and a lost motion connection between said brake operating mechanism and each of said levers whereby said brakes may be operated from either of said levers.

1,384,074. SASH-WEIGHT. ELOF R. LEONARD, Mountain Lakes, N. J. Filed Mar. 19, 1921. Serial No. 458,829. 7 Claims. (Cl. 16—218.)



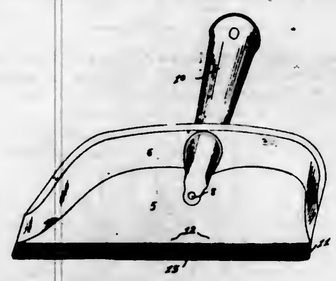
2. In sectional sash-weights, the combination of a plurality of duplicate, integral sections each provided at one end with a reduced and extended portion provided with a lug connecting element, a locking flange projecting from the unreduced portion, and a transverse groove behind said locking flange, and at its other end with a reduced and extended portion provided with a socket connecting element, a locking flange projecting from the unreduced portion, and a transverse groove behind said locking flange.

1,384,075. AUTOMOBILE-LOCK. WILLIAM A. LOWERY, Summit, Ga., assignor to The Lowery Lock Company. Filed Apr. 23, 1920. Serial No. 376,048. 5 Claims. (Cl. 70—90.)



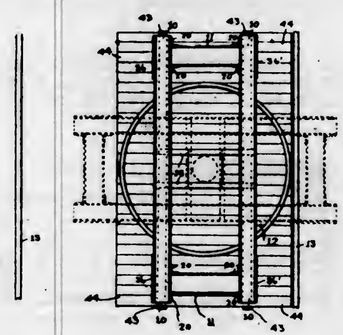
1. In combination with a motor fly wheel, a locking device including a body portion, a pivoted locking arm having teeth formed on one of the edges thereof, means for normally holding the arm out of engagement with the fly wheel, said means including a controlling arm having an elongated opening formed adjacent to one end thereof, a pivot pin on the locking arm and operating in the opening, whereby the locking arm will automatically adjust itself to the fly wheel associated with the lock, and means having connection with the pivoted locking arm for moving the locking arm into its locked position.

1,384,076. DUSTPAN. ARTHUR MCCALLAN, Ottawa, Ontario, Canada. Filed Jan. 29, 1921. Serial No. 440,912. 1 Claim. (Cl. 65—20.)



As a new article of manufacture, the herein described dust pan comprising a base, the said base having its edge portion sheared to form a series of alternately disposed lips, each alternate lip adapted to be bent outwardly of the next succeeding lip, said lips being resilient, a strip of resilient material having its end received between said lips, washers bearing against said material adjacent the adjacent edges of separated lips, and staples having extensions adapted to pass through the said extensions and resilient lips and resilient strip.

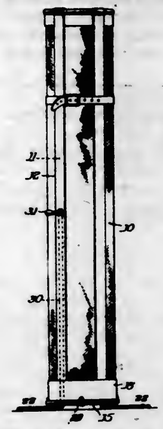
1,384,077. ROAD-CONSTRUCTION MACHINERY. HARRY P. MARTIN, Clearfield, Pa. Filed Apr. 23, 1921. Serial No. 463,912. 17 Claims. (Cl. 104—44.)



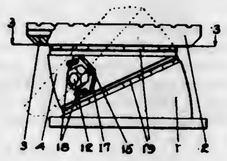
1. In a device of the class described, in combination a track, wheels operating on said track, a pair of substantially parallel girders adapted to carry a load, means substantially centrally positioned with respect to said girders and secured thereto to pivot said girders for rotation and for carrying part of the load on said girders, means substantially co-axial with said pivoting means and providing a supporting surface for said pivoting means and a plurality of arched transverse members coöperating with said girders and said pivoting means.

1,384,078. SELF-SUPPORTING GOLF-BAG. THEODORE W. MAY, Chicago, Ill., assignor of one-half to William F. Buckingham, Chicago, Ill. Filed May 3, 1918. Serial No. 232,201. 17 Claims. (Cl. 224—45.)

1. In a bag of the class described, the combination with the body thereof, of a plurality of supporting feet carried thereby and each comprising angularly-disposed arms one of which is pivotally connected to said body, said feet being adapted to fold together with the contiguous arms thereof nesting upon each other when in such folded relation, and means for actuating the supporting feet to move the same to supporting and non-supporting positions.

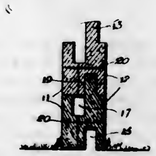


1,384,079. WORK-HOLDER. HERMAN W. MELLING, Jackson, Mich. Filed May 29, 1920. Serial No. 385,308. 6 Claims. (Cl. 90—58.)



1. In a structure of the class described, the combination of a base, an intermediate member rotatably mounted on said base, a top member rotatably mounted on said intermediate member, said members having coacting annular flat bearing faces, the coacting bearing faces of said base and intermediate members being inclined to their axes of rotation, the inner edges of the bearing faces of the top and bottom members being inwardly beveled, and the intermediate member being provided with coacting beveled bearing segments, clamping members mounted on said intermediate member opposite to its said bearing segments and provided with beveled clamping lugs coacting with the bevels of said top and bottom member, said clamping members being provided with clamping bolts disposed through said intermediate member, and a pair of stop screws for each clamping member.

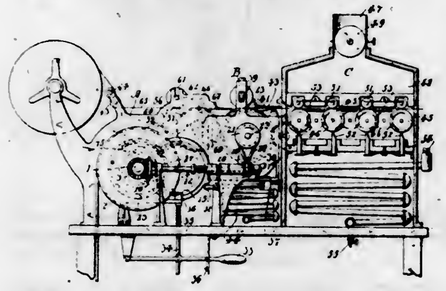
1,384,080. SELF-LINING INTERLOCKING BUILDING-BLOCK. JOHN JAY MERREN, Port Arthur, Tex. Filed May 10, 1920. Serial No. 380,175. 2 Claims. (Cl. 72—38.)



1. A building block having a rectangular body provided with parallel directly opposing inner and outer surfaces

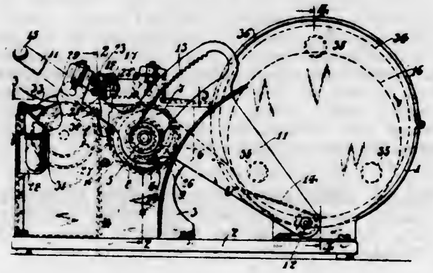
and having continuous ribs and rib receiving grooves along respectively opposite sides and ends located in the same plane parallel to the said surfaces and nearer to the outer surface than the inner surface, said block having grooves along one edge and one end located between its inner surface and the first mentioned ribs and grooves.

1,384,081. STRIP-SERVING DEVICE. CHARLES GREENOUGH MORTIMER, East Orange, N. J., assignor to National Binding Machine Company, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1914, Serial No. 812,692. Renewed Oct. 30, 1920. Serial No. 420,851. 13 Claims. (Cl. 91—14.5.)



1. In a strip serving apparatus, the combination with means for supporting a roll of tape, of means adapted to feed the tape and to sever the tape automatically into strips of predetermined length, means for conveying the successive severed strips automatically from said severing device, means to render adhesive one side of the severed strips, and means for absorbing moisture from the adhesive material on said severed strips whereby said strips may be in prime condition for immediate application to a box, package or the like.

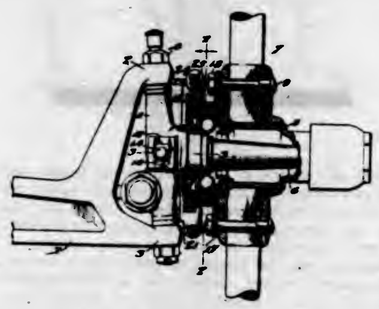
1,384,082. STRIP-SERVING MACHINE. CHARLES G. MORTIMER, East Orange, N. J., assignor to National Binding Machine Company, New York, N. Y., a Corporation of New York. Filed June 25, 1915, Serial No. 36,199. Renewed Oct. 30, 1920. Serial No. 420,852. 7 Claims. (Cl. 91—14.5.)



1. In a machine adapted to deliver a severed strip of adhesive tape for manual application to a package or the like, the combination of a holder for a supply of tape, feeding means, a moistener, severing means including an end pivoted scissors blade having a normal inoperative position above the path of the tape and means whereby said blade may be moved to a position below the path of the tape before each cutting stroke thereof.

6. In a machine for serving adhesive strips of tape, the combination of a tape support, a bath for moistening fluid, and a porous moistening member adapted to carry water therefrom and absorb moisture therefrom without increasing its volume, and to transfer moisture to said tape by absorption and superficially.

1,384,083. WHEEL-HUB-LOCKING DEVICE. DANIEL R. MURPHY, Uniontown, Pa., assignor of one-half to R. M. Fry, Uniontown, Pa. Filed Feb. 19, 1920. Serial No. 359,858. 3 Claims. (Cl. 301—122.)



1. A hub locking device including with an axle having a bearing spindle, a hub mounted on said spindle and provided with a bearing flange concentrically around the spindle bearing, a pair of casing members fitted around the axle and having bearing flanges interfitting with the flange of the hub, and bolts carried by said axle to rigidly secure the casing members against movement thereon.

1,384,084. COMBINED INCUBATOR AND BROODER. JOHN R. MYERS, Buffalo, N. Y. Filed Apr. 4, 1917. Serial No. 159,841. 4 Claims. (Cl. 119—30.)

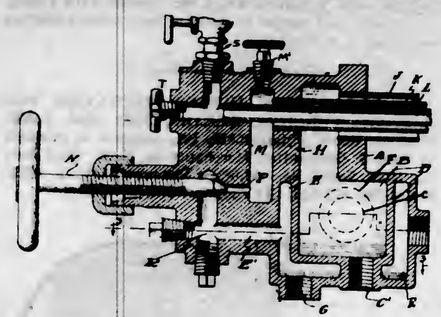


3. A device of the character described consisting of a chamber adapted to be used as either an incubator or as a hover inclosed by walls and a roof, one of said walls being formed in part by a horizontally hinged door which when the chamber is used as an incubator lies in the plane of the rest of said wall, and, when said chamber is used as a hover in connection with a brooder secured thereto, is swung up to allow passage between said hover and said brooder and to act as a portion of the roof of said brooder.

1,384,085. OIL-BURNER. ROBERT PAPENDELL, Detroit, Mich. Filed Jan. 31, 1920. Serial No. 355,525. 5 Claims. (Cl. 158—74.)

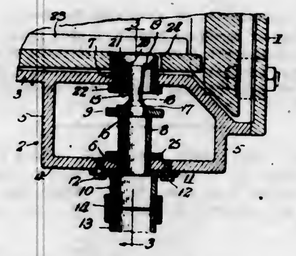
3. In an oil burning apparatus, the combination with a plurally chambered and apertured shell, of a corresponding number of concentrically arranged discharge nozzles leading therefrom, means for admitting oil and live steam into each of said shell chambers independently of the others, means for additionally heating the oil in that one

of the chambers with which the largest diametered discharge nozzle is connected, and means adapted to control



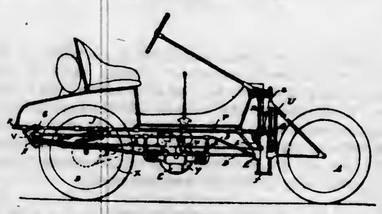
the possible escape of mingled steam and oil particles from said nozzles, whereby its direction of egress and further volatilization may be regulated.

1,384,086. NOZZLE AND NOZZLE-FITTING. HERMAN A. POPPENHUSEN, Hammond, Ind., and ARTHUR P. STRONG, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind., a Corporation of Illinois. Filed Aug. 22, 1919. Serial No. 319,110. 10 Claims. (Cl. 299—107.)



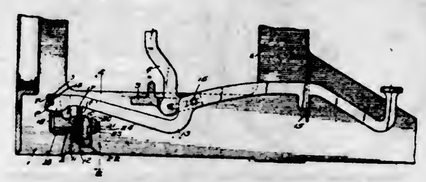
7. The combination with a pipe section, of an open bracket secured to and projecting outward from said pipe section, a nozzle discharging into the pipe section and located in the space between the same and said bracket, the outer end of the nozzle terminating short of said bracket, and means releasably connecting the outer end of said nozzle with said bracket.

1,384,087. MOTOR-VEHICLE. ANDREW J. PURDY, San Francisco, Calif. Filed June 26, 1920. Serial No. 392,051. 3 Claims. (Cl. 180—2.1.)



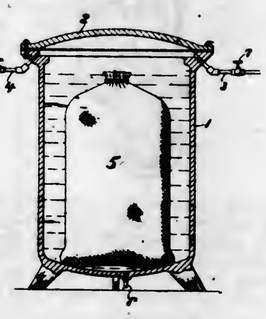
1. In a motor vehicle of the character described, a main frame, a secondary frame with a supporting wheel intermediate the wheels of the main frame, the axles of the main and secondary frame wheels being on fixed different planes, the motor and power plant carried by said secondary frame, means movably connecting said frames, and means for raising the main frame and allowing the vehicle to run on the wheel of the secondary frame.

1,384,088. KEY-LEVER SPRING-LOCK. ADOLPH J. PRUSZYNSKI, Chicago, and ALFRED O. H. EBERT, Woodstock, Ill., assignors to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Feb. 4, 1918. Serial No. 215,238. 11 Claims. (Cl. 197—33.)



1. In a typewriter, a plurality of key levers, a tension spring for each of said key levers, an adjusting screw for each of said tension springs, and resilient means for separately holding each of said adjusting screws in various positions of rotation, said resilient means comprising a plurality of spring tongues, one for each screw, each tongue being arranged to engage its respective screw at one side thereof and to exert pressure laterally on said screw.

1,384,089. PROCESS FOR SOLIDIFYING CARBON AND SIMILAR MATERIALS. CHESTER J. RANDALL, Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company, a Corporation of Connecticut. Original application filed July 26, 1919, Serial No. 313,660. Divided and this application filed July 30, 1920. Serial No. 400,275. 6 Claims. (Cl. 100—56.)



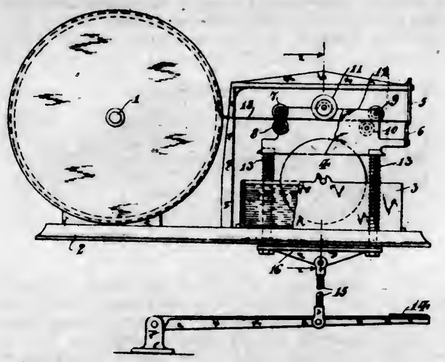
1. The process of treating carbon particles, comprising exhausting air from between the particles and subjecting them to pressure.

5. The process of compacting carbon or similar materials, comprising placing the carbon within a bag constructed to permit the passage of air therefrom, immersing the bag in a fluid contained in a chamber, closing the latter and exhausting it of air whereby the air associated with the carbon bubbles through the fluid and is removed by the exhaust, shutting off the exhaust and admitting fluid under pressure to compact the carbon, and then removing the bag and its contents.

1,384,090. STRIP-SERVING DEVICE. ARTHUR E. RIDEOUT, Chicago, Ill., assignor to National Binding Machine Company, New York, N. Y., a Corporation of New York. Filed Apr. 18, 1914, Serial No. 832,705. Renewed Oct. 30, 1920. Serial No. 420,853. 4 Claims. (Cl. 91—14.5.)

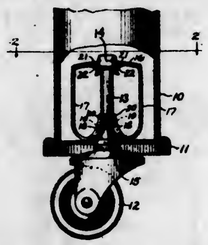
1. A device for serving adhesive strips of tape comprising in combination, a support for a supply of tape, means for moistening the tape to render it adhesive, a

yielding support having guide rollers for the free end of the tape, and severing means, comprising a fixed blade



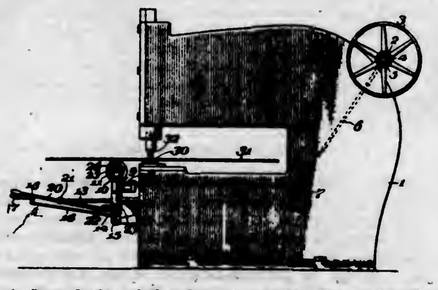
and a blade mounted on the yielding support and adapted to coact with the fixed blade to sever a strip of tape at the will of the operator.

1,384,091. TUBULAR-LEG CASTER-RETAINER. FRANK L. ROWNTREE, Meriden, Conn., assignor to Foster, Merriam and Company, Meriden, Conn., a Corporation of Connecticut. Filed Mar. 5, 1921. Serial No. 449,697. 1 Claim. (Cl. 16—4.)



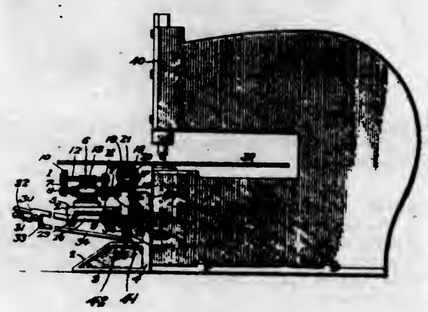
A tubular leg caster retainer made from resilient strip metal, and comprising a cross piece having pintle locking lugs struck inward therefrom, spring arms extending from the cross piece, and upwardly and inwardly turned pintle bearing members provided with centrally located grooves therein, at the ends of said spring arms.

1,384,092. PLATE-MOVING MECHANISM FOR PRESSES, PUNCHES, AND SHEARS. HERBERT RUFF, Philadelphia, Pa., assignor of one-half to Leon G. Buckwalter, Merchantville, N. J. Filed July 12, 1918. Serial No. 244,659. 18 Claims. (Cl. 164—49.)



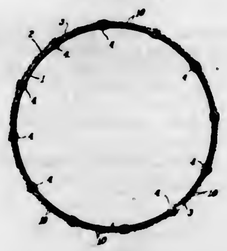
1. In a device of the character stated, the combination of driving mechanism of a punch, press or shear, a constantly rotating, freely revoluble plate-joggling wheel operatively connected with said driving mechanism, means to bring said plate actuating wheel into contact with a plate to be moved, and means to position said plate actuating wheel about a vertical axis.

1,384,093. PLATE-MOVING MECHANISM FOR PRESSES, PUNCHES, SHEARS, AND THE LIKE. HERBERT RUFF, Philadelphia, Pa., assignor of one-half to Leon G. Buckwalter, Merchantville, N. J. Filed July 12, 1918, Serial No. 244,660. Renewed May 21, 1921. Serial No. 471,523. 19 Claims. (Cl. 271—51.)



4. The combination of a suitable framework, a vertical shaft rotatably mounted therein, a stud projecting laterally from said shaft, a notched or serrated wheel carried by said stud and having gear teeth thereon, a gear loosely mounted on said vertical shaft, and means for rotating said gear.

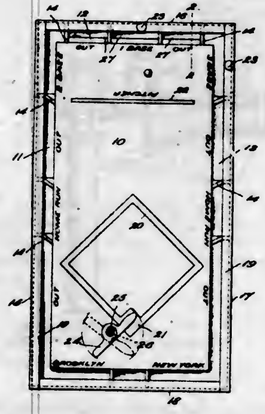
1,384,094. RESILIENT PONTOON. ALOIS B. SALIGER, New York, N. Y., assignor to Saliger Ship Salvage Corporation, New York, N. Y. Filed July 13, 1920. Serial No. 395,976. 3 Claims. (Cl. 114—54.)



1. A resilient pontoon, comprising a plurality of independent concentrically assembled casings, each of which casings being attached to the one adjacent to it at a multiplicity of approximately evenly distributed points, a means for inflating and a means for quickly deflating said pontoons, and a pressure regulating device adapted to automatically regulate the air pressure within the pontoon substantially as shown and described.

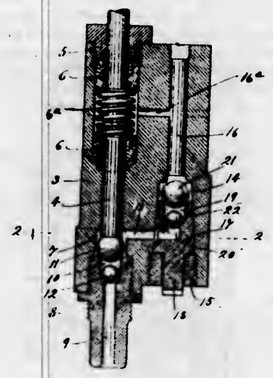
1,384,095. GAME. FERDINAND F. SCHAUBA, Brooklyn, N. Y. Filed Dec. 31, 1920. Serial No. 434,200. 2 Claims. (Cl. 46—61.)

1. A game board comprising a central field having a projection center thereon, and means for impelling game pieces from said center, combined with a gutter at the marginal edge of the field, said gutter having an upwardly and outwardly inclined back wall adapted to elevate and check projected game pieces deposited in the



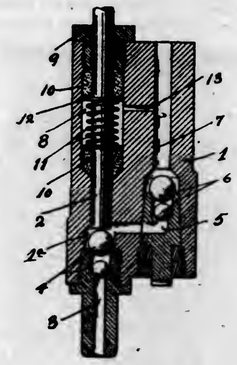
gutter, and having an inwardly projecting ledge overhanging said inclined wall for deflecting elevated game pieces back into the gutter.

1,384,096. CHECK-VALVE STRUCTURE. WILLIAM J. SCHLACKS, Chicago, Ill., assignor to McCord and Company, Chicago, Ill., a Corporation of Delaware. Filed July 25, 1918. Serial No. 246,736. 2 Claims. (Cl. 103—75.)



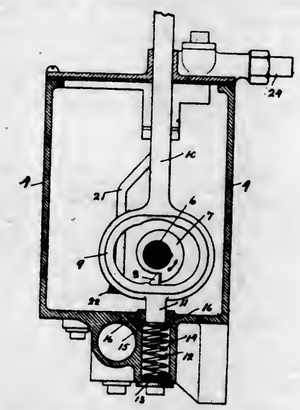
1. A pump mechanism comprising an integral pump body of oblong cross section, two parallel bores extending therethrough, a transverse passage connecting the same near the lower end, a plunger fitted in the upper end of one bore, a ball chamber formed near the lower end of said bore and a longitudinally apertured plug in the lower end of said bore, said plug forming an intake conduit, and a ball valve coöperating with the upper end thereof, the second bore being tapered near its lower end, a tapered check valve cage fitted therein, a plug screwed into the end of said bore having an aperture therein, and a stem on said cage extending through said aperture, a lateral opening in said cage communicating with the passage in said pump body, and a ball valve carried in said cage, the second bore above the cage forming an outlet passage for the pump.

1,384,097. PISTON-PACKING. WILLIAM J. SCHLACKS, Chicago, Ill., assignor to McCord & Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 8, 1918. Serial No. 248,976. 2 Claims. (Cl. 103—61.)



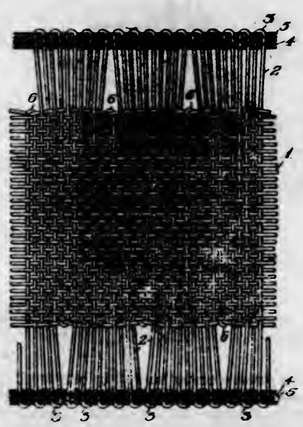
1. A high pressure pump having in combination a pump casing, intake and discharge check valves arranged therein, a pump piston chamber and a pressure chamber extending parallel thereto, spaced packing members disposed about said piston, the pressure chamber communicating with the space between said members whereby said packing will be subjected to the pressure produced by the piston in the said pressure chamber.

1,384,098. LUBRICATOR-PUMP. WILLIAM J. SCHLACKS, Chicago, Ill. Filed Aug. 31, 1918. Serial No. 252,229. 6 Claims. (Cl. 184—27.)



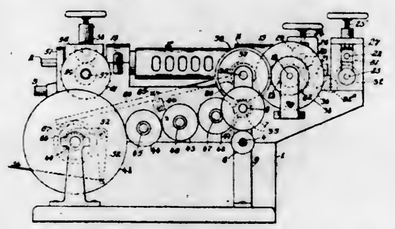
4. In a force feed lubricator, the combination with a reciprocating pump, wherein the plunger is the movable element, of a pump actuating mechanism, comprising a rotary cam, a coöperating retracting spring, and a transmission device, which cam has a camming surface of substantially 360 degrees continuous increase from its lowest to its highest point and is positively operative on said transmission device and pump plunger throughout substantially 360 degrees of its rotation to impart to said pump plunger a substantially continuous oil delivery movement and also serves to set said retracting spring under increased tension, and which spring, when released by said cam, becomes operative through said transmission device to impart a substantially instantaneous yielding return or suction stroke to said pump plunger, substantially as described.

1,384,099. AEROPLANE FABRIC. CHARLES P. SCHLEGEL, Rochester, N. Y., assignor to The Schlegel Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 9, 1918. Serial No. 249,051. 4 Claims. (Cl. 139—9.)



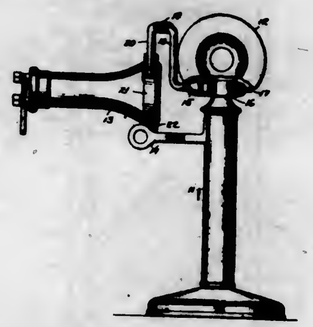
3. A fabric for aeroplanes comprising a body portion having a plurality of warp threads and a continuous weft interwoven therewith, and a selvage thereon formed of a plurality of warp threads spaced from the body warp and interwoven with the weft, which is bent to form a bight about the outermost thread of the selvage warp, said weft being bent at fixed intervals to form bights about the outer threads at each side of the body warp, the bights at one side being staggered in relation to those at the other side.

1,384,100. WIRE STRAIGHTENING AND CUTTING-OFF MACHINE. ELMORE F. SHUSTER, New Haven, Conn. Filed Apr. 28, 1920. Serial No. 377,318. 2 Claims. (Cl. 140—140.)



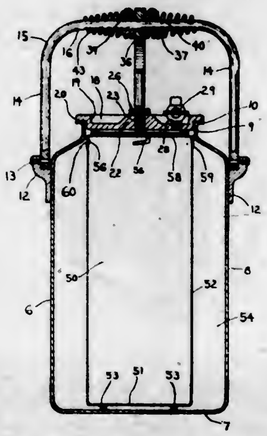
1. In a machine of the character described having a head, a straightening arbor journaled in the head, a worm on the arbor, cam shaft, and cutting off lever, forward and rear feed roll shafts, feed rolls mounted thereon, of a motor shaft, motor shaft gear, a worm gear shaft, a worm gear thereon meshing with the arbor gear, a gear on the latter shaft meshing with the motor shaft gear, a clutch shaft, a clutch plate and a clutch gear mounted thereon, a gear on the worm gear shaft meshing with the clutch gear, a pivoted lever connected with the clutch plate, a cam on the cam shaft controlling said lever, a gear and a sprocket wheel mounted on one of the rear feed roll shafts, a gear on the clutch shaft meshing with the feed roll shaft gear, a sprocket wheel mounted on one of the forward feed roll shafts, and driving means uniting the sprocket wheels to rotate all of the feed rolls.

1,384,101. SERVICE-BRACKET FOR TELEPHONE-RECEIVERS. SIDNEY C. SLADDEN, New York, N. Y. Filed July 31, 1919. Serial No. 314,455. 4 Claims. (Cl. 179—149.)



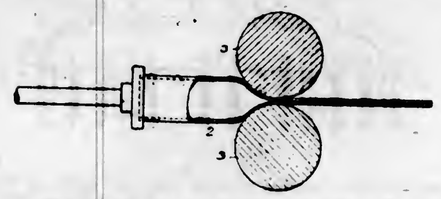
1. A support as characterised comprising, an arm for engaging a telephone receiver; means for pivotally mounting said arm so that the end thereof holding said receiver may be moved to dispose said receiver upon the receiver hook of the telephone associated therewith to establish the inactive condition of said telephone; and means for adjusting at will the active position of said arm.

1,384,102. STEAM COOKING VESSEL. JOHN T. SLOCOMB, Providence, R. I. Filed June 9, 1920. Serial No. 387,556. 3 Claims. (Cl. 53—1.)



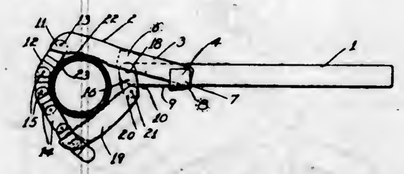
2. In a cooking apparatus, a steam confined outer receptacle, a cover on the receptacle, a post on the cover provided with a seat, a resilient clamping bail on the receptacle supported in the seat, and an inner receptacle comprising a body centrally mounted in the outer receptacle and spaced therefrom, and provided with bayonet depressions upon its margin, a cover embracing the body and provided with bayonet shoulders engaging the depressions, and a bail on the second cover.

1,384,103. METHOD OF FLATTENING PIPE. HOWARD W. SMITH, Ellwood City, Pa. Filed Feb. 4, 1920. Serial No. 356,247. 4 Claims. (Cl. 153—54.)



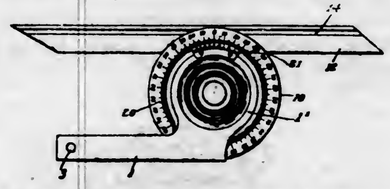
1. The method of scrapping defective pipe, consisting in forcing the pipe longitudinally between rolls with the end entering the rolls being of its original shape and diameter, and allowing the metal to spread laterally without restraint.

1,384,104. PIPE-WRENCH. JOHN G. SMITH, Falls Mills, Va. Filed Feb. 25, 1921. Serial No. 447,761. 1 Claim. (Cl. 81—66.)



A pipe wrench comprising a handle; a jaw forked at its rear end for straddling the forward end of the handle and pivoted thereto at a point back from the handle end; a loop connecting the rear ends of the forks across the under side of the handle so as to leave a space thereunder; a flat spring attached by one end to the forward end of the handle at the under side and having its free end disposed under said loop; another jaw; a knuckle pivotally connecting the rear end of the last named jaw with the forward end of the handle; and means for releasably locking together the forward ends of the two said jaws.

1,384,105. FINE-ADJUSTMENT BEVEL-PROTRACTOR AND THE LIKE. LEROY S. STARRETT and JOHN A. ADELL, Athol, Mass., assignors to The L. S. Starrett Company, Athol, Mass., a Corporation of Massachusetts. Filed Mar. 6, 1920. Serial No. 363,690. 17 Claims. (Cl. 33—102.)



1. In an instrument of the class described, a frame, a turret revolubly mounted therein, an auxiliary adjusting means for said turret including an operating member permanently embodied in said instrument and positionable in an engaged or disengaged relation to said adjusting means.

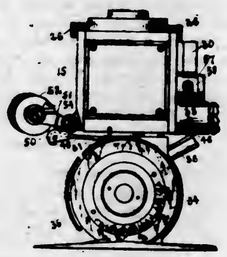
1,384,106. SIGN-HOLDER. JOSEPH TAUSSIG, Chicago, Ill. Filed Jan. 15, 1921. Serial No. 437,425. 1 Claim. (Cl. 40—146.)

A sign holder comprising a sheet metal base portion having an upwardly struck-up recessed part formed with a transverse slot near one edge of the base portion, a flat strip of metal comprising a standard and having a sign holding member secured to its upper end and having a right angle bent portion at its lower end adapted to be contained in said recessed part with the upright portion of the standard bearing against one edge of the slot, and a screw extending through the top of said recessed part



and threaded in the laterally bent part of the standard and acting to detachably secure together the base portion and standard, with the standard in engagement with said edge of the slot, said base portion being adapted to be folded up against said standard and held against disconnection therewith by said screw when inserted in said right angle bent portion of the standard.

1,384,107. CUTTING-MACHINE. EDWARD M. WARING, Brooklyn, N. Y. Filed May 26, 1916. Serial No. 100,015. 5 Claims. (Cl. 164—76.)

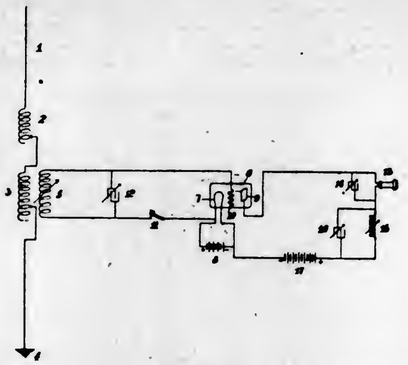


1. In a cloth cutting machine, the combination of a knife, a guard for the same, sharpening wheels for said knife, a member for moving said sharpening wheels into contact with the knife, a pivoted arm for actuating the said member and a guard operating lever pivoted on the said arm.

1,384,108. MEANS FOR GENERATING ELECTRICAL OSCILLATIONS. ROY A. WEAGANT, Roselle Park, N. J., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Apr. 9, 1914. Serial No. 830,584. 7 Claims. (Cl. 250—36.)

1. An oscillation generator system including a sealed evacuated vessel in which oscillations are generated, said vessel inclosing three electrodes, means for maintaining current through one of said electrodes, two circuits exterior to said vessel and connected each between two of said electrodes, one of said circuits contain-

ing an electrode not in the other circuit and including a source of continuous current causing the production of



oscillations in said vessel, and one of said circuits containing sufficient ohmic resistance to materially and favorably affect the production of oscillations.

1,384,109. WOODEN HEEL. WILLIAM ORLANDO WIPPERT and WALTER D. SPITZER, Marion, Ohio. Filed Oct. 22, 1919. Serial No. 332,397. 5 Claims. (Cl. 36—34.)



1. A heel having the major portion thereof made of wood and provided with an aperture extending through said wooden portion, a bottom wooden section attached to the heel, a post provided with an interiorly threaded end inserted in the aperture leaving the threaded end extending below the bottom of said wooden portion and means to attach a lift to the post and bottom section.

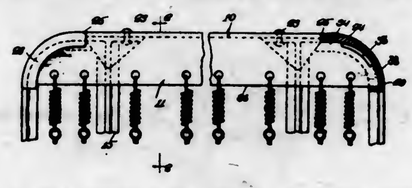
1,384,110. SURFACE-FINISHING OF BITUMINOUS-COMPOSITION ROOFING. JAMES C. WOODLEY, Evanston, Ill. Filed Feb. 24, 1915, Serial No. 10,239. Renewed Oct. 25, 1919. Serial No. 333,367. 7 Claims. (Cl. 154—2.)

1. The method of manufacturing bituminous composition roofing which consists in forming the composition into sheets and pressing the surface of said sheets against a sheet of textile material while such surface is in a plastic condition to emboss on said roofing sheets a design in imitation of said textile material, said sheet of textile material being wet to prevent adhesion of the roofing sheets thereto.

3. The herein described process which comprises the step of forming upon the surface of a sheet of roofing material, integral raised portions predetermined as to size and location, said portions being less than one inch apart.

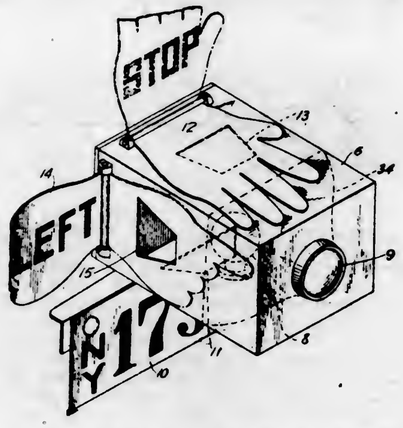
1,384,111. SPRING-BED-BOTTOM STRUCTURE. WILLIAM B. ANDERSON, Chicago, Ill., assignor to Haggard & Marcusson Co., Chicago, Ill. Filed Sept. 22, 1920. Serial No. 411,891. 2 Claims. (Cl. 5—63.)

1. A bed bottom corner bracket comprising an arm having a socket at one end for holding a side rail, an outwardly curved vertical web at the upper end of the arm and against which the curved end of an end rail may abut,



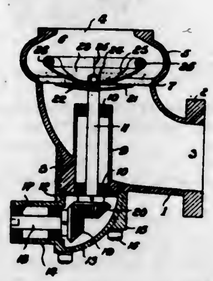
and a ledge extending inwardly from the upper curved edge of the web for overlying and covering the joint with the end rail and strengthening the same.

1,384,112. AUTO-SIGNAL. JOHN E. ANDREGG, Warren, Conn. Filed Jan. 24, 1921. Serial No. 439,534. 14 Claims. (Cl. 116—45.)



1. In a signal device, a box having light passages on the top and on the sides, signal members having characters thereon and hinged to said box and normally covering said passages, a lamp within said box adapted to illuminate said signal members, and means for selectively moving said signal members to uncover any one of said passages and permit the light to illuminate the characters on the moved signal member.

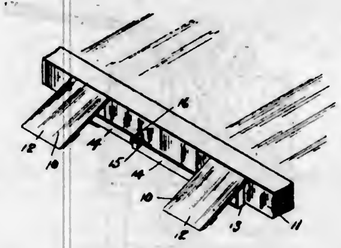
1,384,113. VALVE-GOVERNOR. ALBERT ARNOLD, Detroit, Mich. Filed Aug. 23, 1919. Serial No. 319,440. 7 Claims. (Cl. 137—140.)



7. The combination of a conduit, and a rotary valve in said conduit and having its central portion in a horizontal

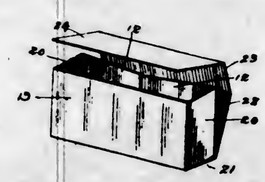
plane and its peripheral edges above said plane and adapted to be lowered toward said plane to restrict the passage between said conduit and said valve.

1,384,114. RUNWAY. LINCOLN R. ARNOLD, Providence, R. I. Filed Nov. 5, 1920. Serial No. 422,020. 4 Claims. (Cl. 94—31.)



1. A runway comprising a pair of spaced apart short inclined bridge members each having a rest block at one end for supporting said end the height of a curbstone, and a pair of foldable spacing arms or bars connecting said members whereby said members may be positioned adjacent each other.

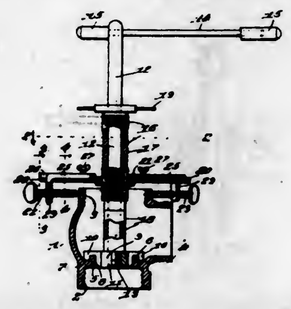
1,384,115. PACKAGE-WRAPPER. DANIEL L. BAXTER, Pawtucket, R. I. Filed Apr. 30, 1920. Serial No. 377,825. 1 Claim. (Cl. 229—16.)



As a new article of manufacture a protecting wrapper of bendable sheet material comprising a front wall having marginal wings folded back to form end walls, their extremities extending a substantial distance toward each other across the back of the wrapper and bound between the rear wall of the wrapper and the package contained within it, the lower edge of said front wall having an integral foldable member extending rearwardly forming the bottom, then upwardly forming the rear wall, then forwardly forming the top of the wrapper, the front edge of the top portion being provided with a flap having a depth substantially one-half the height of said front wall and adapted to be tucked inside of said front wall to be bound between said wall and the package within to securely lock the wrapper about the package, the extremity of said flap being formed without laterally-extending tabs.

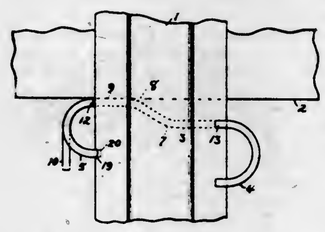
1,384,116. COMBINED FORCE-FEED AND OPERATING DEVICE. ISAAC J. BLAIR, Spokane, Wash. Filed June 1, 1920. Serial No. 385,856. 5 Claims. (Cl. 90—12.5.)

1. In a combined forced feed and operating device for valve seat dressing tools, an operating spindle having a dressing tool for engagement with the seat of the valve, a forced feed sleeve rotatably telescoping said spindle and engaging said tool, and means radially adjustable against the exterior of valves of different sizes and having threaded engagement with the exterior of said sleeve to steady



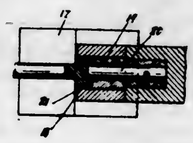
and center the latter and said spindle whereby said sleeve may be rotated to force said tool gradually against said seat as said spindle is rotated to dress said seat.

1,384,117. RAILWAY-RAIL ANCHOR. ROLANDIS A. BLAIR, Fort Wayne, Ind., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 4, 1919, Serial No. 321,687. Renewed May 31, 1921. Serial No. 473,778. 7 Claims. (Cl. 238—330.)



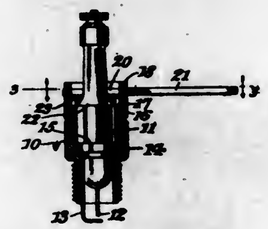
1. In a rail anchor, a spring plate formed with back turned ends and an off-set formed between its ends, and having a recess between its ends for the reception of the foot of the rail, there being a notch formed in the plate at one end of the recess and also in the extremity of each of the back turned ends.

1,384,118. MANUFACTURE OF NUTS AND SIMILAR ARTICLES. JOHN R. BLAKESLEE, Cleveland, Ohio, assignor to The Ajax Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 23, 1919. Serial No. 312,722. 3 Claims. (Cl. 10—86.)



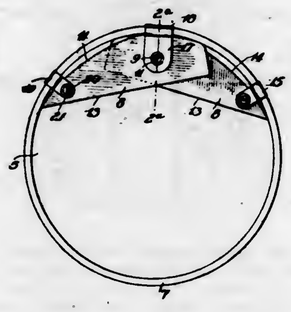
1. A method of making nuts and the like, which consists in upsetting the end of such stock bar into a nut of the desired size and shape with a flash of metal at the base thereof, and then cutting off such flash and simultaneously punching centrally through such nut and cutting the same from such stock bar.

1,384,119. SPARK-PLUG. WILLIAM BOHLERMS, New York, N. Y. Filed Jan. 26, 1917. Serial No. 144,612. 14 Claims. (Cl. 123—169.)



1. A spark plug comprising a bushing, a removable core for the bushing, a hollow rotatable lock-nut screw-threaded to the bushing, in combination with a member adapted to rotate the same, said member having a bifurcated portion for straddling the upper portion of the core and adapted to apply pressure to the latter, and means for equalizing the pressure upon said core.

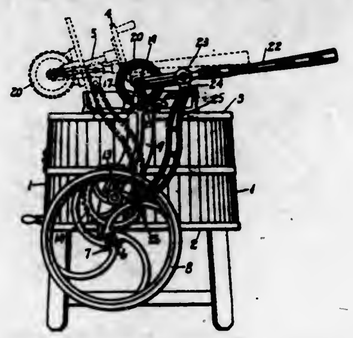
1,384,120. ATTACHMENT FOR CONTAINERS. CHAUNCEY CRAFT, Rochester, N. Y. Filed Aug. 6, 1919. Serial No. 315,750. 3 Claims. (Cl. 220—90.)



1. The combination with a container having an open top, of an attachment therefor comprising a plurality of substantially plate-like members movably connected with one another to permit the conformation thereof to the interior wall of containers of different dimensions, and securing means arranged to engage over the top edges of the container for removably attaching said members to the container adjacent its top in position for removing excess material from a dispensing implement or for supporting the same.

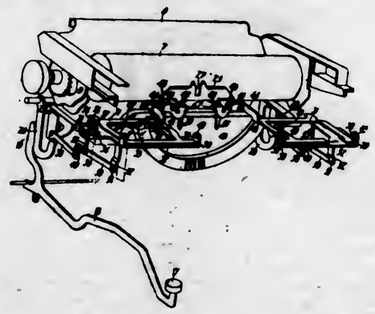
1,384,121. OPERATING DEVICE FOR WASHING-MACHINES. LOUIS E. DIETZ, Cincinnati, Ohio. Filed Jan. 24, 1916. Serial No. 73,870. 2 Claims. (Cl. 74—7.)

2. Operating mechanism for washing machines comprising a substantially vertical bracket provided at its lower end with a horizontal shaft, a small spur gear and a fly wheel mounted on said shaft and jointly movable, a stud shaft carried by the bracket, a large spur gear mounted on the stub shaft and meshing with the small spur gear, a hinged support, an oscillating shaft carried by the hinged support and provided with an arm which is fixed to the oscillating shaft and extends in a direction opposite to the pivotal point of the hinged support, a pitman pivotally connected to said arm and to said large spur gear, a dasher shaft operatively connected with the oscillating shaft, a bracket carried by the hinged support and supporting the oscillating shaft, said last named



bracket being provided with a projecting lug, the substantially vertical bracket having a recess in which the lug normally rests, and a weighted lever pivotally connected to the substantially vertical bracket and engaging said projecting lug.

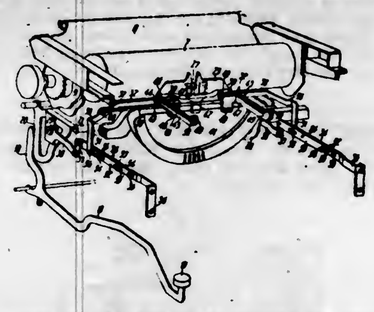
1,384,122. TYPEWRITING-MACHINE. JOHN C. DOANE, East Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 5, 1918. Serial No. 265,325. 21 Claims. (Cl. 197—190.)



1. The combination with a typewriting machine having a segment and a pair of ribbon-supporting devices one at each side of the segment, of a platen, a shift-frame for the platen, a scale in front of said platen, a support for each end of said scale pivoted to the corresponding ribbon-supporting device, and a linkage between said shift-frame and each of the scale-supports for shifting said scale with said platen.

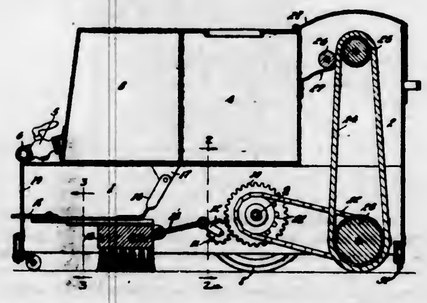
1,384,123. TYPEWRITING-MACHINE. JOHN C. DOANE, East Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 11, 1918. Serial No. 266,200. 23 Claims. (Cl. 199—190.)

1. In a typewriting machine, the combination with a platen and a shift-frame therefor, of a type-guide, a scale extending across the type-guide between the platen and the type-guide and having depending arms, linkages between said shift-frame and said arms for shifting said scale correspondingly when said platen is shifted, and a



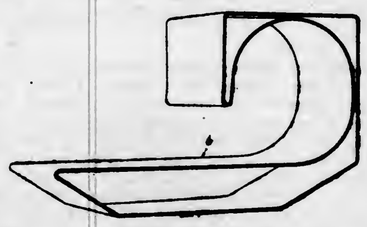
link pivoted to the frame of the machine and connected to the scale for guiding the scale relatively to the platen.

1,384,124. FLOOR SCRUBBING AND MOPPING MACHINE. WICENTY DROMZE, Cleveland, Ohio, assignor of one-half to Eugene Borowski, Cleveland, Ohio. Filed Dec. 12, 1919. Serial No. 344,334. 1 Claim. (Cl. 15—14.)



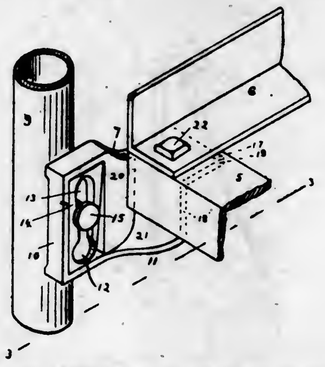
In a scrubbing machine, the combination of a wheeled casing having a slot in the front wall thereof, a guide in the casing, having a handle at its front end projecting through said slot, whereby said guide may be swung up or down, means to hold said guide in adjusted position, links pivoted to the side walls of the casing and secured to the rear end of said guide, a brush reciprocating in said guide, and means to reciprocate the brush.

1,384,125. CONVEYER-APRON. GLEN M. DYE, Minneapolis, Minn., assignor to Photographic Appliances Corporation, Minneapolis, Minn., a Corporation of Minnesota. Filed Oct. 12, 1918. Serial No. 257,850. 1 Claim. (Cl. 34—1.)



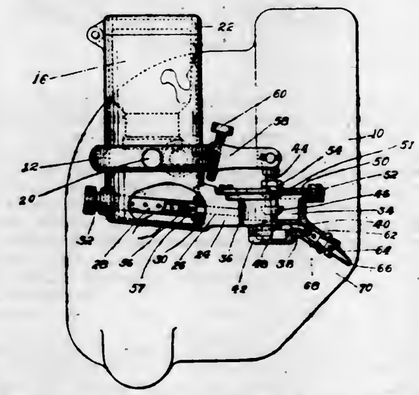
A drying conveyer apron comprising a facing and a backing, said facing being a fabric that will readily absorb moisture, and said backing being made up of vegetable fiber stems laid in close parallel arrangement transversely of the apron so as to stiffen said apron transversely, and warp threads connecting said fiber stems and extended longitudinally of the apron so as to give the apron great flexibility in that direction, the said facing and backing being connected so that they act as a single unit.

1,384,126. CORNER-FASTENING FOR BEDSTEADS. WILLIAM B. FOSTER, Utica, N. Y., assignor to Foster Brothers Manufacturing Company, Utica, N. Y., a Corporation. Filed Mar. 22, 1920. Serial No. 367,747. 1 Claim. (Cl. 5—55.)



In a corner fastening for bedsteads, the combination of a corner post, a corner block having a post engaging portion adapted to be detachably secured to said post and having a vertical bracket portion extending inwardly and laterally of the bedstead with a horizontal supporting web and a vertical supporting web adjacent thereto and both at right angles to the bracket portion, an angle bar of the mattress-supporting frame having its horizontal web resting upon the horizontal web of the bracket portion and having its vertical web against the said vertical web of the bracket portion and with its end butted against the bracket portion, the second member of the mattress-supporting frame placed on the horizontal web of said angle bar and over the horizontal web of the bracket portion and means extending through said horizontal web of the bracket portion and both frame members for permanently fastening them together.

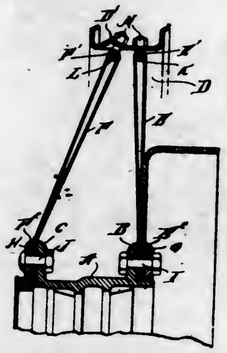
1,384,127. DISPENSING DEVICE. FREDERICK M. FURBER, Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 7, 1917. Serial No. 166,939. 28 Claims. (Cl. 91—43.)



1. A dispensing device comprising a fluid receptacle provided with an outlet passage, and relatively movable

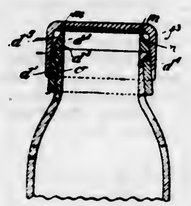
manually operable means associated with said passage for closing the same against delivery and for positively expelling the liquid from the outlet.

1,384,128. SHEET-METAL WHEEL. GEORGE A. GAER, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 30, 1918. Serial No. 256,180. 7 Claims. (Cl. 301—58.)



1. A wheel comprising a felly, a hub, having front and rear flanges, a series of spokes fastened to the front flanges, a series of spokes fastened to the rear flange, each spoke having its ends fastened to its respective flange, the intermediate portion of each spoke being connected to the felly.

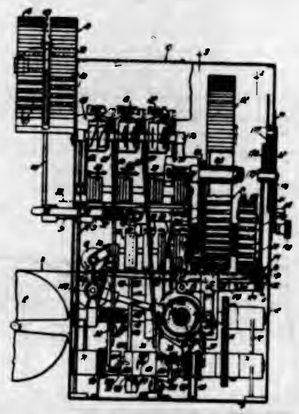
1,384,129. MILK-BOTTLE. FRANK GRANT, Westfield, Mass. Filed Jan. 17, 1916, Serial No. 72,410. Renewed Apr. 19, 1919. Serial No. 291,411. 2 Claims. (Cl. 215—38.)



1. A bottle closure consisting of a bottle having a neck provided with an external shoulder, a plastic collar molded on the neck and having an extension fitting over the shoulder, said extension having a beveled outer surface providing a sharp terminal edge for said collar, the outer surface of said collar being tapered, the narrower end of said tapered collar being uppermost, a cap having a pendant flange adapted to snugly fit the tapered outer surface of said collar, the top of said cap having a circular groove registering with the sharp terminal edge of said collar, and a yielding packing ring disposed in said groove and adapted to be compressed by said sharp terminal edge, the cap extending below and inclosing said shoulder and being frictionally held in place.

2. A bottle closure comprising a bottle having a relatively sharp edge extending from the neck thereof, a cap having a pendant flange adapted to embrace the edge and neck and provided with a circular groove in its top portion, and a yielding packing ring in said groove to engage the sharp edge of said neck, the upper portion of the neck being externally beveled, whereby an air space is provided between said beveled neck portion and the pendant flange of the cap, adapted to permit of a partial vacuum against the joint formed by said sharp edge and the gasket, the cap extending below and inclosing said shoulder and being frictionally held in place.

1,384,130. FARE-RECORDING AND TRANSFER-ISSUING MACHINE. HERMAN G. HALVERSON, Los Angeles, Calif. Filed Mar. 12, 1917. Serial No. 154,130. 11 Claims. (Cl. 235—31.)



5. In combination, transfer point printing mechanism capable of being set to print different transfer points, time printing mechanism capable of being set to print different times, and interconnective means whereby the setting of one mechanism effects automatically the setting of the other.

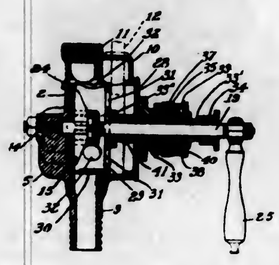
1,384,131. PISTON-RING. OSCAR W. HANSON, Salina, Kans., assignor of one-half to Joseph J. Sullivan, Salina, Kans. Filed Dec. 2, 1919. Serial No. 342,002. 2 Claims. (Cl. 74—109.)



1. A composite piston packing comprising a pair of coaxially disposed resilient ring sections of equal minor and major diameter and initially of a combined cross-section to loosely engage the piston groove in which they are to fit, one of said ring sections being of materially greater cross-sectional area than the other, the abutting faces of said ring sections extending on a diagonal line between their inner and outer peripheries, said diagonal line forming an angle of less than 30° with the end faces of the ring members, the outer periphery of the narrower ring section being reduced to a comparatively thin edge arranged for wearing contact with the cylinder wall, whereby, in the wearing of said ring sections and the cylinder wall and the resulting loosening of the packing in the piston groove, the ring sections will spring outwardly

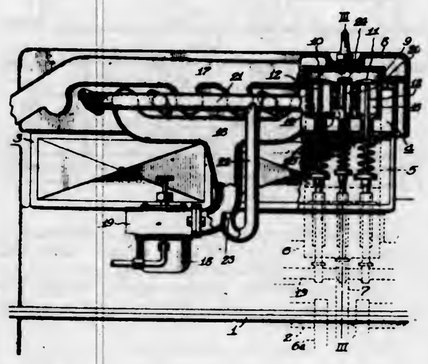
and the thin edge of the narrower ring section will engage and be rapidly worn away by the cylinder wall for a rapid seating action and adjustment of said narrower ring section to force the broader ring section outwardly and bind both ring sections against the walls of the piston groove.

1,384,132. MIXING-VALVE. SVEN N. HOLM, Dorchester, Mass. Filed July 5, 1919. Serial No. 308,784. 11 Claims. (Cl. 277—69.)



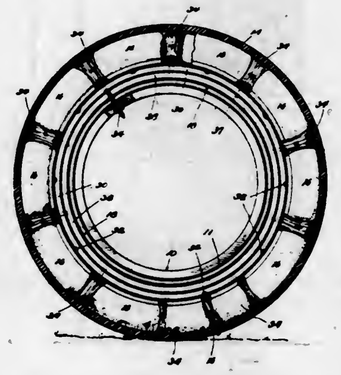
1. In a mixing fixture, a mixing chamber having independent pairs of inlet and discharge openings, and independent valves mounted coaxially within said mixing chamber and controlling said openings.

1,384,133. INTERNAL-COMBUSTION ENGINE. GEORGE D. HOWE, Davison, Mich. Filed Jan. 27, 1920. Serial No. 354,496. 1 Claim. (Cl. 123—119.)



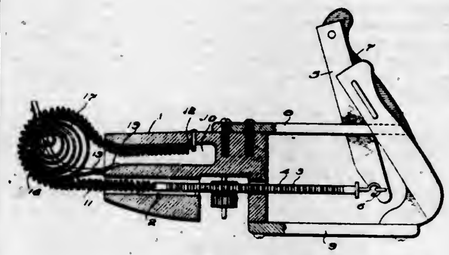
In an internal combustion engine, the combination with cylinders, an intake manifold therefor, and intake and exhaust valves controlling the admission of fuel to said cylinders from said intake manifold and the exhaust of burned gases from said cylinders, of an auxiliary manifold establishing communication between said cylinders and said intake manifold, said engine cylinders being proportioned to receive a greater quantity of fuel than usual so that the excess quantity of fuel may be heated and expelled from the cylinders to the intake manifold, and means controlling the expellation of the excessive fuel from said cylinders.

1,384,134. PNEUMATIC TIRE. NORMAN JACKSON, Washington, D. C. Filed Oct. 9, 1920. Serial No. 415,794. 9 Claims. (Cl. 152—22.)



1. A tire comprising main sections, emergency sections arranged in juxtaposition to the main sections, and a supply tube having a chamber communicating with said main sections and a chamber communicating with said emergency sections.

1,384,135. ACTUATING MECHANISM. DEMETRIOS KARAMANOUS, Donora, Pa. Original application filed Oct. 25, 1919, Serial No. 333,270. Divided and this application filed May 28, 1920. Serial No. 385,028. 4 Claims. (Cl. 185—9.)

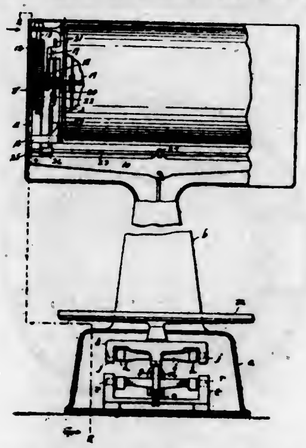


1. In a device of the type described, a reciprocable member, means for moving the member in one direction, a guide, a suitably supported clockwork spring having one end operating within the guide, and a coiled tension spring having one end fixed and extending about said clockwork spring, the free end of said tension spring being secured to said reciprocable member to move it in the opposite direction.

1,384,136. SCALE. BERT W. KING, Detroit, Mich. Filed Sept. 15, 1919. Serial No. 323,921. 8 Claims. (Cl. 265—69.)

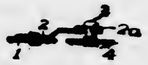
1. In a weighing scale, the combination of parallel levers pivotally supported at one end, a member connecting the ends of the levers, an actuating lever, a link or actuator

between one of the parallel levers and the actuating lever, and means on one of the latter two levers for shifting the



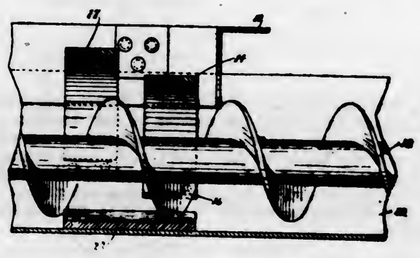
point of contact between the link and the lever in obedience to thermal changes.

1,384,137. CORSET. AUGUSTE J. LECOUTRE, Worcester, Mass., assignor to Royal Worcester Corset Company, Worcester, Mass., a Corporation of Massachusetts. Filed Nov. 19, 1919. Serial No. 339,139. 4 Claims. (Cl. 2—74.)



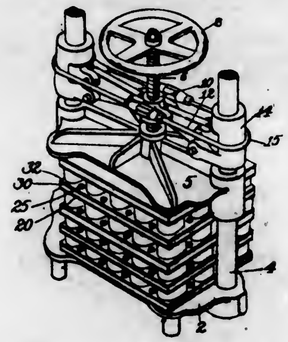
3. In a fastening for corsets and the like, a stud having a head and a base, said head tapering toward said base, and an eyelet member providing a keyhole slot having an enlarged portion to admit said head of said stud, and a narrowed portion too narrow to permit passage of the head of said stud therethrough, said eyelet member of greater effective thickness adjacent the narrowed portion of said slot than adjacent the enlarged portion thereof.

1,384,138. FUEL CONVEYING AND CRUSHING MECHANISM. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed Nov. 25, 1919. Serial No. 340,496. 9 Claims. (Cl. 83—52.)



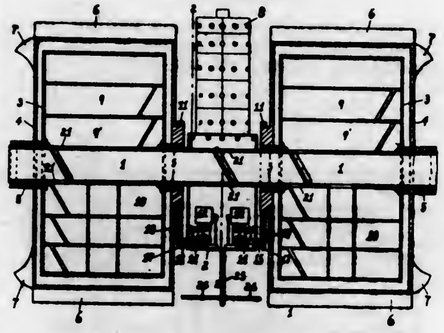
1. In a fuel conveyer and crusher, in combination, a conduit, fuel advancing means within the conduit, and a crushing abutment arching over the advancing means and co-acting therewith, such abutment being in the form of a plate having its inner face parallel with the axis of the conduit.

1,384,139. APPARATUS FOR AND METHOD OF TREATING HEELS. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 19, 1918. Serial No. 245,705. 17 Claims. (Cl. 12—48.)



1. Apparatus for treating heels comprising, in combination, a press, and a heel-carrying board for insertion therein, said board having a heel engaging face constructed and arranged for equalizing pressure on heels of varying height.

1,384,140. SHIP. BYNUM B. MCCROSKY, Oakland, Calif. Filed Nov. 11, 1919. Serial No. 337,246. 7 Claims. (Cl. 114—58.)

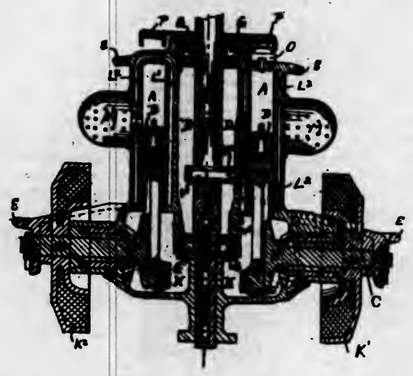


1. A ship including a transverse shaft, an intermediate compartment mounted on said shaft, paddle wheels journaled on the ends of said shaft, power means in the lower part of said intermediate compartment for driving said paddle wheels, and a passenger cabin mounted on said intermediate compartment.

1,384,141. AMMONIA-SODA PROCESS. JAMES H. MACMAHON, Saltville, Va., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a Corporation of Virginia. Filed Aug. 18, 1920. Serial No. 404,403. 4 Claims. (Cl. 23—22.)

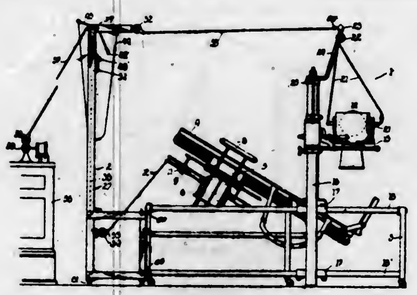
3. The improvement in the ammonia-soda process, which comprises separating water gas into hydrogen and carbon monoxid, producing synthetic ammonia by combining the hydrogen with netrogen, absorbing the ammonia in a brine solution adapted for use in the ammonia-soda process, burning the carbon monoxid from the water gas with a combustion supporting gas rich in oxygen, and thereby forming a gaseous mixture rich in carbon dioxid, and supplying the resulting gas to the carbonating towers of the ammonia-soda process.

1,384,142. WHEEL HAVING SELF-CONTAINED MOTOR. DALE MARSHALL, Cheltenham, England. Filed Nov. 7, 1917, Serial No. 200,852. Renewed June 21, 1920. Serial No. 390,669. 4 Claims. (Cl. 123—43.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In wheels containing motors which use a piston within a cylinder as part of their construction, the combination of a wheel hub formed to serve as a power cylinder, of collar-shape with peripheral flanges and so constructed as to centrally accommodate the carrying shaft or axle about which it is intended to operate, and a piston of like shape within the said cylinder moving lengthwise to the carrying shaft connected so as to give rotary motion to one of the co-acting members.

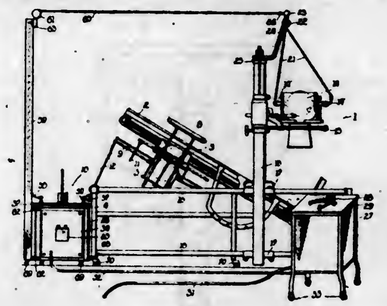
1,384,143. X-RAY APPARATUS. WILLIAM MEYER, Chicago, Ill. Filed May 20, 1918. Serial No. 237,213. 25 Claims. (Cl. 250—34.)



21. In combination, a frame, a table top carried by said frame, a tube-stand comprising an upright column adjustable along the frame independently of said table top, a carriage adjustable along the column, a tube supporting arm extending laterally from the carriage and above the table top, a tube adjustable along said arm, said tube having a terminal, a relatively stationary bracket extending from the column above the arm, a terminal mounted in insulated relation on said bracket, and an extensible conductor connecting the two terminals.

1,384,144. X-RAY APPARATUS. WILLIAM MEYER, Chicago, Ill. Filed May 31, 1918. Serial No. 237,379. 26 Claims. (Cl. 250—34.)

1. In combination, an independent X-ray table having an X-ray tube for the same, an independent generator cabinet for supplying electrical energy for an X-ray tube, means for joining said table and said cabinet into a



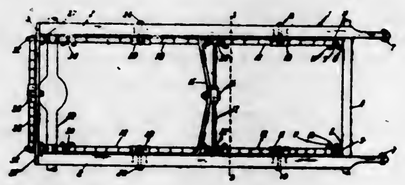
single movable unit, and a plurality of bearing members for facilitating movement of the table and cabinet over the supporting surface.

1,384,145. SHELL MAGAZINE AND FEEDER. BASIL MONLON, Palms, Calif., assignor of one-half to Harold David Coles, Palms, Calif. Filed May 27, 1920. Serial No. 384,752. 4 Claims. (Cl. 224—18.)



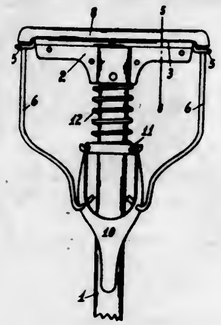
1. A cartridge holder, comprising a cartridge carrying magazine with pockets for carrying cartridges in parallel relation and with their heads in a common plane; a retaining member arranged over the magazine and covering the cartridges except at a withdrawing location; the cover member having a part to successively engage under the rims of the cartridges; and means for advancing the magazine to successively present the cartridges to the engaging means.

1,384,146. SPRING FOR MOTOR-VEHICLES. DONN H. MONTGOMERY, Denver, Colo. Filed May 18, 1920. Serial No. 382,420. 10 Claims. (Cl. 267—40.)



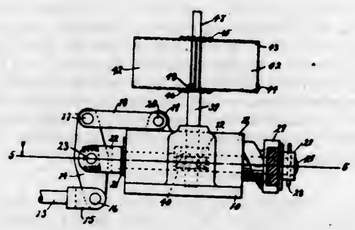
3. The combination with a vehicle frame and its associated front and rear axles, of springs pivotally connected to the sides of the frame and longitudinally thereof, a spring pivotally supported transversely of the frame, means pivotally supported by the rear axle for pivotally connecting one set of the side springs and the transverse spring, means carried by the front axles for pivotally connecting the other set of side springs to the frame, and means for pivotally connecting the adjacent ends of the side springs.

1,384,147. MOP-HEAD. JAMES W. MORRIS and JACOB L. RUDDICK, Oakland, Calif. Filed Apr. 14, 1920. Serial No. 373,820. 1 Claim. (Cl. 15—56.)



A mop holder including a handle, a rigid holding member secured on the end of said handle formed with a transverse tubular part, a wire extending through said tubular part, the ends of said wire being bent into eyes beyond the ends of said tubular part, a wire extending parallel and outside said holding member, said wire being bent into arms extending through said eyes, a V-shaped clamping member mounted on said outside wire, and means connected to the ends of said arms to draw said V-shaped clamping member upon said tubular part.

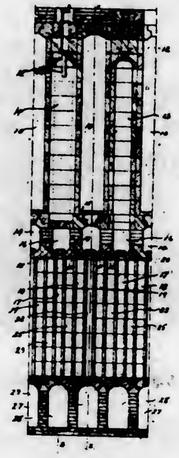
1,384,148. SWITCH STAND AND TARGET. DANIEL C. MULVIHILL, Hannibal, Mo. Filed Dec. 20, 1920. Serial No. 432,084. 11 Claims. (Cl. 246—405.)



1. Switch operating means comprising, in combination, a switch rod, a switch stand, a reciprocating member mounted on the stand, means to transmit motion of said member to said rod increased in amplitude, and means to vary the amount of such increase.

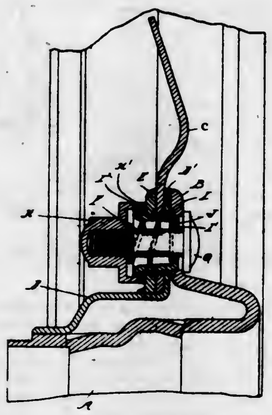
1,384,149. OVEN-HEATING SYSTEM. EMILE PIRON, New York, N. Y. Filed May 8, 1920. Serial No. 379,771. 2 Claims. (Cl. 202—9.)

1. A horizontal oven, a series of vertical combustion chambers adjacent the side wall of the oven, a burner at the upper end of each combustion chamber, a series of vertical air ducts adjacent the side wall of the oven, each air duct being located between a pair of the combustion chambers and communicating with the upper end of one of the combustion chambers, a horizontal waste gas flue extending beneath the floor of the oven and communicating with the lower ends of the combustion chambers, a horizontal air duct beneath the lower ends of the combustion chambers and communicating with the lower ends of the vertical air ducts, and a recuperator located beneath said horizontal flues, and comprising a plurality of vertical ducts, each relatively high and narrow in cross section, a plurality of alternate ducts of said recuperator crosswise of the axis of the oven being connected to said



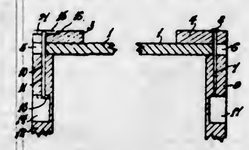
horizontal air duct and the remaining ducts of said recuperator being connected to said horizontal waste gas flue.

1,384,150. SECURING DEVICE FOR DEMOUNTABLE WHEELS. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed June 27, 1919. Serial No. 307,141. 7 Claims. (Cl. 301—9.)



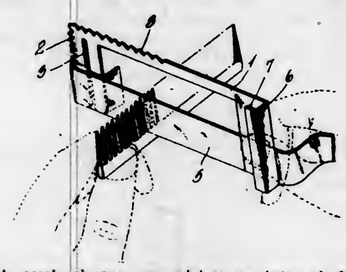
7. In a wheel, the combination with a hub having an outwardly extending annular flange of a wheel body mounted upon said hub and abutting against said flange, said flange and wheel body having registering tapering apertures, a tapering sleeve engaging in said apertures, a supporting element for said sleeve extending freely therethrough and a spring coiled upon the last named element within said sleeve, and pressing the latter into said apertures.

1,384,151. FASTENER FOR LIDS OF CASES. RICHARD HENRY ROBERTS, Henderson, and PERCY NICHOL KINGSWELL, Epsom, Auckland, New Zealand. Filed Jan. 4, 1919. Serial No. 269,678. 3 Claims. (Cl. 217—56.)



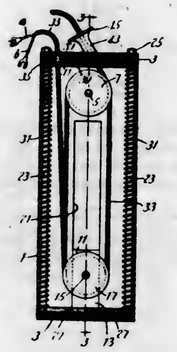
1. A fastener for lids of cases, comprising a headed nail, projecting from one end of a case and engaged by a notch made in one end of a lid, and a pin turnable in the other end of the case and having a right angled member which is engaged by a notch in the other end of the lid and when the pin is turnable toward the locked position bears down upon the lid with increasing pressure as it is further turned toward the locked position.

1,384,152. COMB-CLEANER. MATTHEW J. ROONEY, Bloomfield, N. J. Filed Jan. 21, 1921. Serial No. 438,897. 4 Claims. (Cl. 132—27.)



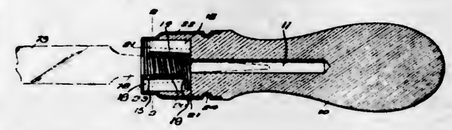
4. A comb cleaner comprising an integral frame, a toothed gripping portion at one end of said frame, said gripping portion being provided with a slot parallel with and adjacent thereto, the ends of said slot being flared to more readily receive the cleaning medium, and an angularly disposed handle portion at the opposite end of said frame.

1,384,153. TELEPHONE-CORD-TAKE-UP DEVICE. DELMAR G. ROOS, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Jan. 12, 1916. Serial No. 71,783. 3 Claims. (Cl. 267—70.)



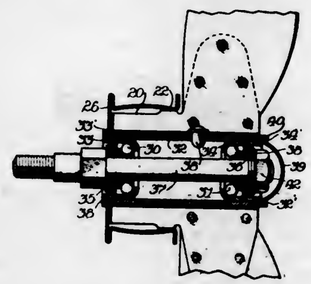
1. A device for automatically withdrawing and compactly storing the slack of a telephone cord having a free end comprising a casing comprising sides, one or more pulleys mounted adjacent an end of said casing, a pulley block engaging the sides of said casing and arranged to slide thereon, a telephone cord trained over the pulleys and springs to space said block from the other pulleys.

1,384,154. TOOL-HANDLE. HEYMAN ROSENBERG, New York, N. Y. Filed Dec. 15, 1919. Serial No. 344,770. 8 Claims. (Cl. 279—99.)



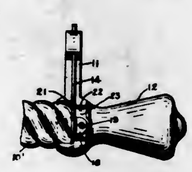
1. A handle for tools provided with an elastic thread cutting element formed of coiled wire and adapted to receive and cut threads in the end of a tool.

1,384,155. FAN. RAGNAR A. ROSSOE, Chicago, Ill., assignor to U. S. Products Corporation, Chicago, Ill., a Corporation of Illinois. Filed Jan. 2, 1918. Serial No. 209,857. 13 Claims. (Cl. 170—173.)



1. In a fan, a plurality of sections, each comprising a segmental hub portion lying in a substantially circumferential plane, an integral blade portion lying in a radial plane, an attaching portion, the attaching portions of the sections being connected to the respective blade portions of adjacent sections.

1,384,156. CASKET-HANDLE. EDWARD R. SARGENT, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed May 14, 1920. Serial No. 381,319. 12 Claims. (Cl. 16—103.)



4. In a casket handle, a handle bar, a supporting arm therefor, a brace for said arm provided with an opening for the reception of said bar, and means on said brace adapting it for use in reversed positions with the arm at either end of said bar.

1,384,157. STOVE OR RANGE. FRED J. SASS, Peoria, Ill., assignor to Culter & Proctor Stove Co., Peoria, Ill., a Corporation of Illinois. Filed Sept. 7, 1918. Serial No. 253,072. 7 Claims. (Cl. 126—19.)



1. An oven including an outer casing and an inner receptacle having walled rear ends in juxtaposition, open front ends, and spaced relatively to each other to provide a flue surrounding the sides and top and bottom of said receptacle, the walls constituting the inner receptacle and outer casing, at the front of the oven, being formed respectively, with flanges bent toward each other, an approximately flat rectangular plate spanning the open end of said flue and closing the same and connected to the flanges of said inner receptacle and outer casing, a thimble connected to said plate and surrounding the opening leading into the inner receptacle, and a hinged door to close said opening.

1,384,158. PISTON-RING. MICHAEL B. SETTER, Chicago, Ill. Filed Aug. 30, 1918. Serial No. 252,066. 3 Claims. (Cl. 74—109.)



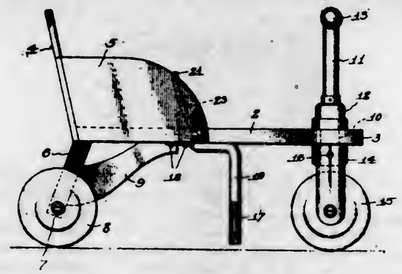
1. The combination, in a piston ring of inner and outer end portions which are curved at their respective ends (3 and 13) and which are shaped to overlap one upon the other, so that two lap joints are formed in planes at an angle to each other, with one lap joint substantially longer than the other, the shorter lap joint being disposed in a plane between the two flat sides of the ring and terminating in a butt joint between the two curved ends (3 and 13), and an inwardly projecting portion (18) which is rigid with said outer end portion and which projects inwardly beyond the inner surface of said outer end portion.

1,384,159. COCK. ABRAHAM W. SCHENKER, Brooklyn, N. Y. Filed Nov. 3, 1920. Serial No. 421,524. 5 Claims. (Cl. 251—152.)



1. In a device of the character described, a rotary plug, a casing in which the plug rotates, a washer secured to the plug and provided with a stop on its inner face extending parallel to the axis of the plug and fixed shoulders on the inner side of the casing for coöperating with the said stop.

1,384,160. CHILD'S CART. FRANCIS J. SCHROEDER, Detroit, Mich. Filed Nov. 3, 1919. Serial No. 335,350. 1 Claim. (Cl. 208—165.)



In a child's three wheel cart having a seat board, two wheels at the rear end thereof, and a steering wheel at the forward end of said board; an axle member for the two rear wheels said member being disposed at an angle so as to maintain the two rear wheels in a plane behind the plane of the rear edge of the seat board to prevent rearward tilting thereof by a child on the seat board, and angular legs having flattened ends secured to the lower face of the seat board at the side edges and forward end thereof and having lower ends well outside of the planes of travel by the rear wheels to prevent side tilting of the cart.

1,384,161. LARDING-NEEDLE. BABETTE SCHWINZER, Harrison, N. J. Filed Nov. 5, 1920. Serial No. 421,998. 5 Claims. (Cl. 99—2.)

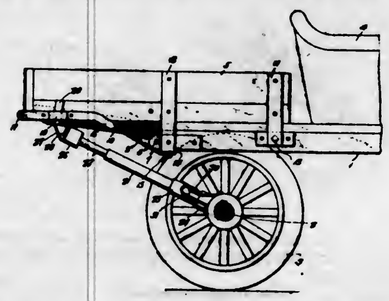


1. A larding needle comprising a bar tapered to a point at one end, a fixed integral jaw at the other, a complemental jaw pivoted to said bar, and teeth in both of said jaws, said jaws when in contact constituting a head.

1,384,162. DETACHABLE TRUCK-BODY FOR AUTOMOBILES. JOHN KNOX SHANNON, Marshall, Mo. Filed Feb. 14, 1920. Serial No. 358,695. 8 Claims. (Cl. 296—37.)

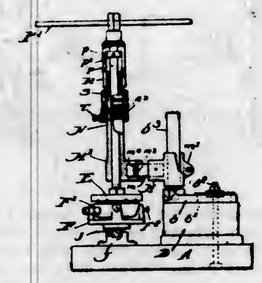
1. A detachable truck body comprising a box body, means for detachably connecting said body to the frame of a motor vehicle with the box body extending beyond the frame, a bottom having a section closing the rear end of the box body, means for hinging the front end of the section to the frame, resilient supports arranged between

the rear end of the section and the rear axle housing, means for guiding the section at its rear end with respect to the box body in its vertical movement, said means



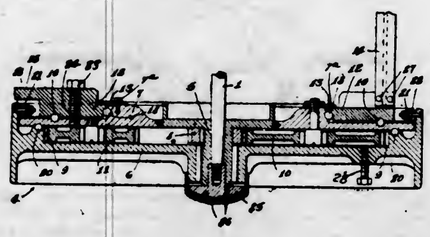
comprising arms on the section extending upwardly alongside the body, and keepers on the body with which the arms engage.

1,384,163. MACHINE FOR DRESSING FITTED BEARINGS AND THE LIKE. FRANK L. SMITH and CHARLES R. HAWKINS, Chicago, Ill. Filed Nov. 13, 1919. Serial No. 337,849. 13 Claims. (Cl. 90—16.)



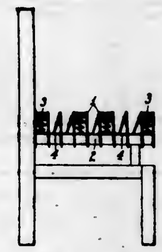
1. In a machine for the purpose indicated, a tool-carrying member comprising a base standard of which the two parts are relatively adjustable longitudinally, and a clamping bolt for securing them in their relative adjustment; said bolt extending vertically through both members and serving to secure the base standard bodily to the work or its support.

1,384,164. TRACTOR ATTACHMENT FOR MOTOR-VEHICLES. LEO ALMONT SPRAGUE, Henderson, N. Y. Filed Dec. 17, 1917. Serial No. 207,590. 8 Claims. (Cl. 74—7.)



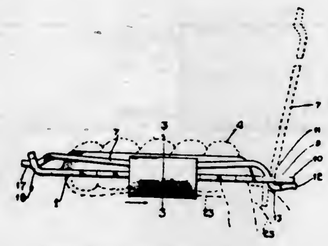
1. In a tractor wheel unit of the class described, the combination of a hub, a driving gear mounted thereon, a wheel loosely mounted on the hub and formed with an internal annular gear opposed to the driving gear, a gear carrier concentric with the hub, and trains of gears mounted on the carrier and including gears meshing with the driving gear and other gears meshing with the internal gear at points spaced apart, the trains having gears in common, substantially as and for the purpose described.

1,384,165. ARM-FORM FOR FURNITURE. GEORGE STACKHOUSE, Berkeley, Calif., assignor to Pacific Spring Bed Co., Berkeley, Calif., a Corporation of California. Filed July 19, 1920. Serial No. 397,447. 2 Claims. (Cl. 155—198.)



1. The combination with a rigid arm member, of a spirally formed form surrounding said member, and a plurality of springs spaced between the arm member and the form.

1,384,166. HAIR-WAVER. BERNARD A. STERLING, Chicago, Ill. Filed Oct. 20, 1919. Serial No. 331,944. 11 Claims. (Cl. 132—41.)

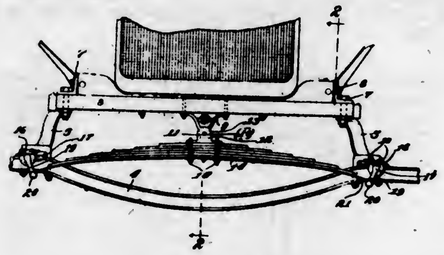


1. In a hair waver adapted for waving hair on the head of the user, comprising a flat base bar, a longitudinally extending thin central rib on its upper face, a longitudinally slotted member hinged at one end to the base member and adapted to straddle the rib, means for securing the free end of the slotted member to the free end of the base member, and a split clamping member adapted to surround the base and the side bars of the slotted member and hold the two members tightly clamped upon the strand of hair to be waved.

1,384,167. SPRING SUSPENSION FOR AUTOMOBILES. JOSEPH SUNNEN, Mexico, Mo. Filed Jan. 26, 1920. Serial No. 353,914. 2 Claims. (Cl. 261—44.)

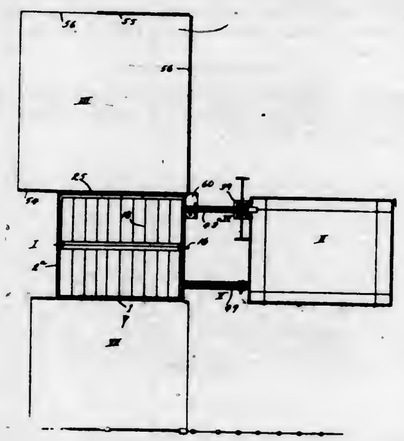
1. An auxiliary spring for motor vehicles comprising in combination with the chassis and front axle thereof, of a semi-elliptical spring, U-shaped members carried by the axle, U-shaped members swivelly mounted therein, a semi-elliptic spring having its ends secured within the second U-shaped members and carried thereby, a tube carried by the

chassis, a bracket carried by said tube, a second bracket swivelly secured to the last mentioned bracket and adapted



to hold and support said spring, said spring being so arranged as to allow tilting and impart the road shock to both ends.

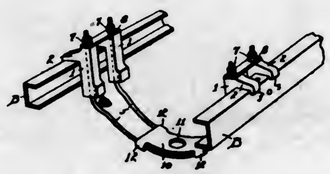
1,384,168. DISMOUNTABLE AND PORTABLE PLANT FOR DIPPING SHEEP AND THE LIKE. CARLOS BERNARDO SVENSEN, Buenos Aires, Argentina. Filed Dec. 3, 1919. Serial No. 342,245. 8 Claims. (Cl. 119—158.)



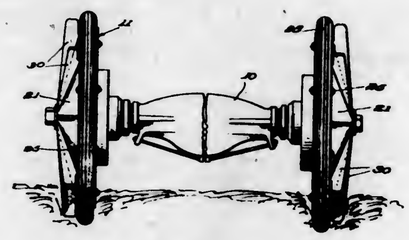
1. A portable and dismountable animal dipping plant comprising in combination, a dipping pen having a floor, side walls hinged to the floor, front and rear doors hinged to the floor; clamping means on the side walls and end doors coöperating to hold the same together to form a tank; means for rendering the tank watertight; a false door adjacent the rear door; folding grates at the top of the tank to confine the animals within the tank; and means for filling the tank with liquid and draining the liquid from the tank.

1,384,169. ENGINE-SUPPORT. JOSEPH C. THEBERATH, Lakewood, Ohio, assignor to Ralph A. Rohrich, Cleveland, Ohio. Filed Mar. 11, 1918. Serial No. 221,634. 7 Claims. (Cl. 180—64.)

4. An automobile engine support comprising a pair of suspension members arranged to pass beneath the engine, means connecting the corresponding ends of the pair of members together in spaced relation to each other and to the adjacent side member of the automobile frame, and a saddle sustained by the suspension members and having parts coöperating therewith to maintain the central portions of said members closer together than their corresponding ends.

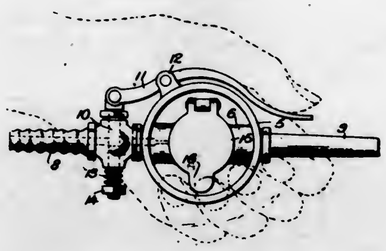


1,384,170. TRACTION-WHEEL. JOHN G. VINCENT, Tulsa, Okla. Filed Nov. 14, 1919. Serial No. 337,044. 6 Claims. (Cl. 301—38.)



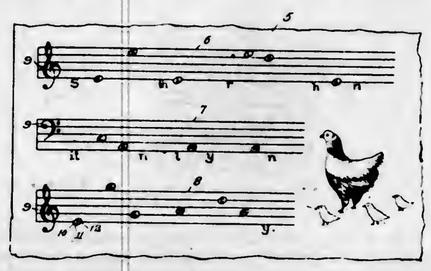
4. The combination with a wheel having a tire, of a conical body plate arranged at one side of said tire and having an annular attaching flange, and a plurality of radial fins secured to said conical body plate and terminating inwardly of the tread of said tire, the inner end portions of said radial fins being tapered and terminating adjacent the axis of said conical body plate.

1,384,171. HAND-TORCH. MORRIS VOLKES, Brooklyn, N. Y. Filed Apr. 12, 1920. Serial No. 373,161. 2 Claims. (Cl. 158—27.4.)



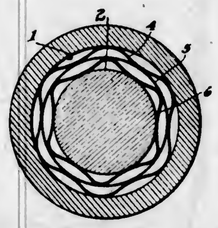
1. In a torch, the combination of a connecting pipe having an inlet and an outlet and an intermediate pocket, a spring actuated cover to the pocket and adapted to remain normally open, and a spring pressed control valve adapted to close the inlet pipe; both cover and valve adapted to be operated singly or simultaneously by the hand that holds the torch.

1,384,172. MUSICAL CHART. BETTIE VON RAGUÉ, Chicago, Ill. Filed Nov. 17, 1920. Serial No. 424,624. 3 Claims. (Cl. 84—471.)



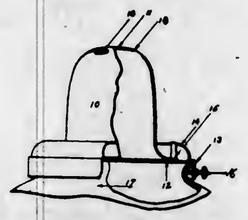
3. A musical chart comprising a staff having portions of a song printed thereon partly in letters, and having perforations in the staff in combination with note-indicating disks fitting in the perforations and having associated letters thereon to complete the song.

1,384,173. FLEXIBLE BUSHING. OSCAR RAGNAR WIKANDER, Pittsburgh, Pa., assignor, by direct and mesne assignments, to S K F Ball Bearing Company, Hartford, Conn., a Corporation of Connecticut. Filed May 10, 1918. Serial No. 233,695. 2 Claims. (Cl. 64—10.)



1. A flexible bushing comprising a plurality of alternately arranged corrugated continuous annular sheet springs and a cylindrical continuous annular sheet spring in direct contact with and separating the corrugated springs, all concentrically arranged and with the crests of the outermost corrugated annular sheet forming the outside contacting diameter and those of the innermost corrugated annular sheet forming the inside contacting diameter of said bushing.

1,384,174. HOLDER FOR LIGHTING-FIXTURES. HORACE R. YARDLEY, Chicago, Ill., assignor to R. Williamson & Co., a Corporation of Illinois. Filed Aug. 21, 1919. Serial No. 318,844. 2 Claims. (Cl. 240—111.)



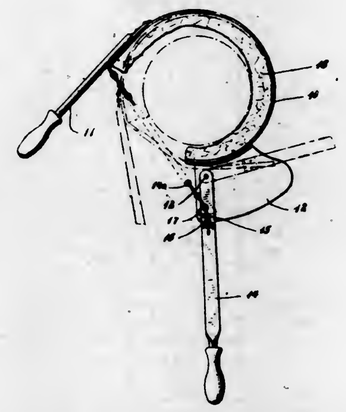
1. A holder for lighting fixtures comprising a cap flared at its lower extremity a ring, means to secure said cap and ring in spaced relation, and a globe secured in spaced relation to said cap and ring to provide a continuous ventilating space between the inner periphery of the upper opening in the globe and the base of the holder, and a continuous ventilating space between the inner surface of the ring and the outer surface of the lower part of the cap.

1,384,175. TWIN GATE FOR HOPPERS. FRANK B. ALLEN, Ben Avon, and MAX C. SHERMAN, Philadelphia, Pa., assignors to Baker-Dunbar-Allen Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 7, 1919. Serial No. 309,231. 4 Claims. (Cl. 193—45.)



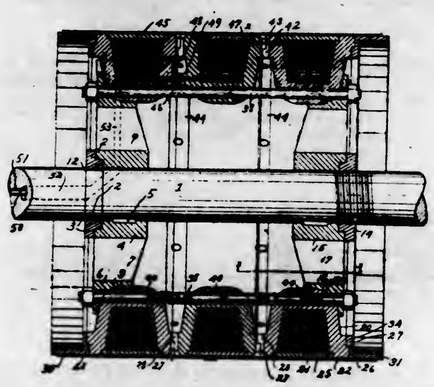
1. Apparatus of the character described, in combination with a pair of adjacent hoppers having bottom discharge openings, of horizontal ways at opposite sides of said discharge openings, track members connecting the horizontal ways of the two hoppers, a horizontally movable gate for each of said hoppers supported on said ways, and means for moving said gates in opposite directions, whereby each of said gates in opening moves onto said connecting track members.

1,384,176. JAR-HOLDER. CHARLES A. BARTLETT and LYMAN H. EASTMAN, Campbell, Nebr.; said Eastman assignor of his right to Henry Erickson, Campbell, Nebr. Filed Aug. 11, 1919. Serial No. 316,826. 1 Claim. (Cl. 81—3.2.)



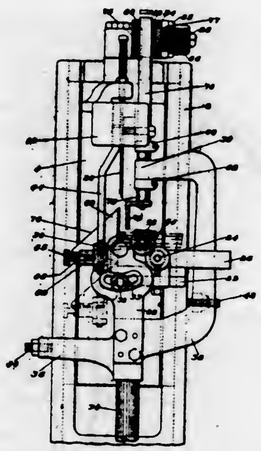
A jar holder of the class described comprising a resilient metal gripping band, a rigid handle secured to and projecting from one end thereof, a plate secured to and projecting laterally from the opposite end of said band, a locking lever, pivotally secured to said plate, an adjusting element secured to one end of said band, a lug extending laterally from the lever and said lug having a slot formed therein to receive said adjusting element, and a stop carried by said plate to engage one edge of said lever.

1,384,177. MAGNETIC PULLEY. JOHN P. BETHEA, Milwaukee, Wis., assignor to Magnetic Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 23, 1918. Serial No. 251,104. 13 Claims. (Cl. 88—71.)



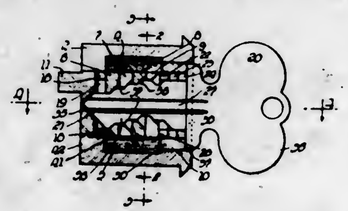
1. A magnetic pulley comprising a hollow magnetic spool having an open end and peripheral perforations, and an exciting coil wound upon said spool.

1,384,178. HEEL-BREASTING MACHINE. LOUIS A. CASGRAIN, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 8, 1917. Serial No. 147,478. 15 Claims. (Cl. 12—47.)



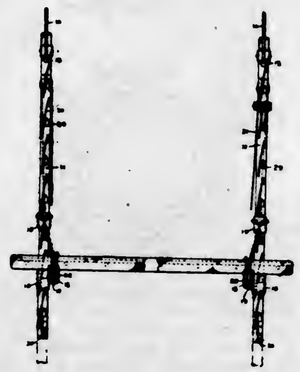
1. In a machine for breasting unattached heels, the combination of a vertically reciprocating knife, a cutting block, a gage arranged for vertical movement across one end of the block into a position where its top is above the heel when the heel is fed and for movement out of gaging position relatively to a heel on the block when the breasting is completed, and means for operating the gage to maintain the vertical distance between the top of the gage and the knife edge constantly less than the height of a normal heel.

1,384,179. LOCK. EDWARD A. CHRISTOPH, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,579. 16 Claims. (Cl. 70—46.)



1. In a lock, a stationary element, a rotatable element, a pair of diametrically opposite grooves in said stationary element, a plurality of tumblers carried by said rotatable element, means normally projecting said tumblers into cooperation with said grooves to bar said rotatable element against rotation, and means for limiting the projection of said tumblers, said means comprising a spring arranged longitudinally through said tumblers.

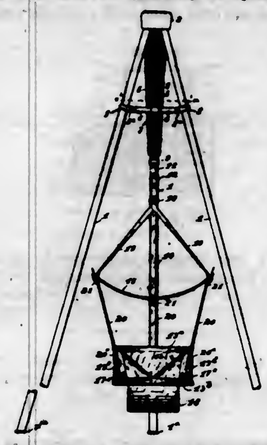
1,384,180. SHIFTING STAGE. CHARLES W. CLODFELTER, Fall River, Mass. Filed June 29, 1920. Serial No. 392,800. 2 Claims. (Cl. 304—15.)



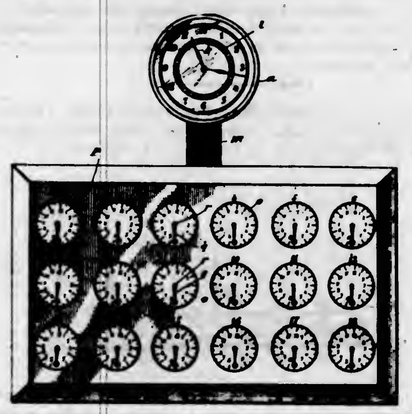
1. In a shifting stage, the combination with a main supporting member provided with means adapted to secure the same to a building, of platform supporting means slidably mounted upon said supporting member, a socket in said supporting member, a pawl on said sliding means adapted to engage with said socket, and means on said supporting member adapted to guide said pawl away from said socket when said sliding means is lowered.

1,384,181. BABY-JUMPER. GEORGE B. CONLEY, Cleveland, Ohio. Filed Oct. 22, 1919. Serial No. 332,487. 3 Claims. (Cl. 155—20.)

2. In a baby-jumper, a sling comprising a flexible fabric body-encircling member, said member being provided with an upper and a lower hem, and having flaps for opening and closing the front of said body member, said flaps being formed by slitting the member vertically, shaping members confined in the hems, a crotch seat member attached to and depending from the lower shaping member, an overhead spreader frame, open in front, and having buckles attached thereto, straps connected with the upper shaping member of the body element and adjustably connected with said buckles, suspension members connecting the overhead frame with a hanger ring provided, a secondary hanger ring located above the first named ring, an adjustable strap connecting the upper and lower rings, a supporting tripod, and a plurality of spiral springs attached to and depending from the head of said tripod, the lower terminals of said springs being connected with the upper hanger ring.

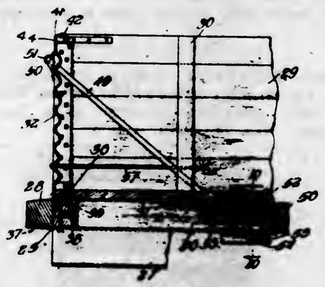


1,384,182. ROOM-CALLING SYSTEM FOR HOTELS. ORESTE CONTI, Viareggio, Italy. Filed Jan. 20, 1920. Serial No. 352,883. 1 Claim. (Cl. 161—2.)



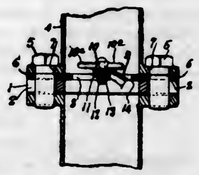
In a call system, the combination of a series of electric bells, a master clock having an hour hand, a series of contacts on the clock adapted to be successively engaged by the hour hand, a control board, a plurality of sets of stationary contacts on the control board, means connecting each contact on the clock with a corresponding contact in each of the sets of contacts on the control board, manually shiftable circuit-closers on the control board each associated with one of said sets of stationary contacts and movable into engagement with either contact of the set, means connecting one terminal of each bell with the same terminal of the battery, independent electrical connections between the other terminals of the bells and the manually shiftable circuit-closers, and means controlled by the master clock for intermittently electrically connecting the other battery terminal and the hour hand of the clock during the engagement of the hour hand with each of the contacts on the clock.

1,384,183. RAILWAY-CAR OF THE GONDOLA TYPE. SAMUEL H. CONWELL and CLARENCE W. COURT, Chicago, Ill., assignors to Walter P. Murphy, New York, N. Y. Filed Feb. 15, 1919. Serial No. 277,265. 15 Claims. (Cl. 105—406.)



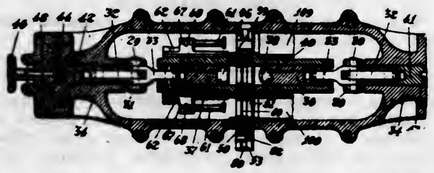
5. In a railway car of the gondola type, the combination with the underframe and side walls of the car, of a sheet metal end panel formed with rigidifying corrugations and with an angularly disposed flange at its upper edge, means for attaching said panel to the side walls and underframe of the car, and a top chord member angular in cross-section attached to said side walls and to the flange at the upper edge of the panel.

1,384,184. GAS-MIXER FOR INTERNAL-COMBUSTION ENGINES. HARRY N. EASTMAN, Dayton, Ohio, assignor of one-third to Thomas F. McDonald and one-third to Arthur A. McDonald, Dayton, Ohio, and one-third to Carrie J. Eastman, Portsmouth, Ohio. Filed July 3, 1919. Serial No. 308,565. 4 Claims. (Cl. 48—180.)



1. In combination with the intake manifold of an internal combustion engine, an auxiliary fuel mixer supported in said manifold consisting of an apertured frame arranged transversely in said manifold and having a bridge diamond shaped in cross section and inclined to an apex and integral with the diaphragm and spanning said aperture, and a propeller mounted on said bridge and having the cutting edges of its blades in advance of the center line of their axis.

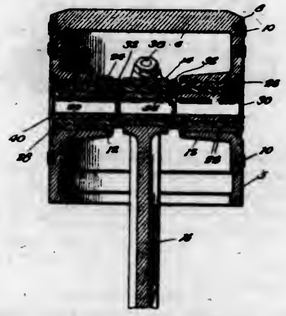
1,384,185. COMPRESSING-MACHINE. EDWARD ERICKSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 16, 1919. Serial No. 304,641. 15 Claims. (Cl. 12—48.)



1. In a compressing machine, the combination of means for exerting pressure horizontally upon a blank, a hori-

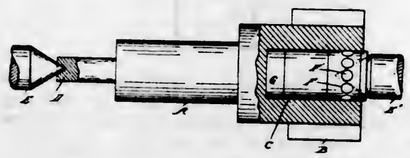
zontally movable ejector for ejecting a compressed blank, a mold block having a plurality of blank containing molds, means for reciprocating the mold block to present one mold to the action of the pressure means and another mold to the ejector, and means for simultaneously actuating the pressure means and ejector to discharge a compressed blank while another blank is being compressed.

1,384,186. WRIST-PIN. JOHN H. FULLINGTON, Huntsville, Ala., assignor of one-half to Isadore Wind, Huntsville, Ala. Filed June 12, 1920. Serial No. 388,557. 5 Claims. (Cl. 74—108.)



1. The combination with a piston having bosses, of a wrist pin fitted through said bosses and inclusive of inner and outer interfitting sections, and means for adjustably connecting said sections, and constituting a stop element for a rod adapted for connection with the pin.

1,384,187. CENTER-BEARING. ANDREW A. GAGARIN, Detroit, Mich., assignor to The Gear Grinding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 6, 1919. Serial No. 336,207. 8 Claims. (Cl. 82—44.)



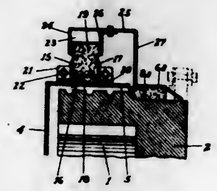
1. The combination with a supporting center, of an anti-friction bearing therefor, the rolling members of which are adapted to contact with the work to hold the same in co-axial relation to said center.

1,384,188. CELLULOSE-ACETATE SOLUTION. GUSTAV W. GOEBNER, Boston, Mass., assignor to The Roessler and Hasslacher Chemical Company, Perth Amboy, N. J., a Corporation of New York. Filed June 9, 1920. Serial No. 387,677. 6 Claims. (Cl. 134—79.)

2. A solution of a cellulose ester of a monobasic fatty acid in methylene chlorid.

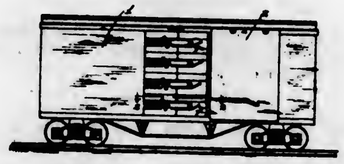
1,384,189. BULL-GEAR DUST-SHIELD FOR TRACTORS. JAY L. GOODWIN, Stockton, Calif., assignor of one-half to William Thomas, Stockton, Calif. Filed Sept. 15, 1920. Serial No. 410,355. 6 Claims. (Cl. 74—7.)

4. A dust shield for tractor-bull gears comprising in combination with a stationary hood projecting partly over the gear and spaced from the outer periphery thereof, a hood fixed to the gear beyond the first named hood, and projecting thereover, a channel formed with the outer hood concentric with the inner hood and open theretoward,



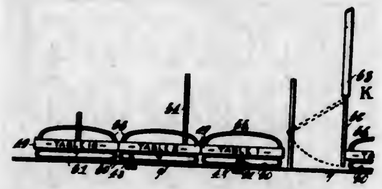
and a packing ring clamped about the inner hood and projecting into the channel, and spaced from the outer face thereof, whereby a lubricant may be introduced therebetween.

1,384,190. COLLAPSIBLE GRAIN-DOOR. BENJAMIN F. GRAHAM, Chicago, Ill. Filed July 19, 1920. Serial No. 397,375. 5 Claims. (Cl. 20—30.)



2. A collapsible grain door having an abutment at each end, one of said abutments comprising a longitudinally adjustable screw member, and an adjustable support for said member.

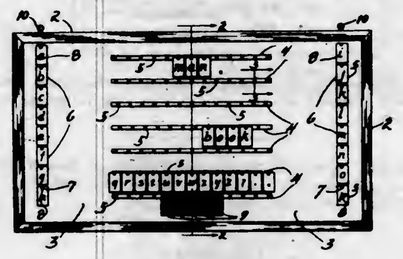
1,384,191. DINING-SERVICE APPARATUS. HARRY STEUBEN GREENBERG, Danville, Va. Filed Mar. 25, 1921. Serial No. 455,415. 5 Claims. (Cl. 186—1.)



1. In apparatus of the class described wherein are provided a dining room and a kitchen, a table in the dining room and conveyers for bringing the trays of food from the kitchen to the table, of stop devices on the table and trays for engaging one another to arrest the travel of a tray at the particular station where the tray is intended to be delivered.

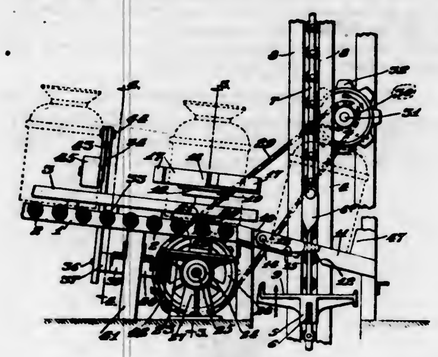
1,384,192. PRIMARY-INSTRUCTION BOARD. CHRISTIAN F. HEINE, Hinckley, Ill. Filed Jan. 3, 1920. Serial No. 349,236. 7 Claims. (Cl. 35—9.)

6. In a display device, a board, a series of horizontal strips on said board, screw-hooks each passing through said strips into said board, and each having a shank projecting from its strip, the hooks on any one strip being equally spaced along said strip, a series of equal rectangular plaques each bearing indicia, the thickness of each plaque being less than half the length of one of said shanks, the width of each plaque being slightly less than the distance between the neighboring hooks, each plaque having a hole near the middle of one end of suitable size to pass onto said hooks, the length of each plaque being slightly less than the distance between two strips, an additional series of hooks on said board nearer the edge of the board than the hooks on said strips, certain of said plaques being hung on each of said



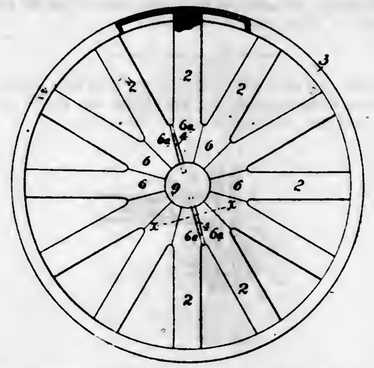
last-named hooks, all the plaques on any one of said last-named hooks having the same letter thereon, and the letters being in alphabetical order along said last-named series of hooks, and an extra series of hooks having plaques thereon, the letters on said extra hooks being all vowels, all the plaques on any one of said extra hooks being alike and the letters being in the alphabetical order of the vowels along said extra series of hooks.

1,384,193. FEEDING MECHANISM FOR CONVEYERS. GEORGE N. HINCHMAN, Webster Groves, Mo., assignor to Alvey Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 28, 1919. Serial No. 293,173. 5 Claims. (Cl. 193—8.)



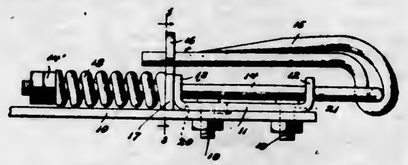
1. In a package conveyer, a vertically traveling conveyer having carriers thereon, a stationary way communicating therewith, a pair of oppositely disposed rotating feeders located one on each side of said way near the discharge end thereof and operating in timed relation to the carriers of said traveling conveyer, and a pair of oppositely disposed stops located one on each side of said way adjacent to said feeders and operatively connected therewith to be actuated thereby crosswise of said way, said pair of stops operating in timed relation to said pair of feeders and adapted to be moved toward each other into the path of the line of packages on said way prior to their engagement by said feeders, said pair of stops being adapted to be moved away from each other out of the line of packages on said way to permit a package to be engaged by said pair of feeders while said feeders are delivering a package to said traveling conveyer.

1,384,194. WHEEL. RUSSELL HOOPES, West Chester, Pa. Filed Apr. 2, 1920. Serial No. 370,635. 6 Claims. (Cl. 301—85.)



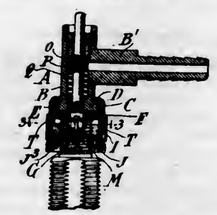
1. A wheel comprising a rim, a plurality of spokes fitted thereto and having tapered hub ends adapted to form an annular hub portion, and a tightening key interposed between two of the tapered spoke ends and driven radially between them, said key being tapered both longitudinally and transversely whereby it may be inserted sidewise between the hub ends of the spokes and then driven radially between them.

1,384,195. AUTOMATICALLY-RELEASING COUPLING. ALBERT B. HULSEBOS and GERRIT DEN BESTEN, Corsica, S. D., assignors to Safety Release Clevis Company, Corsica, S. D., a Partnership consisting of Albert A. Hulsebos, Gerrit Den Besten, Henry Ketel, and H. N. Waite. Filed Apr. 2, 1920. Serial No. 370,697. 4 Claims. (Cl. 213—67.)



1. In a device of the class described, a member adapted to be secured to a vehicle or implement, a draft bolt, said member having two spaced bearings slidably carrying said bolt, a coiled spring operative at one end on said bolt and at the other on said member for resisting forward movement of the draft bolt, an arm pivoted to the forward end of the draft bolt, and a keeper for the arm held against displacement by said bolt and spring, substantially as set forth.

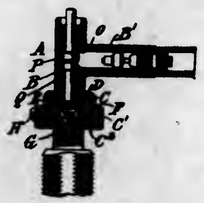
1,384,196. PUMP-COUPLING OR THE LIKE. HENRY P. KRAFT, Ridgewood, N. J. Filed June 26, 1917. Serial No. 177,005. 18 Claims. (Cl. 284—17.)



1. A coupling or the like having a body portion with a passage therein, the body portion being provided with

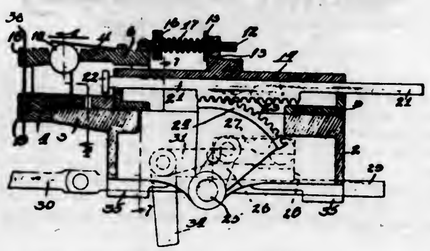
a coupling end adapted to receive a member such as the end of a tire valve, a detachable nut non-rotatively connected within said coupling end, and means movable independently of said coupling end and acting to retain the nut in fixed relation therewith.

1,384,197. PUMP-COUPLING OR THE LIKE. HENRY P. KRAFT, Ridgewood, N. J. Filed June 30, 1917. Serial No. 178,027. 3 Claims. (Cl. 285—124.)



1. A coupling comprising a body and a member adapted to engage a valve or the like swiveled to said body, a packing washer between said body and swiveled member; said swiveled member being made in two separable parts, which when connected overlies said washer and retains it in place, and which when separated permit the removal and replacement of said washer, and one of said parts being screw-threaded to engage a tire valve and having a manipulating part or surface thereon, adapted to be grasped in connecting and disconnecting the coupling, and means for normally preventing the separation of the parts of the swiveled member.

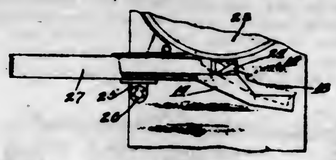
1,384,198. FEEDING AND FORMING MECHANISM FOR WRAPPING-MACHINES. CHARLES J. LIETZ, Newark, N. J., assignor to Ideal Wrapping Machine Company, a Corporation of New York. Original application filed Mar. 17, 1917, Serial No. 155,420. Divided and this application filed Feb. 13, 1920. Serial No. 358,479. 8 Claims. (Cl. 93—2.)



1. The combination with a wrapping machine, of a forming box for articles passed therethrough and resilient mechanism forming a part of said forming box to bear yieldably upon the article.

1,384,199. RECEIVING AND TRANSFER MECHANISM FOR WRAPPING-MACHINES. CHARLES J. LIETZ, Newark, N. J., assignor to Ideal Wrapping Machine Company, a Corporation of New York. Original application filed Mar. 17, 1917, Serial No. 155,420. Divided and this application filed Feb. 13, 1920. Serial No. 358,480. 12 Claims. (Cl. 93—2.)

8. In a wrapping machine the combination with the wrapping wheel of yieldably mounted receiving means in contact therewith and movable therefrom by discharge of an article thereto, a receiving chute, resilient means therein on which the articles are supported, and coacting devices between said resilient means and said receiving



means whereby the former is moved by the latter prior to the transfer of an article from the latter to the former.

1,384,200. ENGINE. HAROLD M. LOCHRANE, Fort Wayne, Ind. Filed May 23, 1919. Serial No. 299,350. 2 Claims. (Cl. 74—108.)



1. The combination with a piston having a ball socket within it, a crank box, a wrist pin mounted on the crank box, a connecting rod pivotally mounted at one end upon the wrist pin, a ball at the opposite end of the rod engaging the ball socket, a socketed nut removably engaging the ball socket and also engaging the ball, and a lock washer engaging the inner wall of the piston and adjustably secured to the socketed nut.

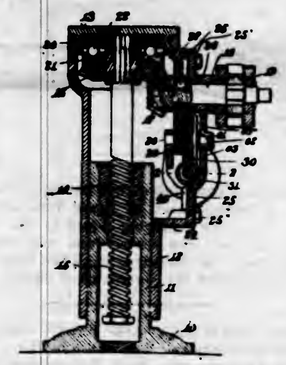
1,384,201. SCREWDRIVER AND THE LIKE. WALTER E. LOMBARD, Arlington, Mass. Filed July 1, 1920. Serial No. 393,464. 23 Claims. (Cl. 145—50.)



23. In a hand tool of the class described, a cylindrical member having a rectangular socket in one end and a longitudinal slot extending transversely of the inner end of said socket; two tool-supporting jaws partially disposed within said socket; a pin for pivoting both jaws to said member; a threaded collar on said member and

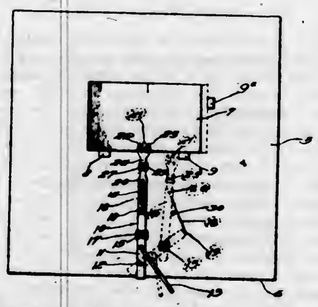
slidable lengthwise thereof; a pin in said collar extending through oppositely inclined slots in the inner ends of said jaws and said longitudinal slot; a handle to which said member is secured; and a revoluble nut coacting with said collar and adapted in its rotation to impart end movement thereto.

1,384,202. GOVERNOR MECHANISM FOR LIFTING-JACKS. WALTER E. LOMBARD, Arlington, Mass., assignor to A. O. Norton, Inc., Boston, Mass., a Corporation of Maine. Filed Aug. 2, 1920. Serial No. 400,824. 9 Claims. (Cl. 188—184.)



1. The combination with a lifting jack having a driving shaft adapted to be rotated in either direction; a disk revoluble therewith; a worm gear loosely mounted on said driving shaft; a ratchet revoluble with said gear; pawls on said disk coacting with said ratchet; a worm adapted to be driven in one direction only by said worm gear; and a governor actuated by said worm.

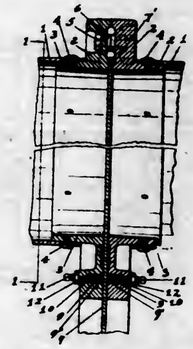
1,384,203. PRINTING-PRESS ATTACHMENT. AUGUST LUNDQUIST, Chicago, Ill. Filed Dec. 9, 1920. Serial No. 429,350. 3 Claims. (Cl. 101—414.)



2. An attachment for printing presses comprising in combination a pair of fingers, a pivotal connection between said fingers permitting one of the fingers to be adjusted with respect to the other finger while maintaining the pivotal relationship, a spring connection between the fingers tending to maintain them in alinement, and suitable prongs on the free end of the swinging finger, substantially as described.

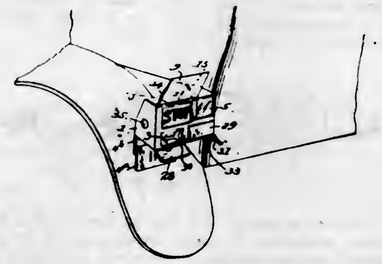
1,384,204. BLAST-GATE. FRANCIS MCMURDIE, Kalamazoo, Mich. Filed Apr. 6, 1920. Serial No. 371,659. 2 Claims. (Cl. 251—51.)

2. In a blast gate structure, a frame with guide for the slide with entrance throat therefor, packing means for said slide comprising diametrically opposed recesses within said throat, packing material in the recesses, and bars



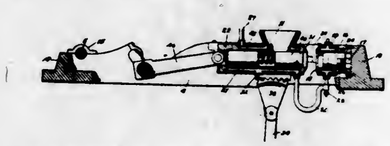
back of the material with means of compressing the same, as specified.

1,384,205. DANGER OR STOP AND DIRECTION SIGNAL. JOSEPH G. MARIS, Detroit, Mich. Filed Feb. 16, 1921. Serial No. 445,382. 1 Claim. (Cl. 116—42.)



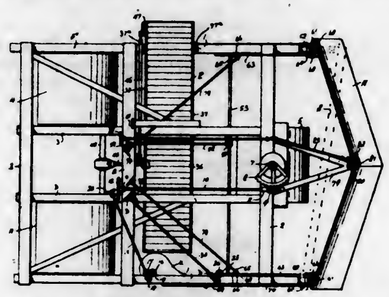
In a direction signal, a housing having an illuminated interior and provided with a transparent rear wall, a portion of said rear wall being surface colored to provide a tail light reflection, a greater portion of the rear wall being surface colored darker than the first colored portion, said rear wall having white colored arrows and a danger or stop signal applied thereto, through which the interior illumination of the housing reflects, and spring tension shields normally covering said signals of the rear wall, and means for operating one of said shields individually, or one of said shields and one of the other shields simultaneously.

1,384,206. BRIQUET-MACHINE. SWAN E. MOREN, Biwabik, Minn. Filed Dec. 23, 1920. Serial No. 432,747. 6 Claims. (Cl. 25—56.)



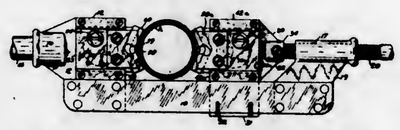
1. In a briquet machine, the combination of a stationary cylinder, a reciprocatory cylinder arranged to abut and form a close joint with the stationary cylinder, a combined compressing jaw and ejector block mounted in the stationary cylinder, a plunger slidably mounted in the reciprocatory cylinder, means for reciprocating the plunger and the said cylinder, and means for heating the walls of the two cylinders.

1,384,207. ROAD-WORKING MACHINE. DAVID C. MOWRY, Geneva, Nebr. Filed Aug. 13, 1919. Serial No. 317,253. 6 Claims. (Cl. 37—48.)



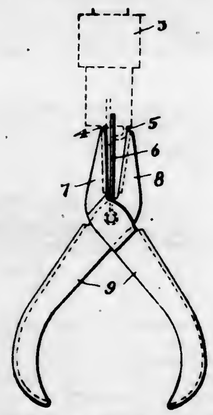
1. A machine of the class described comprising a portable frame, a pair of substantially parallel beams slidably supported by the frame and extending beyond the end thereof, a single means for imparting endwise movement to said beams in unison but in reverse directions one with respect to the other, and a working member supported by the extended portion of the beams.

1,384,208. PIPE-CUTTER. IRA W. NONNEMAN, Warren, Ohio, assignor to The Borden Company, Warren, Ohio, a Corporation of Ohio. Filed Feb. 9, 1920. Serial No. 357,237. 10 Claims. (Cl. 81—191.)



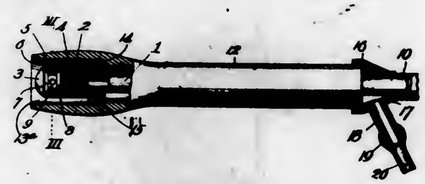
6. In a pipe cutting tool, the combination with a supporting member of a knife carrier, a guide carrier, a notched rocking member carried by the supporting member, and pins carried by the guide carrier and the knife carrier respectively engaging the notches of said rocking member.

1,384,209. SPARK-PLUG-ADJUSTING DEVICE. JOHN O'TOOLE, Los Angeles, Calif. Filed July 3, 1920. Serial No. 393,780. 1 Claim. (Cl. 81—15.)



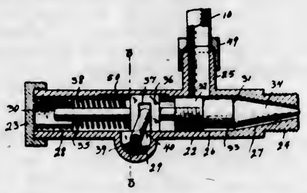
In a device of the class described, in combination with tongs, a spacing member disposed between the jaws of the tongs so as to come between the points of a spark plug when the jaws are placed over such points for forming a proper gap between the points automatically when the tongs are applied to the points, the spacing member having means for cleaning such points and thereby automatically spacing the points properly when the tongs are applied and removed.

1,384,210. SANITARY DOUCHE. WILLIAM A. E. PFAFF, Kansas City, Mo. Filed July 10, 1919. Serial No. 309,865. 3 Claims. (Cl. 128—240.)



1. A douche comprising a tube having a nozzle for discharging a conical sheet of liquid forwardly and outwardly, a hose for supplying liquid to the tube, and a sheath fitting over and spaced from and adapted to receive and direct the discharge from the tube and to also receive and drain off the contaminated liquid.

1,384,211. AUXILIARY-AIR VALVE AND HEATER. DENNIS J. PLEDGER, New Orleans, La., assignor to Pledger Appliance Co., Inc., New Orleans, La., a Corporation of Louisiana. Filed Feb. 5, 1919. Serial No. 275,090. 5 Claims. (Cl. 251—132.)

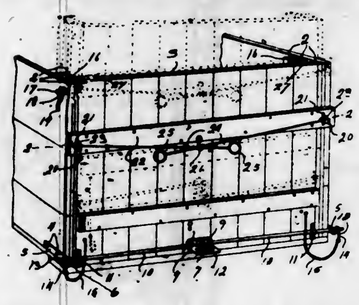


1. The combination with the intake manifold of an internal combustion engine having cylinders and a carbureter connected thereto, of a valve casing discharging into the manifold between the carbureter and the cylinders and having a longitudinally extending bore, the bore having a uniform diameter for a certain distance and then gradually tapering to the discharge end of the bore, the valve casing having an air inlet port inward of the tapered portion of the bore, a valve operating longitudinally of the casing, the valve having a portion of uniform diameter fitting that portion of the casing having a uniform diameter and closing the inlet opening, and the valve having a tapered portion adapted to fit the tapered portion of the bore and to project through the opening at the discharge end of the bore and into the manifold when the valve is closed, the portion of the valve having a uniform diameter normally closing the inlet opening but moving beyond the inlet opening when the valve is fully retracted, and manually operable means for longitudinally shifting the valve to control the amount of air discharged through the bore, the axis of the valve being disposed at right angles to the direction of current in the manifold.

1,384,212. TAIL END-GATE FOR WAGONS. EARL M. PRICE, Percival, Iowa, assignor of one-half to Marion B. Holsclaw, Percival, Iowa. Filed Sept. 18, 1920. Serial No. 411,157. 1 Claim. (Cl. 296—59.)

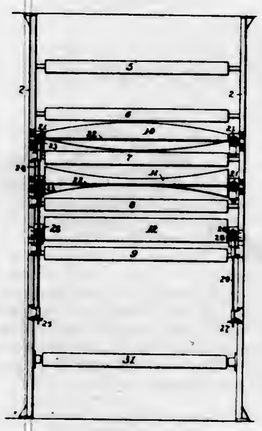
In an end gate construction, a wagon body, parallel spaced guides on the inner faces of the sides of the body

adjacent the end gate opening, an end gate for the end gate opening, cleats permanently fastened to the inner face of the end gate adjacent its side ends, additional cleats slidably engaging said guides, means for detachably connecting the additional cleats to the ends of the end gate adjacent the outer faces of the first cleats, means for pivotally connecting the upper and lower portions of the gate on the additional cleats, so that either the upper or lower end of the gate may be swung open when the



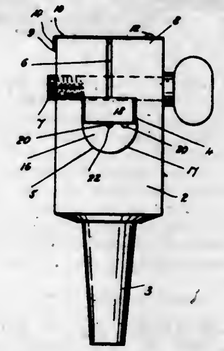
first means are extended, the construction and arrangement of each of the pivotal means being such that by their removal when the first means are returned to folded or retracted positions, the additional cleats may slide vertically on the first cleats and carry the gate therewith, said means for detachably connecting additional cleats to the ends of the gate being extensible through the end gate and located between the upper and lower pivoting means, for limiting the gate in its opening movement, when swung either from the top or the bottom.

1,384,213. METHOD AND MEANS FOR STRAIGHTENING WEFT-THREADS. WILLIAM S. ROWLEY, West New Brighton, N. Y., assignor to H. W. Butterworth & Sons Company, a Corporation of Pennsylvania. Filed June 29, 1920. Serial No. 392,676. 8 Claims. (Cl. 26—2.)



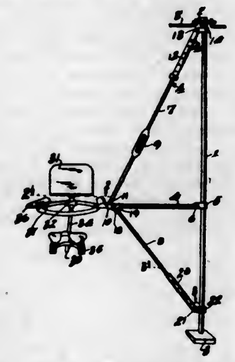
4. In a machine of the character stated, the combination of a plurality of guide rollers for guiding a web of fabric, with means for straightening the weft threads of the fabric comprising a weft thread straightening roll having its largest diameter at the middle and tapering toward its ends and movable against the fabric and between two of the guide rolls, a second weft straightening roll parallel to the first mentioned weft straightening roll and having its smallest diameter adjacent to its middle portion and gradually increasing from the center toward each end and movable against the fabric and between two of the guide rolls, independent means for adjusting the two weft thread straightening rolls, a third weft thread straightening roll of cylindrical form, and means adjusting the ends of said roll independently, whereby said roll is movable against the fabric and between two of the guide rolls and with capacity for applying greater pressure toward one edge of the fabric than the other, and vice versa.

1,384,214. INSULATOR. RICHARD SANDS, Osawatomie, Kans. Filed Sept. 18, 1919. Serial No. 324,344. 1 Claim. (Cl. 173—314.)



In an insulator, a supporting frame provided with a chamber extending horizontally through its middle part and having a rounded bottom, said frame having a slot extending from its top to the said chamber, a lower insulating block having a rounded bottom and fitting in the lower part of the said chamber, a tapering upper insulating block normally slidable in the upper part of the said chamber and adapted to clamp the line wire against the lower block, and a clamping device extending through holes in the upper part of the frame and adapted to clamp its upper portion upon the insulating blocks and lock them in place.

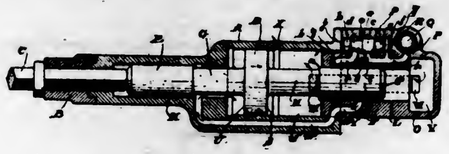
1,384,215. INVALID-EXERCISER AND BABY-WALKER. JAMES H. SCOTT and JOHN D. WHITCOMB, Long Beach, Calif. Filed May 20, 1920. Serial No. 382,728. 3 Claims. (Cl. 155—23.)



1. A device of the character described comprising a rotatable upright, a radially extending supporting arm,

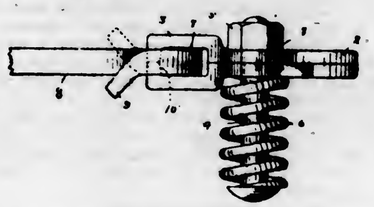
a supporting carrier upon said supporting arm, a yieldable brace between said supporting arm and said rotatable upright, and means for adjusting the length of said yieldable brace.

1,384,216. ROCK-DRILL. WILLIAM A. SMITH, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,354. 4 Claims. (Cl. 121—18.)



1. In a fluid operated rock drill of the hammer type, the combination of a cylinder and reversible piston, means controlled by the piston for supplying motive fluid to the forward end of the cylinder, a forward admission port and another admission port rearward of said forward admission port for supplying motive fluid to the rearward end of the cylinder, and a fluid actuated valve subjected to fluctuating pressure on one operative surface and to constant pressure on an opposed operative surface for controlling communication between forward and rearward admission passages leading to said forward and rearward admission ports.

1,384,217. SLIP-CLEVIS. ALAN B. STARKEY, Duluth, Minn. Filed Mar. 31, 1920. Serial No. 370,062. 2 Claims. (Cl. 24—233.)



1. A device of the character described comprising two like, pivotally attached halves, the ends of said halves, upon one side of the pivotal connection thereof, being hooked at right angles to their pivotal connection, and the opposite ends hooked in parallelism with said connection whereby a rectangular shaped opening is formed intermediate of the last mentioned ends at right angles to the pivotal connection, and a circular opening is formed parallel with said pivotal connection in the opposite ends when the halves are in their coöperatively registering position, a bolt forming said pivotal connection of the halves, an expansive spiral spring intermediate of the head of the bolt and the engaged halves and a hook, rectangular in cross section, coöperatively engaged within the rectangular openings formed by the first mentioned hooks, substantially as and for the purpose described.

1,384,218. PUMP. FREDERICK STICKEL, Chicago, Ill. Filed July 23, 1920. Serial No. 398,404. 4 Claims. (Cl. 230—27.)

1. In a tire pump, a foot plate, a pump cylinder rising from the foot plate, an indicating cylinder also rising from the foot plate and arranged parallel and adjacent to the pump cylinder and shorter in length, a spring held plunger projecting out of the top of the indicating cylinder and adapted to be forced out by the pressure produced in the pump cylinder, a pressure scale on the pump cylinder above the indicating cylinder and adapted to cooperate with the outer end of the plunger to indicate the

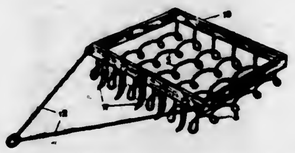


pressure produced by the operation of the pump, and means adapted to freely connect the lower end of the indicating cylinder with a tire.

1,384,219. PROCESS OF TREATING WASTE LIQUOR FROM SULFITE-CELLULOSE FACTORIES. ROBERT WILHELM STREHLENERT, Gottenborg, Sweden, assignor to And. H. Kiaer & Co., Ltd. of Norway, Glemminge, Norway. Filed Feb. 7, 1918. Serial No. 215,907. 8 Claims. (Cl. 252.)

1. The process of treating sulfite liquors to recover organic and inorganic constituents therefrom, which comprises concentrating the said liquors and subjecting the concentrated solution to decomposition by heating under pressure.

1,384,220. TILLING-TOOL. GEORGE SYKES, Warwick, England, assignor to Eagle Engineering Company, Limited, Warwick, England. Filed Mar. 6, 1920. Serial No. 363,824. 3 Claims. (Cl. 97—41.)



1. A tilling tool having in combination a frame, and spirally formed non-rotary members, said members being fixedly secured at each end to said frame, and being adapted to enter the soil and having a substantially horizontal disposition, so that the axis of each of said members is parallel to the soil.

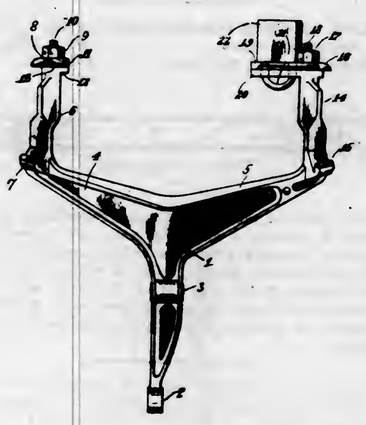
1,384,221. TAPER AND ANGLE GAGE. JOHN M. WALL and CHARLES MELDRUM, Syracuse, N. Y. Filed Apr. 23, 1917. Serial No. 163,949. 11 Claims. (Cl. 33—171.)

1. In a taper gage, the combination of a support having a straight surface, an arm pivoted to said support to swing in a plane at right angles to said surface and provided with a straight edge radial to its pivotal axis and means for adjusting the arm about said axis and for holding it in its adjusted position, said straight edge



having a point therein a known distance from said axis from which the sine of the arc in which the arm is set may be measured.

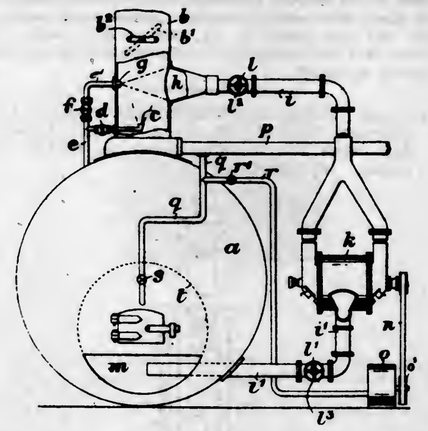
1,384,222. TIRE-RIM CARRIER. CHARLES F. WASSERFALLEN, Detroit, Mich., assignor to Detroit Tire Carrier Co., Detroit, Mich., a Corporation of Michigan. Filed Oct. 29, 1917. Serial No. 199,154. 3 Claims. (Cl. 224—29.)



1. As a means for supporting spare tires, a pair of independent devices secured to the vehicle at points to locate the devices in position to receive a spare tire or rim with the devices positioned at substantially diametrically-opposite points of the rim, each device comprising a bracket adapted to be secured to the vehicle body and having oppositely-disposed arms, said arms each carrying a lateral extension integral therewith, said extensions being spaced apart in the direction of length of the rim to be carried, an integral rim lug carried at the base of each extension, each extension also having its end formed with an integral member projecting therefrom at substantial right angles to the direction of length of the arm and opposite to that of the rim lug, an element projecting from the end of the arm and forming a continuation thereof, a detachable clamping member mounted on said element and supported by the integral member to engage the opposite side of the tire or rim, and means carried by the element to retain the clamping member in clamping position.

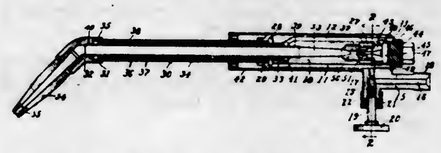
1,384,223. APPARATUS FOR ECONOMIZING FUEL. WILLIAM ANDREW WATTERSON, Euchareena, New South Wales, Australia. Filed Sept. 3, 1919. Serial No. 321,486. 8 Claims. (Cl. 110—49.)

1. In an apparatus of the character described, the combination with a furnace, of a main steam jet entering the flue of the furnace and directed across the direction of flow, an auxiliary steam jet entering the flue below the main jet and directed in the direction of flow, an ex-



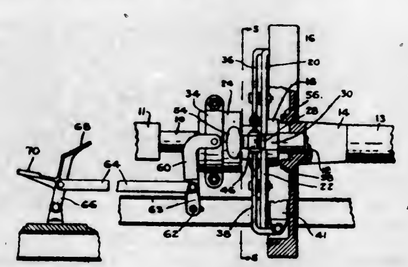
haust conduit communicating with the flue opposite the main jet, and communicating with the ash-pit of the furnace.

1,384,224. OXYACETYLENE-BLOWPIPE. ISAIAH ALLISON, Downers Grove, and WILLIAM J. LEIGHTY, Chicago, Ill. Filed Feb. 20, 1919. Serial No. 278,222. 13 Claims. (Cl. 158—27.4.)



10. In a blowpipe of the class described, a plurality of gas passages and a mixed gas-conveying passage, an injector disposed intermediate of the gas passages and the conveying passage, and means whereby one of the gases is made to flow about and lengthwise of the conveying passage before delivery to said injector, to act as a cooling medium.

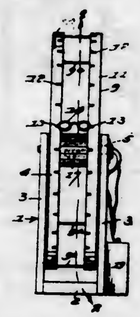
1,384,225. CLUTCH. GILBERT AMONSEN and GEORGE H. AMONSEN, Minneapolis, Minn. Filed Jan. 19, 1920. Serial No. 352,306. 4 Claims. (Cl. 192—53.)



1. A clutch comprising two shafts in longitudinal alinement and having their ends adjacent each other, cooperating frictional clutch members secured to said shafts

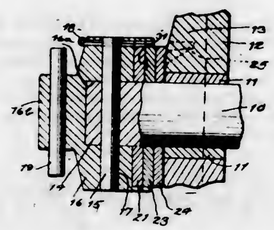
respectively, two arms secured to one of said shafts, levers pivoted to said arms, a collar slidably carried by said last-mentioned shaft, jaws carried by said collar, said jaws having inclined surfaces which engage the inner ends of said levers to cause said frictional clutch members to engage when sliding movement is imparted to said collar, and lugs carried by the other of said shafts with which said jaws engage when said collar is given a further sliding movement.

1,384,226. COMBINATION EYEGLASS TESTING AND DISPLAY DEVICE. THOMAS Z. BASSETT, Judsonia, Ark. Filed July 6, 1920. Serial No. 394,175. 10 Claims. (Cl. 88—22.)



1. In a combined eye glass testing and displaying device, a wheel having a revolubly adjustable illuminated hub, an eye testing chart in surrounding relation thereto, and provided with a plurality of different sizes of eye testing readings, and means on the periphery of the wheel for the support of a plurality of eye glasses arranged in spaced intervals on the wheel.

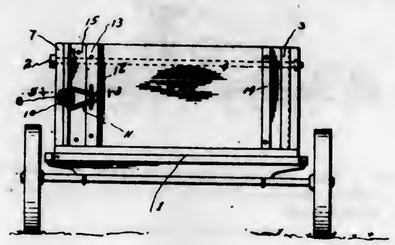
1,384,227. THRUST-TAKE-UP DEVICE. FRANK W. BELK and ANDREW ELIAS VARNER, Oxford, Miss. Filed Jan. 19, 1921. Serial No. 438,463. 4 Claims. (Cl. 64—25.)



1. In a thrust take-up for the crank shafts of internal combustion engines, a member secured to the crank shaft forwardly of the front end bearing thereof, a stationary plate surrounding the shaft and abutting the forward end of the front end bearing, a second plate surrounding the shaft adjacent the rear face of a member and provided in its forward face with sockets, an anti-friction device disposed intermediate said plates, adjusting screws extending through said member and having their rear ends engaged in the sockets of the second plate and thereby holding said second plate against rotation with relation to the member.

1,384,228. END-GATE. LOUIS E. BIEGER, Absarokee, Mont. Filed Sept. 22, 1920. Serial No. 411,888. 3 Claims. (Cl. 296—53.)

1. The combination with a wagon box provided at its rear end on one side with spaced standards and at its opposite side with a single standard having its inner side rabbeted toward its rear edge, an end gate having one end adapted to be engaged between the spaced standards and its opposite end adapted to seat within the rabbet



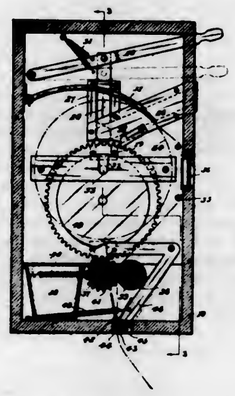
of the other standard, and a latch yieldably mounted upon the wagon bed between the same and the rabbeted standard and adapted to engage the rear side of the end gate at that end thereof fitting within the rabbeted standard.

1,384,229. HOLDER FOR LICENSE-PLATES. CHARLES M. BOLICH, Allentown, Pa. Filed Apr. 2, 1921. Serial No. 457,945. 13 Claims. (Cl. 40—125.)



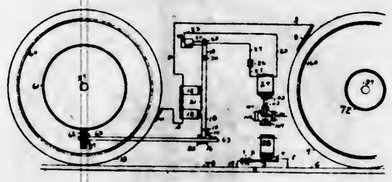
13. A device of the class described comprising, in combination, a member, a plate overlying said member, said plate being provided with slots, slidable members carried by the first named member, each of said slidable members extending within the slot of the plate, and means for constantly urging the slidable member in a direction to engage the portion of the plate defining an end of the slot.

1,384,230. COIN-CONTROLLED MACHINE. FRANK A. BONENBERGER, Louisville, Ky. Filed July 3, 1920. Serial No. 393,959. 4 Claims. (Cl. 194—69.)



1. In a device of the kind described, a rotatable wheel having a pocket at its periphery, a member fitting said pocket removably and having a recess therein adapted to receive and hold a coin, and means to hold said member releasably in position in said pocket.

1,384,231. AUTOMATIC TRAIN-CONTROLLING DEVICE. ABRAM I. BOWER, Boyertown, Pa. Filed Oct. 15, 1913. Serial No. 795,301. 27 Claims. (Cl. 246—179.)



16. In combination, a railway vehicle, means thereon arranged to change gradually toward an ultimate condition, apparatus controlled by said means for governing the vehicle, and devices located in the trackway for causing said means to be restored away from said ultimate condition, said means being adapted to automatically resume its change toward said ultimate condition after such restoration.

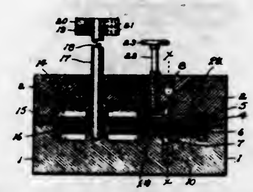
1,384,232. DRAWING-PEN. CHARLES E. BURNAP, Chicago, Ill.; Sarah Burnap, administratrix of said Charles E. Burnap, deceased, assignor to The C. F. Pease Company, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1913, Serial No. 781,711. Renewed Dec. 9, 1920. Serial No. 429,602. 11 Claims. (Cl. 120—100.5.)



11. An instrument of the class described comprising two pens, and means for effecting a relative movement of said pens to present either of them in position for use, the movement of one of said pens taking place along an axis passing through the point of the other pen.

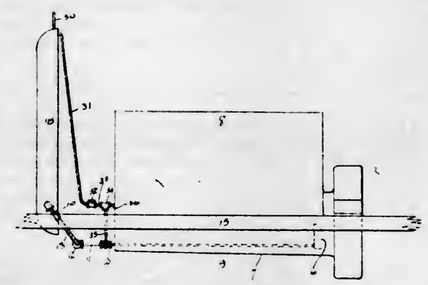
1,384,233. MOTOR-VEHICLE LOCK. EMERY F. CALIFF, Detroit, Mich. Filed Sept. 12, 1919. Serial No. 323,279. 2 Claims. (Cl. 251—6.)

1. In an automobile lock, the combination with a vehicle having a driver's compartment and dashboard and a fuel supply line, of a casing within the fuel supply line forming a chamber and provided with a passage for fuel communication with the supply line and opening at its inner ends through faces of the chamber at opposite points thereof, a plurality of disks in said chamber with their faces in firm contact with the faces of the walls of the chamber and their opposed faces in firm contact with each other, said disks having openings therein transversely thereof adapted to be alined with the fuel passage in the casing by a turning movement of the disks, said disks



being also provided with peripheral teeth, gears in the casing in engagement with the peripheral teeth on the disks, means for turning the gears extending from the casing to a point within the driver's compartment inside the dashboard, and indicating means carried by said means for turning the gears, said indicating means being also located at the inner side of the dashboard.

1,384,234. OIL-COOLING SYSTEM FOR EXPLOSIVE-ENGINES. EVERETT S. CAMERON, West Haven, Conn. Filed Apr. 29, 1920. Serial No. 377,508. 2 Claims. (Cl. 184—104.)

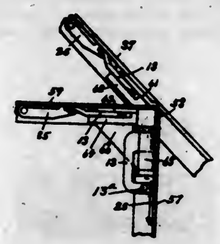


1. An oil-cooling pressure system for explosive engines, having an engine, an oil-tank therefor, a pressure pump, a pressure radiator to which the oil is pumped under pressure from the tank and from which it is delivered under pressure, oil-distributing means leading from the radiator to the working parts of the engine to which the oil is supplied under pressure, and means in the system for cutting out the radiator without interfering with the pumping of the oil under pressure to the working parts of the engine.

1,384,235. BUILDING STRUCTURE. NATHEN K. CAPLAN, Detroit, Mich. Filed Apr. 26, 1920. Serial No. 376,589. 11 Claims. (Cl. 189—1.)

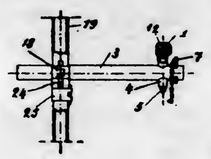
1. In a metal frame, the combination of a series of units meeting at right angles, a plurality of the units being

formed with sockets having openings extending longitudinally of the units and the remainder of the units having



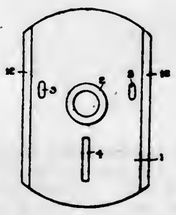
laterally extending tongues projecting into adjacent sockets.

1,384,236. UNIVERSAL COAL-CUTTING MACHINE. ALBERIC LOUIS CHOPIN, Paris, France. Filed July 7, 1919. Serial No. 309,127. 1 Claim. (Cl. 255—53.)



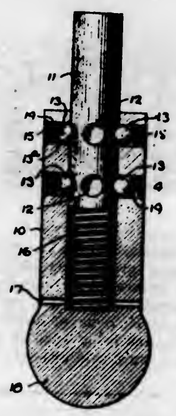
The combination of a supporting column, an arm having a transverse opening and also having a bore extending through one end, means adjustable on the column to secure said arm to said column at an angle thereto, and means to secure a pneumatic hammer to said arm and having an arm for insertion either in the said opening or the said bore thereof.

1,384,237. ADJUSTABLE CHUCK. WILLIAM HUGH CLIFFORD, Ealing, London, England. Filed Dec. 31, 1919. Serial No. 348,689. 3 Claims. (Cl. 279—112.)



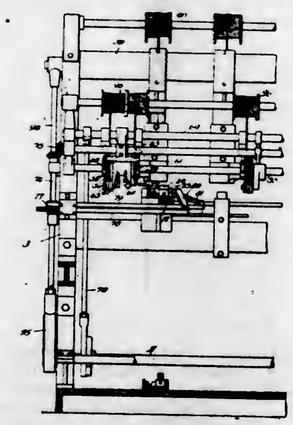
1. A lathe chuck comprising a face plate adapted to be mounted on the mandrel of the lathe, parallel edges respectively arranged on opposite sides of said face plate, a plate adapted to engage and slide over the parallel edges of said face plate and provided with a central channel with edges parallel with the edges of said face plate when the sliding plate is in position thereon, a gripping member mounted on said plate, a plate adapted to engage and slide in said central channel, a gripping member mounted on said cental channel plate and means for locking said plate to said face plate in the position to which they are set.

1,384,238. SHOCK-ABSORBER. ALVIN M. CRAIG, New Haven, Conn. Filed Oct. 1, 1918. Serial No. 256,868. 4 Claims. (Cl. 267—8.)



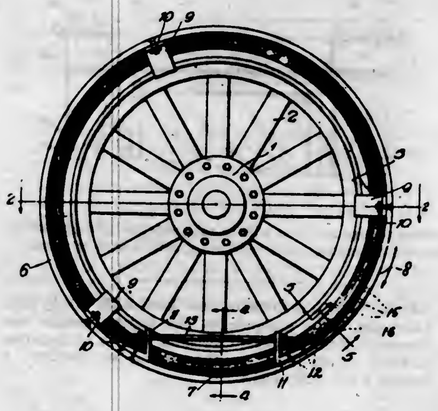
3. A shock absorber comprising a tube, a plunger movable longitudinally in the tube and provided with concaved sockets, and spring pressed balls held to move freely in the recesses of the tube and to fit in the sockets of the plunger.

1,384,239. BOX-BLANK MACHINE. EDWARD CRAIG, St. Joseph, Mich. Filed Sept. 13, 1919. Serial No. 323,494. 30 Claims. (Cl. 1—8.3.)



1. A machine for making folding box-blanks by attaching wires and cleats to sheet material, comprising means to feed the cleats and sheet material forward, with the cleats omitted at intervals on each blank, mechanism to staple the wires to the sheet material and cleats, cams on said means, and devices associated with said means and periodically operated by said cams during the forward feeding movements of the sheets and cleats for automatically controlling said mechanism to drive long staples into the cleats and short staples where the cleats are omitted.

1,384,240. AUXILIARY TIRE FOR VEHICLE-WHEELS. GEORGE A. CRANE, Chicago, Ill. Filed Nov. 6, 1919. Serial No. 336,093. 7 Claims. (Cl. 301—39.)



1. The combination of a wheel having a yielding and resilient tire, a one-piece resilient band encircling the wheel and seated on the tread of said tire, said band being flat in cross section and annular in form to provide a resilient auxiliary tire for the wheel, the band being divided at one side to provide integral lapping end portions which form a splice and which can be adjusted relatively to increase or reduce the diameter of the band, according to the diameter of said yielding and resilient tire, while maintaining a continuous or unbroken tread surface for the band, adjusting devices within the area circumscribed by the band, and means on the inner surface of the band to support said devices and thereby adjustably connect the end portions of the band together for relative adjustment, so that by tightening said devices one end portion of the band will slide upon the other end portion to contract the band upon the resilient tire, and whereby the auxiliary tire and everything necessary for the attachment thereof to an ordinary wheel are readily removable therefrom.

1,384,241. WASHING-MACHINE. JOSEPH T. DAVIESS, Battle Creek, Mich. Filed Feb. 12, 1920. Serial No. 358,183. 4 Claims. (Cl. 68—19.)



1. In a washing machine, a pounder support having a plurality of radial arms of different lengths, and a pounder carried by the end of each arm.

1,384,242. BIT. HARRY L. DAUGHERTY, Carson City, Nev. Filed Feb. 17, 1920. Serial No. 359,371. 1 Claim. (Cl. 54—6.)

A bit comprising flat longitudinal curved cheek plates having their intermediate portions enlarged laterally, a bit bar connected to the enlarged intermediate portions of said flat cheek plates, the upper portions of said plates having strap receiving openings, strap fastening tongues contacting with the outer sides of said flat plates above said openings and having loops passed through said plates beneath said openings, and sphere shaped rosettes attached to the outer sides of said plates at the ends of said bit



bar and having spaced upper and lower alined strap receiving openings defining spaced keeper means for the straps, said rosettes being directly beneath said strap receiving openings and of a diameter less than the width of the enlarged intermediate portions of said cheek plates.

1,384,243. PUNCTURE-PROOF TIRE-INSERT. REUBEN B. DISBROW, St. Paul, Minn. Filed Oct. 31, 1918. Serial No. 260,463. 1 Claim. (Cl. 152—18.)



A casing liner for pneumatic tires having embedded therein an articulated puncture proof insert made up of thin metal sections disposed end to end around the liner, said sections being formed at their ends with longitudinal slits forming central tongues therebetween, the sections being arranged with their ends overlapping and with the central tongue of one section on the opposite side of the adjacent section from the portions at the sides of said tongue.

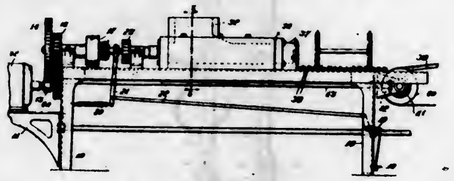
1,384,244. INNER TUBE. REUBEN B. DISBROW, St. Paul, Minn. Filed June 16, 1919. Serial No. 304,574. 1 Claim. (Cl. 152—13.)



An inner tube for pneumatic tires having its outer portion relatively thick and formed with circumferential and transverse exterior channels forming rectangular bearing lugs for engagement with the inner surface of the tire casing, the thickness of the tire below the bottom of said

lugs being greater than that at the inner portion of the tire, the bearing lugs being arranged in longitudinal rows but staggered transversely of the tire.

1,384,245. BUTTER-PRINT MACHINE. HENRY H. DOERING and CHARLES DOERING, Chicago, Ill. Filed Sept. 2, 1920. Serial No. 407,644. 5 Claims. (Cl. 31—65.)



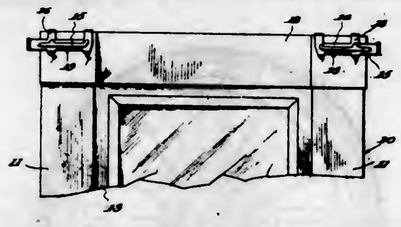
1. In a machine of the character described, a main body portion provided with a pair of cylindrical grooves arranged parallel and in communication with each other at a point in line with the longitudinal axes of said grooves, and a wooden screw or worm disposed lengthwise of each groove, with the spirals of one worm arranged in staggered relation with those of the other, the grooves or spaces intermediate of the spirals of said worms being deeper adjacent the forward sides of the spirals than at the rear sides thereof.

3. In a machine of the character described, a main body portion provided with a pair of cylindrical grooves disposed parallel with each other from end to end, the top of said portion at one end being provided with a feed-opening having a gradually and forwardly slanting wall to provide a flared connection with the cylindrical grooves, a pair of screws or worms, composed of wood, disposed lengthwise of said grooves and provided with spirals approximating the perpendicular to the longitudinal axes of said worms, while the grooves intermediate of the spirals are deeper adjacent the forward sides of the spirals, and a molding head removably secured at the delivery ends of the grooves in the main body portion, communicating with both grooves and provided with an adjustable delivery orifice.

5. A machine of the character described, comprising a horizontally disposed main portion composed of wood and provided with a pair of cylindrical grooves arranged parallel and in communication with each other, said grooves being provided at one end with a feed opening flared forwardly at the bottom thereof, a wooden worm rotatably mounted in and extending lengthwise of each groove and provided with spaces or grooves intermediate of the spirals of greater depth adjacent the forward sides of the spirals, the spirals of one worm being arranged in staggered relation with those of the other worm, means whereby the worms are rotated in opposite directions, a uniformly perforated plate of predetermined thickness disposed at the delivery end of the worm whereby the butter is separated into a plurality of vermicular portions, and a tapered molding head secured to the main portion in abutting relation with said plate, adapted to force the vermicular portions of butter into a compact mass so as to incase the moisture entrained with said vermicular portions.

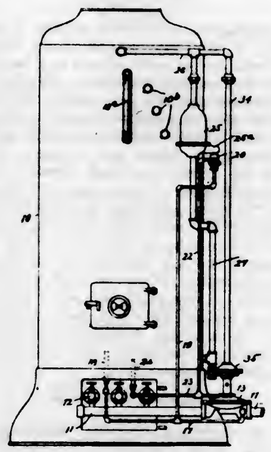
1,384,246. SHADE AND CURTAIN BRACKET. CECIL M. DURNELL, Daytona Beach, Fla., assignor to John F. Phillips, Wilson, Fla. Filed Jan. 22, 1920. Serial No. 353,284. 1 Claim. (Cl. 156—23.)

A device of the class described comprising a length of metal having one end portion extended angularly and constituting a supporting arm, said length of metal being provided adjacent its other end with a pair of spaced parallel longitudinal struck up flanges of elongated formation, a strip having one end portion arranged flatly in contact with said length of metal and engaged on opposite sides by said flanges, the said end portions of said strip being provided in opposite sides with notches, said length of metal being provided with a pair of struck up



locking prongs received within said notches, and oppositely directed attaching arms carried by said length of metal.

1,384,247. FUEL CONTROL FOR BOILERS. OTTO FOX, Lakewood, Ohio, assignor to The Bryant Heater and Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 16, 1919. Serial No. 304,365. 9 Claims. (Cl. 122—504.)



1. In combination with a boiler having a gas supply pipe, a shut-off valve in said pipe provided with a pressure responsive device for closing the same, a normally closed connection between the gas supply pipe and the pressure responsive device, and means whereby when the water in the boiler reaches a predetermined low level said connection is opened so as to permit the shut-off valve to be closed by gas pressure.

1,384,248. DIRECTION-INDICATOR. LOUIS FRANK, Miami, Ariz. Filed Apr. 7, 1921. Serial No. 459,313. 9 Claims. (Cl. 116—50.)



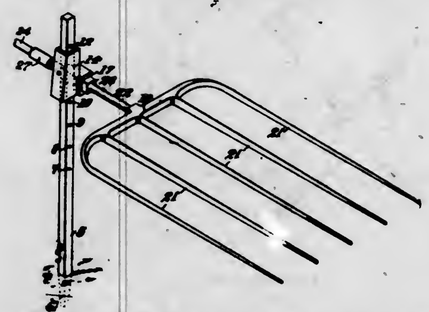
1. In a direction indicator of the kind described, a channel member having a web provided with a slot having inwardly tapered edges to form guide rails, a lamp carrier having rollers running on said guide rails, and means to prevent spreading of the guide rails and release of the carrier.

1,384,249. DIRECTION-INDICATOR. LOUIS FRANK, Miami, Ariz. Filed Apr. 22, 1921. Serial No. 463,519. 13 Claims. (Cl. 116—50.)



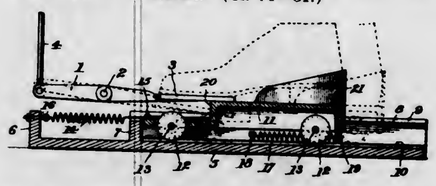
1. In combination, a pair of guide members adapted to be supported at opposite ends of an automobile and having display openings therein, a lamp carrier mounted on each of the guide members, and a connection between said carriers arranged to move both carriers simultaneously in the same direction.

1,384,250. COMBINATION BARBECUE IRON AND GRATE. ACEL H. FROOM, Santa Maria, Calif. Filed Aug. 5, 1920. Serial No. 401,441. 1 Claim. (Cl. 126—30.)



In a device of the character described, a post, a series of perforations therein, a slide movable vertically on said post, a pin on said slide adapted to selectively engage any one of said perforations, a spring in said slide adapted to lock said pin in said perforation, a slot of angular cross-section in said slide, a barbecue iron with a handle thereon being of partly angular and partly round cross-section and adapted to be selectively either rigidly or rotatably supported in said slot.

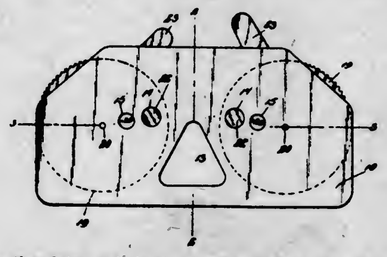
1,384,251. SAFETY-LOCK FOR FOOT-LEVERS. HYMAN GELLMAN, New York, N. Y. Filed May 7, 1920. Serial No. 379,467. 7 Claims. (Cl. 74—81.)



1. The combination with a foot lever, of a carriage to normally support said lever and lock the same against operation, and foot holding means on said carriage whereby the latter may be withdrawn from below the lever by the foot of the operator and the lever actuated by the same foot while on the carriage and holding the same in withdrawn position.

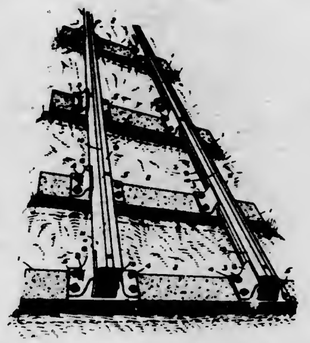
1,384,252. EYE-TESTING DEVICE. JAMES F. GIDDENS, Morehead City, N. C. Filed May 29, 1920. Serial No. 385,236. 2 Claims. (Cl. 88—22.)

1. An eye testing device embodying a plurality of spaced plates having registering openings to admit the nose and spaced registering openings upon each side of the nose openings, perforated disks mounted for rotation between the plates and having lenses in said perforations adapted to be brought into register with certain of the spaced openings, other disks rotatably mounted be-



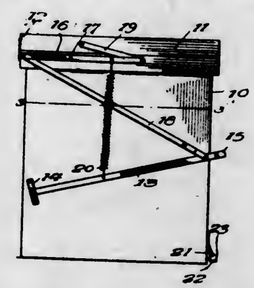
tween the plates and also having lens covered perforations adapted to be brought into register with the first mentioned lenses and indicia carried by all of said disks and visible through the openings to determine the character of the lenses.

1,384,253. CONTINUOUS RAIL. WILFRID J. GIRARD, San Francisco, Calif. Filed Oct. 30, 1918. Serial No. 260,248. 4 Claims. (Cl. 238—139.)



1. A rail comprising a plurality of longitudinal sections of corresponding width having engaging means therebetween, and a holding chair provided with a removable key for locking said sections together.

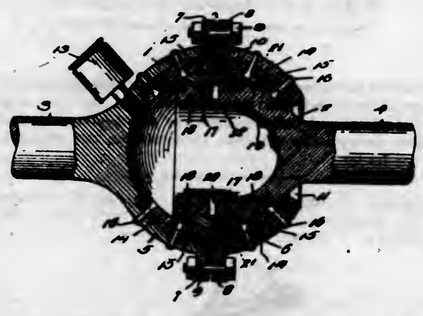
1,384,254. LID-OPERATING DEVICE. WILBERT C. HAGLEY and EDWARD O. HAGLEY, Huntington, W. Va. Filed Aug. 13, 1919. Serial No. 317,275. Renewed Dec. 28, 1920. Serial No. 433,742. 3 Claims. (Cl. 220—36.)



1. In a lid operating device, the combination with a receptacle having a hinged lid, a U-shaped treadle pivoted

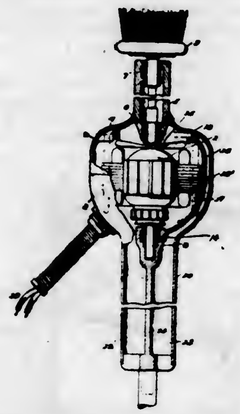
at its free ends against the opposite sides of the receptacle and extending across the front thereof, a lever pivoted on each side of the receptacle near the top thereof, a pair of links between the treadle and one end of each of said levers, a second pair of links between the other ends of said levers and the lid, a spring between the treadle and the adjacent lever at each side of the receptacle for urging the treadle upwardly to close the lid, and foot releasable means on the lower end of the receptacle adapted to engage the treadle for holding the lid open against the tension of the spring.

1,384,255. UNIVERSAL JOINT. OSCAR W. HANSON, Salina, Kansas. Filed Dec. 2, 1919. Serial No. 342,001. 5 Claims. (Cl. 64—91.)



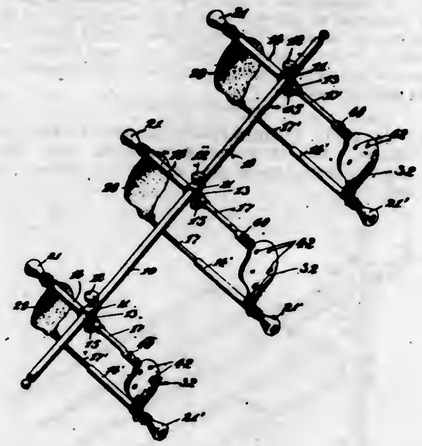
1. A universal joint comprising a ball member, a transversely divided socket member composed of detachably connected section, the outer peripheral surface of said ball member and the inner peripheral surfaces of the sections of the socket member being provided with opposed sets of grooves in the plane of the longitudinal axis of the joint, sectional keys fitted in said grooves and secured to the socket member, and circular disks fitted to oscillate in said ball member to permit movement of said members in a plane transverse to the longitudinal axis of the joint, said disks having grooves slidably receiving said keys.

1,384,256. MOTOR. ANNIE L. HARRELL, Seattle, Wash. Filed June 7, 1920. Serial No. 387,105. 5 Claims. (Cl. 172—36.)



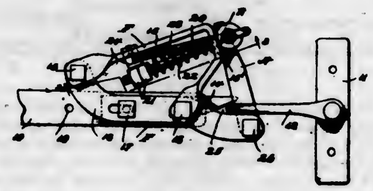
1. A portable hand motor, including a shell in which the motor is mounted, said shell having a tubular extesion divided by a longitudinal web into two channels, a fan operated by the motor within the casing remote from said extension, and a fluid channel formed within the casing in communication with one of said first mentioned channels and opening adjacent the fan.

1,384,257. LIMB-STRAIGHTENING DEVICE. JOHN HILGERS, Binghamton, N. Y. Filed Jan. 8, 1921. Serial No. 435,814. 16 Claims. (Cl. 128—80.)



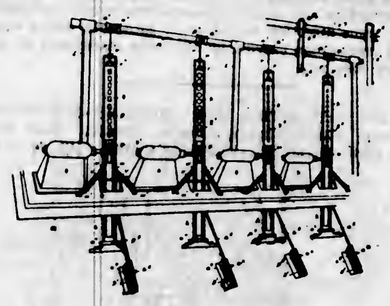
1. A device of the character specified, in combination, a main supporting member, a plurality of compression members slidably carried by the supporting member, means for fixedly attaching the compression members at predetermined positions upon the supporting member, means for allowing an angular movement of the compression members with respect to the supporting member, means for fixedly attaching the compression members to the supporting member at predetermined positions with angular respect to the supporting member and means for contracting and expanding the compression members.

1,384,258. AUTOMATICALLY-RELEASING COUPLING. ALBERT B. HULSEBOS and GERRITT DEN BESTEN, Corsica, S. D., assignors to Safety Release Clevis Company, Corsica, S. D., a Partnership consisting of Albert A. Hulsebos, Gerritt Den Besten, Henry Ketel, and H. N. Waite. Filed Oct. 4, 1920. Serial No. 414,546. 5 Claims. (Cl. 213—67.)



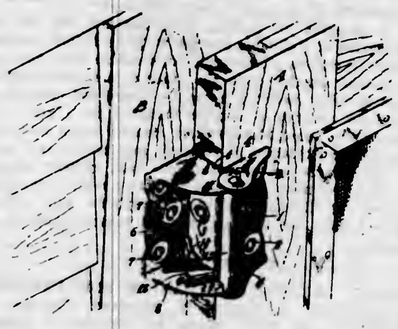
1. In a device of the class described, a frame adapted to be secured to a vehicle or implement, an arm pivoted to said frame and adapted to releasably retain a clevis or link connected to a power device, and means including a latch, keeper and spring for releasably securing the free end of said arm to said frame.

1,384,259. VERTICALLY-OPERATED BUFFING DEVICE FOR METAL CASES. MARTIN JELALIAN, Cranston, R. I. Filed Nov. 9, 1920. Serial No. 422,962. 4 Claims. (Cl. 51—91.)



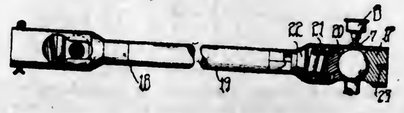
1. In combination with a buffing bench having standards arranged upon the top of the same, a vertical support member forwardly of each of said standards and having pivotally connected to the floor beneath said bench and projecting through the same in a slanting vertical position and having reduced sections extending vertically and supporting a horizontal shaft upon the upper ends thereof, a pull-rope extending from each of the inner slidable members of the said vertical support members and passing through a pulley secured upon said shaft of the reduced sections of said vertical support members and adapted to spin between each pair of collars of a horizontal shaft arranged above said bench, a buffing-grease applying arm for each of said vertical support members and having pivotally connected to the reduced sections of the same and having a bar of buffing grease secured at its forward end and provided with pull-spring connections at the rear ends thereof to apply buffing grease to the buff-wheels of said standards.

1,384,260. HINGE. WILLIAM KANTER, Cleveland, Ohio, assignor to The Kanters Stamping & Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 19, 1917. Serial No. 148,210. 5 Claims. (Cl. 16—25.)



3. A hinge comprising an angle plate adapted to engage the front and side surfaces of a closure, wings extending from the ends of the plate in substantially parallel relation to each other, a second plate offset rearwardly from the plane of the front surface of the closure and having wings which extend forwardly and overlap the wings of the former plate, a pintle pivotally connecting the overlapping wings of the plates, a spring surrounding the pintle and having one end in engagement with the front portion of the angle plate, the other plate having a projection on one of its end wings for holding the opposite end of the spring, a sleeve disposed between the opposed end wings of the plates and inclosing the spring, the second plate having a portion constituting a stop to be engaged by and limit the movement of the first plate in the direction in which it is impelled by said spring.

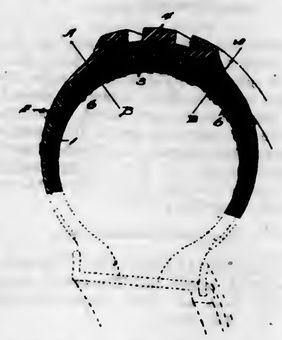
1,384,261. DRAG-LINK. REYNOLD E. KLAGES, Columbus, Ohio. Filed Apr. 19, 1920. Serial No. 375,067. 6 Claims. (Cl. 113—112.)



1. A drag-link or the like comprising hollow end sections having reduced inner ends and a tubular intermediate section to which said reduced ends are welded, said end portions being each formed from a pair of semi-bottle shaped parts welded together longitudinally.

6. The method of manufacturing hollow metal drag-links for vehicles which consists in shaping sheet metal to form troughs each consisting of one half of a socket and one of which is pierced to receive a steering arm, thereafter uniting said troughs in pairs along their edges to form bottle shaped sockets, and butt-welding the reduced ends of said sockets to the corresponding ends of a tube.

1,384,262. TIRE-TREAD. CHAUNCEY L. LANDON, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 20, 1918. Serial No. 218,249. 6 Claims. (Cl. 152—13.)

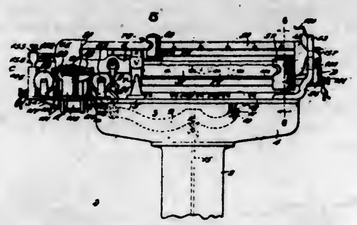


1. In a tire casing, the combination with a tread portion, of a body portion having a plurality of resilient strips of more elastic composition than the tread portion incorporated in the body of the tire, the strips being entirely located in the half of the tire embodying the tread.

1,384,263. AUTOMATIC WEIGHING-MACHINE. ARNOLD LARSEN, Cleveland, Ohio, assignor to The William Gent Vending Machine Company, Cleveland, Ohio, a Corporation of Ohio. Continuation of application No. 876,423, filed Dec. 10, 1914. This application filed June 20, 1918. Serial No. 240,923. 13 Claims. (Cl. 265—56.)

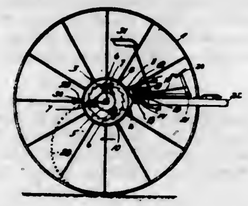
1. In an automatic weighing machine, the combination of a load carrying member, a branched scale beam operatively connected thereto, a weight on each of the branches of said beam, said beam and load carrying member being normally overbalanced by said weights, means

energized upon the depression of the load carrying member for automatically moving one of said weights along its beam branch until said weight is overbalanced by the



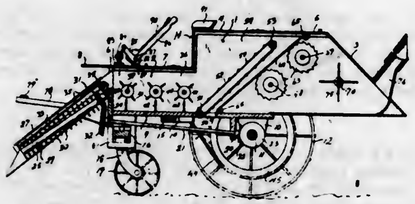
load, means operating thereafter to automatically move the other weight along its branch to load balancing position, and means for thereafter returning both of said weights to initial position.

1,384,264. SELF-DUMPING HAY-RAKE. JAMES L. LEONARD, Pleasant Hill, Mo. Filed Apr. 14, 1920. Serial No. 373,770. 7 Claims. (Cl. 56—388.)



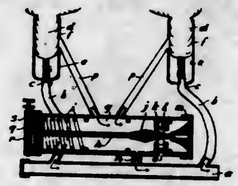
1. A self-dumping hay rake, comprising an axle provided with rake teeth, parts rigid with the axle and provided with spindles alined with the axle, wheels journaled on said spindles, disks rotatable around the axis of the axle adjacent the said parts, pawl and ratchet mechanisms for transferring power from said wheels to said disks when the wheels are turning forwardly, and means for securing the said disks in rigid relation to the said parts, to effect turning movement of the axle to lift the rake teeth from the ground.

1,384,265. COTTON-HARVESTER. WILLIAM F. LOCKWOOD, BEALIE H. SCOTT, and WILLIAM G. ROYAL, Hollis, Okla. Filed June 12, 1920. Serial No. 388,442. 6 Claims. (Cl. 56—35.)



3. A machine of the class described comprising a portable body, gathering means carried thereby and extending in advance thereof and delivering upon the forward end portion of the body, a plurality of upstanding fingers carried by the forward end of the body portion, a plurality of braking members carried by the body portion and cooperating with the upstanding fingers, the said braking members being so arranged that the articles delivered to one of the braking members are delivered by the said braking member to the remaining braking members, a sprocket on the end of each of the braking members, a chain passing around all of the said sprockets, means for rotating one of said sprockets and thereby transmitting rotary movement in the same direction to the other sprockets, and a separating mechanism carried by the body rearwardly of the braking members.

1,384,266. PULSATOR FOR MILKING-MACHINES. ROBERT MAES, Calgary, Alberta, Canada. Filed Dec. 27, 1920. Serial No. 433,349. 3 Claims. (Cl. 31—99.)



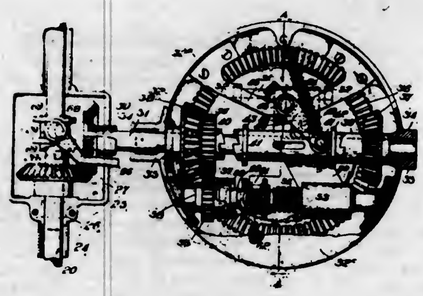
1. A pulsator for milking machines and the like consisting of a cylindrical chamber or cylinder provided with a solid ended piston subject to atmospheric pressure and retained by a coil spring placed around the stem or piston rod, a cam secured upon the piston rod in relation to a hollow slide valve, a hollow valve slidable within the said chamber and adapted to open and close ports in the cylinder shell, a coil spring interiorly fitted to the said slide adapted to expand when the cam engages it and to travel along the said cam as the result of contraction of the said coil spring carrying the slide in a direction opposite to that of the piston all substantially as described.

2. A pulsator for milking machines and the like, in combination with a teat cup and vacuum extracting device a hollow cylindrical member a piston slidable within the said cylinder, a cam securely mounted around the central rod of the piston, an expanding member adapted to engage around the surface of the said cam, a slide valve exteriorly engaging the interior walls of the said cylinder, having an interior groove within which the expanding member is retained, the said slide being given motion by the action of the expanding member coacting upon the tapering surface of the cam and operating air and vacuum valves so as to reverse the direction of the vacuum and air pressures all substantially as described.

3. A pulsator for milking machines and the like the combination of a slidable plunger within a hollow cylinder adapted to receive atmospheric air pressure upon one face and vacuum suction upon the other face simultaneously, a cam securely mounted upon the piston rod adapted to engage an expanding member mounted in a groove in a slide valve the said expanding member when the point of maximum expansion is reached, contracting and causing the slide to travel within the said cylinder closing one set of cylinder ports and opening another set which reverses the direction of the atmospheric and vacuum influence upon the said plunger, all substantially as described.

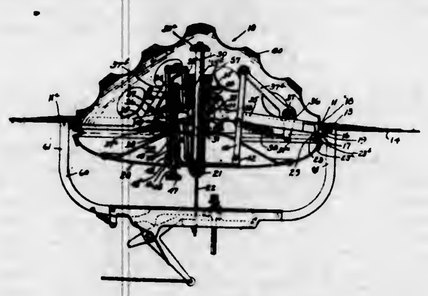
1,384,267. DRIVING MECHANISM FOR LAUNDRY-MACHINES. LAWRENCE W. MAMMEN, Chicago, Ill. Filed Nov. 13, 1916. Serial No. 131,141. 7 Claims. (Cl. 74—50.)

1. Driving mechanism of the character described, comprising, a gear adapted to transmit motion to the device to be operated, a shaft disposed transverse of said gear, a pair of gears loosely mounted on said shaft and arranged in mesh with the first gear at diametrically opposite points, a double clutch slidably keyed to said shaft, intermediate of the loosely mounted gears, adapted to alternately have clutching engagement with said pair of gears, a second shaft disposed parallel with the first shaft, a member adapted to travel lengthwise of the second shaft and parallel with the direction of movement of said double clutch, gearing intermediate of one of the loosely mounted gears and said second shaft whereby the latter is rotated alternately in opposite directions and



said member caused to travel in opposite directions lengthwise of said second shaft, and spring-controlled means operatively connected with said member and adapted to move into engagement with said double clutch whereby the latter is forced into clutching engagement with the selective gear of said loosely mounted gears.

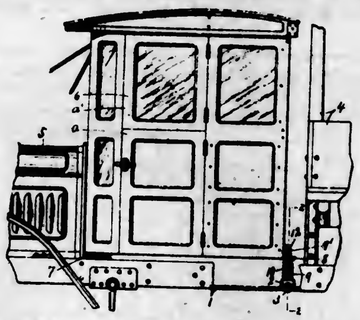
1,384,268. AUTOMATIC GAS-VALVE. ALGER G. MARANVILLE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 16, 1919. Serial No. 331,197. 21 Claims. (Cl. 244—31.)



1. In an apparatus for controlling the flow of fluid, a valve seat, and an automatically operating valve adapted to open under fluid pressure and with decreasing resistance to said pressure.

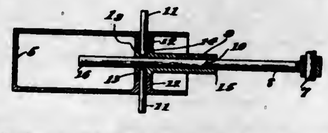
1,384,269. ROAD-VEHICLE OF THE MOTOR-TRUCK TYPE. NUGENT MILNER, Watertown, N. Y., assignor to H. H. Babcock Company, Watertown, N. Y., a Corporation of New York. Filed Nov. 26, 1919. Serial No. 340,690. 2 Claims. (Cl. 280—106.5.)

1. In combination with a chassis frame having opposite lengthwise side bars and a cross bar, a cab hinged at its front end to the chassis and having its rear end provided with a cross bar overlying the first-named cross bar, springs interposed between the cross bars, bolts passed through the cross bars and spring and having their upper ends provided with shoulders, and separate springs



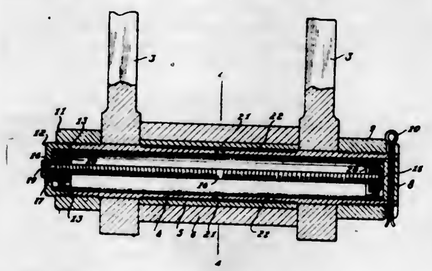
of less resistance than that of the first named spring interposed between the second named cross bar and shoulders.

1,384,270. SAFETY CONNECTING-ROD FOR AUTOMATIC STOKERS. MICHAEL MURPHY, Youngstown, Ohio. Filed Jan. 20, 1921. Serial No. 438,697. 1 Claim. (Cl. 74—48.)



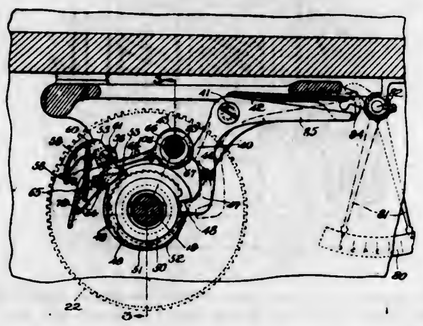
In a device of the class described, a safety connecting rod, one end of the same being connected to a crank, the other end extending through a sleeve, a soft steel shearing pin passing through said sleeve and connecting rod, the said sleeve having an enlarged end provided with two holes, a plunger provided with an inner flange and provided with two holes through the outer walls of said plunger and extending through said inner flange, two rods passing through said holes and seated in the two holes formed in enlarged end of the sleeve, substantially as described for the purpose set forth.

1,384,271. LUBRICATING-BOLT. HARRY M. NAUGLE, Canton, Ohio, assignor to The Alloy Parts Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Nov. 19, 1919. Serial No. 339,094. 6 Claims. (Cl. 64—27.)



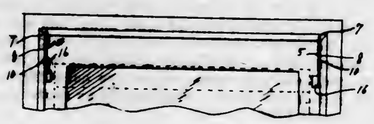
1. A hollow bolt forming a journal in the bearing of a spring eye or the like, an aperture in the bolt at the middle of the bearing, plungers in each end of the bolt, and means for simultaneously moving the plungers from the ends of the bolt to and from the middle aperture.

1,384,272. SPRING-MOTOR-CONTROLLING MECHANISM. BERNARD S. NICKERSON, Boston, Mass. Filed Sept. 10, 1917, Serial No. 190,458. Renewed June 23, 1919. Serial No. 306,206. 30 Claims. (Cl. 185—43.)



20. A spring motor comprising a spring, a rotatable spring-driven element, a rotatable spring-winding element, a ratchet on said winding element, a yielding pawl associated with said ratchet and permitting a limited reverse rotation of said winding element, a movable member for holding said driven element against rotation, and a second member frictionally engaged with the winding element for moving said first-mentioned member into and out of active position, whereby said driven element is held against rotation during the rotation of said winding element to wind the spring.

1,384,273. CURTAIN AND SHADE FIXTURE. FREDRICK C. PALOSKY and SIMON ZIMMERMANN, Pontiac, Mich. Filed July 28, 1920. Serial No. 399,641. 1 Claim. (Cl. 156—24.)



As an article of manufacture, a curtain and shade fixture consisting of an elongated blank of material having spaced extensions projecting from one longitudinal edge of the blank in the plane of said blank, said extensions including hooks, said hooks being disposed in spaced parallel relation to said longitudinal edges of the blank, a portion of one end of said blank being offset laterally with respect to said longitudinal edge of the blank, said offset portion terminating in a plane parallel to the plane of the opposite longitudinal edge of the blank and having an aperture adapted to receive the pintle of a curtain roller.

1,384,274. DEMOUNTABLE RIM. ORREL A. PARKER, Cleveland, Ohio. Filed Jan. 10, 1917. Serial No. 141,704. 5 Claims. (Cl. 301—28.)



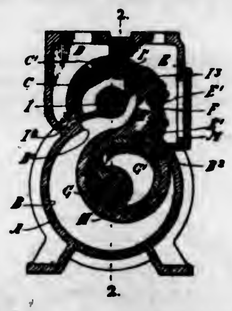
1. The combination with a wheel the body portion proper of which is eccentric, of a demountable tire carrying rim, means exerting radial pressure only upon said rim, and means coöperating with said radial pressing means to prevent lateral displacement.

1,384,275. SUNSHADE FOR AUTOMOBILE-WINDSHIELDS. AUSTIN PEARCE, Memphis, Tenn. Filed July 15, 1920. Serial No. 396,888. 2 Claims. (Cl. 296—97.)



1. A sunshade for automobile windshields comprising a flat strip of fabric of single ply throughout and of a size at least equal to the area of the shield to be covered, straps attached to one longitudinal edge of the fabric near the ends thereof and adapted to be connected to the other longitudinal edge of the fabric so that the fabric and straps encircle the windshield but without connection to it, so that the fabric may be adjusted to cover different portions of the windshield, substantially as described.

1,384,276. ROTARY PUMP OR COMPRESSOR. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Nov. 2, 1920. Serial No. 421,272. 3 Claims. (Cl. 230—30.)



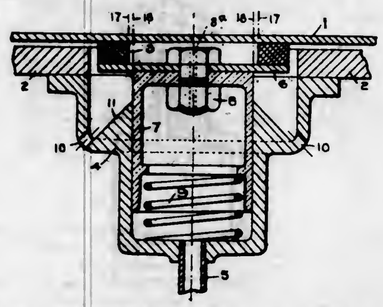
1. In combination with a rotary pump having a rotary eccentric ring piston and a piston extension forming a partition between the admission and exhaust ports, a valve for closing the admission port, means for moving said valve whereby it closes said port during the period when the piston is out of contact with its cylinder and leaves the port open at all other times and a valve for closing the delivery port opening under the pressure of the fluid in the pump and closing with the back flow when said pressure ceases.

1,384,277. PADLOCK. ANTONI SKUTNIK, Dickson City, Pa. Filed Oct. 14, 1920. Serial No. 416,995. 3 Claims. (Cl. 70—105.)



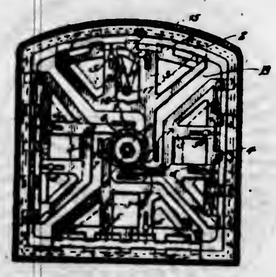
2. A padlock comprising a casing having a head at one end adapted for the insertion of a key, a shackle projecting into said casing a short distance from the opposite end, a pair of tumbler arms hinged at the last end of the casing and extending forwardly on opposite sides of the said shackle and adapted to have locking engagement with the latter, the said tumbler arms presenting key actuable surfaces to the rear of the said shackle, said shackle being slotted at its end to permit of passage of a key therethrough.

1,384,278. APPARATUS FOR GRINDING AND POLISHING PLATE-GLASS. FRANK EDWIN SLOCOMBE, St. Helens, England, assignor to Pilkington Brothers Limited, St. Helens, England, a Limited Liability Company of Great Britain. Filed Sept. 26, 1918. Serial No. 255,729. 16 Claims. (Cl. 51—234.)



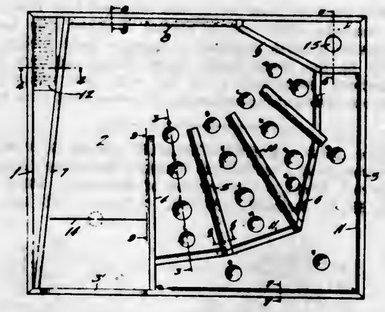
1. In a sucker device adapted to hold glass on to a grinding or polishing table the combination with a sucker movable relatively to the table and to which the glass is attached by atmospheric pressure, of pneumatic means operatively connected to the sucker for allowing the glass to be pressed against the table by atmospheric pressure, the relative areas of the glass and pneumatic means which are subjected to the said pressure being such that, of the total atmospheric pressure on the glass due to whatever degree of vacuum there may be in the sucker device, a portion determined by the dimensions of the latter operates to press the glass on to the table while the remainder presses the glass on to the sucker.

1,384,279. BURIAL-VAULT CLOSURE. HENRY C. SPONHAUER, Galion, Ohio. Filed Oct. 20, 1919. Serial No. 331,962. 2 Claims. (Cl. 292—89.)



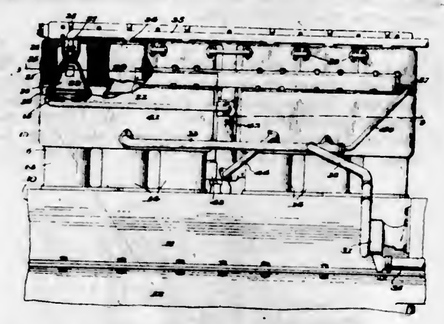
1. In a burial vault, the combination of a vault body, a closure therefor, a locking means for the closure consisting of a series of locking bolts, and means to operate said bolts comprising a two part shaft on the closure, a pinion connected with one part of said shaft and engaging the locking bolts to operate the latter in one direction and a disk carried by said part of the shaft adapted to engage the bolts and move them in another direction, the other part of the shaft being movable with the first named part to cause the pinion to actuate the bolts, and being movable relatively independently of said first named part to cause the disk to actuate the bolts, the pinion being arranged to cause sliding movement of the bolts and the disk being arranged to cause a lever-like movement of the bolts.

1,384,280. GAME-BOARD. DON L. STERLING, Dallas, Tex., assignor to Sterling Games Company, Dallas, Tex., a Corporation of Texas. Filed July 12, 1919, Serial No. 310,308. Renewed Jan. 19, 1921. Serial No. 438,526. 10 Claims. (Cl. 46—61.)



1. A game board having a banking cushion, a playing field, a shooting field, and a cushion overlapping both fields, the shooting field having a width such as to permit lateral positioning of a cue ball to bank the same at various angles into the playing field, the playing field having radial divisions.

1,384,281. HYDROCARBON-MOTOR. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed May 11, 1914, Serial No. 838,622. Divided and this application filed Feb. 21, 1916. Serial No. 218,556. 8 Claims. (Cl. 123—173.)



1. In a hydrocarbon motor, the combination with a plurality of water jacketed cylinders and water jacketed head pieces for each cylinder having water jackets separate from the cylinder water jackets, of means for circulating water through several of said head pieces in series.

1,384,282. ARTIFICIAL TOOTH. CLARENCE E. TUTTLE, Readville, Mass. Filed Jan. 18, 1918. Serial No. 212,424. 1 Claim. (Cl. 32—9.)

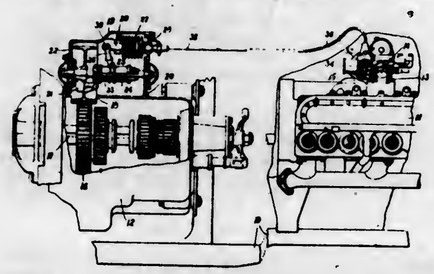
As an article of manufacture an artificial tooth adapted to be used either for plate work or to crown a tooth stump, said artificial tooth having a base face which is concaved from the front to the back of the tooth and also having a flat bottom cavity situated within its body and extending

from its base well toward the tip, said cavity having a progressively-decreasing cross-sectional area from said flat bottom to a point near the concaved base face of the tooth and having a progressively-increasing cross-sectional area from said point to the base face, said concaved base face being arranged to fit a plate when the



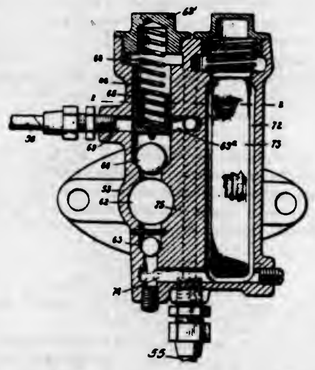
tooth is used for plate work, said concaved base face being of a material which can be ground off when it is desired to provide a tooth suitable to crown a tooth stump, the cavity in the tooth being unobstructed and free from projections extending from its wall and adapted to receive a cementitious substance for cementing it in place.

1,384,283. MOTOR-VEHICLE. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 30, 1916. Serial No. 117,772. 6 Claims. (Cl. 264—2.)



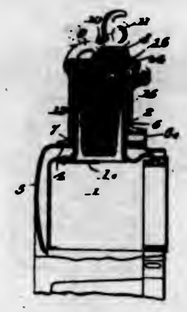
1. In a motor vehicle, in combination, a hydrocarbon motor having a throttle valve, a gear box having a sliding gear therein, a gear having a relatively long face in constant mesh with said sliding gear, a governor operated by said long faced gear, and connections from said governor to the throttle valve.

1,384,284. HYDROCARBON-MOTOR. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Original application filed Oct. 14, 1912, Serial No. 725,741. Divided and this application filed Aug. 30, 1916. Serial No. 117,773. 9 Claims. (Cl. 184—27.)



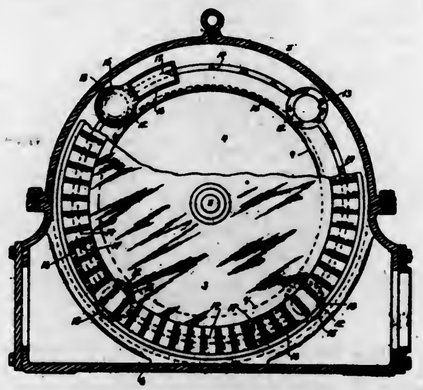
9. In a hydrocarbon motor, an oil distributing system having a passageway receiving oil under pressure, a control valve for said system comprising a cylinder having a main outlet and an overflow outlet beyond the main outlet, a piston controlling the outlets, and a spring to maintain the piston in a position normally closing both outlets and permitting it under pressure to first open the main outlet and later the overflow outlet.

1,384,285. RADIATOR FOR MOTOR-VEHICLES. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed June 13, 1917. Serial No. 174,640. 3 Claims. (Cl. 257—125.)



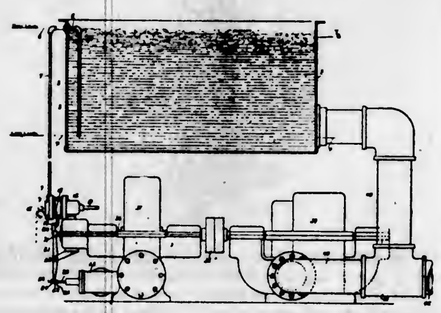
1. The combination with a radiator including a tank provided with a filler tube, of a removable shell for covering the tank and having a sleeve to inclose the filler tube, the upper end of the sleeve fitting snugly around the tube, and a cap pivoted to the sleeve and adapted to close the filler tube, said sleeve and cap, when the latter is closed, entirely covering the filler tube.

1,384,286. STEAM-TURBINE. LUCIUS E. WHITON and HENRY B. LEE, New London, Conn., assignors to The D. E. Whiton Machine Co., New London, Conn., a Corporation. Filed Mar. 13, 1920. Serial No. 365,589. 2 Claims. (Cl. 253—78.)



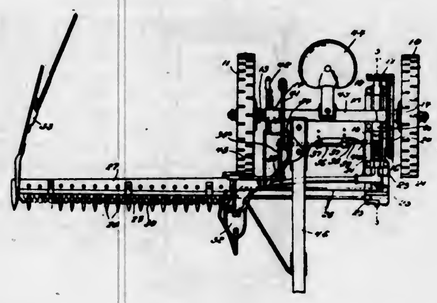
1. A steam-turbine having one of the side walls of its steam-chamber formed with equi-distant positioning-recesses united by an annular positioning-groove, in combination with steam-nozzles having hubs entering the said recesses, and fingers entering the said groove, whereby the nozzles are positively held against lateral displacement.

1,384,287. AUTOMATIC CONTROLLING APPARATUS FOR TANK-PUMPS. LUCIUS E. WHITON and HENRY B. LEE, New London, Conn., assignors to The D. E. Whiton Machine Company, New London, Conn., a Corporation. Filed Mar. 13, 1920. Serial No. 365,654. 1 Claim. (Cl. 103—86.)



In an automatic controlling apparatus for tank-pumps, the combination with a tank, of a tank-pump, a motor therefor, a motor-controller, and a hydraulic motor-controller operator including a siphon the high and low points of which substantially coincide with pre-determined high and low water-levels in the tank.

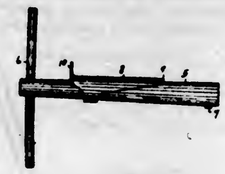
1,384,288. MOWING-MACHINE. FRANK R. WILSON and ANDREW O. RINGO, Williston, N. D. Filed July 24, 1918. Serial No. 246,563. 1 Claim. (Cl. 56—274.)



A mowing machine comprising a frame, means for pivotally supporting said frame transversely beneath the axle of the machine, a cutter bar, a driving gear mounted upon the axle of the machine, mechanism including gear operated cranks supported in said frame for operating the cutter bar from the driving gear, a clutch included in said mechanism, a pivoted clutch lever and a rock shaft engageable with one end of the pivoted clutch lever for controlling the operation of the clutch lever to disconnect the gear operated cranks.

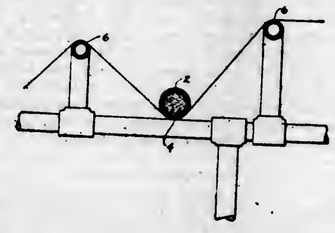
1,384,289. SLEEVE-PULLER. JOSEPH H. WILSON, Houston, Tex. Filed Apr. 22, 1920. Serial No. 375,733. 3 Claims. (Cl. 29—88.2.)

1. A sleeve puller including a tubular member, a rigid laterally projecting stud at one end thereof and adapted to engage with the sleeve to be pulled, and a wedge shaped member slidably mounted on said tubular member, and



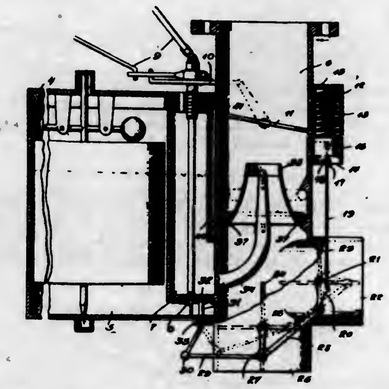
adapted to enter the side of the sleeve opposite the stud to secure said stud in engagement with the sleeve.

1,384,290. PROCESS OF MAKING COLORED PAPER. LESTER P. WINCHENBAUGH, Hyde Park, and LAWRENCE GENTILE, Melrose, Mass. Filed Dec. 28, 1920. Serial No. 433,619. 3 Claims. (Cl. 91—68.)



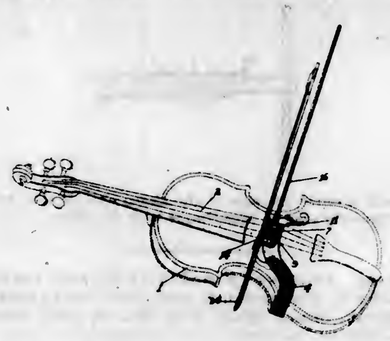
1. A process of making colored paper which comprises taking a paper which varies in thickness at different points therein and applying to one side thereof a penetrative coloring liquid in regulated quantity sufficient to cause the same to strike through the paper at least at the thin points therein.

1,384,291. METHOD OF OPERATING AND A CONTROLLING MEANS FOR CARBURETERS. DAVID L. WINTERS, Edgewater, Md. Filed Oct. 15, 1919. Serial No. 330,799. 4 Claims. (Cl. 123—122.)



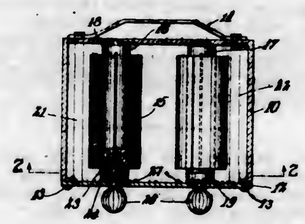
1. In a carbureter, in combination, an intake for the engine, a hot air intake, a cold air intake, a fuel valve, means operated by the vacuum existing in said engine intake to control the admission of hot and cold air and said fuel valve.

1,384,292. VIOLIN-BOW GUIDE. SPENCER L. YATES, Oakland, Calif. Filed Aug. 28, 1920. Serial No. 406,742. 5 Claims. (Cl. 84—283.)



1. A violin bow-guide comprising a support adapted to be secured to the violin body and projecting over the bridge thereof, and a rod mounted on the support and extending transversely of the violin and beyond one side thereof, said rod being passed through the hand of the user of the violin bow, and a guide fork positioned at right angles to the belly of the violin fixed to the end of the rod adjacent the bridge and projecting into the plane of the violin-bow, the latter passing therethrough.

1,384,293. TOY SCENERY-BOX. JOHN ZIEBA, Scranton, Pa. Filed July 29, 1920. Serial No. 399,811. 4 Claims. (Cl. 40—86.)



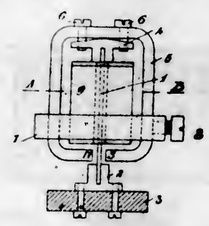
1. In a toy of the character described, a roll adapted for having a sheet rolled thereon, said roll having a recess extending inwardly from one end thereof, a cap covering said recess and secured to said roll, said cap having an elongated opening therethrough, and means adapted to be inserted through said opening and engage the inner face of said cap whereby the said roll may be rotated.

1,384,294. MIRROR AND METHOD OF BACKING THE SAME. CARL E. ANDLEY, New York, N. Y. Filed Mar. 19, 1919. Serial No. 283,645. 3 Claims. (Cl. 88—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



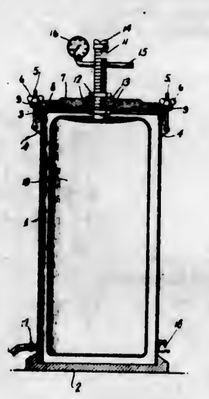
1. A mirror provided with an annular member secured to the outer edge thereof, a hub, and means for centrally supporting said hub within said annular member and out of contact with said mirror.

1,384,295. ELECTRIC REPRODUCER FOR PHONOGRAPHS. HENRI ARMAGNAT and PIERRE PERLY, Paris, France. Filed May 19, 1919. Serial No. 298,185. 3 Claims. (Cl. 179—100.1.)



1. In a phonograph, a stylus-carrying arm for coaction with a disk, a magnetic blade having an extremity secured to said arm, a permanent magnet secured to the free end of the said blade and arranged with its poles in juxtaposition with said blade, and a spool having a hollow hub in which said blade oscillates transversely and thereby creates an electromotive force to transmit to a distance the sounds registered by the disk.

1,384,296. SPRAYING DEVICE. HENRY C. BAUMGARDNER, Ann Arbor, Mich. Filed May 14, 1920. Serial No. 381,242. 1 Claim. (Cl. 299—92.)



A spray device of the class described comprising a casing, a removable cover therefor, a collapsible container within the casing, a screw threaded filling spout secured to the container and passing through the cover, nuts for holding the spout to said cover, a cap for closing the spout, a nozzle connected with the spout and a pressure gage connected with the spout.

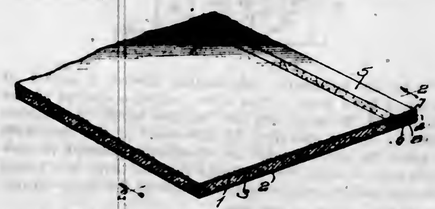
1,384,297. DRILL. HENRI BERNAY, San Francisco, Calif., assignor to Fred W. Thurston, San Francisco, Calif. Filed Apr. 5, 1920. Serial No. 371,741. 27 Claims. (Cl. 255—64.)

1. A drill comprising a stock having oppositely inclined slots therein on opposite sides of the axis of said stock; and bevel-edged bits removably mounted within the slots, the outer beveled surfaces being of greater area than the inner beveled surfaces whereby a pressure applied to the



cutting edges of said bits will tend to move said cutting edges toward the axis of the stock.

1,384,298. PLASTER-BOARD. CHARLES R. BIRDSEY, Hinsdale, Ill., assignor to United States Gypsum Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 19, 1920. Serial No. 404,670. 4 Claims. (Cl. 154—45.9.)



1. A plaster board comprising a plaster body and opposed sheets of fibrous material adhering to and forming a covering for said plaster body, one of said sheets being wider than the opposed sheet and inclosing the edges of the plaster body and overlapping the marginal parts of the other sheet, the said other sheet having its marginal parts depressed below said overlapping marginal parts of the opposed sheet with a substantial plaster layer interposed between the adjacent parts of the overlapping and underlapping marginal parts of said sheets.

1,384,299. BRACE OR SUPPORT. HUBARD BROWN, Buford, Ga. Filed Feb. 7, 1920. Serial No. 356,886. 1 Claim. (Cl. 2—93.)



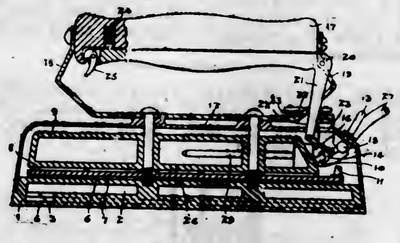
In a brace of the character described, stays, means for attaching the stays to the legs of a user, plates pivotally connected at the upper ends of the stays and having projections below the pivots, rigid members attached to the said plates, body encircling members carried by the rigid members, means for limiting the movement of the rigid members with relation to the stays, and springs connected to the ends of the plates and to the stays.

1,384,300. BICYCLE SIDE CAR. GEORGE GARDNER BUCKLAND, San Francisco, Calif. Filed Aug. 5, 1920. Serial No. 401,517. 3 Claims. (Cl. 208—45.)



1. A side car attachment for bicycles or motorcycles consisting of a wheel bolted within a substantially U-shaped inverted yoke, the yoke being in turn bolted to a horizontal laminated spring load carrying frame set at a right angle to the bicycle frame, the inner end of said spring frame being adjustably bolted to the vertical limb of a right angle spring attaching frame mounted within and clipped to the rear bicycle forks and frame.

1,384,301. PRESSING-IRON. SAMUEL G. BUSKARD, Hamilton, Ontario, Canada, assignor to The Manutil Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Aug. 19, 1919. Serial No. 318,525. 6 Claims. (Cl. 68—26.)

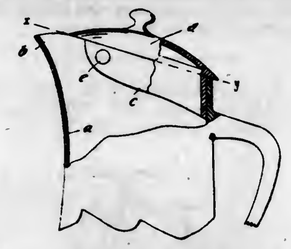


1. A pressing iron comprising, a base having steam passages leading to the face, a two element electric heater secured to said base, a hollow casing secured against said heater, means for conducting steam from said hollow casing to said steam passages, and means for directing electric current to either element of said heater.

1,384,302. COVERED HOLLOW WARE. CHARLES CLARKE-BRUFF, Coalport, England. Filed July 9, 1920. Serial No. 395,084. 4 Claims. (Cl. 65—31.)

1. In a covered vessel of the type described, in combination, a vessel component, a loose removable cover component, said cover component having a rigid verge the back of which is adapted to bear against the interior of the neck of the vessel to counter a tilting movement of said cover component toward the pouring side of the vessel, and said components, on the pouring side thereof, having

corresponding plain faced wall parts with appertaining intermediate elastic means as local friction grips on one



component for frictionally reacting with the other component to form a plain face friction grip lock.

1,384,303. SPECTACLE-FRAME. STEPHEN J. CLULEE, Attleboro, Mass., assignor to Bay State Optical Company, a Corporation of Maine. Filed Nov. 8, 1920. Serial No. 422,440. 5 Claims. (Cl. 88—53.)



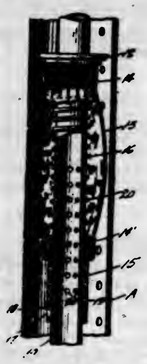
1. In spectacles of the type set forth, a non metallic frame comprising a body and ears supported by the body provided with openings, metallic tubes in the openings, metallic pivot members extending through the tubes, and temples mounted on the pivot members.

1,384,304. SPRAY. FRANK C. COOK, Washington, D. C. Filed Dec. 15, 1920. Serial No. 431,044. 2 Claims. (Cl. 167—6.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A spray composed of a mixture of a solution of sulfate of copper and a solution of barium hydroxid.

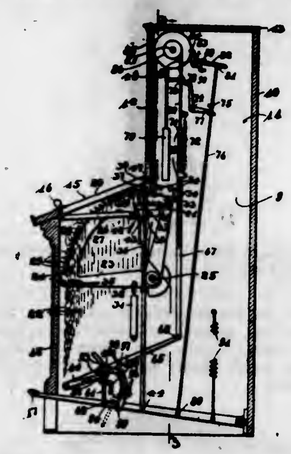
2. As a new product a barium water spray consisting of a mixing of a solution of copper salt and a solution of barium salt.

1,384,305. WELL-WASHER. FRANK E. CROTTO, Dallas, Tex., assignor to Robert T. Meador, trustee, Dallas, Tex. Filed Jan. 29, 1921. Serial No. 404,849. 5 Claims. (Cl. 166—20.)



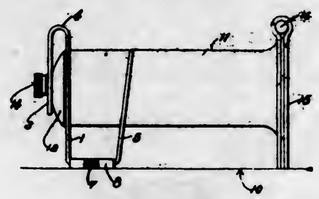
1. In a well washer, a pipe, a flexible sleeve surrounding the pipe and having one end fastened thereto, and a valve slidable on the pipe and connected with the sleeve, the pipe being perforated within the sleeve and also within the valve, said valve uncovering the perforation when slid.

1,384,306. AUTOMATIC INFORMATION DEVICE. WILLIAM C. CUTLER, North Glendale, Calif. Filed Feb. 3, 1921. Serial No. 442,243. 10 Claims. (Cl. 40—65.)



1. In an automatic information device, a series of tables, a hand lever, a foot lever, means operative by the hand lever to move any one of the tables to selective position, means operative by movement of the foot lever to move the selected table out of selective position to view position, and means for retaining the foot lever in a locked position until released by the action of the table returning to said selective position.

1,384,307. PASTE-DISPENSING DEVICE. WILLIAM A. DANIEL, Earl, Ark. Filed July 28, 1920. Serial No. 398,422. 2 Claims. (Cl. 248—20.)



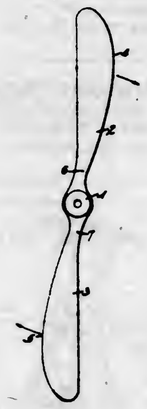
1. In a device for dispensing paste from flexible tubes, a holder comprising tube-gripping forward arms merging into a loop-shaped head forming an abutment for the forward end of the tube, the forward arms being prolonged to form rear tube-gripping arms; and a base, the holder being connected to the base between the forward and rear arms.

1,384,308. AIRPLANE-SCREW. CLARENCE A. DE GIERS, Keyport, N. J., assignor to William Hendry Barker, New Brighton, N. Y. Filed Oct. 23, 1917. Serial No. 198,017. 7 Claims. (Cl. 170—159.)

1. An aeronautical propeller, consisting of a complete finished structure comprising a "fillet" completely inclosed in a shell of vulcanised material.

2. An aeronautical propeller, consisting of a complete finished structure comprising a "fillet" completely inclosed in a shell of vulcanisable material and means permitting portions of the vulcanized material to become embedded in the "fillet" for securing such material and the "fillet."

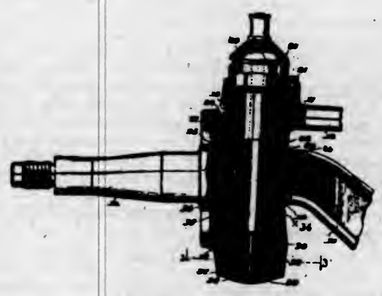
3. A propeller formed as a complete structure from a vulcanisable material vulcanized about a fillet, said fillet having the general contour of the finished propeller and provided with openings, said vulcanisable material extending through said openings to form areas of homogeneous material through the finished propeller.



4. A complete propeller consisting of a fillet having the general outlines of the finished propeller and a vulcanisable covering surrounding said fillet and vulcanised thereupon and joined at intermediate points through said fillet, the fillet having openings to permit the passage of the vulcanisable material.

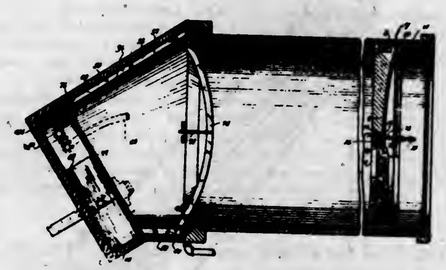
5. A propeller consisting of a fillet having the general contour of the finished propeller, and laminæ of vulcanisable material completely inclosing said fillet and vulcanized thereto and therethrough.

1,384,309. MOTOR-VEHICLE. FRANK J. DRUAR, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Feb. 10, 1919. Serial No. 275,941. 6 Claims. (Cl. 280—96.1.)



1. A steering knuckle having a spindle knuckle member, an axle, a pivot pin, an oil retaining cup mounted between the pin and knuckle member and having a supporting flange engaging the upper surface of said member, a flange extending longitudinally of the cup from said supporting flange, said axle being grooved to receive said second flange.

1,384,310. MACHINE FOR DISPENSING SEMISOLID SUBSTANCES. JOHN E. DUNGAN, Canton, Ohio, assignor, by direct and mesne assignments, of seven-sixteenths to Walter S. Bryson, one-sixteenth to Benjamin F. Bone, one-sixteenth to Frank M. Howard, one-sixteenth to James A. Schaub, one-sixteenth to Allen C. Scroggins, Jr., one-sixteenth to H. J. Zink, and one-sixteenth to Everett E. Koonts, Moundsville, W. Va. Filed Nov. 15, 1919. Serial No. 338,160. 21 Claims. (Cl. 107—14.)



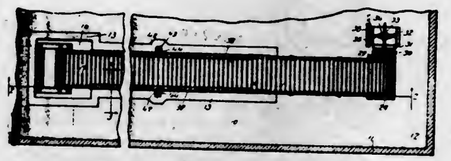
1. A machine for dispensing semi-solid substances including a container open at one end, a cut off plate normally closing the open end of the container and a fluid pressure operated piston within the container for forcing the contents from the container when the cut off plate is opened.

4. A machine for dispensing semi-solid substances including a cylinder, a fluid pressure operated piston for forcing the contents from the cylinder, a cooling coil, and means for admitting fluid under pressure through said coil to the cylinder.

10. A machine for dispensing frozen substances including a cylinder surrounded by a cooling chamber and provided with a discharge opening, a plunger located in the cylinder and a fibrous lubricating ring located around the periphery of the plunger and adapted to lubricate the interior of the cylinder to prevent frost from forming directly upon the interior walls of the cylinder.

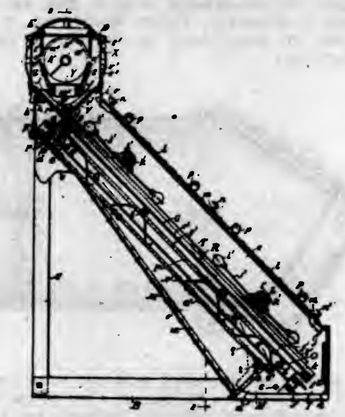
11. A machine for dispensing semi-solid substances including a cylinder, a fluid pressure operated piston for forcing the contents from the cylinder and means for cooling the fluid before it is admitted to the cylinder.

1,384,311. COOLING-TANK. HERBERT C. FOLLINGER, Chicago, Ill., assignor to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed June 10, 1919. Serial No. 303,223. 4 Claims. (Cl. 198—4.)



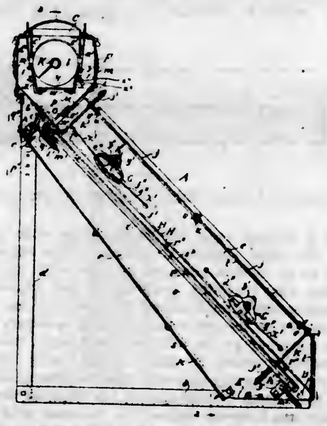
1. In a cooling tank, the combination with a trough having the sides slightly overhanging the edges of the bottom, of an endless conveyer therein with its edges on its upper run traveling underneath and adjacent said overhanging sides, longitudinal supports for the edges of said conveyer on its upper run, rotating members supporting the conveyer at the ends of the trough, one of said members being above the plane of the top of the trough, means for driving the conveyer, and an abutment on each side of the trough extending over the edges of the belt on its upper run but not beyond the vertical plane of the overhanging sides, and located at the point where the top run of the conveyer turns upward to carry the cans out of the water.

1,384,312. **FEEDER OR REGULATOR FOR SCREENING APPARATUS.** GEORGE HOLT FRASER, Brooklyn, N. Y. Original application filed June 15, 1906, Serial No. 321,856. Renewed Dec. 27, 1915, Serial No. 68,919. Divided and this application filed June 11, 1915. Serial No. 33,464. 3 Claims. (Cl. 83—44.)



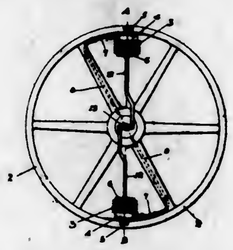
1. In combination, housing means affording an elongated distributing chamber, a reversibly revoluble longitudinally feeding laterally discharging distributing screw conveyer mounted in said chamber, stationary means affording a trough for said conveyer affording a discharge outlet at and extending longitudinally of each side of said conveyer, adjustable means adjustably mounted as to and extending longitudinally of said stationary means for varying said outlets respectively and affording at each side of said conveyer an adjustable discharge edge extending longitudinally of said conveyer and spaced apart from the longitudinal walls of said chamber to afford a passage at each side of said trough for material distributed by said conveyer, and adjusting means for adjusting said adjustable means respectively.

1,384,313. **FEED-REGULATOR FOR SCREENING AND OTHER APPARATUS.** GEORGE HOLT FRASER, Brooklyn, N. Y. Original application filed Dec. 31, 1907, Serial No. 408,772. Divided and this application filed June 11, 1915. Serial No. 33,465. 5 Claims. (Cl. 83—44.)
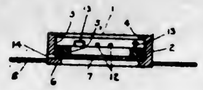


1. In combination, a casing affording an elongated distributing chamber, a trough or member mounted in said casing and having longitudinally extended edges at its front and rear sides opposite and spaced apart from the adjacent walls of said casing and affording downwardly extending conduits or passages between said walls and said trough for material discharged from said trough, a revolving distributer mounted in said trough for discharging material over either edge thereof in a wide thin stream, means exteriorly of said casing for adjusting said trough, and means for revolving said distributer in either direction for discharging material into either one or the other of said conduits according to the direction of revolution of said distributer.

1,384,314. SPEED-RESPONSIVE DEVICE. WESTON M. FULTON, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Sept. 5, 1916. Serial No. 118,540. 19 Claims. (Cl. 264—19.)



1. In combination with means to be controlled, a rotary member, a weight mounted thereon to move in response to centrifugal force, means on said rotary member maintaining a fluid in direct operative relation to said weight whereby movement of said weight directly varies the pressure on said fluid, and connections for transmitting the pressure on said fluid to said means to be controlled.

1,384,315. MOUTHPIECE FOR LIQUID-RECEPTACLES. SPIRO DENIS GARRIS, Calcutta, British India. Filed Oct. 27, 1920. Serial No. 420,001. 4 Claims. (Cl. 220—39.)



1. A mouthpiece with means for closing the same adapted for use with receptacles for holding liquids, characterized by having an internally screwed cylindrical part, a fastening ring adapted to engage such internal screw thread, an inwardly projecting flange on the outer or exterior end of the cylindrical portion to prevent removal of the fastening ring, an inwardly projecting flange at the inner or interior end of the cylindrical part adapted to form a shoulder against which the fastening ring may compress and hold a closing disk, and a closing disk of suitable material.

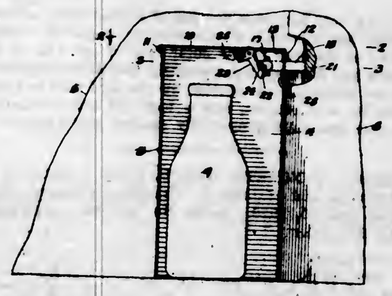
1,384,316. METAL TIE. NATHANIEL O. GOLDSMITH, Norwood, Ohio, assignor to The Weir Frog Company, Norwood, Ohio, a Corporation of Ohio. Filed Apr. 18, 1919. Serial No. 291,052. 1 Claim. (Cl. 238—51.)

In a metal tie, the combination with a rail supporting member having means at its end for engaging the outer flange of a rail base, and a clamping member pivotally mounted on the supporting member and having a shoulder formed on a cam curve to abut tightly against the edge of a rail flange upon driving of the member into place, and a terminal piece shaped to overlie the inner rail base



flange and likewise cam-curved at the end, said terminal piece being thickened at the portion thereof located away from the rail when the clamping member is open.

1,384,317. THEFTPROOF RECEIVER-BOX. HONORÉ HANNOTTE, Morsemere, N. J., assignor to Louis Wilke, Morsemere, N. J. Filed July 17, 1920. Serial No. 396,909. 10 Claims. (Cl. 232—42.)



1. A receiver box of the class described provided with a closure member and a lock mechanism for said closure member, said lock mechanism being provided with a part adapted to be placed between a door and the door frame thereof when the door is in its closed position for retaining the lock mechanism in its operative position.

1,384,318. PROCESS OF MAKING BUTTER. WILFRID PAUL HEATH, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 350,949. 4 Claims. (Cl. 99—8.)

1. The improvement in the process of manufacturing butter, which consists in confining the cream in a suitable churn, injecting a sterile gas into said churn, and thereby expelling the air therefrom, and creating in the churn an atmosphere of sterile gas, and agitating or stirring said cream while confined in said gaseous atmosphere, thereby causing the gas to be incorporated in the resulting butter.

4. The improvement in the process of manufacturing butter which consists in confining the cream in a suitable churn, injecting carbon dioxid gas into the lower part of the mass of cream whereby the gas will pass up through said cream and expel the air therefrom and from said churn, creating, in the churn, an atmosphere of carbon dioxid gas, and agitating or stirring said cream while confined in said gaseous atmosphere, thereby causing the gas to be incorporated in the resulting butter.

1,384,319. PROCESS OF MANUFACTURING CANDY. WILFRID PAUL HEATH, Chicago, Ill. Filed Jan. 12, 1920. Serial No. 350,950. 2 Claims. (Cl. 99—8.)

2. The process of manufacturing candy which consists in confining the candy mixture, while in a liquid or semi-liquid condition, in a suitable container, injecting carbon dioxid into said container, and thereby driving the air therefrom, agitating or stirring said candy mixture to incorporate the gas into said mixture, and thereby reducing the specific gravity of said mixture and imparting a gaseous flavor thereto.

1,384,320. PASTE BAIT. JOHN M. HICKSON and DONALD A. YOUNG, Portland, Oreg. Filed Sept. 27, 1919. Serial No. 326,906. 4 Claims. (Cl. 99—11.)

2. A composition bait consisting of one hundred pounds of fresh salmon eggs previously treated with five pounds of common salt in combination with one-half pound of saltpeter and three pounds of sugar.

3. A method for converting salmon roe into a permanent, attractive, soluble paste bait consisting of treating fresh salmon roe with common salt until the cellular coverings have been weakened and the surplus moisture extracted, then removing as much more moisture as is possible with moderate pressure, then sweetening, curing and preserving the bait in a paste or putty-like form.

1,384,321. IGNITION DEVICE FOR INTERNAL-COMBUSTION MOTORS. LEON F. HOFFMAN, Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 23, 1920. Serial No. 375,985. 5 Claims. (Cl. 123—145.)

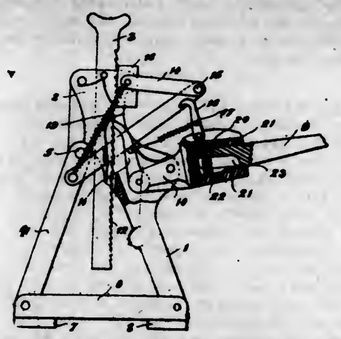


1. The combination with the combustion chamber of an internal combustion motor, of an ignition device carried within the walls of said chamber adapted to be operatively positioned with said chamber and withdrawn to an inoperative position without said chamber at will, and means for locking said device in both said positions.

1,384,322. LIFTING-JACK. CHARLES ALLAN JONES, Gloucester, England. Filed Dec. 29, 1919. Serial No. 348,068. 3 Claims. (Cl. 254—106.)

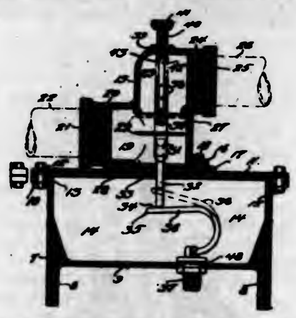
1. In a lifting jack, a base, a rigid leg pivotally connected at its lower end to the base, a lifting bar slidable vertically in the upper portion of the rigid leg and having ratchet teeth, a second leg having its upper end pivotally connected to the rigid leg, its lower end pivotally connected to the base and provided with an articulation at a

point intermediate its ends, a lever pivotally connected to the rigid leg, a pawl mounted on the lever and arranged



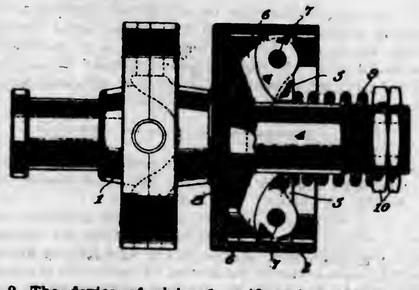
to engage the ratchet teeth of the lifting bar, and means, operable by said lever to bend or straighten the second leg.

1,384,323. AUTOMATIC GAS-REGULATOR. WILLIAM KANN, Philadelphia, Pa. Filed May 15, 1920. Serial No. 381,602. 8 Claims. (Cl. 236—26.)



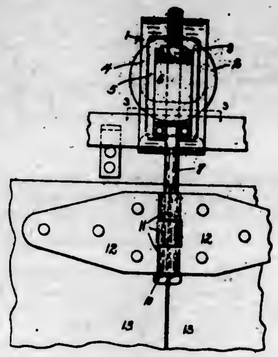
2. A regulator of the character described including a valve casing having two communicating compartments and a portion providing a ledge surrounding the communicating portions of said compartments; a valve movable toward and from said ledge, said valve having a stem; an adjusting screw in screw threaded connection with said valve casing and having a portion in sliding connection with said valve stem; and means automatically movable to different extents due to variation in fluid pressure and adapted to move said valve toward said ledge; substantially as described.

1,384,324. CLUTCH. THOMAS J. KELLY, Ashkum, Ill. Filed June 5, 1920. Serial No. 386,740. 2 Claims. (Cl. 64—106.)



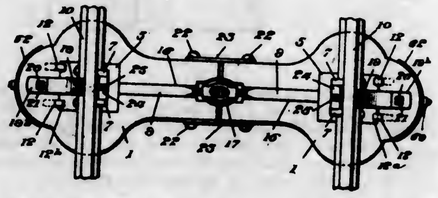
2. The device of claim 1, said spring being coaxial with said second shaft.

1,384,325. DOOR-HANGER. LEO KULBS, Mount Washington, Pa. Filed Aug. 23, 1920. Serial No. 405,380. 6 Claims. (Cl. 16—7.)



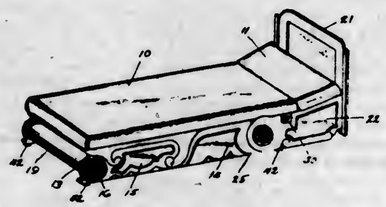
4. In a door hanger, a housing of substantially inverted U-shape, and a bracket of substantially elongated U-shape secured at its ends to the outer face of one arm of the housing and disposed longitudinally thereof, a suspending bolt, an adjusting nut carried by the said bolt and supported by said bracket, and a lock nut also carried by said bolt and bearing upwardly against said bracket.

1,384,326. CONCRETE RAILWAY-TIE. WILLIAM J. LANKFORD and WALTER H. CHAPPELL, Chanute, Kans. Filed Oct. 30, 1920. Serial No. 420,605. 10 Claims. (Cl. 238—81.)



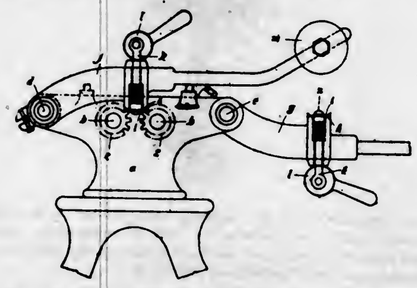
1. In a concrete railway tie, two body sections, means for holding said sections in endwise relation, the said means including a longitudinal connecting bar having at the opposite ends clamping members for engaging the outer flanges of the rail bases mounted thereon, and other means embedded in each body section for clamping the inner flanges of the rails mounted thereon.

1,384,327. CONVERTIBLE FURNITURE. PETER LINDBO, Chicago, Ill. Filed Sept. 24, 1920. Serial No. 412,515. 6 Claims. (Cl. 155—41.)



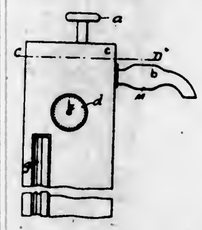
1. A couch comprising a top consisting of a main body section and a separate head section, the main body section having depending side walls, a base frame to which said side walls are pivotally connected to permit the main body section to be swung to upright position and serve as a chair back, the side walls forming arm rests, a seat adapted to be associated with said chair back and the arm rests, and detachable and separate therefrom, and a frame on which the aforesaid head section is detachably supported, said frame being pivotally connected to the head end of the base frame and having side pieces forming extensions of the aforesaid side walls, said frame also having an upstanding end wall and being adjustable to place said end wall in horisontal position to serve as a table top.

1,384,328. DOUBLE-ACTING MACHINE FOR CUTTING THE TEETH IN SAFETY-RAZOR GUARDS. ROBERT MIDDELDORF, Solingen, Germany. Filed Nov. 13, 1919. Serial No. 337,891. 1 Claim. (Cl. 90—18.)



In a double-acting machine for cutting the teeth in guards of safety-razors having two cutting-edges, in combination, two pairs of cutters, and two counterweighted levers for the reception of said guards located to bring two guards with their longitudinal edges successively one within reach of one pair and the other within reach of the other pair of cutters, substantially as and for the purpose set forth.

1,384,329. WATER-METER. KATSUKICHI MORI, Tokyo, Japan. Filed Jan. 24, 1917. Serial No. 144,114. 4 Claims. (Cl. 73—167.)



1. A method of discharging a constant proportionate quantity of fluid from a pipe which consists in creating back pressure of the fluid in the pipe and then discharging a portion of the fluid from the pipe at the point at which the back pressure is created.

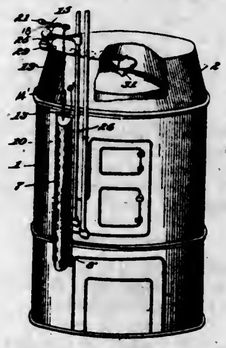
1,384,330. HAMMERING-HANDLE WITH INTERCHANGEABLE TOOLS. JAMES WINFIELD MOSHIER, Bristol, Conn., assignor to The Wallace Barnes Company, Bristol, Conn., a Corporation. Filed Feb. 3, 1921. Serial No. 442,192. 2 Claims. (Cl. 145—61.)

1. The combination with a hammering-handle having a longitudinal chamber closed at its outer end and having a throat intersecting the inner end of the said chamber and smaller in cross-section than the same; of a removable tool the shank of which is adapted in cross-section to freely reciprocate in the said chamber and throat, and a pair of outwardly-bowed retaining-springs applied to the outer end of the tool-shank and adapted, when compressed, to



pass in either direction through the said throat of the handle but normally clearing the side walls of the said chamber therein to permit the relative longitudinal movement of the handle and tool without friction.

1,384,331. AIR-MOISTENER FOR HOT-AIR FURNACES. BERNHARD A. MUELLER, East St. Louis, Ill. Filed Aug. 23, 1919, Serial No. 319,425. Renewed May 26, 1921. Serial No. 472,886. 6 Claims. (Cl. 126—113.)

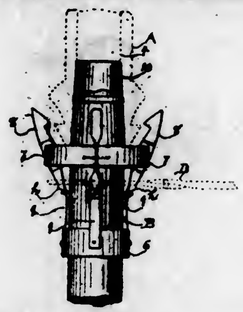


2. The combination with a hot air furnace having upper and lower openings in one side, of a tube or flue secured to the side of the casing and communicating at its upper and lower portions with said openings, an atmospherically controlled bar within said tube or flue and secured at its lower end to the bottom of the flue, a rod extending from the bar through the top of the flue or tube, a water supply valve to which the upper end of the rod is connected, and a trough leading from the discharge side of the valve into the hot air chamber.

1,384,332. HOSE-COUPLING. BAISCO J. MULLENUX, Afton, N. Y. Filed Sept. 25, 1920. Serial No. 412,875. 1 Claim. (Cl. 285—172.)

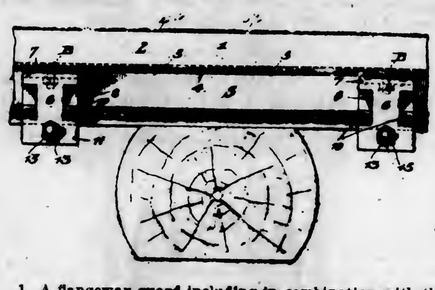
In a hose coupling, the combination of a tube having an undercut annular shoulder thereon, and a tapered socket in one end thereof with a tube having a tapered end, and a resilient cover thereon, adapted to engage with the tapered socket of the opposite tube end, a channel inlet in said covering, a resilient ring mounted therein, a

collar on said tube, pawl levers pivotally mounted in said collar, adapted to yieldingly engage said shoulder, a hand



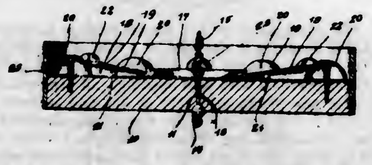
spring supporting each lever in engagement with the shoulder, a lug projecting from the lower outer surface of each lever.

1,384,333. FLANGEWAY-GUARD. JOHN WILSON OSBOCK, Westmount, Quebec, Canada. Filed Sept. 8, 1920. Serial No. 409,625. 12 Claims. (Cl. 238—8.)



1. A flangeway guard including in combination with the rail, a channeled guard member offset from the gage side of the rail and having an engagement beneath the head thereof, and a supporting member fastened to the rail base and arranged to sustain the guard member in position.

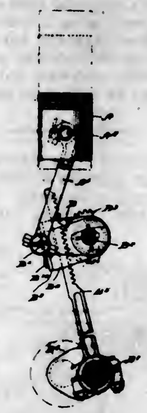
1,384,334. SOUNDING-TOY WHEEL. GUIDO PITONI, Rochester, N. Y. Filed May 29, 1920. Serial No. 385,253. 3 Claims. (Cl. 46—47.)



2. A toy comprising a wheel, a plurality of radially arranged tubes carried by the wheel, a sound element located at the outer ends of each of the tubes and movable elements within the tubes and adapted to contact with the sound element when the wheel is rotated.

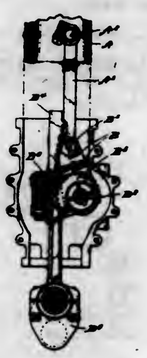
1,384,335. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,168. 4 Claims. (Cl. 74—14.)

2. In a transmission member, the combination of an engine, a piston in said engine, a lever pivoted in relation to said engine, means for connecting said piston to said lever, a pinion having a pitch diameter different from the length of said lever, means for moving the lever and pinion



synchronously, a rack engaging said pinion, a pivoted slidable guide for holding the rock in engagement with said pinion, and a power shaft rotatable by the movement of said rack, substantially as described.

1,384,336. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,170. 4 Claims. (Cl. 74—14.)



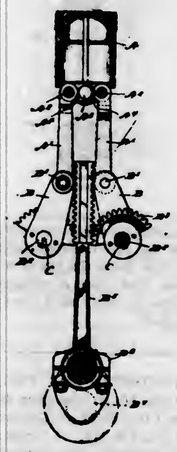
1. In an engine, the combination of a piston, a link from said piston, a supporting pin, a lever on said pin, means connecting said lever with said link, a segmental pinion having a pitch curve of varying distance from the axis of rotation mounted on said pin and rotatable with said lever, a toothed connecting rod the teeth of which engage the teeth of said segmental pinion, means by which the pitch line of the teeth of said toothed connecting rod will vary with the variations of the pitch line of the teeth of the meshing segmental pinion, a pivoted oscillating member whereby the teeth of the said toothed connecting rod will maintain engagement between the said meshing members, a crank, means for connecting said rod with said crank, and a shaft to which said crank is connected, substantially as described.

1,384,337. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,171. 4 Claims. (Cl. 74—14.)



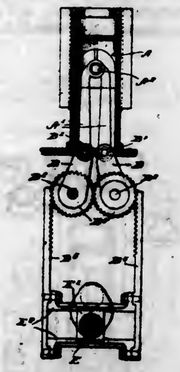
2. In a transmission for engines, the combination of variably moving pistons, one slidable in the other, cranks, connecting links from one piston to said cranks, pins supporting said cranks, segmental pinions on said pins rotatable with said cranks, a rack, a rod from a second piston connecting with the said rack the teeth of which engage the teeth of said segmental pinions, a cross-head connected with said rack, crosshead guides, a crank, a connecting rod from the crosshead to said crank, power means for operating said primary piston, and an opening in the secondary piston to govern compression and vacuum between said pistons, substantially as described.

1,384,338. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,172. 2 Claims. (Cl. 74—14.)



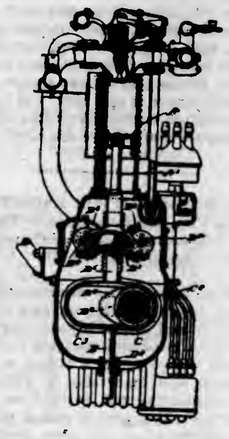
1. In a differential transmission member, the combination of a piston, lugs on said piston, a bar pivoted on said lugs, supporting pins, levers mounted on said pins, pins in said levers, links from the said bar to the said last mentioned pins, segmental pinions eccentrically mounted on the said supporting pins, a crank shaft, a crank, a connecting rod, racks on said connecting rod, and means whereby the said racks engage the said eccentrically mounted pinions, for the purpose herein described.

1,384,339. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,173. 1 Claim. (Cl. 74—14.)



In a transmission member, the combination of a piston, links hung from said piston, oppositely placed pins carrying pinions and levers arranged to rotate on said pins, said pinions meshing with each other; pins in said levers engaging the before mentioned links, vertically disposed racks meshing with the said pinions, bars holding the said racks, the said bars composing a crosshead guide, a crosshead block operating in crosshead, a wrist pin in said block, a crank, and means for connecting said wrist pin to said crank, for the purpose hereinbefore described.

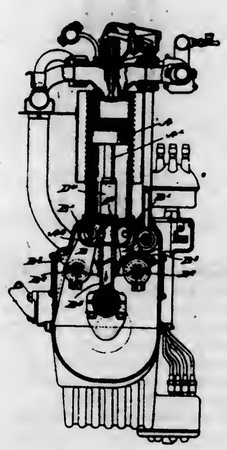
1,384,340. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,174. 1 Claim. (Cl. 74—14.)



In a transmitting member, the combination of a slotted crosshead guide, a crosshead moving therein, an engine

crank, a pin from said crosshead to said engine crank, a vertical toothed bar from said crosshead guide, pinions meshing with said toothed bar, rotatable pins supporting said pinions, levers mounted on said pins and rotatable with the said levers, rollers on said levers, slotted forks engaging said rollers, a yoke supporting said forks, a bar supporting said yoke, an engine piston, and means for attaching said bar to said piston, in the manner and for the purpose hereinbefore described.

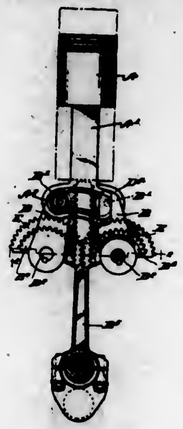
1,384,341. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,175. 1 Claim. (Cl. 74—14.)



In a differential transmission member, the combination of pins, rocking levers mounted on said pins, segmental pinions eccentrically mounted on said pins and rotatable with said levers, eccentric rollers on said levers, slotted forks engaging said eccentric rollers, a yoke supporting said forks, a bar extending from said yoke, a piston, means of attaching the bar to said piston, a rack, a crank connecting rod forming part of said rack, and means whereby the teeth of the before mentioned pinions mesh with said rack, for the purpose hereinbefore described.

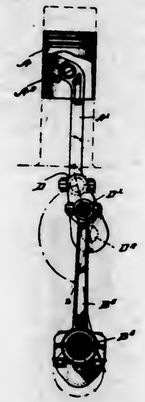
1,384,342. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,176. 1 Claim. (Cl. 74—14.)

In a differential transmission member, the combination of pins, rocking levers mounted on said pins and keyed thereto, rollers on said levers, a yoke, slotted forks supported by said yoke, means for engaging the said rollers in the slots of said slotted forks, a piston, a bar extending to to said piston and connecting it with said yoke, a vertical crank connecting rod, toothed on opposite sides and passing between said pins, a pinion mounted on and keyed to one of the pins, the teeth meshing with the teeth on the vertical connecting rod, a loose pinion mounted opposite to the before mentioned pinion and meshing with the teeth on the vertical connecting rod, segmental pinions on said pins, meshing with each other, and a



wrist pin holding the crank rod to the crank of an engine shaft, as hereinbefore described.

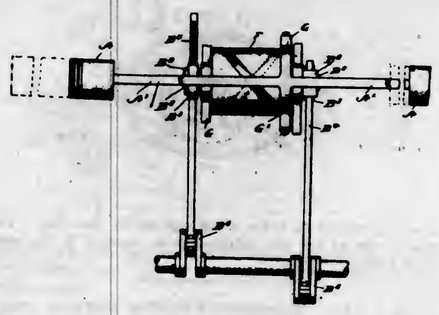
1,384,343. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,177. 1 Claim. (Cl. 74—14.)



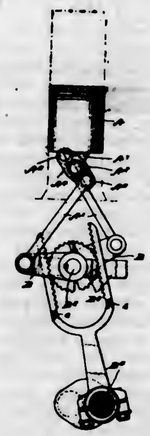
In a differential transmission member, the combination of cranks of different pitch, supporting means for said cranks, a piston, a link from the crank of greater throw to said piston, a crank shaft, and a connecting rod from the crank of lesser throw to said crank shaft, for the purpose hereinbefore described.

1,384,344. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,178. 1 Claim. (Cl. 74—14.)

In a differential transmission member, the combination of a cylinder, spiral grooves in the circumferential surface of said cylinder, a supporting shaft revoluble with said cylinder, slidable blocks operable in said grooves, a connecting rod to a source of power and supporting the said blocks, segmental pinions on the cylinder shaft, racks engaging said pinions, movable guides for said racks, and means for connecting said racks to the cranks of a power shaft, substantially as described.



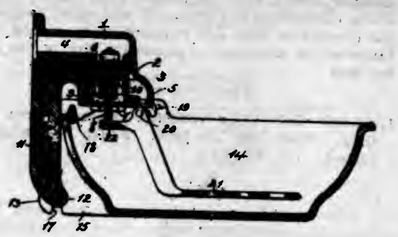
1,384,345. TRANSMISSION FOR ENGINES. ALVAH L. POWELL, Miles City, Mont., assignor to The A. L. Powell Power Co., Miles City, Mont., a Corporation. Filed Dec. 8, 1920. Serial No. 429,179. 1 Claim. (Cl. 74—14.)



In a differential transmission member the combination of supporting shafts, cranks on said shafts, segmental pinions rotatable with said cranks, a yoked connecting rod having racks meshing with the segmental pinions, pins in said cranks, a pivoted movable bar, a piston, a crank on a crank shaft, and means for attaching the yoked connecting rod to the said crank on said crank shaft, substantially as described.

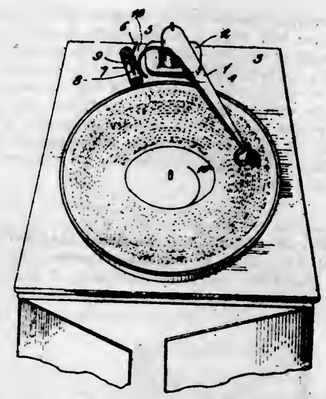
1,384,346. WATERING DEVICE FOR CATTLE. HUGO C. RASSMANN, Beaver Dam, Wis. Filed Apr. 29, 1918. Serial No. 231,464. 4 Claims. (Cl. 119—75.)

1. In a watering device, the combination of a valved fount, a bowl, one of said parts having separated mountings for a lever, an animal-operated lever coöperable with the valve of the valved fount, and means for pivotally supporting said animal-operated lever at either of said separated mountings, whereby said lever may be supported



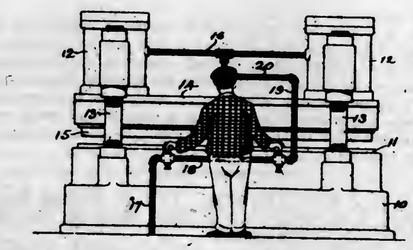
in the bowl in operative relation to the valve of the valved fount or out of operative relation to said valve.

1,384,347. TALKING-MACHINE. HOWARD E. REACH, Los Angeles, Calif., assignor to Thomas R. Barrabee, Los Angeles, Calif. Filed Dec. 27, 1919. Serial No. 347,862. 2 Claims. (Cl. 192—116.)



1. In a phonograph, the combination of a support having a pivotal axis for the tone arm tilted to the vertical, a tone arm swiveled on said support so it will tend to gravitate toward the center of the turntable, and a brake mechanism actuable by the tone arm at a selected point in its movement.

1,384,348. SAFETY DEVICE FOR HYDRAULIC PRESSES. WALTER L. RIEDY, Houghton, Mich. Filed Oct. 25, 1920. Serial No. 419,403. 4 Claims. (Cl. 138—10.)



1. In a hydraulic press, a bed, and a reciprocating head, the latter operated by fluid pressure, and a pipe for

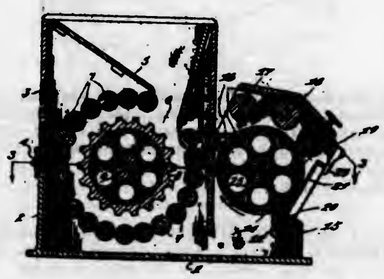
conducting the fluid for operating the said head, in combination with a safety device for controlling the fluid pressure exerted upon the reciprocating head, said safety device comprising two separated stop-cocks coupled into the conducting pipe and required to be turned by the hands of the workman to permit the flow of the operating fluid.

1,384,349. KNITTING-NEEDLE. MARY E. ROSS, Baker, Oreg. Filed Jan. 29, 1920. Serial No. 354,838. 5 Claims. (Cl. 66—17.)



5. A knitting needle having a round shank provided at its working end with a substantially conoidal terminal and formed in one side inwardly of the terminal with a notch of a depth not greater than the radius of the shank and of a width not greater than the diameter of the shank, the wall of the notch next adjacent the terminal of the needle shank being inclined from the bottom of the notch in the direction of the said terminal, this and the bottom wall of the notch forming an angle of not less than ninety degrees.

1,384,350. MACHINE FOR MAKING MACARONI AND NOODLES. STEFANO SANTILLI, Canton, Ohio. Filed July 22, 1920. Serial No. 398,253. 4 Claims. (Cl. 107—20.)



1. A device of the character described comprising a large roll, a plurality of smaller rolls located around a portion of the periphery thereof, means for rotating the large roll in one direction, means for rotating the smaller rolls in the opposite direction to produce a flat sheet of dough, and a screen comprising a plurality of wires cooperating with said large roll to cut the sheet of dough into ribbons.

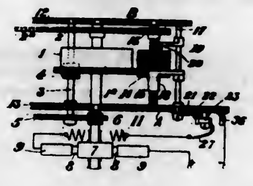
1,384,351. DISPLAY-STAND. CARL G. SATHER, Sioux Falls, S. D. Filed July 26, 1920. Serial No. 398,899. 3 Claims. (Cl. 211—24.)

3. A display stand comprising a standard, a sleeve non-rotatably but vertically movable theeron, a lateral flange carried by the sleeve for detachable connection to the base of a form, a collar fitted on the sleeve, a set-screw passing through the collar and against the sleeve,



and a plurality of brace arms carried by the collar, the lower ends of the arm adapted to be secured to the base of the form.

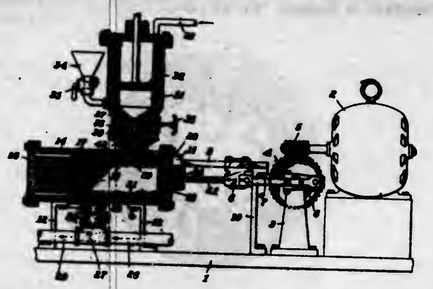
1,384,352. ELECTRIC WINDING DEVICE. FRITS SAUTER, Basel, Switzerland. Filed Dec. 13, 1919. Serial No. 344,590. 2 Claims. (Cl. 58—41.)



1. In electric winding-up devices for clockworks and other mechanisms of this kind, the combination with a motive member for the mechanism of a toothed crown connected therewith, an electric motor for winding-up the motive member, connection means between the electric motor and the toothed crown of the motive member, a rotary screw threaded spindle, means to drive the same from the running mechanism, a toothed pinion screwed upon said screw threaded spindle and arranged to engage the toothed crown of the motive member, said pinion being capable of axial movement along the screw threaded spindle to the one or other side, a rocking shaft parallel to the screw threaded spindle, a three-armed lever system mounted on said rocking shaft and comprising two reversing lever arms arranged respectively on either side of said pinion with means to alternately reverse the same according to whether the pinion travels to the one or other side, and a positioning arm to be positioned by said reversing lever arms, a control lever arranged to be controlled by said positioning arm and means for switching in or out the current supply to said electric motor in dependence of said control lever, substantially as and for the purpose described.
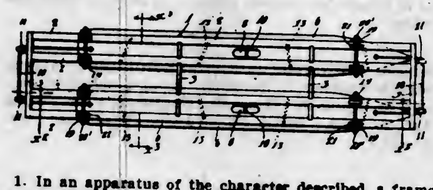
1,384,353. LUBRICATOR. HENRY J. SHAVERS, Goldsboro, N. C. Filed Oct. 16, 1920. Serial No. 417,340. 7 Claims. (Cl. 184—37.)

6. A lubricator for locomotives comprising a base, cylinders mounted on said base, hollow plungers provided with inlet aud outlet ports therein mounted in said cylinders, said cylinders provided with inlet and outlet ports, a reservoir for the lubricant and means therein for exerting pressure on the lubricant, discharge feed extending from said reservoir to the inlet ports in said cylinders, means inserted in the said feed for regulating the amount of feed to said plungers, discharge pipes leading from the outlet ports in said cylinders and provided with check valves, a motor and means connected to said motor and to said plungers for operating the same to draw the lubricant into said plungers and expel the same under pressure to the discharge pipes when the outlet ports in said cylinders



register with the outlets in said hollow plungers, and additional means for forcing the lubricant through the discharge pipes.

1,384,354. APPARATUS FOR WALKING ON THE WATER. ALBERT N. SHELDON, Ventura, Calif. Filed Oct. 18, 1920. Serial No. 417,732. 6 Claims. (Cl. 9—21.)



1. In an apparatus of the character described, a frame, floats beneath the frame, means shiftably supporting the frame on the floats, pulleys on the ends of the frame, and cables fastened at their opposite ends to the respective floats along the center line thereof and engaging the pulleys.

1,384,355. HYPODERMIC NEEDLE. ARTHUR E. SMITH, Chicago, Ill. Filed Jan. 20, 1920. Serial No. 352,712. 7 Claims. (Cl. 128—221.)



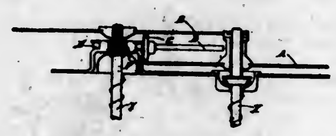
4. A device of the character described comprising a nozzle and a needle attached to said nozzle in combination with a guard attached to said nozzle, said guard comprising a metallic spiral which frictionally engages the said needle.

1,384,356. DISK FOR PEELING-MACHINES. CHARLES F. SMITH, Chicago, Ill., assignor to Maxim Manufacturing Company, a Corporation of Illinois. Filed July 22, 1920. Serial No. 398,291. 5 Claims. (Cl. 146—14.)



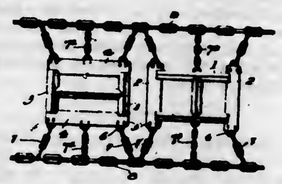
5. A peeling disk having vertical steps upon its upper surface, the circumferential portions between said steps having radial ascents and slopes whereby a swirling motion is adapted to be imparted to a vegetable.

1,384,357. TRANSMISSION-GEAR PROVIDING AUTOMATIC COMPENSATION FOR VARIATIONS IN THE SPEED AND POWER TRANSMITTED. KELVIN TALENT SPENCER, Harmondsworth, and LEONARD GODWIN WILLS, London, England. Filed Nov. 22, 1920. Serial No. 425,875. 6 Claims. (Cl. 74—26.)



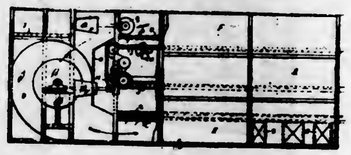
1. In transmission gearing, the combination with the driving and driven shafts having disks thereon, of a spring tensioned frame mounted to swing on an axis coincident with the axis of the driven shaft, and a transmission element slidably carried on said frame and contacting with said disks.

1,384,358. ANTISKID DEVICE FOR AUTO-TIRES. WILLIAM F. STAGGERS, Mannington, W. Va. Filed Dec. 23, 1920. Serial No. 432,669. 1 Claim. (Cl. 152—14.)



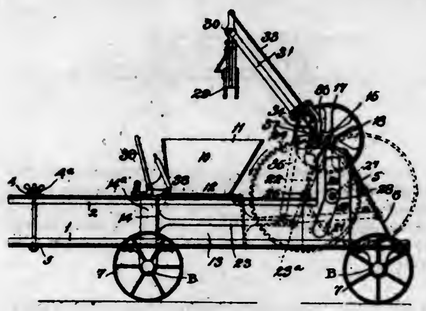
As a new article of manufacture, an anti-skid device consisting of I-shaped anti-skid bars, flat strips formed integrally on the ends of said I-shaped bars, opposite short chains hooked to the ends of said flat strips, rings to which said short chains are attached, and means secured to said rings for removably mounting the said anti-skid bars on and securing them over the tread of the tire.

1,384,359. MACHINE FOR DRYING LEATHER, YARNS, JUTE, AND LIKE MATERIALS. CHARLES STEPHENS, London, England. Filed Nov. 14, 1918. Serial No. 262,626. 2 Claims. (Cl. 34—12.)



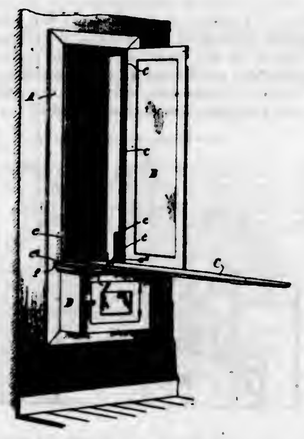
1. A machine of the type described for sammying and drying leather, and for drying yarns, jute, and the like, comprising a long horiontal drying chamber, means for longitudinally traversing the material in forward and return directions through said chamber, an air-pressure inlet duct extending from end to end of said chamber, an air-suction outlet duct extending from end to end along the opposite side of said chamber, two flat sets of steam or other coils interposed between said chamber and said suction and pressure ducts respectively, a fan adapted to create a closed continuous circulation of air passing between said coils and through both lines of material in said chamber, and means for continuous extraction of moisture from the closed circulation of air within said chamber, substantially as herein set forth.

1,384,360. MACHINE FOR TRANSLATING ROTARY INTO RECIPROCATING MOVEMENTS. NORRIS D. STEWART, San Antonio, Tex. Filed July 19, 1917, Serial No. 181,583. Renewed Oct. 15, 1920. Serial No. 417,265. 8 Claims. (Cl. 100—8.)



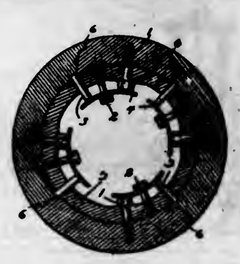
1. The combination with the plunger of power transmitting devices connected to the plunger and comprising a bodily movable wheel rotating around its central axis, a shifting fulcrum moving in synchronism with the bodily movements of the wheel, and means independent of the wheel for resisting the movement of the fulcrum with varying amounts of force.

1,384,361. IRONING-BOARD. EARL M. TRAMMELL and WILLIAM C. CAROTHERS, Waco, Tex. Filed Dec. 27, 1920. Serial No. 433,285. 1 Claim. (Cl. 68—10.)



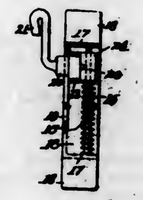
The combination with a cabinet having a horizontal bottom and vertical side walls and having a recess in its back wall and a groove in each side wall near its front and above its bottom, each of said grooves having an upper, straight, vertical portion and a rearwardly curved lower portion terminating above the bottom of the cabinet, and an ironing-board having studs on its opposite sides entering the grooves in the side walls of the cabinet, and a rear portion adapted to enter the recess in the rear wall of the cabinet and to rest on the bottom of the cabinet when the ironing-board is in a horizontal position and also to rest on the bottom of the cabinet when the ironing-board is in a vertical position.

1,384,362. VULCANIZING DEVICE. JOHN TRAUM, Coshocton, Ohio. Filed Mar. 8, 1920. Serial No. 364,240. 4 Claims. (Cl. 18—45.)



1. In an expansible core the combination with sections of expansion springs adapted to impulse the sections, a continuous ring, cap screws adapted to secure the sections to the ring by engaging and extending through radial openings in the ring, and engaging radial threaded openings in the inner periphery of the sections, and by their proper manipulation to control the expansive action of the section, lugs and corresponding recesses in the abutting ends of companion sections adapted to correctly aline the sections.

1,384,363. INDICATOR FOR PLATE-HOLDERS. ALFRED JOSEPH VIGNEAULT, Worcester, Mass., assignor of one-half to George N. Vigneault, Worcester, Mass. Filed Apr. 8, 1920. Serial No. 372,339. 8 Claims. (Cl. 95—71.)



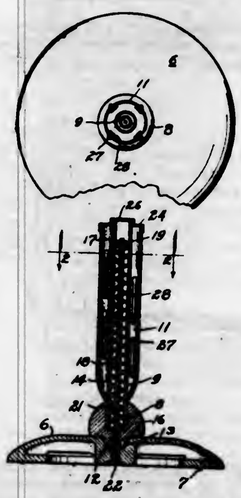
1. The combination with a plate holder and its plate covering slide, of means on the plate holder for locking the slide therein, said means being movable to two positions along the edge of the plate holder and showing by its position along said edge whether the plate covered by said slide has been exposed, said means having an arm pivoted thereon and adapted, in each position, to be turned to lock the slide.

1,384,364. MUSIC-LEAF TURNER. MARCUS A. WALDEN, San Francisco, Calif. Filed Mar. 30, 1920. Serial No. 369,993. 2 Claims. (Cl. 84—505.)



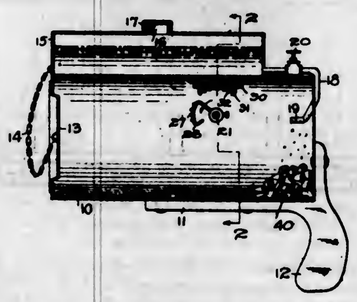
2. A music leaf turner, comprising a base adapted to support sheet music, a plurality of concentric rotary shafts mounted upon said base, a plurality of turning members secured to said shafts, and having their terminal portions disposed beneath the sheets to be turned, a plurality of rocking members mounted on said base and having their terminal portions adapted to engage said terminals when said members are rocked, a plurality of levers pivoted intermediate of their lengths on opposite sides of said shafts, flexible elements connected with certain ends of said levers, crossed and secured at their other ends to said rocking members on opposite sides of said rocking members.

1,384,365. STREET-SEMAPHORE. JOHN M. WALSH, Petaluma, Calif. Filed Apr. 16, 1919. Serial No. 290,527. 3 Claims. (Cl. 40—145.)



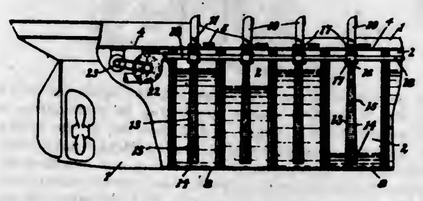
3. A semaphore for street traffic having a base with a central aperture and recess, a ball having a flat face seating on the base and having a centering lug entering the recess, a hollow standard extending from the ball, a flexible device in the aperture of the base and passing through the ball and into the standard, a rod attached to said device and having a plate slidably fitting the standard, and a spring seated in the ball and compressed in the standard between the plate and said ball by said device and rod to maintain the standard upright and the ball seated flat on the base.

1,384,366. GAS-GUN. EDWARD P. WELCH, Wilsonville, Conn. Filed Dec. 13, 1920. Serial No. 430,870. 7 Claims. (Cl. 89—7.)



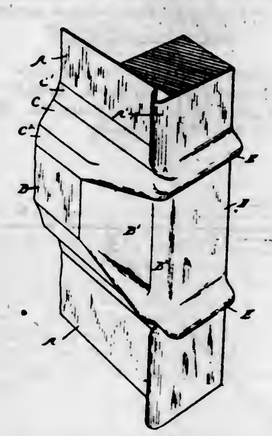
5. In an acetylene gas gun, the combination of a casing for holding a charge of calcium carbid, a handle connected with the casing for supporting it, means for introducing drops of water into the casing on the carbid, a shaft extending through the casing and supported at its opposite ends thereby, a crank on the shaft outside the casing, a piece of steel yieldingly mounted on the shaft and provided with teeth on the surface concentrically arranged, and a piece of flint mounted in the casing and having teeth thereon concentrically arranged with respect to the shaft, to permit of the steel engaging the teeth of the flint as it rotates and passes along its toothed surface.

1,384,367. METHOD AND APPARATUS FOR CONTROLLING THE CONDITION OF AIR IN COMPARTMENTS. WILLIAM B. SMITH WHALEY, Malden, Mass., assignor to American Whaley Engine Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 4, 1916. Serial No. 134,900. 9 Claims. (Cl. 98—27.)



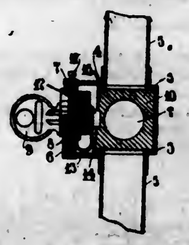
7. An air-scavenging device for variably supplied matter-storing-compartments, consisting of an upright and tapered air supply member having the top and smaller end thereof open to atmosphere, said tapered member projecting into the compartment proper and provided with perforations communicating with the interior of said compartment, said perforations increasing in size with the length of projection of said air supply member; a similarly tapered and perforated upright draw-off member also communicating with the interior of said compartment and provided with an outlet at the top and smaller end thereof projecting through said compartment; and a suction member coupled with the outlet of said draw-off member and adapted to draw contaminated air from the unoccupied space of said compartment and to discharge the same therefrom.

1,384,368. CAR-END CONSTRUCTION. FREDERICK M. WHYTE, Tarrytown, N. Y. Filed Oct. 8, 1919. Serial No. 329,226. 13 Claims. (Cl. 105—410.)



2. A fashioned metal plate of a form which can be developed from a plane sheet without material drawing or stretching of the metal, said plate having portions lying in spaced parallel planes, and an end portion lying in a plane transverse to said parallel planes.

1,384,369. VALVE OPERATING AND LOCKING DEVICE. WILLIAM GEORGE WIBBENBS, Sydney, New South Wales, Australia. Filed June 23, 1919. Serial No. 306,146. 2 Claims. (Cl. 251—6.)



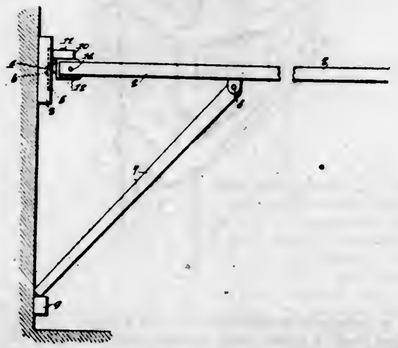
1. A locking device for controlling the operation of an internal combustion engine comprising in combination a fuel supply pipe, a sealed casing inserted in the piping and having a conoidal seating, a cylindrical rotary valve in the casing with a conoidal portion at one end that engages the seating of the casing and means which both presses the valve upon its seating and indicates its position when in the open and closed positions.

1,384,370. TIE-FRAME. SAMUEL WILLIAMSON, Leeds, England. Filed July 24, 1919. Serial No. 313,080. 1 Claim. (Cl. 2—84.)



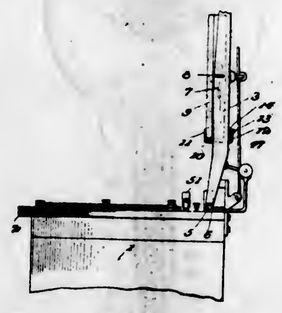
An improved neck tie frame comprising in combination an approximately crescent shaped plate having wings designed to engage the ends of two strips, a U-shaped loop at the back of the plate and fixed centrally thereof and designed to engage one of the strips when both are knotted to form a tie, and a pin carried by the loop and extending rearwardly thereof and adapted for detachable engagement with a stud, as and for the purpose specified.

1,384,371. IRONING-BOARD CONNECTION. CHARLES EARNEST WINTEMUTE, Vancouver, British Columbia, Canada. Filed July 1, 1920. Serial No. 393,441. 2 Claims. (Cl. 68—10.)



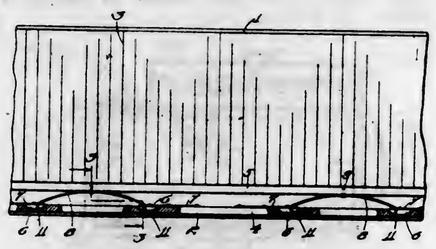
1. An ironing board connection, comprising the combination with an ironing board, of hooks secured to and projecting from its larger end, the points of said hooks being directed toward the board, plates secured to the wall, which plates have provision to engage the hooks of the ironing board, a strut hinged to the under side of the board supporting it in a substantially horizontal position, and an eccentric pivotally mounted adjacent each hook member and designed to bear against the wall plates and retain the hooks in engagement therewith.

1,384,372. PHOTOGRAPHIC-PRINTING MACHINE. WILLIAM D. WOOD, Seattle, Wash. Filed Aug. 26, 1920. Serial No. 406,084. 1 Claim. (Cl. 95—73.)



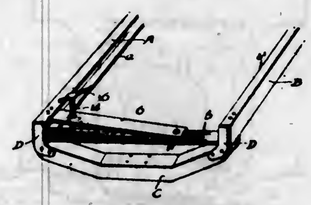
In a photographic printing machine, a base having a source of light, an opening therein covered by transparent material to receive the negative, a carrying frame pivotally mounted on the base, a pressure pad carried by and having a limited free movement with respect to the frame, a spring rod supported on the machine and having a sliding connection with the carrying frame, a light circuit having spaced contacts arranged in the path of movement of said rod in the operation of the carrying frame, whereby said rod is adapted to close and open said circuit as the carrying frame is moved to an operative or inoperative position.

1,384,373. GALLEY SIDE-STICK. JESSE G. ZIM, Malden, Mass. Filed Jan. 28, 1921. Serial No. 440,770. 2 Claims. (Cl. 276—42.)



1. A side stick for type galleys comprising two side bars, a plurality of springs each fixedly secured intermediate its ends to one of the side bars, the other side bar being formed with elongated slots in its inner face, and each of said springs being formed at its opposite ends with lugs which engage with said slots, said lugs being connected with the body of the spring by neck portions, and guard members secured to the slotted face of the bar which form a narrow entrance to the said slots and form a passageway for the necks of the springs.

1,384,374. RIVETING-TOOL. ASA IVY ALBRIGHT and FRANCIS LAMAR MYATT, Monroe, La. Filed June 24, 1920. Serial No. 391,469. 5 Claims. (Cl. 78—53.5.)

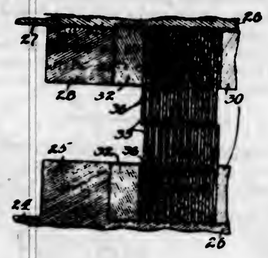


1. A rivet holder adapted for use with channel members comprising a bed plate adapted to rest upon one of the flanges of the channel member, a dolly-bar carried by the bed plate and having an opening in one end and a head formed at its opposite end, a loose connection between the dolly-bar and the bed plate comprising a bolt extending through the aperture of the dolly-bar, and an adjusting screw carried by the dolly intermediate the loose connection and the head and operatively engaging the bed plate.

1,384,375. PROCESS FOR MANUFACTURING TAILORS' CHALK. AUGUST ANDER and FREDERICK T. MCGUIRE, Seattle, Wash. Filed Dec. 9, 1919. Serial No. 343,463. 1 Claim. (Cl. 106—5.)

The process for manufacturing tailors' chalk, consisting in mixing a plastic clay substance with a coloring matter, forming the mixture into cakes, drying the latter under a mild heat, submerging the dried cakes in a liquid oleaginous substance to become saturated therewith, and finally drying the same.

1,384,376. EXPANDED-METAL-LATH MACHINE. FRED C. ABEY, Oak Park, Ill. Filed Jan. 27, 1919. Serial No. 273,302. 6 Claims. (Cl. 164—6.6.)

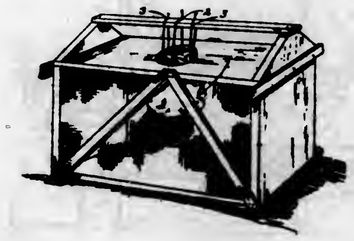


1. The combination with a lath machine, of rotatable arbors forming a part thereof, spacers on said arbors, and a plurality of diagonally positioned cutter segments securely disposed between each pair of said spacers to form cutters adapted to act upon a metal sheet to diagonally cut slots in parallel longitudinal sections of said metal sheet leaving plain sections separating the cut sections, said cutters being positioned so that the slots in two sections separated by a plain section are diagonally directed in different directions.

1,384,377. FEEDER FOR SOFT CANDY. EUGENE B. AULT, Calallen, Tex. Filed May 29, 1920. Serial No. 385,358. 4 Claims. (Cl. 6—5.)

1. A bee feeder composed of flexible porous material provided with means for suspending it and permitting the longitudinal collapse thereof.

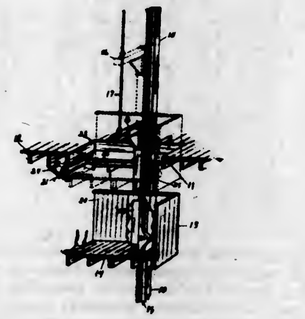
2. A bee feeder comprising a bag composed of flexible porous material having a suspending element threaded longitudinally therethrough and equipped with means for connecting it to a support.



3. A bee feeder comprising a bag of woven flexible material having laterally spaced drawing strings run longitudinally therethrough and suspending means arranged between said strings.

4. A bee feeder comprising a cloth bag open at one end and closed at the other, a wire threaded longitudinally through said bag from one side edge of the opening to the other midway the width of the bag and adapted to be connected with supporting means, and draw strings extending longitudinally of the bag on opposite sides of said wire.

1,384,378. SAFETY DEVICE FOR ELEVATORS. JOHN H. BERGHAUS, Jr., Louisville, Ky. Filed Feb. 16, 1920. Serial No. 358,849. 2 Claims. (Cl. 187—98.)

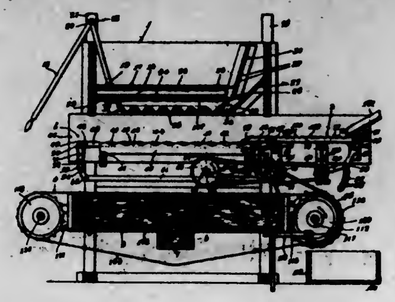


1. In combination a floor, having an opening, an elevator guide at the side of said opening, an elevator movable through the opening, a wing pendent below said floor in a plane substantially the same as a side of said opening, means normally biasing the lower edge of said wing away from the opening, a bar pivoted to said wing and extending through the elevator guide, and means on the elevator to move said bar against the action of said biasing means.

1,384,379. PROCESS OF PEELING TOMATOES. WILLIAM D. BOST and HARRY M. MILLER, Los Angeles, Calif., assignors, by mesne assignments, to said Miller. Filed May 21, 1919. Serial No. 298,595. 4 Claims. (Cl. 146—14.)

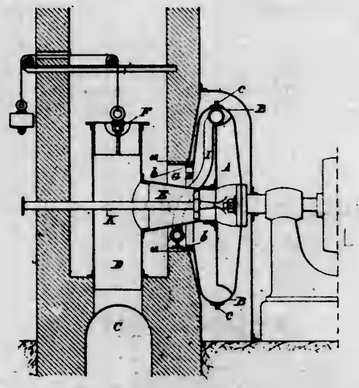
1. The process of peeling tomatoes, which consists in treating the tomatoes with a skin-loosening agent, cutting

slits in the skins, and then causing water to fall on the tomatoes in comparatively large volume without other



force than that acquired by its fall from a slightly higher level than the tomatoes.

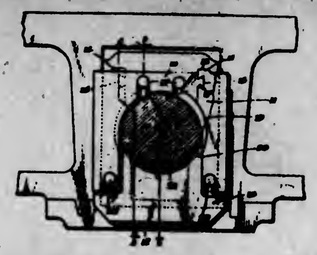
1,384,380. GAS-PURIFIER. CHARLES BOURDON, Paris, France. Filed Feb. 28, 1920. Serial No. 362,094. 5 Claims. (Cl. 183—77.)



1. An apparatus for purifying gas containing solid particles in suspension, comprising a blast fan for such gas having a convex rim formed by the union of the walls of the fan and providing a peripheral receptacle to collect the solid particles separated by centrifugal force from the gas; a chimney for the gas discharged by the fan; a supply conduit for the gas to be purified disposed in said chimney; a pipe connecting the supply conduit and the fan inlet; a valve enabling the passage of the gas alternatively through the supply conduit directly into the chimney, or through said connecting pipe into the fan, said fan having an outlet opening communicating with the chimney; and a spiral discharge pipe for the separated solid particles arranged within the fan and curving in the opposite direction to the direction of rotation of the fan, said spiral pipe terminating at one end in a flared inlet mouth which is located in close proximity to the wall of said rim to collect said particles from the rim.

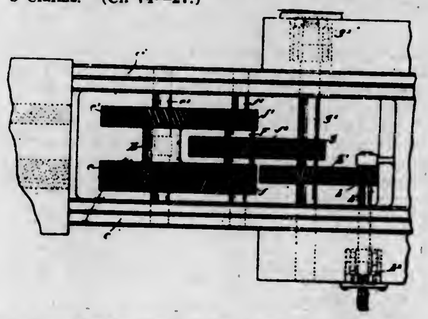
1,384,381. LOCOMOTIVE DRIVING-BOX. FELIX CANNON, Hamlet, N. C. Filed June 18, 1920. Serial No. 389,866. 10 Claims. (Cl. 64—10.)

1. A locomotive driving box of U-shape having a lower integral portion provided with a lubricant cellar, and a laterally shiftable and detachable locking saddle connect-



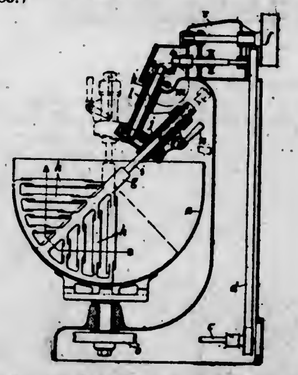
ing and reinforcing the upper portions of the side walls of the box.

1,384,382. DRIVING-GEAR FOR METAL-PLANERS. FORREST E. CARDULLO, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 15, 1921. Serial No. 461,538. 8 Claims. (Cl. 74—27.)



1. A drive for a metal planer, having in combination, a planer table having on its under side two helical cut racks of opposite angle, helical gearing for driving each of said racks, the angles of said gears so arranged that all unabsorbed end thrust will be so transmitted to the table as to tend to balance the normal side thrust of the cutting tool.

1,384,383. MIXING AND AERATING MACHINE. WILLIAM VANSON DAWKINGS, Whitstable, England. Filed Jan. 13, 1921. Serial No. 437,059. 1 Claim. (Cl. 259—85.)



The herein described machine for mixing and aerating materials for cakes and like goods, consisting of a pan,

a beater, means for rotating said pan and beater, and means for imparting axial and oscillatory movements to the said beater in the manner and for the purposes set forth.

1,384,384. STUMP-PULLER. ANDREW DOW, Seattle, Wash. Filed Feb. 24, 1921. Serial No. 447,482. 2 Claims. (Cl. 254—179.)



1. In a machine of the character described, the combination of a drum having internal gear teeth, a frame serving as a journal bearing for said drum and provided with laterally extending arm elements disposed in substantially tangential relations to the pitch circle of said gear teeth, one of said arms serving to connect the frame with an anchor cable, the other of said arms serving to connect the frame to an end of a hauling cable whose other end is wound about said drum, a pinion having an arbor journaled in said frame and engaging the drum teeth, an operating bar, operative connections between said bar and the pinion for transmitting intermittent rotary motion to said drum, and a spring actuated dog for progressively engaging the drum teeth during the rotation of the drum.

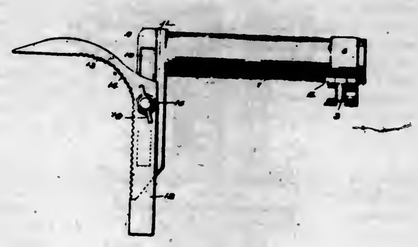
1,384,385. COMBINATION AUTOMOBILE-TIRE TOOL. FRANK EMMENEGGER, St. Louis, Mo. Filed Sept. 13, 1920. Serial No. 409,810. 1 Claim. (Cl. 157—6.)



A tool of the character described comprising a straight, flat shank having a curved tapering tire lifting end, a post rigidly upstanding from the shank at a point spaced from said end, and an inverted U-shaped tire embracing member in a single piece pivoted at one end to said post and having its opposite free end shiftable on said pivot toward and away from the said end of the shank, and a tire engaging disk having a shank threaded laterally through the free end of said tire engaging member, as described.

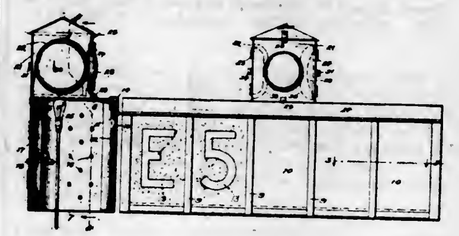
1,384,386. SHOULDER-REST FOR GUNS. SAMUEL G. GREEN, U. S. Army. Filed May 7, 1919. Serial No. 295,463. 2 Claims. (Cl. 42—72.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

1. A shoulder rest including a member attachable to the rearwardly projecting cylindrical portion of a machine gun stock, a depending standard integral with said member at the rear end thereof, said standard provided with a longitudinal slot, a shoulder rest piece slidable on



said standard and means passing through the slot and engaging the shoulder piece for clamping the piece in selected position upon the standard.

1,384,387. SIGNAL-LANTERN FOR LOCOMOTIVES. AUGUSTUS C. HINCKLEY, Pocatello, Idaho. Filed May 5, 1920. Serial No. 379,104. 1 Claim. (Cl. 240—22.)

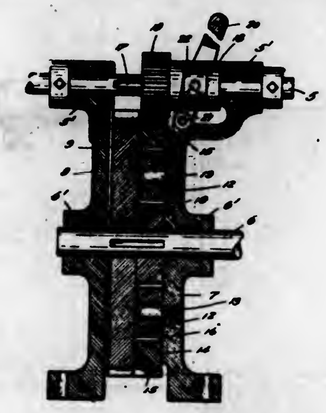


A signal lantern for locomotives, comprising in combination, a casing formed with a relatively narrow upward extension and a relatively wide main portion; a changeable exhibitor of the interchangeable stencil type mounted in the main portion of said casing; a clear lens mounted in said upward extension immediately above said changeable exhibitor; a color screen for said lens hinged to one corner of said upward extension; a mask for said lens hinged to another corner of said extension; said screen and mask being capable of swinging to positions over said lens and also to inoperative positions against the sides of said upward extension; latches serving to hold said screen and mask both in their operative position over said lens and their inoperative positions against the sides of said extension; a light source; and reflecting means serving to project light from said source through said exhibitor and lens.

1,384,388. REVERSING-GEARING. THOMAS J. HUGHES, Seattle, Wash. Filed Oct. 12, 1920. Serial No. 416,426. 3 Claims. (Cl. 74—58.)

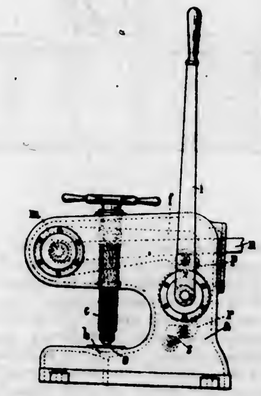
1. In a reversing-gear, the combination of a frame, a shaft extending therethrough, two gear-wheels of unequal diameters mounted upon said shaft, a gear-ring, a plurality of pinions rotatably connected to said frame and meshing with the smaller of said gear-wheels and the ring-gear, to

afford driving connections therebetween, a second shaft, a pinion rotatably mounted thereon, and means for moving



the last named pinion to engage either the larger of said gear-wheels or the ring-gear.

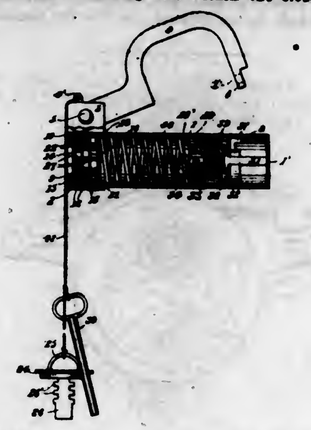
1,384,389. APPARATUS FOR TESTING THE HARDNESS OF MATERIALS. LAWRENCE JOHNSON and HARRY BREARLEY, Sheffield, England. Filed Sept. 27, 1919. Serial No. 326,796. 8 Claims. (Cl. 265—12.)



1. Apparatus of the type referred to, comprising in combination a hardened steel ball, a member supporting said ball, a lever carrying said member, an eccentric connected with said lever for applying the predetermined load and a second eccentric connected with said lever and with a second lever or lever system controlled by a weight, substantially as described.

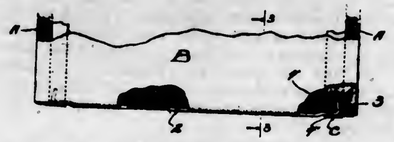
1,384,390. COMBINED KEY AND PERMUTATION-PADLOCK. CARL JUDYCKI, Athol, Mass. Filed Oct. 19, 1920. Serial No. 417,884. 5 Claims. (Cl. 70—112.)

1. A combined key and permutation padlock comprising a padlock barrel, a shackle pivoted thereto, permutation lock mechanism within the open end of the barrel, a permutation lock key normally retained in the permutation lock mechanism, a sliding bolt within the closed end of



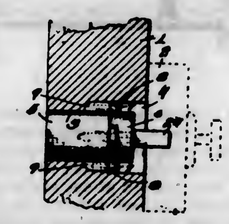
the barrel and a key for operating the sliding bolt adapted for insertion within the barrel upon removal of the permutation key.

1,384,391. BOX-PROTECTOR. WILLIAM C. KRAUSE, Milwaukee, Wis. Filed Nov. 22, 1920. Serial No. 425,740. 4 Claims. (Cl. 217—5.)



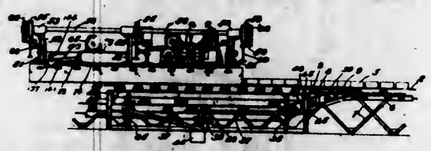
1. A rectangular crate of the character described, having wooden side and end panels, the bottom edges of the side panels being provided with longitudinal grooves, metallic runners fitted in the grooves adapted to project above the bottom surface of the panels, and means for securing the ends of the runners to said panels.

1,384,392. LOCK. ANTONY LASKI, Bridgeport, Conn., assignor to The Connecticut Lock Company, Inc., Bridgeport, Conn., a Corporation of Connecticut. Filed May 10, 1920. Serial No. 380,291. 4 Claims. (Cl. 70—46.)



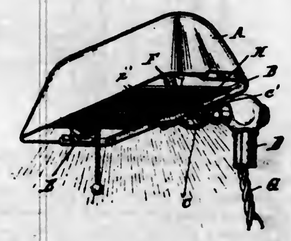
4. A lock comprising a tubular casing, a bolt rotatable in the casing and having tumbler mechanism for preventing rotation of the bolt until such mechanism is released by a key, an extension plate having a cross head, the bolt having a diametrical groove at the end remote from that engaged by the key for receiving said cross head, the casing having a cap shaped section detachably connected therewith through which the extension plate extends, said detachable section holding the extension plate in the groove.

1,384,393. PROCESS OF MANUFACTURING AND HANDLING BRICK. GRAFTON E. LUCE, Chicago, Ill. Filed Dec. 14, 1918. Serial No. 266,669. 16 Claims. (Cl. 214—152.)



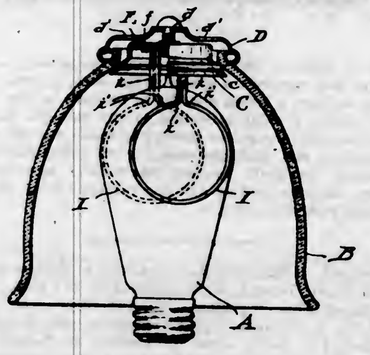
1. The process of handling articles during their continuous travel, which consists in moving a carrier against their line of travel, engaging said articles and then retracting said carrier at a speed equal to or greater than the travel of the articles.

1,384,394. ATTACHMENT FOR DESK-LAMPS. HARRISON D. MCFADDIN, East Orange, N. J. Filed Feb. 15, 1919. Serial No. 277,206. 7 Claims. (Cl. 240—1.)



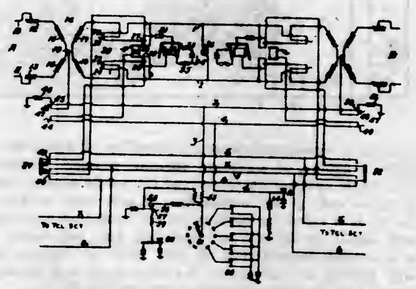
1. A desk lamp embodying a source of light and a reflector supported by a standard, in combination with a single ply colored light screen, having a dull or frosted surface, positioned in the open side of said reflector, and a plurality of resilient gripping jaws, supported by the standard and supporting the screen in position, said screen serving to divest the light rays from the source of light passing therethrough of the deleterious colors of the spectrum and produce a soft diffused illumination, restful to the eyes.

1,384,395. SHADE-HOLDER. HARRISON D. MCFADDIN, East Orange, N. J. Filed Feb. 23, 1917, Serial No. 150,373. Renewed Apr. 16, 1919. Serial No. 290,641. 2 Claims. (Cl. 240—111.)



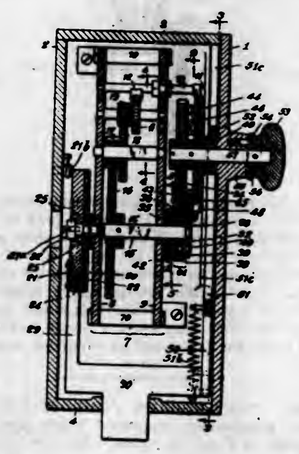
1. A shade holder embodying an inverted frusto conical thimble on which a lamp shade is adapted to be seated, means for detachably holding the lamp shade to the thimble to permit of a change of shades, a pair of spaced loops positioned beneath the thimble and each of which is provided with a pair of upwardly extending resilient stems with the stems of each pair parallel to one another and contacting with one another throughout substantially their entire length and the upper ends of the corresponding stems of each pair being connected with one another by a substantially semi-circular portion, which is seated in the base of the thimble, and tongues stamped up from the thimble and bent over the semi-circular portions for securing them firmly to the thimble, whereby said loops are resiliently mounted upon the thimble and are adapted to embrace and resiliently grip the lamp bulb forced between the loops.

1,384,396. TELEGRAPH SYSTEM. BENJAMIN F. MERRITT, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 10, 1917. Serial No. 195,715. 6 Claims. (Cl. 179—4.)



1. In a signaling system of simultaneous telegraphy and telephony, a plurality of line circuits, a central station and outlying stations connected by said line circuits, means for telegraphing over said line circuits, switching means for either selectively or collectively engaging said lines for telegraphing thereover, and resistances controlled by said switching means and substituted thereby for non-engaged lines.

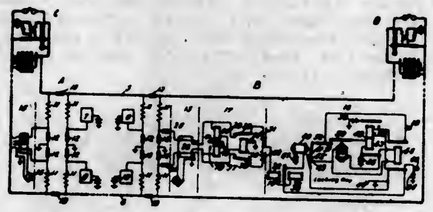
1,384,397. TIME COMBINATION-LOCK. CHARLES MILLER, New York, N. Y. Filed May 31, 1919. Serial No. 300,966. 25 Claims. (Cl. 70—26.)



1. In a lock, a bolt, means for moving said bolt, normally idle timing mechanism controlling the movement

of said bolt, a winding gear for said timing mechanism, a member movable with said bolt moving means carrying means for driving said winding gear said member being arranged to co-act with the timing mechanism to control the interval of time that said timing mechanism shall run.

1,384,398. SIGNALING SYSTEM. LOUIS A. MORTIMER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 12, 1917. Serial No. 180,145. 10 Claims. (Cl. 179—3.)



1. In a signaling system, a plurality of signaling devices, a source of signaling current, a relay responsive to a single application of current from said source, means operative due to the energization of said relay to actuate one of said signaling devices and to condition another of said signaling devices for operation and responsive due to a second energization of said relay by current from said source to disconnect the first-mentioned signaling device and to actuate the other signaling device.

1,384,399. HYDROMETER-SYRINGE. EINAR NEERUP, Chicago, Ill. Filed Nov. 1, 1920. Serial No. 420,969. 2 Claims. (Cl. 265—45.)

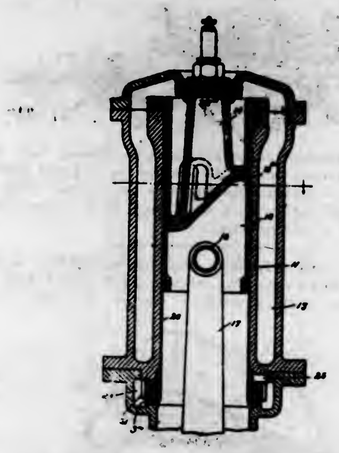


1. In a hydrometer syringe, the combination of a transparent view casing having a marginal bead at top, a cap piece of elastic material formed with a skirt portion and with an annular recess at the upper end of the cavity of the skirt portion for engagement with the upper beaded end of the view casing, suction means consisting of an elastic hollow bulb, and a connecting means between said cap piece and bulb comprising a nipple having a shank portion, a bottom flange and an expanded top portion.

1,384,400. INDIA-RUBBER COMPOSITION. ARTHUR NIXON, Manchester, England. Filed Apr. 19, 1920. Serial No. 375,130. 3 Claims. (Cl. 106—23.)

1. The improved composition comprising a vulcanized mixture of a caoutchouc-like substance and vulcanized fiber.

1,384,401. SLEEVE-VALVE ENGINE. WARREN NOBLE, Providence, R. I., assignor to N. C. L. Engineering Corporation, Providence, R. I., a Corporation of New York. Filed May 12, 1919. Serial No. 296,391. 14 Claims. (Cl. 123—75.)



1. In an engine, the combination with a ported cylinder and a piston therein, of a sleeve valve within the cylinder and surrounding the piston, said sleeve valve having a port opening and being flexible and distensible, whereby it travels in intimate gliding surface contact, as a stream in its channel, with the confining walls of the cylinder.

1,384,402. CONCRETE FOUNDATION AND METHOD OF MAKING SAME. WILLIAM H. PAVITT, Jr., Brooklyn, N. Y. Filed Nov. 15, 1919. Serial No. 338,374. 2 Claims. (Cl. 61—50.)



1. A sifter of the class described comprising a cylindrical body member, a spider in the lower portion of the body member, a screen disposed in the body member above the spider, a shaft extending axially through the body member and through the screen and spider member, means carried by said shaft and engaging the spider member for holding the shaft against longitudinal movement in either direction and an agitator member on the shaft co-acting with the screen.

1,384,403. STERILIZER. CHAUNCEY R. PELTON and JAY A. HAND, Detroit, Mich. Filed July 31, 1920. Serial No. 400,350. 5 Claims. (Cl. 167—8.)

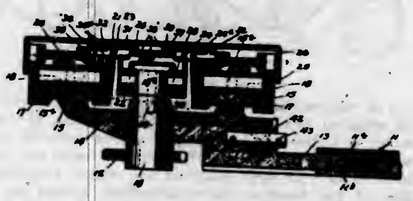
1. In a steriliser, a basin provided with a cover, a basket, and handle arms for hanging the basket solely from the basin in an upper and in a lower position, and in the latter position with the cover closed upon the basin.

5. In a steriliser, the combination of a basin, a basket handles provided with arms pivoted to the basket, the arms being notched on the under sides to hook over the rim of the basin to hold the basket in lifted position and



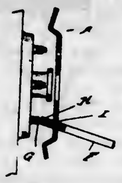
the arms being bent at a substantial right angle to hook over the edge of the basin to hold the basket in its lower position with respect to the basin.

1,384,404. MINING-MACHINE. THOMAS E. PRAY, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 9, 1920. Serial No. 402,349. 1 Claim. (Cl. 262—80.)



In a mining machine, the combination of a frame, a horizontally disposed ring rotatably mounted in said frame, a cutter bar comprising a chain-supporting element having a raised offset portion at one end thereof provided with a pair of upwardly extending arms, each connected to said ring by a substantially horisontal pivot mounted on opposite sides of the latter, upper and lower guiding flanges attached to said supporting element to form a channel about said cutter arm, a cutter chain adapted to move in said channel, a vertically disposed shaft extending through said offset portion of the cutter arm and having a driving sprocket for said cutter chain mounted on its lower end and in line with said channel, a horizontally disposed driving gear mounted on said ring, and a universal joint affording operative connection between said shaft and said driving gear.

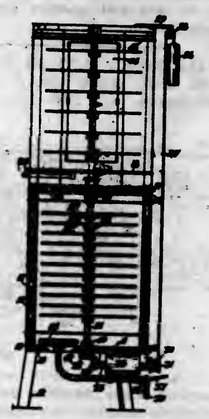
1,384,405. DEMOUNTABLE DISK WHEEL. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed July 3, 1919. Serial No. 308,599. 4 Claims. (Cl. 301—9.)



1. The combination with a hub, of a demountable disk wheel for engagement with said hub, said wheel having an aperture in the disk thereof, engageable by the tool for lifting the wheel into proper registration with the hub, and the hub having a bearing, providing a fulcrum for such a tool.

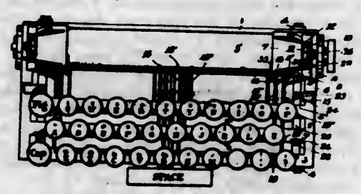
1,384,406. BAKER'S OVEN. JAMES J. REID, San Francisco, Calif. Filed June 25, 1919. Serial No. 306,599. 5 Claims. (Cl. 107—60.)

2. In a baking oven, a baking chamber, shelves therein, heating means for the chamber, means to effect relative rotation between the shelves and heating means, and



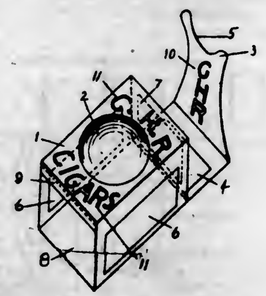
means to automatically cut off the heat supply after a predetermined interval of use.

1,384,407. TYPEWRITING-MACHINE. HENRY H. RIGGS, Harpoot, Turkey. Filed Nov. 28, 1917. Serial No. 203,540. 12 Claims. (Cl. 197—26.)



1. In a typewriting machine, a group of keys, a plurality of type arms each carrying a type head, means by which each type arm is operated identically by any one of a group of keys, and means by which the corresponding type head is rotated identically by any one of another group of keys, said two groups of keys having one key in common.

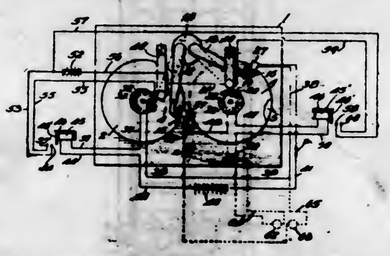
1,384,408. ADVERTISING NOVELTY. GEORGE H. ROWLES, Baltimore, Md. Filed July 17, 1920. Serial No. 396,966. 3 Claims. (Cl. 131—51.)



3. The providing of a case in which match boxes may be inserted and provided with means of permitting said match box to be opened and matches scratched on the side thereof and one face of said case being depressed to secure the match box in position, which depression may be used as an ash receptacle and a movable forked mem-

ber hinged to said case opening to hold one end of a cigar, the case holding the other end of the cigar and the combined weight of case and matches holding said forked member in open position.

1,384,409. TALKING-MACHINE OR THE LIKE. HENRY SHAFER, Ida, Mich. Filed Apr. 6, 1918. Serial No. 227,041. 10 Claims. (Cl. 274—10.)

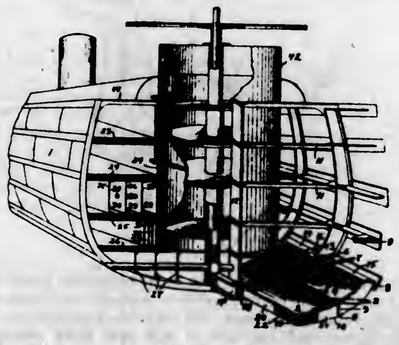


1. In a machine of the character described, a plurality of associated record carrying mechanisms, means common to both of said carry mechanisms for simultaneously driving the same, a plurality of sound transmitting mechanisms arranged to coöperate with the records carried by said carrying mechanism, in combination with operable means disposed within the path of travel of the transmitting mechanism for controlling said transmitting mechanisms whereby the same singly and successively coöperate with the records in a desired manner.

4. In a machine of the character described, the combination with a plurality of record carriers, driving means for operating said carriers at the same rate of speed, transmitting means arranged to coöperate with and engage the records on said carriers, means for automatically controlling said sound transmitting means, whereby when one transmitter reaches the end of a record the same will be lifted from operative relation therewith, and the other transmitter will be simultaneously moved into operative association with another record.

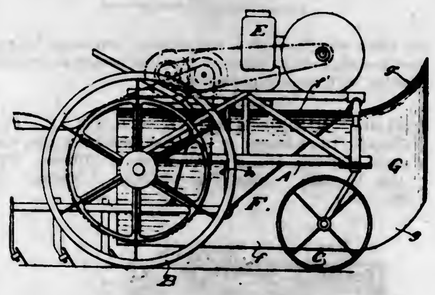
6. In a machine of the character described, a plurality of record carriers, independent sound transmitters, adapted to engage records carried by said carriers, means for successively placing said transmitters into operative association with the record, said means comprising controlling switches disposed well within the periphery of each record carrier and adapted to be controlled by said transmitters, circuits and electromagnets controlled by said switches for simultaneously placing one transmitter in position on its record while lifting a second transmitter from its record.

1,384,410. SHIP CONSTRUCTION. GEORGE K. SMITH, New York, N. Y. Filed May 17, 1917. Serial No. 169,255. 4 Claims. (Cl. 114—79.)



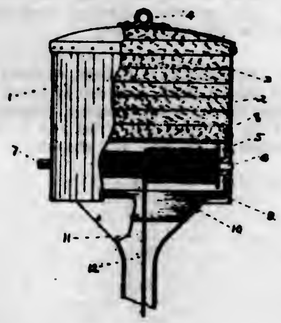
1. A metal hull construction for ships comprising flanged and nested plates, said plates having flanges of different heights, and means for securing the plates together extending between said flanges, there being a chamber between said plates.

1,384,411. CULTIVATOR MECHANISM. WILLIAM N. SPRINGER, South Bend, Ind. Filed May 17, 1916, Serial No. 98,105. Renewed Dec. 3, 1920. Serial No. 428,152. 5 Claims. (Cl. 97—13.)



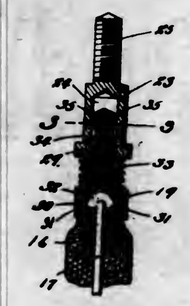
1. A cultivating implement adapted to cultivate the soil adjacent to bushes or young trees, having, in combination, a framework having high arches over the plant row, earth-working tools carried by the frame and separated to have an open space on the central longitudinal lines of the machine, power-propelling devices on the frame applying power to the traction wheels behind the front end of the frame, and a guide projecting forward from the frame and adapted to engage with the plant limbs and stems and guide them and deflect them inward and upward from the longitudinal planes of the tool paths to the said central open space and arranged to leave said space unobstructed from the ground to a horizontal plane near the arches.

1,384,412. INDICATING AND ATTACHING DEVICE FOR SUNKEN SHIPS. JOHN E. STOLTS, Charleston, Wash. Filed May 14, 1920. Serial No. 381,371. 1 Claim. (Cl. 114—51.)



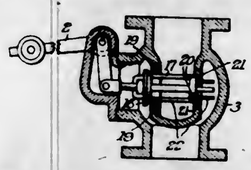
An apparatus of the class described, comprising in combination with a ship, a plurality of pairs of buoys oppositely located on a deck of said ship, each buoy having a casing, within the casing a plurality of watertight compartments carrying cork, below said compartments another compartment having rotatably mounted therein a reel carrying a line, the lower end of said second compartment being open and provided with inturned angular sections along its edge, a way for the line located adjacent the walls of the hull and extending around the interior of same, provided with fastenings having resistive strength against lifting and flared terminals opening out on said deck, each of said terminals adapted to afford a seat for the inturned angular sections of one of said buoys, a pair of said buoys located on the terminals and a line connecting the reels of said pair and slidably engaged through said way, means for reeling the line from either of said pair of buoys and through the line way.

1,384,413. SPARK-PLUG. OSWALD TROVA, St. Louis, Mo., assignor, by direct and mesne assignments, of one-half to King Bee Spark Plug Company, St. Louis, Mo., a Corporation of Missouri, and one-half to Frederick J. Reppenhagen and John E. Curley, St. Louis, Mo. Filed Feb. 9, 1920. Serial No. 357,275. 10 Claims. (Cl. 123—169.)



1. In a spark plug, a shell, an insulating core positioned therein, an electrode extending through said core, a cap insulator inclosing the upper portion of said insulating core, and a self adjusting electrode carried by said cap insulator and adapted to bear upon the upper portion of the insulating core whereby an intensifying spark gap is formed between said self-adjusting electrode and the electrode that extends through said core.

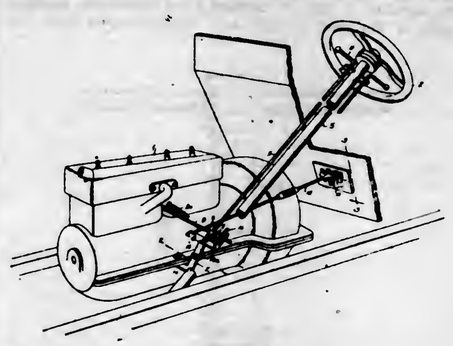
1,384,414. FEED-WATER-REGULATOR VALVE. VINCENT V. VEENSCHOTEN, Erie, Pa., assignor to Northern Equipment Company, Erie, Pa., a Corporation of Pennsylvania. Filed Dec. 9, 1918. Serial No. 265,871. 2 Claims. (Cl. 251—83.)



1. A feed-water valve casing, said casing having an inlet and an outlet, a partition in said casing separating the inlet of said casing from its outlet, said partition having two opposing ports therethrough, and a valve plunger slidably mounted in and adapted to open and close said ports, said plunger having an annular beveled seat adjacent one end, and an annular square-edged seat adjacent the other end, one of said ports having an annular beveled seat and the other port having an annular square edged seat, the respective beveled seats being arranged to coöperate with said square seats when said ports are closed by said plunger.

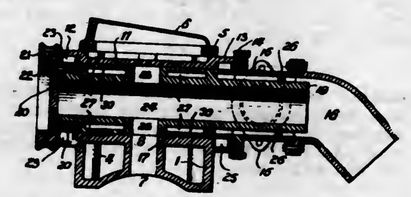
1,384,415. ACCELERATOR FOR ENGINES. PLEAS E. VINEYARD, Windom, Tex. Filed Dec. 5, 1919. Serial No. 342,708. 2 Claims. (Cl. 74—39.)

2. An accelerator for engines to control the throttle thereof, said accelerator being of the type which employs a bell-crank with a pedal and rod connection to work the bell-crank, and a rod connection from the bell-crank to the engine throttle, and characterised as new in that a



bracket made of hinged sections is anchored to any suitable point of support and pivotally supports the accelerator so that sufficient flexibility is derived to make a smooth operating mechanism.

1,384,416. OVERHEAD ROTARY VALVE FOR INTERNAL-COMBUSTION ENGINES. SAMUEL L. WAREHAM and JOSEPH F. PANENSE, Detroit, Mich. Filed Nov. 24, 1919. Serial No. 340,367. 1 Claim. (Cl. 123—190.)

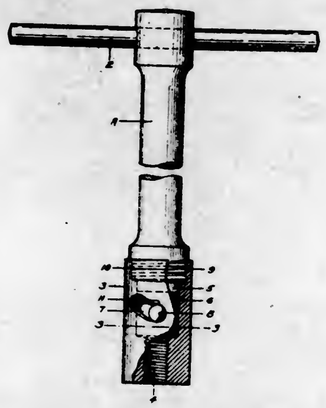


A rotary valve comprising a valve body having a port adapted to communicate with the cylinders of an internal combustion engine, collars at the ends of said valve body, a three-way inlet connection carried by one of said collars, an exhaust pipe connected to said three-way connection, a valve rotatable in said valve body having short and long reduced ends, and an exhaust bore throughout the length thereof, the long reduced end of said valve extending through said three-way connection into said exhaust pipe, a packing member about the long reduced end of said valve adjacent the exhaust pipe, said valve having opposed ports therein communicating with the exhaust bore thereof, said valve having chambers therein about the bore to be heated by the walls of the bore and the chambers communicating with said three-way connection, said valve having chamber ports to communicate with the port of said valve body, a power transmission wheel having a hub portion fitted on the short reduced end of said valve within said valve body and closing said bore and the other of said collars, and anti-frictional bearings in both of said collars against said valve and retained therein by the power transmission wheel and said three-way connection.

1,384,417. STUD-DRIVING WRENCH. HENRY A. WEICHHART, San Francisco, Calif., assignor to The California Tool Works, a Partnership composed of Henry A. and William E. Weichhart, doing business at San Francisco, Calif. Filed Feb. 12, 1919. Serial No. 276,488. 3 Claims. (Cl. 81—53.)

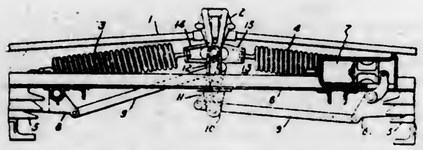
2. A stud driving wrench of the character described comprising a head member, a turning handle attached

thereto, a screw threaded stud engaging opening formed in the lower end of the head member, a chamber formed in the head member above the screw threaded stud engaging opening, a pair of inclined slots formed in opposite sides of the head member and communicating with the



chamber, a stud driving stop member vertically and turnably movable in the chamber and having pins projecting radially through the slots in the head, said inclined slots having flattened portions formed at the upper side of their lower terminals adapted to seat said radial pins when a stud is being driven.

1,384,418. TROLLEY. CHRISTIAN AALBORG, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1917. Serial No. 162,998. 8 Claims. (Cl. 191—65.)



1. The combination with a pantograph trolley, of springs adapted to elevate said trolley, linkage members connecting the adjacent ends of said springs, and a cam member connecting said linkage members and adapted to readily decrease the distance between said linkage members.

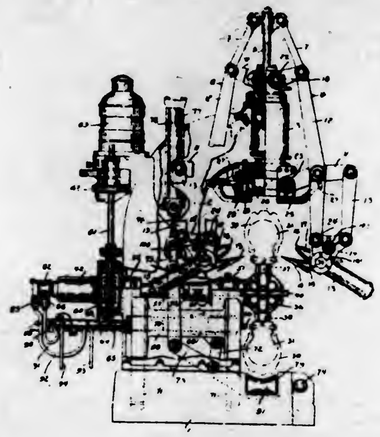
2. The combination with a trolley, of a pair of actuating springs each having one of its ends connected to an adjusting member in spaced relation to the other spring, said adjusting member being mounted for rotation in a direction to vary the tension of the springs.

3. The combination with a pantograph trolley, of a plurality of elevating springs, a link connected to each of said springs, and an eccentric cam shaft interposed between said links and adapted to shorten the distance between the points of connection to said springs.

4. The combination with a trolley, of a pair of actuating springs each having one of its ends connected to an adjusting member in spaced relation to the other spring, said adjusting member being mounted for rotation about a center intermediate the said ends of the springs.

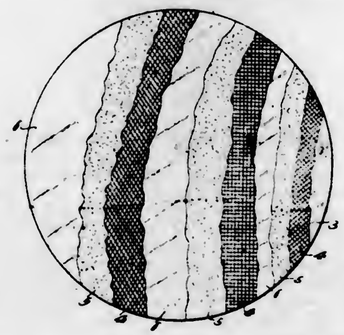
5. The combination with a trolley, of a spring adapted to elevate said trolley, a link connected to said spring, a supporting member, a cam shaft extending through said link and rotatably mounted on said supporting member, said cam shaft being adapted to occupy a plurality of positions to change the tension on said spring, and means for securing said shaft in any one of said positions.

1,384,419. TIRE-LOOSENING MACHINE. ADRIAN O. ABBOTT, Jr., Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed Apr. 22, 1920. Serial No. 375,792. 24 Claims. (Cl. 18—2.)



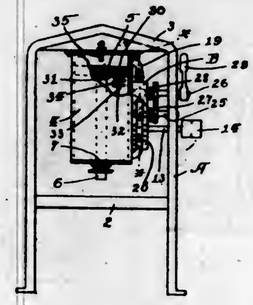
1. Apparatus for loosening tires from cores, including, in combination, a core support, tire loosening members, independent means supporting said members in spaced relation for operation on opposite sides of a core, means for inserting said members between a tire and its supporting core, and means for bodily moving the tire support and said members relative to one another to loosen a tire from a core.

1,384,420. METHOD OF BACKING MIRRORS. CARL E. AKELEY, New York, N. Y. Filed Mar. 19, 1919. Serial No. 283,647. 2 Claims. (Cl. 88—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



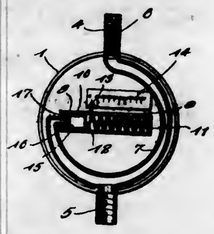
1. The method of backing a fragile metallic reflector which consists in, first laying a tough fabric over the back of said reflector, then covering the fabric with cementitious material and finally applying a coating of material impervious to water to said cementitious material.

1,384,421. HYDRAULIC RAM. ALBERT S. ANDERSON, St. Paul, Minn., assignor to Grant Waldref, St. Paul, Minn. Filed July 15, 1918. Serial No. 245,002. 1 Claim. (Cl. 138—10.)



A hydraulic ram, comprising, in combination, a frame having a bed, a cylinder supported by said frame over said bed, a piston in said cylinder having a shaft projecting over said bed, a pair of valves, a gear pump having ingress and egress ducts connected in multiple with said valves, a duct leading from the upper end of said cylinder to one of said valves, another duct leading from the lower end of said cylinder to the other of said valves, said valves in one position being adapted to direct the flow of liquid from said pump in one direction through said cylinder and in another position to reverse the flow of liquid through said cylinder, means for simultaneously operating said valves and means for driving said gear pump.

1,384,422. PRESSURE-GAGE. WILLIAM BASIL ANDERSON, Molson, Wash. Filed Dec. 22, 1919. Serial No. 346,458. 1 Claim. (Cl. 73—111.)



A pressure gage comprising a cylinder, open at one end and provided in one side with a slot which terminates adjacent the opposite end thereof, an air conduit extending into and closing the open end of said cylinder, an expansible bag arranged in the cylinder and connected at its open end to said conduit, a coiled spring arranged in the cylinder between the closed end thereof and the closed end of said bag, a disk follower in the cylinder between the bag and the spring, a pointer fixed to said follower and extending through the slot in the cylinder, a graduated scale in close proximity to the pointer which coacts with it, and means for connecting the conduit to a tire valve.

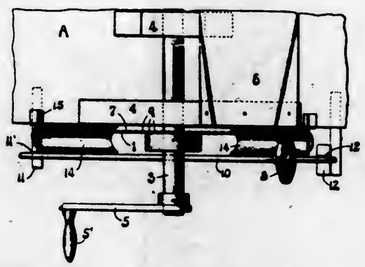
1,384,423. PREPARATION OF DRYING OILS. ELIAS BIELOUSS, Washington, D. C., assignor to Henry A. Gardner, Washington, D. C. Filed July 21, 1920. Serial No. 397,872. 2 Claims. (Cl. 134—56.)

1. A process of preparing drying oils from paraffin-type hydrocarbons, comprising effecting a limited chlorination of the oil, and thereafter dechlorinating the product at moderate temperatures and out of contact with an active catalyst, whereby excessive formation of objectionable by-products of reaction is avoided.

1,384,424. PYROTECHNICAL DEVICE. CHALFANT E. BIVINS, Brooklyn, N. Y., assignor to Edward H. Wagner, New York, N. Y. Filed Mar. 28, 1917. Serial No. 157,896. 2 Claims. (Cl. 52—23.)

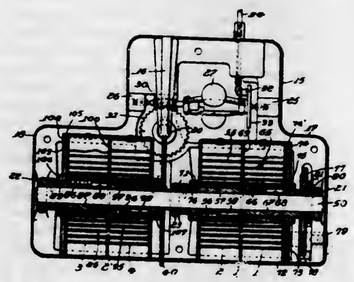
1. The herein described composition of matter resulting from the combination of red gum, naval pitch, trinitro-phenol and nitric acid, substantially as described and for the purpose specified.

1,384,425. FEED-CUTTER. JOHN H. BRUNNER, Allenton, Mo. Filed July 26, 1920. Serial No. 398,953. 3 Claims. (Cl. 146—9.)



2. A machine of the character described comprising a shaft, a perforated cutter disk mounted on said shaft and secured thereto, supporting bearings at one end of said shaft, an operating handle at the other end of said shaft, a rod extending across the face of said cutter disk, a thrust roller rotatably mounted on said rod and bearing against said perforated cutter disk, and notched members for removably supporting said rod.

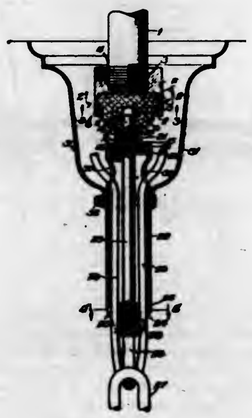
1,384,426. MULTIPLE-SPRING MOTOR. ISAAC FRANCIS BURTON, Philadelphia, Pa., assignor to Victor Talking Machine Company, a Corporation of New Jersey. Filed Oct. 18, 1917. Serial No. 197,232. 16 Claims. (Cl. 185—37.)



7. In a multiple spring motor, a shaft, a driving gear mounted substantially centrally thereof, a sleeve connected to said driving gear, a spring barrel, a spring

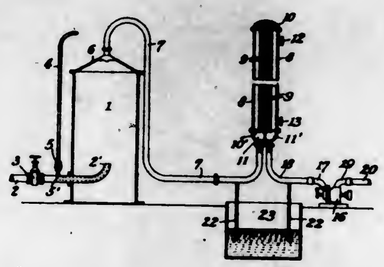
wound between said sleeve and said barrel, a second sleeve in said barrel, and a second spring wound between said barrel and said second-mentioned sleeve in the opposite direction, a shaft extending through said sleeves, means to secure said second-mentioned sleeve to said shaft, a third sleeve secured to said shaft on the opposite side of said driving gear, a second spring barrel, a third spring wound between said third-mentioned sleeve and said second-mentioned barrel in the opposite direction to said second-mentioned spring, a fourth sleeve on said shaft within said second-mentioned barrel, a fourth spring wound between said second-mentioned barrel and said third-mentioned spring in the opposite direction to said third-mentioned spring, and means to prevent the rotation of said last-mentioned sleeve in one direction.

1,384,427. ELECTRICAL FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Filed Mar. 8, 1920. Serial No. 364,356. 4 Claims. (Cl. 240—85.)



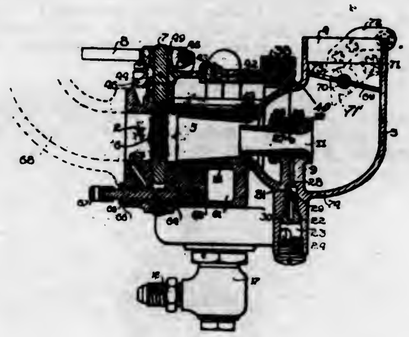
1. In an electrical fixture, a fixed supporting member, a coupling having its upper end secured thereto, said coupling having a socket formed in its lower end, an insulating member having an enlarged top portion, said top portion being disposed within said socket, an abutment projecting from the inside of said socket and arranged to enter a recess provided in the upper portion of said insulating member to prevent the latter from being rotatably moved, a spring member partly disposed within an annular recess in the inner surface of said socket at a point immediately beneath the enlarged portion of said insulating member, whereby said insulating member is maintained in position, a bolt having a non-circular head embedded in said insulating member and arranged to depend therefrom, a bushing having its upper end secured to the depending end of said bolt, said bushing having its lower end formed into a shoulder, a stem having its upper end seated against said shoulder, said stem having lateral openings therethrough near its upper end, a rod having its upper end secured to the lower end of said bushing and being arranged to extend through said stem, a nut screwed on the lower end of said rod, said nut being provided with a shoulder adapted to support the lower end of said stem, an eye member formed integral with said nut, a canopy slidably disposed on said stem, means for securing said canopy in position along said stem, and current carrying wires arranged to enter said stem through said lateral openings and to pass from said stem through diametrically opposed openings provided through said nut.

1,384,428. PROCESS FOR GENERATING FROM AIR AND HYDROGEN EITHER NITROGEN AND HYDROGEN MIXTURES OR NITROGEN. LUIGI CASALE, Terni, Italy. Filed July 7, 1920. Serial No. 394,474. 27 Claims. (Cl. 23—10.)



27. A process wherein atmospheric air is burned in a hydrogen atmosphere and the nitrogen product of said process conserved.

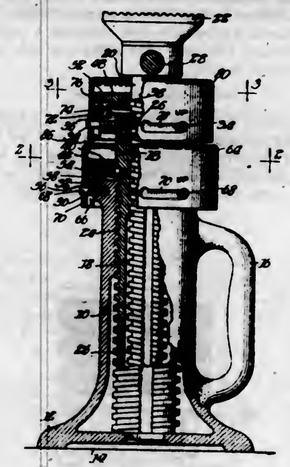
1,384,429. CARBURETER. DON COLE, Chicago, Ill., assignor to Stromberg Motor Devices Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 11, 1918. Serial No. 216,439. 5 Claims. (Cl. 261—41.)



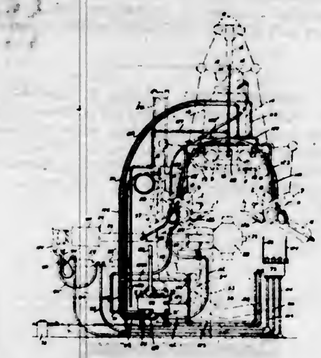
1. In a carbureter, a carbureting chamber having an air inlet and a mixture outlet, a throttle in said mixture outlet, a constant level liquid fuel supply chamber, a passageway having means for the admission of air at one end and terminating at the other end in a fuel nozzle feeding to said carbureting chamber, a restricted connection between said constant level fuel supply chamber and said passageway, said restricted connection feeding into said passageway below the fuel level in said supply chamber, a valve controlling the air admission end of said passageway, and means mechanically connecting said throttle and said valve.

1,384,430. MULTIPLE-SCREW JACK. JOHN CORYELL, Coryell, Mich. Filed Feb. 6, 1920. Serial No. 356,802. 8 Claims. (Cl. 254—102.)

1. In mechanism of the class described, in combination with a case and a plurality of telescoping screws, means for manually rocking one of said screws on its axis, two sets of ratchet teeth oppositely disposed to each other between one screw and the case, corresponding sets of oppositely disposed ratchet teeth between each two screws, and means selectively operatable for throwing one set only of each set of ratchets into operative engagement whereby the operator can, by properly selecting the combination of operating teeth, make the jack operate continuously in a given direction with each stroke of the operating lever.



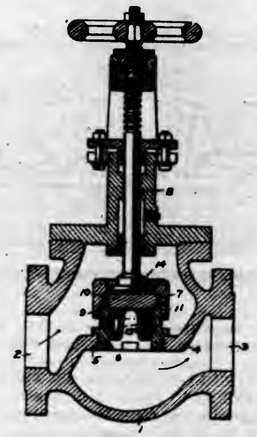
1,384,431. CONTROL FOR TIRE-STRIPPING MACHINES. MERRILL DAVIS, Detroit, Mich., assignor to Morgan and Wright, a Corporation of Michigan. Filed Aug. 31, 1920. Serial No. 407,077. 10 Claims. (Cl. 18—2.)



1. A tire loosening machine having a core support and loosening member one of which at least is revoluble, and mechanism operatively supporting the same, in combination with a fluid pressure system including valve blocks each containing a plurality of valves, and means for actuating the valves to progressively govern the extent of the several operations of the machine which are controlled thereby.

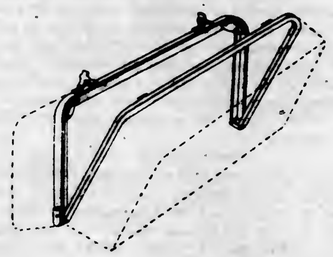
1,384,432. VALVE. GEORGE P. DEMPLER, Pittsburgh, Pa., assignor, by mesne assignments, to Protected Seat Valve Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 21, 1920. Serial No. 375,446. 1 Claim. (Cl. 251—28.)

A valve structure comprising a sleeve member and a closure member movable relatively to said sleeve member, said closure member being provided with a flange telescoping over the exterior surface of said sleeve member, said closure member comprising three parts: a valve stem with enlarged head, said flange, and a valve seat engaging



part, the two parts last named engaging one another by screw thread connection and forming together a cage whereby they are secured to the head of the valve stem, substantially as described.

1,384,433. FRAME FOR TRAVELING-BAGS. SAMUEL DRESSNER, Chicago, Ill. Filed Aug. 27, 1920. Serial No. 406,502. 2 Claims. (Cl. 190—50.)

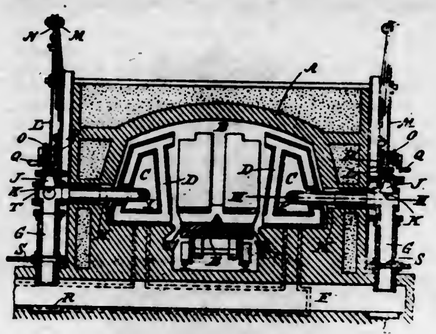


1. In a traveling bag frame, a pair of hingedly connected U-shaped angle members formed to be received one within the other, and a pair of devices having vertical bases secured to the corners of the outer member and having arched parts arranged approximately at right angles to the bases and spaced from the adjacent parts of the corners of said outer member, the free edges of the arched parts being formed to abut the adjacent vertical face of the inner member and to engage the other inner face of the inner member at the corners thereof so as to limit the extent of telescopic movement of the members and to hold the inner member against downward movement.

1,384,434. TUNNEL-KILN. PHILIP DRESSLER, Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1919. Serial No. 272,418. 6 Claims. (Cl. 25—142.)

1. In a tunnel kiln and in combination with the combustion chambers, gas burners projecting into the combustion chambers through the sides of the latter and adapted

to project a supply of gas in a horizontal direction along the combustion chambers, gas supply flues located exterior



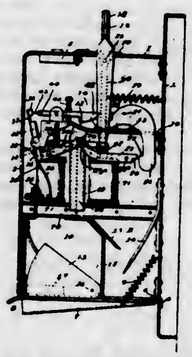
to the kiln and connected to the burners, and gas regulating valves between said gas supply flues and burners.

1,384,435. TUNNEL-KILN WITH SECTIONAL COMBUSTION-CHAMBERS. PHILIP D'H. DRESSLER, Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 27, 1920. Serial No. 369,414. 3 Claims. (Cl. 25—142.)



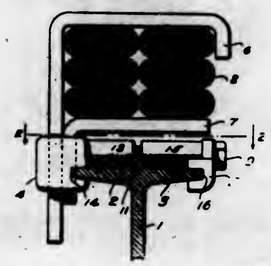
1. In a continuous tunnel kiln, the combination with a kiln chamber having an elongated hot zone, of a plurality of combustion chambers arranged in an end to end series extending longitudinally of the hot zone and having air and gas inlets at one end and an outlet for products of combustion at the other end and of such proportions that the distance between the inlet and outlet of each chamber is several times the maximum transverse dimension of the chamber.

1,384,436. COIN-COLLECTING, REGISTERING, AND CHANGE-DELIVERING APPARATUS. HARRY A. DARW, West New York, N. J., assignor, by mesne assignments, to Coin Device and Signal Co., Inc., New York, N. Y. Filed Nov. 8, 1919. Serial No. 336,643. 8 Claims. (Cl. 194—9.)



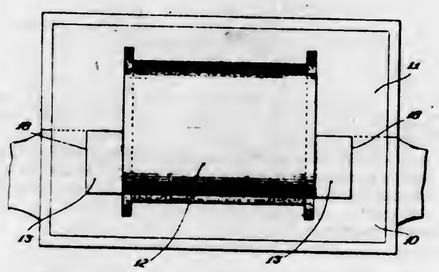
1. In means for the purpose described, the combination of a partition having an opening for the downward passage of a coin, a coin stop back of said opening, a movable chute to move a coin to a position in front of said stop, chute-moving means, a circuit-closing element movable by said chute-moving means, and a circuit-closing lever for coöperation with said element to complete a circuit; said lever movable by the coin only after the coin reaches a position in front of said stop.

1,384,437. BRACKET FOR SUSPENDING CABLES AND THE LIKE. OTTO EDELMANN, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 2, 1920. Serial No. 421,253. 3 Claims. (Cl. 248—32.)



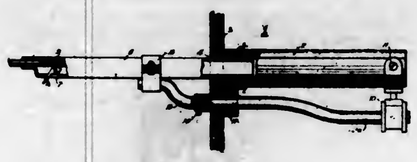
1. A cable bracket comprising a pair of jaw members having grooves for engagement with the support, one of said jaw members having an opening through it, a pair of cable holding members extending through said opening in said jaw member, means for connecting said jaw members together and binding said cable holding members in position.

1,384,438. CASTING-CORE. HARRY T. EDWARDS, San Francisco, Calif., assignor of one-half to Russell Berkenkamp, San Francisco, Calif., trading under the name of Ajax Foundry Company. Continuation of application No. 320,252, filed Aug. 27, 1919. This application filed Aug. 4, 1920. Serial No. 401,157. 20 Claims. (Cl. 22—166.)



1. A casting core having core prints by which it is designed to be held immovable and non-rotatable, by the sand of the cope and drag portions of a mold.

1,384,439. ELECTRODE-HOLDER FOR ARC-WELDING. OTTO H. ESCHHOLZ, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 24, 1919. Serial No. 340,244. 7 Claims. (Cl. 219—8.)



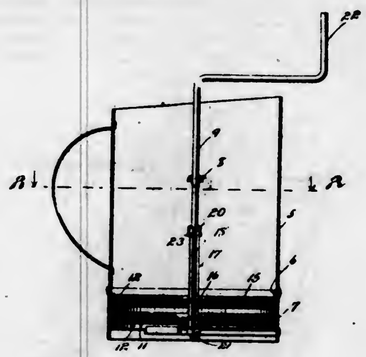
1. An electrode holder comprising a handle, a shield secured thereto, a tubular supporting member carried by the handle, and means for securing an electrode in the supporting member substantially in alinement with the axis thereof.

1,384,440. SUPPORTING-GARMENT. JACOB N. FAUST and CLYDE A. FAUST, Chicago, Ill. Filed Aug. 23, 1919. Serial No. 319,302. 2 Claims. (Cl. 241—8.)



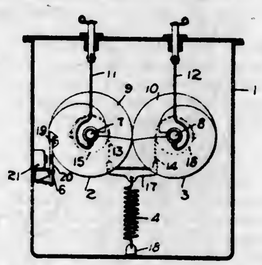
2. A belt for supporting garments comprising, in combination, a plurality of sections, a pair of straps associated with the end sections and adapted to be adjustably interconnected, and looped lacing cords arranged to pass freely through adjoining ends of said sections and the ends of said straps whereby said belt may be adjustably fitted by the adjustment of said straps.

1,384,441. SIFTER. ANDREW W. FLANNIGIN, Milwaukee, Wis. Filed Nov. 21, 1919. Serial No. 339,573. 8 Claims. (Cl. 83—60.)



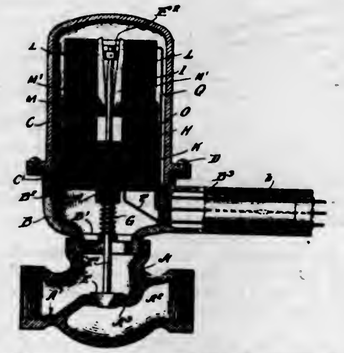
1. A sifter of the class described comprising a cylindrical body member, a spider in the lower portion of the body member, a screen disposed in the body member above the spider, a shaft extending axially through the body member and through the screen and spider member, means carried by said shaft and engaging the spider member for holding the shaft against longitudinal movement in either direction and an agitator member on the shaft co-acting with the screen.

1,384,442. CIRCUIT-INTERRUPTER. CHARLES LE G. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 18, 1916. Serial No. 132,087. 7 Claims. (Cl. 200—150.)



1. In a circuit interrupter, the combination with an inclosed oil-containing receptacle, of two rotatable contact members adapted to cause no appreciable displacement of oil in the circuit-opening and circuit-closing movements and having their conducting portions of such varied cross-sectional area that a relatively high resistance is inserted before they disengage.

1,384,443. ELECTRO VALVE MECHANISM. CHARLES P. FREY, Philadelphia, Pa., assignor to Brown Instrument Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed May 8, 1920. Serial No. 379,709. 8 Claims. (Cl. 137—139.)



1. A valve mechanism comprising in combination a reciprocating valve member having a valve closing tendency, means for moving said valve member into its open position, an electromagnet coil, means tending to retain the valve member in its open position comprising a pair of relatively movable parts of magnetic material longitudinally disposed in said coil and tending to move into position in which they hold the valve open when said coil is deënergized, and adapted to be separated by magnetic repulsion when said second coil is energized, and said parts are thereby similarly magnetized.

1,384,444. DIABETES REMEDY. WILLIAM L. FRAZIER, Boise, Idaho. Filed Jan. 15, 1921. Serial No. 437,585. 2 Claims. (Cl. 167—7.)

2. A medicinal preparation for the treatment of diabetes mellitus comprising a fluid suspension of the killed organisms causative of the said disease.

1,384,445. DIABETES REMEDY. WILLIAM L. FRAZIER, Boise, Idaho. Original application filed Jan. 15, 1921, Serial No. 437,585. Divided and this application filed June 6, 1921. Serial No. 475,352. 1 Claim. (Cl. 167—7.)

A medical preparation for the treatment of diabetes mellitus comprising the blood serum of an animal treated

with organisms causative of the said disease, to produce anti-bodies antagonistic to the toxins and organisms causative of diabetes mellitus.

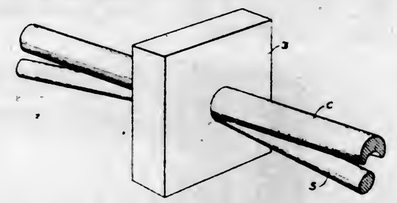
1,384,446. DRESSING AND DYEING MOLESKINS. HERMAN GABBE, Brooklyn, N. Y. Filed Apr. 30, 1919. Serial No. 293,696. 2 Claims. (Cl. 8—5.)

1. The herein described composition of matter to be used as a dyeing solution for moleskins, consisting of the following ingredients in about the proportions stated, namely: logwood dye, 50 parts; sal ammoniac, 25 parts; sumac, 25 parts; bluestone, 25 parts; and copperas, 50 parts.

1,384,447. PREPARATION OF DRYING OILS FROM HYDROCARBONS. HENRY A. GARDNER and ELIAS BIELOUSS, Washington, D. C.; said Bielouss assignor to said Gardner. Filed Dec. 9, 1919. Serial No. 343,458. 12 Claims. (Cl. 134—56.)

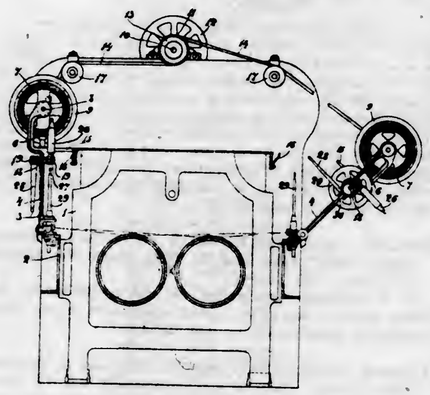
4. In a process of producing drying oils from chlorinated hydrocarbons, the step which consists in removing chlorin from the material in presence of a solvent for the chlorinated body.

1,384,448. METHOD OF WORKING METALS. OLIVER C. GILBERT, New York, N. Y., and EDGAR W. ADAMS, East Orange, N. J.; said Adams assignor to said Gilbert. Filed June 24, 1919. Serial No. 306,330. 12 Claims. (Cl. 205—21.)



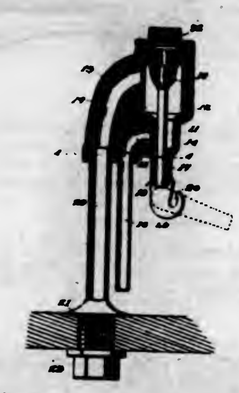
1. The method of working non-ferrous metals consisting in drawing a non-ferrous metal and a metal harder than the non-ferrous metal through a die together.

1,384,449. DOFFING APPARATUS FOR SPINNING AND TWISTING MACHINES. FREDRIK GRAF, Kroksätt, Sweden. Filed Dec. 22, 1919. Serial No. 346,618. 11 Claims. (Cl. 118—17.)



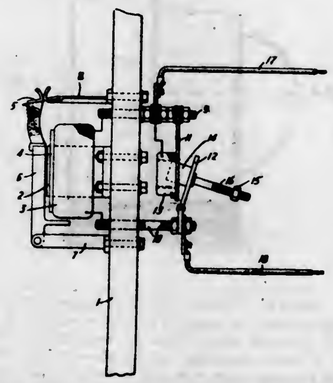
1. In a doffing apparatus for spinning and twisting machines, oppositely disposed threaded supports movable toward and away from the machine adjacent the spindle rail thereof, a holder rod extending between said supports and having its ends engaging and movable lengthwise on said supports from end to end of the latter, holders on said rod, movable with the latter from end to end of said supports and means for rotating the holders.

1,384,450. BALL-COCK. MERTON H. GREESON, Tampa, Fla. Filed Nov. 25, 1919. Serial No. 340,551. 2 Claims. (Cl. 137—104.)



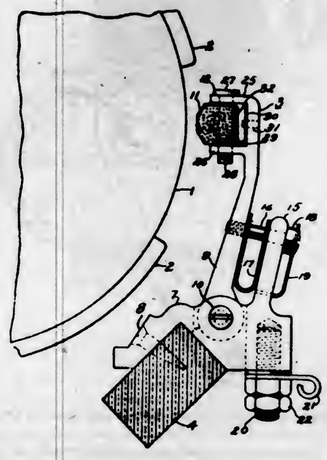
1. The combination with a casing, having a valve seat, and inlet and outlet means on opposite sides of said valve seat, a valve adapted for contact with said seat and having a depending stem, the lower portion of said casing being provided with a depending tubular guide slidably receiving said stem, a pair of spaced parallel ears depending from said tubular guide and provided with inclined slots opening out through the upper portions of the ears, a lever having its rear end rounded to form a cam engaging the lower end of said depending stem, a pair of trunnions extending from said lever forwardly of said cam and detachably arranged within said slots whereby the lever may be readily detached from said ears, and a float carried by said lever.

1,384,451. ELECTROMAGNETIC SWITCH. SAMUEL R. DODDS, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 20, 1916. Serial No. 98,805. 7 Claims. (Cl. 200—94.)



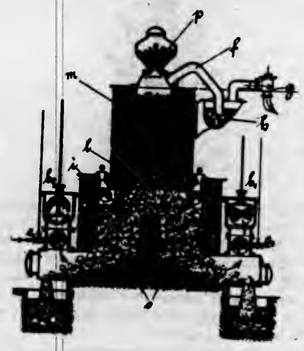
2. In a switch, the combination with a pair of coacting contact members and an electromagnet comprising a coil for effecting engagement of said contact members, of an electromagnetically operated switch for shunting said coil when the current traversing it exceeds a predetermined value.

1,384,452. CONTROL APPARATUS. SAMUEL R. DODDS, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 10, 1917. Serial No. 141,725. 4 Claims. (Cl. 200—170.)



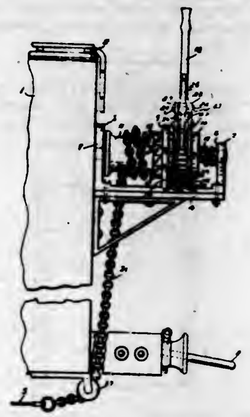
1. A control finger having a shank terminating in two arms extending at substantially right angles thereto, a one-piece contact tip removably and pivotally mounted within said arms, and a U-shaped spring member extending substantially parallel to the pivotal axis and having one arm detachably secured to said shank and having its other arm bearing upon said contact tip.

1,384,453. PROCESS FOR PRODUCING GAS OF BITUMINOUS FUEL MIXED BY THE GAS OF THE DISTILLATION OF COAL. EUGEN DOLENSKÝ, Frankfort-on-the-Main, Germany. Filed May 31, 1916. Serial No. 100,979. 1 Claim. (Cl. 48—202.)



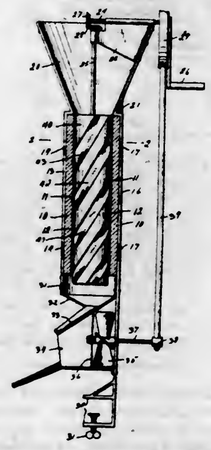
A process of gas generation from a column of solid fuel consisting of a blow period in which the lower portion only of said column is blown with air and a run period alternating therewith in which steam is passed upwardly through the said lower portion, air added to the water gas so formed, and the resulting products passed through the upper portion of the fuel column.

1,384,454. CAR-BRAKE. JOHN H. DUFF, Kansas City, Mo. Filed Sept. 27, 1920. Serial No. 412,055. 1 Claim. (Cl. 74—116.)



In a car brake, the combination with a car having brake rigging, of a frame mounted on the car, a shaft journaled in said frame, a drum secured on said shaft and having radially extending ratchet teeth on its inner end, a mobile member mounted idly on said shaft and having radially extending ratchet teeth on its inner end and adapted for engaging and disengaging the ratchet teeth on said drum and provided with a ratchet wheel section, a coiled spring loosely mounted on said shaft and normally pressing said mobile member to engagement with said drum, a lever rotatably mounted on said mobile member, a spring actuated pushing pawl mounted on said lever and engaging the ratchet wheel on said mobile member, a pawl normally detaining said mobile member from backward rotation, and a concentrically curved wedge shaped member on said frame and in the field of the back stroke of said lever and adapted for forcing the mobile member apart from the drum.

1,384,455. BERRY CLEANER AND STEMMER. PRESTON ERVIN, Emporia, Kans. Filed Mar. 14, 1921. Serial No. 451,998. 7 Claims. (Cl. 146—5.)



2. A fruit stemming and cleaning device of the character described comprising a body formed in two longi-

tudinally extending half sections, means yieldingly urging said sections toward each other but permitting the sections to move away from each other, and a rotatable berry carrier disposed within the passageway and approximately filling the same and formed with a longitudinally extending, helical groove opening upon the ends of the carrier.

1,384,456. METHOD OF REPAIRING SCORED CYLINDERS. ZEBULON J. EURY, Fort Worth, Tex. Filed May 1, 1919. Serial No. 294,126. Renewed June 6, 1921. Serial No. 475,558. 3 Claims. (Cl. 29—156.4.)



1. The method herein described which consists in drilling scores in cylinders and forming undercut edges with perforations therein, forming and forcing an alloy of high melting point into and filling the scores and interlocking the alloy in said perforations, and then polishing the alloy and making the same conform to the interior surface of the cylinder.

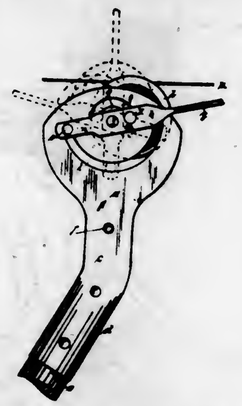
1,384,457. BAGGAGE-TAG. CHARLES A. FETTERS, Washington, D. C. Filed Nov. 27, 1917. Serial No. 204,168. 1 Claim. (Cl. 40—6.)



A baggage tag formed from a plurality of oblong shaped sections, scored lines between said sections and longitudinally disposed in relation to the sections, the adjacent oblong sections at one end of the plurality of sections being provided with apertured projecting portions adapted to extend beyond the ends of the other oblong sections when disposed between the sections having the projections, the apertured projections being so positioned that when they are folded on each other the apertures will register and detachable means passing through said apertures for holding the tag in folded position.

1,384,458. ADJUSTABLE TROLLEY-WHEEL FORK. DAVID M. FOWLER, Terre Haute, Ind., assignor of one-half to Robert H. Caton, Terre Haute, Ind. Filed Aug. 28, 1920. Serial No. 406,699. 3 Claims. (Cl. 191—73.)

1. A trolley-wheel fork comprising two side-plates, a bifurcated shank and a ferrule-like socket, said side-plates being perforated by semi-circular slots or orifices, adapted to receive and guide the axle of the trolley-wheel and a bolt adapted to connect the guide-levers, respectively, bearing-plates integral with said side-plates and adapted to support pivots upon which a pair of guide-levers revolve, a guide-lever mounted pivotally upon the outer side of each side-plate and adapted to receive and eccentrically guide the axle of a trolley-wheel suspended between said side-plates, a pair of finger-like guides in-



tegral with and projecting upwardly from said guide-levers, respectively, a pair of arms integral with and extending downwardly from said guide-levers, a bolt extending through semi-circular slots provided therefor in said side-plates and adapted to connect the lower ends of the said arms, a bolt passing through said bifurcated shank, a spiral-spring attached at either end to said bolts, respectively, all substantially as shown and described and for the purpose set forth.

1,384,459. TUNING-PEG FOR STRINGED MUSICAL INSTRUMENTS. ALBERT D. GROVER, New York, N. Y. Filed Aug. 11, 1919. Serial No. 316,614. 7 Claims. (Cl. 84—305.)



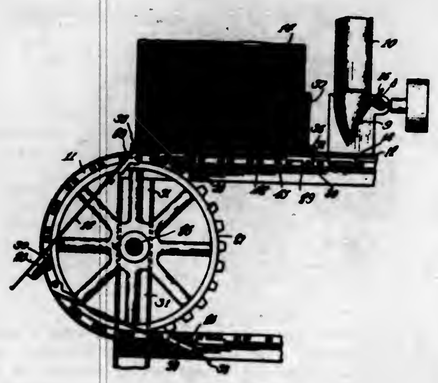
1. A tuning peg for stringed musical instruments, comprising an integral shank having a cylindrical portion to enter a peg hole and a polygnal portion provided at one end with a thumb-piece, a pair of relatively slidable shoulders on said shank to engage the opposite faces of the peg-head, and elastic means for forcing said shoulders toward each other into frictional engagement with the opposite faces of the peg-head.

1,384,460. MINERAL-OIL EMULSION. CHARLES B. HALEY, Oklahoma, Okla. Filed Dec. 11, 1920. Serial No. 430,051. 2 Claims. (Cl. 167—7.)

1. As an article of manufacture, an emulsion of mineral oil in milk of magnesia.

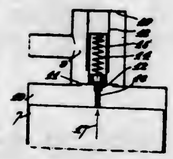
2. As an article of manufacture, an emulsion of mineral oil in an equal volume of milk of magnesia.

1,384,461. ICE-CREAM-CONE MACHINE. CHRIST HALSET, Chicago, Ill., assignor to Consolidated Wafer Company, Chicago, Ill., a Corporation of New York. Filed Jan. 9, 1920. Serial No. 350,309. 7 Claims. (Cl. 226—14.)



1. Ice-cream cone crating means comprising a cardboard sheet, said sheet having a plurality of openings therein adapted to receive ice-cream cones, and means for receiving ice-cream cones from a cone manufacturing machine and for passing an ice-cream cone into each of said openings.

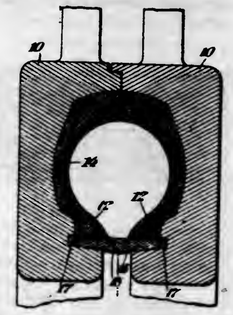
1,384,462. AUTOMATIC VALVE MECHANISM. JACOB CHRISTIAN HANSEN-ELLEHAMMER, Copenhagen, Denmark. Filed Apr. 15, 1919. Serial No. 290,245. 3 Claims. (Cl. 121—152.)



1. In combination with an engine composed of a cylinder and a piston, of a chamber communicating with the cylinder and in connection with a source of supply of a driving medium, a valve for controlling the communication between said chamber and cylinder and acted on by the engine to open a small degree when the piston approaches the dead center whereby to put the valve in a condition of balance acted upon equally on both sides by the driving medium, and resilient means compressible by the engine as the piston approaches the dead point and connected to said valve whereby to cause the opening of the latter to a predetermined degree.

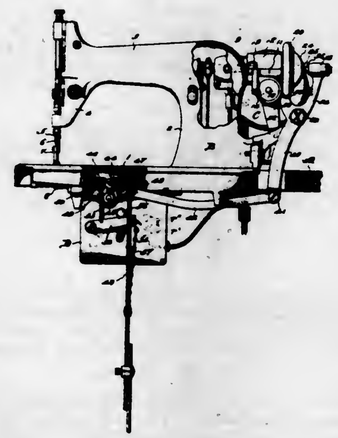
1,384,463. TIRE-SUPPORTING DEVICE FOR TIRE-MOLDS. ARCHER H. HARRIS, Barberton, Ohio, assignor of one-half to Evan A. Armstrong, Akron, Ohio. Filed Dec. 9, 1920. Serial No. 429,311. 3 Claims. (Cl. 18—38.)

1. The combination with a mold structure for tires of rubber and cord construction having basal annular beads, of a bead-supporting ring adapted to be associated with and to form a separable part of the said structure, said ring comprising a unitary body having spaced circum-



ferential bead-engaging flanges, said body and its flanges being split to permit contraction and expansion of the ring.

1,384,464. DRIVING AND CONTROLLING MECHANISM FOR POWER-OPERATED MACHINES. MARTIN HEMLER, Elizabeth, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed May 28, 1918. Serial No. 236,975. 18 Claims. (Cl. 172—179.)

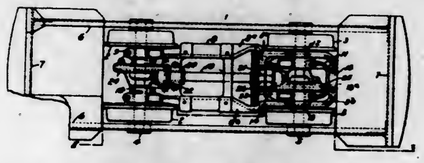


6. A sewing machine comprising, in combination, a frame including a bracket-arm, stitch-forming mechanism incorporated in said frame and including a main-shaft journaled lengthwise of said bracket-arm and having an outboard projection, a driving motor having a power-shaft disposed transversely of said main-shaft, and a manually operable clutch connection between the motor-shaft and the outboard projection of said main-shaft.

1,384,465. RECOVERY OF LEAD AND SILVER FROM SULFID ORES AND METALLURGICAL PRODUCTS. HARRY HEY, Melbourne, Victoria, Australia. Filed May 6, 1920. Serial No. 379,302. 6 Claims. (Cl. 75—18.)

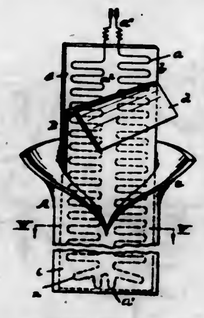
1. In the recovery of lead and silver from sulfid ores mixing the ore with hydrochloric acid and heating the mixture at a temperature substantially above 100° C. to effect a preferential chloridizing of the lead and silver present.

1,384,466. LOCOMOTIVE. GEORGE H. F. HOLT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 26, 1917. Serial No. 171,149. 18 Claims. (Cl. 105—118.)



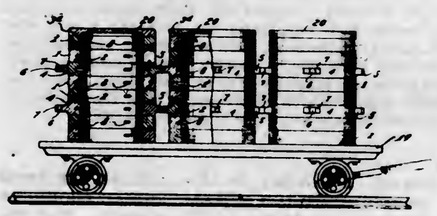
1. In a locomotive, the combination with two axles having driving wheels mounted thereon, and a motor provided with means for transmitting the driving effort of the motor through the axles to the driving wheels, of means for supporting the motor at two different points on one of said axles and for so pivotally supporting the motor on the other of said axles as to permit both a bodily vertical movement and a pivotal movement of said axle in a transverse perpendicular plane.

1,384,467. BANDAGE. JOHN G. HOMAN, Steubenville, Ohio, assignor to Electrothermal Company, Steubenville, Ohio, a Firm composed of John G. Homan and William J. Kirk. Filed Jan. 27, 1920. Serial No. 354,350. 14 Claims. (Cl. 219—46.)



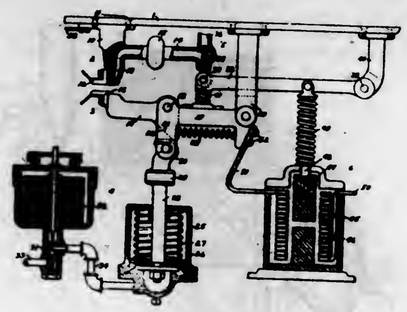
1. A device of the class described comprising a flexible supporting member of non-conducting material having an adhesive surface, an electrical conductor secured by said surface, and a flexible covering over said conductor.

1,384,468. SAGGAR. DELTA B. HOWELL, Chicago, Ill., assignor of one-half to Ray Y. Cliff, Sebring, Ohio. Filed Mar. 26, 1920. Serial No. 368,849. 7 Claims. (Cl. 25—153.)



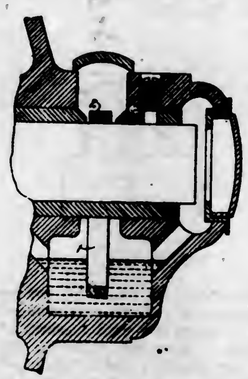
1. A saggar for holding articles to be fired, comprising a tier of superposed refractory rings, each adapted to support an article to be fired and engaging means upon certain of said rings for engaging corresponding rings in adjacent tiers.

1,384,469. CONTROL APPARATUS. MAURICE F. JONES, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 3, 1917. Serial No. 184,238. 6 Claims. (Cl. 200—148.)



1. In control apparatus, the combination with a plurality of normally open electrical contact members, of means for actuating one of said contact members to a closed position, a valve opened by the opening movement of the contact members to direct a fluid blast upon the arc caused by their separation, and a coil in series circuit with said arc and associated with means for automatically permitting the closure of said valve only upon the rupture of the arc.

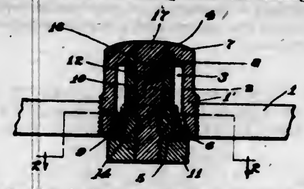
1,384,470. OIL-RING. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,495. 5 Claims. (Cl. 64—31.)



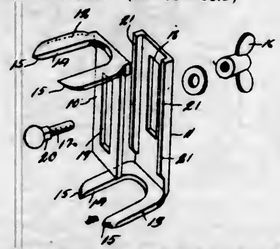
I. An oil ring comprising a comminuted material associated with a hardened binder and reinforcing strands of fibrous material disposed therein.

1,384,471. FUSIBLE PLUG. JOSEPH BERNARD KILKENNY, Oakland, Calif. Filed Feb. 26, 1920. Serial No. 361,525. 2 Claims. (Cl. 122—504.3.)

1. A safety appliance for steam boilers comprising a tubular shell communicating at one end with the boiler water space and at its opposite end with the boiler fire box, said shell provided on its interior with an enlarged chamber, relief ports connecting the shell with the boiler fire box, a tubular plug removably positioned within said shell to close its opposite ends, a fusible element closing the tubular portion of said plug with one end exposed to the boiler fire-box, said plug provided with lateral channels communicating with the enlarged chamber whereby the fusing of said element provides a connection between the boiler water space and the fire box through said enlarged chamber.

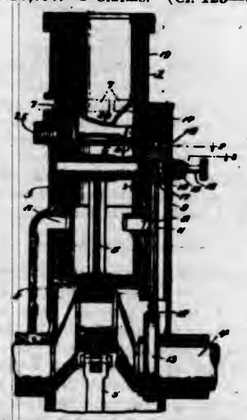


1,384,472. VALVE-SPRING HOLDER. WILLIAM A. LEAHY, Imogene, Iowa. Filed Aug. 4, 1919. Serial No. 315,185. 1 Claim. (Cl. 20—86.3)



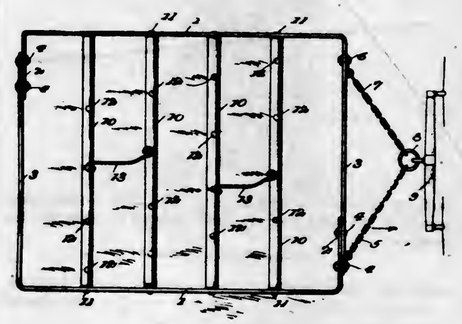
A valve spring holder comprising two right angle members, the horizontal arms of each right angle member being provided with bifurcations forming recesses for the reception of a valve stem and arms for engaging the ends of a valve spring, the vertical arms of the angle members having longitudinally disposed slots therein registering with each other, a headed bolt passing through said slots and provided with a rectangular shaped portion adjacent its head and disposed in the slots, the shank of said headed bolt being threaded and provided with a nut whereby the parts may be clamped together, and flanges carried by the vertical edges of the outer vertical arm and engaging the sides of the inner vertical arms and preventing movement of the arms out of registration with each other sidewise, said bolt forming means for maintaining said vertical arms in engagement with each other frictionally and allowing said arms to be easily detached.

1,384,473. FUEL FEEDING AND IGNITION MEANS. ALBERT R. LONG, Ballston, Va. Filed Jan. 8, 1920. Serial No. 350,007. 3 Claims. (Cl. 123—65.)



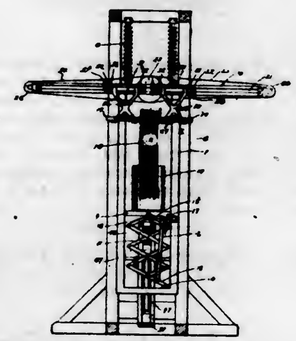
1. In combination with an engine cylinder, a housing adjacent to and communicating therewith, air and fuel supply means for the housing, said housing having a pocket in one side wall thereof and a valve operable in the housing for conveying fuel to said pocket whereat it is measured and then conveyed by continued operation of said valve for discharge into the cylinder.

1,384,474. HARROW. FRANK J. LUEDKE, Salteese, Mont. Filed May 10, 1920. Serial No. 380,327. 1 Claim. (Cl. 55—8.)



A harrow comprising a frame consisting of two similar L-shaped members each having the extremity of its longitudinal arm provided with an inwardly turned portion overlapping the end of the transverse arm of the other member, fastening devices inserted through said overlapping portions, tooth bars mounted in the longitudinal arms of said L-shaped members, and harrow teeth secured in said tooth bars.

1,384,475. HURL SIZER AND SHAKER. GEORGE L. MCARTHUR, Racine, Wis. Filed Aug. 30, 1919. Serial No. 320,816. 12 Claims. (Cl. 15—45.)

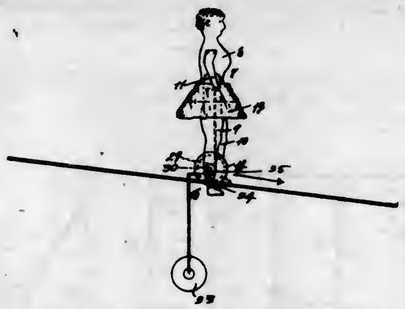


1. A device of the class described including finger members movable to engage in straws to be sized and then movable to clamp the straws therebetween, and means for shaking the fingers after being moved to clamping position.

1,384,476. BALANCING TOY. CHARLES MATHIEU, New York, N. Y. Filed Sept. 30, 1920. Serial No. 413,905. 3 Claims. (Cl. 46—40.)

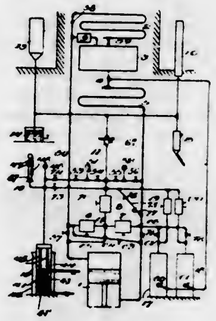
1. In a balancing toy, a body member, a pair of alined connected arms movably mounted on the body member

and normally extending outwardly therefrom, legs also slidably connected to said body member, the upper end of



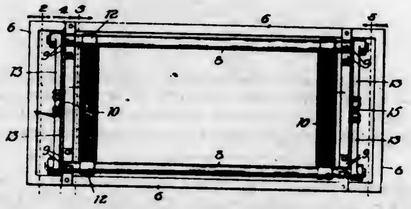
each leg alternately striking said arms, and a roller connected to the body member and arranged to move the leg members.

1,384,477. FLUID-PRESSURE APPARATUS. FRED E. MATTHEWS, Leonia, N. J. Filed Apr. 3, 1918. Serial No. 226,505. 18 Claims. (Cl. 62—2.)



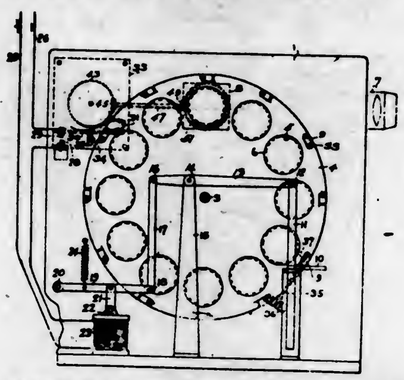
1. In a fluid pressure apparatus, in combination, a normally fluid-tight chamber, automatic high pressure relief means for passing fluid into said fluid-tight chamber, means connected with said chamber and responsive to a relatively materially lower pressure for permitting discharge of the fluid from said chamber, and conserving means including a medium capable of absorbing the fluid at pressures below that necessary to actuate the fluid discharging means.

1,384,478. WEIGHT-SUPPORTING PLATFORM. MORTIMER B. MILLS, Chicago, Ill. Filed Sept. 4, 1920. Serial No. 408,312. 4 Claims. (Cl. 265—71.)



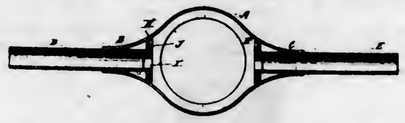
1. In combination with a base, rails secured thereon, rollers rotatably bearing on said rails, springs extending from the rails and winding in one direction about and secured to the rollers, seat-forming bars suspended at their ends by springs winding in the opposite direction about and secured to the rollers, and a weight-supporting platform on said bars.

1,384,479. TIME-CONTROLLED ADVERTISING DEVICE. THOMAS J. MOSURE, Niles, Ohio. Filed Nov. 20, 1919. Serial No. 341,505. 6 Claims. (Cl. 40—52.)



1. In an advertising device, the combination of a light source, a rotatable disk provided with means for carrying a series of advertisements, electrically operable means for imparting a step-by-step rotation to the said disk and time-controlled means for energizing the said rotating means, the said time controlled means comprising a clock, a fixed contact member associated with the said clock and insulated therefrom, a movable contact member adapted to coöperate with the said fixed contact member, and a cam operating the said movable member, the said cam being connected to rotate with one of the rotary parts of the said clock.

1,384,480. HOUSING FOR TRANSMISSION-GEARS AND AXLES OF AUTOMOBILES. THOMAS E. MURRAY, Jr., and JOSEPH B. MURRAY, Brooklyn, N. Y. Filed Feb. 20, 1920. Serial No. 360,066. 2 Claims. (Cl. 74—56.)

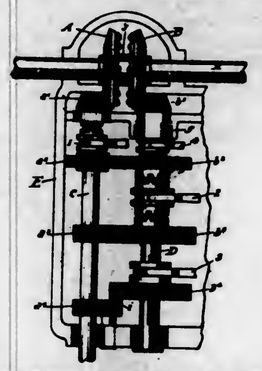


1. A housing for transmission gear and axle, comprising a middle section in form substantially annular with oppositely disposed tubular extensions and formed in two longitudinal half sections electrically welded together at their registering edges, a flanged ring in each of said extensions and electrically welded thereto at its circumferential periphery, and tubes entering said extensions and electrically welded to said rings; the said rings being butt-welded to the ends of said tubes.

1,384,481. TRANSMISSION-GEAR FOR AUTOMOBILES. WILLIAM FRANKLIN PENROD, Cincinnati, Ohio, assignor to Anthony J. Wissel, trustee. Filed July 3, 1919. Serial No. 308,431. 3 Claims. (Cl. 74—59.)

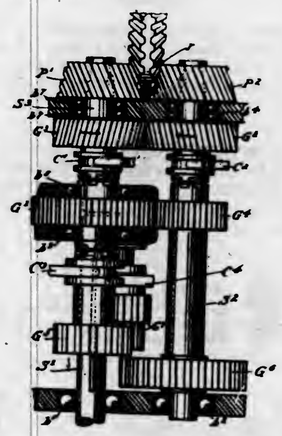
2. In a transmission-gear-driving system a main shaft and a countershaft in parallel, each having a terminal bevel pinion; a plurality of spur gears of varying diameter fixedly carried on said main shaft; a corresponding plurality of spur gears carried loosely on said countershaft in constant mesh each with its opposite gear of the main

shaft; clutches for connecting either of said loose gears with the countershaft and for connecting or disconnecting the terminal pinion of the mainshaft with or from its shaft; a stud independently fixed to the frame; a loose



reversing gear thereon in constant mesh with one of the fixed gears; and a sliding clutch gear splined on the countershaft adapted to be moved laterally into mesh with the reversing gear.

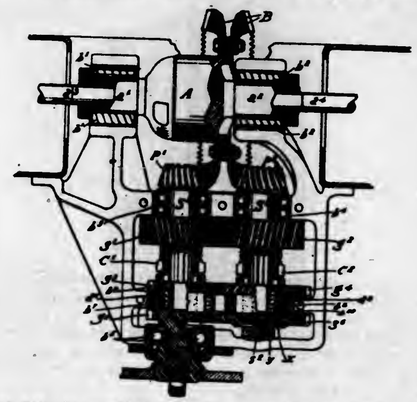
1,384,482. TRANSMITTING-GEAR SYSTEM. WILLIAM FRANKLIN PENROD, Cincinnati, Ohio, assignor to Anthony J. Wissel, trustee. Filed Nov. 24, 1919. Serial No. 340,301. 9 Claims. (Cl. 74—58.)



1. In a transmission gear system, the combination of a main shaft to which power is initially applied; an abutting extension thereof independently rotatable; a normally loose transmission gear journaled in bearings upon the general supporting frame of the system and itself constituting a journal bearing and support for the main and extension shafts in common at their contiguous end portions; and clutches, one at each side of the transmission gear upon the main and extension shafts, adapted to engage said gear in rotation with either or both as desired.

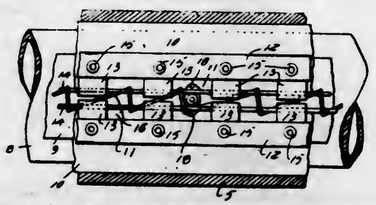
1,384,483. DRIVING-GEAR SYSTEM. WILLIAM FRANKLIN PENROD, Cincinnati, Ohio, assignor to Anthony J. Wissel, trustee. Filed Feb. 21, 1920. Serial No. 360,456. 5 Claims. (Cl. 74—99.)

1. In a transmission gear system of the character indicated, a structural unit independent of the speed changing mechanism, embodying in combination a yoke-shaped supporting frame adapted to engage the axle casing at its arm terminals; main and auxiliary shafts in parallel centrally located between the side arms of the yoke carrying equal terminal bevel pinions adapted to engage a double



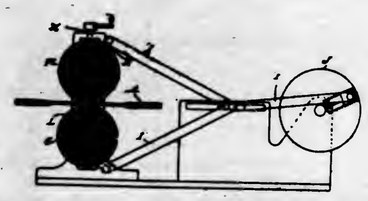
ring gear in constant mesh at opposite sides; equal spur gears in constant mesh on and between said shafts; a cross-bar support for the shafts adjacent to and between the said pinions and gears; and a similar cross support adjacently forward of the spur gears.

1,384,484. TIRE STRUCTURE. HARRY ELWOOD PENWELL, Turlock, Calif. Filed June 9, 1920. Serial No. 387,566. 1 Claim. (Cl. 152—18.)



A tire structure of the character described comprising a tire casing including separable edges, a laminated reinforcing strip secured to each of said edges, the longitudinal edges of said laminations coinciding, loop members disposed between the laminations of said strips, a wire extending longitudinally of each of said separable edges through the loop members, and a lace adapted to alternately engage said wire between the loop members to draw said separable edges closely adjacent each other.

1,384,485. METHOD OF FORMING AXLE-HOUSINGS. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 25, 1918. Serial No. 255,639. 5 Claims. (Cl. 29—153.)



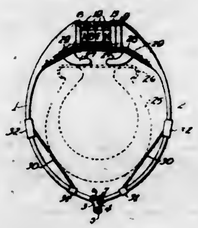
1. The process of forming axle housings, comprising the forming of a blank of varying gage, drop forging the thicker portions of said blank to fashion the same, and pressing the thinner portions.

1,384,486. VALVE FOR HEATING-RADIATORS. VAN VECHTON RIESBERG, Philadelphia, Pa. Filed Mar. 1, 1920. Serial No. 362,229. 3 Claims. (Cl. 137—122.)



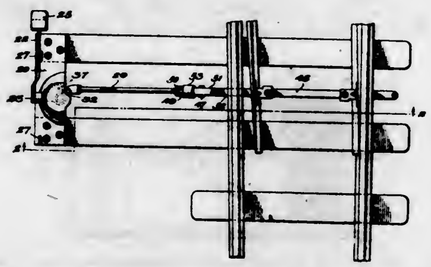
1. In a valve of the character stated, a casing, a cup vertically movable in said casing, an inverted float valve in said cup, and means on said cup whereby the latter is in communication with said casing, and said float valve is in communication with said cup, said cup being adapted to cause upward movement of the said valve by the upward force exerted on the cup.

1,384,487. AUTO-TIRE LOCK. WALDO A. RIGAL, Chicago, Ill. Filed Dec 20, 1920. Serial No. 431,944. 5 Claims. (Cl. 70—19.)



1. A device of the character described comprising a pair of substantially semi-annular arms, a plurality of links connecting said arms at one end, one of said arms being provided with a locking bolt and the other of said arms being provided with a lock casing adapted to receive said bolt, and combination controlled means co-acting with said lock casing to control the movement of said locking bolt relative to the lock casing.

1,384,488. SWITCH-STAND. NEIL E. SALSICH, Bethlehem, Pa. Filed Nov. 8, 1918. Serial No. 261,629. 16 Claims. (Cl. 246—404.)



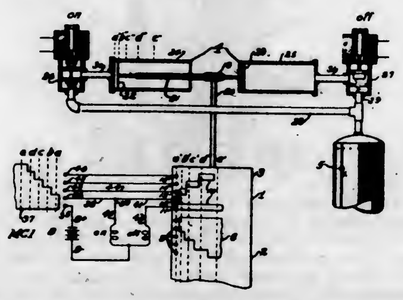
1. A switch stand including in combination, a base having a chamber therein, a pinion within the chamber mounted for turning about a horizontal axis, a gear in mesh with the pinion and held thereby against axial movement in one direction, said gear provided with an arm on its hub adapted to be connected to the switch operating rod, and means to turn said pinion.

1,384,489. ROPE-SOCKET. WILLIAM D. SHAFFER, Santa Paula, Calif. Filed Sept. 13, 1920. Serial No. 400,754. 1 Claim. (Cl. 24—123.)



A rope socket, comprising a body member provided with a bore, cone slips adapted to grip a cable end mounted in said bore, a shank threaded into said bore, and shims interposed between the lower ends of said cone slips and said shank.

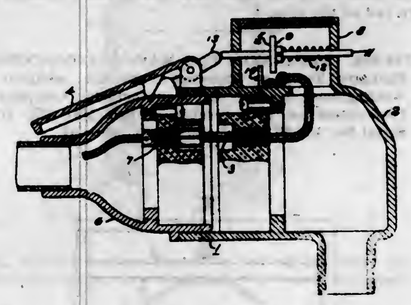
1,384,490. CONTROL APPARATUS. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 18, 1917. Serial No. 162,889. 11 Claims. (Cl. 200—17.)



10. The combination with a stationary member, of a coöperating fluid-pressure-operated member adapted for step-by-step actuation, and means for causing steps taken at different portions of the movement to consume substantially equal time elements.

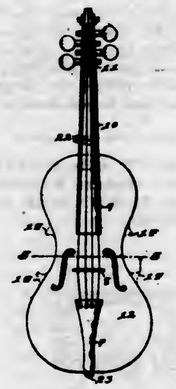
1,384,491. CONNECTOR. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 13, 1917. Serial No. 174,445. 3 Claim. (Cl. 173—332.)

3. The combination with a receptacle having conductors therein, a door for the receptacle having a projection thereon, and a plug member having contact members therein that are adapted to engage the contact members in the receptacle, of a normally closed short-circuiting



switch in the receptacle, and means adapted to be engaged by the projection on the door to open the switch when the door is opened to permit the insertion of the plug member in the receptacle.

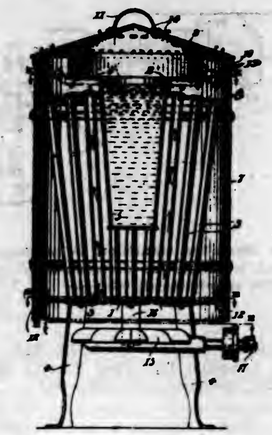
1,384,492. VIOLIN. REUBEN A. SIVARD, Oklahoma, Okla. Filed Dec. 8, 1919. Serial No. 343,268. 1 Claim. (Cl. 84—274.)



A violin including an arched front and arched back, said front and back engaging each other on a meeting plane without the interposition of the usual side walls, the back being provided on its outer or rear surface with an enlargement extending from its upper end downward with diminishing taper to the point of full total thickness of said violin, the outer or rear surface of the enlargement being in the same plane as the center of the arch formed by the back, a neck abutting the upper ends of said front and back and the upper end of said enlargement and glued thereto, and a back plate glued to said enlargement and neck.

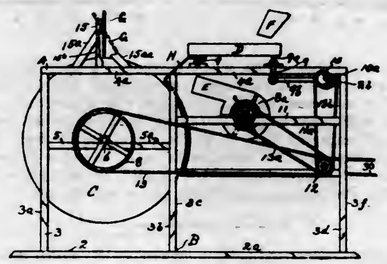
1,384,493. GAS-HEATER. JOHN L. SKUTTLE, Mason City, Iowa. Filed Feb. 5, 1921. Serial No. 442,732. 6 Claims. (Cl. 126—90.)

1. In a heater of the character described, a plurality of heating flues, head and base plates connecting the flues, a heater disposed beneath the base plate, a casing inclosing the plates and flues, there being a central open-



ing in said head plate and a tapering water receptacle suspended within the head plate opening.

1,384,494. RAISIN-CLEANER. WILLIAM STONER, Fresno, Calif. Filed Mar. 24, 1920. Serial No. 368,388. 3 Claims. (Cl. 130—18.)

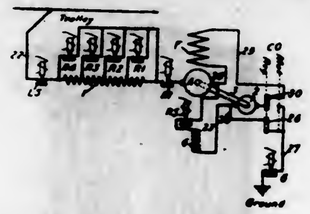


1. In a device of the character described the combination of a rotatable drum having a smooth outer surface and a plurality of pins extending radially therefrom, means for rotating the drum, a shaker adapted to deposit fruit to be cleaned upon the periphery of the drum at a point thereon where its rotation gives the periphery an upward movement, a fan adjusted to direct a current of air approximately toward the periphery of the drum and adjacent to the discharge of the shaker, substantially as described and for the purposes set forth.

1,384,495. SYSTEM OF CONTROL. NORMAN W. STORER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 17, 1918. Serial No. 258,540. 5 Claims. (Cl. 172—179.)

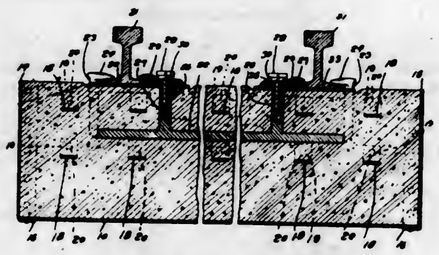
1. In a system of electric-vehicle control, the combination with a supply circuit and a dynamo-electric machine having an armature and a field winding, of means for initiating regenerative braking of the vehicle from rest down a grade including the manual establishment of exciting connections for said field winding and the manual

connection of a high-resistance circuit including said machine across the supply circuit, and means for excluding resistance from the machine circuit as the vehicle speed



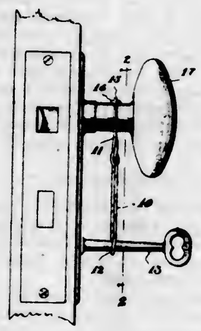
increases to effect the transition to regeneration under certain speed conditions, as determined by the exciting-circuit and the supply-circuit voltages.

1,384,496. REINFORCED-CONCRETE TIE. DENIS R. SULLIVAN, Longville, La. Filed Nov. 17, 1920. Serial No. 424,726. 6 Claims. (Cl. 238—98.)



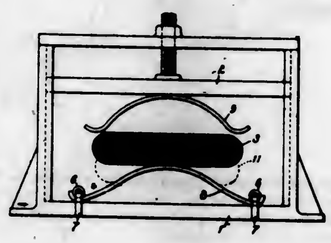
1. In a device of the class described, a body portion, reinforcing devices extending therethrough, and an additional reinforcing device including rail supporting elements, and comprising a plate embedded within the body, and rail engaging devices projecting upwardly from the ends of the plate, for engagement with the outer portions of the rail flanges, and means carried by said plate for securing the inner edge portions of the rail flanges.

1,384,497. KEY-HOLDER. EDWIN F. SYMONS, Sloatsburg, N. Y. Filed Mar. 28, 1918. Serial No. 225,249. 1 Claim. (Cl. 70—65.)



A key holder comprising a pair of resilient split rings of different diameters and each having an eye at its bight portion, a chain secured at its ends to the said eyes, the larger ring having an eye on one of its ends and a hook on its other end, and an elongated loop pivotally engaged in the last-named eye and arranged to engage with the said hook when the said hook end is flexed toward the eye end of the ring.

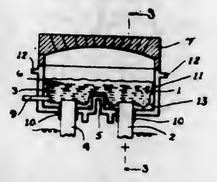
1,384,498. APPARATUS FOR MAKING CONDENSERS. PHILLIPS THOMAS, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 27, 1916. Serial No. 100,391. 8 Claims. (Cl. 100—57.)



1. A press comprising a pair of platens adapted to cooperate to compress an object between them and a curved, resilient pressure-transmitting member attached to each of the said platens and adapted to progressively engage the said object.

6. A press comprising relatively movable platens, a bowed resilient member having portions adjacent to its edges slidably mounted upon one of the platens and its intermediate portions spaced therefrom and a second bowed resilient member carried by the other platen and coöperating with the first bowed member.

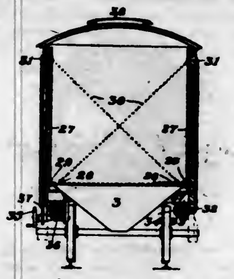
1,384,499. METHOD OF AND APPARATUS FOR REFINING METALS. SAMUEL A. TUCKER, New York, N. Y. Filed May 7, 1920. Serial No. 379,447. 12 Claims. (Cl. 204—19.)



1. A device for refining impure metal, comprising a container for the unrefined metal, a container for the refined metal, means for permitting communication between said containers through an electrolyte and for preventing communication between the metals in said containers.

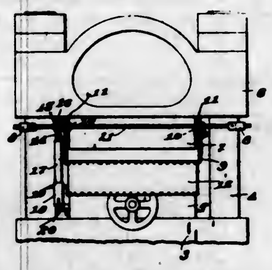
1,384,500. RAILWAY-CAR AND LIKE VEHICLE. JOHN WESTGATE, Brimstage, and CHARLES E. H. HAWKEN, Wallasey, England. Filed Jan. 18, 1919. Serial No. 271,881. 3 Claims. (Cl. 105—243.)

1. In a railway freight-car or like vehicle of the type convertible from a flat into a hopper-bottom vehicle, the combination with the vehicle sides, the side-sills, and hopper bottom, of triangular fillets inserted between the top of the hoppers and the vehicle sides, and a supplemental floor for said vehicle comprising a number of floor doors, each of which is pivotally connected to a



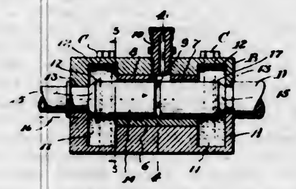
fillet, whereby to close any space between the lower edge of the floor doors when raised and the top of the hoppers.

1,384,501. GUARD FOR PROTECTING MACHINE OPERATORS. WILLIAM WOELFEL, Peabody, Mass. Filed Mar. 9, 1920. Serial No. 364,593. 6 Claims. (Cl. 74—105.)



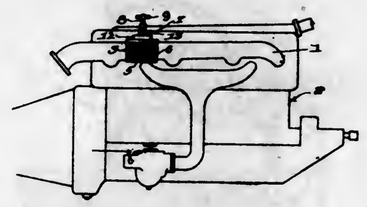
1. A guard device for use with a power press having a movable jaw and a fixed jaw, and comprising a member normally arranged to lie substantially in the plane of the movable jaw, and link and lever connections between such movable jaw and said member so constructed and arranged as positively to move said member simultaneously with and in substantially the same direction as such movable jaw, said connections including a longitudinally extensible member.

1,384,502. JOURNAL-BEARING. JOHN T. YOUNG, Elmira, N. Y. Filed Aug. 3, 1920. Serial No. 400,896. 4 Claims. (Cl. 64—24.)



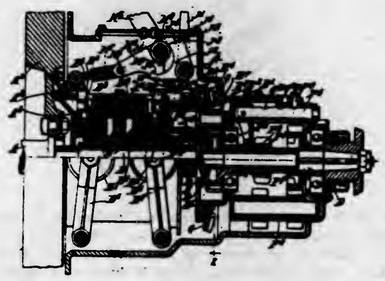
1. A device of the class described comprising a box, a shaft passing therethrough and journaled therein, said box being formed with lubricant-receiving wells into which said shaft is adapted to dip, bevels formed on said shaft at points where said shafts dip into said wells, said bevels being inclined upwardly and toward the bearing point of said shaft, to cause the lubricant to form beads on said shaft.

1,384,503. VULCANIZER. WINSTON RISTORIA YOUNGER, Alexandria, La. Filed Sept. 11, 1920. Serial No. 409,528. 3 Claims. (Cl. 18—18.)



1. A device of the character specified, comprising a base of heat conducting material having at one end a notch or recess for receiving the exhaust pipe of an internal combustion engine, means for clamping the pipe in the recess, an arm connected to that end of the base adjacent to the notch or recess and overlying at its front end the base at the opposite end, said base forming the fixed jaw of the vulcanizer, a screw threaded through the overhanging portion of the arm, a movable jaw rotatably connected with the screw to be moved toward and from the base.

1,384,504. CHANGE-SPEED GEAR. GILLIS VON ZWEIGBERGK, St. Annes on Sea, England. Filed July 23, 1918. Serial No. 246,356. 7 Claims. (Cl. 172—239.)

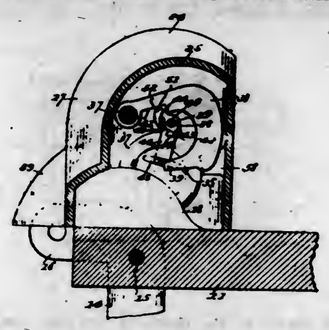


1. In an epicyclic change-speed gear the combination with one element of an epicyclic train of gearing, of a compound wound dynamo-electric machine whereof the armature is rotatively engaged with said element, the shunt winding is separately excited and the series winding is connected across the armature in such manner as to reinforce the shunt field when the armature is driven by said element, substantially as set forth.

1,384,505. SWITCH-STAND LOCK. NOAH J. BECKNER, Seattle, Wash., assignor to Progressive Commodity Company, Seattle, Wash., a Corporation of Washington. Filed Nov. 27, 1920. Serial No. 426,840. 23 Claims. (Cl. 246—414.)

1. The combination with an operating member movable into or out of an operative position, of means for preventing the movement of the member from its inoperative position including a rigid abutment disposed in spaced relation to the operating member when in its inoperative position, a key operated obstructing member movable into the space between the abutment and the operating mem-

ber or out of such space, a weight operatively engaging said obstructing member and locking the obstructing mem-



ber from movement out of its obstructing position, and key actuated means for lifting the weight out of its obstructing position.

1,384,506. ANTIRATTLING DEVICE FOR AUTOMOBILE-DOORS AND THE LIKE. CHARLES C. BLACKMORE, Dayton, Ohio. Filed Nov. 22, 1920. Serial No. 425,662. 8 Claims. (Cl. 16—77.)



3. In a device of the character described, a pair of abutments adapted to be mounted on a door frame on opposite sides of the keeper of a latch and each having a contact surface extending obliquely both to a horizontal plane and to a vertical plane parallel with the door frame, a second pair of abutments adapted to be mounted on a door on opposite sides of the bolt of said latch and each having an oblique contact surface arranged to engage the contact surface of the corresponding abutments of the first mentioned pair when said door is in its closed position, the abutments of one pair being yieldable.

1,384,507. BINDER CONSTRUCTION. HIERONYMUS BRANHARD, St. Louis, Mo., assignor to George B. Gannett, University City, Mo., and Archibald B. Lewis, St. Louis, Mo. Filed Nov. 10, 1920. Serial No. 423,168. 4 Claims. (Cl. 129—23.)



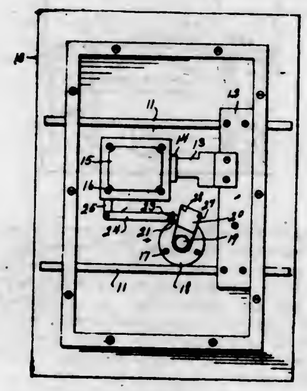
1. In apparatus of the class described, in combination, a screw, a cylindrical member adapted to coöperate with said screw, and a nut or cap adapted to coöperate with said screw and having a shoulder engaging in a recess in the cylindrical member.

1,384,508. TIRE-CORE. WALTER A. BLACK, Rocky Ford, Colo. Filed Feb. 25, 1920. Serial No. 361,197. 6 Claims. (Cl. 152—5.)



3. A core of resilient material containing a series of spaced chambers extending from each side thereof, the chambers of one series being positioned in staggered relation to those of the other, each of the chambers of each series being formed of a major cavity open to a side of the core and extending thereinto and a smaller cavity extending therefrom farther into the core between chambers of the other series, and there being circumferentially-extending ribs above and below the two series of smaller cavities and between the two series of major cavities.

1,384,509. SAFE. ARTHUR FRED BLECKSMITH, Dayton, Ky. Filed July 31, 1920. Serial No. 400,367. 2 Claims. (Cl. 109—3.)

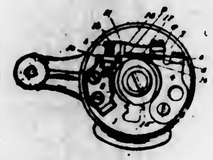


1. The combination with a door of the class described embodying the usual shiftable locking bolts adapted to be shifted to locked and unlocked positions, and a combination lock controlling the shifting of said bolts, of a bar secured to said bolts to be shifted thereby, a plate secured to said door adjacent said bar and embodying a pivot pin, a counterweight pivotally mounted upon said pivot pin and inclining toward said bar, said counter weight being adapted when released to fall toward and engage said bar and prevent shifting thereof, the upper end of said counter weight being squared and having the leading shoulder thereof adapted to clear said bar during pivotal movement of the counter weight and the following shoulder adapted to engage directly with said bar and means for holding said counterweight against movement connecting said counter weight with the lock.

1,384,510. CIRCUIT-BREAKER. HENRY E. BORGER, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Sept. 9, 1918. Serial No. 253,250. 3 Claims. (Cl. 200—19.)

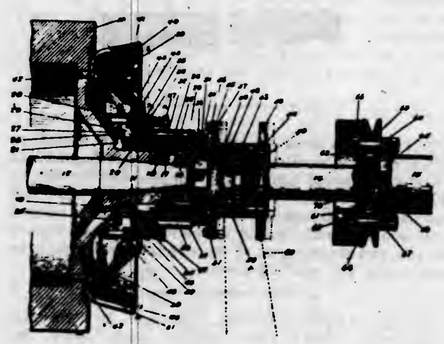
1. In a circuit breaker, the combination of a breaker box carrying two brackets, one of which is insulated there-

from, an adjustable contact carried by the insulated bracket, said second bracket having two arms displaced laterally and longitudinally from each other, a spring having little inertia mounted on one of said arms and carrying a contact to coöperate with said adjustable con-



tact, a spring mounted on the other arm and carrying a part normally positioned on the bracket carrying the adjustable contact and extending to a position closely adjacent the low inertia spring but not in engagement therewith and a cam for moving the spring on said other arm and said part carried thereby into engagement with the low inertia spring to open said contacts as described.

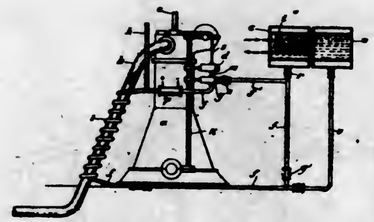
1,384,511. CLUTCH. LAWRENCE R. BUCKENDALE, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Oct. 14, 1919. Serial No. 330,670. 4 Claims. (Cl. 192—53.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. A compound clutch having in combination with a drive shaft, a friction clutch member, a positive clutch sleeve having splines, and a bearing member mounted to rotate with the shaft, a coupling member having splines for engagement with the clutch sleeve splines, a sliding collar secured to the coupling member and mounted for rotary and longitudinal movement on the bearing member, a friction clutch member mounted on the sliding collar for yielding engagement with said friction clutch member mounted to operate with said shaft and a driven member connected to said coupling member.

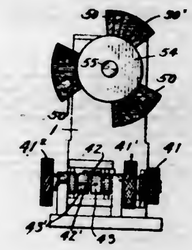
1,384,512. ENGINE-FUEL-SUPPLY SYSTEM. ALFRED BÜCHI, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 17, 1916. Serial No. 115,396. 12 Claims. (Cl. 123—122.)

1. The combination with an internal combustion engine using normally viscous fuel and a supply source of such fuel, of means for heating and circulating a mass of said fuel in liquid form between the source and the engine whereby the engine is served with liquid fuel drawn from



a circulation of heated oil in excess of its immediate requirements.

1,384,513. APPARATUS FOR COMPARING, MATCHING, AND MEASURING SHADES AND COLORS. HIBBARD S. BUSBY, South Manchester, Conn., assignor to Cheney Brothers, South Manchester, Conn., a Corporation of Connecticut. Filed June 8, 1920. Serial No. 387,485. 20 Claims. (Cl. 88—14.)

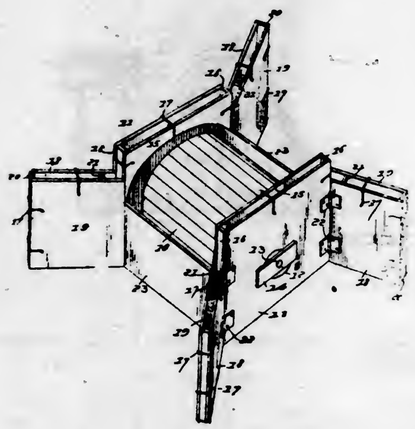


1. In an apparatus of the class described, the combination of primary, secondary and tertiary sectors fixed against axial movement relatively to one another, means for rotating said sectors simultaneously about a common axis, and means for angularly adjusting at least two of said sectors relatively to each other and to the third sector while they are being rotated, said means for adjusting each adjustable sector being independent of the means for adjusting any other sector.

1,384,514. BRIDGE AND CULVERT FORM. JAMES T. CLOSE, Newkirk, Okla. Filed Sept. 4, 1920. Serial No. 408,136. 4 Claims. (Cl. 25—131.5.)

1. A form for building bridges, culverts and the like including an arch form, end walls adapted to be disposed against the ends of the arch form and clamped thereto, inner walls disposed above the arch form and spaced from the end walls, spacing blocks spacing these inner walls from the end walls at the ends thereof, detachable clamps holding the end walls and inner walls in conjoint relation, molds for the wing walls comprising detach-

able outer and inner walls held in spaced relation from each other, and clamps holding the walls in conjoint
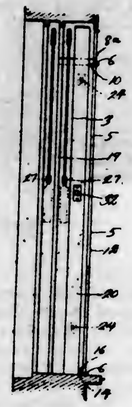


relation, the inner wall of each of the wing forms being detachably hinged to the outer end walls of the culvert form.

1,384,515. PAPER TOWEL. CONRAD M. CONRADSON and PRENTICE CONRADSON, Madison, Wis. Filed July 6, 1920. Serial No. 394,093. 4 Claims. (Cl. 92—68.)

1. As a new article of manufacture, a paper towel having a plurality of openings therein, the edges of said openings being rough and exposed for absorbing the moisture contacting therewith.

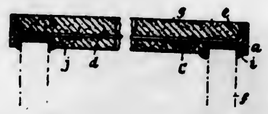
1,384,516. WINDOW-FRAME. EVERETT CRESSE, Omaha, Nebr. Filed June 29, 1920. Serial No. 392,801. 1 Claim. (Cl. 20—12.)

The combination with a window frame having upper and lower sashes slidably mounted therein between outer stops, inner stops and parting strips, said parting strips being carried by pivoted jamb sections, said jamb sections being pivoted adjacent the inner facing of the frame, the inner stops being provided with L-shaped lugs adapted to engage plates carried by the pivoted jamb sections, said inside stops terminating spaced from the top of the frame thereby allowing the L-shaped lugs to be moved out of engagement with the plates of the pivoted jamb sections, and spring actuated pins carried by the



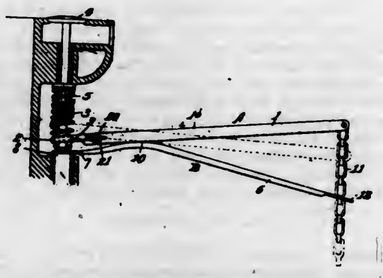
inside stops and adapted to engage apertures in the pivoted jamb sections for holding the L-shaped lugs in engagement with the plates of the pivoted jamb sections.

1,384,517. OVERBOX-COVER. HENRY R. CREWS, Totowa borough, N. J. Filed Apr. 23, 1921. Serial No. 463,930. 2 Claims. (Cl. 72—7.)



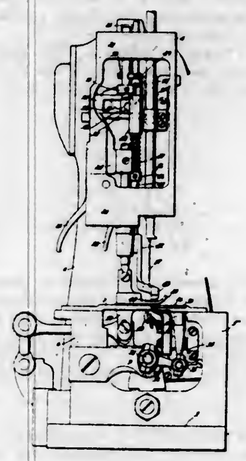
2. An overbox cover consisting of a flat slab of concrete and a marginal continuous metal wall surrounding and bearing all around against the concrete and having its vertical dimensions not less than that of said slab, said slab having in its under side a continuous groove parallel with said wall and adapted to receive the upper edge of the box, and the material of the slab intervening between said groove and wall all around.

1,384,518. VALVE-LIFTER. RICHARD L. CRISWELL, Lakewood, Ohio. Filed July 3, 1920. Serial No. 393,899. 6 Claims. (Cl. 29—86.3.)



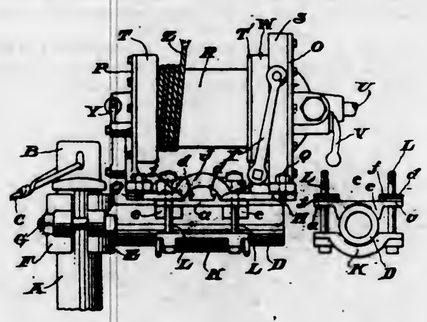
1. In a valve lifter, a lifting bar comprising a handle portion composed of connected companion channel members arranged in telescoping relation and terminated at one end by jaws for engagement with a valve spring, means for relatively adjusting said members, and a fulcrum element associated with said bar.

1,384,519. FABRIC CUTTING AND STITCHING MACHINE. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Dec. 22, 1917. Serial No. 208,377. 29 Claims. (Cl. 112—123.)



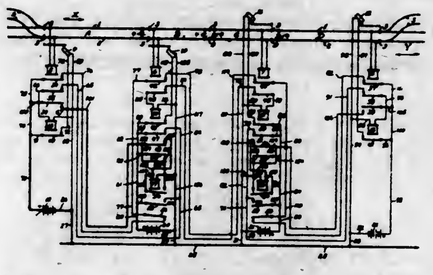
1. In a sewing machine, in combination, a trimming knife effective in a position removed from the general plane of the work, means for deflecting a portion of the body between the edges of one of a plurality of superposed plies to said knife, and means for securing the cut ply to the body of an uncut ply between the edges of the latter.

1,384,520. ADAPTER FOR SADDLE-CLAMPS. JESSE DITSON, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 31, 1921. Serial No. 457,553. 4 Claims. (Cl. 248—3.)



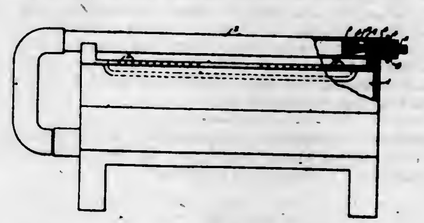
1. As a new article of manufacture, an adapter for bar and column saddle clamps in the form of a cross bar saddle comprising a body portion having spaced centering lugs projecting from one face and clamping jaws projecting from the opposite face, the longitudinal axes of said lugs and jaws being substantially at right angles to each other, whereby a machine or other element may be secured to a bar or column either longitudinally or transversely of the said bar or column by means of the same set of clamps.

1,384,521. ABSOLUTE PERMISSIVE BLOCK-SIGNALING SYSTEM. FRANK L. DODGSON, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Oct. 15, 1915. Serial No. 56,047. 10 Claims. (Cl. 246—33.)



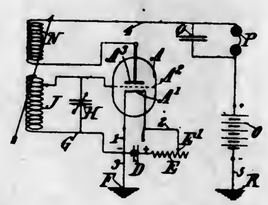
3. In a block signal system for single track railroads, three adjacent track sections each having a track relay, a stick relay, a pick-up circuit for the stick relay controlled by the track relays of two adjacent track sections, a preliminary stick circuit controlled by one of said two track relays, and a final stick circuit controlled by the other of said two track relays and the track relay of the third track section.

1,384,522. VAPORIZER FOR OIL-BURNERS. CHARLES E. ECKERLE, Birmingham, Ala. Filed July 17, 1920. Serial No. 396,924. 6 Claims. (Cl. 158—53.)



1. A vaporizer for hydrocarbon oils comprising a vaporizing tube, a conical plug therein providing a fine marginal clearance between its inner end and the tube, and means to feed the oil to be vaporized between the plug and inner wall of the tube, substantially as described.

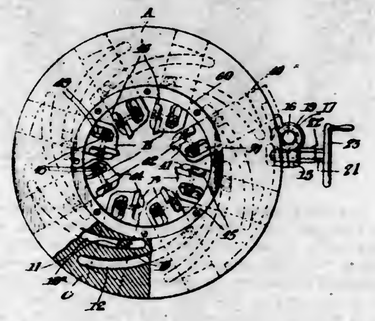
1,384,523. WIRELESS SIGNALING APPARATUS. ATHELSTAN ARGYLE HALL, London, England. Filed Nov. 1, 1919. Serial No. 335,072. 3 Claims. (Cl. 250—3.)



1. Wireless signaling system comprising in combination, an oscillation valve, a source of current connected to the cathode for heating the same, an oscillatory circuit connecting the grid with the cathode, a plate-filament circuit arranged to carry high-frequency oscillations

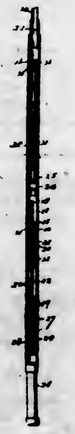
connecting the anode of the valve with the cathode and comprising two earth connections spaced apart, the portion of earth between said connections constituting in effect the receiving or transmitting portion of the system, and a signaling device associated with said plate-filament circuit.

1,384,524. CUTTER-HEAD. LESLIE SAMUEL HALL, Brantford, Ontario, Canada. Filed Dec. 16, 1919. Serial No. 345,438. 3 Claims. (Cl. 10—122.)



3. In a cutterhead, in combination, a head having radial grooves, a plurality of cutter-holders movable in the grooves, a ring, means whereby movement of the ring relative to the head moves the cutter holder inwardly or outwardly, a bracket on the head, a shaft mounted in the bracket, a pinion on one end of the shaft, a worm gear on the opposite end of the shaft, a rack on the ring engaging the pinion, a shaft extending transversely to the first mentioned shaft, and suitably journaled in the said bracket, a worm on the said last mentioned shaft engaging the worm wheel, and means for turning the said last mentioned shaft.

1,384,525. OIL-WELL MECHANISM. WILLIAM E. HANCOCK, Tulsa, Okla. Filed Nov. 30, 1920. Serial No. 427,331. 4 Claims. (Cl. 103—64.)



1. In an equipment for oil wells, a sectional tubing, couplings between the sections of the tubing, an oil intake pipe extending through the lowermost coupling, means for protecting the end of said intake pipe and the direct flow of oil thereto, a valve seat on the upper end of the intake pipe, a valve coacting therewith, means for holding the valve in operative relation to its seat, a deflector extending downwardly from a point above the valve seat supported in spaced relation to the tubing whereby an annular chamber is formed between the deflector and the tubing, a working barrel above the said deflector having ports in its side, and a means secured to the upper end of the working barrel and having lugs engaging the interior wall of the tubing for holding the discharge pipe in spaced relation to the tubing.

1,384,526. SAFETY DEVICE FOR FASTENERS. MONROE KEETON, Meridian, Miss. Filed Feb. 24, 1921. Serial No. 447,580. 1 Claim. (Cl. 24—90.5.)



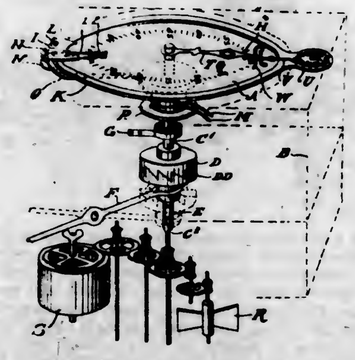
In combination, a cuff button having a shank and enlarged ends, an ornamental guard chain attached to one of said ends, said chain being adapted to pass around the two adjacent edges of the material of a cuff, said chain carrying means to lock itself to one of the enlarged ends of the cuff button by inserting same through said locking means.

1,384,527. MOTION-PICTURE PROJECTOR. CHARLES KESSES, New York, N. Y. Original application filed Sept. 25, 1917, Serial No. 193,180. Divided and this application filed Apr. 11, 1918. Serial No. 227,867. 2 Claims. (Cl. 88—17.)



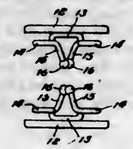
1. In a motion picture machine, a film gate, a rail horizontally disposed on said gate and film guides slidably mounted on said rail, as and for the purpose set forth.

1,384,528. PHOTOGRAPHIC EXPOSING-CLOCK. CHARLES KESSES, New York, N. Y. Filed Oct. 21, 1920. Serial No. 418,553. 4 Claims. (Cl. 161—26.)



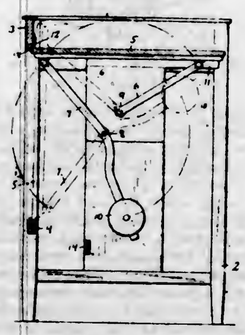
1. In combination with a time clock, having a dial with a switch operating device, a frame having two hinged parts, one part containing the clock operating mechanism and the other part carrying the dial the two parts so arranged that the switch operating device and clock operating means are connected by a clutch on the closing of the frame, substantially as set forth.

1,384,529. SEPARABLE CUFF-BUTTON. ANDREW J. KENEDY, Chicago, Ill. Filed Sept. 1, 1920. Serial No. 407,331. 3 Claims. (Cl. 24—102.)



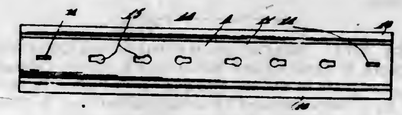
3. A separable cuff button, comprising a pair of mating links, each of said links composed of a head adapted to engage with the outer side of a cuff, and a spring wire member bent and swaged to form a central shank secured to said head and adapted to lie in the button hole, a pair of loop-shaped guards continuous with said shank and adapted to lie crosswise of the button hole on the inner side of the cuff, and a pair of inwardly extending arms continuous with said guards respectively and inclined toward each other, said arms terminating in ball-shaped ends which lie substantially in contact with each other, the ball-shaped ends of the arms of the two links adapted to spring past each other into interlocked relation.

1,384,530. DESK FOR BOOKKEEPING-MACHINES, &c. JOHN H. KNAUFT, Milwaukee, Wis. Filed Mar. 15, 1920. Serial No. 365,751. 4 Claims. (Cl. 45—6.)



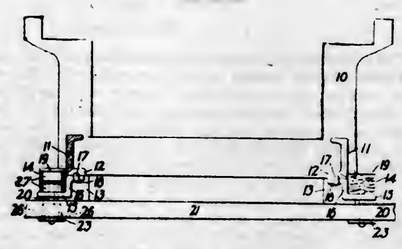
1. The combination in a desk of ends, a back, a movable top adapted to be moved from a substantially horizontal position to a substantially vertical position, or vice versa, a plurality of links pivoted non-concentrically on each end of the desk pivoted to the top of the desk, stops for limiting the movements of the top of the desk, and counterbalance mechanism connected with the top in such a manner as to leave the space between the ends substantially unobstructed.

1,384,531. TIE. HENRY THEODORE KAUAE, Gull Lake, Saskatchewan, Canada. Original application filed Feb. 3, 1920, Serial No. 356,010. Divided and this application filed June 14, 1920. Serial No. 388,862. 3 Claims. (Cl. 238—75.)



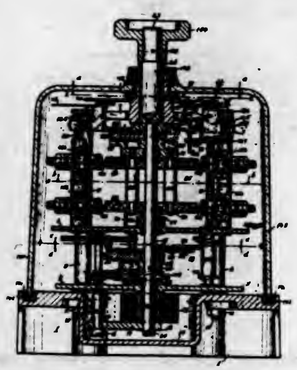
1. The combination with a tie having a slot adjacent each end thereof, of a pair of anchoring members each having an end inserted through one of said slots and turned over to engage the end of the tie adjacent the slot.

1,384,532. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 9, 1919. Serial No. 343,666. 7 Claims. (Cl. 248—30.)



1. The combination with a typewriting machine having a frame, of resilient feet upon said frame, a base upon which said feet rest, lugs on said frame, springs resting upon said lugs, and means on said springs and connected to said base for compressing the springs to press the feet to said base.

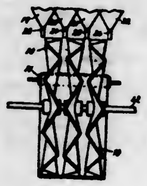
1,384,533. TIME-RELEASE MECHANISM. RICHARD C. LEAKE, Rochester, N. Y., assignor to General Railway Signal Company, Gat s, N. Y., a Corporation of New Jersey. Filed Aug. 31, 1917. Serial No. 189,088. 47 Claims. (Cl. 200—38.)



1. In a clockwork time release, in combination; circuit controlling means comprising a movable element and a plurality of contacts adapted to be changed so as to be either opened or closed in either of two extreme positions of the movable element, means for automatically

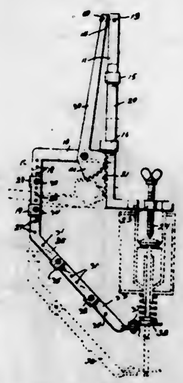
operating said circuit controlling means; a timing mechanism for limiting the speed of said automatic operation; and means for rendering said timing mechanism ineffective after said movable element has made a predetermined portion of its entire movement from one extreme position to the other.

1,384,534. SURFACING-MACHINE FOR ROOFING. LOWELL F. LINDLEY and ALEXANDER S. SPEER, Chicago, Ill., assignors to The Roofing Patents Company, Buffalo, N. Y., a Corporation of Delaware. Filed Apr. 7, 1920. Serial No. 371,981. 9 Claims. (Cl. 91—20.)



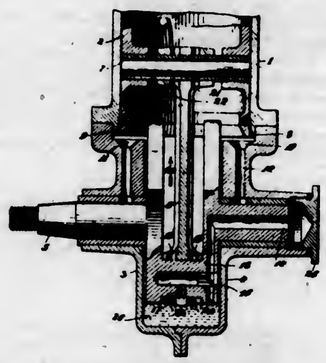
1. In a surfacing machine, a disk mounted to rotate, and means for passing roofing material provided with an adhesive coating about said disk in contact with an arc of the edge thereof, the disk serving as a marker for impressing a continuous pattern defining line on the material extending longitudinally the full length thereof, and means for feeding granular material at each side of the disk, the disk serving as a partition to separate the material at one side thereof from the material at the other throughout the length of the material, whereby the material will be provided with a pattern consisting of continuous areas extending longitudinally and the full length thereof and separated from each other by the defining line.

1,384,535. VALVE-LIFTING DEVICE. WILLIAM WALLACE MCNAUGHTON, Billings, Mont. Filed Feb. 16, 1920. Serial No. 358,823. 5 Claims. (Cl. 29—86.3.)



5. An adjustable valve lifter and spring compressor comprising a supporting member adapted to be disposed over the upper end of an engine cylinder and having a horizontal portion and a vertical portion, the horisontal portion being provided with a plurality of screw-threaded apertures, a screw adjustable in any one of said apertures, the vertical portion of the supporting member being toothed and having a horisontally disposed loop, a second member formed in sections, one of said sections having a vertical portion carrying a horisontally disposed loop, the vertical portion being adapted to be engaged with the loop of the vertical portion of the supporting member, and the loop of the said section of the second named member being open and adaped to be engaged with the vertical portion of the first named member, a second section vertically adjustable upon the first named section and having its lower end extending downward and toward the axis of said screw, and a third section slidably mounted upon this downwardly and laterally extended portion of the second named section for adjustment longitudinally thereof along, said third named section at its lower end having a horizontally disposed claw adapted to be disposed beneath and in alinement with the screw and to embrace a valve stem and to be disposed beneath the spring thereof, and a lever mounted upon the first named section of the second member and having a sector gear engageable with the teeth on the vertical portion of the first named member.

1,384,536. LUBRICATING DEVICE. BERT L. MADDEN, Rochester, N. Y., assignor to Cyclemotor Corporation, Rochester, N. Y., a Corporation of New York. Filed Oct. 25, 1919. Serial No. 333,412. 3 Claims. (Cl. 184—11.)

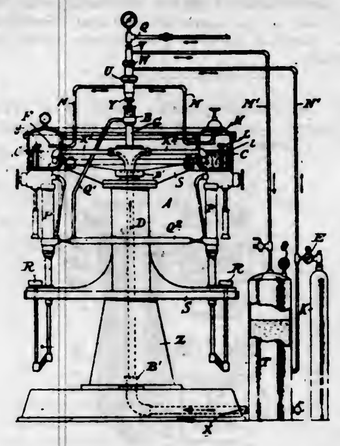


1. In an engine, in combination: a cylinder, a piston within said cylinder; means for depositing a lubricant on the walls of the cylinder, said lubricant when the engine is in operation working down to the bottom edges of the cylinder and the piston; a crank case beneath the cylinder formed with a cavity under the said bottom edges for receiving said lubricant; a crank shaft; a bearing for the crank shaft formed with a cavity, said crank case formed with a duct leading from said first mentioned cavity to said crank shaft whereby the lubricant is conducted to said crank shaft; a connecting rod embracing the crank and connected with the piston; said crank shaft formed with a duct from its end to the bearing surfaces between the crank shaft and the connecting rod, said second mentioned cavity allowing the lubricant to pass from the crank shaft bearing to the duct in the crank shaft and so to the bearing surfaces at the connection of the crank shaft and connecting rod.

1,384,537. BOTTLE-FILLING APPARATUS. FRED. W. MÜLLER, Hoboken, N. J. Filed Oct. 21, 1919. Serial No. 332,246. 4 Claims. (Cl. 226—93.)

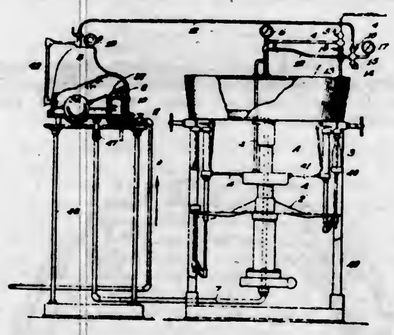
1. In an apparatus for filling bottles with a gas-charged liquid, the combination, with a tank partly filled with such liquid and means for connecting a bottle mouth with the

liquid containing zone of said tank, of a second tank of relatively considerable capacity, a pipe of relatively



small cross-section leading therefrom to a point in the partly filled tank near the top thereof, and a blow-off valve connected to said second tank.

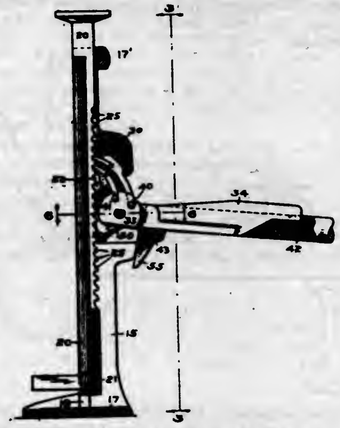
1,384,538. BOTTLE-FILLING APPARATUS. FRED. W. MÜLLER, Hoboken, N. J. Filed Oct. 28, 1919. Serial No. 333,922. 8 Claims. (Cl. 226—93.)



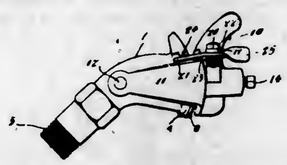
1. In a bottle filling apparatus designed to handle gas charged liquids the combination, with the main tank to which the bottles are connected for filling, of a conduit for delivering the liquid thereto of relatively large and substantially unobstructed cross section and delivery port, a quick acting valve in said conduit of approximately the same area of opening, and pressure operated means controlled by the rise and fall of the level of the liquid supplied to the tank to quickly open and quickly close said valve.

1,384,539. LIFTING-JACK. ALBERT NEAL, Kokomo, Ind. Filed Jan. 28, 1921. Serial No. 440,777. 4 Claims. (Cl. 254—110.)

1. A lifting jack comprising a frame, a movable tooth lifting bar guided in said frame, an actuator lever oscillatively supported in said frame, a pair of pawls pivotally supported in the end of the actuator lever and adapted to alternately engage the lifting bar when the lever is oscillated, said lever capable of being depressed a sufficient distance to disengage both pawls for releasing and freeing the lifting bars, and means carried by the actuator lever for imparting a frictional contact for controlling the downward movement of said bar.



1,384,540. NOZZLE. JOHN F. REEVES, Oxnard, Calif. Filed Nov. 13, 1920. Serial No. 423,832. 3 Claims. (Cl. 251—19.)



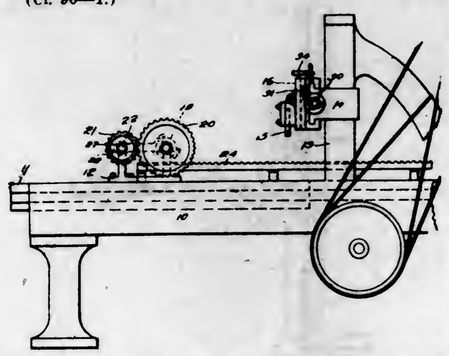
1. In a nozzle, a hollow body having a curved plate at one end provided with an orifice, a curved valve plate slidably fitting the orifice plate, a handle having a spring chamber, a plate in the spring chamber, a spring inserted in the spring chamber between the last named plate and the valve plate, a nut mounted in the handle, a screw engaging the nut and having its inner end seated against the plate in the spring chamber, and arms provided on the handle and pivoted to the body.

1,384,541. GEARING. HENRY J. SCHMICK, Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 16, 1920. Serial No. 374,468. 9 Claims. (Cl. 74—41.)



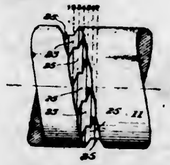
1. A gear having teeth with their working faces composed of a series of adjoining elementary surfaces of curvilinear form each consisting of coaxial arcs disposed in parallel planes substantially at right angles to the axis of rotation of the gear, respective centers of curvature of said elementary surfaces being non-concentrically dispored about said axis.

1,384,542. ART OF AND APPARATUS FOR FORMING GEAR-TEETH AND THE LIKE. HENRY J. SCHMICK, Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 29, 1920. Serial No. 377,688. 11 Claims. (Cl. 90—1.)



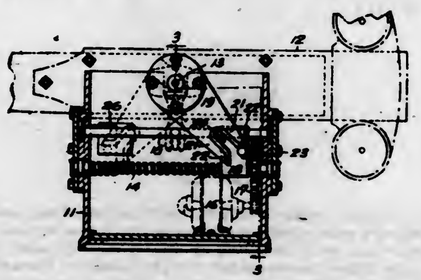
1. The art of forming gear teeth, cam grooves, and the like, by moving the blank to be formed transversely of its axis of rotation in a straight line path toward the cutter and rotating it on its axis at a fixed ratio of angular velocity with reference to the speed of movement toward the cutter.

1,384,543. GEARING. HENRY J. SCHMICK, Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del., a Corporation of Delaware. Filed June 2, 1920. Serial No. 386,060. 12 Claims. (Cl. 74—41.)



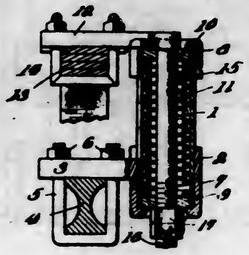
1. A member having an axis of rotation and a peripheral groove with side walls which comprise a series of angularly spaced elementary plane surfaces extending transversely of the axles of rotation and successively spaced in the direction lengthwise of the axis.

1,384,544. CROSSING-GATE. CHARLES H. TILLETT and THOMAS A. ALLAN, Montreal, Quebec, Canada. Filed Mar. 5, 1920. Serial No. 363,465. 11 Claims. (Cl. 39—7.)



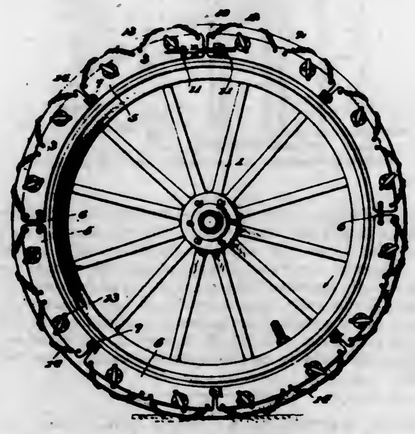
1. In a device of the character described, the combination with a member to be operated and a motor driven worm of an operative connection between the worm and the member adapted to be continuously actuated by the worm during the operation of the motor and including engaging parts capable of relative movement in the line of nut travel only at the commencement and completion of the motor operation, so as to give free run to the motor at such times.

1,384,545. SHOCK-ABSORBER. STANLEY J. VESELY, Cedar Rapids, Iowa. Filed Oct. 3, 1919. Serial No. 328,256. 2 Claims. (Cl. 267—19.)



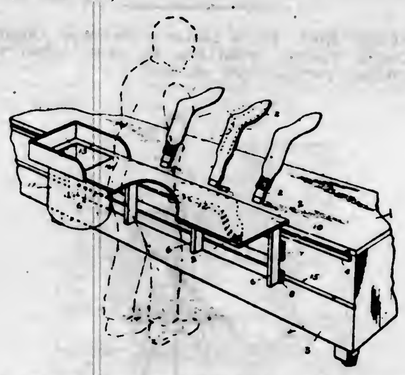
1. A shock absorber for motor vehicles comprising a supporting arm adapted to be attached to the axle of the vehicle, a slotted cylinder carried by said arm, a coiled spring mounted within said cylinder, a washer mounted within said cylinder at each end of said spring and an arm carried by the spring of the vehicle extending into the slot of said cylinder having a rod extending through said washers and spring and provided with means at one end for adjusting the tension of said spring within said cylinder.

1,384,546. WHEEL-TRACTION DEVICE. JOHN WESLEY WHITE, Lewistown, Mont., assignor of one-half to William D. Rose, Lewistown, Mont. Filed Oct. 9, 1920. Serial No. 415,713. 5 Claims. (Cl. 152—14.)



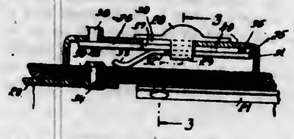
3. A traction device comprising metallic members for the respective sides of the tire casing, each of said members being made up of connected plates, and lugs projecting from the plates, each lug including a wing-like projection set at an angle to the line of traction.

1,384,547. HOSIERY-CARRIAGE. EARL M. WITHERELL, Duluth, Minn., assignor of one-half to F. A. Patrick & Company, Duluth, Minn., a Corporation of Minnesota. Filed July 12, 1920. Serial No. 395,658. 2 Claims. (Cl. 211—12.)



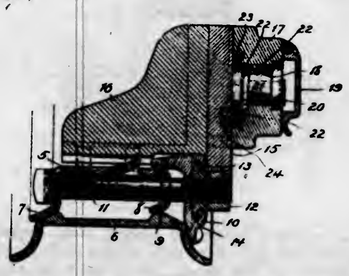
1. In combination; an elevated structure, a horizontally reciprocal carriage supported coöperatively adjacent the structure having a cutaway portion therein whereby the body of a person engaging said cutaway portion of the carriage will automatically cause the same to remain in close juxtaposition to the person when he moves parallel to said structure.

1,384,548. HAND-LAMP SWITCH. ERNEST ALSCHULER, St. Louis, Mo., assignor, by mesne assignments, to National Carbon Company Inc., Cleveland, Ohio, a Corporation of New York. Filed June 9, 1917. Serial No. 173,690. 8 Claims. (Cl. 200—60.)



3. Contact mechanism for battery hand lamps, comprising in combination, a conductor, a resilient contact strip mounted to swing into engagement with said conductor, a push-button on said contact strip, a contact element mounted to slide beneath said contact strip into and out of engagement with said conductor, and a thumbpiece for actuating said contact element and securing said strip and element in position; substantially as described.

1,384,549. AUTOMOBILE-TIRE LOCK. PETER F. AUGENBRAUN, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Mar. 13, 1920. Serial No. 365,519. 8 Claims. (Cl. 70—90.)

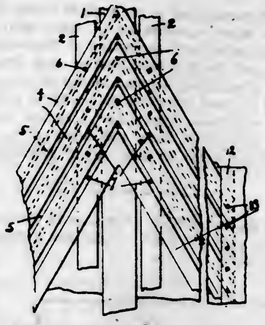


1. In an automobile tire lock, the combination of a bolt casing adapted to be secured to a tire carrier, a bolt carried by said casing and adapted to overlap the rim locking clamp and engage and house a clamp locking nut and a key lock carried by said casing for actuating the bolt.

1,384,550. CHEMICAL PROCESS FOR RECLAIMING FILES, RASPS, AND THE LIKE. JOHN HENRY ALFRED D'ORSINI BOWMAN, Montreal, Quebec, Canada, assignor to Canadian File & Tool Works Limited, Montreal, Canada. Filed Feb. 2, 1920. Serial No. 355,678. 6 Claims. (Cl. 76—24.)

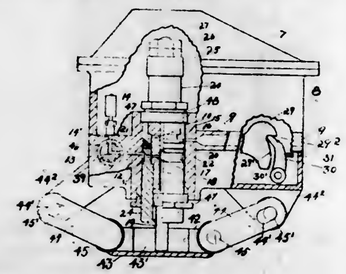
1, A process of sharpening or recutting tools and the like, which consists in immersing the tools in an acid solution capable of evolving a gas which adheres in minute bubbles to the projections of the tool, thus protecting said projections from the full chemical action of the acid solution while allowing said action to take place in the grooves, depressions or other surfaces of the tool.

1,384,551. VEHICLE-TIRE. AMEL B. BROLUSKA and HARRY A. BROLUSKA, Detroit, Mich., assignors of one-third to Cyril Caillian, Detroit, Mich. Filed Apr. 2, 1920. Serial No. 370,760. 11 Claims. (Cl. 152—18.)



2. In a vehicle tire, the combination with circumferential bands and two series of V-shaped plates secured thereto, the plates of one series overlapping the joints of the other series, and rubber within and without the band and plates.

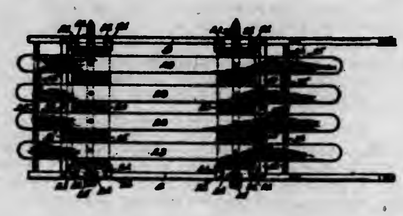
1,384,552. AUTOMATIC TRAIN-CONTROL APPARATUS. ANDREW J. BROOKINS, Chicago, Ill. Filed Apr. 24, 1920. Serial No. 376,355. 25 Claims. (Cl. 246—49.)



13. In a train control system, an apparatus operable on a member of a train adapted to travel on a trackway provided with track side members at intervals along said track way, said train member provided with air under pressure and said air being a controlling element of said system, in combination, a movable member arranged to normally obstruct said passage way, means to release said movable member from said normal position, and said

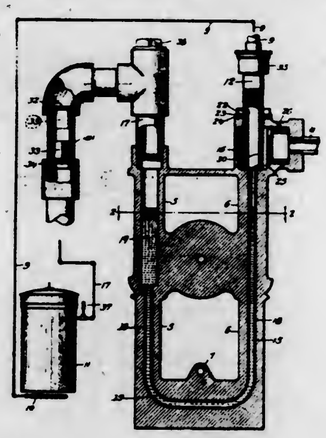
air arranged to yieldingly force said movable member from said normal position, an additional member, manually operable to obstruct said passage way, and a contact member arranged to co-act with said track side members and said movable member to move said additional member from said obstructing position.

1,384,553. COLLAPSIBLE SLED. MAX BROWN, Chicago, Ill. Filed Nov. 10, 1919. Serial No. 337,092. 4 Claims. (Cl. 280—20.)



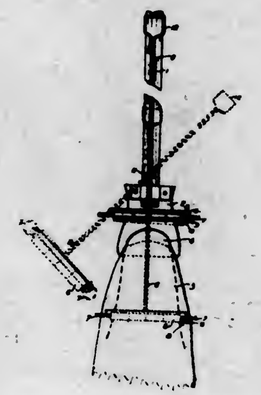
1. A sled comprising a collapsible frame consisting of longitudinal bars; a plurality of knee joint connections between said bars, each consisting of two links pivoted to each other and to said bars, one of said links being provided with a lug, there being a notch in the other link to receive said lug and interlock therewith to prevent further bending of said knee joint; and a spring held catch arranged on said other link and adapted to engage said lug to hold the same in said notch, substantially as described.

1,384,554. REGULATOR. VINCENT D. CARROLL, Chicago, Ill. Filed Aug. 18, 1919. Serial No. 318,355. 1 Claim. (Cl. 236—50.)



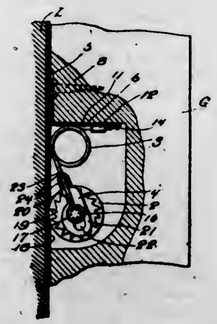
In combination with a pressure reducing liquid receptacle heated by a gas burner, of a gas controller therefor comprising a structure having a U-shaped conduit partially filled with mercury, the conduit extending part way down one leg on the pressure receiving side being much larger than the remainder of the conduit; a gas inlet pipe on the gas controlling side; an enlarged gas chamber between the gas inlet pipe and the gas controlling leg open at its top providing a dam, to prevent mercury from entering the gas inlet pipe; another chamber between the gas chamber and said leg; a vertically adjustable open tube extending into the latter chamber; a pipe extending therefrom to said burner; means to lock the vertically adjustable tube in adjusted position and a float valve to prevent overflow of water from said receptacle into the gas controlling device.

1,384,555. MOP. FRANK LESLIE CUNNINGHAM, Calgary, Alberta, Canada. Filed Feb. 12, 1919. Serial No. 276,496. 1 Claim. (Cl. 15—48.)



In a mop, the combination of a wringing device consisting of a box spring frame substantially rectangular in shape, the sides of the said frame being provided with rollers between which the mop cloth is passed and is compressed, coil spring members joining and formed upon the ends of the sides before mentioned, one of the said coil springs being adapted to be engaged and disengaged from the extended end of the free side so as to form an entrance through which the mop cloth is passed prior to wringing, and eyes formed upon the ends of the wringer frame to which an operating handle is secured, all substantially as described.

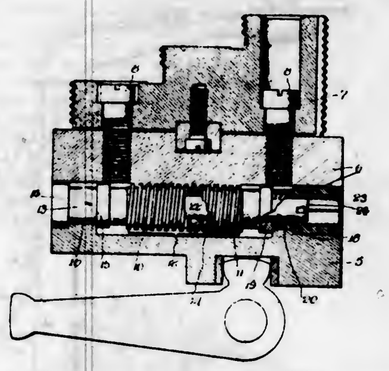
1,384,556. RETAINING DEVICE FOR WINDOW-SASH. WILLIAM M. DUCKER, New York, N. Y., assignor to Ducker Sectional Building Corp., New York, N. Y., a Corporation of New York. Filed Aug. 7, 1916. Serial No. 113,622. 12 Claims. (Cl. 292—77.)



1. A retaining device for window sash, comprising a spring adapted to be fixed to a window sash, a roller carried directly by said spring, the spring being adapted to urge the roller outwardly from the window sash into frictional engagement with a portion of a window frame,

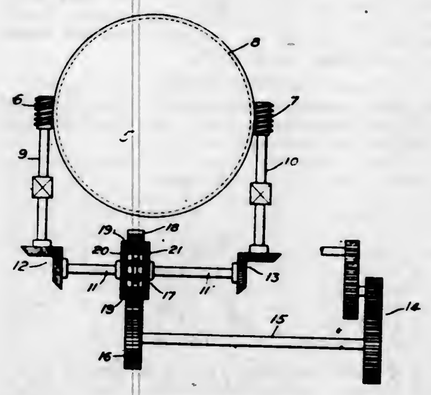
and a separately formed part carried partly by the spring and partly by the roller and interengaging between the roller and a portion of said spring for retaining the roller against rotary movement in one direction.

1,384,557. ADJUSTING AND LOCKING DEVICE FOR CHUCK-JAWS. HANS C. ELVERS, Madison, Wis., assignor to Gisholt Machine Company, Madison, Wis., a Corporation of Wisconsin. Filed Feb. 12, 1921. Serial No. 444,334. 4 Claims. (Cl. 279—112.)



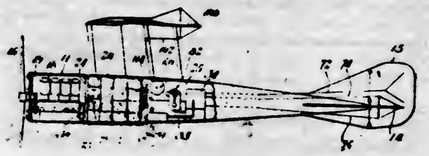
1. The combination with a jaw carrier, and a jaw base mounted for endwise movement on said carrier, of an adjusting screw rotatably mounted in said carrier and drivingly engaged with said base, said screw being formed in two independently rotatable sections disposed end to end, and means whereby said sections may be simultaneously and equally turned in the same direction and whereby also one of said sections may be turned independently relatively to the other.

1,384,558. GEAR-CUTTING MACHINE. LEWIS J. EVANS, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Nov. 22, 1917. Serial No. 203,446. 6 Claims. (Cl. 90—1.)



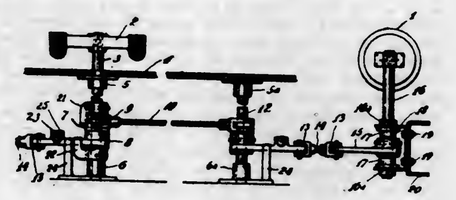
1. In a gear cutting machine, a rotatable work holding table, at least two worms for driving said table, driving means for both of said worms, and differential means operatively connecting said worms for allowing equal and opposite variations in speed between the two worms, whereby the inaccuracies of one drive are compensated for by the other drive.

1,384,559. AERIAL TORPEDO. LLOYD GILES and SIDNEY H. WOODRUFF, Los Angeles, Calif. Filed July 23, 1917. Serial No. 182,175. 8 Claims. (Cl. 244—1.)



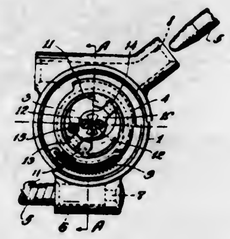
1. An aerial torpedo comprising a fuselage; planes on the fuselage; a rudder on the fuselage; means for automatically controlling the rudder to keep the torpedo in a straight course; elevating mechanism on said fuselage; means for automatically moving said elevator into predetermined positions, said last named means consisting of a rotatable plate, contact segments on said plate, a pendulum arranged to contact with said segments, detent mechanism arranged to engage said plate, timing mechanism for said detent mechanism, a cylinder, a piston in said cylinder, a piston rod, means for connecting said rod to said elevator, a solenoid, electric connections between said solenoid and said pendulum and said segments, a valve on said cylinder, means for controlling the action of said valve by said solenoid, compressed air supply for said cylinder; a charge of explosives in said fuselage; and means for firing said charge after a lapse of a predetermined time.

1,384,560. DIRIGIBLE HEADLIGHT. HARRY M. HALE, Duquesne, Pa. Filed Apr. 6, 1920. Serial No. 371,732. 2 Claims. (Cl. 240—61.)



1. In combination with dirigible headlights of the character described, a rotatably mounted vertical spindle; a plurality of levers loosely positioned upon said spindle and individually acted upon by dogs secured upon said spindle; an operating lever mounted securely on the upper end of said spindle and provided with diametrically disposed pedals, and means for transmitting the motions of said loosely positioned levers to said dirigible headlights.

1,384,561. LOCK. LEON N. HAMPTON, New York, N. Y. Filed Sept. 27, 1920. Serial No. 413,008. 9 Claims. (Cl. 70—17.)



6. In a lock, a casing, a cam mounted within and inclosed by said casing, a shackle, said casing being provided with an opening for the shackle between the cam

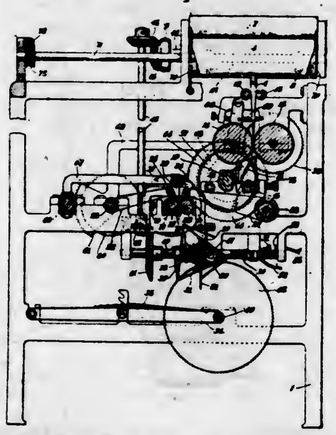
and casing, means for automatically moving said cam into engagement with the shackle to cause the cam to grip the shackle, a lock barrel, means for securing the barrel to the casing and means operatively connected to the lock barrel for moving the cam to inoperative position to release the shackle, the means for securing the lock barrel to the casing preventing abnormal movement of the cam.

1,384,562. SPOOL AND THE LIKE. OSCAR H. HEINIG, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,889. 4 Claims. (Cl. 242—123.)



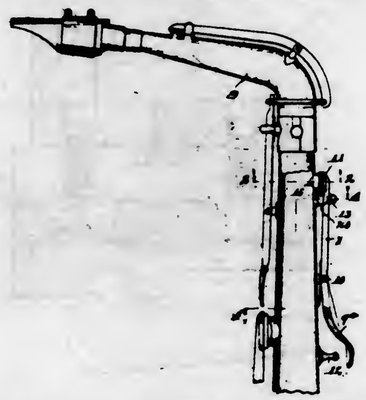
1. As a new article of manufacture, a spool comprising a cylindrical wooden hollow spindle having grain extending in an axial direction, and an end piece for each end thereof, each end piece including a circular wooden hub having a tapered neck of size suitable to enter the spindle with a driving fit and having an outside flange, a circular relatively thin wooden disk having an inner opening of size to receive said flange, the grain of the hub extending in an axial direction with respect to the spindle, and the grain of the disk extending at right angles to the grain of the hub, and a sheet metal facing for the inner face of each of said end pieces comprising a circular sheet metal disk of size appropriate to face the inner face of the end piece and having a peripheral outwardly extending flange adapted to overlie the edge of the disk, the edge of said flange being inturned against the extreme edge portion of the outer face of the disk, and the inner portion of each of said sheet metal faces having a series of inwardly projecting prongs adapted to engage the grain of the end portion of the spindle, substantially as described.

1,384,563. FOLDING-MACHINE. FRANK P. HILDEBRANDT, Saugerties, N. Y. Filed Sept. 14, 1916. Serial No. 120,036. 10 Claims. (Cl. 270—66.)



6. The method of cutting and folding uniform lengths from a web of crape paper which consists in cutting the web into desired lengths while it is without tension, receiving and conveying such cut portions without tension, and folding them without tension while controlled by the conveying operation.

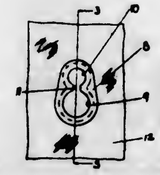
1,384,564. ATTACHMENT FOR REED MUSICAL INSTRUMENTS. GUY B. HUMES, Chicago, Ill. Filed June 30, 1919. Serial No. 307,634. 8 Claims. (Cl. 84—380.)



1. A tone modifying attachment for a key opening of a musical instrument; a support in said opening and communicating therewith; a membrane on said support; and means for retaining said membrane in position, substantially as described.

8. A tone modifying attachment inserted between the key and key opening of a reed musical instrument; a tubular member in said opening; a flanged disk at the outer end of said tubular member and integral therewith; an opening in said flanged disk; a membrane over said opening; a cork ring engaging the inner walls of said flanged disk and holding said membrane in position, said attachment being operated by moving the key into and out of engagement with the flanged disk; a stop on said instrument rotatably mounted adjacent said disk; a projection on said stop; and a handle for moving said projection into and out of engagement with the under side of said key to hold said key disengaged from said flanged disk, substantially as described.

1,384,565. GROMET. FREDERICK D. MARTIN, Kansas City, Mo. Filed May 5, 1920. Serial No. 379,049. 4 Claims. (Cl. 24—141.)

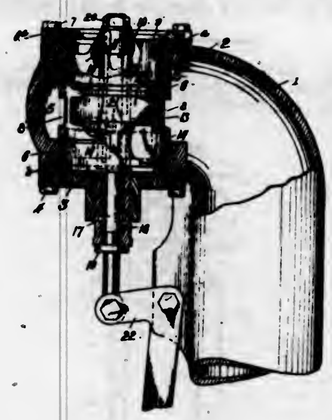


4. A gromet comprising a pair of coöperating members each having an opening formed therein, said opening being restricted intermediate its ends, the opening at one side of said restricted portion being larger than at the opposite side; and a neck integral with and projecting from one of said members and adapted for projection in the opening in the coöperating member, and to be clenched over said coöperating member, said neck corresponding in cross section to the contour of said openings, substantially as described.

1,384,566. PROCESS OF MAKING CONTACT SULFURIC ACID. HENRY F. MERRIAM, Maplewood, N. J., assignor to General Chemical Company, New York, N. Y., a Corporation of New York. Filed Oct. 26, 1920. Serial No. 419,599. 3 Claims. (Cl. 23—1.)

1. The improvement in the method of making sulfuric anhydrid by the contact process, which comprises employing as the raw material for the production of sulfur dioxid, sulfur in the form of brimstone of the Louisiana brimstone type, burning the same to produce gas containing sulfur dioxid and oxygen and conducting said gas over catalytic material until approximately 97–98% conversion has taken place and then absorbing the anhydrid formed, the entire operation from the burning of the gas to the end of the conversion stage being conducted without permitting the temperature of the gas to fall materially below the temperature required for the production of sulfuric anhydrid in the converter.

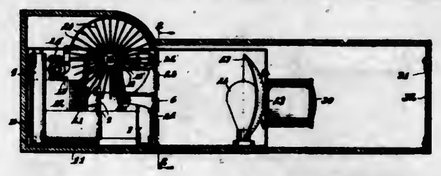
1,384,567. THROTTLE-VALVE. CHARLES J. PILLIOD, Toledo, Ohio, assignor to Daniel Searles, trustee, Toledo, Ohio. Filed Apr. 12, 1920. Serial No. 373,298. 1 Claim. (Cl. 251—78.)



In combination, a fluid pressure line, a cylindrical valve cage removably set into the line and having a set of ports arranged therearound in communication with the interior of the line, a hollow trunk-valve fitted in the cage for axial movements therein, said valve having a hollow hub portion with circumferentially spaced webs radiating therefrom to the rim portion of the valve, a junk-ring carried circumferentially by the valve in position to close the cage ports when the valve is in one position, the valve compressing longitudinally separable sections shouldering against the junk-ring to retain it in position thereon, and with one section provided with ports adapted to uncover the cage ports to the interior of the valve when the valve is moved from closed position, and a valve stem projecting through the valve and from one end thereof without the line and serving to retain the parts of the valve in assembled relation.

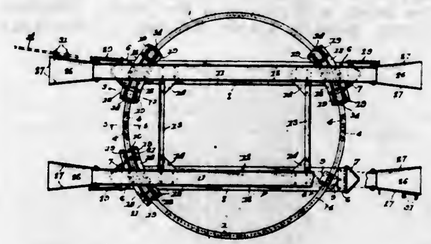
1,384,568. ADVERTISING DEVICE. OTTO PAUL RENZ, Chicago, Ill. Filed Sept. 12, 1919. Serial No. 323,310. 6 Claims. (Cl. 88—24.)

1. In an advertising device, the combination of a movable apron; a rotatable drum having a plurality of leaves secured thereto; means of illuminating said apron and said leaves; and means for directing the light reflected from said apron and said leaves onto a screen; and means



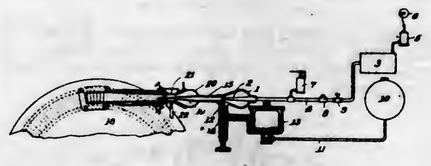
whereby the rotatable drum and the leaves are actuated to produce a moving object upon said screen, substantially as described.

1,384,569. TURNTABLE. MARTIN H. RICE, Moline, Ill. Filed Mar. 5, 1921. Serial No. 449,660. 8 Claims. (Cl. 104—44.)



1. In a turn-table the combination of runners, a circular track mounted on the runners, parallel runways, and truck wheels connected with the runways alongside thereof and extending above their lower sides in position to run on the track and suspend the runways close to the track.

1,384,570. SYSTEM OF SUPPLYING AN EXPLOSIVE MIXTURE TO ENGINES AND TURBINES. ALFRED SCHWARZ, Joplin, Mo., assignor to William Scully, trustee, Brooklyn, N. Y. Filed July 10, 1918. Serial No. 244,183. 8 Claims. (Cl. 60—42.)

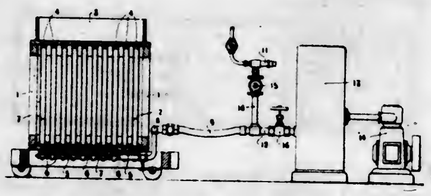


1. In combination, a heat engine, a Venturi tube, means for supplying air under pressure to said tube, means for supplying fuel to the vacuum portion of said tube, said fuel being drawn into the tube solely by the vacuum induced at the throat by the flow of air therethrough, a second Venturi tube into which said first tube discharges and which discharges into said engine and means for igniting the mixture in said second tube adjacent the throat portion thereof.

1,384,571. MACHINE FOR MOLDING SOAP AND THE LIKE SUBSTANCES. JOSIAH SMITH, Leeds, England. Filed Nov. 16, 1920. Serial No. 424,363. 4 Claims. (Cl. 25—7.)

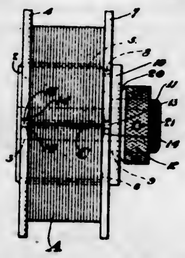
1. A soap-molding machine of the kind specified; comprising in combination, a framing, tubular molds carried by the framing, a tank situated on the framing for supplying hot liquid soap to the upper open ends of the tubular molds, slidable pistons within the tubular molds,

and means for setting up a vacuum within the tubular molds to lower the slidable pistons and draw the hot liquid soap from the supply tank into said tubular molds,



together with means for supplying compressed air to the tubular molds to raise the slidable pistons and eject the solidified bars or slabs of soap from said tubular molds.

1,384,572. REEL. WILLIAM J. SMITH, Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey, a Corporation of New Jersey. Filed Dec. 4, 1920. Serial No. 428,358. 5 Claims. (Cl. 242—116.)



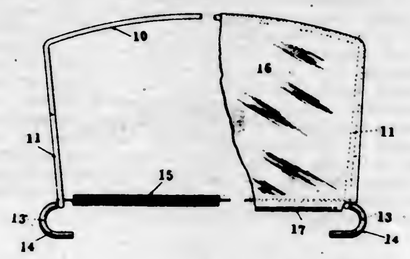
4. A reel for wire or the like comprising a hub and a pair of flanges, one of said flanges being removable and having an aperture therein to fit said flange on a reduced portion of said hub, a U-shaped collar of greater diameter than the aperture in said removable flange fitted over another reduced portion of said hub, and a nut threaded on said hub to force said collar against said removable flange, the aperture in said flange being of a size that permits the flange to pass freely over said nut when said collar is removed.

1,384,573. CLOSURE FOR BOTTLES AND OTHER CONTAINERS. THOMAS C. SPELLING, New York, N. Y. Filed Apr. 11, 1917. Serial No. 161,112. 13 Claims. (Cl. 120—57.)



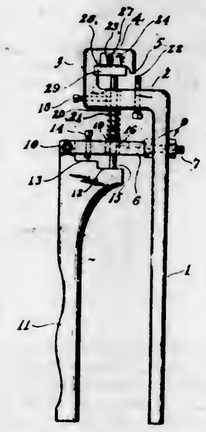
1. A closure for a bottle formed with a vent in the rim surrounding the mouth, the rim being horizontally undercut, comprising a cap formed of resilient substance, attached to, and fitted on, and creased along its outer edge inside of the rim, overlying a gasket of yieldable substance, both co-extensively covering less than the entire area within the rim, a stopper, and means for shifting the stopper into and out of said space, and binding and locking it when in place.

1,384,574. RAIN AND SUN SHIELD FOR AUTOMOBILES. EDWARD L. STANTON, HARRY T. STANTON, and STODDARD J. STANTON, St. Louis, Mo. Filed Apr. 21, 1920. Serial No. 375,437. 7 Claims. (Cl. 246—95.)



1. In a device of the class described, the combination with a supporting spring frame, of a flexible cover surrounding said frame, and a pair of clamping loops carried by said frame and adapted by reason of the resiliency of said frame to be engaged with the uprights of a vehicle to removably secure the device in position.

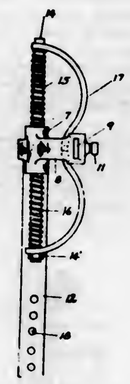
1,384,575. SAW-SET. WILLIAM M. STOVALL, Clallam Bay, Wash. Filed Mar. 5, 1920. Serial No. 363,615. 7 Claims. (Cl. 76—69.)



1. In a saw set, the combination of a handle provided with a saw-receiving end, a bar provided with an inwardly-threaded end extending through the handle, locking nuts at opposite sides of the handle and mounted upon the threaded end of the bar for holding the bar securely upon the handle, tooth-bending means on the saw-receiving end and on said bar, and an auxiliary handle movably mounted on the bar and coöperating with the tooth-bending means for actuating the same at the will of the operator.

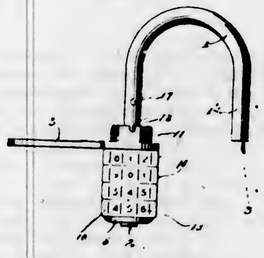
1,384,576. VEHICLE ATTACHMENT. CHARLES SUHR, Chicago, Ill. Filed Mar. 13, 1920. Serial No. 365,631. 4 Claims. (Cl. 240—57.)

1. A device of the class described, comprising a supporting bracket; a hub on said bracket; a stem projecting vertically from opposite sides of said hub and slidable therein; a member firmly mounted on the ends of said stem for attaching a lamp thereto; and means for



retaining said lamp and member in constant relation to said hub, substantially as described.

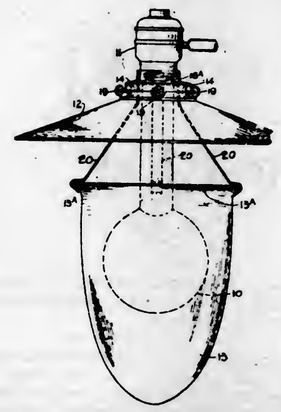
1,384,577. PERMUTATION-LOCK. SAMUEL S. SWAN, Eau Claire, Wis. Filed Mar. 6, 1920. Serial No. 363,789. 2 Claims. (Cl. 70—10.)



1. A lock of the class described including a locking member having an arm, a tumbler disk carrying member slidable on the arm, a plurality of tumbler locking disks rotatable on the carrying member, said carrying member being slidable on said arm when said disks are in unlocked position and held against sliding movement when said disks are in locking position, removable means for retaining the carrying member against sliding from the arm when the disks are in unlocked position, and means for holding the last mentioned means against removal when said disks are in locking position.

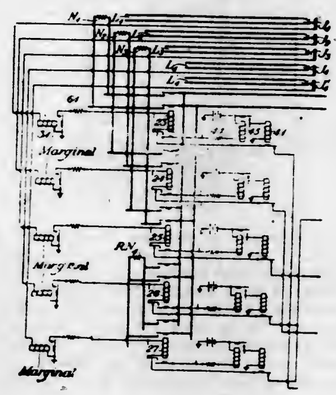
1,384,578. ELECTRIC-LIGHT FIXTURE. HERBERT O. TOMLINSON, Wheaton, Ill. Filed Mar. 27, 1920. Serial No. 369,387. 7 Claims. (Cl. 240—111.)

1. In an electric light, the combination of a lamp socket, a resilient clamping ring encircling said socket and removable downwardly therefrom, spring arms permanently united with said ring, a reflector having a central opening which is larger than said ring, said arms extending downward through said opening and being movable toward each other to permit downward removal of said reflector while said ring remains in place on the socket, a bowl detachably engaging the lower ends of said arms to spread them apart, so that the bowl is removably supported, and means for contracting the ring solidly upon said lamp socket to render the upper ends of said resilient arms rigid with the sides of the socket, to



form a spring bowl holder, and for expanding the ring to disconnect said arms from the sides of the socket.

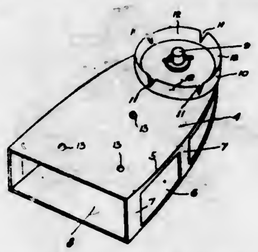
1,384,579. AUTOMATIC TRANSMISSION-CONTROLLING MEANS. JOHN F. TOOMEY, New York, and CHARLES S. DEMAREST, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Oct. 16, 1917. Serial No. 196,899. 20 Claims. (Cl. 179—170.)



1. A transmission circuit for transmitting signaling currents, terminal apparatus with which said circuit may be associated, and means operating automatically to so vary the transmission efficiency of said circuit, in accordance with the transmission requirements with respect to the signaling currents of any type of terminal apparatus with which said circuit is associated, that the total transmission equivalent of said transmission circuit and terminal apparatus will be substantially constant regardless of the type of terminal apparatus associated with the transmission circuit.

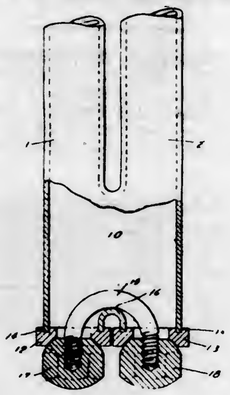
18. A transmission circuit, a plurality of terminating lines with which said circuit may be associated, and a plurality of relays for variably controlling the transmission efficiency of said circuit, said relays being selectively operated in accordance with the terminating line with which the circuit is associated.

1,384,580. SPRING-BOARD. JOHN TOSS, Campbell River, British Columbia, Canada. Filed June 10, 1920. Serial No. 387,983. 5 Claims. (Cl. 304—28.)



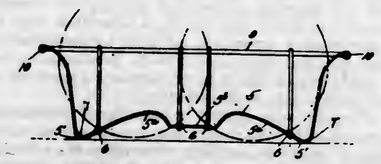
1. In a device of the class described, a shoe adapted to receive the end of a board, and a cup-shaped member pivotally mounted on said shoe.

1,384,581. RETURN-BEND. CHARLES HENDERSON TRUE, Hammond, Ind., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 14, 1920. Serial No. 373,905. 2 Claims. (Cl. 122—462.)



1. In a structure of the class described, the combination of two parallel pipes; a channel connecting them at a comparatively small distance from their ends, the walls of the channel being integral with the pipes; a U-shaped bolt with threaded ends whose parallel legs extend through the open ends of the pipes and which bears against the channel wall nearest the pipe ends; closures for the pipe ends; and means engaging the threaded ends of the bolt and the closures to force the latter against the pipe ends.

1,384,582. DISH-DRAINER. WALTER B. WILLS, Baltimore, Md. Filed Jan. 26, 1921. Serial No. 439,969. 1 Claim. (Cl. 141—11.)



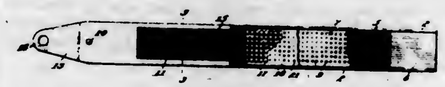
A dish-draining, wire basket having an upper rim of heavy wire, a bottom comprising transversely-extending, spaced, parallel wires, each having two arched portions, each two arched portions being connected by a straight portion; said bottom comprising, also, four longitudinally-extending, parallel, spaced wires, two thereof intersecting said straight portions near the ends thereof and the remaining two longitudinal wires intersecting said arched portion near the outer ends thereof, at points below the plane of the straight portion, the outer ends of said transversely and longitudinally extending wires being bent upwardly and secured to said rim as and for the purpose described.

1,384,583. CABLE-SUPPORT. MERRITT D. WOOD, Clark, S. D. Filed Oct. 21, 1920. Serial No. 418,563. 6 Claims. (Cl. 248—31.)



1. In a cable-supporting device, a supporting plate attachable to a battery-box or the like and including a channel provided with a series of apertures between its opposite sides, and a combined cable-clamping and support-attaching unit including a headed fastener which is interchangeably seatable in said apertures by movement of its head inward through the respective apertures, said fastener being operable to turn its head into locking engagement with said channel and being provided with means to engage said opposite sides and prevent it from turning beyond the locking position, said fastener including means to coact with said head for rigidly securing the said unit to said plate.

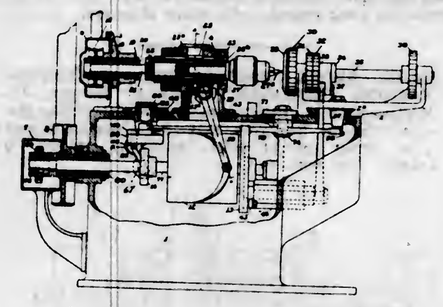
1,384,584. CHECK-PROTECTOR. CHARLES A. APPEL, Jr., Washington, D. C. Filed May 17, 1921. Serial No. 470,435. 4 Claims. (Cl. 101—19.)



1. A check protector comprising a support for the check to be drawn, and a multiplicity of puncturing devices adapted to be individually actuated and over which a stylus may travel as in the act of writing.

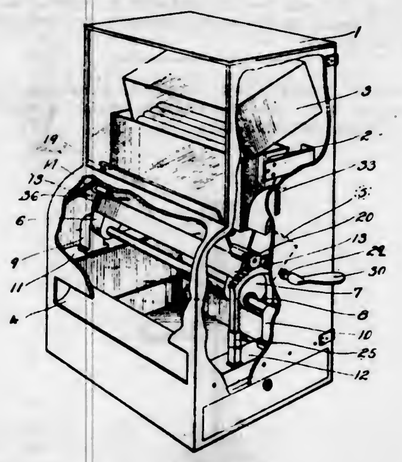
1,384,585. AUTOMATIC DRILLING-MACHINE. EDMUND R. BARANY, New York, N. Y., assignor to Twinomatic Machine and Tool Co. Inc., Brooklyn, N. Y., a Corporation of New York. Filed Oct. 8, 1918. Serial No. 257,333. 13 Claims. (Cl. 77—5.)

1. In a drilling machine, the combination with a drill spindle, and means to advance and retract the same axially, of a pair of slides at opposite sides of the axial line of the drill, and movable toward and from each other,



a rotary blank clamping member carried by each of the slides, and means to reciprocate said slides, to center and clamp a blank in line with the drill.

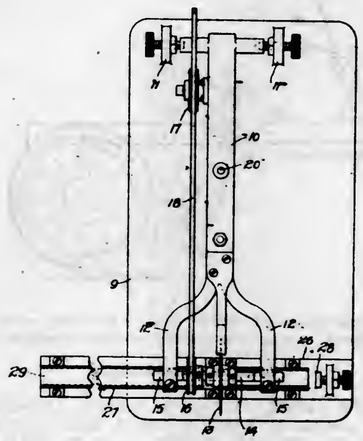
1,384,586. VENDING-MACHINE. FRANK C. BATES, Kansas City, Mo., assignor to John B. Stader, Kansas City, Mo. Filed Aug. 4, 1920. Serial No. 401,188. 7 Claims. (Cl. 211—8.)



1. In a vending machine, an article-containing hopper, a swinging valve closing and opening the discharge end of the hopper, a swinging gate slidably mounted on the valve, and means for rotating the gate.

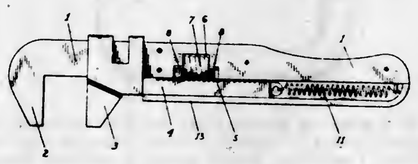
1,384,587. MANUFACTURE OF COMPOSITION CORES. HARRY TRISTRAM BELLAMY, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 29, 1919. Serial No. 327,103. 2 Claims. (Cl. 25—3.)

2. The process of manufacturing composition cores, which consists in forming the compound into tubular form of approximately the dimensions desired and while in a semi-plastic state turning to final diameter, rolling



a thread upon its peripheral surface, cutting to final length and subsequently firing.

1,384,588. WRENCH. JOHN V. BELLUOMINI, Jackson, Calif. Filed Feb. 12, 1921. Serial No. 444,436. 1 Claim. (Cl. 81—157.)

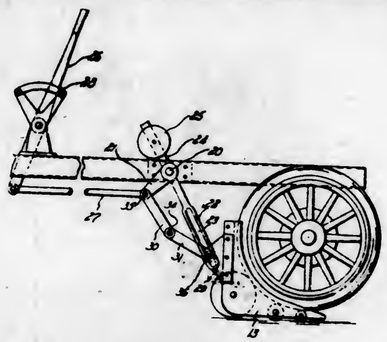


A wrench comprising a fixed jaw, a shank thereon, side plates fixed on the shank and projecting therebeyond in the plane of the jaw to form a longitudinal inclosure with said shank, a movable jaw slidable on the shank between the fixed jaw and the side plates, a spring-pulled shank on the movable jaw slidable in the said inclosure and provided with teeth on the face thereof adjacent the fixed-jaw shank, and a spring pressed worm mounted in the latter shank for movement to and from the movable-jaw shank, the fixed-jaw shank being recessed to receive said worm and the side plates being orificed to allow the worm to project therethrough whereby the latter may be manipulated by the fingers on opposite sides thereof but the diameter of said worm being less than the overall width of the side plates and shank, whereby the worm will be protected.

1,384,589. EMERGENCY-BRAKE. JAMES CHARLES BLANEY, Cleveland, Ohio. Filed Aug. 4, 1920. Serial No. 401,186. 10 Claims. (Cl. 188—4.)

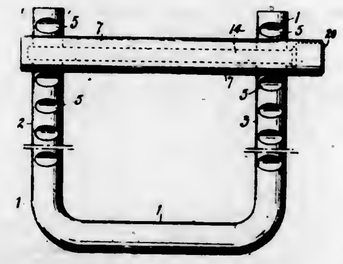
1. In combination with a vehicle, having a frame and wheels therefor, a brake shoe having side members, a front end member and a bottom member, said end member extending above the horizontal line through the axle of the wheel, said shoe being provided with a groove, into

which the wheels of the vehicle may run when the brake shoe is placed on the ground, and means associated with



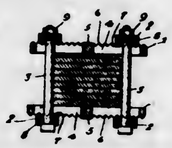
said brake shoe and vehicle whereby the brake shoe may be lowered to and raised from operative position as a brake.

1,384,590. LOCK. VICTOR R. BOTTONE, Philadelphia, Pa., assignor of one-half to John S. McAleer, Philadelphia, Pa. Filed Mar. 30, 1921. Serial No. 456,844. 4 Claims. (Cl. 70—108.)



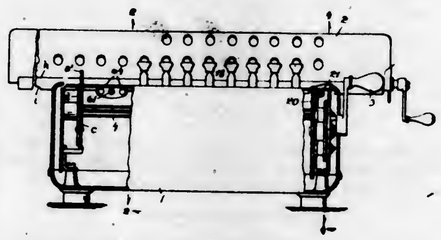
2. A device of the character described comprising, a member having a transverse recess formed in the side thereof, a receiving member having an aperture formed therein adapted to receive the first mentioned member, a locking rod rotatably mounted in the said receiving member, said locking-rod having a transverse recess formed in the side thereof adapted to aline with the said aperture formed in the said receiving member and means for rotating the locking-rod so that it will engage the first mentioned member by occupying the transverse recess formed in the first mentioned member.

1,384,591. CLAMP FOR BROKEN SPRINGS. SAMUEL HOWARD BRADY, Reno, Nev. Filed Nov. 1, 1919. Serial No. 334,915. 2 Claims. (Cl. 267—51.)



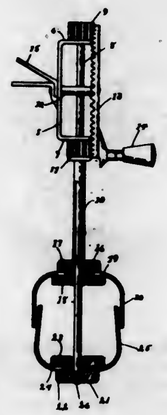
2. A clamping device of the class described comprising two pairs of clamping plates, each having a pair of longitudinally extending slots therein having their inner ends separated, bolts connecting each pair of plates together and passing through the slots in said plates, elongated washer plates for said bolts, said plates and washer plates being corrugated to interlock with each other, a top plate upon which the upper slotted plates rest, said top plate having projections at its ends and one projection being formed in the shape of an eye.

1,384,592. SHOCK-ABSORBER FOR CALCULATING-MACHINE CARRIAGES. EDWIN F. BAITTEN, Jr., Maplewood, N. J., assignor to Monroe Calculating Machine Company, New York, N. Y., a Corporation of New York. Filed Apr. 14, 1920. Serial No. 373,835. 9 Claims. (Cl. 235—79.)



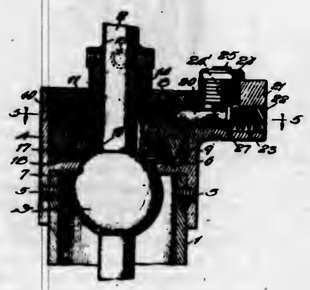
1. In a calculating machine having a series of gears, an endwise-shiftable pivoted carriage having register wheels, a series of gears connected therewith and engaging the first-named gears, and means engaging the carriage to raise the same pivotally and shift it endwise, means for cushioning the fall of the carriage active throughout the fall thereof.

1,384,593. EGG-BEATER. JAMES L. BRUMFORD, Canajoharie, N. Y. Filed Dec. 27, 1920. Serial No. 433,274. 3 Claims. (Cl. 259—132.)



1. An egg beater of the character described comprising a support, a power shaft rotatably mounted in said support, a second tubular power shaft rotatably mounted on the first named shaft, complementary agitating elements inverted with respect to each other carried by the ends of the respective shafts, each of said elements comprising a core, a sectional shell embracing said core, curved agitating fingers integrally formed in pairs mounted in the core and projecting through the shell, the free ends of the agitator fingers of one element being inwardly disposed of the path of movement of the free ends of the agitator fingers of the other element and means for simultaneously rotating said shafts in opposite directions.

1,384,594. AUTOMOBILE-LOCK. RUDOLPH BRUNER, Chicago, Ill., assignor to John P. Dales and M. Jay Meyers, Chicago, Ill. Filed Apr. 22, 1920. Serial No. 375,750. 9 Claims. (Cl. 70—128.)



1. In a lock of the kind described for controlling levers and in combination, a casing having a cylindrical bore and arranged about the lever, means for securing the same in place, a coöperating cylindrical member arranged to seat in said casing and provided with a continuous groove about the periphery thereof, and means for locking said member in the casing including a lock bolt carried by said casing and constructed to engage said member in said groove.

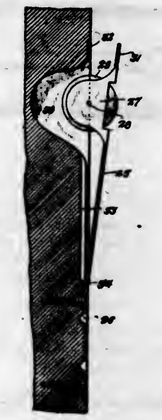
1,384,595. EAR DEVICE. CHARLES T. BUCK, Waukegan, Ill. Filed May 4, 1920. Serial No. 378,896. 3 Claims. (Cl. 181—25.)



2. In an ear device, a sound receiver having one end closed and rounded to form a substantially spherical sound chamber, a tube having one end opening into said receiver and the other end adapted to be inserted into the ear, a sound amplifier on said tube within said receiver and opening out toward said round closed end, and means for adjusting the position of said amplifier relative to said round closed end to regulate sound waves passing through the tube.

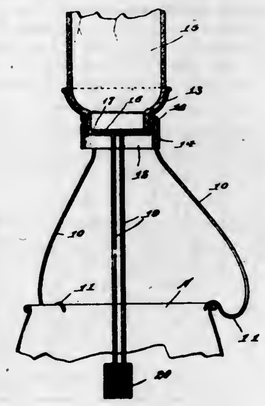
1,384,596. SPRING-ROLLER ATTACHMENT FOR WINDOWS AND DOORS. AARON A. BURGNER, Jacksonville, Fla., assignor of one-half to Harry R. Ford, Jacksonville, Fla. Filed Aug. 10, 1917. Serial No. 185,592. 1 Claim. (Cl. 292—77.)

In a device of the class described, a window sash having a recessed edge portion, a bracket and a resilient device connected therewith for mounting the bracket, said bracket conforming to the shape of the recess and including an offset portion opposite the resilient device and engaging the edge of the sash for limiting the movement of the bracket and closing the adjacent portion of the recess,



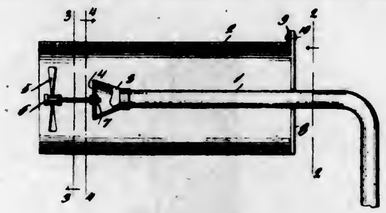
and a roller mounted in the bracket for engaging a window frame, the sash having a restricted channel for the reception of the resilient element and the channel having outlet portions for the discharge of dust laterally through the sash, and on the inner and outer sides thereof.

1,384,597. ATTACHMENT FOR COOKING VESSELS. ELMER E. BUTTS, Arkansas City, Kans. Filed Mar. 9, 1920. Serial No. 364,491. 4 Claims. (Cl. 53—1.)



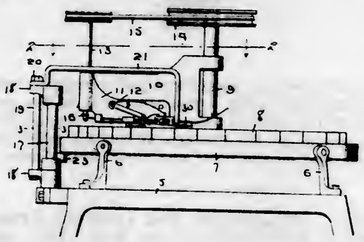
1. A device of the character described comprising a tripod structure including legs detachably engageable upon the edge of a kettle and a ring member carried by the upper ends of the legs, a water reservoir formed as a jar arranged in inverted position with its outlet end fitting within said ring member, a closure for the end of said reservoir, and a pair of tubes leading through said closure and adapted to extend into water within the kettle, said tubes being of unequal length.

1,384,598. GAS-BURNER. JOSEPH P. BUTTS, Baxter Springs, Kans. Filed Oct. 14, 1919. Serial No. 330,600. 3 Claims. (Cl. 158—118.)



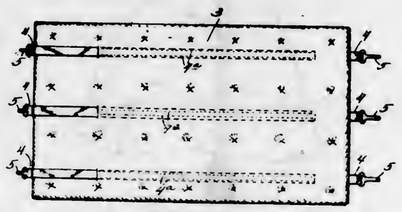
1. In a gas burner comprising a burner tube provided with a tip, a mixing chamber surrounding the burner tube, a stem supported by the burner tip and a fan mounted on said stem and disposed forwardly of the tip and within the front portion of the mixing chamber.

1,384,599. CANNING-MACHINE. PERRY CHAMBERLAIN, Troy, Pa. Filed Apr. 2, 1919. Serial No. 286,932. 5 Claims. (Cl. 113—91.)



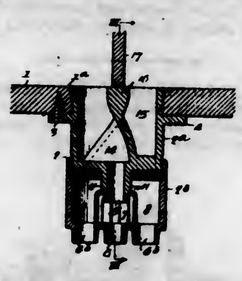
1. In a canning machine, a can carrier, and a soldering mechanism, said mechanism including a heated soldering iron, means for intermittently feeding a soldering strip against the iron, an actuating member carried by the feeding means, a pivoted arm operable by contact with the cans traveling with the carrier, and an adjustable abutment carried by the arm and engageable with the actuating member for variably actuating the feeding means.

1,384,600. MATTRESS-HOLDER FOR INVALID-BEDS. LUCY SPOHRER COIL, Nevada, Mo. Filed Jan. 3, 1921. Serial No. 434,434. 1 Claim. (Cl. 5—22.)



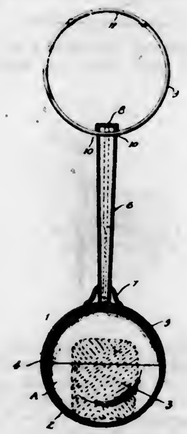
The combination with a holder and a mattress for support thereon, of a plurality of straps extending longitudinally of and underlying the mattress; the foot ends of the straps being secured to the mattress some distance from the head end thereof to permit a sheet, when spread over the mattress, to be fully tucked down over the head end thereof and back between such end and the said straps, and means attached to the opposite ends of the straps for detachable engagement with the head end of the holder.

1,384,601. NOZZLE FOR CAKE-COATING MACHINES. WILLIAM COSTELLO, Jr., Philadelphia, Pa. Filed Sept. 27, 1919. Serial No. 326,779. 4 Claims. (Cl. 107—1.)



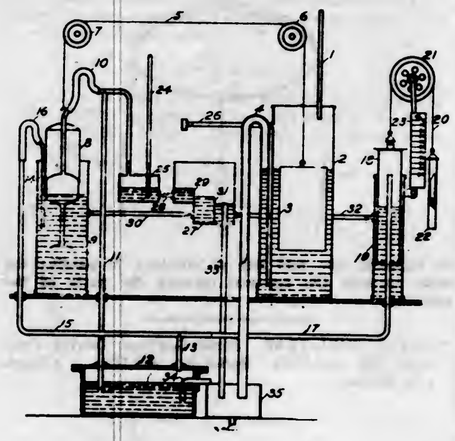
1. In a nozzle, the combination with a relatively fixed portion having a plurality of channels or compartments of a distributing head detachably secured to said fixed portion and having a concentrically disposed substantially bell shaped inner partitioning wall forming an independent chamber in said head and having an opening centrally disposed in the top thereof, a duct leading from one of the compartments of the fixed portion to said central opening, another of the compartments of the fixed portion communicating with the other chamber of the distributing head, and discharge apertures in the distributing head leading from each of the chambers therein.

1,384,602. CROCHET COTTON OR WOOL HOLDING DEVICE. WINDOM HARRISON CROWELL, Detroit, Mich. Filed Apr. 20, 1920. Serial No. 377,669. 1 Claim. (Cl. 223—14.)



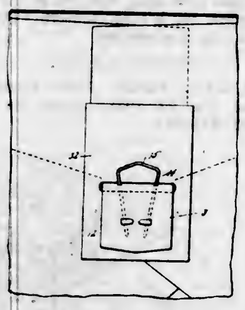
A device of the character stated, comprising a pair of hollow hemispherical sections adapted to be fitted together to form a spherical thread receiving inclosure, said inclosure having a thread outlet therein, a hollow needle receiving handle including an open end, a removable cap closing the other end of the handle, said handle being located with its open end abutting against the exterior surface of the thread receiving inclosure, and a collar around the end of the handle maintaining the open end of the handle in engagement with the exterior surface of the thread receiving inclosure.

1,384,603. GAS-ANALYSIS APPARATUS. WILLIAM L. DE BAUFRE, Highland Park, Mich. Filed Oct. 10, 1919. Serial No. 329,691. 5 Claims. (Cl. 23—3.)



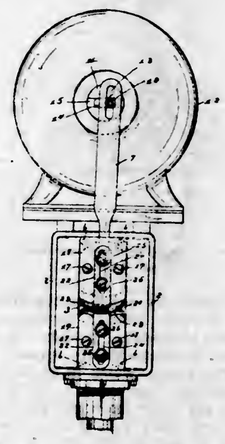
1. In a gas analysis apparatus, a liquid seal, an extractor bell fitted to rise and fall in said liquid seal and connected with the source of the gas mixture to be analyzed, a second liquid seal, a measuring bell fitted to rise and fall in the second liquid seal and connected to the said extractor bell and to a venting device constituted by an open tube attached to the said extractor bell also dipping into a liquid seal, means for subjecting the gas mixture to the action of an absorbent reagent during its passage from the extractor bell to the measuring bell, and means of bringing the said liquid seals to their normal levels during each cycle of operations.

1,384,604. LOCK FOR ENVELOPS AND OTHER CONTAINERS. GEORGE DOUTNEY, Brooklyn, N. Y. Filed July 6, 1920. Serial No. 394,182. 1 Claim. (Cl. 229—78.)



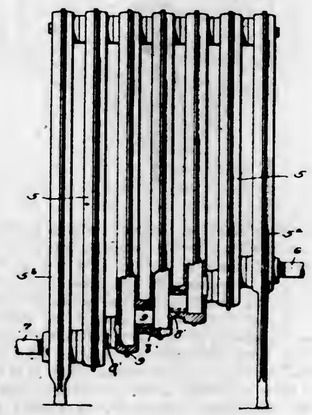
As a new article of manufacture, an envelop of the conventional shape, the body having a horizontal slot and provided on its inner face with a pocket open at the bottom, the closing flap being provided on each side of its center with substantially V-shaped notches, whereby a comparatively long integral and tapering tongue is formed, the tongue being provided with a hook projecting from its end, said hook engaging the pocket over the edges of the bottom thereof when the envelop is sealed by inserting the tongue through the slit and the pocket.

1,384,605. IRONING NECKBANDS. GEORGE B. EHRMANN, Troy, N. Y. Filed May 8, 1919. Serial No. 295,542. 5 Claims. (Cl. 68—9.)



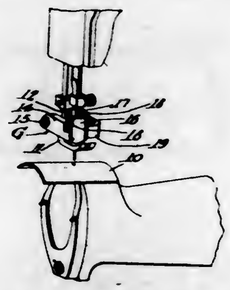
1. In a machine of the class described and in combination, guiding mechanism forming a groove and provided with an opening in the groove-wall; an iron adjacent to said opening; and means for rapidly reciprocating said iron.

1,384,606. RADIATOR. WILLIAM J. FARRELL, New York, N. Y. Filed Nov. 15, 1919. Serial No. 338,276. 1 Claim. (Cl. 257—151.)



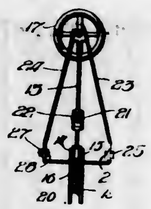
A radiator comprising a plurality of vertically disposed sections, with the upper ends of said sections substantially parallel, each of the sections being provided with an opening formed at the lower end and in each of its sides, the opening in one side of each section being at a higher level than the opening in the other side thereof, the higher opening of one section being positioned to register with the lower opening of an adjacent section, thereby providing in the bottom of the radiator a stepped drain way, allowing the water to reach its lowest level and be carried off, substantially as and for the purpose set forth.

1,384,607. SAFETY-GUARD FOR SEWING-MACHINES. DANIEL WEBSTER FEITEL, New Orleans, La. Filed Sept. 27, 1919. Serial No. 326,893. 2 Claims. (Cl. 112—261.)



1. A safety guard for a sewing machine presser foot, including an integral member having a substantially cylindrical needle surrounding cylinder, the upper edge of which is slotted at diametrically opposite sides for the threading of the needle, which is adapted to project at all times to completely surround the needle to prevent the introduction of the finger below the needle and above the presser foot, there being formed from one side adjacent the lower end of one of the slots a substantially U-shaped projection for permitting the passage of the needle clamp therethrough, the lower edge of the cylindrical portion at right angles to the U-shaped member being split to render the edge flexible, and two clamping lugs, one upon each side of the split portion for surrounding the presser foot and clamping the guard thereon.

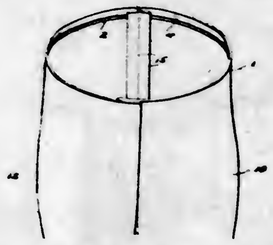
1,384,608. FLYING-MACHINE. LEVI S. GARDNER, Detroit, Mich. Filed Feb. 2, 1918. Serial No. 215,024. 4 Claims. (Cl. 244—29.)



2. In a flying machine, vertical rudders and horizontal rudders, a controlling device comprising a lever arranged to be rotatable about a vertical axis and also about a horizontal axis, a member on the upper end of the lever rotatable about a longitudinal axis, cables extending from opposite sides of each of the rudders to said member, and guides on said lever for said cables for causing said rudders to be turned into screw formation when said member is turned, for causing the vertical rudders to be shifted when the lever is turned about its vertical axis, and for causing the horizontal rudders to be shifted when the lever is turned about its horizontal axis.

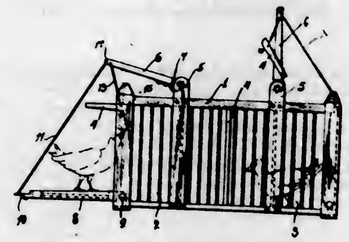
1,384,609. GARMENT-SEAM. BARNETT H. GOLDSTEIN, New York, N. Y., assignor of one-sixth to Max Pugatsky, one-sixth to Robert D. Von Rentsch, and one-sixth to Jacob Goldstein, New York, N. Y. Original application filed Feb. 6, 1920, Serial No. 356,581. Divided and this application filed Apr. 9, 1920. Serial No. 372,492. 3 Claims. (Cl. 2—142.)

1. In a garment, lining members secured along their upper edges to the upper edges of the main body fabric, and a line of stitching passing only through the main body fabric of the garment and underlying the said lining members so as not to interfere with the same in making



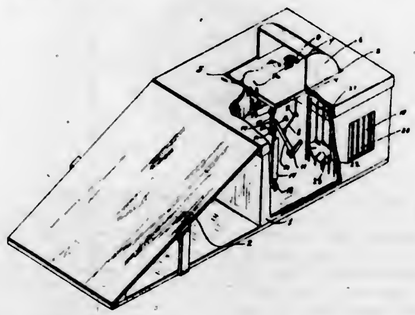
or adjusting the said line of stitching in passing the same through the material forming the parts of the garment.

1,384,610. BIRD-TRAP. JOSEF GORNIAK, Denver, Colo. Filed Jan. 22, 1921. Serial No. 439,180. 2 Claims. (Cl. 43—61.)



1. A device of the class described comprising a cage, a platform pivotally attached at the entrance to said cage, uprights on the sides of said cage, a rod supported between said uprights, a spring rigid with said rod and extending outward therefrom, a rigid member attached to the free end of said spring, a second member having a hole therethrough near one end thereof, a cord passing through said hole and having means at the end thereof for attaching bait thereto, said cord being attached at the other end to said first member, and a cord connecting the end of said platform with said first-member.

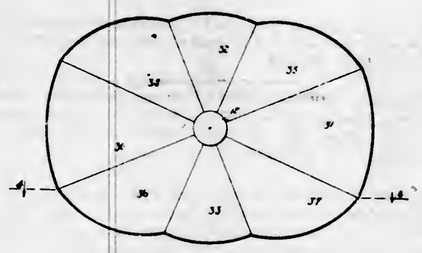
1,384,611. ANIMAL-TRAP. JOSEF GORNIAK, Denver, Colo. Filed Jan. 22, 1921. Serial No. 439,182. 2 Claims. (Cl. 43—70.)



1. A device of the class described comprising a box, a recess in the upper surface thereof, a platform pivotally

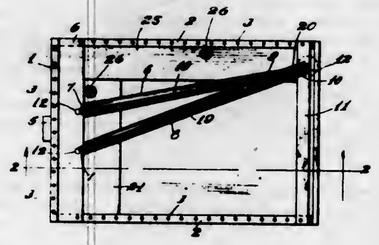
mounted in said recess, a link pivotally attached to the underside of said platform, a recess in said link, a resilient member urging said link downward, a member pivotally mounted on the floor of said box, a hook on the end of said member normally engaging said second-named recess, and a cord attached to said last-named member and extending to said platform.

1,384,612. APPARATUS FOR RECORDING MOTION AND SOUND. ROBERT D. GRAY, New York, N. Y. Filed Aug. 4, 1920. Serial No. 401,178. 10 Claims. (Cl. 181—30.)



4. A sound reflector having its interior surface formed of elliptic and parabolic segments having a common axis, the elliptic segments having a common acoustic focus located in the said common axis.

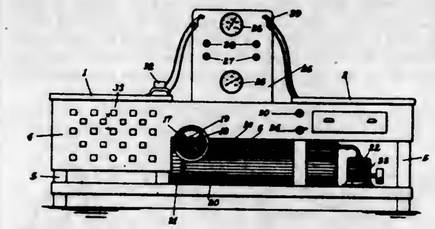
1,384,613. BANK-BURGLAR PROTECTIVE DEVICE. CHARLES A. GUHR, Chicago, Ill. Filed Dec. 19, 1919. Serial No. 346,114. 1 Claim. (Cl. 268—2.)



A bank cage protective device comprising a metal screen disposed at the front of the cage and arranged to slide vertically into position behind the bars of the cage front, an electromagnet disposed beneath the floor of the cage for normally holding the screen in position, cables secured to the screen and arranged to extend upwardly, runways for said cables extending rearwardly and converging to form a stop member at their junction, a counterweight disposed beneath the floor of the cage, a cable connected at one end with the counterweight and at its other end with said last named cable, and a tube for concealing the cable connected to the counterweight.

1,384,614. RADIATOR-TESTING APPARATUS. GEORGE S. HALL, Chico, Calif. Original application filed May 22, 1919, Serial No. 298,980. Divided and this application filed Dec. 13, 1919. Serial No. 344,505. 1 Claim. (Cl. 73—51.)

An apparatus for testing leaky radiators including in combination with a work bench provided with a tank containing air under pressure, an open-topped water tank positioned on the bench, a platform in the tank for holding a radiator thereon, the radiator being connected with the air tank, a well in the bottom of the tank, a plunger

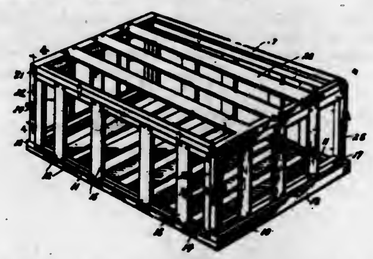


slidable in the well, means for holding the plunger against rotation, a sleeve on the plunger sustaining the platform and a turnably mounted cable operatively connected with the plunger and adapted to be wound to raise and lower the same in the well.

1,384,615. ART OF MANUFACTURING PERYLEN. FAITZ HANSGIRG, Grätz, Styria, Austria. Filed July 30, 1919. Serial No. 314,388. 6 Claims. (Cl. 23—24.)

1. A method of manufacturing perylen, consisting in adding a β-substituted derivative of a naphthalene nucleus to a halogenizing agent, and heating the product of the reaction.

1,384,616. COLLAPSIBLE CRATE. LUDWIG E. LARSON, Willow Grove, Pa. Filed April 18, 1919. Serial No. 291,102. 1 Claim. (Cl. 217—47.)

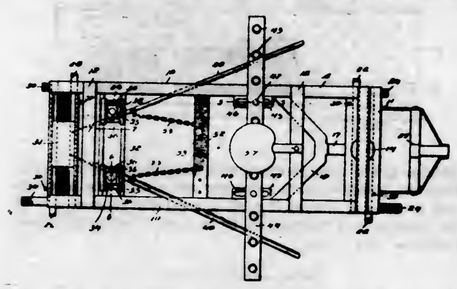


A collapsible crate all of the sections of which are permanently connected together in a unit and are susceptible of being detachably fixed in open and closed state, the said crate including a bottom section with raised end portions, inwardly-foldable side sections hinged to the bottom section and having dowel pins projecting upwardly from their upper edges, inwardly foldable end sections hinged to said raised end portions and having dowel pins projecting upwardly from their upper edges, a top section with sockets in its underside to receive said dowel pins, links pivoted at one end to the side edges of the top section near the corners thereof and having longitudinal slots adjacent to their opposite ends, threaded pins extending from points midway the length of the ends of the end sections and also extending through said slots, and nuts on the threaded portions of said pins and at the outer side of said links.

1,384,617. DITCH-FILLING MACHINE. OSCAR LEE, Fairfield, Mont. Filed Mar. 3, 1920. Serial No. 362,898. 3 Claims. (Cl. 37—7.)
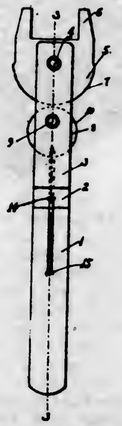
1. A machine of the character described comprising a frame, a front hanger carried at the forward end of the frame, a front turning bolster pivotally connected with the hanger, a rear stationary bolster on the rear end of the frame, axle beams mounted in the bolsters and later-

ally adjustable, depending uprights on said axle beams, inwardly extending axle spindles on said uprights, traction wheels journaled upon the spindles, scraper blades disposed beneath the frame on opposite sides of its center line of draft, front and rear posts on said blades, a front cross beam upon the frame and adjustably connected therewith and having a series of tubular sockets for adjustably receiving the front posts of said scraper blades, bearings mounted in the rear portion of the frame and supported



for lateral adjustment, and adjustably receiving the rear posts of said scraper blades, means carried by the posts for adjustably securing the same in the sockets and bearings respectively, draw chains adjustably carried by the frame and connected with the scraper blades, flanged bars arranged on opposite sides of the bearings and fixed in spaced parallel relation to each other between the sides of the frame transversely thereof, and slidable boxings mounted between the flanged bars and supporting said bearings.

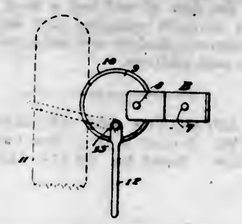
1,384,618. WRENCH. CYRIL HILL LEWIS, Shangani, Southern Rhodesia, British South Africa. Filed Oct. 11, 1920. Serial No. 416,255. 2 Claims. (Cl. 81—129.)



1. A wrench including a handle, a jaw having a body portion which is pivotally secured to the handle, an eccentrically mounted wheel on the handle to the rear of the body of the jaw, and a rod pivotally connected thereto whereby to bring the periphery of the wheel into frictional engagement with the periphery of the jaw.

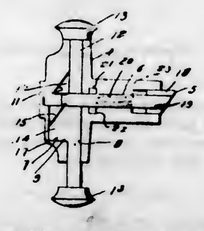
1,384,619. BROOM OR MOP HOLDER. CHRISTOPHER MCRAE, San Francisco, Calif. Filed June 19, 1920. Serial No. 390,141. 2 Claims. (Cl. 24—249.)

1. A device of the character described comprising a bracket member, a roller having a concave roughened surface and being pivoted to said bracket at a point adjacent the edge thereof, said roller having edges formed by the concave surface to prevent lateral displacemnt of an arti-



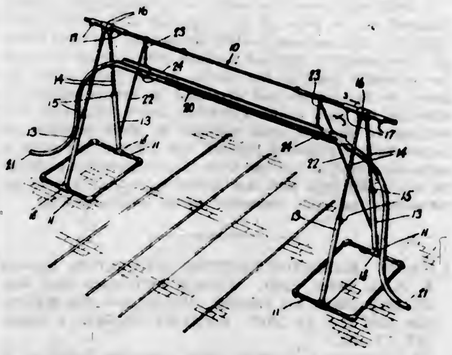
cle resting thereon, and a clamping element attached to said roller and adapted to embrace the article inserted in the clamping element.

1,384,620. DOOR-LATCH. HENRY MCVITTIE, Bend, Oreg., assignor of one-half to Joseph R. Tripoll, Bend, Oreg. Filed Dec. 6, 1919. Serial No. 342,985. 1 Claim. (Cl. 292—170.)



A door latch comprising a T-shaped casing having communicating grooves in its leg and arm portions, straight and inclined shoulders located in the groove of the arm portion and arranged on opposite sides of the groove in the leg portion, an actuating rod slidable in the groove of the arm portion, a spring pressed bolt in the groove of the leg portion, a strap secured to the bolt and surrounding the rod and a cam on said rod and having straight and inclined faces and the latter face adapted to be engaged by the strap and the inclined shoulder and the straight face adapted to normally engage the straight shoulder.

1,384,621. HOSE-SUPPORTING BRIDGE. WALTER CECIL MAJOR, Niagara-on-the-Lake, Ontario, Canada. Filed July 23, 1920. Serial No. 398,409. 3 Claims. (Cl. 104—276.)



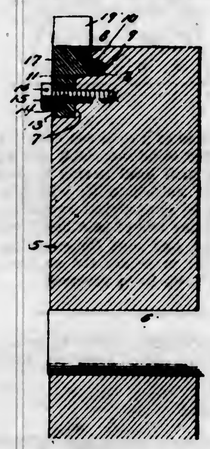
1. A device of the character described comprising a cross beam, hose supporting means carried by the cross beam, end supporting frames, each frame including a base, and divergently disposed legs, the latter being composed of telescopic sections, and means carried by the legs for supporting the base.

1,384,622. KEYHOLE-FINDER. CYRIL H. MAY, Ironwood, Mich. Filed May 13, 1920. Serial No. 381,120. 2 Claims. (Cl. 70—16.)



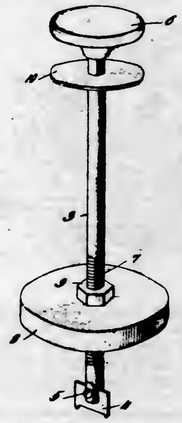
1. A combination of an escutcheon plate provided with an opening, a finder plate provided with an opening, an inclined depressed portion surrounding said opening and lugs extending inwardly from the opening adapted to be received in the opening of the escutcheon plate whereby the two are fastened together.

1,384,623. DETACHABLE GEAR FOR AUTOMOBILES. JAQUELIN M. MEREDITH, Jr., Norfolk, Va. Filed Dec. 1, 1919. Serial No. 341,598. 1 Claim. (Cl. 74—28.)



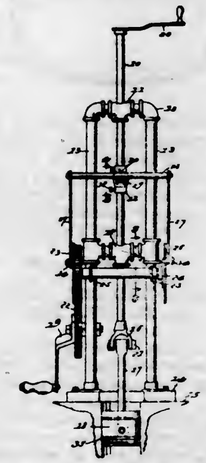
In a device of the class specified, the combination of a rotating member having a stepped groove in the outer portion of one side thereof continuing around the same and opening through the periphery of the member, the inner portion of the groove being reduced in depth to provide a straight shoulder transversely of the member where the said reduced portion of the groove intersects the outer deeper part of the groove, the deeper part of the groove being formed with an inner counter recess which continues the length of the shoulder to provide an increased bearing surface, the outer wall of the recess being beveled outwardly, and separable sections fitted flushly in the grooved portion of the member and having outer parts extending beyond the periphery of the member and portions of equal thickness engaging and snugly fitting the deeper part of the groove, the inner portions of the sections being reduced in thickness to fit in the inner reduced part of the groove, the sections having an inwardly projecting flange of the same contour as and snugly fitting in the counter recess and also bearing upon the said shoulder, and fastening means inserted through the inner reduced portion of each section and groove at a distance inwardly from the flange of the section.

1,384,624. VALVE-GRINDER. JOE MILLER, Buffalo, N. Y. Filed Dec. 30, 1920. Serial No. 434,007. 3 Claims. (Cl. 51—29.)



1. A valve grinder including a rod equipped with a valve engaging member on one end and a handle on the opposite end, primary rod oscillating means mounted upon the rod adjacent said valve engaging member, and secondary rod oscillating means mounted upon the rod adjacent the handle.

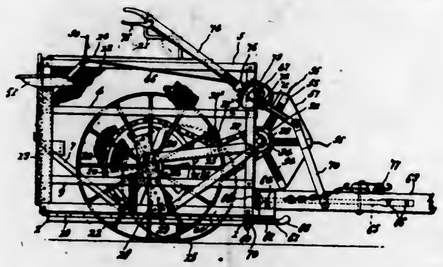
1,384,625. APPARATUS FOR DRESSING ENGINE-CYLINDERS. WARREN K. MOORE, New Castle, Pa. Filed Mar. 28, 1921. Serial No. 456,142. 5 Claims. (Cl. 74—14.)



3. An apparatus for the purpose described having in combination with a supporting frame and means for attaching the same to an engine cylinder, an operating

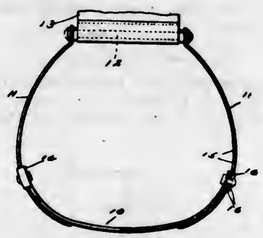
rod reciprocably and rotatably mounted in bearings in said frame and provided with means for engaging a piston rod, and means for imparting reciprocatory and rotary movement to said rod, the means for reciprocating the operating rod including crank disks, a cross head connected by pitmen with the crank disks, and a bearing block for the cross head fitted upon the operating rod.

1,384,626. PEA-PICKER. THEODORE S. MOUCHET, Bowersville, Ga., assignor to Perfect Pea Picker Company, Hartwell, Ga., a Corporation of Georgia. Filed May 13, 1920. Serial No. 381,117. 10 Claims. (Cl. 56—130.)



1. In a pea picking machine, a vehicle having a container space for the peas, picking means carried by said vehicle, and a rod pivoted on said vehicle beneath the picking means and having forwardly extending divergent arms bent from the ends thereof for gathering in the vines.

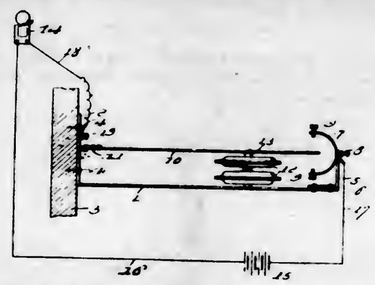
1,384,627. STIRRUP. WALTER R. OLMSTEAD, Cimarron, N. Mex. Filed Aug. 24, 1920. Serial No. 405,664. 2 Claims. (Cl. 54—47.)



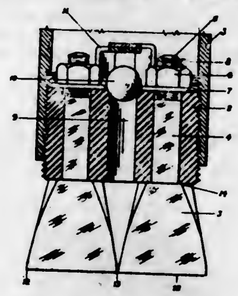
1. A stirrup including a foot piece and side members, a bar connecting said members at the top, said side members being adjustable with respect to the foot piece, said side members being designed to conform to the shape of the foot piece so that the free terminals thereof underlie the foot piece for the purpose specified, and means for holding said parts fixed relatively in a given position.

1,384,628. INCUBATOR-ALARM. ARTHUR OLSON, Oslo, Minn. Filed Nov. 27, 1918. Serial No. 264,397. 1 Claim. (Cl. 200—140.)

A heat operated circuit closer comprising a bracket composed of a horizontal arm and an upright arm of which the latter is adapted for attachment to the side wall of an incubator, a thermostat disposed on the horizontal arm of the bracket, a swinging arm composed of a metal strip one end of which extends back on itself to provide an eye which engages a loop carried by the upright portion of the bracket, an L-shaped bracket one leg of which is secured to the outer extremity of the horizontal arm but insulated therefrom, and an arcuate member disposed to the free extremity of the swinging arm with its ends above and below the plane of the latter and provided with terminal adjusting screws for contact with the extremity of the swinging arm, for the purpose specified.

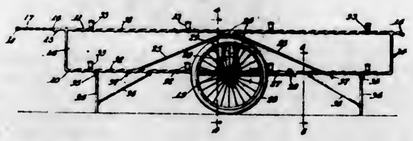


1,384,629. WELL-DRILLING APPARATUS. WALTER OVERKAMP, Evergreen, Colo. Filed Mar. 29, 1918. Serial No. 225,502. 4 Claims. (Cl. 255—64.)



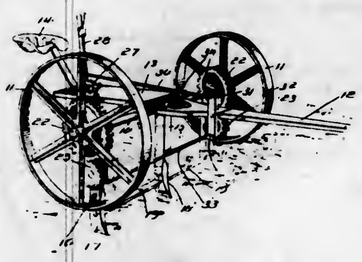
1. The combination of a drill rod having a tubular end, a drill head adapted to be removably secured within said tubular end, said drill head having a plurality of symmetrical non-round holes parallel with the axis of said head, a plurality of symmetrical reversible cutters each having a shank fitting one of said holes, each shank having a threaded end, and nuts for engaging the threaded ends of the shanks to secure the cutters removably in place and permit them to be reversed.

1,384,630. STRETCHER. JOHN T. OWENS, New York, N. Y. Filed Dec. 6, 1918. Serial No. 265,551. 1 Claim. (Cl. 296—20.)



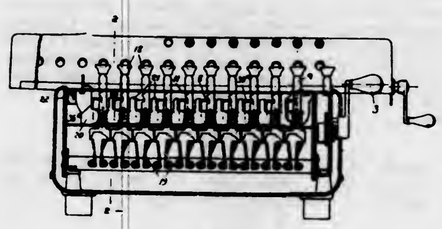
A stretcher comprising upper and lower frames, corner posts connecting the frames, truss braces between the sides of the respective frames, an angular member secured to the inner truss braces and dividing the lower frame into two compartments and the upper frame into two berths, fabric facings removably and adjustably secured to the frames, wheels centrally journaled on the lower frame, and foldable supports on the lower frame adjacent to the ends thereof.

1,384,631. WEEDER. CARL GUSTAV PARSCHAUER, Beehive, Mont. Filed Dec. 30, 1919. Serial No. 348,318. 4 Claims. (Cl. 97—25.)



1. In a rotary rod weeder of the class described comprising a main axle, ground wheels journaled on the ends of said axle, draft means connected with the axle, intermediate and outer hangers depending from the axle and having ground cutting means at their lower ends, a sectional weeding bar journaled in the lower portion of said hangers, and mechanism housed within each outer hanger and operated from the ground wheels for transmitting power to each section of the weeding bar independent of the adjacent section.

1,384,632. KEY-LOCK FOR CALCULATING-MACHINES. EDGAR E. PHINNEY, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of New York. Filed Feb. 25, 1920. Serial No. 361,178. 6 Claims. (Cl. 235—130.)



1. In a key-set calculating machine, setting-up means including a series of keys, numeral wheels, drive mechanism for said wheels movable in either of two directions, and means operable by said drive mechanism in either direction of movement thereof for locking said keys in position.

2. In a key-set calculating machine, setting-up means including a plurality of series of keys, rock bars engaging the keys of each series, numeral wheels, drive mechanism for said wheels including a shaft rotatable in either of two directions, and means operated by said shaft in either direction of movement thereof for locking said keys in position, including a lock member common to all of said rock bars, a member fast on said shaft, and a lever intermediate of said members.

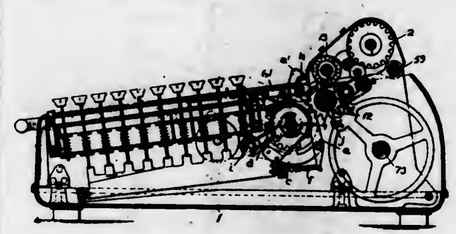
5. In a key-set calculating machine, setting-up means including a plurality of series of keys having stems provided with upper and lower notches, a rock bar for each series engaging normally the lower notches and adapted to engage the upper notches to retain the keys in position, numeral wheels, drive mechanism for said wheels including a shaft rotatable in either of two directions, and means operable by said shaft in either direction of movement thereof to engage said rock bars and lock said keys in position.

1,384,633. REVERSE-OPERATION CHECK FOR REGISTERS. EDGAR E. PHINNEY, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of New York. Filed Feb. 28, 1920. Serial No. 362,019. 6 Claims. (Cl. 235—129.)



1. Means for preventing reverse movement of a rotary member, comprising a rotary element, a pivotal locking device, frictionally operating means for moving said device into engagement with said element upon reverse movement of said member, and a stop limiting the pivotal movement of said device in one direction, said device being adapted for wedging engagement with said stop in assuming the engagement stated with said element.

1,384,634. CARRIAGE-LOCK FOR CALCULATING-MACHINES. EDGAR E. PHINNEY, West Orange, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a Corporation of New York. Filed Feb. 7, 1920, Serial No. 356,882. Renewed May 12, 1921. Serial No. 468,978. 11 Claims. (Cl. 235—63.)



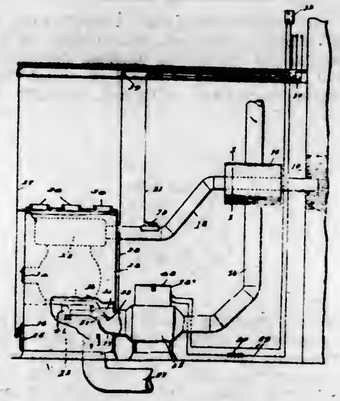
1. In a calculating machine, a frame, an endwise-shiftable carriage, registering dials thereon, gears upon said dials, driving gears mounted on said frame, means for operating said driving gears, and locking means preventing movement of the operating means whenever the gears of said dials are out of mesh with said driving gears.

2. In a calculating machine, a frame, an endwise-shiftable carriage, registering dials thereon, gears upon said dials, driving gears mounted on said frame, means for operating said driving gears, and means actuated by the operating means for shifting said carriage endwise to bring the gears of said dials into mesh with said driving gears.

1,384,635. HOT-AIR FURNACE. JONATHAN I. QUARMBY, EARL J. EWING, and SAMUEL R. EWING, Lansing, Mich. Filed Apr. 18, 1919. Serial No. 291,084. 2 Claims. (Cl. 126—99.)

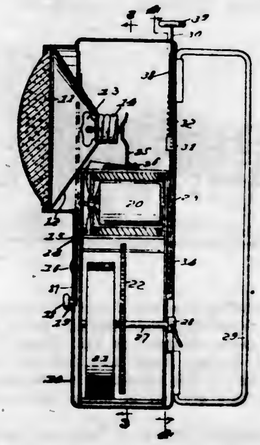
1. A hot air furnace of the class described comprising a smoke pipe leading therefrom, a heating drum mounted upon said smoke pipe, a cold air intake pipe passing through said drum, a drum connected with said intake pipe, a firebox contained within said furnace, a motor mounted within a casing to provide for drawing heated

air therefrom, and forcing same into the furnace, a shaft located within said chamber, a belt provided on said



motor for driving said shaft, a fan mounted upon said shaft located within said drum, and a short pipe section mounted upon said shaft located within said drum.

1,384,636. FLASHLIGHT. ARTHUR C. SACHSE, Detroit, Mich. Filed Sept. 2, 1920. Serial No. 407,730. 4 Claims. (Cl. 240—8.5.)

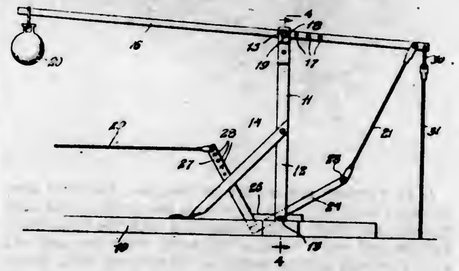


1. A flash light having a lamp and magneto generator, actuating spring for the generator, a train of gearing operatively connecting the spring with the generator, and a controlling device having a stem provided with a rack for engaging the gear element of said train to impart initial movement to the same in the direction of operative rotation, the rack being subsequently disengaged from said gear element.

1,384,637. UNSATURATED ETHER OF ETHENYL-PARADIOXYDIPHENYLAMIDIN. JOSEF SCHULER, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Filed Mar. 9, 1921. Serial No. 450,928. 1 Claim. (Cl. 23—24.)

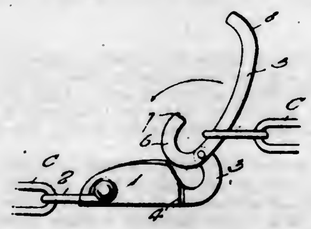
As a new product, the herein described ethenyl-p-dialloxydiphenylamidin, being a local anesthetic particularly adapted for ophthalmological practice and constituting colorless crystals melting at 85 to 86° C., very readily soluble in alcohol and ether and insoluble in water and forming a hydrochlorid melting at 152 to 153° C., which dissolves easily in alcohol, is less soluble in water and is insoluble in ether.

1,384,638. PUMPING-JACK. HENRY T. SCOTT, Wichita Falls, Tex. Filed Aug. 18, 1919. Serial No. 318,377. 1 Claim. (Cl. 74—5.)



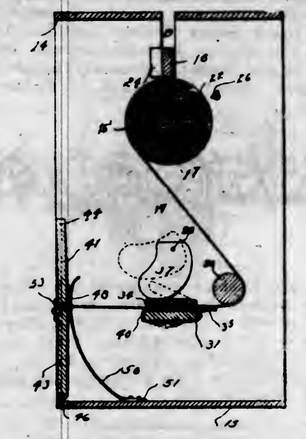
In a pumping jack, a base, a frame secured thereto and arising therefrom, said frame including spaced legs, brace members between the legs and base, spaced ears on the outer end of the frame, a walking beam having spaced openings therethrough disposed nearer one end thereof than the other, a pivot member passing through the ears and through one of the said openings, a counter-balancing weight on the walking beam at the end thereof farthest from the pivot, a link pivotally secured to the walking beam adjacent to the opposite end thereof, a saddle casting having a lateral axle connected to the link, bearings on the base for said axle contacting with the arms of the frame, an angle arm secured to the free end of the saddle casting, said arm having spaced transverse openings therethrough designed to receive in any one thereof a shackle rod or cable which is connected to the operating engine for the jack, a link on the end of the walking beam outward of the first mentioned link, a rod connected therewith, said rod being connected with the sucker rod of a pump.

1,384,639. TIRE-CHAIN RETAINER. GEORGE E. SELLERS, Palouse, Wash. Filed Nov. 11, 1920. Serial No. 423,375. 2 Claims. (Cl. 24—69.)



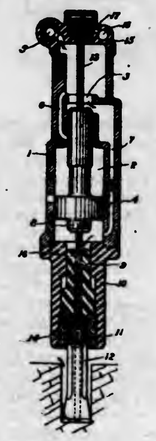
2. The structure set forth in claim 1, said plate being relatively wide at one end and comparatively narrow at its opposite end, the lower edge thereof being straight and the upper edge being curved longitudinally from the wide end to the narrow end, and said latch arm being curved longitudinally to conform and fit snugly against the correspondingly curved upper edge of the plate, the free end of said arm being more abruptly curved and extending around the first named end of the plate to the lower edge of the latter, thereby being guarded against accidental opening when struck by obstacles.

1,384,640. PAPER-DISPENSING DEVICE. ALBERT SIMPSON, Falun, Alberta, Canada. Filed Oct. 1, 1920. Serial No. 414,079. 8 Claims. (Cl. 211—32.)



1. A paper dispensing device comprising a casing, a paper support arranged within the casing, a fixed tension strip in the casing, a second tension strip above said fixed strip, connections between said strips whereby the second strip will be supported above and normally parallel with the fixed strip and may be moved toward and from the fixed strip, arms pivoted in the casing above the second-mentioned tension strip to bear upon the same and hold it upon paper passing over the fixed tension strip, and means in advance of the tension strips to permit withdrawal of a portion of the paper and sever the withdrawn portion.

1,384,641. BLOWING DEVICE FOR PERCUSSIVE TOOLS. WILLIAM A. SMITH, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 5, 1918. Serial No. 265,401. 4 Claims. (Cl. 121—10.)



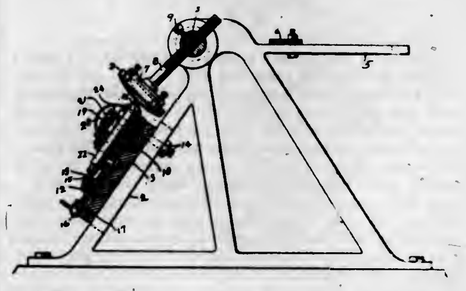
1. In a blowing device for percussive drills, a cylinder, a front head, an anvil block provided with a longitudinal hole within said front head, a rod extending through said cylinder and anvil block and reduced in cross section near its forward end so that when the drill cylinder is moved back, permitting said anvil block to move forward relatively thereto, communication is opened directly from the forward end of the drill cylinder through the anvil block to the hole in the drill steel.

1,384,642. CAN-OPENER. JONATHAN R. SPENCER, Long Beach, Calif., assignor of one-half to Frank W. Smith, Los Angeles, Calif. Filed Apr. 11, 1917. Serial No. 161,203. 1 Claim. (Cl. 30—3.)



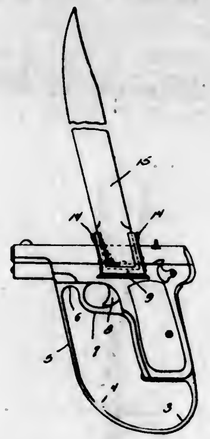
A can opener comprising a handle constructed from a single length of material bent upon itself to form converging side members terminating in parallel portions, said parallel portions having their ends bent at right angles in opposite directions to form ears, each ear having a corresponding straight edge and an arcuate shaped edge, a shank secured between the parallel portions and having one end thereof projecting slightly beyond the ears, a curved blade formed on a side portion of said end of the shank and leaving one corner of the end of the shank exposed to form a biting edge, said blade having substantially plano-convex side faces to form curved cutting edges extending in corresponding directions and one being of an increased curve over the other.

1,384,643. MACHINE FOR TRUING LENS-GRINDING DISKS. GEORGE A. SQUIER, Cleveland, Ohio. Filed Oct. 1, 1917. Serial No. 194,141. 9 Claims. (Cl. 82—12.)



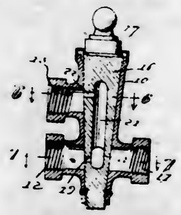
1. In a machine as described, a cutting tool and a holder for stock to be cut, and a constantly rotating shaft having a transverse opening and one of said parts being provided with a stem extending through said opening and adjustably fixed therein, and the other of said parts being also mounted for adjustment toward or away from said shaft and movable in an arc having the axis of the shaft as a chord thereof.

1,384,644. SWORD-HILT PISTOL. FRANK STULLER, Rivesville, W. Va. Filed Oct. 11, 1920. Serial No. 415,966. 2 Claims. (Cl. 42—53.)



2. A pistol having a guard formed between the outer and lower corner of its grip and its barrel, an outwardly projecting upwardly disposed angularly arranged socket upon the barrel of the pistol, spring influenced lugs entering the sides of the socket, and the springs for said lugs having their outer ends rounded to provide finger grips, and said socket designed to receive therein the end of a sword blade which is formed with notches to be engaged by the spring pressed lugs.

1,384,645. HOUSE-SERVICE VALVE. TIMOTHY J. SULLIVAN, Warmsprings, Mont. Filed June 9, 1920. Serial No. 387,661. 1 Claim. (Cl. 251—94.)



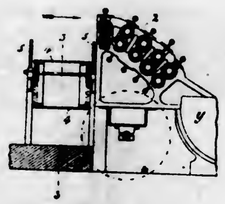
A valve for the purpose indicated consisting of a casing provided adjacent its lower end with an inlet and diametrically opposite said inlet with an outlet for connection to a cold water service pipe, the casing being provided above the outlet with an opening identical to the same and designed for connection to a hot water service pipe, a valve plug mounted in the casing and having a transversely cored passage, the casing being provided with a vent with which said passage may be brought into registration, the plug being formed with a drain port communicating with said passage and being further formed with a longitudinal channel and with a drain port opening into said channel adjacent the upper end, and means for imparting angular or turning movement to the plug whereby when the cored passage is in registration with the vent in the casing, the two aforesaid drain ports are respectively in registration with the hot and cold water service outlets, the turning of the plug shifting the cored passage out of registration with said vent and into registration with the inlet opening of the casing and with the cold water service outlet when the drain ports are moved out of registration with said casing outlets.

1,384,646. PLATE-FEEDING APPARATUS. HUBERT SPENCE THOMAS, Llandaff, and WILLIAM ROBERT DAVIES, Whitchurch, near Cardiff, Wales, and RICHARD BEAUMONT THOMAS, deceased, Englefield Green, England, by Nora Constance Beaumont Thomas, Englefield Green, England, Henry Robert William Anderson, London, England, and Charles Bathurst, Lydney, England, executors of said Richard Beaumont Thomas. Filed Aug. 6, 1917. Serial No. 184,768. 2 Claims. (Cl. 271—28.)



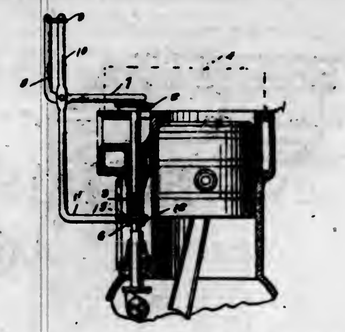
1. In a tinning machine or apparatus, a series of yieldable cup-like suckers carried by arms on a rocking shaft, in combination with a series of pivoted yieldingly supported tables to contain piles of plates, said suckers being capable of accommodating themselves to the varying heights and inclinations of the surfaces of the uppermost plates in the respective piles.

1,384,647. APPARATUS FOR CLEANING AND POLISHING METAL-COATED PLATES. HUBERT SPENCE THOMAS, Llandaff, and WILLIAM ROBERT DAVIES, Whitchurch, near Cardiff, Wales, and RICHARD BEAUMONT THOMAS, deceased, Englefield Green, England, by Nora Constance Beaumont Thomas, Englefield Green, England, Henry Robert William Anderson, London, England, and Charles Bathurst, Lydney, England, executors of said Richard Beaumont Thomas. Original application filed Aug. 6, 1917, Serial No. 184,768. Divided and this application filed May 13, 1918. Serial No. 234,303. 1 Claim. (Cl. 51—23.)



In a tinning machine or apparatus, a dusting and cleaning appliance adapted to be placed at the rear end of the machine, said appliance being of a width proper to receive and treat a series of plates or sheets abreast or side-by-side, an endless traveling conveyer at the rear of the said dusting and cleaning appliance, said conveyer being of a length proper to receive the series of plates or sheets as they emerge from and fall clear of the rolls of the wide dusting and cleaning appliance, means for moving the traveling conveyer at such a rate of speed that the series of plates or sheets simultaneously received by the conveyer is removed from the path of the plates or sheets which will next be delivered thereon and is carried to a second or additional dusting and cleaning appliance in a single series, the rolls of the second or additional dusting and cleaning appliance being arranged at such an angle to the wide rolls of the first mentioned dusting and cleaning appliance that the plates or sheets are acted upon by the rolls of the second or supplementary dusting and cleaning appliance in a direction different from that effected by the rolls of the first mentioned dusting and cleaning appliance, the plate or sheets as they leave the second or supplementary dusting and cleaning appliance being collected into a single pile

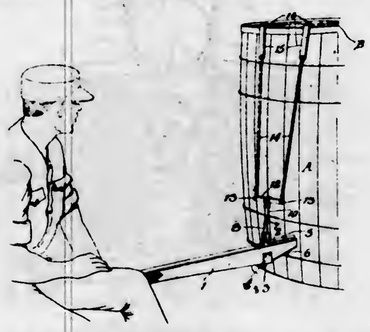
1,384,648. VALVE-SPRING LIFTER. EARL E. TIBBETS, Hebron, Nebr. Filed July 22, 1919. Serial No. 312,491. 1 Claim. (Cl. 29—86.8.)



A valve spring lifter comprising a horizontally disposed arm adapted to rest on the head of a valve, an outwardly and upwardly inclined handle formed on said arm, a second handle of a greater length than the first handle pivoted to the arm adjacent its formation onto the first handle, said second handle terminating in a plane substantially with the free end of the first handle, a second horizontal arm formed on the lower end of the second handle and extending at right angles to the second handle and in a plane below the first arm, an enlarged portion formed on the end of the second arm and having a slot opening outwardly through one edge thereof and having a concaved recess in its upper face, and a ring pivoted to the first handle and adapted to engage over the second handle when said handles are moved in parallelism.

1,384,649. [WITHDRAWN.]

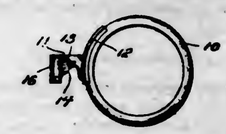
1,384,650. TOOL FOR HEADING HOGSHEADS. ROMMIE PUREFOY WATSON, Wilson, N. C. Filed Aug. 10, 1920. Serial No. 402,539. 2 Claims. (Cl. 147—7.)



1. A barrel-header comprising a lever, having a pointed prong at one end, a link pivoted to the lever and spaced from the point carrying end, an equalizing bar pivoted to the link, and hook members for engaging a barrel head pivotally connected to the equalizing bar by flexible members.

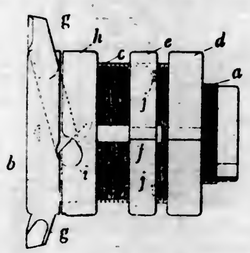
1,384,651. STRING-CUTTER. OTTO WEDMAN, Tacoma, Wash. Filed Jan. 3, 1920. Serial No. 349,233. 1 Claim. (Cl. 30—14.)

A cord cutter embodying a ring, a cutting member made from a single piece of material and comprising a base shaped to conform to the periphery of the ring and secured to said ring, an arm extending from one side edge of the base and disposed radially of the ring, said arm having its flat face substantially flush with one edge of



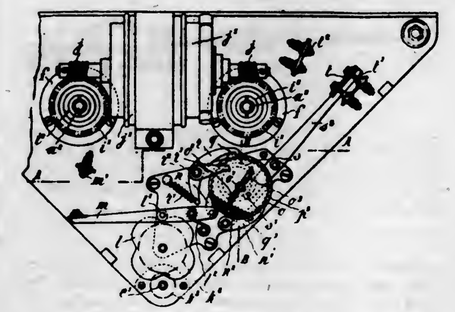
the ring and its outer end bent over and extending inward to form a curved guide and a cutting edge formed on one side edge of the arm between the ring and guide, said edge being defined by a plane parallel to the plane defined by the edge of the ring.

1,384,652. BORING AND OTHER CUTTING TOOL. GEORGE WILLIAMSON, Oldham, England. Filed Feb. 21, 1921. Serial No. 446,857. 6 Claims. (Cl. 77—58.)



1. In a tool of the type described, a body member, a member mounted for movement thereon, said body and movable members having normally alined cutter receiving portions, means mounted on the movable member for effecting adjustment of the cutter, and means for moving the movable member with respect to the body member to clamp the cutter in adjusted position, and also acting to prevent displacement of the cutter adjusting means.

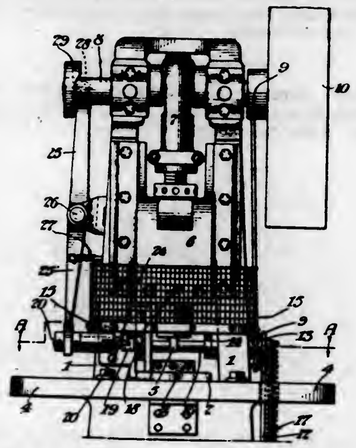
1,384,653. AUTOMATIC INDICATING APPARATUS. JOSEPH ANDRÉ ZAHAR and ERNÉ ALFRED LAURENT VOLET, Paris, France. Filed Dec. 24, 1917. Serial No. 208,618. 7 Claims. (Cl. 40—53.)



1. An automatic indicating apparatus comprising, in combination, a flexible band, a pair of rollers coöperating with said band, an electric motor, transmission mechanism between said motor and each of said rollers and adapted to actuate said rollers to cause travel of said band in

opposite directions respectively, each of said transmission mechanisms including a normally engaged clutch, and electromagnetic means for alternatively disengaging said clutches, said electromagnetic means causing the transmission mechanism of the disengaged clutch to act as a brake upon the corresponding roller to maintain a tension upon said band.

1,384,654. SAFETY DEVICE FOR STAMPING-PRESSES AND THE LIKE. FRANK ALLEY, West Hartford, Conn., assignor to The Arrow Electric Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 4, 1921. Serial No. 434,978. 6 Claims. (Cl. 74—105.)



1. A safety device for stamping presses and the like, comprising a movable safety shield in combination with a movable latch to lock the shield in safety position and independent means adapted to be continuously controlled by a power-operated part of the press mechanism for operating said latch.

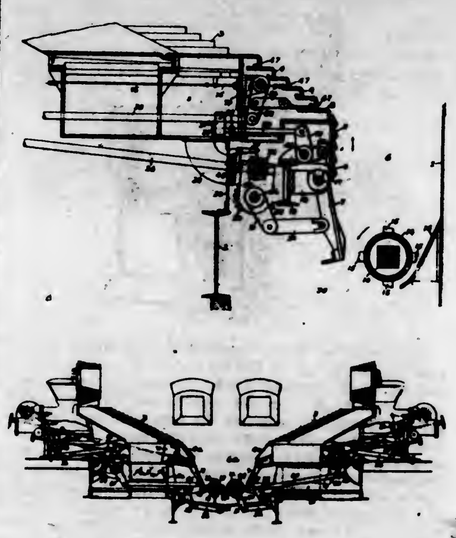
1,384,655. WRENCH. JOSEPH G. ALLMON, West Medford, Mass. Filed Aug. 10, 1920. Serial No. 402,561. 8 Claims. (Cl. 81—119.)



8. An inclosed, rigid jaw wrench, having nut engaging surfaces parallel with the axis of the wrench, an under face oblique to said axis, a perforated stop web opposite said under face, and a handle extending substantially at right angles to the axis.

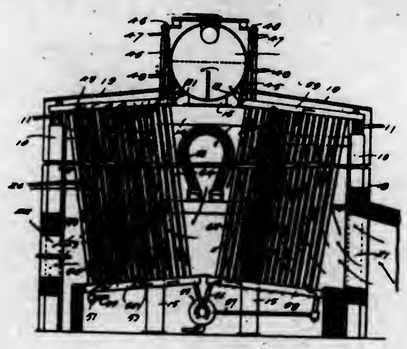
1,384,656. STOKER. MAXWELL ALPERN, Philadelphia, Pa., assignor to American Engineering Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 18, 1915. Serial No. 62,206. 16 Claims. (Cl. 110—44.)

10. The combination in a stoker having a transversely extending ash pocket; of means for discharging ashes from said pocket; plates movable toward and from said means to vary the size of the ash discharge opening; means for operating said plates; a substantially air tight casing surrounding certain of said parts adjacent



the air pocket and communicating with the stoker furnace; and means for discharging air under pressure to said casing.

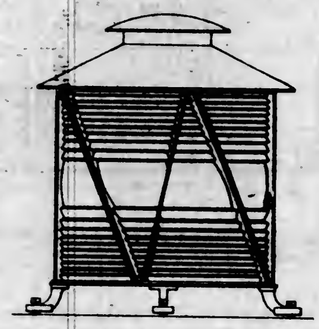
1,384,657. BOILER CONSTRUCTION. GEORGE C. BAKER, Bayonne, N. J. Filed Oct. 1, 1919. Serial No. 327,684. 3 Claims. (Cl. 122—332.)



1. A boiler including a frame structure, a drum carried by the frame structure, vertically extending water tubes positioned in the frame upon opposite sides of the drum and arranged in front and rear sets, lower water heads communicating with the tubes and arranged in front and rear sets, conduit means communicating with the lower water heads for delivering water from the rear sets of water heads to the forward sets of water heads and provided with outlet means for withdrawal of water from the boiler, upper water heads communicating with the tubes and arranged in front and rear sets, and conduits communicating with the upper water heads and with the

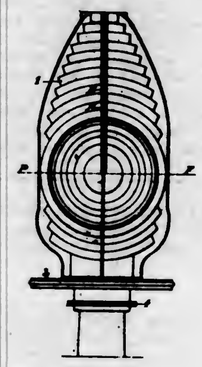
drum whereby water may pass from the upper front set of water heads to the drum and from the drum to the upper rear set of water heads of the rear tubes.

1,384,658. OCCULTING LIGHT. HENRI-LUGLIEN MARIE JOSEPH BÉNARD, Paris, France. Filed Apr. 3, 1919. Serial No. 287,836. 3 Claims. (Cl. 177—346.)



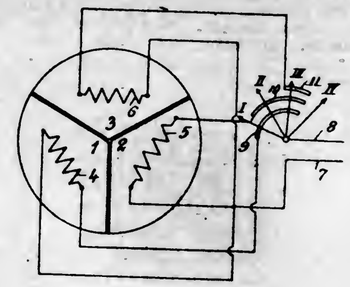
1. A light for signaling and other purposes, comprising a source of light, shutters adapted to obstruct or give passage to the beam, electro-magnetic means for moving said shutters in either direction, means for distributing current to said electro-magnetic device, and controlling means for said distributing device, said controlling means being changeable according to the signal to be transmitted.

1,384,659. AERIAL SIGNAL-LIGHT. HENRI LUGLIEN MARIE JOSEPH BÉNARD, Paris, France. Filed May 23, 1919. Serial No. 299,104. 4 Claims. (Cl. 240—49.)



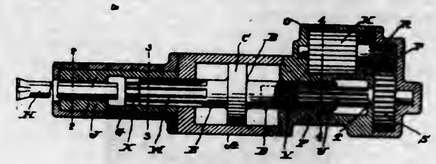
1. A signal light for use in aerial navigation, comprising in combination a source of light, an optical system for projecting the beam from said source, said optical system having a narrow central aperture extending from a horizontal plane passing through the light source to the zenith.

1,384,660. ELECTRIC HEATING-PLATE. MICHAEL GORRITZEN, Stavanger, Norway. Filed Nov. 10, 1920. Serial No. 423,067. 2 Claims. (Cl. 219—37.)



1. An electric heating plate comprising a plurality of sector shaped sections, an independent heating element in each section, and a switch for connecting one of more of said heating elements with a supply current.

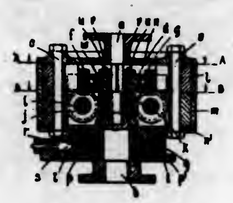
1,384,661. ROTATION MEANS FOR PERCUSSIVE TOOLS. HENRI AUGUSTUS GUILEY, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 22, 1920. Serial No. 367,943. 1 Claim. (Cl. 121—7.)



A fluid actuated rock drill of the hammer type having independent rotation for the drill bit and comprising a cylinder casing, a reciprocating hammer piston therein having a main head and a forwardly extending reduced shank, said shank being provided with straight longitudinally extending flutes, a front head for the cylinder casing, a rotation sleeve therein adapted to receive and hold a drill steel in sliding but non-rotatable engagement, the rotation sleeve having internal straight flutes cooperating with the flutes on the piston shank thereby affording slidable but relatively non-rotatable engagement between the rotation sleeve and the forwardly extending piston shank, a removable back cylinder extension for the cylinder casing, a driven spur gear carried by the back cylinder extension in axial alinement with the piston, a spindle for said spur gear having straight longitudinal flutes, a rearward portion of the piston also being provided with straight flutes coöperating with the flutes on the said spindle, thereby affording slidable but relatively non-rotatable engagement between the spindle and piston, a motor casing located at the side of the back cylinder extension, an independent rotary fluid actuated gear motor in said motor casing, one of the gears of said motor being geared to the driven gear for imparting continuous rotation thereto, whereby continuous rotation is imparted to the reciprocating piston both on the forward and on the rearward stroke and also continuously imparted to

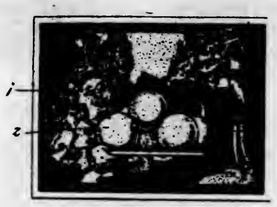
the rotation sleeve and drill steel, the back cylinder extension having a back head inclosing the driven gear and also forming a back head for the motor casing.

1,384,662. REDUCTION-GEAR. ERNEST CHARLES HATCHER, Finchley, London, and THOMAS ROOKE, Hampstead, London, England. Filed Jan. 20, 1921. Serial No. 438,699. 11 Claims. (Cl. 74—36.)



1. In a gear for transmitting motion from a driving shaft to a driven shaft, spindles mounted transversely to the shafts, each of said spindles carrying a worm wheel, gearing connecting the said spindles, a worm on the driving shaft in gear with the worm wheel on one of the said spindles, and a worm wheel on the driven shaft in gear with the worm on the other spindle.

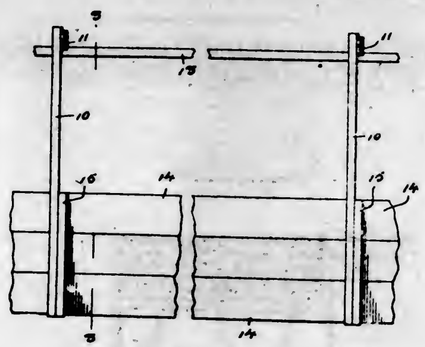
1,384,663. METHOD OF PRODUCING COLOR-PRINTS. JOSEPH A. IMHOF, New York, N. Y., assignor to Invisible Color Print Corporation, New York, N. Y., a Corporation of New York. Filed May 23, 1921. Serial No. 471,635. 5 Claims. (Cl. 41—20.)



1. The process of producing a design of apparently uniform color but carrying soluble coloring matter in substantially invisible form, which consists in applying a definite amount of coloring matter to the entire surface that is to be colored, by printing, from half-tone plates or the like supplied with a mixture of insoluble ink and soluble coloring matter, a plurality of partial images, in superimposed and partially overlapping relation, said partial images having incomplete components of light and shade and of latent color, the aggregate and overlapping of the partial images creating a complete image of apparently uniform color having requisite light and shade and proper latent coloring.

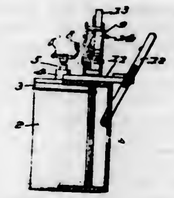
1,384,664. STEEL CLAMP. JONAS C. JACOBY, South Bethlehem, Pa. Filed Feb. 20, 1920. Serial No. 360,204. 2 Claims. (Cl. 25—131.)

1. A concrete form comprising suspending U-shaped arms arranged in pairs, sectional side walls detachably secured thereto, links pivotally connected to the opposing sides of the said arms, a nut pivotally connecting the links



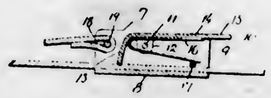
and a threaded rod engageable with the nuts to provide relative adjustment of the arms.

1,384,665. CHURN. FRED H. JONES, Zanesville, Ohio. Filed Nov. 27, 1918. Serial No. 264,386. 1 Claim. (Cl. 185—37.)



A device for the purpose indicated comprising a supporting member, a driving element, a gear carried by the driving element, a spring motor carrying a gear for meshing with the last said gear, a base on which the motor is carried, slides mounted on top of the supporting member and engaging the base to permit sliding movement of the latter, and a hand lever secured to the supporting member by a pivotal connection at one end of the lever, the lever having an operative connection with the base whereby swinging movement of the lever may impart sliding movement of the base to shift the gear on the motor into and out of mesh with the gear on the driving element.

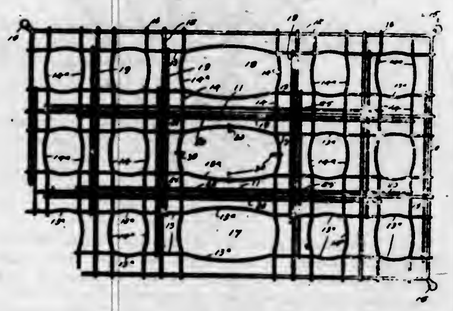
1,384,666. CATCH DEVICE FOR ADJUSTING STRAPS FOR LENGTH. JAMES H. LAMONT, Coatesville, Pa. Filed Dec. 21, 1920. Serial No. 432,199. 1 Claim. (Cl. 24—191.)



An open-ended box-form device for adjusting a strap for length, consisting of a sheet-metal body having a bottom and lateral flanges extending the full length thereof, a lever fulcrumed between said flanges and having an inturned arm extending toward said bottom and adapted in coöperation therewith for frictional engagement with a strap, a transverse strap-confining pin connecting said

flanges at one end portion of said body and spaced apart from said bottom, and a transverse strap-engaging pin connecting said flanges near the other end portion of said body adjacent to said inturned arm, said lever forming one side of said device and being protected throughout the major portion of its length by said flanges, and a spring located between said flanges and bearing at one end against said lever and at the other end against said first named pin.

1,384,667. SELF-DISCHARGING TRAY. HARRY LEE, Livingston, Mont. Filed Apr. 9, 1920. Serial No. 372,520. 7 Claims. (Cl. 294—87.)



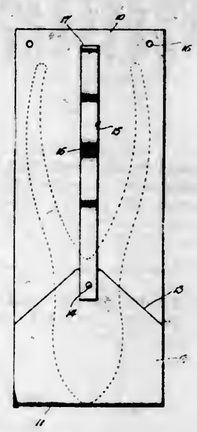
1. A serving tray having a main or supporting frame, pairs of clamping rods arranged in intersecting relation, the members of each pair being movable toward and from each other in a direction at right angles to that of the intersecting pair, and means for actuating said clamping rods.

1,384,668. VALVE. THOMAS D. LEWIS, Scranton, Pa. Filed Jan. 9, 1920. Serial No. 350,321. 6 Claims. (Cl. 162—1.)



1. The combination of a main valve body having a chamber in its outer end and a ribbed portion at its inner end and also having a longitudinal central bore or socket in the ribbed portion and pairs of opposite apertures in walls of the ribbed portion, one pair of apertures being nearer than the other pair of apertures to the inner end of the ribbed portion; a priming valve body having a stem dispersed in said bore or socket and also having a longitudinal diametrically disposed slot in said stem; a pin removably secured in one pair of apertures in the ribbed portion of the main body and extending through the slot in the stem of the priming valve body; a gland closing the chamber in the outer end of the main valve body; a stem movable through said gland and having a circumferentially grooved inner end portion in the chamber; and collar sections embracing the stem and disposed in said chamber and having interior ribs seated in the circumferential groove of the stem.

1,384,669. TOOL-HOLDER. LUDWIG D. LUTTMER, Wylie, Minn. Filed May 24, 1920. Serial No. 383,860. 1 Claim. (Cl. 2—151.)



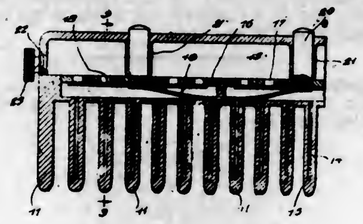
A tool holder comprising an elongated rectangular metallic plate formed at one end with an upwardly extending retaining portion disposed in spaced parallel relation to the plate, said plate being adapted for disposition within the user's pocket and being provided with holes for the passage of securing means, and an upwardly extending leaf spring disposed longitudinally of the plate and having its lower end secured to the upper end of said retaining portion and being bent intermediate its ends whereby to engage against the plate with its upper extremity bent away from the plate to define a flaring entrance opening between the plate and the spring.

1,384,670. FAUCET. ARTURO MÚNDEZ Y BARRIÉ, Habana, Cuba. Filed July 13, 1920. Serial No. 395,956. 1 Claim. (Cl. 251—46.)



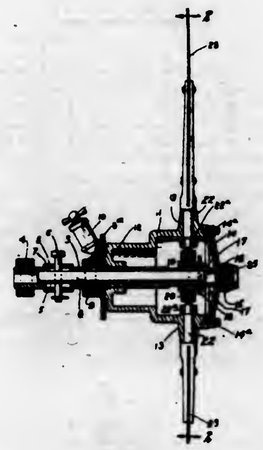
A faucet, comprising a body portion; a partition therein having a valve seat; a hollow valve coöperating with said seat and having a hemispherical socket formed in the upper face of its bottom wall; the upper wall of the valve being provided with a threaded opening; and an operating element for said valve having a reduced lower portion, one part of which is threaded, the diameter of such threaded part being equal to that of the threaded opening to permit said threaded portion to be screwed through said opening into the interior of the valve; the terminal of said reduced portion being rounded for coaction with said socket to permit a universal rocking movement of the valve relative to its operating element.

1,384,671. COMB. CHARLES MURRAY, Tuguegarao, Philippine Islands. Filed Aug. 17, 1920. Serial No. 404,135. 1 Claim. (Cl. 132—13.)



A comb having a hollow back to provide a reservoir, hollow teeth communicating with said reservoir and defining distributing tubes, a perforated partition located within the reservoir and a plunger operating within the reservoir to cover the perforations and to force the contents of the reservoir through the tubes.

1,384,672. REVERSIBLE FAN. RAY M. MURRAY, Billings, Mont. Filed Mar. 15, 1919. Serial No. 282,830. 2 Claims. (Cl. 170—163.)



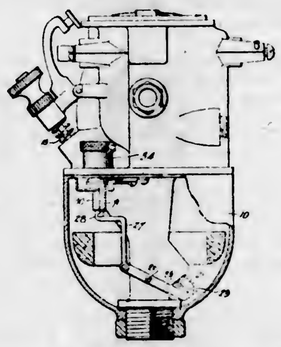
1. A device of the character described, comprising a bracket, a stationary tubular shaft carried thereby and provided with pairs of opposed slots near opposite ends thereof, a pin extending through one pair of said slots, a stationary shaft located within said tubular shaft and movable bodily in the direction of the length thereof, another pin carried by said last mentioned shaft and extending through the other pair of slots, a grooved wheel mounted on the first named shaft over the last named slots and receiving the second named pin therethrough, a revoluble casing on said tubular shaft and inclosing a portion of the same and said grooved wheel and second named pin, a blade carried by said revoluble casing, and adjustable angularly in relation thereto, and mechanism connected with said blade and with said grooved wheel for enabling axial adjustment of said wheels to adjust the pitch of the blade.

1,384,673. SWIMMING-GLOVE. SKJOLD J. NIELSEN, St. Paul, Minn. Filed Dec. 11, 1920. Serial No. 429,971. 4 Claims. (Cl. 9—21.)



1. In a swimming glove, a body having a wrist portion, finger stalls thereon, webs between the finger stalls, said finger stalls having overlapping edges, the edges of said webs being inserted between and attached to the overlapping edges of the finger stalls, and a substantially crescent shaped pocket forming member attached to the palm of said glove with its concave portion opened out toward the wrist portion of the glove.

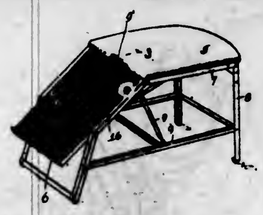
1,384,674. CARBURETER-LOCK. CHARLES EDGAR NORTHROP, Dayton, Ohio. Filed Sept. 19, 1919. Serial No. 324,968. 7 Claims. (Cl. 251—6.)



1. A carbureter lock, comprising a closing member that is adapted to be mounted on the valve seat tube of the needle valve of a carbureter to close the said valve seat tube, an actuating element that is adapted to actuate the said closing element, and a key controlled means for operating the said actuating member and locking it in position.

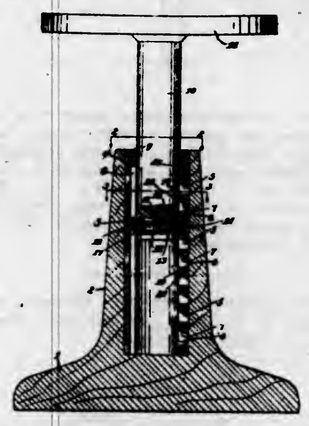
1,384,675. STOOL. FRANCIS PAUL RILEY, New York, N. Y., assignor of one-half to Edward J. Zitsman, New York, N. Y. Filed Oct. 9, 1920. Serial No. 415,749. 2 Claims. (Cl. 155—35.)

1. A device of the character described comprising a framework, a seat supported thereby, a foot board pivotally mounted in the framework and provided on one of its sides with a foot rest and on its other side with a mirror, means carried by the framework for securing the foot



board in one position, and means for operating said foot-board-securing means to release the foot board to permit of its automatically swinging to the other position.

1,384,676. ADJUSTABLE STAND. ALBERT V. RUFLE, Canton, Ohio. Filed Dec. 2, 1920. Serial No. 427,898. 3 Claims. (Cl. 248—41.)



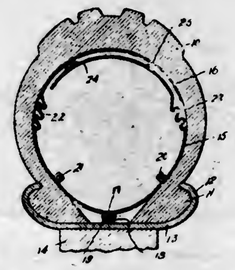
1. A stand comprising a base, a hollow column mounted thereon, a vertical row of notches within the interior of said column, the diametrically opposite side of the column being provided with a vertical groove, a stem slidably mounted within said hollow column and provided with a top, a block upon said stem extending into said groove and a spring pressed pawl carried by said stem and arranged to selectively engage said notches.

1,384,677. PROCESS FOR THE TREATMENT OF VEGETABLE FIBERS. CHARLES SCHWARTZ, Villeurbanne, France, assignor to Societe Gillet & Fils, Lyon, Rhône, France, a Corporation of France. Filed Dec. 9, 1919. Serial No. 343,578. 2 Claims. (Cl. 8—20.)

1. A process for the treatment of vegetable fibers with a view to impart to them the character of wool, both physically, as to feel, appearance and caloric quality, and chemically, as regards their affinity and absorbent capacity for dyestuffs, said process comprising treating the vegetable fiber at the ordinary temperature with concentrated nitric acid and removing the acid by washing.

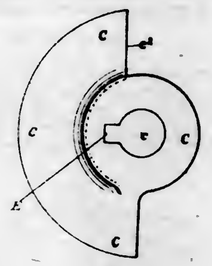
1,384,678. RESILIENT TIRE. WILLIAM B. SHAW, New York, N. Y. Filed Aug. 18, 1920. Serial No. 404,422. 5 Claims. (Cl. 152—8.)

4. A filler tube adapted to be placed within a resilient tire casing, comprising a plurality of sections, each of which includes a pair of members connected at one edge and having the remaining edges overlapped, anti-friction means between said overlapped edges, folds formed in



each member for increasing the resiliency thereof, and means for connecting said sections together to provide a unitary structure.

1,384,679. WORM-SCREW OF EXTRUSION AND LIKE PRESSES. ALBERT WILLIAM SIZER, Hessle, near Kingston-upon-Hull, England. Filed Nov. 6, 1920. Serial No. 422,332. 3 Claims. (Cl. 25—14.)



1. The combination, with a press screw, and its driving shaft; of a protecting cap for the front end of the screw, said cap comprising a hub plate which encircles the said shaft, and a spiral blade portion arranged at an angle to the said hub plate and fitting against the end of the thread of the screw.

1,384,680. MANUFACTURING FLAVORING EXTRACTS WITH HIGHER ALCOHOLS. BERNARD H. SMITH, Brooklyn, and JOHN R. EOFF, Jr., New York, N. Y., assignors to Garrett & Company, Inc., a Corporation of New York. Filed July 26, 1920. Serial No. 399,089. 11 Claims. (Cl. 99—11.)

1. A flavoring extract consisting of flavoring material dissolved in one of the higher alcohols, above ethyl, of the paraffin series.

1,384,681. MANUFACTURING FLAVORING EXTRACTS WITH GLYCOLS. BERNARD H. SMITH, Brooklyn, and JOHN R. EOFF, Jr., New York, N. Y., assignors to Garrett & Company, Inc., a Corporation of New York. Filed July 26, 1920. Serial No. 399,090. 10 Claims. (Cl. 99—11.)

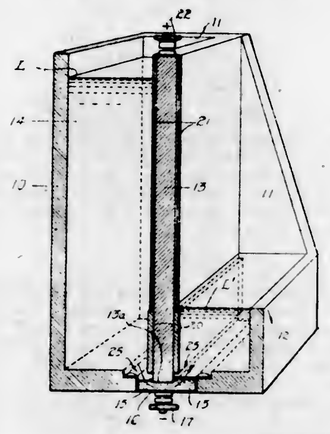
1. A flavoring extract consisting of a flavoring material dissolved in a glycol.

1,384,682. PADLOCK. FRANK SOLEY, Philadelphia, Pa., assignor to Miller Lock Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 31, 1921. Serial No. 457,189. 7 Claims. (Cl. 70—108.)



5. The combination in a padlock, of a casing having an opening extending therethrough; internal projections in the casing; a shackle having a long leg extending into an opening in the casing; two carrying plates, one on each side of the opening in the casing; a locking dog mounted on one pin and having a locking member engaging the shackle; a tumbler; a dog operating lever pivotally mounted on the other pin, both the tumbler and the lever having a notch to receive the locking member of the dog, the dog also having a projection extending over the operating lever so that when a key is inserted in the lock the operating lever will be forced against the projections and will withdraw the locking dog, said casing being recessed around the opening; a cover plate mounted in each recess and inclosing the carrying plates; and rivets retaining the cover plates in position.

1,384,683. PROCESS FOR AMALGAMATING METALS. RANSOM H. STEVENS, Los Angeles, Calif., assignor of one-third to W. R. Crowell and one-third to L. C. Comer, Los Angeles, Calif. Filed Aug. 29, 1918. Serial No. 251,909. 3 Claims. (Cl. 83—65.)



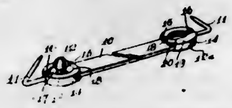
1. The process of amalgamating metals which embodies passing a liquid-containing the metal to be amalgamated beneath a partition that extends below the level of a body of an amalgamating substance, the upper surface of the amalgamating substance being depressed beneath the partition by the weight of the body of liquid to form a passage through which the liquid flows in contact with the amalgamating material, and causing an electric current to flow through the liquid prior to and while it is in condition with the amalgamating substance.

1,384,684. SPANNER-WRENCH. GUSTAVE HAROLD WATKINS, Jacksonville, Fla. Filed Jan. 8, 1921. Serial No. 435,843. 1 Claim. (Cl. 81—99.)



A spanner wrench comprising a handle with a slotted end, a curved jaw pivoted in said slot and having a hooked end, a pawl fitted to the handle provided with a hooked end engaging notches, or serrations, in the convex edge of said jaw, a spring fastened at one end of the handle allowing the free end of said spring to bear against the pawl, and means for limiting the throw of the pawl in one direction.

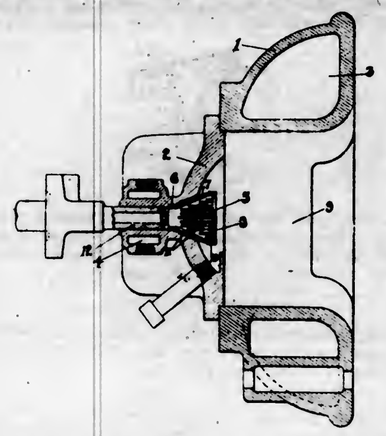
1,384,685. GARMENT-FASTENER. ERNEST J. F. WEIG, New York, N. Y. Filed Oct. 30, 1920. Serial No. 420,691. 3 Claims. (Cl. 24—73.)



3. A device of the class described, including a strip of elastic fabric, hooks disposed toward each other, the shanks of said hooks having eyes positioned at the ends of the strip, ball and socket fastener elements disposed on said eyes, and base plates on which the ends of the strip are positioned, said base plates having flanges turned over and serving to clamp the ball and socket fastener elements and said eyes to said strip.

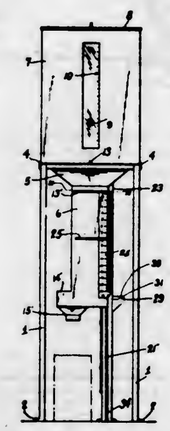
1,384,686. VAPORIZER FOR INTERNAL-COMBUSTION ENGINES. ADOLPH F. CHRISTMAS, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 27, 1918. Serial No. 225,074. 3 Claims. (Cl. 123—30.)

1. In a liquid fuel internal combustion engine, the combination with a cylinder having a combustion chamber, a vaporizer head for said cylinder, a vaporizer located within said head and adapted to absorb the heat of the explosion and impart said heat to the injected liquid fuel to convert the liquid into a vapor or gas, said vaporizer comprising a conical hollow body having a plurality of substantially parallel extensive internal surfaces with relatively small open spaces in order that the injected fuel may absorb sufficient heat in the vaporizer to become vaporized or gasified before entering the combustion chamber, said body portion increasing in diameter and volume of metal from inlet to outlet, lateral outlet



apertures from said vaporizer to the combustion chamber and a fuel nozzle opening into an end of the hollow body portion of said vaporizer.

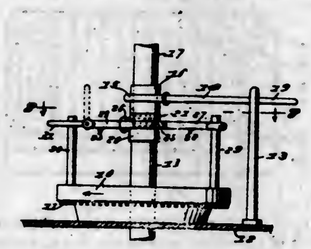
1,384,687. DISPENSING-MACHINE. MARION E. CONKLING and ERNEST E. BUSHELL, Lawton, Okla. Filed June 11, 1920. Serial No. 388,255. 7 Claims. (Cl. 221—95.)



1. In a product dispensing apparatus, a bin having a slidable valve controlling the outlet thereof, a hopper below and removably associated with the bin and having a valve controlled inlet, a slidable product receiving member in the hopper, means for retaining the member at varying determined positions relative to the valve in the hopper, means for releasing said retaining means to permit the gravitating of the member through the hopper, means for limiting the movement of the member in such direction, and means for discharging the products from the member when the latter is in its lowered position.

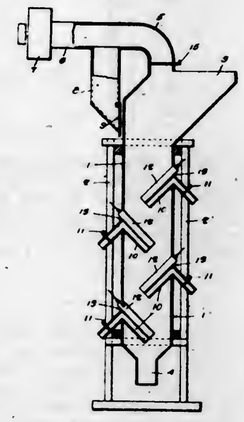
1,384,688. BACK-UP OR GO-AROUND TONG. HUGH CORRIGAN, Duncan, Okla. Filed Mar. 2, 1920. Serial No. 362,663. 3 Claims. (Cl. 255—23.)

1. An apparatus of the class described having in combination with means for holding one member of a coupling or union, a rotary head and a clamp carried by said head for engagement with the other coupling or union member and consisting of complemental lever members respectively of the first and third order with the inner



extremity of the former pivotally connected with an intermediate point of the latter and provided with opposed clamping jaws, said clamping members having terminals bearing upon the rotary head.

1,384,689. GRAIN DRIER AND COOLER. MONROE DAVIS, Enid, Okla., assignor of one-half to Armond R. Arceneaux, Welsh, La. Filed Mar. 25, 1920. Serial No. 368,575. 3 Claims. (Cl. 34—37.)

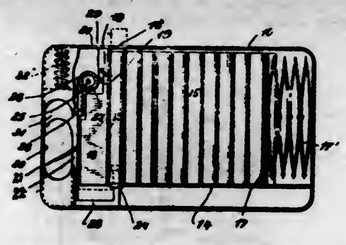


2. A device of the class described comprising a casing provided with a grain inlet at its top and a grain discharge at its bottom, a plurality of superimposed declining baffles arranged alternatively at opposite sides of said casing and consisting of right angular shaped air ducts secured at the junctions of their right angularly arranged portions to the walls of said casing and leading from the exterior thereof to the interior of the same, and electrically heated plates supported upon the innermost portions of said air ducts, and an air discharge at the top of said casing.

1,384,690. CIGARETTE-CASE. CHARLES DOMINICK, Bath, Me. Filed Apr. 8, 1920. Serial No. 372,252. 4 Claims. (Cl. 131—59.)

4. In a device of the class described, a container for the articles to be dispensed and having a discharge opening, a receptacle for fuel having a lighting orifice, an ejector coacting with the opening, a shaft carrying a fire producing medium and a pinion, a rack carried by

said ejector and engaging said pinion, means for moving the ejector in one direction, and a spring arranged to



return the ejector to initial position and to reverse the movement of the shaft carrying the fire producing medium and effect the ignition of the fuel at the orifice.

1,384,691. SAFETY-RAZOR. JOHN C. DUNHAM, Greenville, Ohio. Filed May 26, 1920. Serial No. 384,300. 2 Claims. (Cl. 30—12.)



1. In a safety razor, a blade holding head, a stem extending loosely through the head, a handle attached to the latter, a locking disk fixed to the stem having a plurality of notches, a pair of upstanding ears carried by the head, a latch pivoted between the ears and adapted for engagement in any one of the notches to hold the head in any desired position about its axis.

1,384,692. ADDITION COMPOUND FOR COFFEE. NATHANIEL C. EMTAGE, New Orleans, La., assignor to Cornelius J. Everett, New Orleans, La. Filed Aug. 18, 1919. Serial No. 318,370. 4 Claims. (Cl. 99—11.)

1. A method of producing a coffee addition or substitute for chicory for mixing with genuine coffee, consisting of boiling molasses to a massecuite consistency of a bitter sweet taste and reducing the same to a syrup by the addition of water and then reboiling the syrup, mixing a ground cereal and pure ground roasted coffee and adding the molasses syrup as preliminarily prepared thereto at the boiling point, placing the mass in covered means and permitting it to cook slowly by its own heat, then baking the mass in an oven and permitting it to cool off in the same oven, and finally grinding and packing the cooled mass.

4. The herein described coffee addition compounded to serve as a substitute for chicory and for mixture with pure roasted coffee, consisting of molasses massecuite having a bitter sweet taste 50%, corn meal 30%, and pure roasted coffee 20%.

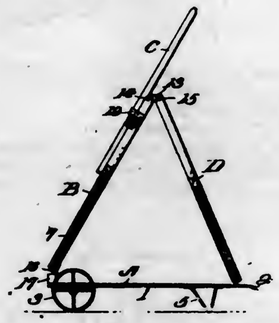
1,384,693. VEST-SUPPORTER. CLAYTON M. FLORKEY, Kokomo, Ind. Filed Jan. 10, 1921. Serial No. 436,185. 2 Claims. (Cl. 24—53.)

2. As a new article of manufacture a vest supporter formed of a single piece of sheet metal and comprising a main body, an attaching portion provided with thread receiving openings to permit attachment of the supporter to a vest, a collar button engaging portion, and a spacing portion connecting said collar button engaging portion



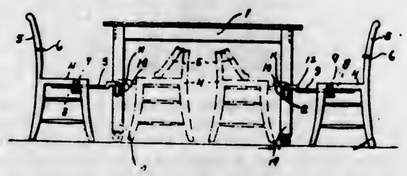
to the main body, said main body, spacing portion, collar button engaging portion provided with an opening to permit the mounting of the collar button engaging portion over the collar button.

1,384,694. WHEELED LADDER. EPHRIAM A. FOSTER Sandusky, Ohio. Filed Feb. 19, 1919. Serial No. 277,916. 1 Claim. (Cl. 228—16.)



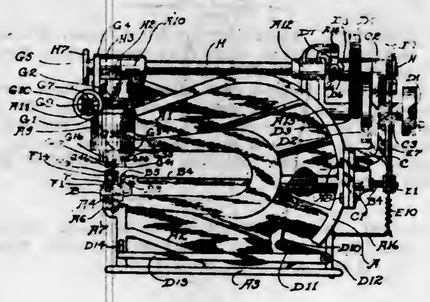
A wheeled ladder including a base mounted on wheels at one end, a block upstanding at the wheel end of the base, a main ladder section hinged at one of the upper corners of the block, a prop hinged to the ladder section, the prop being of a thickness substantially corresponding to the height of the block whereby when the parts are folded together they will lie substantially parallel and in compact relation to one another.

1,384,695. COMBINATION-TABLE. FRANK GILARSKI, South Chicago, Ill. Filed Sept. 22, 1920. Serial No. 411,975. 2 Claims. (Cl. 45—31.)



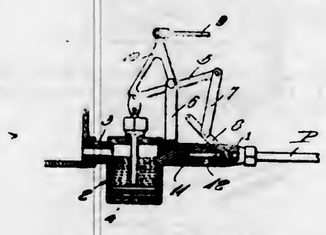
2. A device of the class described comprising a frame, legs supporting said frame, brackets on said legs, pins pivotally mounted in said brackets, rods extending integrally from said pins at right angles thereto, a longitudinal slot in each of said rods, a chair clamping means carried thereby operatively engaging with the mentioned slot, said rod being adapted to be swung about its bracket, means on said bracket for raising said rod when it approaches a position under said frame, said means comprising a lug extending upward from said bracket, and means permitting the back of the chair to be folded and pass under said frame.

1,384,696. MACHINE FOR CUTTING SHEET-FORM MATERIAL. CHARLES BAXTER GRAY, Philadelphia, Pa. Filed Oct. 9, 1918, Serial No. 257,501. Renewed June 7, 1921. Serial No. 475,829. 48 Claims. (Cl. 164—87.)



1. In a machine for punching sheet-form material, a die located at one side of the sheet plane, a reciprocatory punch located at the other side of the sheet plane in alinement with the die, sheet feeding means located adjacent the die and at the same side of the sheet plane and adapted to bear against a sheet in the sheet plane in any part of a circle surrounding the die axis, automatic means for giving said part of the sheet feeding means a step-by-step movement for feeding said sheet, presser feed means at the opposite side of the sheet plane, and operator-controlled means for moving said presser feed means around the die axis independently of the part of the feeding means which is at the opposite side of the sheet plane, whereby the relation between the two parts of the feeding means is varied for changing the direction of movement of the sheet, substantially as described.

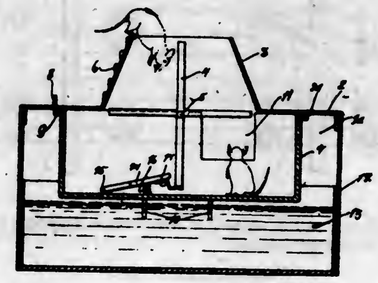
1,384,697. AUTOMOBILE-LOCKING DEVICE. JOSEPH H. HISSONG, Bartlesville, Okla. Filed Oct. 18, 1920. Serial No. 417,831. 9 Claims. (Cl. 251—6.)



1. In a device of the class described, the combination with a carbureter, of lock-controlled means for simultaneously cutting off the supply of fuel to the carbureter and also rendering the latter inoperative by withdrawing fuel therefrom.

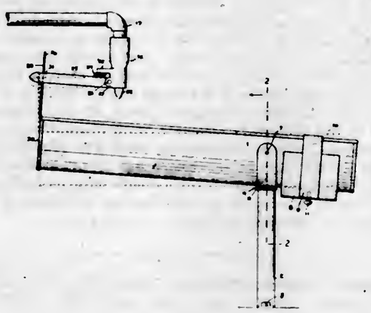
1,384,698. ANIMAL-TRAP. TOMASZ KALEMBA, Uniontown, Pa. Filed Jan. 17, 1921. Serial No. 437,766. 2 Claims. (Cl. 43—74.)

1. A device of the class described comprising an outer casing, a cover secured thereto, a substantially inverted-funnel-shaped entrance in said cover, a wheel rotatably mounted under said entrance, said wheel being composed of two intersecting planes providing four quadrantal sectors, a chamber releasably supported beneath said cover, said wheel being adapted to be rotated by the weight of



an animal thereon, and means for stopping said wheel after the same has been rotated one-fourth of a revolution.

1,384,699. POULTRY-WATERER. JOHN KRULL, Hayward, Calif. Filed Feb. 23, 1921. Serial No. 447,262. 6 Claims. (Cl. 119—81.)

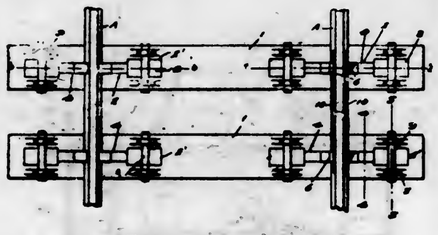


1. A poultry waterer embodying in its construction a standard, a bracket swiveled in said standard, a trough pivotally mounted on said bracket, a weight member adjustably supported upon the trough adjacent to one end thereof, a water supply pipe, a valve disposed adjacent the other end of the trough and connected with said water supply pipe and means of connection between said trough and valve operating to open said valve when the weight of the water in the trough is below a predetermined point and to close said valve when the weight of the water in the trough reaches said predetermined point.

1,384,700. COMBINED TIE AND BOLTLESS RAIL-JOINT. HERBERT O. MCGREGOR, Morgantown, W. Va. Filed Aug. 21, 1920. Serial No. 404,997. 3 Claims. (Cl. 238—181.)

3. A rail joint comprising a pair of fish plates having notches in their outer faces and holes in their inner faces, pins engaging said holes and holes in the webs of the rails, grooved plates under the rails, locking members consisting

of base portions and upwardly extending heads, said heads engaging the notches and the base portions engaging



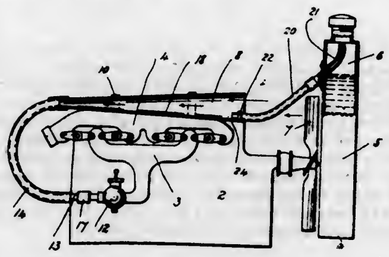
the grooves in the plate and means for locking the members in locking position.

1,384,701. SHOVEL-TOOTH. WILLIAM F. MCMONEGAL, Hazleton, Pa. Filed Nov. 4, 1918. Serial No. 261,142. 1 Claim. (Cl. 37—56.)



In a device of the class described, a shank portion provided with an enlarged head constituting a solid body to be interposed between the edge of the shovel and a tooth, the shank including a wedge-shaped projecting element, said head also having projecting elements extending transversely thereof at the base of the wedge and spaced from the tapered walls of the wedge, and a detachable and reversible tooth having a recessed portion therein and having projecting elements diverging with reference to each other and located on opposite sides of the recess, the ends of the projecting elements being chamfered, and the chamfered portions coöperating with the projecting elements at the base of the wedge and shank portions, the wedge shaped element of the shank and the projecting elements of the tooth constituting an interlocking joint beyond the aforesaid solid body of the head.

1,384,702. AIR-MOISTENER. JOSEPH FRANCIS MALONEY, Cleveland, Ohio. Filed Sept. 11, 1919. Serial No. 323,059. 1 Claim. (Cl. 123—25.)

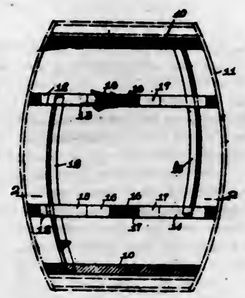


The combination, with an internal combustion engine provided with a fan, and a radiator arranged in front of the fan; of a tubular funnel adapted to receive a blast of air from the fan, said funnel having its lower side inclined downwardly and forwardly and provided with an inlet for hot air arising from the engine, a pipe for vapor communicating with the vapor space of the radiator, a fastening device securing the open rear end of the vapor pipe to the lower inclined side of the funnel at its front end so that condensed vapor may drip from the front end of the funnel, and a delivery pipe for moistened and heated air secured to the rear end of the funnel in line with its axis and operatively connected with the fuel intake of the engine.

1,384,703. LUBRICATING-OIL. JOSEPH FRANCIS MALONEY, Cleveland, Ohio. Filed Apr. 26, 1920. Serial No. 376,617. 1 Claim. (Cl. 87—9.)

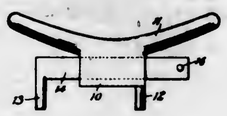
A lubricant, comprising the following ingredients mixed together in substantially the following proportions: 50 gallons of paraffin lubricating oil, 15 pounds of lubricating graphite, 1½ gallons of ether, 30 gallons of acetone, 5 gallons of turpentine, 15 gallons of kerosene, and 50 gallons of creosote.

1,384,704. BARREL-PROTECTOR. WILLIAM FRANCIS MEEK, Tampico, Mexico. Filed Oct. 19, 1920. Serial No. 417,949. 8 Claims. (Cl. 217—77.)



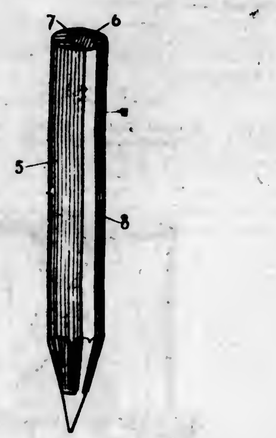
1. A protector for receptacles, adapted to be arranged within and extending throughout the entire length of the same, including in combination a pair of body bracing portions adapted to contact with the inner face of the receptacle, each of said bracing portions including a plurality of body portions, each comprising substantially one fourth of a complete circle, and means for connecting said bracing members one to the other.

1,384,705. DECK-PLATE KEY. WILLIAM MEYER, Jamestown, R. I. Filed Aug. 9, 1920. Serial No. 402,141. 1 Claim. (Cl. 81—90.)



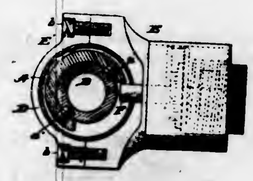
As a new article of manufacture, a key of the class described including a body having an opening extending therethrough horizontally from end to end, said body having at the top thereof opposite arms projecting from the ends thereof to constitute handle means for the bodily turning of the key, the body at the under side having a depending pin adjacent to one end, and a slide bar movable in said opening of the body and projecting beyond both ends of the latter, that end of the slide bar opposite to that end of the body having the pin presenting a depending pin, and means at the opposite end of said slide bar to prevent complete withdrawal of said bar from said body.

1,384,706. PENCIL. WALTER MEYNER, New York, N. Y. Filed June 5, 1920. Serial No. 386,858. 3 Claims. (Cl. 120—88.)



1. A self-luminous writing implement comprising a supporting body having a bore open at one side thereof and a core of self-luminous writing medium in said bore and exposed at the opening in the side of the supporting body.

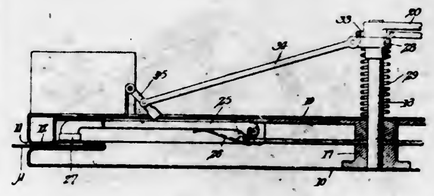
1,384,707. STEERING-POST-LOCKING MEANS. ARTHUR E. MILLER, Sacramento, Calif. Filed Sept. 4, 1919, Serial No. 321,710. Renewed Dec. 21, 1920. Serial No. 432,305. 5 Claims. (Cl. 70—90.)



2. In combination with the steering post of an automobile an apertured housing therefor and a lock having a bolt, a locking sleeve in the form of an incomplete circle adapted to be inserted through the aperture of said housing and having sufficient space between its ends to permit the sleeve to be laterally forced over and onto said post without removal of the post, said space being provided for the reception of the bolt of said lock.

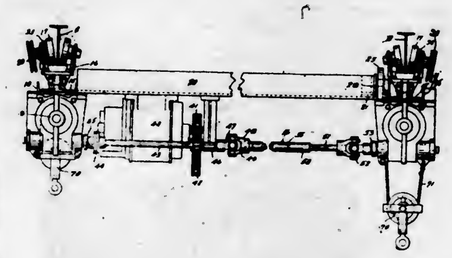
1,384,708. CHECK-PRINTING MACHINE. FRANK MONTROSS, Cleveland, Ohio. Filed Mar. 15, 1921. Serial No. 452,469. 2 Claims. (Cl. 101—94.)

1. A device of the character described comprising a supporting casing formed with slots, the check to be printed being insertible through said slots, a printing medium passing through said slots above the check, a disk rotatable with respect to the support and having an operating handle, a plurality of radially extending pivoted type bars carried by the disk and adapted to be brought



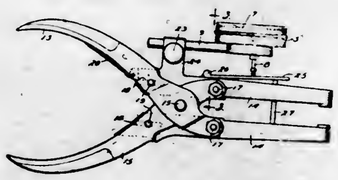
selectively over the proper location upon a check, and a lever operated means for forcing a selected type bar downwardly into engagement with the printing medium.

1,384,709. TROLLEY HOISTING MECHANISM. EDWARD Y. MOORE, Cleveland, Ohio. Filed Jan. 29, 1919. Serial No. 273,753. 41 Claims. (Cl. 212—133.)



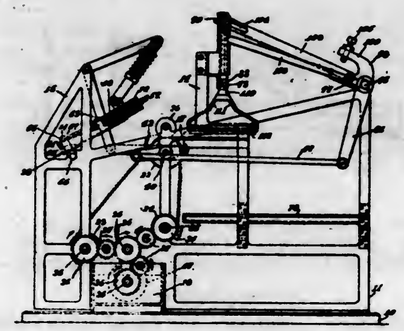
1. The combination of two trolley hoisting mechanisms having individual means for independently shifting them, and power mechanism common to both hoisting mechanisms and coupled therewith.

1,384,710. SHEET-COUNTER. ELGIN MORELL, New York, N. Y. Filed Dec. 11, 1919. Serial No. 343,990. 6 Claims. (Cl. 33—148.)



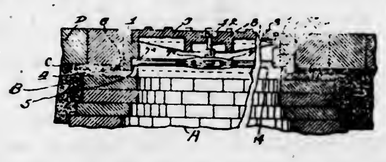
1. A sheet counter comprising a pair of relatively movable jaws, one of said jaws having an opening therethrough, a thrust pin fixed on the other jaw and operable through said opening upon movement of the jaws, an actuator plate pivoted on the first mentioned jaw and adapted to co-act with the thrust pin, a dial counter mounted on the first-mentioned jaw, and means carried by the dial counter adapted to co-act with the actuator plate for registering the relative separation of said jaws.

1,384,711. LABELING-MACHINE. ADOLF POLLATSEK, Brooklyn, N. Y. Filed Mar. 4, 1920. Serial No. 363,315. 26 Claims. (Cl. 216—54.)



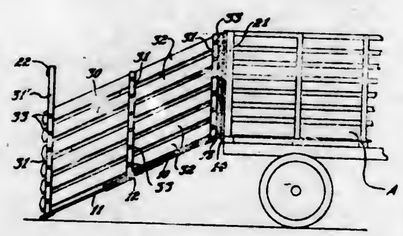
15. In combination, in a labeling machine of the character described, a paste applying belt having sprocket chains attached thereto; and sprocket means for engaging said chains for moving the belt.

1,384,712. MANHOLE. FRANCIS SHANLEY, Chicago, Ill. Filed Sept. 22, 1919. Serial No. 325,327. 20 Claims. (Cl. 94—35.)



17. In a device of the class described, a support, a cover, and a curb resting on said support and supporting said cover, said curb having a symmetrical T-shaped cross section with a vertically disposed outer periphery.

1,384,713. END-GATE AND CHUTE. JAMES CLAY STEPHENS, Bruceville, Ind. Filed Jan. 8, 1921. Serial No. 435,959. 6 Claims. (Cl. 296—61.)



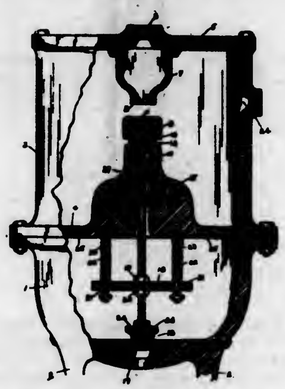
1. The combination with a vehicle body, of an end gate including two sections pivotally connected together and normally disposed parallel, one of said sections being hingedly mounted upon the wagon body, the other of said sections projecting below the hinge and having a slot, and a resilient latch projecting from the wagon and passed through said slot to hold said sections parallel.

1,384,714. VALVE-PACKING GREASE. EDWIN C. WEISSMANN, U. S. Army. Filed Jan. 10, 1919. Serial No. 270,569. 1 Claim. (Cl. 87—9.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)

A valve packing grease comprising in approximately the proportions following:

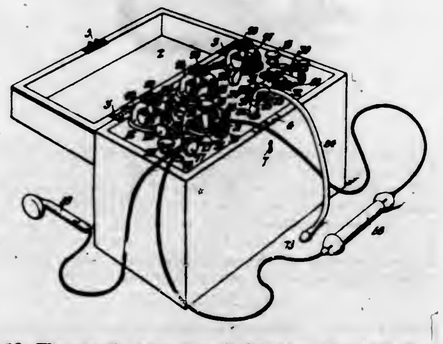
Tallow	25 lbs.
Soap	1 lb.
Beeswax	1 lb.
Neutral oil	1 gal.

1,384,715. STEAM-TRAP. HENRY WILLEMSTYN, Rochester, N. Y. Filed Sept. 23, 1920. Serial No. 412,329. 3 Claims. (Cl. 137—103.)



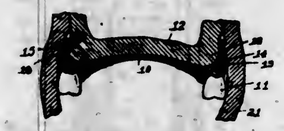
1. In a steam trap, the combinaton of a hollow base, a cylinder mounted on top of said base, an inlet and an outlet provided in said cylinder, a float valve mounted in said cylinder below said inlet, a valve stem operated by said float valve, a valve head carried on the end of said valve stem, a partition between said cylinder and said hollow base, said valve stem passing through said partition to operate said valve head in said hollow base.

1,384,716. ELECTRIC THERAPEUTIC APPARATUS. LOUIS FRANCIS BOGIA, Philadelphia, Pa. Filed July 15, 1920. Serial No. 396,519. 17 Claims. (Cl. 174—177.)



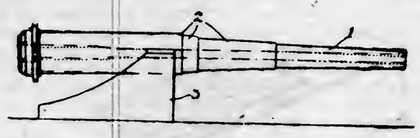
13. Therapeutic apparatus including a frame; a plurality of glass inclosures removably mounted on said frame; means arranged to produce an electric spark in one of said inclosures; means arranged to hold volatile material in another of said inclosures; an inhaler; and means arranged to direct air from said inclosures to said inhaler, including a mixing conduit common to a plurality of said inclosures.

1,384,717. FALSE-TEETH ATTACHMENT. BENJAMIN BLIEBERG, New York, and WILLIAM SHERFF, Brooklyn, N. Y. Filed Aug. 24, 1920. Serial No. 405,569. 2 Claims. (Cl. 32—4.)



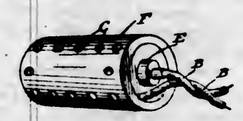
1. In a device of the character described, the combination with a dental plate, of means carried thereby for maintaining the plate in position in the mouth of the wearer, comprising elements hinged to the opposite sides of said plate and means for normally effecting the movement of said elements toward each other to cause the same to engage and grip the gums.

1,384,718. GUN-TUBE AND METHOD OF MANUFACTURING SAME. ALBERT E. GUY, U. S. Army. Filed Sept. 2, 1919. Serial No. 321,225. 4 Claims. (Cl. 29—1.11.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. The method of manufacturing a gun tube, consisting of forming a tube on a true line, springing a tube out of a true line and boring and rifling.

1,384,719. ELECTRIC WATER-HEATER. CLARENCE C. HERBERT, Lincoln, Nebr. Filed Aug. 8, 1919. Serial No. 316,277. 1 Claim. (Cl. 219—40.)



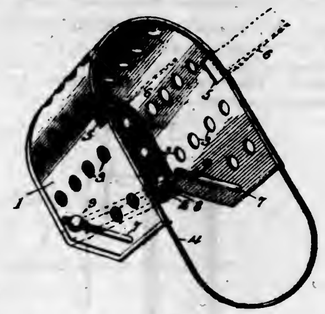
An electric heater comprising a shell of carbon and a rod of carbon of smaller diameter and inserted therein, and means for spacing the same apart from the shell, said spacing means including disks on the ends of the rod entirely inclosing the ends of the shell, and electrical wires connected to said rod and shell.

1,384,720. WAGON. WILLIAM L. JENNINGS, Girard, Tex. Filed Feb. 19, 1920. Serial No. 359,771. 1 Claim. (Cl. 56—100.)



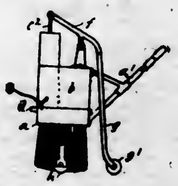
A wagon body having a bottom oppositely inclined from a longitudinal median line, diverging blades having their adjacent rearward ends substantially flush with the higher median portion of the bottom, and their forward ends depressed substantially flush with the lower extreme edges of the bottom, said bottom being provided with a slot registering with the interval between the blades.

1,384,721. WEANER. FRANK B. JOHNSON, Trinidad, Colo. Filed July 17, 1920. Serial No. 396,040. 4 Claims. (Cl. 119—131.)



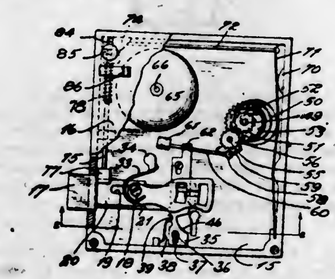
1. In a weaner, the combination of a muzzle encircling portion open at its extreme lower end, a bail encircling the upper end, a set of slots provided at an angle in the side walls of the portion, and a roller adapted to be retained in the slot by head portions and automatically move forward and backward in the slots.

1,384,722. AUTOMATIC SPRINKLER-BROOM. LEONARD KING, Luton, England. Filed Dec. 29, 1919. Serial No. 348,178. 1 Claim. (Cl. 15—51.)



A manually operated broom means provided on the broom for carrying water, a force pump carried by the broom, a pivoted cranked operating lever for said pump with the lower end near the surface being cleaned, a contact roller carried by said lever near the lower part, a spray head at the front of the broom and means establishing communication between said head and the pump, and yielding supporting wheels at the ends of the broom, as herein described.

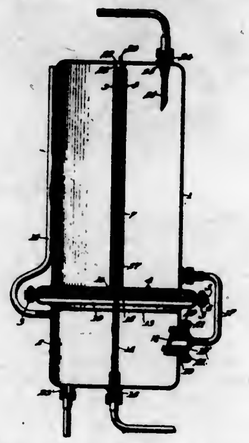
1,384,723. SAFETY-LOCK. WILLIAM KOZIOL, Easthampton, Mass. Filed Mar. 26, 1921. Serial No. 455,965. 2 Claims. (Cl. 116—8.)



1. A lock comprising a casing, a key actuated bolt slidable therein, a bell and spring actuated hammer therefor a detent for said hammer releasable by the lock key, and

means preventing the retraction of said bolt, said means becoming operative upon the slackening of the hammer actuating means.

1,384,724. VACUUM-REGULATOR MACHINE. LOUIS LE BRAS, New York, N. Y., assignor to Vaco Manufacturing Corporation, New York, N. Y., a Corporation of Delaware. Filed Feb. 21, 1920. Serial No. 360,335. 10 Claims. (Cl. 158—36.)



1. In a vacuum regulator machine, a vessel forming a vacuum chamber provided with a flexible diaphragm at or near one end of said chamber, means to connect said vacuum chamber with a source of liquid supply, means to connect said vacuum chamber with a source of suction, means to connect said vacuum chamber with the atmosphere, and means whereby the means providing the said source of suction and the said connection with the atmosphere are controlled by the action of said diaphragm under changing conditions in the vacuum chamber.

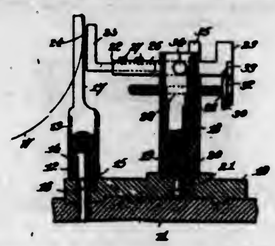
1,384,725. CONTAINER. JOSEPH LEVY, Brooklyn, N. Y. Filed Aug. 9, 1919. Serial No. 316,285. 2 Claims. (Cl. 65—13.)



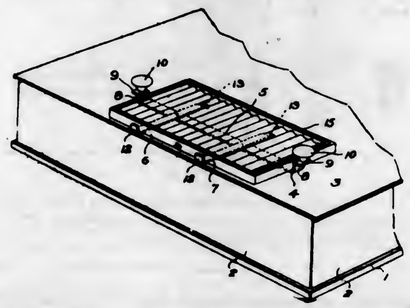
2. In a container, a blank for forming the sides thereof, said blank having parallel upper and lower edges and formed with similar bending sections at each end, a neck projecting from one of said sections, and an enlargement projecting from said neck, the edge of the enlargement adjacent said neck being parallel with the edge of the last mentioned bending section.

1,384,726. GRINDING-FIXTURE. JOSEPH DUPLESSIE, Providence, R. I., assignor of one-half to George F. Rooke, Providence, R. I. Filed Nov. 15, 1919. Serial No. 338,161. 4 Claims. (Cl. 125—11.)

1. A grinding fixture embodying a diamond-tool, a pivot having one face thereof in alinement with the axial center of said pivot, means for effecting movement of said tool with relation to said face, and means permitting the accurate determination of the distance of movement of said tool for the accurate setting of said tool, the last mentioned means including relatively separable measuring lugs.

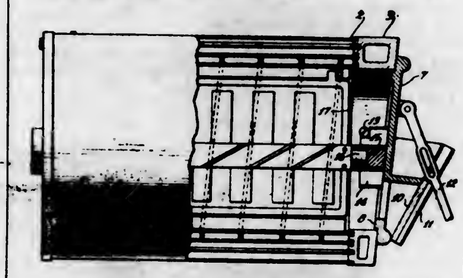


1,384,727. DISPLAY DEVICE. THOMAS C. HUTCHESON, Newton, Mass., assignor to United Drug Company, Boston, Mass., a Corporation. Filed Oct. 28, 1920. Serial No. 420,109. 6 Claims. (Cl. 248—39.)



1. In a display device of the nature described, in combination, a frame having vacuum cups at opposite ends whereby it may be attached to a plane surface and having provision for forming with said plane surface a drawerway to slidably receive a display tray.

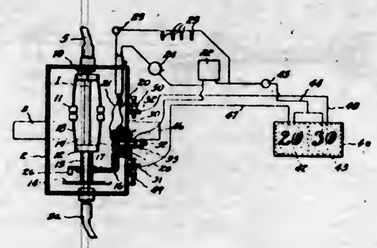
1,384,728. HORIZONTAL ICE-CREAM FREEZER. EMERY THOMPSON, New Rochelle, N. Y. Filed Mar. 1, 1921. Serial No. 448,807. 6 Claims. (Cl. 259—100.)



1. In an ice cream freezer, a cylinder containing a spaddle with a front journal, a bracket supporting said front journal, a cover reinforcing the bracket and means for fixing the cover in place so that it will engage and reinforce the bracket and hold it steady when the journal is revolving.

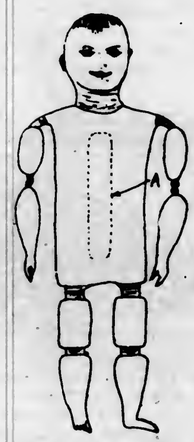
1,384,729. [WITHDRAWN.]

1,384,730. SPEED CONTROL FOR MOTOR-VEHICLES. EDGAR J. CRAWFORD, Seattle, Wash., assignor to J. Eugene Jordan, Seattle, Wash. Filed Feb. 16, 1920. Serial No. 358,914. 2 Claims. (Cl. 175—355.)



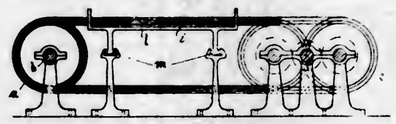
1. A speed controlling device for motor vehicles, comprising in combination, an electric circuit adapted to produce an electric spark in the engine cylinders, a governor housing, a governor shaft mounted within the housing and operatively connected with a wheel of the vehicle, a governor on said shaft, a disk slidable on the shaft to be raised and lowered in accordance with the speed of the governor, a block mounted on the housing and adjustable in the longitudinal direction of the shaft, a pair of contact plates mounted on the block through which the electric circuit to the engine is maintained and which normally engage each other at their outer ends, one of said plates being yieldable and having a contact block thereon engageable by said disk to break connection between the plates at certain predetermined speeds of the governor according to the adjustment of the block, a series of electric lights mounted on the vehicle, a series of individual speed indicating numerals for said lights, a series of contact points on the housing having electric connection with corresponding lights, a binding post in the block having electric connection through a source of electricity with all of said lights and a contact member electrically connected with the binding post engageable individually with said contact points to close an electric circuit through the lights to indicate the speed at which the governor will open the circuit through the engine.

1,384,731. DOLL. LAURA W. RICHARDS, Pawtucket, R. I. Filed July 17, 1918. Serial No. 245,433. 3 Claims. (Cl. 35—16.)



1. In a manikin for training nurses in the handling of a living child, a body portion formed of flexibly connected sections and a weight permanently positioned in said body portion at a point approximately the center of gravity of a human infant, whereby the manikin when placed in a bath will have portions thereof affected by gravity similar to a living human infant.

1,384,732. MACHINE FOR CUTTING BACON AND THE LIKE INTO THIN SLICES. FRIEDRICH SCHERMER, Mainz, Germany. Filed July 8, 1920. Serial No. 395,939. 1 Claim. (Cl. 17—24.)



A machine for cutting bacon and the like into thin slices, comprising in combination, a shaft on one side of the machine, a plurality of step-pulleys loosely mounted on said shaft, two shafts on the other side of the machine, a plurality of step-pulleys corresponding to the former and mounted alternately on said two shafts, a toothed wheel on each of said two shafts, a common driving-spur-wheel in gear with said toothed wheels, steel-ribbons forming cutting-blades guided over said step-pulleys and thus alternately movable in opposite directions, a table having lateral recesses with which it is mounted over said steel-ribbons and movable in transverse direction to the latter, and dovetail guides for the reception of said table, substantially as and for the purpose set forth.

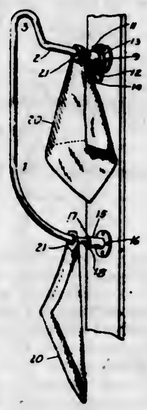
1,384,733. TWIST-DRILL. NORMAN E. WOODS, Paterson, N. J. Filed Sept. 30, 1919. Serial No. 327,541. 7 Claims. (Cl. 77—70.)



2. A twist drill having cutting blades provided with cutting lips, each divided by a groove into a plurality of longitudinally alined cutting edges of varying length one with respect to the other, each groove being of semi-elliptical form and deepest at its side farthest from the longitudinal center of the drill and shallowest at its side nearest the center of the drill, the outer edge wall of the groove overhanging and forming at its point of juncture with the outer cutting edge a cutting point.

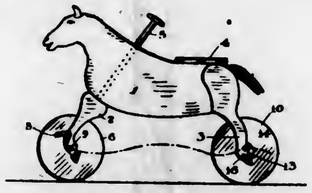
REISSUES.

15,147. TOWEL-RACK. EDWIN T. BRIGHAM, Kansas City, Mo., assignor to Jacques Rousso, Los Angeles, Calif. Filed Mar. 17, 1921. Serial No. 453,150. Original No. 1,371,295, dated Mar. 15, 1921, Serial No. 669,502, filed Jan. 4, 1912. 14 Claims. (Cl. 45—32.)



7. A towel rack comprising a support; a towel guide member extending outwardly from said support; and towel retaining means mounted on said outwardly extending guide member and arranged to releasably retain towels thereon, said retaining means being arranged and adapted to permit the passage of perforated towel guiding means over and around it, substantially as described.

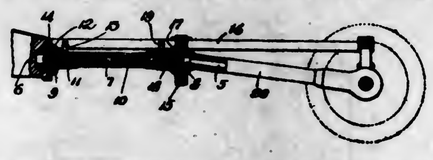
15,148. TOY. NORBERT CHAPDELAINE, Montreal, Quebec, Canada, assignor, by mesne assignments, to Allan Angus Magee, Montreal, Quebec, Canada. Filed Mar. 28, 1921. Serial No. 456,204. Original No. 1,335,425, dated Mar. 30, 1920, Serial No. 303,233, filed June 10, 1919. 4 Claims. (Cl. 208—42.)



1. In a toy, a body having legs extending frontwardly and rearwardly therefrom, a wheel journaled centrally in relation to its tread between the front legs and forming a pivot for said body and also a steering member, foot rests projecting from and rigid with said front legs, a rear wheel journaled eccentrically in relation to its tread between said rear legs and forming the propulsion member and a seat situated in a forward position in relation to said rear wheel.

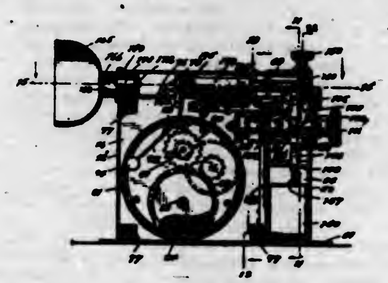
15,149. MOTOR-VEHICLE EXTENSION DRIVE-SHAFT. GUY S. DAVISON, Holderness, N. H., assignor, by mesne assignments, to The Longford Company of America, Cambridge, Mass., a Corporation of Maine. Filed May 4, 1916. Serial No. 95,477. Original No. 1,163,643, dated Dec. 14, 1915, Serial No. 21,299, filed Apr. 14, 1915. 6 Claims. (Cl. 180—1.)

1. The combination, with the transmission and drive shafts of a motor vehicle, of mechanism adapted to lengthen the wheel base of said vehicle, comprising means to extend the rear wheels, supporting axle, and transmission shaft operatively connected therewith, from the motor drive shaft rearwardly, means carried by the side frames



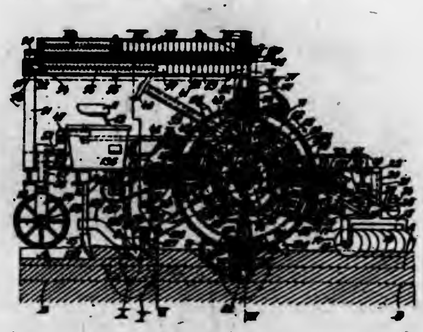
to support and maintain the transmission shaft at substantially the same angle with the rear axle, in said moved position, as in its former position, and means to connect the motor drive shaft with said transmission shaft in its new position.

15,150. ALARM-SIGNAL. VLADIMIR P. FEDOROFF, New York, N. Y. Filed Feb. 11, 1920. Serial No. 357,832. Original No. 1,256,542, dated Feb. 19, 1918, Serial No. 193,807, filed Sept. 20, 1917. 64 Claims. (Cl. 116—90.)



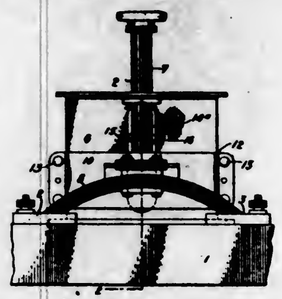
1. In a device of the class described, alarm mechanism, and means dependent upon change of its angular position relative to a vertical line for setting said mechanism into operation and adjustable to operative and inoperative condition at different angular positions of the mechanism relative to a vertical line.

15,151. PROCESS OF AND APPARATUS FOR SOIL TREATMENT. HERBERT KNIGHT, New York, N. Y. Filed Mar. 10, 1921. Serial No. 451,286. Original No. 1,359,177, dated Nov. 16, 1920, Serial No. 305,173, filed June 18, 1919. 15 Claims. (Cl. 111—91.)



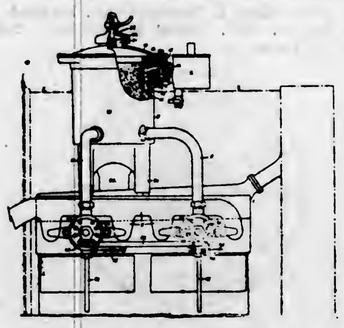
1. The process of soil treatment consisting in progressively inserting successive definite and regularly spaced gas expanding bodies beneath the soil surface during an uninterrupted traversing movement.

15,152. SWITCH MECHANISM. HUBERT F. KRANTZ, Brooklyn, N. Y., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 30, 1919. Serial No. 293,857. Original No. 1,256,332, dated Feb. 12, 1918, Serial No. 836,423, filed May 5, 1914. 5 Claims. (Cl. 200—76.)



1. In a switch mechanism, comprising a quick-break means for moving the switch blade away from a contact member, said quick-break means including a spring exerting a tendency to urge the switch blade against the contact, and said spring being movable through a dead-center position for reversing its effectiveness upon the switch blade to thereby break the switch blade away from the contact, the combination therewith of a flexible switch blade which is connected between the spring and the contact to receive pressure from the spring, and an operating member operable upon the spring to increase the pressure of the spring against the switch blade and thereby to flex the switch blade between the spring and the contact, said operating member being also adapted to move the spring through its dead-center position to relieve the pressure of the spring upon the switch blade and thereby to enable the stored energy in the switch blade to cause the switch blade to move in a direction away from the contact and thus to act as an auxiliary to the breaking action of the spring.

15,153. APPARATUS FOR VAPORIZING HYDROCARBONS. PERCY OCTAVIUS ROWLANDS, Liverpool, England. Filed May 28, 1919. Serial No. 300,447. Original No. 1,252,955, dated Jan. 8, 1918, Serial No. 158,947, filed Mar. 31, 1917. 15 Claims. (Cl. 48—102.)



1. In combination, a power driven body, an internal combustion engine mounted on said body, a container adapted to hold and burn solid fuel; a conduit or chamber heated by and surrounding said container, said conduit or chamber adapted to have introduced into it hydro-carbon liquid fuel and to vaporize said liquid fuel by heat of combustion of said solid fuel; and a conduit connecting said vaporizing conduit or chamber with the cylinder of the engine; substantially as set forth.

13. A liquid fuel boiling or evaporating apparatus for internal combustion engines comprising a metal vessel adapted to receive internally solid fuel to burn same therein, an inclined conduit on the outside of said vessel and heated by the heat of the combustion of the solid fuel in the vessel, a duct on the outside of the vessel adapted to deliver liquid fuel on to the upper surface of the upper part of the inclined conduit, and means for supplying a fluid to the vaporized fluid conduit at a point removed from the point of introduction of the fuel to the surface of the conduit, whereby the liquid fuel delivery on to the actual upper surface of the conduit is not interfered with by the previously delivered fuel.

14. A liquid fuel boiling or evaporating apparatus for internal combustion engines comprising a metal cylinder or wall adapted to receive internally solid fuel and to burn same therein, an inclined conduit on the outside of said vessel, heated by the heat of the combustion of the solid fuel in the vessel, a duct on the outside of the vessel adapted to deliver liquid fuel on to the upper surface of the upper part of the inclined conduit, and means for supplying liquid fuel to the vaporized fluid conduit at a point removed from the point of introduction of the fuel to the surface of the conduit and a discharge conduit for mixed fluid and fuel vapor at the lower part of the inclined conduit downward toward which both the fluid and the vapor flow.

15. In combination, an internal combustion engine, a liquid fuel feeding device, an oil vaporizing apparatus below said device having a vaporizing conduit adapted to be heated, said conduit being adapted to receive hydro-carbon liquid fuel from the feeding device and to permit the flow of said fuel in said conduit by gravity, a conduit extending between the vaporizing conduit and the engine cylinder, a controlling device in said conduit, whereby the degree of vacuum within the vaporizing conduit as produced by the suction of the engine is controlled, the vacuum thus produced acting upon the liquid fuel in the feeding device, whereby the quantity of fuel passing from the feed device into the vaporizing conduit is directly proportional to the degree of vacuum produced by the engine between the controlling device and the vaporizing conduit.

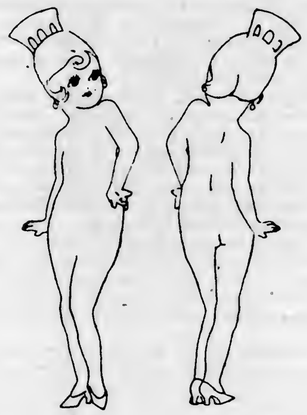
DESIGNS.

58,297. DRESSED DOLL. ESTELLE VALRIE ALLISON, New York, N. Y. Filed Jan. 26, 1920. Serial No. 354,257. Term of patent 7 years.



The ornamental design for a dressed doll as shown.

58,298. DOLL. ESTELLE VALRIE ALLISON, New York, N. Y. Filed Jan. 26, 1920. Serial No. 354,258. Term of patent 7 years.



The ornamental design for a doll as shown.

58,299. DOLL. ESTELLE VALRIE ALLISON, New York, N. Y. Filed Jan. 26, 1920. Serial No. 354,259. Term of patent 7 years.



The ornamental design for a doll as shown.

58,300. DOLL. ESTELLE VALRIE ALLISON, New York, N. Y. Filed Jan. 26, 1920. Serial No. 354,260. Term of patent 7 years.



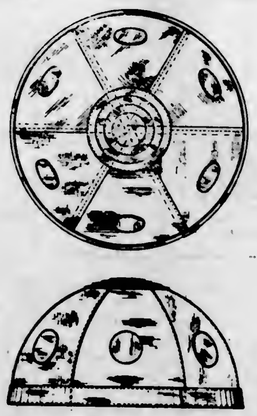
The ornamental design for a doll as shown.

58,301. SUPPLEMENTARY WAIST FOR MEN'S OVERCOATS. LORISTON F. AMSDEN, Baltimore, Md., assignor of one-half to Harold C. Mitchell, New York, N. Y. Filed Jan. 15, 1920. Serial No. 351,623. Term of patent 14 years.



The ornamental design for a supplementary waist for men's overcoats, as shown.

58,302. CAP. KATE L. BARTHOLOMEW, Portland, Oreg. Filed Sept. 4, 1919. Serial No. 321,723. Term of patent 3½ years.



The ornamental design for a cap, as shown.

58,303. CAP. KATE L. BARTHOLOMEW, Portland, Oreg. Filed Apr. 29, 1920. Serial No. 377,717. Term of patent 3½ years.



The ornamental design for a cap as shown.

58,304. MASONIC PENDANT. BEATRICE ELIZABETH MARIA BARTON, Birmingham, England. Filed Jan. 13, 1921. Serial No. 437,102. Term of patent 3½ years.



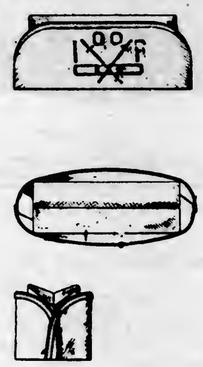
The ornamental design for a Masonic pendant, as shown.

58,305. SETTING FOR PRECIOUS STONES. HYMAN BRESLAVSKY, New York, N. Y. Filed July 1, 1920. Serial No. 393,442. Term of patent 3½ years.



The ornamental design for a setting for precious stones substantially as shown.

58,306. CAP. WILLIAM I. CRUM, Wichita, Kans. Filed Dec. 30, 1920. Serial No. 434,161. Term of patent 14 years.



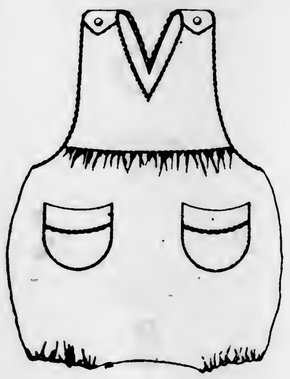
The ornamental design for a cap, as shown.

58,307. DIAMOND-SETTING. JOSEPH DAVIDSON, Rockaway Beach, N. Y., assignor to Fanny Davidson, Rockaway Beach, Long Island, N. Y. Filed Nov. 20, 1920. Serial No. 425,576. Term of patent 7 years.



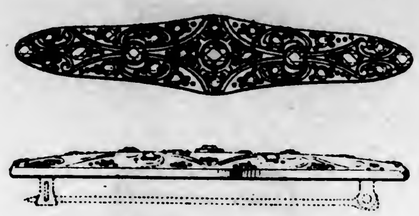
The ornamental design for a diamond setting as shown.

58,308. CHILD'S GARMENT. LOTTIE E. FREEMAN, Boston, Mass. Filed Aug. 23, 1920. Serial No. 405,521. Term of patent 3½ years.



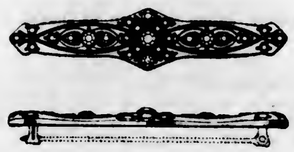
The ornamental design for a child's garment, as shown.

58,309. ARTICLE OF JEWELRY. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,181. Term of patent 7 years.



The ornamental design for an article of jewelry as shown.

58,310. ARTICLE OF JEWELRY. HENRY W. FISHEL, New York, N. Y. Filed Oct. 16, 1919. Serial No. 331,183. Term of patent 7 years.



The ornamental design for an article of jewelry as shown.

58,311. MILITARY-SERVICE BUTTON. JOHN H. GEARY, Chicago, Ill. Filed Nov. 27, 1918. Serial No. 264,456. Term of patent 7 years.



The ornamental design for a military service button, as shown.

58,312. FINGER-RING OR SIMILAR ARTICLE. MARTIN E. GOLLESCH, Plankington, S. D. Filed July 24, 1920. Serial No. 398,790. Term of patent 14 years.



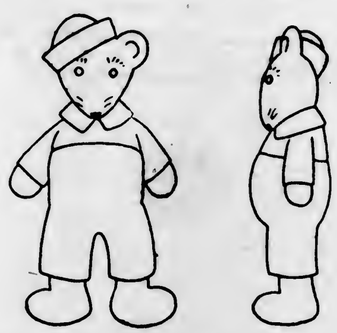
The ornamental design for a finger ring or similar article as shown.

58,313. GLOVE. BRAYTON C. GRINNELL, Seattle, Wash. Filed June 1, 1920. Serial No. 385,842. Term of patent 14 years.



The ornamental design for a glove as shown.

58,314. TOY ANIMAL. JOHN B. GRUELLE, Norwalk, Conn. Filed Mar. 16, 1920. Serial No. 366,427. Term of patent 14 years.



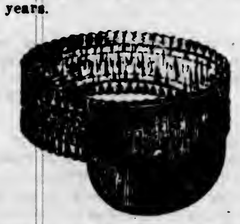
The ornamental design for a toy animal as shown.

58,315. DOLL. FRAN C. HAMILL, Los Angeles, Calif. Filed Dec. 22, 1920. Serial No. 432,628. Term of patent 7 years.



The ornamental design for a doll, as shown.

58,316. COMBINED GARTER AND POWDER-PUFF RECEPTACLE. ADELAIDE HEALD, Washington, D. C. Filed Feb. 21, 1917. Serial No. 150,285. Term of patent 7 years.



The ornamental design for a combined garter and powder-puff receptacle as shown and described.

58,317. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,868. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,318. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,869. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,319. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,870. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,320. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,871. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,321. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,872. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,322. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,873. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,323. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,874. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,324. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,875. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,325. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 23, 1920. Serial No. 432,876. Term of patent 14 years.



The ornamental design for a precious, or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,326. PRECIOUS, OR SEMIPRECIOUS, OR SYNTHETIC STONE, OR AN IMITATION THEREOF, OR AN ARTICLE OF SIMILAR NATURE. SAMUEL HELLER, New York, N. Y., assignor to L. Heller & Son, Inc., New York, N. Y., a Corporation of New York. Filed Dec. 27, 1920. Serial No. 433,515. Term of patent 14 years.



The ornamental design for a precious or semiprecious, or synthetic stone, or an imitation thereof, or an article of similar nature, as shown.

58,327. WATCH-FOB. CHARLES W. HERRIN, Burkburnett, Tex. Filed Dec. 22, 1920. Serial No. 432,629. Term of patent 7 years.



The ornamental design for a watch fob, as shown.

58,328. SURFACE ORNAMENTATION FOR AN ARTICLE OF MANUFACTURE. BERNARD HOLS, Cleveland, Ohio, assignor to The Frankelite Co., Cleveland, Ohio, a Corporation of Ohio. Filed May 9, 1921. Serial No. 468,165. Term of patent 7 years.



The ornamental design for surface ornamentation for an article of manufacture as shown and described.

58,329. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,742. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,330. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,743. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,331. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,744. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,332. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,745. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,333. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,746. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,334. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,747. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,335. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,749. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,336. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,752. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,337. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,446. Term of patent 7 years.



The ornamental design for a talcum powder box, as shown.

58,338. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,448. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,339. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,450. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,340. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,451. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,341. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,453. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,342. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,455. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,343. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,456. Term of patent 7 years.



The ornamental design for a talcum powder box, as shown.

58,344. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,458. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,345. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,461. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,346. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,465. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,347. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,471. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,348. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,472. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,349. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,473. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,350. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,475. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,351. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,476. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,352. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,477. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,353. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,479. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,354. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,480. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,355. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,481. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,356. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,482. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,357. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,483. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,358. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,484. Term of patent 7 years.



The ornamental design for a talcum powder box, as shown.

58,359. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,485. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,360. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,488. Term of patent 14 years.



The ornamental design for a talcum powder box as shown.

58,361. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,490. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,362. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,491. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,363. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,492. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,364. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,494. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,365. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,496. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,366. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,498. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,367. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,501. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,368. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,506. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,369. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,509. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,370. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,512. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,371. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,514. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,372. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,516. Term of patent 7 years.



The ornamental design for a talcum powder box, as shown.

58,373. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,525. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,374. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,526. Term of patent 7 years.



The ornamental design for a talcum powder box, as shown.

58,375. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,529. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,376. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,530. Term of patent 7 years.



The ornamental design for a talcum powder box, as shown.

58,377. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920 Serial No. 430,531. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,378. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,532. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,379. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,534. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,380. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,539. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,381. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,540. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,382. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,541. Term of patent 7 years.



The ornamental design for a talcum powder box, as shown.

58,383. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,542. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,384. CAP. ANNA SHERIDAN JEFFRIES, Clearmont, Wyo. Filed Dec. 2, 1920. Serial No. 427,922. Term of patent 3½ years.



The ornamental design for a cap as shown.

58,385. DOLL. FRANCES JOHNSON, Chicago, Ill. Filed Dec. 6, 1920. Serial No. 428,825. Term of patent 7 years.



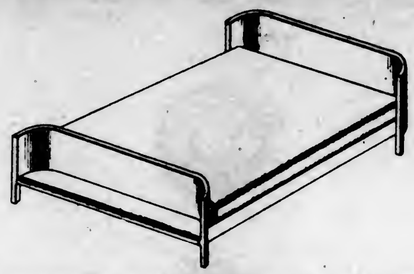
The ornamental design for a doll as shown.

58,386. RING, BROOCH, OR PIN. PERRY B. JOHNSTON, Duncan, Okla. Filed Oct. 25, 1920. Serial No. 419,520. Term of patent 7 years.



The ornamental design for a ring, brooch, or pin, as shown.

58,387. COMBINED BED AND SETTEE. ANNIE I. JOYNES, Savannah, Ga. Filed Dec. 9, 1920. Serial No. 429,596. Term of patent 14 years.



The ornamental design for a combined bed and settee, as shown.

58,388. DOLL. HAZEL KELLEY, San Jose, Calif. Filed Dec. 24, 1920. Serial No. 433,079. Term of patent 14 years.



The ornamental design for a doll, as shown.

58,389. PUGILIST DOLL. THEODORE N. LE CLAIRE, St. Paul, Minn. Filed Sept. 4, 1920. Serial No. 408,368. Term of patent 14 years.



The ornamental design for a pugilist doll, as shown and described.

58,390. DOLL. ALBERT LUSTIG, San Francisco, Calif. Filed Jan. 17, 1921. Serial No. 438,036. Term of patent 7 years.



The ornamental design for a doll as shown.

58,391. DOLL. EDUARDO MALAVARCA, Newark, N. J. Filed Mar. 29, 1920. Serial No. 369,751. Term of patent 7 years.



The ornamental design for a doll, as shown.

58,392. DOLL. EDUARDO MALAVARCA, Newark, N. J. Filed Mar. 29, 1920. Serial No. 369,752. Term of patent 7 years.



The ornamental design for a doll, as shown.

58,393. PENNANT. CHARLES W. MARKS, Tracy, Minn. Filed June 16, 1920. Serial No. 380,493. Term of patent 7 years.



The ornamental design for a pennant as shown.

58,394. ELECTRIC-LIGHT STAND. VERNICE MEYERS, Three Oaks, Mich. Filed Dec. 2, 1920. Serial No. 427,913. Term of patent 14 years.



The ornamental design for an electric light stand, as shown.

58,395. FLAG, PENNANT, EMBLEM, OR ARTICLE OF A SIMILAR NATURE. CLARK NETTLETON, Seattle, Wash. Filed Jan. 3, 1919. Serial No. 269,535. Term of patent 3½ years.



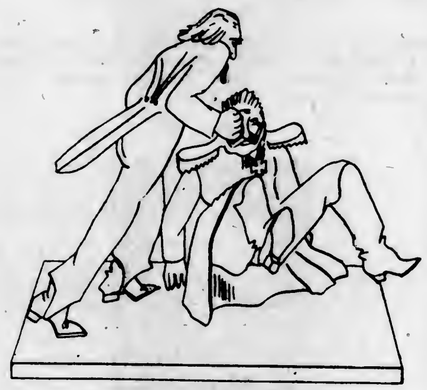
The ornamental design for a flag, pennant, emblem, or article of a similar nature, as shown.

58,396. STATUETTE. JUAN OLAGUIBEL, Mexico, Mexico. Filed May 19, 1920. Serial No. 382,603. Term of patent 7 years.



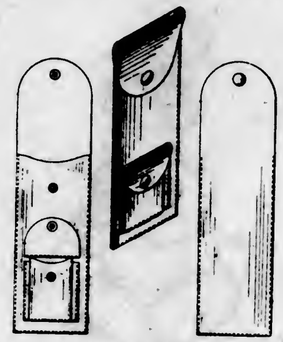
The ornamental design for a statuette, substantially as shown.

58,397. STATUETTE. SIDNEY H. PRAT and JOSEPH B. JOHNSTON, Kansas City, Mo. Filed Mar. 22, 1918. Serial No. 224,079. Term of patent 3½ years.



The ornamental design for a statuette as shown.

58,398. CASE FOR PENCILS. WILLIAM PRENKIN, New York, N. Y. Filed July 16, 1920. Serial No. 396,841. Term of patent 3½ years.



The ornamental design for a case for pencils, as shown.

58,399. VEST. ARTHUR M. QUA, Grand Rapids, Mich. Filed Apr. 1, 1919. Serial No. 286,750. Term of patent 3½ years.



The ornamental design for a vest, substantially as shown.

58,400. RING. ROBERT E. RHOADES, Chicago, Ill. Filed Nov. 13, 1920. Serial No. 423,992. Term of patent 7 years.



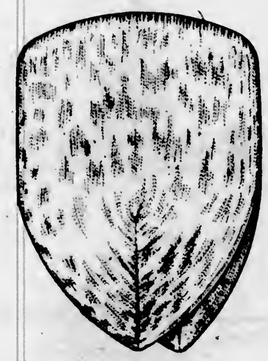
The ornamental design for a ring, as shown.

58,401. RING OR LIKE ARTICLE. MEYER L. ROBBINS, New York, N. Y., assignor to Untermeyer, Robbins & Co., New York, N. Y., a Corporation of New York. Filed Sept. 28, 1920. Serial No. 413,408. Term of patent 3½ years.



The ornamental design for a ring or like article, as shown and described.

58,402. KNITTED CAP. SAMUEL ROSENBERG, Milwaukee, Wis., assignor to Reliable Knitting Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 21, 1920. Serial No. 405,205. Term of patent 7 years.



The ornamental design for a knitted cap, as shown.

58,403. WORK-GARMENT. CARRIE R. SCHMICK, Rocky River, Ohio. Filed Sept. 25, 1918. Serial No. 255,728. Term of patent 3½ years.



The ornamental design for a work garment as shown.

58,404. DOLL. EULALIA M. SHAW, Los Angeles, Calif. Filed Dec. 13, 1920. Serial No. 430,576. Term of patent 7 years.



The ornamental design for a doll as shown.

58,405. UNDERGARMENT OR ARTICLE OF SIMILAR NATURE. WALTER L. SIEWERS, Winston-Salem, N. C., assignor to The Indera Mills, Winston-Salem, N. C., a Copartnership consisting of W. L. Siewers and F. H. Fries. Filed Mar. 15, 1920. Serial No. 366,183. Term of patent 7 years.



The ornamental design for an undergarment or article of similar nature as shown.

58,406. SCARF. FRANKLIN SIMON, New York, N. Y. Filed June 2, 1920. Serial No. 386,078. Term of patent 7 years.



The ornamental design for a scarf, substantially as shown.

58,407. STANDARD FOR A LIGHTING-FIXTURE. GEORGE V. STRAHAN, Newark, N. J., and FREDERICK W. MATHIEU, New York, N. Y., assignors to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 9, 1920. Serial No. 429,597. Term of patent 7 years.



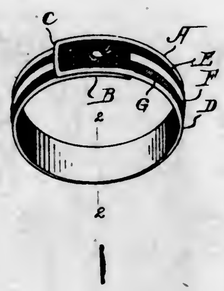
The ornamental design for a standard for a lighting fixture, as shown.

58,408. STANDARD FOR A LIGHTING-FIXTURE. GEORGE V. STRAHAN, Newark, N. J., and FREDERICK W. MATHIEU, New York, N. Y., assignors to Mitchell Vance Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 9, 1920. Serial No. 429,598. Term of patent 7 years.



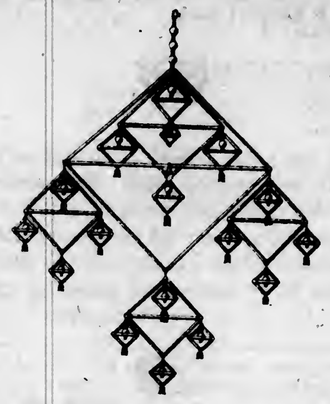
The ornamental design for a standard for a lighting fixture, as shown.

58,409. BRACELET, NAPKIN-RING, OR ARTICLE OF A SIMILAR NATURE. RUDOLPH STURM, St. Paul, Minn. Filed Oct. 7, 1918. Serial No. 257,269. Term of patent 7 years.



The ornamental design for a bracelet, napkin ring, or article of a similar nature, as shown and described.

58,410. LAVALLIÈRE. STANISLAW SZIMANSKI, Newark, N. J. Filed Jan. 6, 1921. Serial No. 435,518. Term of patent 3½ years.



The ornamental design for a lavallière, as shown.

58,411. BATHING-SUIT. WALLACE B. TYRRELL, Delavan, Wis., assignor to Bradley Knitting Company, Delavan, Wis., a Corporation of Wisconsin. Filed Nov. 3, 1919. Serial No. 335,558. Term of patent 3½ years.



The ornamental design for a bathing suit, as shown.

58,412. LAMP. LUCY GRANT UNMACK, Los Angeles, Calif. Filed Oct. 19, 1920. Serial No. 418,112. Term of patent 7 years.



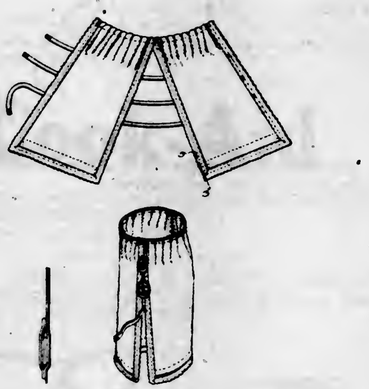
The ornamental design for a lamp substantially as shown and described.

58,413. TOY RABBIT KNOWN AS PETER BUNNY. MABEL WATERMAN, New Rochelle, N. Y. Filed Feb. 19, 1920. Serial No. 359,938. Term of patent 14 years.



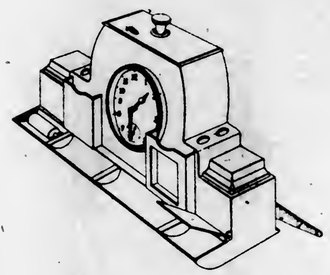
The ornamental design for a toy rabbit known as Peter Bunny as shown.

58,414. PETTICOAT. MARY A. WILLIAMS, New York, N. Y. Filed Mar. 15, 1920. Serial No. 366,111. Term of patent 14 years.



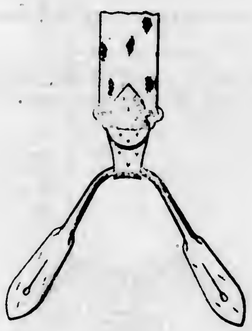
The ornamental design for a petticoat, as shown.

58,415. UTILITY-STAND FOR DESKS. HARRY ZAMSKY and SOL LEVY, New York, N. Y. Filed Dec. 14, 1920. Serial No. 430,759. Term of patent 3½ years.



The ornamental design for a utility stand for desks as shown.

58,416. GARMENT-SUPPORTER. ALFRED M. ZIEGLER, Newton, MASS. Filed Nov. 15, 1920. Serial No. 424,305. Term of patent 7 years.



The ornamental design for a garment supporter, substantially as shown and described.

58,417. CAP FOR A TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 23, 1920. Serial No. 412,365. Term of patent 14 years.



The ornamental design for a cap for a talcum powder box, as shown.

58,418. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 23, 1920. Serial No. 412,367. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 12, 1921.

[PUBLISHED JULY 25, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 103,893. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KINNEY BROTHERS, Binghamton, N. Y. Filed May 17, 1917.



The border being printed in green and the stars in the corners being printed in red.

Particular description of goods.—Oleomargarin.

Claims use since Sept. 1, 1916.

Ser. No. 109,071. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE CELLULOID COMPANY, New York, N. Y. Filed Feb. 18, 1918.

VERNALEUR

The word "Vernaleur."

Particular description of goods.—Toothbrushes, Hair-Brushes, Military Brushes, Cloth-Brushes, Whisk-Brooms, Lather-Brushes, Paint-Brushes, Hat-Brushes, Nail-Brushes, Flesh-Brushes.

Claims use since Jan. 5, 1918.

Ser. No. 109,093. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE CELLULOID COMPANY, New York, N. Y. Filed Feb. 18, 1918.

AMBERLEUR

The word "Amberleur."

Particular description of goods.—Toothbrushes, Hair-Brushes, Military Brushes, Cloth-Brushes, Whisk-Brooms, Lather-Brushes, Paint-Brushes, Hat-Brushes, Nail-Brushes, Flesh-Brushes.

Claims use since Jan. 5, 1918.

Ser. No. 111,482. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BERGHOFF BREWING ASS'N, Fort Wayne, Ind., assignor to Berghoff Products Company, a Corporation of Indiana. Filed June 11, 1918.

Bergo

Particular description of goods.—A Non-Alcoholic, Maltless, Cereal Beverage Sold as a Soft Drink.

Claims use since May, 1917.

Ser. No. 113,482. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. S. ZIEGLER COMPANY, (now by change of name Dwight B. McCurdy Company,) Chicago, Ill. Filed Sept. 28, 1918.

Cook-Aid

Particular description of goods.—An Egg Substitute in Cooking and Baking.

Claims use since Jan. 5, 1918.

Ser. No. 115,629. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PELGRAM & MEYER, New York, N. Y. Filed Feb. 4, 1919.

Pam

Particular description of goods.—Broad Silks, Satins, and Silk Crape in the Piece.

Claims use since March, 1912.

Ser. No. 117,202. (CLASS 15. OILS AND GREASES.) SEARS EQUIPMENT COMPANY, INC., Rome, N. Y. Filed Apr. 5, 1919.

SILVER SEAL MOTOR OIL

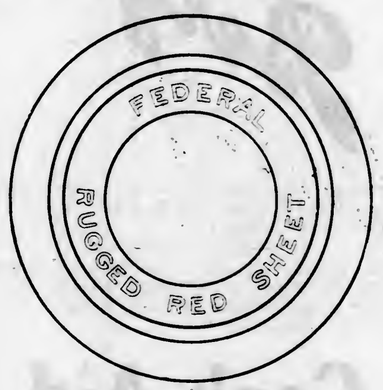


No claim is made to the representation of the seal or the words "Seal" and "Motor Oil" except as associated with the mark shown.

Particular description of goods.—Lubricating Oils and Greases.

Claims use since Dec. 1, 1915.

Ser. No. 119,064. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed May 31, 1919.



No claim is made to the words "Red Sheet" apart from the mark shown in the drawing.

Particular description of goods.—Packing Made Wholly or Partly of Rubber or of Composition Material.

Claims use since Apr. 19, 1919.

Ser. No. 119,411. (CLASS 19, VEHICLES, NOT INCLUDING ENGINES.) THE EQUIPMENT MANUFACTURING COMPANY, Cleveland, Ohio. Filed June 10, 1919.

SYSTE-MOVER

Particular description of goods.—Motor or Hand Floor-Trucks.

Claims use since Apr. 1, 1919.

Ser. No. 119,800. (CLASS 39. CLOTHING.) GOLDSTEIN, NEUMANN & CO., (now by change of name The Neumann Company, Inc.,) Chicago, Ill. Filed June 20, 1919.

Fashion Art Clothes

No claim is made to the exclusive right to the words "Fashion Art Clothes" apart from the remainder of the trade-mark shown in the drawing.

Particular description of goods.—Men's and Young Men's Suits and Overcoats.

Claims use since Jan. 22, 1919.

Ser. No. 122,808. (CLASS 17. TOBACCO PRODUCTS.) THE AMERICAN TOBACCO CO., New York, N. Y. Filed Sept. 18, 1919.

TOWN TALK

Particular description of goods.—Smoking and Chewing Tobacco.

Claims use since about 1888.

Ser. No. 123,452. (CLASS 37. PAPER AND STATIONERY.) JOHN PLUCKROSE, London, England. Filed Oct. 4, 1919.



CRUSADER BRAND

No claim being made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Waxed Stencil-Sheets for Use with Duplicating Apparatus, Apparatus for Producing Duplicated Copies of Handwriting, Typewriting, Drawings, &c., by Means of Wax Stencil-Sheets or by Gelatin, Clay, or other Similar Copying Compositions, and Copying Baths or Trays for Use When Soaking the Calico or other Absorbent Sheets Used in Press-Copying.

Claims use since June, 1906.

Ser. No. 123,874. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) COOLEY MFG. CO. INC., New York, N. Y. Filed Oct. 17, 1919.

KOOLEE

Particular description of goods.—Cartridge-Fuses, Fuse-Plugs, and Dynamo and Motor Brushes.

Claims use since the latter part of January, 1918.

Ser. No. 124,352. (CLASS 35, BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MAGIC AUTO DEVICES COMPANY INC., Lynbrook, N. Y. Filed Oct. 30, 1919.

2 IN 1

Particular description of goods.—Vulcanizing-Patches.

Claims use since Oct. 20, 1919.

Ser. No. 124,989. (CLASS 31. FILTERS AND REFRIGERATORS.) HAMMER-BRAY CO., Oakland, Calif. Filed Nov. 17, 1919.

SPARK

Particular description of goods.—Refrigerators Which are Cooled by the Evaporation of Water From a Surrounding Textile-Fabric Cover.

Claims use since March, 1912.

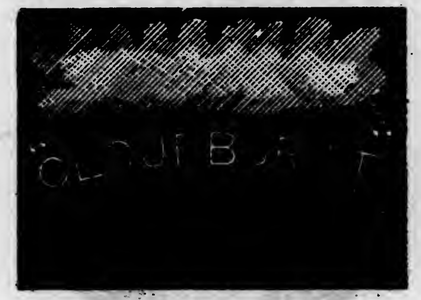
Ser. No. 125,364. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER COMIS, Chicago, Ill. Filed Nov. 28, 1919.

DELPHI

Particular description of goods.—Grape-Syrup and Vinegar.

Claims use since Nov. 24, 1919.

Ser. No. 126,594. (CLASS 39. CLOTHING.) HARRY ROSENBERG, New York, N. Y. Filed Dec. 29, 1919.



Particular description of goods.—Raincoats.

Claims use since Apr. 1, 1910.

Ser. No. 126,628. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RUSSELL RAYMOND FRAZIER, Eldora, Iowa. Filed Dec. 30, 1919.

WONDER KLENE
SOAP JELLY
Cleans Everything You Have to Clean "So Easy"

No claim being made to the exclusive use of the words "Soap-Jelly Cleans Everything You Have to Clean So Easy" apart from that shown in the accompanying drawing.

Particular description of goods.—Soaps for Laundry and Toilet Purposes, for Removing Grease and Stains from Fabrics, and for Polishing Cut Glass and Kitchen Utensils.

Claims use since on or about the 1st day of January, 1919.

Ser. No. 127,100. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TITMUS OPTICAL CO., INC., Petersburg, Va. Filed Jan. 13, 1920.

PERFEX

Particular description of goods.—Optical Lenses.

Claims use since on or about Aug. 15, 1918.

Ser. No. 128,385. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALDERIC DESAINT, Providence, R. I. Filed Feb. 14, 1920.



Particular description of goods.—Certain Medicines and Pharmaceutical Preparations—viz., Medicine for Catarrh, Tonic for Purifying the Blood, Hair-Tonic, Medicine for Rheumatism and Impure Blood, Ear Medicine, and Eye-Water.

Claims use since Jan. 1, 1920.

Ser. No. 128,493. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

SUMMIT

Particular description of goods.—Hose and Belting Made of Rubber Reinforced with Fabric and Packing Made Wholly or Partly of Rubber or Having Rubber Incorporated Therein.

Claims use on hose and packing since about 1910 and on belting since about May, 1915.

Ser. No. 129,774. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BECKETT, LAYCOCK & WATKINSON LIMITED, London, England. Filed Mar. 16, 1920.

BECLAWAT

Particular description of goods.—Channel-Shaped Metal Rods Made in Lengths and Adapted to be Cut to Size.

Claims use since May 30, 1913.

Ser. No. 129,879. (CLASS 15. OILS AND GREASES.) FORD AUTO SUPPLY COMPANY, St. Louis, Mo. Filed Mar. 18, 1920.

FASCO

Particular description of goods.—Lubricating-Oils.

Claims use since Mar. 11, 1920.

Ser. No. 129,915. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JULIUS MICHELSON, Boston, Mass. Filed Mar. 18, 1920.



Particular description of goods.—Hardened and Ground V-Blocks, Surface-Plates, Angle-Plates, Parallel Blocks Hardened and Ground, Metal-Cutting Dies Used in Punch-Presses, Metal-Bending Dies, Metal Forming or Drawing Dies, Milling-Fixtures Used on Milling-Machines, and other Small Tools Made to Order to Special Design.

Claims use since Nov. 11, 1916.

Ser. No. 130,271. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FROZNPURE MILK PRODUCTS CO., Birmingham, Ala. Filed Mar. 27, 1920.

FROZNPURE

Particular description of goods.—Milk Products, Ice-Creams, Sherbets, and Frozen Ices.

Claims use since February, 1917.

Ser. No. 130,395. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) UNITED DRUG COMPANY, Boston, Mass. Filed Mar. 30, 1920.

Firstaid

The phrase "Trade Mark" shown in the drawing is hereby disclaimed.

Particular description of goods.—White-Enamel Pus-Pan, White-Enamel Bedpan, Regular Bedpan, Seamless Douche-Pan, Seamed Female Urinal, Seamed Male Urinal, Seamless Irrigator, and Seamed Irrigator.

Claims use since Jan. 23, 1918.

Ser. No. 130,491. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIMON RUDNICK, New York, N. Y. Filed Apr. 1, 1920.



No claim is made to the words "Trade Mark Registered" and "New York" apart from the mark as shown in the drawing.

Particular description of goods.—Toilet Products—Namely, Henna Shampoo in Powder Form for Beautifying the Hair, Hair-Tonics to Stimulate the Growth and Remove Dandruff, and Manicure Requisites, Such as Liquid Polish for the Finger-Nails, Nail-Bleach, Nail-Polish in Paste Form, Cuticle-Remover in Liquid Form; Also, Creams, Powders, and Rouges for the Complexion, Brilliantine in Liquid and Jelly Forms.

Claims use since the year 1911.

Ser. No. 130,575. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CHICAGO PNEUMATIC TOOL COMPANY, Chicago, Ill. Filed Apr. 3, 1920.

GIANT

Particular description of goods.—Electric Track-Drills, Electric Spindle-Drills, Electric Grinders, Electric Spike-Drivers, Electric Hammer-Drills, Electric Hoists, and Electric-Circuit Breakers.

Claims use since Jan. 1, 1898.

Ser. No. 130,678. (CLASS 27. HOROLOGICAL INSTRUMENTS.) ED KUMMER LIMITED, Bettlach, Switzerland, and New York, N. Y. Filed Apr. 5, 1920.

Jnventic

Particular description of goods.—Watches, Watchcases, Watch-Dials, and Watch-Movements.

Claims use since Dec. 12, 1914.

Ser. No. 130,787. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEORGE WILLIAM BELDAM, Ealing, England. Filed Apr. 7, 1920.



Particular description of goods.—Rubber Sponges.

Claims use since July 11, 1918.

Ser. No. 130,940. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARROW CHEMICAL COMPANY, St. Louis, Mo. Filed Apr. 10, 1920.

ARROW
REMEDIES

The trade-mark consists of the word "Arrow," with an arrow running back of the letters of the word "Arrow," left to right. The word "Remedies" appearing on the drawing is hereby disclaimed and forms no part of the trade-mark adopted by this company.

Particular description of goods.—Proprietary Medicines for the Relief of Such Ailments as Headaches, Colds, La Grippe, and Indigestion.

Claims use since Mar. 25, 1920.

Ser. No. 131,596. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RIKKERS BROS. INC., New York, N. Y. Filed Apr. 24, 1920.

R.W.A.

Particular description of goods.—Scissors.

Claims use since on or about Jan. 2, 1920.

Ser. No. 134,042. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SMOOTH-ON MANUFACTURING COMPANY, Jersey City, N. J. Filed June 22, 1920.

SMOOTH-ON

Particular description of goods.—Substances Chiefly Composed of Comminuted Iron in Powder and Plastic Form for Cementing, Interstice-Closing, and Surfacing and Surface-Coating.
Claims use since 1894.

Ser. No. 134,115. (CLASS 39. CLOTHING.) CARAVEL COMPANY, INC., New York, N. Y. Filed June 24, 1920.

CARAVEL



Particular description of goods.—Underwear and Furnishings Consisting of Men's Shirts, Rubber Coats and Mackintoshes, Overalls, Trousers; Women's Chemises, Chemisettes, Camisolcs, Combination-Aprons, Bonnets, Hat-Frames, Sashes, Bustles, Shirtwaists, Brassières, Negligées, Toques, Jumpers, Capes, Kimonos, Shawls, Blouses, Drawers, Bloomers, Petticoats, Corset-Covers, Corsets, Teddy Envelops and Slippers, and Cloaks, Suits, Hats, Helmets, Athletic Underwear, Knitted Undergarments, Oiled Clothing and Waterproofed Garments, Sleeping-Garments, Gymnasium-Suits, Jackets, Scarfs, Mufflers, Gaiters; Boots and Shoes Made of Leather, Rubber, and Fabric; Union-Suits, Gauntlets, Sweaters, Hoods, Caps, Vests, Capes, Hosiery, Sport and Sporting-Goods Suits, Jerseys, Knee-Tights, Camping-Suits, Sandals, Neckwear, Cuffs, and Gloves of Leather, Rubber, and Fabric for Men and Women.
Claims use since about June 8, 1918.

Ser. No. 134,117. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DONAHUE MANUFACTURING CORPORATION, New Rochelle, N. Y. Filed June 24, 1920.



Applicant disclaims any exclusive right to the word "Toys" or the geographical term "New Rochelle, N. Y." apart from the other features of the mark shown on the drawing.
Particular description of goods.—Children's Toys and Playthings—Namely, Toy Rabbits, Toy Ducks and Ducklings, Toy Chickens and Chicks, Toy Giraffes, Toy Elephants, Toy Goats, Dolls, Toy Clowns, and Toy Arks.
Claims use since May 1, 1919.

Ser. No. 134,720. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CLARENCE MAY, Chicago, Ill. Filed July 8, 1920.

C-H-O-W

Particular description of goods.—Candy.
Claims use since January, 1918.

Ser. No. 135,544. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) F. B. DALLAM, San Francisco, Calif. Filed July 28, 1920.

BULLS EYE



Particular description of goods.—Old Newspapers.
Claims use since May 1, 1920.

Ser. No. 136,301. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOS. MUSLINER & CO. INC., New York, N. Y. Filed Aug. 20, 1920.

MUSCO

Particular description of goods.—Sole-Leather.
Claims use since June 1, 1920.

Ser. No. 136,402. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CANDY PRODUCTS CORPORATION, Chicago, Ill. Filed Aug. 24, 1920.



Big Baby

Particular description of goods.—Candy.
Claims use since Aug. 5, 1919.

Ser. No. 136,425. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL O. NUTT, Des Moines, Iowa. Filed Aug. 24, 1920.



Particular description of goods.—A Gargle for Sore Throat.
Claims use since Nov. 16, 1916.

Ser. No. 136,705. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM HALL & CO. LIMITED, Studley, England. Filed Sept. 1, 1920.



Particular description of goods.—Needles, Toilet-Pins, Bodkins, Knitting-Pins, and Crochet-Hooks.
Claims use since Mar. 18, 1882.

Ser. No. 137,031. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WM. HENDERSON, Charleston, W. Va. Filed Sept. 10, 1920.

QURET
TRADE MARK

Particular description of goods.—A Salve for Cuts, Boils, Abscesses, Carbuncles, Sores, and Infection.
Claims use since Nov. 15, 1919.

Ser. No. 137,076. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB E. DECKER & SONS, Mason City, Iowa. Filed Sept. 11, 1920.

PEACH BRAND

Applicant expressly disclaims any exclusive right to the use of the word "Brand" as a trade-mark and asks only exclusive registration of the word "Peach" in the use set forth herein.
Particular description of goods.—Oleomargarin.
Claims use since July 1, 1919.

Ser. No. 137,077. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB E. DECKER & SONS, Mason City, Iowa. Filed Sept. 11, 1920.

ORIOLE
BRAND

Applicant does not claim an exclusive right of use of the word "Brand."
Particular description of goods.—Oleomargarin.
Claims use since July 1, 1919.

Ser. No. 137,078. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB E. DECKER & SONS, Mason City, Iowa. Filed Sept. 11, 1920.

VICTOR BRAND

Exclusive right to the use of the word "Brand" being disclaimed.
Particular description of goods.—Full Cream-Cheese.
Claims use since June 1, 1919.

Ser. No. 137,591. (CLASS 39. CLOTHING.) RIPON SHIRTWAIST COMPANY, Ripon, Wis. Filed Sept. 24, 1920.

"Sunflower" Waist

Particular description of goods.—Ladies' Waists.
Claims use since May, 1917.

Ser. No. 137,735. (CLASS 37. PAPER AND STATIONERY.) ISAIA LEVI, Turin, Italy. Filed Sept. 29, 1920.

"AVRORA,,

Particular description of goods.—Fountain-Pens, Pen-Points, Pen and Pencil Clips, Pencil-Holders, Fountain-Pen and Pencil Casings, Erasers of Rubber and Rubber Composition, Fountain-Pen Fillers, Leads for Pencils, and Repair Parts for Fountain-Pens.
Claims use since Aug. 9, 1919.

Ser. No. 137,979. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAN VLEET-MANSFIELD DRUG CO., Memphis, Tenn. Filed Oct. 5, 1920.



VAN VLEET'S

No claim is made to the use of the word "Van Vleet's" apart from the mark shown by the drawing. In the drawing the mark, comprising in part a shield, is indicated to represent a red coloration.
Particular description of goods.—A Medicinal Preparation Known as a Chill-Tonic.
Claims use since March, 1920.

Ser. No. 138,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELIAS BERNSTEIN, New York, N. Y. Filed Oct. 6, 1920.

MEL-O-DEE

Particular description of goods.—Mixed Canary-Seeds.
Claims use since Aug. 12, 1920.

Ser. No. 138,040. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE ARTHUR BALFOUR STEEL CO. INC., Wilmington, Del., and Boston, Mass. Filed Oct. 7, 1920.

BALFOSTEEL

Particular description of goods.—Steel Bars.
Claims use since June 1, 1920.

Ser. No. 138,117. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ARMSTRONG, SAGAR & CO., Manchester, England. Filed Oct. 9, 1920.



We do not claim any right to the exclusive use of the device of a woman with children or the device of a floral border except as shown hereon. We also disclaim exclusive right to the words "Cambric, 42 Inches," as well as the foreign phrases "Qui Dura Vincit," "Pour les Dames et les Enfants," and "Magnifique" appearing on the mark apart from the mark as shown on the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Aug. 16, 1916.

Ser. No. 138,397. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed Oct. 16, 1020.

PEACOCK

Particular description of goods.—Woolens, Broad Silks, Velvets, Silk Crapes, and Voiles and Silk Shirtings, All Piece Goods.
Claims use since May 27, 1915.

Ser. No. 138,428. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAPITOL PRODUCTS COMPANY, Des Moines, Iowa. Filed Oct. 18, 1920.

PRO-LAC
RE-ENFORCED BUTTERMILK

No claim is made to the exclusive right to the use of the words "Re-enforced Buttermilk" except in connection with the other features of the trade-mark as shown.
Particular description of goods.—Prepared Stock Foods.
Claims use since Aug. 15, 1920.

Ser. No. 138,572. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE INDEPENDENT BREWERIES COMPANY, St. Louis, Mo. Filed Oct. 20, 1920.

PEP

Particular description of goods.—Non-Intoxicating, Cereal, Malt Beverage Containing Less Than One-Half of One Per Cent. Alcohol by Volume.
Claims use since Apr. 10, 1916.

Ser. No. 138,593. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Oct. 20, 1920.

SOCIETY

Particular description of goods.—Veils and Vellings in the Piece.
Claims use since July 1, 1914.

Ser. No. 138,881. (CLASS 39. CLOTHING.) GUY D. SISSON COMPANY, Los Angeles, Calif. Filed Oct. 27, 1920.

Buttercup

Particular description of goods.—Dresses.
Claims use since Mar. 3, 1920.

Ser. No. 139,174. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED H. SMITH COMPANY, New York, N. Y. Filed Nov. 4, 1920.

DJER-KISS

The trade-mark being colored gold.
Particular description of goods.—Toilet Water, Face-Powders, Perfume Extracts, Sachet; Eau Vegetale, a Preparation Used to Soothe and Perfume the Skin After Shaving; Rouge, Lip-Sticks, Face-Creams, Brilliantines, Eyebrow-Pencils, and Talc Powder.
Claims use since Nov. 1, 1903.

Ser. No. 139,486. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) VOSS BROTHERS MANUFACTURING CO., Davenport, Iowa. Filed Nov. 10, 1920.

SEA WAVE

Particular description of goods.—Laundry-Washing Machines.
Claims use since June 12, 1920.

Ser. No. 139,535. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE K-M MANUFACTURING COMPANY, Toledo, Ohio. Filed Nov. 11, 1920.

K-M

Particular description of goods.—Windshield-Cleaners of the Blade-Wiping Type.
Claims use since March, 1916.

Ser. No. 139,579. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED M. KRONBERGER, Boston, Mass. Filed Nov. 12, 1920.

FERRO-CHINA-VIGORE

No claim being made to the words "Ferro China" apart from the mark shown.
Particular description of goods.—Reconstructive, Digestive, and Nerve Tonic.
Claims use since Aug. 23, 1920.

Ser. No. 140,133. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN MCQUADE, Brooklyn, N. Y. Filed Nov. 24, 1920.

VULCANITE

Particular description of goods.—Ready-Mixed Paints.
Claims use since Jan. 1, 1888.

Ser. No. 140,148. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) STEVENSON GEAR COMPANY, Indianapolis, Ind. Filed Nov. 24, 1920.

GEARS
STEVENSON MULTIPLE SHAPER
MOVE THE WORLD

Applicant disclaims exclusive use of the words "Gears," "Multiple," and "Shaper" except as they appear in conjunction with the other portions of the mark.

Particular description of goods.—Machines for Forming Polygonal Articles, Gears, &c.; Also Gears, Milling-Cutters, Toothed Wheels, Reamers, Splined Shafts, Sprocket-Wheels, Circular Saws, Slotted Hubs, Fluted Taps, and Knitting-Machine Cylinders.

Claims use since June 14, 1920.

Ser. No. 140,239. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE WANDER COMPANY, Chicago, Ill. Filed Nov. 26, 1920.

WANDER BRAND

We hereby disclaim registration of the word "Brand" shown on the drawing.

Particular description of goods.—Crystalline Malt Extract.

Claims use since July 1, 1918.

Ser. No. 140,407. (CLASS 15. OILS AND GREASES.) HENRY PAULSON, Chicago, Ill. Filed Nov. 29, 1920.

"MERITAS"

My trade-mark consists of the word "Meritas."

Particular description of goods.—Watch-Oil and Clock-Oil.

Claims use since Feb. 15, 1904.

Ser. No. 140,567. (CLASS 39. CLOTHING.) LIBERTY MANUFACTURING COMPANY, Baltimore, Md. Filed Dec. 3, 1920.

LIBERTY

Particular description of goods.—Ladies' and Children's Nightgowns, Pajamas, and Sleeping-Garments, Ladies' Outer Skirts, and Men's and Boys' Night-Robes and Pajamas.

Claims use since 1902.

Ser. No. 140,755. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. D. SMITH DRUG CO., St. Joseph, Mo. Filed Dec. 7, 1920.

APEX

Particular description of goods.—Spirits of Camphor, Moth-Balls, Powdered Alum, Powdered Henna-Leaves, Copperas Crystals, Sassafras-Bark, Boracic Acid, Flowers of Sulfur, Flaxseed-Meal, Magnesia Carbonate, Sodium Bicarbonate; Sodium Phosphate, Granulated; Sodium Phosphate, Effervescent; Powdered Borax, Epsom Salt; Prepared Chalk, (White and Pink;) Sugar of Lead, Permanganate Potash, Rochelle Salts, Orris- Root, Calomel, Cream of Tartar, Tartaric Acid, Powdered Turmeric, Powdered Compound Licorice, Granular Saltpeter, Insect-Powder, Chloroform, Tincture Chlorid Iron, Tincture Arnica, Peroxid Hydrogen, Glycerin and Rose-Water, Glycerin, Paregoric, Spirits Niter, Essence Peppermint, Essence of Ginger, Carbolic Acid, Zinc-Oxid Ointment, Blue-Ointment, Tincture Iodin, Castor-Oil, Witch-Hazel Extract, Household Ammonia, and Toilet Perfumed Ammonia, Senna-Leaves, Bay-Rum, Petrolatum, and Petrolatum Carbolated.

Claims use since Oct. 4, 1920.

Ser. No. 140,938. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) GEO. R. GIBSON CO., New York, N. Y. Filed Dec. 11, 1920.



Particular description of goods.—Shaving-Brushes.

Claims use since Apr. 1, 1919.

Ser. No. 141,195. (CLASS 39. CLOTHING.) UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland. Filed Dec. 16, 1920.



No claim is made to the exclusive use of the word "Lomond."

Particular description of goods.—Men's, Women's, and Children's Coats, Raincoats, and Overcoats; Jumpers; Ladies' and Misses' Dresses, Blouses, and Skirts; Men's Hats and Caps; Ladies' Bonnets, Hats, and Caps; Leather and Textile Gloves, Neckties, Collars, Slippers, Men's and Boys' Outer Shirts; Underwear—Namely, Vests, Pants, Pajamas, Chemises, Knickers, Petticoats, Bodices, Corsets, Camisoles, Combinations, Underskirts, and Bloomers—Garters, Suspenders, and Braces.

Claims use since the 19th of February, 1920.

Ser. No. 141,482. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DITZLER COLOR COMPANY, Detroit, Mich. Filed Dec. 24, 1920.



Particular description of goods.—Paste and Dry Paints, Varnishes, Primers, Paint Enamels, Japan Colors, and Undercoatings.

Claims use since December, 1916.

Ser. No. 141,497. (CLASS 39. CLOTHING.) MANES & OPPENHEIMER, INC., New York, N. Y. Filed Dec. 24, 1920.

KIDDIE KOMFORT

Particular description of goods.—Infants' and Children's Bath-Robes, Gertrudes, Muslin Underwear, Wrappers and Kimonos, Flannel Skirts, Gowns, Sleepers, Infants' Sacks, Baby-Buntings.

Claims use since Aug. 31, 1920.

Ser. No. 141,601. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OELERICH & BERRY CO., Chicago, Ill. Filed Dec. 28, 1920.

NULIFE

Particular description of goods.—Cane-Molasses for Stock-Feeding Purposes.

Claims use since 1905.

Ser. No. 141,603. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REMAR COMPANY, Oakland, Calif. Filed Dec. 28, 1920.

FIESTA

Particular description of goods.—Ice-Cream.

Claims use since September, 1920.

Ser. No. 141,617. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WADSWORTH-HOWLAND COMPANY, Chicago, Ill. Filed Dec. 28, 1920.



Particular description of goods.—Paint Enamel for Decorative Purposes.

Claims use since Nov. 15, 1897.

Ser. No. 141,654. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SCOTT'S PREPARATIONS INC., New York, N. Y. Filed Dec. 29, 1920.



No claim being made to the words "Nature's Beautifier."

Particular description of goods.—Toilet and Medicinal Preparation Used as a Facial and Body Massage Cream and Mud and as a Skin Curative.

Claims use since Aug. 30, 1920.

Ser. No. 141,756. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENNETT AND ASPDEN COMPANY, Philadelphia, Pa. Filed Jan. 3, 1921.

DUTCHESS

Particular description of goods.—Velvets in the Piece.

Claims use since 1914.

Ser. No. 141,759. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENNETT AND ASPDEN COMPANY, Philadelphia, Pa. Filed Jan. 3, 1921.

ANTIQUE

Particular description of goods.—Velvets in the Piece.

Claims use since 1914.

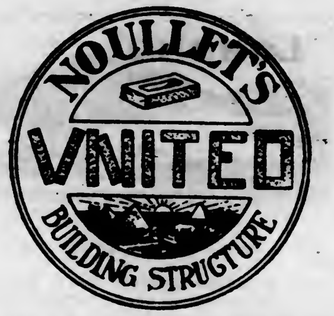
Ser. No. 141,760. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENNETT AND ASPDEN COMPANY, Philadelphia, Pa. Filed Jan. 3, 1921.

MOSQUE

Particular description of goods.—Velvets in the Piece.

Claims use since 1914.

Ser. No. 141,794. (CLASS 12. CONSTRUCTION MATERIALS.) FRANK A. NOULLET, Covington, La. Filed Jan. 3, 1921.



I particularly disclaim the exclusive use to the words "Building Structure" and to the representation of the building-block.

Particular description of goods.—Building-Blocks.

Claims use since Sept. 22, 1920.

Ser. No. 142,003. (CLASS 15. OILS AND GREASES.) ASSOCIATED OIL COMPANY, San Francisco, Calif. Filed Jan. 10, 1921.



Particular description of goods.—Petroleum Products—Namely, Gasolene, Engine-Distillate, Kerosene, Fuel-Oil, and Petroleum Lubricating Oils and Greases.

Claims use since the 24th day of December, 1920.

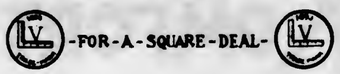
Ser. No. 142,009. (CLASS 37. PAPER AND STATIONERY.) CORLIES, MACY & CO., INC., New York, N. Y. Filed Jan. 10, 1921.

COMMON SENSE

Particular description of goods.—Writing-Papers.

Claims use since Sept. 20, 1920.

Ser. No. 142,053. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) J. VANDER ZANDEN, Green Bay, Wis. Filed Jan. 10, 1921.



No claim is made to the words "Trade Mark" apart from the mark shown in the drawing.

Particular description of goods.—Jewelry for Personal Wear, Not Including Watches; Also Precious-Metal Ware—Namely, Flat and Hollow Tableware Made of or Plated With Precious Metal.

Claims use since Sept. 14, 1920.

Ser. No. 142,074. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HALLIGAN CANDY COMPANY, Davenport, Iowa. Filed Jan. 11, 1921.



WOODLAND

Particular description of goods.—Chocolate Candy.

Claims use since August, 1915.

Ser. No. 142,121. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ANDRÉ BECHLER, Moutier, Switzerland. Filed Jan. 12, 1921.

MULTIPASS

Particular description of goods.—Lathes and Automatic Lathes, Parts Thereof, and Tools for Said Lathes.

Claims use since Sept. 23, 1920.

Ser. No. 142,127. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BUCKEYE TRACTION DITCHER COMPANY, Findlay, Ohio. Filed Jan. 12, 1921.

BUCKEYE

Particular description of goods.—Pipe-Screwing Apparatus for Effecting a Screwing of One Pipe-Section into Engagement with Another in Laying Pipe-Lines and for Oil-Well Pulling and Cleaning Apparatus.

Claims use since Nov. 21, 1916.

Ser. No. 142,139. (CLASS 37. PAPER AND STATIONERY.) FISCHEL PAPER COMPANY, Albany, N. Y. Filed Jan. 12, 1921.



JOAN OF ARC

Particular description of goods.—Ledger-Paper, Book-Paper, Cover-Paper, Blotting-Paper, and Bond-Paper Used for Writing-Paper, Envelops, and Ordinary Printing Purposes.

Claims use since Jan. 19, 1920.

Ser. No. 142,150. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANDREW KUNDEUS, Endicott, N. Y. Filed Jan. 12, 1921.



Andrew Kundeus

The mark consists of a facsimile of applicant's portrait and signature.

Particular description of goods.—A Salve for the Relief of Sufferers from Eczema.

Claims use since Nov. 2, 1920.

Ser. No. 142,240. (CLASS 39. CLOTHING.) EMANUEL V. SHIVERS, Baltimore, Md. Filed Jan. 13, 1921.

"HEARTS OF OAK"

Particular description of goods.—Shoe-Repairs Consisting of Leather Soles and Heels.

Claims use since on or about Nov. 1, 1918.

Ser. No. 142,247. (CLASS 12. CONSTRUCTION MATERIALS.) THE FAIRBANKS CO., New York, N. Y. Filed Jan. 14, 1921.



Consisting of the word "Fairbanks" in white upon an octagonal blue ground, underscored by a white line, and the letters "O. K." upon a white octagonal panel outlined in blue and located in the blue octagonal panel behind the word "Fairbanks."

Particular description of goods.—Metal-Girder Clamps, Cast-Iron Wall-Frames, Steel-Arch Wall-Frames, Metal Base-Plates, Cast-Iron Brackets, and Asbestos Millboard and Metallic Cement for Pipe-Joints and Mending Castings.

Claims use since July 10, 1919.

Ser. No. 142,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FIELDON W. WISEMAN, St. Louis, Mo. Filed Jan. 17, 1921.

L'ART-MODE

Particular description of goods.—Toilet Creams, Toilet Powders, Toilet Lotions, and Perfumes.

Claims use since Apr. 22, 1920.

Ser. No. 142,444. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) POTH & KUEHNER, St. Louis, Mo. Filed Jan. 19, 1921.



Particular description of goods.—A Preparation for the Treatment of Piles.

Claims use since Dec. 21, 1918.

Ser. No. 142,453. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PLOUGH CHEMICAL COMPANY, Memphis, Tenn. Filed Jan. 19, 1921.

BLACK AND WHITE

Particular description of goods.—A Line of Medicines and Toilet Preparations—viz., "Family Medicine" for Stomach Disorder, Headache, Colds, Catarrh, Malaria, and Kindred Ailments, Antibilious Pills, Cold-Cream, Peroxid Cream, Skin-Ointment, Hair-Dressing, Preparation for Hair and Scalp Treatment, Cleansing-Cream, Dental Cream, Rouge, Face-Powder, and Talcum Powder.

Claims use since about 1911.

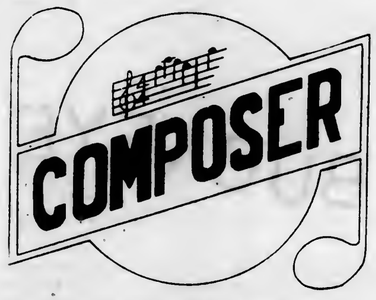
Ser. No. 142,454. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PLOUGH CHEMICAL COMPANY, Memphis, Tenn. Filed Jan. 19, 1921.



Particular description of goods.—A Line of Medicines and Toilet Preparations—viz., "Family Medicine" for Stomach Disorder, Headache, Colds, Catarrh, Malaria, and Kindred Ailments, Antibilious Pills, Cold-Cream, Peroxid Cream, Skin-Ointment, Hair-Dressing, Preparation for Hair and Scalp Treatment, Cleansing-Cream, Dental Cream, Rouge, Face-Powder, and Talcum Powder.

Claims use since about Apr. 16, 1917.

Ser. No. 142,480. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since June 5, 1920.

Ser. No. 142,481. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since June 5, 1920.

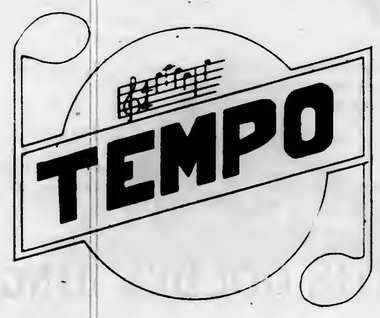
Ser. No. 142,482. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since June 5, 1920.

Ser. No. 142,483. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since June 5, 1920.

Ser. No. 142,484. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING CO., Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since June 5, 1920.

Ser. No. 142,485. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since June 5, 1920.

Ser. No. 142,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since June 5, 1920.

Ser. No. 142,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since June 5, 1920.

Ser. No. 142,488. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING CO., Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since June 5, 1920.

Ser. No. 142,489. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GALLATIN VALLEY MILLING COMPANY, Seattle, Wash., and Belgrade, Mont. Filed Jan. 20, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since June 5, 1920.

Ser. No. 142,514. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OTIS R. LYONS, Kansas City, Mo. Filed Jan. 20, 1921.



Particular description of goods.—A Preparation of Goose-Grease, Turpentine, and other Ingredients for Use in the Treatment of Colds and Lung Troubles.
Claims use since Nov. 15, 1920.

Ser. No. 142,531. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR Z. PEDERSEN, Orange, N. J. Filed Jan. 20, 1921.

CHROMINE

Particular description of goods.—Antifreeze Solutions, Particularly of an Anticorrosion Nature, for Cooling Fluids in Automobile and other Radiators and Refrigerating Solutions.
Claims use since on or about Nov. 6, 1920.

Ser. No. 142,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CEDAR HILL FORMULAR COMPANY, New Britain, Conn. Filed Jan. 22, 1921.

POLLO

Particular description of goods.—A Preparation for Cleaning and Polishing Varnished Surfaces.
Claims use since Oct. 1, 1920.

Ser. No. 142,621. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HAAS & KIRKLAND, Winter Haven, Fla. Filed Jan. 22, 1921.

THE GOLDEN RING

Particular description of goods.—Trees.
Claims use since June 1, 1920.

Ser. No. 142,708. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) IRONWARP SILK MILLS, INC., Allentown, Pa. Filed Jan. 24, 1921.

Ironwarp

Particular description of goods.—Silks, Cotton and Crape Textiles in the Piece.
Claims use since Dec. 6, 1915.

Ser. No. 142,712. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES S. LIVESAY, Palo Alto, Calif. Filed Jan. 24, 1921.



The lining of the drawing indicating shading merely.
Particular description of goods.—A Hair-Tonic.
Claims use since Nov. 1, 1920.

Ser. No. 142,715. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NUX-I-KOLA COMPANY, Detroit, Mich. Filed Jan. 24, 1921.

NUX-I-KOLA

The word "Nux-I-Kola."
Particular description of goods.—General Tonic.
Claims use since Nov. 10, 1920.

Ser. No. 142,815. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD TAR PRODUCTS CO., Milwaukee, Wis. Filed Jan. 26, 1921.



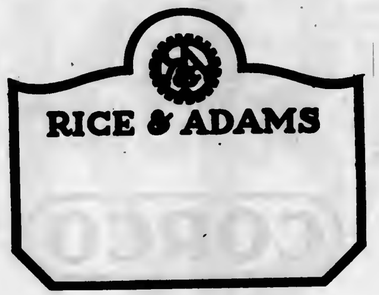
Particular description of goods.—Wood-Preservatives and Fly-Sprays.
Claims use since Feb. 1, 1920.

Ser. No. 142,851. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) OAK CHROME & STONE CHROME LEATHER CO., Masury, Ohio. Filed Jan. 27, 1921.



No claim being made to the representation of a leather half-sole or to the words "Oak Chrome & Stone Chrome Leather Company," "Stone," "Trade Mark," and "Chrome" apart from the mark shown.
Particular description of goods.—Sole-Leather.
Claims use since June 28, 1920.

Ser. No. 142,855. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RICE & ADAMS CORPORATION, Buffalo, N. Y. Filed Jan. 27, 1921.



Particular description of goods.—Bottle-Washers, Can-Washers, Biscuit-Tin Washers, Metal-Parts Washers, Dish-Washers, Battery-Jar Washers, Milk-Bottle Fillers, Milk-Bottle Cappers, Milk-Bottle Pasteurizers.
Claims use since Dec. 14, 1916.

Ser. No. 142,857. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMBROSE S. SWEET, Elmira, N. Y. Filed Jan. 27, 1921.

ICE-MINT

Particular description of goods.—A Cooling, Soothing, Antiseptic Preparation for External Use.
Claims use since January, 1917.

Ser. No. 142,886. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN HENRY KESSLER, Cleveland, Ohio. Filed Jan. 28, 1921.

VIX-UM

Particular description of goods.—Liquid Preparation for Treatment of Asthma, Bronchitis, Croup, Whooping-Cough, Catarrhal Sore Throat, Colds, Lung Affections.
Claims use since Dec. 24, 1920.

Ser. No. 143,016. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE STEELDUCT COMPANY, Youngstown, Ohio. Filed Jan. 31, 1921.

STEELDUCT SD

No claim is made to the term "Steelduct" apart from the mark shown.
Particular description of goods.—Pipes or Electric Conduits to Carry Electric Wires—Namely, Rigid Steel Conduits.
Claims use since July 19, 1920.

Ser. No. 143,026. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 31, 1921.

CORCO

Particular description of goods.—Sheet-Metal Culverts, Well-Casings of Slip-Joint and Screw-Joint Types, Flood-Gates, and Lead Gas Connections.
Claims use since about June 15, 1914, on culverts; since about Nov. 15, 1914, on flood-gates and well-casings, and since Jan. 1, 1921, on lead gas connections.

Ser. No. 143,049. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE IZZARD COMPANY, Seattle, Wash. Filed Feb. 1, 1921.

SEA-FED
BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Salmon.
Claims use since Dec. 16, 1920.

Ser. No. 143,084. (CLASS 39. CLOTHING.) ESTHER L. BORNSTEIN, Cambridge, Mass. Filed Feb. 2, 1921.

DUROPLAY SUIT

No claim being made to the exclusive use of the words "Play Suit" apart from the mark shown.
Particular description of goods.—Three-Piece Play-Suits, Blouses, Bloomers, and Skirts.
Claims use since Dec. 27, 1920.

Ser. No. 143,088. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BUFFALO FORGE COMPANY, Buffalo, N. Y. Filed Feb. 2, 1921. Under ten-year proviso.

BUFFALO

Particular description of goods.—Machines and Apparatus and Parts Thereof for Bending, Cutting, Punching, Shearing, Drilling, Upsetting, and Riveting Metal and the Like, Air-Blast Conveyers, Steam-Engines, Steam-Turbines, Air and Gas Exhausters, Fans and Blowers, Emery-Wheel Hoods, Tire and Axle Setters, Blacksmiths' and Combination Shears, Metal-Tire Shrinkers, Tire and Bolt Upsetters, Vapor-Condensers, Pumps and Pumping Machinery and Parts Thereof, Water-Eliminators, Air-Washers, Dust-Separators, Blowpipe Systems, Twyers, Irons, Cooling-Ponds; Sugar-Plant Machinery, Including Cane-Crushers, Cane and Bagasse Carriers, Clarifiers, Crystallizers, Centrifugals, Endless-Chain Elevators, Bagasse-Feeders, Cane-Mills; Rice and Grain Treating Machinery, Including Classifiers, Driers, Endless-Chain Elevators, Fans, Hullers, and Polishers; Coffee Machinery, Including Conveyers, Hullers, Pulpers, Polishers, Fanning-Mills, and Grading-Reels.
Claims use since 1878.

Ser. No. 143,090. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE BURHANS-EBERMAN CO., Cleveland, Ohio. Filed Feb. 2, 1921.



Particular description of goods.—Ready-Mixed and Paste Paints.
Claims use since Oct. 15, 1920.

Ser. No. 143,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. H. VOTER, INC., Boston, Mass. Filed Feb. 2, 1921.

CRESERVATIVE

Particular description of goods.—Wood-Preservative.
Claims use since Aug. 7, 1919.

Ser. No. 143,130. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RALPH C. KING, Columbus, Ga. Filed Feb. 3, 1921.

PYRODINE

Particular description of goods.—A Preparation for the Treatment of Diseases of the Mouth and Teeth, Such as Pyorrhea Alveolaris, (Rigg's Disease.)
Claims use since June 28, 1919.

Ser. No. 143,144. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK SARAPAS, Kincaid, Ill. Filed Feb. 3, 1921.



Frank Sarapas

The picture shown is a facsimile of the applicant's portrait.
Particular description of goods.—Medicine for Relieving Influenza, Pneumonia, and Inflammation of Lungs.
Claims use since Sept. 1, 1920.

Ser. No. 143,197. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN LEVANT SYNDICATE INC., New York, N. Y. Filed Feb. 5, 1921.

ALSIN PRODUCTS



Particular description of goods.—Wheat-Flour.
Claims use since July 1, 1920.

Ser. No. 143,215. (CLASS 15. OILS AND GREASES.) KATZENBACH & BULLOCK CO., New York, N. Y. Filed Feb. 5, 1921.

K & B

Particular description of goods.—Castor-Oil Used in Lubricants, Cotton-Seed Oil When Used in Lubricants, Match-Wax When Used for Illuminating Purposes, Paraffin-Wax When Used for Illuminating Purposes, Petrolatum When Used in Lubricants, Petroleum Jelly When Used in Lubricants, Soy-Bean Oil When Used in Lubricants.
Claims use since June, 1910.

Ser. No. 143,240. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OSWALD B. STRUB, St. Louis, Mo. Filed Feb. 5, 1921.

ANTI ANTI AKE AKE

Particular description of goods.—A Medicinal Preparation for Headache, Neuralgia, Colds, Grippe, and Rheumatic Pains.
Claims use since the early part of January, 1914.

Ser. No. 143,301. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAVEALL DENTIFRICE COMPANY, Chicago, Ill. Filed Feb. 7, 1921.



Particular description of goods.—Dentifrice.
Claims use since Nov. 1, 1920.

Ser. No. 143,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KLINKER MANUFACTURING CO., Cleveland, Ohio. Filed Feb. 8, 1921.

GLOIRE DE PARIS

Particular description of goods.—Cold-Cream, Rose Cold-Cream, Vanishing Cream, Peroxid Vanishing Cream, Massage-Cream, Cocoa-Butter, Tissue-Cream, Honey and Almond Cream, Almond-Meal, Cocoanut-Oil Shampoo, Tar Shampoo, Antiseptic Shaving-Lotion, Toilet Water, Liquid Face-Powder, and Perfume.
Claims use since February, 1920.

Ser. No. 143,383. (CLASS 12. CONSTRUCTION MATERIALS.) THE CHATFIELD MANUFACTURING COMPANY, Cincinnati, Ohio. Filed Feb. 10, 1921.

PARASLATE

Particular description of goods.—Prepared Roofing in Roll, Sheet, or Shingle Form.
Claims use since the 1st of March, 1916.

Ser. No. 143,472. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ANDREW JERGENS COMPANY, Cincinnati, Ohio. Filed Feb. 12, 1921.

CASTOLAY

Particular description of goods.—Toilet Powder.
Claims use since Jan. 27, 1921.

Ser. No. 143,486. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE C. C. COMPANY, Des Moines, Iowa. Filed Feb. 12, 1921.



No claim is made to the word "Pills" appearing in the trade-mark.
Particular description of goods.—Laxative Pills.
Claims use since Jan. 18, 1920.

Ser. No. 143,508. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. B. MALLINSON & CO., INC., New York, N. Y. Filed Feb. 12, 1921.

Tré-Jolie

Particular description of goods.—Silk Piece Goods.
Claims use since December, 1920.

Ser. No. 143,522. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) UNKEFER VARNISH COMPANY, Chicago, Ill. Filed Feb. 12, 1921.

UVARGO

Particular description of goods.—Paint Enamels, Paste and Ready-Mixed Paints, Fillers, and other Paint-Coatings.
Claims use since July 1, 1919.

Ser. No. 143,569. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) STATE OF NEW YORK, Saratoga Springs, N. Y. Filed Feb. 14, 1921.



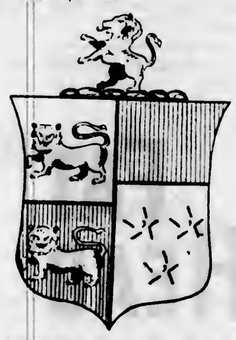
Particular description of goods.—Natural Mineral Water.
Claims use since about 1912.

Ser. No. 143,580. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TOWERS, WILLIAMSON & TOLLETT, Guthrie, Okla. Filed Feb. 14, 1921.



Particular description of goods.—A Preparation for the Treatment of Dandruff and Eczema.
Claims use since Jan. 1, 1921.

Ser. No. 143,592. (CLASS 38. PRINTS AND PUBLICATIONS.) DORRANCE & COMPANY, INC., Philadelphia, Pa. Filed Feb. 15, 1921.



Particular description of goods.—Printed Books.
Claims use since Aug. 6, 1920.

Ser. No. 143,658. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAURICE ROUSSEL, Paris, France. Filed Feb. 16, 1921.

SILKA

Particular description of goods.—Perfumes, Toilet Waters, Face-Lotions, Beauty-Cream, Face-Powder, Brilliantine.
Claims use since Mar. 16, 1910.

Ser. No. 143,675. (CLASS 42. (KNITTED, NETTED, AND TEXTILE FABRICS.) THE UNITED TURKEY RED COMPANY, LIMITED, Glasgow, Scotland. Filed Feb. 16, 1921.



Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 1, 1920.

Ser. No. 143,702. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PRAEMAFIX CORPORATION OF AMERICA, New York, N. Y. Filed Feb. 17, 1921.

Praemafix

Particular description of goods.—Embossing-Machines and Cutting and Punching Dies.
Claims use since Dec. 23, 1920.

Ser. No. 143,727. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed Feb. 17, 1921.

Western WESTEX

The diamond, upon which appears the word "Western," is colored red and the oval and word "Westex" are colored black.

Particular description of goods.—Impregnated or Coated Woven Fabrics—Namely, Imitation Leather, and Waterproof Cloth.

Claims use since about Jan. 1, 1920.

Ser. No. 143,756. (CLASS 39. CLOTHING.) WILLIAM GREILICH & SONS, INC., Brooklyn, N. Y. Filed Feb. 18, 1921.

KICK-EES WGS

Particular description of goods.—Leather, Canvas, and Cloth Shoes and Slippers.

Claims use since Dec. 15, 1920.

Ser. 143,760. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) L. HELLER & SON, INC., New York, N. Y. Filed Feb. 18, 1921.

HOPE

Consisting of the word "Hope."

Particular description of goods.—Precious Stones—viz., Rubies, Emeralds, and Pearls.

Claims use since Dec. 1, 1920.

Ser. No. 143,819. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HEALTH LABORATORIES, Scranton, Pa. Filed Feb. 19, 1921.

63

Particular description of goods.—A Specific for Rheumatism.

Claims use since Jan. 10, 1914.

Ser. No. 143,864. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HALL-NEAL FURNACE COMPANY, Indianapolis, Ind. Filed Feb. 21, 1921.

VICTOR

Particular description of goods.—Coal, Wood, Gas, and Oil Heating-Furnaces, Grate-Frames, Grate-Bars, Grate-Bar Levers.

Claims use since Apr. 4, 1901.

Ser. No. 143,877. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE MONARCH ENGINEERING COMPANY, Dayton, Ohio. Filed Feb. 21, 1921.

TRADE MARK MONARCH AUTOMATIC ELECTRIC WATER SYSTEMS

No claim is made to the words "Trade Mark" and "Automatic Electric Water Systems" apart from the mark shown.

Particular description of goods.—Electric Motors, Electric Switches, Electrical Cut-Outs, Circuit-Breakers, Circuit-Closers, Automatic Pressure and Float Operating Electrical Control and Indicating Devices.

Claims use since about Jan. 1, 1919.

Ser. No. 143,878. (CLASS 39. CLOTHING.) L. B. MERWIN CO., Bloomington, Ill. Filed Feb. 21, 1921.

TOMMY TUCKER

Particular description of goods.—Boys' Wash-Suits.

Claims use since Jan. 1, 1921.

Ser. No. 143,940. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MAX GLICK CO., Cleveland, Ohio. Filed Feb. 23, 1921.

FAT HEAD

Particular description of goods.—Candy.

Claims use since Jan. 27, 1921.

Ser. No. 143,984. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. DEDRICK, Indianapolis, Ind. Filed Feb. 24, 1921.

IM-PRO-HA-TO

Particular description of goods.—Hair-Tonic and Medicinal Scalp Treatment.

Claims use since on or about May 1, 1920.

Ser. No. 144,065. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK S. CARROLL, Asheville, N. C. Filed Feb. 26, 1921.

ORASEPS

Particular description of goods.—Antiseptic Mouth-Washes.

Claims use since Jan. 1, 1920.

Ser. No. 144,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL M. SOLOMON, Chicago, Ill. Filed Feb. 26, 1921.

Citrox

Particular description of goods.—Tooth-Paste.

Claims use since Dec. 1, 1918.

Ser. No. 144,149. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PORTER BAKING CO., Seattle, Wash., assignor to Creme-O-Toast Company, Seattle, Wash., a Corporation of Washington. Filed Feb. 28, 1921.

CREME-O-TOAST

No claim being made to the word "Toast" apart from that shown in the accompanying drawing.

Particular description of goods.—Sliced Prepared Toast in packages.

Claims use since Jan. 1, 1920.

Ser. No. 144,196. (CLASS 39. CLOTHING. TOBIAS KAPLAN, New York, N. Y. Filed Mar. 1, 1921.

Dexter

Particular description of goods.—Men's Dress-Shirts.

Claims use since Dec. 1, 1920.

Ser. No. 144,231. (CLASS 39. CLOTHING.) CAL HIRSCH & SONS MERCANTILE CO., St. Louis, Mo., and Los Angeles, Calif. Filed Mar. 2, 1921.

WARRIOR

Particular description of goods.—Puttees.

Claims use since July 1, 1920.

Ser. No. 144,257. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) B. L. SCHMIDT COMPANY, Davenport, Iowa. Filed Mar. 2, 1921.

INTERNAL GRINDER Micro

No claim is made to the words "Internal Grinder" apart from the mark shown by the drawing.

Particular description of goods.—Metal-Grinding Machines.

Claims use since March, 1920.

Ser. No. 143,984. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. DEDRICK, Indianapolis, Ind. Filed Feb. 24, 1921.

IM-PRO-HA-TO

Particular description of goods.—Hair-Tonic and Medicinal Scalp Treatment.
Claims use since on or about May 1, 1920.

Ser. No. 144,065. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK S. CARROLL, Asheville, N. C. Filed Feb. 26, 1921.

ORASEPS

Particular description of goods.— Antiseptic Mouth-Washes.
Claims use since Jan. 1, 1920.

Ser. No. 144,110. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL M. SOLOMON, Chicago, Ill. Filed Feb. 26, 1921.

Citrox

Particular description of goods.—Tooth-Paste.
Claims use since Dec. 1, 1918.

Ser. No. 144,149. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PORTER BAKING CO., Seattle, Wash., assignor to Creme-O-Toast Company, Seattle, Wash., a Corporation of Washington. Filed Feb. 28, 1921.

CREME-O-TOAST

No claim being made to the word "Toast" apart from that shown in the accompanying drawing.
Particular description of goods.—Sliced Prepared Toast in packages.
Claims use since Jan. 1, 1920.

Ser. No. 144,196. (CLASS 39. CLOTHING. TOBIAS KAPLAN, New York, N. Y. Filed Mar. 1, 1921.

Dexter

Particular description of goods.—Men's Dress-Shirts.
Claims use since Dec. 1, 1920.

Ser. No. 144,231. (CLASS 39. CLOTHING.) CAL HIRSCH & SONS MERCANTILE CO., St. Louis, Mo., and Los Angeles, Calif. Filed Mar. 2, 1921.

WARRIOR

Particular description of goods.—Puttees.
Claims use since July 1, 1920.

Ser. No. 144,257. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) B. L. SCHMIDT COMPANY, Davenport, Iowa. Filed Mar. 2, 1921.

INTERNAL GRINDER
Micro

No claim is made to the words "Internal Grinder" apart from the mark shown by the drawing.
Particular description of goods.—Metal-Grinding Machines.
Claims use since March, 1920.

Ser. No. 144,464. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MONARCH FOUNDRY Company, Stockton, Calif. Filed Mar. 8, 1921.

MONARCH

Particular description of goods.—Castings for Pumps and Pumping Plants.
Claims use since on or about Apr. 25, 1908.

Ser. No. 144,472. (CLASS 15. OILS AND GREASES.) PIERCE OIL CORPORATION, Richmond, Va., and New York, N. Y. Filed Mar. 8, 1921.

PIERCE OIL CORPORATION
PENNANT
OILS

The applicant makes no exclusive claim to the word "Oils" apart from the mark shown on the drawing.
Particular description of goods.—Petroleum Products Consisting of Gasolene, Kerosene, Lubricating-Oils, Lubricating-Greases, and Paraffin-Wax.
Claims use since September, 1918.

Ser. No. 144,564. (CLASS 37. PAPER AND STATIONERY. THE EDUCATIONAL SUPPLY COMPANY, Painesville, Ohio. Filed Mar. 10, 1921.

E·S·Co

Particular description of goods.—Typewriter-Paper, Foolscap and Legal-Cap Paper, School Composition or Essay Paper, and School Practice-Paper.
Claims use since Jan. 30, 1912.

Ser. No. 144,612. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE FIXEM MFG. CO., Detroit, Mich. Filed Mar. 11, 1921.

FIXEM

Particular description of goods.—A Preparation Used in the Treatment of Sore Feet.
Claims use since February, 1915.

Ser. No. 144,642. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SLEEPER & HARTLEY, INC., Worcester, Mass. Filed Mar. 11, 1921.

Sleeper & Hartley
TRADE MARK

The applicant disclaims the exclusive right to the use of the word "Trademark" apart from the mark as shown.
Particular description of goods.—Machinery—Namely, Spring Coiling and Winding Machines, Spring-Setting Machines, Spring-Grinding Machines, Spring-Hooking Machines, Spring-Knotting Machines, Wire Straightening and Cutting Machines, Tube-Straightening Machines, Music-Wire Straightening and Bundling Machines, Wire-Flattening Machines, Wire-Rolling Machines, Wire-Coiling Machines, Wire-Forming and Wire-Working Machines, Tungsten-Filament-Coiling Machines, Resistance-Coil-Winding Machines, Flexible-Shaft-Coiling Machines, Flexible-Casing Coilers, Flexible-Metallic-Tubing Coilers, Cable-Armoring Machines, Staple-Machines, Wire-Nail Machines, Nail-Die-Grinding Machines, Double-Point-Tack Machines, Swagers for Screw-Wire, Machines for Making Lock-Washers, Wire-Reeling Apparatus.
Claims use since Feb. 1, 1913.

Ser. No. 144,657. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AMERICAN BEARING & DIE CASTING CORPORATION, Indianapolis, Ind. Filed Mar. 12, 1921.



The words "Centrifugal Force" and "Bearings" and "American" are hereby disclaimed apart from the mark as shown..

Particular description of goods.—Babbitt-Lined Bearings.

Claims use since Jan. 10, 1921.

Ser. No. 144,685. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE Q. R. S. MUSIC COMPANY, Chicago, Ill. Filed Mar. 12, 1921.

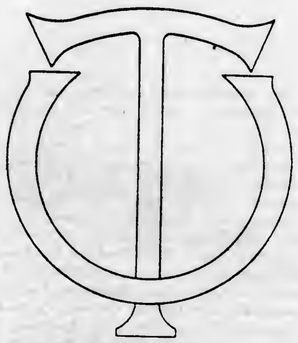
BlueBird

Consists of the words "Blue Bird."

Particular description of goods.—Perforated Note-Sheets for Player-Pianos.

Claims use since Jan. 20, 1921.

Ser. No. 144,693. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNDERWOOD TYPEWRITER CO., New York, N. Y. Filed Mar. 12, 1921.



Particular description of goods.—Typewriting-Machines and Typewriting-Machine Parts.

Claims use since about April, 1919.

Ser. No. 144,712. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) SAMUEL M. EINSTEIN, Attleboro, Mass. Filed Mar. 14, 1921.

MARATHON

Particular description of goods.—Jewelry for Personal Adornment—Namely, Ornamental Hairpins, Ornamental Clasp-Pins, Pin-Stems, Pin-Joints, Pin-Catches, Ear Ornaments, Finger-Rings, Key-Rings, Chain-Fastening Rings, Snap-Fasteners, Neck-Chains, Key-Chains, Watch-Chains, Bracelet-Chains, Cuff-Links, Cuff-Buttons, Collar-Buttons, Ornaments for Sautoire-Chains, Pendants, Card-Cases, Handles for Knives, Belt-Buckles, Fobs, Pencil-Casings, Jewel-Cases, Ring-Boxes, Vanity-Cases, Collar-Holders, Lingerie-Clasps, and Cigarette-Cases, All of Which are Made of or Plated with Precious Metal.

Claims use since January, 1914.

Ser. No. 144,721. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARFUMERIE HOUBIGANT, Paris, France. Filed Mar. 14, 1921.



Particular description of goods.—Face and Toilet Powder.

Claims use since Nov. 12, 1920.

Ser. No. 144,759. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) WOODS & CHATELLIER, INC., New York, N. Y. Filed Mar. 14, 1921.

KAP.
FLASK

Applicant disclaims any exclusive right to the word "Flask" apart from the mark shown on the drawing.

Particular description of goods.—Flasks, Particularly Pocket-Flasks, Made of Gold, Silver, Gold and Silver, and

Silver and Nickel, and Also Flasks Made of Pewter or other Metals in Combination with Copper or Nickel and Plated with Gold or Silver Metals.

Claims use since Feb. 20, 1921.

Ser. No. 144,777. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HATTIE JONES, St. Louis, Mo. Filed Mar. 15, 1921.

JOPA

Particular description of goods.—A Hair-Grower.

Claims use since Mar. 1, 1919.

Ser. No. 144,796. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. J. ARCHIBALD CO. INC., New York, N. Y. Filed Mar. 16, 1921.



No trade-mark claim is herein made to the words "Pure Insect Powder" *per se.*

Particular description of goods.—Insect-Powder.

Claims use since about July 15, 1920.

Ser. No. 144,824. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. STEWART MILLER, Derby, Conn. Filed Mar. 16, 1921.

HAR-VES-CANE

Particular description of goods.—Sugar-Cane-Cutting Machinery.

Claims use since June 1, 1920.

Ser. No. 144,831. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM S. MILLIKEN, Brooklyn, N. Y. Filed Mar. 16, 1921.



Particular description of goods.—Candy.

Claims use since June 9, 1920.

Ser. No. 144,961. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JACK E. BROWN, Colton, Calif. Filed Mar. 19, 1921.



Particular description of goods.—A Washing-Powder.

Claims use since Feb. 10, 1920.

Ser. No. 144,970. (CLASS 38. PRINTS AND PUBLICATIONS.) FREDERICK E. HAGGVIST, Boston, Mass. Filed Mar. 19, 1921.

AERIAL PHOTOGRAPHIC
APC
COMPANY OF AMERICA
BOSTON

The word "Boston" appearing on the drawing, being geographical, is disclaimed apart from the mark shown.

Particular description of goods.—Photographs.

Claims use since Jan. 1, 1921.

Ser. No. 144,974. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) L. H. LEWIS COMPANY, Dallas, Tex. Filed Mar. 19, 1921.

LU-KO

Particular description of goods.—Cuff-Buttons, Cuff-Links, Collar-Buttons, Tie-Clasps, Bar-Pins, Brooches, and Watch-Chains Made of, Plated with, or Ornamented with Precious Metal and Jewels.
Claims use since about Sept. 21, 1920.

Ser. No. 145,058. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE EDMOND MILLS, Edmond, R. I. Filed Mar. 22, 1921.

Two in One

Particular description of goods.—Cotton Bed-Blankets.
Claims use since Jan. 1, 1919.

Ser. No. 145,059. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) EMERSON PHONOGRAPH COMPANY, INC., New York, N. Y. Filed Mar. 22, 1921.

Regal

Particular description of goods.—Phonograph-Records.
Claims use since about Feb. 1, 1921.

Ser. No. 145,070. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. G. KREBS, Lorain, Ohio. Filed Mar. 22, 1921.

NORTH

Particular description of goods.—A Hair-Restorative.
Claims use since Dec. 1, 1918.

Ser. No. 145,073. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUVENIA C. MCDONALD, Hartselle, Ala. Filed Mar. 22, 1921.

Coro Zephro

Particular description of goods.—A Hair-Tonic.
Claims use since December, 1914.

Ser. No. 145,097. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLACKMAN STOCK REMEDY CO., Chattanooga, Tenn. Filed Mar. 23, 1921.

LICK-A-BRIK

Particular description of goods.—A Medicated Salt Brick for Live Stock.
Claims use since Dec. 6, 1920.

Ser. No. 145,103. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FOREST ELECTRIC CO., Newark, N. J. Filed Mar. 23, 1921.

PANELTEST

Particular description of goods.—Electric-Battery Testers.
Claims use since June 11, 1920.

Ser. No. 145,129. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAWYER CRYSTAL BLUE COMPANY, Boston, Mass. Filed Mar. 23, 1921.

SEPTOLA

Particular description of goods.—A Disinfecting and Cleansing Compound.
Claims use since on or about Sept. 1, 1913.

Ser. No. 145,137. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. E. TRICHEL, Shreveport, La. Filed Mar. 23, 1921.

BUZZNOMORE

Particular description of goods.—A Disinfectant, Germ-Killer, and Odor-Destroyer, a Mosquito-Lotion, and a Preparation for Use in Destroying Bedbugs, Lice, Mites, and Cockroaches.
Claims use since Jan. 6, 1921.

Ser. No. 145,141. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WHITEFORD E. MCMILLAN, Chicago, Ill. Filed Mar. 23, 1921.

KLEEN SWEET

Particular description of goods.—Deodorizers.
Claims use since Feb. 1, 1921.

Ser. No. 145,145. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARL J. WILLENBORG, Jr., Hoboken, N. J. Filed Mar. 23, 1921.

TOSCA

Particular description of goods.—Talking-Machines and Parts Thereof.
Claims use since Mar. 14, 1921.

Ser. No. 145,159. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE FELLES, Cleveland, Ohio. Filed Mar. 24, 1921.

PANAKIA

Particular description of goods.—Liquid Preparation for the Treatment of Disorders of the Stomach, Constipation, and Cleansing the Blood.
Claims use since Aug. 15, 1919.

Ser. No. 145,164. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRAL SOAP CO., INC., Brooklyn, N. Y. Filed Mar. 24, 1921.

HASOCO

Particular description of goods.—Shampoo.
Claims use since Apr. 10, 1920.

Ser. No. 145,256. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAWRENCE A. COLLINS, Los Angeles, Calif. Filed Mar. 26, 1921.

LAC-LAX

Particular description of goods.—A Laxative.
Claims use since about Mar. 3, 1921.

Ser. No. 145,263. (CLASS 15. OILS AND GREASES.) GEARO MFG. CO., Quincy, Ill. Filed Mar. 26, 1921.

GMC GREASE METALLIC

No claim being made to the words "Grease" and "Metallic" apart from the mark shown in the drawing.
Particular description of goods.—Lubricating-Greases.
Claims use since Jan. 1, 1921.

Ser. No. 145,293. (CLASS 39. CLOTHING.) ROSENTHAL & TARGOFF, INC., New York, N. Y. Filed Mar. 26, 1921.

MURIEL DRESSES

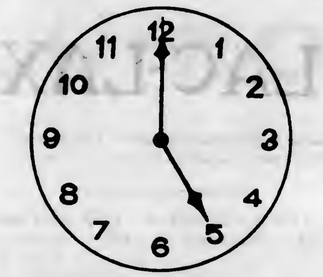
The applicant disclaims the exclusive use of the word "Dresses."
Particular description of goods.—Dresses, Cloaks, and Suits.
Claims use since Jan. 1, 1914.

Ser. No. 145,306. (CLASS 39. CLOTHING.) AMERICAN LADY CORSET CO., Detroit, Mich. Filed Mar. 28, 1921.

PLI-O-TOP

Particular description of goods.—Corsets and Brassières.
Claims use since Jan. 2, 1921.

Ser. No. 145,383. (CLASS 37. PAPER AND STATIONERY.) GLENN A. GRAHAM, Lapeer, Mich. Filed Mar. 28, 1921.



Time is money

Particular description of goods.—Blank Forms Composing an Efficiency-Service System for Dentists.
Claims use since Jan. 1, 1921.

Ser. No. 145,384. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HOOTCH MFG. CO., Fort Wayne, Ind. Filed Mar. 28, 1921.

"HOOTCH"

Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Jan. 20, 1921.

Ser. No. 145,383. (CLASS 39. CLOTHING.) ZEITEL & ZUCKERBRAUN, New York, N. Y. Filed Mar. 28, 1921.

RAJAH

Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Feb. 2, 1921.

Ser. No. 145,404. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOONY CREEK COAL COMPANY, Peevee, Ky., and Detroit, Mich. Filed Mar. 29, 1921.

FIRE KING

Particular description of goods.—Coal.
Claims use since Feb. 1, 1921.

Ser. No. 145,405. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOONY CREEK COAL COMPANY, Peevee, Ky., and Detroit, Mich. Filed Mar. 29, 1921.

DIXIE DIAMOND

Particular description of goods.—Coal.
Claims use since Feb. 1, 1921.

Ser. No. 145,453. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL W. HERSHEY, York, Pa. Filed Mar. 30, 1921. Under ten-year proviso.

JUST RIGHT

Particular description of goods.—Wheat-Flour.
Claims use since 1889.

Ser. No. 145,466. (CLASS 39. CLOTHING.) PINCUS LESSER, New York, N. Y. Filed Mar. 30, 1921.

LA MERVEILLE

Consisting of the words "La Merveille."
Particular description of goods.—Ladies' Shirtwaists.
Claims use since Jan. 15, 1921.

Ser. No. 145,491. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE ARTO CO., Orange, N. J. Filed Mar. 31, 1921.



Particular description of goods.—Talking-Machine Records.
Claims use since Jan. 1, 1921.

Ser. No. 145,498. (CLASS 39. CLOTHING.) DAVIS-HALE-RANSOM CO., INC., Nashville, Tenn. Filed Mar. 31, 1921.

Fashionwoven

Particular description of goods.—Hosiery.
Claims use since Mar. 1, 1921.

Ser. No. 145,543. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ABBOTT LABORATORIES, Chicago, Ill. Filed Apr. 1, 1921.

BUTYN

Particular description of goods.—Anesthetic Compound.
Claims use since on or about Mar. 28, 1921.

Ser. No. 145,551. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE CONVERTEX CORPORATION, New York, N. Y. Filed Apr. 1, 1921.

Printswiss

Particular description of goods.—Printed and Woven Cotton Piece Fabrics and Cotton Piece Textiles.
Claims use since Apr. 1, 1920.

Ser. No. 145,580. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. E. OSBORNE, Greenwood, Miss. Filed Apr. 1, 1921.

IN-SEC-TOL

Particular description of goods.—An Insecticide, Germicide, and Antiseptic.
Claims use since April, 1919.

Ser. No. 145,592. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUDCO DRUG CO., Portland, Oreg. Filed Apr. 1, 1921.

KEROLATUM

Particular description of goods.—An External and Internal Medicinal Preparation for Treatment of Sore Throat, Sore Chest, Chilblains, Burns, Muscular Rheumatism, Nasal Catarrh, Coughs, Colds, Croup, and Hay-Fever.
Claims use since Jan. 1, 1921.

Ser. No. 145,605. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES BOUTSELIS, Collinsville, Mass. Filed Apr. 2, 1921.

ZOTHRIX

Particular description of goods.—A Preparation for Use in Curing and Preventing Dandruff and for Restoring the Hair and a Liquid Shampoo and a Cold-Cream.
Claims use since Jan. 12, 1920.

Ser. No. 145,610. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. P. CLEARWATER, Hallowell, Me. Filed Apr. 2, 1921.

SYSTOXEM

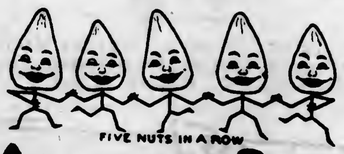
Particular description of goods.—Pharmaceutical Preparations as a Treatment for System Weakness, Such as Nervousness, Run-Down Condition, Simple Anemia, Lack of Strength and Endurance, Also for Relieving Constipation and for Eliminating Poisonous Toxins from Intestines, Blood, and System.
Claims use since on or about Nov. 1, 1918.

Ser. No. 145,611. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. P. CLEARWATER, Hallowell, Me. Filed Apr. 2, 1921.

VITOLA

Particular description of goods.—Pharmaceutical Preparations as a Treatment for System Weakness, Such as Simple Anemia, Nervousness, Run-Down Condition, Lack of Strength and Power of Endurance, Also for Regulating Bowels and Eliminating Poisonous Toxins from Intestines, Blood, and System.
Claims use since on or about Dec. 5, 1912.

Ser. No. 145,681. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed Apr. 4, 1921.



Particular description of goods.—Chocolate Candy.
Claims use since Mar. 1, 1921.

Ser. No. 145,701. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHERN NEW YORK MILK CORP'N, Pierrepont Manor, N. Y. Filed Apr. 4, 1921.



Particular description of goods.—Condensed Milk.
Claims use since Jan. 27, 1921.

Ser. No. 145,715. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) HUGO REISINGER, New York, N. Y. Filed Apr. 4, 1921.

OCELIT

Particular description of goods.—Electrical-Resistance Elements.
Claims use since Mar. 14, 1921.

Ser. No. 145,723. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) DANIEL D. SIMMONS, Minot, N. D. Filed Apr. 4, 1921.

MINOTA

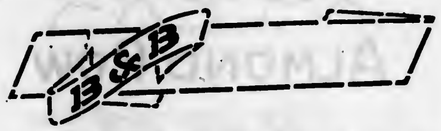
Particular description of goods.—Field-Seeds.
Claims use since Mar. 15, 1921.

Ser. No. 145,750. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JULIUS KAYSER & Co., New York, N. Y. Filed Apr. 5, 1921. Under ten-year proviso.

ITALIAN

Particular description of goods.—Silk Piece Goods.
Claims use since Feb. 1, 1895.

Ser. No. 145,767. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ELBERT I. BOWN, Huron, S. D. Filed Apr. 6, 1921.



Particular description of goods.—Mud-Jack for Automobiles.
Claims use since Oct. 21, 1920.

Ser. No. 145,768. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COVERT GEAR COMPANY, Lockport, N. Y. Filed Apr. 6, 1921.

COVERT

Particular description of goods.—Transmission-Gearings and Parts Thereof.
Claims use since 1910.

Ser. No. 145,820. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) CIRO PEARLS LTD., London, England. Filed Apr. 7, 1921.



Particular description of goods.—Imitation Pearls and Reconstructed Gems.
Claims use since Sept. 15, 1916.

Ser. No. 145,839. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE MANHATTAN RUBBER MFG. CO., Passaic, N. J. Filed Apr. 7, 1921.

GRENADIER

Particular description of goods.—Rubber and Canvas Belts and Rubber Hose.
Claims use since about the month of May, 1919.

Ser. No. 145,875. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITY MILLS COMPANY, Columbus, Ga. Filed Apr. 8, 1921.

CIMCO

Particular description of goods.—Wheat-Flour, and Particularly Self-Rising Wheat-Flour.
Claims use since Feb. 1, 1921.

Ser. No. 145,877. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CANNON MFG. CO., Kannapolis, N. C. Filed Apr. 8, 1921.

CANNON

Particular description of goods.—Fabric Towels.
Claims use since Jan. 19, 1921.

Ser. No. 145,939. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWARD W. COON, Philadelphia, Pa. Filed Apr. 9, 1921.

DAN-DEE

Particular description of goods.—Cheese.
Claims use since Jan. 15, 1921.

Ser. No. 146,008. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FISHER FLOURING MILLS COMPANY, Seattle, Wash. Filed Apr. 11, 1921.

EL SOL

Particular description of goods.—Wheat-Flour.
Claims use since Jan. 27, 1921.

Ser. No. 146,013. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WEST MILL & ELEVATOR Co., Amarillo, Tex. Filed Apr. 11, 1921.

Homeseeker

Particular description of goods.—Wheat-Flour.
Claims use since December, 1920.

Ser. No. 146,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WEST MILL & ELEVATOR Co., Amarillo, Tex. Filed Apr. 11, 1921.

Amaryllis

Particular description of goods.—Wheat-Flour.
Claims use since December, 1920.

Ser. No. 146,161. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) B. J. S. SPECIALTY COMPANY, New York, N. Y. Filed Apr. 14, 1921.

LETERAIN

Particular description of goods.—Prepared Cloths for Use on Windshields of Vehicles and other Transparencies to Prevent the Accumulation of Rain and Moisture.
Claims use since about Mar. 1, 1921.

Ser. No. 146,183. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PYRODENTO COMPANY, Baltimore, Md. Filed Apr. 14, 1921.

Pyrol

Particular description of goods.—A Liquid Antiseptic for the Treatment of Pyorrhea Alveolaris (Rigg's Disease) and for Sore Throat, Cuts, Burns, and Diseases of the Skin.
Claims use since Mar. 31, 1921.

Ser. No. 146,234. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) POTTER & BUFFINTON Co., Providence, R. I. Filed Apr. 15, 1921.

KING SOLOMON

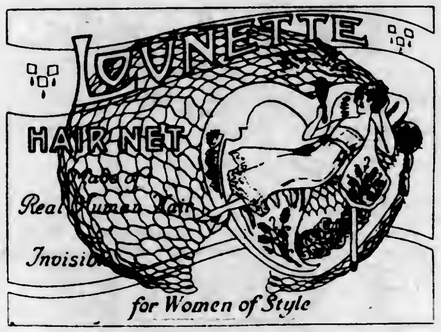
Particular description of goods.—Charms for Personal Wear Which are Made of or Plated with Precious Metal.
Claims use since Apr. 1, 1921.

Ser. No. 146,381. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK A. MEIGHAN, Grand Rapids, Mich. Filed Apr. 19, 1921.

OSO WHITE

Particular description of goods.—Soaps.
Claims use since Sept. 1, 1920.

Ser. No. 146,448. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) METROPOLITAN HAIR GOODS CO., New York, N. Y. Filed Apr. 20, 1921.



The representation of the female figure being fanciful and no claim being made to the exclusive use of the words "Hair Net, Made of Real Human Hair, Invisible, For Women of Style" nor to the pictorial representation of a hair-net apart from the mark as shown on the drawing.

Particular description of goods.—Hair-Nets.
Claims use since Apr. 11, 1921.

Ser. No. 146,705. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELI HELLER, New York, N. Y. Filed Apr. 25, 1921.



Particular description of goods.—Piece Goods of Cotton and Piece Goods of Muslin.
Claims use since Feb. 15, 1921.

Ser. No. 146,785. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WYMAN, PARTRIDGE & CO., Minneapolis, Minn. Filed Apr. 26, 1921.

SENTINEL

Particular description of goods.—Cotton Piece Goods—Namely, Cambrics, Nainsooks, and Wide Sheetings—and Sheets and Pillow-Cases.
Claims use since July, 1915.

Ser. No. 146,815. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CARSON PIRIE SCOTT & CO., Chicago, Ill. Filed Apr. 27, 1921.

DEFIANCE

Particular description of goods.—Cotton-Bats.
Claims use since about 1892.

Ser. No. 146,928. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) BERNARD RICE'S SONS, New York, N. Y. Filed Apr. 28, 1921.

L'Aiglon

Particular description of goods.—Sterling and Plated Flat and Hollow Silverware and Articles of Jewelry for Personal Wear, Not Including Watches, Consisting of Belt-Buckles, Girdles, and the Like.
Claims use since on or about Apr. 14, 1921.

Ser. No. 147,022. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. S. HALL & CO. INC., Jersey City, N. J. Filed Apr. 30, 1921.



Particular description of goods.—Laces, Veils, Nets, Tricot-Cloth, and Milanese Cloth in the Piece.
Claims use since Apr. 1, 1921.

Ser. No. 147,046. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) PHOEL & SCHALLER, New York, N. Y. Filed Apr. 30, 1921.



Particular description of goods.—Finger-Rings and other Articles of Jewelry of Precious Metal, Not Including Watches.
Claims use since about Feb. 21, 1921.

Ser. No. 147,150. (CLASS 38. PRINTS AND PUBLICATIONS.) NORA T. BAKER, Columbus, Ohio. Filed May 3, 1921.

AUTO NEWS

Particular description of goods.—A Monthly Magazine.
Claims use since Feb. 15, 1920.

Ser. No. 147,154. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WALTER BUNDY COLE, New York, N. Y. Filed May 3, 1921.



Particular description of goods.—Taxicabs and Pleasure-Automobiles.
Claims use since Mar. 13, 1921.

Ser. No. 147,208. (CLASS 38. PRINTS AND PUBLICATIONS.) EDGAR ALLAN MOSS, Marion, Ind. Filed May 4, 1921.

THE OFFICE CAT

Particular description of goods.—For Use on Newspaper-Columns.
Claims use since Aug. 1, 1918.

Ser. No. 147,270. (CLASS 38. PRINTS AND PUBLICATIONS.) MYRON ZOBEL, Los Angeles, Calif. Filed May 5, 1921.

Made Where the Movies are Made
SCREENLAND

No claim is made to the words "Made Where the Movies are Made" apart from the mark shown.
Particular description of goods.—The Title of a Magazine Published and Sold Monthly.
Claims use since Aug. 5, 1920.

Ser. No. 147,284. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GODFREY M. GILBERT, Chicago, Ill. Filed May 6, 1921.

Willsbury

Particular description of goods.—Talking-Machines and Pianos.
Claims use since Apr. 11, 1921.

Ser. No. 147,455. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE PACKARD PIANO COMPANY, Fort Wayne, Ind. Filed May 9, 1921.



Particular description of goods.—Upright, Grand, Player, and Reproducing Pianos.
Claims use since November, 1893.

Ser. No. 147,489. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WORUMBO MANUFACTURING COMPANY, Bath, Me. Filed May 9, 1921.

BENGALORE

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Mar. 10, 1921.

Ser. No. 147,600. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed May 12, 1921.



Particular description of goods.—Snap-Fasteners.
Claims use since Mar. 3, 1921.

Ser. No. 147,635. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MOSSTWIN COMPANY, New York, N. Y. Filed May 12, 1921.

AUTOSPRING

Particular description of goods.—Snap-Fasteners.
Claims use since August, 1919.

Ser. No. 147,640. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) RAMSPRING BUMPER CO., Chicago, Ill. Filed May 12, 1921.

RAMSPRING

Particular description of goods.—Automobile-Bumpers.
Claims use since Apr. 15, 1921.

Ser. No. 147,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE H-O CEREAL COMPANY, INC., Buffalo, N. Y. Filed May 13, 1921.

H-O

Particular description of goods.—Animal, Bird, and Poultry Feeds.
Claims use since 1888.

Ser. No. 147,767. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DOGNIN ET CIE., Lyon, France. Filed May 16, 1921.

MARÉCHALE

Particular description of goods.—Tulles and Laces in Pieces, Made of Silk, Linen, Cotton, and China-Grass.
Claims use since Mar. 28, 1913.

Ser. No. 147,823. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed May 17, 1921.

TOUAREG

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about Nov. 15, 1920.

Ser. No. 147,839. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed May 17, 1921.



The picture in the drawing being fanciful.
Particular description of goods.—Hair-Nets.
Claims use since Jan. 1, 1916.

Ser. No. 147,840. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed May 17, 1921.

Nymco

Particular description of goods.—Hair-Nets.
Claims use since Jan. 1, 1909.

Ser. No. 147,841. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed May 17, 1921.

AMERICAN BEAUTY

Particular description of goods.—Snap-Fasteners.
Claims use since Apr. 27, 1921.

Ser. No. 148,002. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TAYLOR, CLAPP & BEALL, New York, N. Y. Filed May 20, 1921.

GAVIOTA



Particular description of goods.—Cotton Sheeting in the Piece.
Claims use since Apr. 7, 1921.

Ser. No. 148,057. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BJUR BROS. INCORPORATED, New York, N. Y. Filed May 23, 1921.

VELVETOUCH

Particular description of goods.—Pianos and Player-Pianos.
Claims use since Feb. 1, 1921.

Ser. No. 148,594. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ANNA BOULLE GUERIN, New York, N. Y. Filed June 3, 1921.

"POPPY LADY FROM FRANCE"

Particular description of goods.—A Boutonnière, Badge, Insignia, or Decoration Comprising an Artificial Poppy-Flower.
Claims use since on or about Apr. 1, 1919.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 12, 1921.

144,543. PISTON-RINGS. THE AMERICAN HAMMERED PISTON RING COMPANY, Baltimore, Md.
Filed June 8, 1920. Serial No. 133,392. PUBLISHED MARCH 29, 1921.

144,544. SWEET CHOCOLATE. WALTER BAKER & COMPANY, LTD., Boston, Mass.
Filed June 10, 1920. Serial No. 133,515. PUBLISHED MARCH 29, 1921.

144,545. ASPHALTUM. THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa.
Filed September 20, 1920. Serial No. 137,360. PUBLISHED MARCH 29, 1921.

144,546. STOMACH REMEDY. MARTIN BAREYK, Chicago, Ill.
Filed October 2, 1920. Serial No. 137,824. PUBLISHED MARCH 22, 1921.

144,547. EVAPORATED FRUITS. BATES & ABBOTT, Boston, Mass.
Filed December 13, 1920. Serial No. 140,984. PUBLISHED MARCH 22, 1921.

144,548. WHEAT-FLOUR. BERNET, CRAFT & KAUFFMAN MILLING CO., St. Louis, Mo.
Filed January 3, 1921. Serial No. 141,750. PUBLISHED MARCH 15, 1921.

144,549. CRANBERRY JELLY. ENOCH F. BILLS, Bordentown, N. J.
Filed December 10, 1920. Serial No. 140,858. PUBLISHED MARCH 22, 1921.

144,550. DOLLS AND DOLL-DRESS OUTFITS. CHARLES BLOOM, INC., New York, N. Y.
Filed September 8, 1920. Serial No. 136,927. PUBLISHED MARCH 22, 1921.

144,551. CERTAIN NAMED ELECTRICAL APPARATUS. BLUE BIRD MANUFACTURING COMPANY, St. Louis, Mo., assignor to The Davis Sewing Machine Company, Dayton, Ohio, a Corporation of Delaware.
Filed October 31, 1919. Serial No. 124,382. PUBLISHED MARCH 29, 1921.

144,552. MEDICINAL SALVE TO BE USED FOR THE TREATMENT OF PILES. WALTER MILTON BOWMAN, Cincinnati, Ohio.
Filed September 18, 1920. Serial No. 137,306. PUBLISHED MARCH 15, 1921.

144,553. CANNED FRUITS. CULLEN BRYANT, Portland, Oreg.
Filed December 21, 1920. Serial No. 141,354. PUBLISHED MARCH 22, 1921.

144,554. CROUP-SALVE, LAXATIVE PILLS, COUGH MEDICINE, KIDNEY-PILLS, KIDNEY, LIVER, AND BLOOD TEA. LOUIS A. BURESCH, Chicago, Ill.
Filed September 16, 1920. Serial No. 137,255. PUBLISHED MARCH 22, 1921.

144,555. CANNED FRUITS AND CANNED VEGETABLES. CALIFORNIA GROWERS ASSOCIATION, INC., Los Angeles, Calif.
Filed September 15, 1920. Serial No. 137,199. PUBLISHED MARCH 22, 1921.

144,556. LINIMENT FOR ECZEMA. J. B. CARLSBERGH, Seattle, Wash.
Filed September 22, 1920. Serial No. 137,446. PUBLISHED MARCH 15, 1921.

144,557. LINIMENT FOR EXTERNAL APPLICATION FOR THE RELIEF OF RHEUMATISM, NEURALGIA, AND LIKE MUSCULAR PAINS. FRANCIS L. CASE, Rapid City, S. D.
Filed August 31, 1920. Serial No. 136,670. PUBLISHED MARCH 29, 1921.

144,558. HAIR-TONIC. H. A. CASSEBEER, INC., New York, N. Y.
Filed September 29, 1920. Serial No. 137,727. PUBLISHED MARCH 29, 1921.

144,559. SALVE. JAMES H. COLE, Knoxville, Tenn.
Filed October 8, 1920. Serial No. 138,085. PUBLISHED MARCH 29, 1921.

144,560. PHONOGRAPHIC SOUND RECORDING AND REPRODUCING MACHINES, PARTS FOR SUCH MACHINES, AND PHONOGRAPHIC SOUND-RECORDS. COLUMBIA GRAPHOPHONE MANUFACTURING COMPANY, Bridgeport, Conn.
Filed January 15, 1921. Serial No. 142,284. PUBLISHED APRIL 12, 1921.

144,561. CERTAIN NAMED TOILET PREPARATIONS. THE CROWN CHEMICAL COMPANY, Indianapolis, Ind.
Filed August 28, 1920. Serial No. 136,583. PUBLISHED MARCH 29, 1921.

144,562. ELECTRIC HEATING DEVICES, PARTICULARLY CIGAR-LIGHTERS AND WATER-HEATERS. THE DURALECTRIC CORPORATION, Jamestown, N. Y.
Filed December 2, 1920. Serial No. 140,524. PUBLISHED MARCH 1, 1921.

144,563. STEREOPTICONS. EDOSCOPE MFG. CO., Plainfield, N. J.
Filed November 19, 1920. Serial No. 139,855. PUBLISHED MARCH 22, 1921.

144,564. RESISTANCE WIRES AND RIBBONS. THE ELECTRICAL ALLOY COMPANY, Morristown, N. J.
Filed September 24, 1920. Serial No. 137,572. PUBLISHED MARCH 22, 1921.

144,565. ELECTRIC TACHOMETERS AND ELECTRIC METERS. THE ELECTRIC TACHOMETER CORPORATION, Philadelphia, Pa.
Filed July 30, 1920. Serial No. 135,597. PUBLISHED MARCH 29, 1921.

144,566. ELECTRIC-LIGHTING FIXTURES. PERCY I. ELIAS, New York, N. Y.
Filed December 14, 1920. Serial No. 141,065. PUBLISHED MARCH 22, 1921.

144,567. EGGS. MARY E. EMMONS, New York, N. Y.
Filed September 18, 1920. Serial No. 137,315. PUBLISHED MARCH 29, 1921.

144,568. CERTAIN NAMED MEDICINAL TONIC. DR. PETER FAHRNEY & SONS CO., Chicago, Ill.
Filed September 11, 1920. Serial No. 137,079. PUBLISHED MARCH 29, 1921.

144,569. ELECTRIC DRILLS, GRINDERS, MAGNET-CHUCKS, FARM LIGHTING PLANTS, COMBINATION ELECTRIC DRILL AND VALVE-GRINDER. THE FAIRBANKS CO., New York, N. Y.
Filed January 14, 1921. Serial No. 142,251. PUBLISHED MARCH 22, 1921.

144,570. CERTAIN NAMED MOTORCYCLE ACCESSORIES. FENTRESS-NEWTON MFG. CO., Detroit, Mich.
Filed December 6, 1920. Serial No. 140,640. PUBLISHED MARCH 15, 1921.

144,571. SOAP AND SOAP FLAKES. FITZPATRICK BROS., Chicago, Ill.
Filed January 22, 1921. Serial No. 142,613. PUBLISHED MARCH 22, 1921.

144,572. CERTAIN NAMED MEDICINAL PREPARATIONS. FRIEDRICH-FRIEDRICH CHEMICAL COMPANY, Philadelphia, Pa.
Filed August 30, 1920. Serial No. 136,624. PUBLISHED MARCH 22, 1921.

144,573. GERMICIDES, INSECTICIDES, AND DISINFECTANTS. GERM-A-LENE MANUFACTURING COMPANY, Los Angeles, Calif.
Filed October 19, 1920. Serial No. 138,485. PUBLISHED MARCH 29, 1921.

144,574. PREPARATION FOR THE SCALP—NAMELY, HAIR-TONIC AND LIQUID SHAMPOO. THE GLOVER COMPANY, Los Angeles, Calif.
Filed September 21, 1920. Serial No. 137,413. PUBLISHED MARCH 22, 1921.

144,575. BATTERY-JARS MADE OF HARD OR SEMI-HARD RUBBER OR HAVING RUBBER INCORPORATED THEREIN. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed September 22, 1920. Serial No. 137,474. PUBLISHED MARCH 1, 1921.

144,576. PLAYER-PIANOS. GULBRANSEN-DICKINSON COMPANY, Chicago, Ill.
Filed December 4, 1920. Serial No. 140,590. PUBLISHED MARCH 22, 1921.

144,577. PLAYER-PIANOS. GULBRANSEN-DICKINSON COMPANY, Chicago, Ill.
Filed December 4, 1920. Serial No. 140,592. PUBLISHED MARCH 22, 1921.

144,578. INSULATED WIRES AND CABLES AND CONDUITS FOR ELECTRIC WIRES AND CABLES. HAZARD MANUFACTURING COMPANY, Wilkes-Barre, Pa., and New York, N. Y.
Filed November 26, 1920. Serial No. 140,177. PUBLISHED MARCH 22, 1921.

144,579. PREPARED ROOFING ORDINARILY SOLD IN ROLLS. THE HEPPES-NELSON ROOFING COMPANY, Chicago, Ill.
Filed April 24, 1920. Serial No. 131,572. PUBLISHED MARCH 29, 1921.

144,580. PREPARED ROOFING ORDINARILY SOLD IN ROLLS. THE HEPPES-NELSON ROOFING COMPANY, Chicago, Ill.
Filed April 24, 1920. Serial No. 131,579. PUBLISHED MARCH 29, 1921.

144,581. BREATH-PERFUME LOZENGES. EDWARD J. HOADLEY, Hartford, Conn.
Filed March 28, 1921. Serial No. 145,335. PUBLISHED APRIL 26, 1921.

144,582. PHONOGRAPHS. HOMESTEAD PHONOGRAPH & VIOLIN MANUFACTURING COMPANY, Homestead, Pa.
Filed December 10, 1920. Serial No. 140,892. PUBLISHED MARCH 22, 1921.

144,583. SOAP. RICHARD HUDNUT, New York, N. Y.
Filed January 13, 1921. Serial No. 142,214. PUBLISHED MARCH 15, 1921.

144,584. CARS—NAMELY, DUMPING-CARS, TIP-CARS, CHARGING-CARS, LADLE-CARS—AND COUPLINGS. C. W. HUNT COMPANY INC., West New Brighton, N. Y.
Filed September 3, 1920. Serial No. 136,798. PUBLISHED MARCH 15, 1921.

144,585. CERTAIN KNIVES, EDGE-TOOLS, AND HANDLES. HYDE MANUFACTURING COMPANY, Southbridge, Mass.
Filed September 2, 1920. Serial No. 136,752. PUBLISHED MARCH 29, 1921.

144,586. CERTAIN AGRICULTURAL IMPLEMENTS. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed October 2, 1920. Serial No. 137,830. PUBLISHED MARCH 22, 1921.

144,587. CERTAIN AGRICULTURAL IMPLEMENTS. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed October 2, 1920. Serial No. 137,831. PUBLISHED MARCH 22, 1921.

144,588. ELECTRIC INSULATORS. JEFFERY-DEWITT INSULATOR COMPANY, Kenova, W. Va.
Filed November 29, 1920. Serial No. 140,387. PUBLISHED MARCH 22, 1921.

144,589. CERTAIN NAMED ROOFING-CEMENTS. LEONIDAS D. JOHNSON, Richmond, Va.
Filed September 20, 1920. Serial No. 137,733. PUBLISHED MARCH 15, 1921.

144,590. DISPLAY-RACKS. JOHN M. KAPPUS, Cleveland, Ohio.
Filed September 30, 1920. Serial No. 137,781. PUBLISHED MARCH 29, 1921.

144,591. GENERAL TONIC. CHESTER KENT & CO., INC., Boston, Mass.
Filed August 16, 1920. Serial No. 136,159. PUBLISHED MARCH 29, 1921.

144,592. CERTAIN NAMED INSULATING-SHEETING. KEYSTONE HAIR INSULATOR COMPANY, Pittsburgh, Pa.
Filed January 12, 1921. Serial No. 142,151. PUBLISHED MARCH 22, 1921.

144,593. AXLES AND AXLE PARTS OF POWER-DRIVEN VEHICLES. KRIKWEN MULTIPOWER AXLE CO. INC., Seattle, Wash.
Filed January 11, 1921. Serial No. 142,082. PUBLISHED MARCH 15, 1921.

144,594. PRINTING-PAPERS. KNIGHT, ALLEN & CLARK, Boston, Mass.
Filed July 28, 1920. Serial No. 135,330. PUBLISHED MARCH 22, 1921.

144,595. CHINA AND PORCELAIN WARE, BUT NOT INCLUDING ANY ARTICLE OF THE FORM OR DESIGN ILLUSTRATED BY THE MARK. THE EDWIN M. KNOWLES CHINA CO., East Liverpool, Ohio.
Filed May 20, 1920. Serial No. 132,686. PUBLISHED MARCH 29, 1921.

144,596. PASTE COLORS FOR FOODS AND INGREDIENTS. H. KOHNSTAMM & CO., New York, N. Y.
Filed September 25, 1920. Serial No. 137,618. PUBLISHED MARCH 15, 1921.

144,597. TABLE-SYRUPS. LANGHOFF BROS. CO., New Orleans, La.
Filed November 23, 1920. Serial No. 140,043. PUBLISHED MARCH 22, 1921.

144,598. CERTAIN NAMED PACKINGS. W. CARY LEWIS, Chicago, Ill.
Filed May 15, 1920. Serial No. 132,474. PUBLISHED MARCH 29, 1921.

144,599. MEDICINAL PREPARATION FOR DIARRHEA AND OTHER DISEASES OF THE BOWELS. SAM LOIACANO, Orange, Tex.
Filed September 29, 1920. Serial No. 137,738. PUBLISHED MARCH 15, 1921.

144,600. PORTLAND CEMENT. LOUISVILLE CEMENT COMPANY, Louisville, Ky.
Filed January 13, 1921. Serial No. 142,217. PUBLISHED MARCH 22, 1921.

144,601. CLEANING AND POLISHING PREPARATION FOR DENTAL USE. BERT MCFADDEN, Berkeley, Calif.
Filed October 4, 1920. Serial No. 137,887. PUBLISHED MARCH 15, 1921.

144,602. PIANOS AND PLAYER-PIANOS. MANSFIELD PIANO CO., New York, N. Y.
Filed October 18, 1920. Serial No. 138,448. PUBLISHED MARCH 29, 1921.

144,603. PLATE-POWDER. MAPPIN & WEBB LIMITED, London and Sheffield, England.
Filed August 17, 1920. Serial No. 136,200. PUBLISHED MARCH 29, 1921.

144,604. GOLDEN-HAIR WASH. CHARLES MARCHAND CO., New York, N. Y.
Filed April 29, 1920. Serial No. 131,813. PUBLISHED MARCH 22, 1921.

144,605. INSULATED WIRES AND CABLES. MARION INSULATED WIRE & RUBBER CO., Marion, Ind.
Filed September 7, 1920. Serial No. 136,901. PUBLISHED MARCH 29, 1921.

144,606. STORAGE BATTERIES. MICHAEL MARKS, Philadelphia, Pa.
Filed December 13, 1920. Serial No. 141,004. PUBLISHED MARCH 22, 1921.

144,607. BREAD AND CAKE. MEMPHIS BREAD COMPANY, Memphis, Tenn.
Filed January 3, 1921. Serial No. 141,793. PUBLISHED MARCH 15, 1921.

144,608. METAL-CUTTING BAND-SAW MACHINES. METAL SAW AND MACHINE COMPANY, INC., Springfield, Mass.
Filed November 26, 1920. Serial No. 140,190. PUBLISHED MARCH 22, 1921.

144,609. METAL-CUTTING BAND-SAW MACHINES. METAL SAW AND MACHINE COMPANY, INC., Springfield, Mass.
Filed November 26, 1920. Serial No. 140,191. PUBLISHED MARCH 22, 1921.

144,610. SUGAR CAKES. GROVER N. MINDLING, Pittsburgh, Pa.
Filed January 8, 1921. Serial No. 141,792. PUBLISHED MARCH 15, 1921.

144,611. CHEMICAL FOR REMOVING DEPOSITS FROM THE CYLINDERS OF INTERNAL-COMBUSTION ENGINES. MOTOR-KICK COMPANY, Philadelphia, Pa.
Filed October 20, 1920. Serial No. 138,579. PUBLISHED MARCH 29, 1921.

144,612. ASPIRIN. EDWARD LEONARD MILLER, Buffalo, N. Y.
Filed August 30, 1920. Serial No. 136,641. PUBLISHED MARCH 22, 1921.

144,613. MEDICINAL PREPARATIONS USED AS LAXATIVES. JOSEPH H. MUELLER, Cleveland, Ohio.
Filed September 29, 1920. Serial No. 137,741. PUBLISHED MARCH 29, 1921.

144,614. CERTAIN NAMED PAINTS AND PIGMENTS, COLORS, CALCIMINES, PUTTY, AND PAINT AND VARNISH REMOVERS. C. A. NASH & SON, INC., Norfolk, Va.
Filed August 25, 1920. Serial No. 136,487. PUBLISHED MARCH 29, 1921.

144,615. MONTHLY PUBLICATION. NATIONAL ASSOCIATION OF CREDIT MEN, New York, N. Y.
Filed January 19, 1921. Serial No. 142,448. PUBLISHED MARCH 22, 1921.

144,616. HORSE FEED. NOWAK MILLING CORPORATION, Buffalo, N. Y., and Hammond, Ind.
Filed December 28, 1920. Serial No. 141,600. PUBLISHED MARCH 15, 1921.

144,617. PREPARATION FOR CERTAIN NAMED PURPOSES. FRANK J. NUCCIO, New Orleans, La.
Filed October 2, 1920. Serial No. 137,849. PUBLISHED MARCH 15, 1921.

144,618. WINES. O'BRIEN & CO., Dublin, Ireland.
Filed August 19, 1920. Serial No. 136,279. PUBLISHED MARCH 29, 1921.

144,619. ROASTED COFFEE. JOHN P. O'CONNOR, Parsons, Kans.
Filed October 18, 1919. Serial No. 128,937. PUBLISHED DECEMBER 30, 1919.

144,620. COMBINED ELECTRIC HAIR-CUTTER AND VIBRATOR. PACIFIC COAST BARBER SUPPLY COMPANY, Seattle, Wash.
Filed May 25, 1920. Serial No. 132,937. PUBLISHED MARCH 29, 1921.

144,621. LAXATIVE TONIC. DANIEL GIPSON PARDUE, Nashville, Tenn.
Filed September 15, 1920. Serial No. 137,286. PUBLISHED MARCH 29, 1921.

144,622. SCREW-WORM PREVENTIVE. C. C. PARKER, Mercedes, Tex.
Filed June 22, 1920. Serial No. 134,033. PUBLISHED MARCH 29, 1921.

144,623. MEDICINE FOR RHEUMATISM AND GOUT. ANGELO PELLEGRINO, New York, N. Y.
Filed October 18, 1920. Serial No. 138,449. PUBLISHED MARCH 29, 1921.

144,624. LAWN-SWINGS, DOLL-SWINGS, DOLL HIGH-CHAIRS, TOY SULKIES, AND TOY DRUMS. THE PRESTOY MFG. CO., Bridgeport, Conn.
Filed August 5, 1920. Serial No. 135,822. PUBLISHED MARCH 29, 1921.

144,625. WALL-PAPER. H. P. RAWLINGS WALL PAPER CO., Chicago, Ill.
Filed November 20, 1920. Serial No. 139,008. PUBLISHED MARCH 1, 1921.

144,626. HAIR-GROWER SALVE AND A SALVE FOR DRESSING AND BEAUTIFYING THE HAIR. ANNIE I. RUSSELL, Philadelphia, Pa.
Filed October 12, 1920. Serial No. 138,235. PUBLISHED MARCH 29, 1921.

144,627. WATCHES AND WATCH-MOVEMENTS. JULES RACINE & CO., New York, N. Y.
Filed October 4, 1920. Serial No. 137,891. PUBLISHED MARCH 29, 1921.

144,628. CERTAIN NAMED TABLE FLAT-WARE. THE REGAL SILVER MFG. CO., New Haven, Conn.
Filed September 9, 1920. Serial No. 136,997. PUBLISHED MARCH 29, 1921.

144,629. CANNED FRUITS, CANNED BERRIES, CANNED VEGETABLES, AND FRUIT JAMS. RAY-MALING CO., INC., Hillsboro, Oreg.
Filed September 15, 1920. Serial No. 137,240. PUBLISHED MARCH 29, 1921.

144,630. PREPARATION IN POWDER FORM FOR THE CLEANSING OF FALSE TEETH. H. S. SCRANTON, Florence, Colo.
Filed August 20, 1920. Serial No. 136,315. PUBLISHED MARCH 29, 1921.

144,631. KEYS AND LOCKS. SEGAL LOCK & HARDWARE CO. INC., New York, N. Y.
Filed September 18, 1920. Serial No. 137,337. PUBLISHED MARCH 29, 1921.

144,632. INSECTICIDES, INCLUDING ANIMAL-DIPS, FOR ELIMINATING TICKS AND THE LIKE. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed September 8, 1920. Serial No. 136,958. PUBLISHED MARCH 22, 1921.

144,633. INSECTICIDES, FUNGICIDES, GERMICIDES, AND THE LIKE. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio.
Filed September 25, 1920. Serial No. 137,634. PUBLISHED MARCH 15, 1921.

144,634. WATCHES AND WATCH PARTS. STAR WATCH CASE CO., Ludington, Mich.
Filed November 22, 1920. Serial No. 139,992. PUBLISHED MARCH 8, 1921.

144,635. MUSIC-ROLLS. STANDARD MUSIC ROLL CO., Orange, N. J.
Filed December 2, 1920. Serial No. 140,550. PUBLISHED MARCH 22, 1921.

144,636. HAIR-GROWER, PRESSING-OIL, TEMPLE-GROWER, HAIR-TONIC, COMPLEXION-CREAM, COLD-CREAM, AND DEVELOPING-CREAM. ROSA D. ST. CLAIR, San Antonio, Tex.
Filed October 2, 1920. Serial No. 137,863. PUBLISHED MARCH 29, 1921.

144,637. WRAPPING AND WRITING PAPER. E. J. STILLWELL PAPER COMPANY, St. Paul, Minn.
Filed November 24, 1920. Serial No. 140,151. PUBLISHED MARCH 1, 1921.

144,638. HAIR-TONIC, SHAMPOO, AND HAIR-CLEANSER. STROHMEYER & ARPE COMPANY, New York, N. Y.
Filed October 16, 1920. Serial No. 138,410. PUBLISHED MARCH 29, 1921.

144,639. THUMB-TACKS. JOHN H. TAYLOR, Philadelphia, Pa.
Filed July 10, 1920. Serial No. 134,796. PUBLISHED MARCH 22, 1921.

144,640. TRACTORS, TRACTION-ENGINES, GAS AND LIQUID-FUEL MOTORS OR INTERNAL-COMBUSTION ENGINES, AND PARTS THEREOF. TORO MANUFACTURING COMPANY, Minneapolis, Minn.
Filed December 6, 1920. Serial No. 140,687. PUBLISHED MARCH 22, 1921.

144,641. STONE-CRUSHERS AND FEED DEVICES FOR STONE-CRUSHERS AND COMBINED FEEDERS AND GRIZZLIES. TRAYLOR ENGINEERING & MANUFACTURING CO., Allentown, Pa.; New York, N. Y.; Chicago, Ill.; Los Angeles, Calif., and Spokane, Wash.
Filed April 3, 1920. Serial No. 130,627. PUBLISHED MARCH 22, 1921.

144,642. WHEAT-FLOUR. TRENTON MILLING COMPANY, Trenton, Ill.
Filed January 20, 1921. Serial No. 142,541. PUBLISHED MARCH 22, 1921.

144,643. CIGARETTES, PACKAGES OF CIGARETTES, CIGARS, CHEWING, SMOKING, AND LEAF TOBACCO. TURMAC TURKISH MACEDONIAN TOBACCO COMPANY, Arnhem, Netherlands.
Filed August 11, 1920. Serial No. 136,008. PUBLISHED MARCH 29, 1921.

144,644. WATCHES. UNION HORLOGÈRE S. A., Bienne, Switzerland.
Filed December 24, 1919. Serial No. 126,430. PUBLISHED MARCH 29, 1921.

144,645. PACKING-HOUSE PRODUCTS — NAMELY, BACON, HAM, COOKED HAM, AND LARD. VALLEY PACKING COMPANY, Salem, Oreg.
Filed September 20, 1920. Serial No. 137,898. PUBLISHED MARCH 22, 1921.

144,646. WHEAT-FLOUR. VOLLMER WAREHOUSE & MILLING CO., Vollmer, Idaho.
Filed December 28, 1920. Serial No. 141,614. PUBLISHED MARCH 15, 1921.

144,647. CERTAIN NAMED PAINTS, ENAMELS, VARNISHES, AND BRONZING LIQUIDS, AND FLOOR-WAX. THE IRA D. WASHBURN COMPANY, Cincinnati, Ohio.
Filed April 5, 1920. Serial No. 130,703. PUBLISHED MARCH 29, 1921.

144,648. CERTAIN NAMED MEDICINAL PREPARATION. DONALD R. WESTENDORF, Mount Clemens, Mich.
Filed October 2, 1920. Serial No. 137,869. PUBLISHED MARCH 15, 1921.

144,649. FRICTION-TAPE. WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y.
Filed November 22, 1920. Serial No. 140,002. PUBLISHED MARCH 1, 1921.

144,650. PLUG-FUSES. WHITMAN ELECTRIC MANUFACTURING CO., Whitman, Mass.
Filed January 15, 1921. Serial No. 142,310. PUBLISHED MARCH 1, 1921.

144,651. CERTAIN NAMED ELECTRICAL APPLIANCES. THE H. A. WILSON COMPANY, Newark, N. J.
Filed December 28, 1920. Serial No. 141,621. PUBLISHED MARCH 1, 1921.

144,652. STORAGE BATTERIES. WURST & SCHRADER, Van Nuys, Calif.
Filed January 3, 1921. Serial No. 141,819. PUBLISHED MARCH 1, 1921.

144,653. SALVE FOR CUTS, BRUISES, SORE THROAT, FEVER-BLISTERS. CHRISTEN E. ZIPPERER, Statenville, Ga.
Filed October 11, 1920. Serial No. 138,199. PUBLISHED JULY 12, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 12, 1921.

144,654. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLAMBERG BROTHERS, INC., Baltimore, Md. Filed Feb. 18, 1921. Serial No. 143,741.



Particular description of goods.—Poultry, Pigeon, and Stock Feed.
Claims use since Jan. 1, 1914.

144,655. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA CENTRAL CREAMERIES, San Francisco, Calif. Filed Jan. 29, 1921. Serial No. 142,922.

SEAL SHELL

Particular description of goods.—Eggs.
Claims use since July 8, 1914.

144,656. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CROCKER-WHEELER COMPANY, Ampere, N. J. Filed Oct. 25, 1920. Serial No. 138,756.

CROCKER-WHEELER COMPANY

Particular description of goods.—Motors and Generators, Both Alternating and Direct, and Starters for Alternating and Direct Current Motors.
Claims use since May 1, 1901.

144,657. (CLASS 10. FERTILIZERS.) THE EXCELL LABORATORIES, Chicago, Ill. Filed Jan. 8, 1921. Serial No. 141,969.

ZENKE'S
NEW PLANT LIFE

Particular description of goods.—Liquid Fertiliser.
Claims use since October, 1914.

144,658. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed Jan. 11, 1921. Serial No. 142,066.

SANTA CLARA

Particular description of goods.—Candies.
Claims use since 1900.

144,659. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. HELLER AND COMPANY, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 141,303.

$1000.00
GUARANTEED

Particular description of goods.—Preparations in Powdered, Plastic, and Liquid Form for the Poisoning of Vermin and Rodents, Entitled as Follows: "Roach Killer," "Rat and Mice Killer," "Ant-Bane," and "Bed-Bug Killer."
Claims use since Jan. 15, 1905, for "Roach Killer" and since July 29, 1911, for "Rat and Mice Killer," "Ant-Bane," and "Bed-Bug Killer."

144,660. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL DRUG COMPANY, Wilmington, Del. Filed Mar. 17, 1921. Serial No. 144,863.

International Drug Company

Particular description of goods.—Wine of Cod-Liver Oil.
Claims use since 1917.

144,661. (CLASS 37. PAPER AND STATIONERY.) KALAMAZOO LOOSE LEAF BINDER COMPANY, Kalamazoo, Mich. Filed Mar. 18, 1921. Serial No. 144,917.

Kalamazoo

Particular description of goods.—Sheets for Loose-Leaf Binders, Posting Outfits, and Accounting Devices, Comprising Sheets, Racks, Files, and Binders.
Claims use since March, 1906.

144,662. (CLASS 37. PAPER AND STATIONERY.) KALAMAZOO LOOSE LEAF BINDER COMPANY, Kalamazoo, Mich. Filed Mar. 18, 1921. Serial No. 144,918.

"KALAMAZOO SYSTEMS"

Particular description of goods.—Sheets for Loose-Leaf Binders, Posting Outfits, and Accounting Devices, Comprising Sheets, Racks, Files, and Binders.
Claims use since August, 1911.

144,663. (CLASS 37. PAPER AND STATIONERY.) KALAMAZOO LOOSE LEAF BINDER COMPANY, Kalamazoo, Mich. Filed Mar. 18, 1921. Serial No. 144,919.

Kalamazoo
Loose Leaf Devices

Particular description of goods.—Sheets for Loose-Leaf Binders, Posting Outfits, and Accounting Devices, Comprising Sheets, Racks, Files, and Binders.
Claims use since January, 1912.

144,664. (CLASS 11. INKS AND INKING MATERIALS.) BENJAMIN LINK, Chicago, Ill. Filed Jan. 22, 1921. Serial No. 142,625.



Particular description of goods.—A Preparation in Plastic Form for Use as a Softener and Drier for Printers' Ink.
Claims use since March, 1919.

144,665. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Feb. 25, 1921. Serial No. 144,030.

McDonald's

Particular description of goods.—Chocolate Candies and Cocoa.
Claims use since about 1908.

144,666. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. L. MATHEWS CANDY COMPANY, Wilmington, N. C. Filed Mar. 11, 1921. Serial No. 144,629.



Particular description of goods.—Candy.
Claims use since January, 1912.

144,667. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MORRIS & COMPANY, Union Stock Yards, Chicago, Ill. Filed Oct. 31, 1919. Serial No. 124,413.

AVONDALE

Particular description of goods.—Butter and Eggs.
Claims use since 1907.

144,668. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill. Filed Mar. 16, 1921. Serial No. 144,836.

"THE MORE YOU EAT-
THE MORE YOU WANT"

Particular description of goods.—Candied Popcorn.
Claims use since Jan. 28, 1896.

144,669. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHASTA CREAMERY COMPANY, Corning, Calif. Filed June 14, 1920. Serial No. 133,714.

Maywood

Particular description of goods.—Butter.
Claims use since Apr. 1, 1920.

144,670. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPANGENBERG & CO., Chicago, Ill. Filed May 10, 1920. Serial No. 132,275.

PERFECTION

Particular description of goods.—Eggs and Butter.
Claims use since 1905.

144,671. CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DEAN D. STRICKLER, Huntingdon, Pa. Filed Jan. 20, 1921. Serial No. 142,540.

"WESTBROOK'S"

Particular description of goods.—Ice-Cream.
Claims use since 1908.

144,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y. Filed Jan. 31, 1920. Serial No. 127,810.

SARANAC

Particular description of goods.—Wheat-Flour.
Claims use since Aug. 11, 1919.

144,673. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y. Filed Jan. 31, 1920. Serial No. 127,815.

HUDSON BAY

Particular description of goods.—Wheat-Flour.
Claims use since Aug. 11, 1919.

144,674. (CLASS 5. ADHESIVES.) THE VORTEX MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 25, 1921. Serial No. 145,247.

"BRUSH-ON"

Particular description of goods.—Waterproof Cement.
Claims use since about February, 1916.

144,675. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Mar. 31, 1921. Serial No. 145,540.

Turnover Toaster

Particular description of goods.—Electric Stoves Used in Making Toast.
Claims use since Dec. 1, 1916.

144,676. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa. Filed Feb. 18, 1921. Serial No. 143,801.

S.S.WHITE

Particular description of goods.—Tooth-Powder, Tooth-Paste, Precipitated Chalk, Prepared Chalk, Tooth-Soap, Mouth-Wash, Cold-Cream, Almond-Cream, Talcum Powder, Bay-Rum, Cologne-Water, Violet-Water, Violet-Ammonia, Nerve-Paste, Nerve-Devitalizing Fiber, Soldering Fluid, and Soldering-Flux Paste.
Claims use since 1869.

LABELS

REGISTERED JULY, 12, 1921.

23,114.—*Title:* "CHOC'-Ō-LA." (For Non-Alcoholic Beverage.) CHOC'-Ō-LA CO., San Francisco, Calif. Filed February 7, 1921.

23,115.—*Title:* "A DELIGHTFUL HAIR DRESSING." (For the Treatment of Dandruff and Itching Scalps.) THE HERPICIDE COMPANY, Detroit, Mich. Filed February 14, 1921.

23,116.—*Title:* "A DELIGHTFUL HAIR DRESSING." (For the Treatment of Dandruff and Itching Scalps.) THE HERPICIDE COMPANY, Detroit, Mich. Filed February 14, 1921.

23,117.—*Title:* "PUREZA." (For Condensed Milk.) JUAN & MCCORMACK, New York, N. Y. Filed May 20, 1921.

23,118.—*Title:* "PEYTON LINEN LAWN." (For Correspondence-Paper.) PEYTON PAPER CO., Duluth, Minn. Filed June 9, 1920.

23,119.—*Title:* "STARLEY'S RHEUMATIC REMEDY." (For a Remedy for Rheumatism.) STARLEY DRUG COMPANY, Tyler, Tex. Filed Mar. 26, 1921.

PRINTS

REGISTERED JULY 12, 1921.

5,675.—*Title:* "HERE IT IS!" (For Commutators.) THE BALTIMORE COMMUTATOR COMPANY, Baltimore, Md. Filed Apr. 16, 1920.

5,676.—*Title:* "WE SHALL KEEP FAITH." (For Advertising Purposes for Motors.) HARES MOTORS, INC., New York, N. Y. Filed August 13, 1920.

5,677.—*Title:* "WE SHALL KEEP FAITH." (For Advertising Purposes for Motor-Cars.) HARES MOTORS, INC., New York, N. Y. Filed November 20, 1920.

5,678.—*Title:* "THE GIRL YOU STOP TO LOOK AT." (For Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed March 10, 1921.

5,679.—*Title:* "BATTERY SERVICE." (For Advertising Purposes for Secondary Batteries.) WESTINGHOUSE UNION BATTERY COMPANY, Swissvale, Pa. Filed February 14, 1921.

5,680.—*Title:* "WESTINGHOUSE BATTERIES." (For Advertising Purposes for Secondary Batteries.) WESTINGHOUSE UNION BATTERY COMPANY, Swissvale, Pa. Filed February 14, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

HAY *v.* MALONE, DOING BUSINESS UNDER THE STYLE AND NAME OF PORO COLLEGE.

Decided May 2, 1921.

TRADE-MARKS — IDENTITY — PORTRAITS WITH THE WORD "HAY-PO"—SIMILAR PORTRAITS WITH "PORO."

Opposition to registration of a mark for hair-dressing, comprising portraits representing "before" and "after" use, with the word "Hay-Po" above, all inclosed within a circle, sustained in view of the prior use by opposer of substantially the same portraits with the word "Poro" above, all inclosed within a circle.

Mr. Peyton Gordon and *Mr. H. M. Sterling* for Hay.

Mr. J. D. Rippey and *Mr. L. C. Kingsland* for Malone.

VAN ORSDEL, *J.*:

This is a trade-mark opposition proceeding brought under section 6 of the Trade-Mark Act of February 20, 1905, and involves the right of appellant Hay to register the words "Hay-Po" as a trade-mark for hair-dressing. The following is an illustration of the mark as actually used in trade:



The mark of the opposer Malone consists of substantially the same portraits "before" and "after," with the word "Poro" printed above, all inclosed within a circle. Opposer has established prior use of her mark.

It is unnecessary to pass upon appellant's right to register the word "Hay-Po" alone, since it does not appear that he has ever used it in trade independent of the other features of the mark as above shown. There must be actual trade-mark use to entitle the owner to registration. Hence, appellant must stand or fall upon the actual use of the mark.

In a former proceeding, appellant attempted to register the mark above illustrated with the "before" and "after" features, and was successfully opposed by appellee. On this point, the Commissioner, in his opinion, said:

An applicant should not be allowed to register one feature of his mark when it discloses other prominent and material features. Such practice would enable an applicant using a compound mark when rejected on a previous compound mark to select the feature not shown in the prior mark and register it and thus evade the rejection, although actually using a mark that infringed the prior mark. This would evidently lead to intolerable results.

We think appellee has clearly established that she would be injured by the registration of appellant's mark, and where that fact is shown, the opposition should be sustained.

The decision of the Commissioner of Patents is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

IN RE BRASELTON.

Decided June 6, 1921.

PATENTS—DOUBLE OR ANALOGOUS USE—COATING PROCESS.

It involves no invention to apply an old process for coating metal, paper, glass, fabric or the like, consisting in depositing the coating material in the form of a spray by means of a blast of air, to the coating of shoes with a thin film of metal. (*Brown v. Piper*, 91 U. S., 37.)

Mr. E. B. Whitcomb for Braselton.

Mr. T. A. Hostetler for the Commissioner of Patents.

SMYTH, *C. J.*:

Braselton applied for a patent on an improvement in shoes and a process for making shoes. There were twenty-eight claims in his application. All were allowed except 1, 2, 4 to 11, inclusive, 25 and 26, the last two being numbered in the record 16 and 17. Claims 1, 4 and 11 are typical. They are:

1. The process of making shoes which consists in coating certain parts of the shoe with metal by heating the metal to a liquid and blowing the same in the form of a spray by a blast of gas against the said parts.

4. The process of making shoes which consists in coating the bottom of a shoe above the sole before the sole is attached, with a film of metal by heating the metal into a liquid and blowing the same by a blast of gas into the form of a spray and against the then exposed lower surface of the shoe.

11. The process of making shoes which consists in applying a continuous flexible film of metal over the sole and welt and impregnating said sole and welt with said metal.

The appealed claims were rejected on a patent to Schoop dated February 9, 1915, and on one to Morf on the same date.

Under the process covered by the claims a film of metal is applied to a portion of the article dealt with. Some of the claims say that the film is flexible and impregnates the material of the article; that it is continuous and is applied by a blast of gas in the form of a spray. From the references it is clear that the method of the claims is old. Appellant utilizes the processes of Schoop and Morf, the only difference being that he applies it to shoes while Schoop used it to coat metal, paper, fabric and the like, and Morf to coat glass and other substances. When the matter was before the Examiners-in-Chief it was said of the present claims that they—

> are drawn to a process of making shoes but involve nothing more than coating the shoe by the old method after the shoe is complete. This is not a method of making shoes and the method is not patentable as novel merely because the coating is applied to a different object unless the result of the operation is different and unobvious. In this case the result of the process is the production of a coating and nothing more.

This we approve. There is no warrant for holding that an old process applied to a new use is patentable when it performs substantially the same functions. The Supreme Court of the United States, in *Brown et al.* v. *Piper*, (91 U. S., 37,) refused to hold that a process for preserving fish and other articles in a close chamber by freezing was patentable, in view of methods for freezing ice-cream and for preserving a corpse. It was contended that the process had never been used before for preserving fish, but the court disposed of the contention by saying:

> The answer is, that this was simply the application by the patentee of an old process to a new subject, without any exercise of the inventive faculty, and without the development of any idea which can be deemed new or original in the sense of the patent law.

Other decisions bearing directly on the point are *Lovell Manufacturing Co.* v. *Cary* (147 U. S., 623) and *Arlington Manufacturing Co.* v. *Celluloid Co.*, (97 Fed., 91.) In concluding his opinion in this case the Assistant Commissioner said:

> To my mind nothing could be more evident to one knowing the prior art and having a conception of a metal coated shoe than that an ordinary shoe could be coated by the prior art process to produce appellant's patented article.

Indisputably this must be correct.

There is nothing in the cases cited by appellant which conflicts with the views here expressed. *Thayer & Chandler* v. *Wold* (142 Fed., 776) at first reading seems to give his contention some support. A closer examination, however, shows that it does not. It was there argued that an air brush consisting of a combination device whereby liquid colors may be atomized by a blast of compressed air and blown upon a suitable surface so as to form any desired representation, such as a picture, according to the will and skill of the manipulator, was anticipated by two patents showing concentric color and steam nozzles, a needle valve in the color tube as well as a coincident delivery of oil and steam, for the purpose of atomizing the oil supply. Both of them pertained to furnaces in the industrial art. The court in holding that there was no anticipation said:

> It is indeed possible to reason from a Corliss engine to a watch spring, but the journey will lead the mind over an uncharted highway and across unbridged waters. So, here, the adaptation of the idea of the oil distributing device to the pencil sized air brush seems to me to involve several inventive steps.

The court then points out the steps. The distance between the methods of the references and the method of the applicant is not great and no inventive steps would be necessary to make the journey. We think the Commissioner of Patents was right and his decision is affirmed.

Affirmed.

Court of Appeals of the District of Columbia.

THE COCA-COLA CO. *v.* CHERO-COLA CO.

Decided June 6, 1921.

1. TRADE-MARKS—IDENTITY—"CHERO-COLA" AND "COCA-COLA."

   The words "Chero-Cola" held not entitled to registration in view of the prior adoption and use of the words "Coca-Cola," for goods of the same descriptive properties.

2. SAME—SAME—MERE ARGUABLE DIFFERENCES.

   Mere arguable differences between marks are not sufficient to warrant registration of the last to adopt and use.

3. SAME—SAME—TEST OF IDENTITY.

   That there would be no difficulty in apprehending the difference between two marks when they are placed together, or when attention is in some other way directed to them, is not a proper test of identity, as ordinarily a prospective purchaser does not carry more than a faint impression of the mark he is looking for, is governed by a general glance, and acts quickly.

Mr. F. M. Phelps, *Mr. E. S. Rogers*, and *Mr. Nelson J. Jewett* for The Coca-Cola Co.

Mr. C. L. Parker and *Mr. Melville Church* for Chero-Cola Co.

SMYTH, *C. J.*:

Appellee made application to have registered in the Patent Office the words "Chero-Cola" as a trade-mark for "Cola," a soft drink. The application was opposed by the appellant on the ground that it, the appellant, was the owner of the registered mark "Coca-Cola," which is applied by it to the same kind of a drink. The Examiner of Interferences sustained the opposition, but was reversed by the Commissioner of Patents.

Opposer has been using its mark since 1886, while applicant did not adopt its mark until 1911. It is conceded that the goods of the parties have the same descriptive properties, and therefore there is but one matter for our decision, namely, whether or not the marks are so similar as to be likely to cause confusion in the public mind or to deceive purchasers. (33 Stat. L., 725.)

Nearly three thousand pages of testimony were taken and elaborate briefs have been filed. Many decisions by courts in this country and in England are cited, and, besides, we are invited to listen to the teaching of psychology on the subject. None the less the question in dispute is a simple one and the principles by which its solution may be reached have been often declared and applied by this court.

It is true that if we analyze the two marks differences will be found: They do not sound quite

alike, and the number of letters in each is not the same, but these are only arguable differences, which are not enough to defeat the opposition. (*William Waltke & Co.* v. *Geo. H. Schafer & Co.*, 49 App. D. C., 254, 256, and cases cited; *Thos. Manufacturing Co.* v. *Aeolian Co.*, 47 App. D. C., 376, 379.)

Each of the marks embraces two hyphenated words. "C" is the first letter in each mark, and "Cola" the last word in each. The image which one mark paints upon the mind is not clearly different from that made by the other mark. To require that the line which separates marks should be well defined is not to ask too much, since the field from which a person may select a mark is almost limitless. (*Florence Manufacturing Co.* v. *Dowd & Co.*, 178 Fed., 73, 75; *Waltke & Co.*, v. *Schafer & Co., supra; Thos. Manufacturing Co.* v. *Aeolian Co., supra*, 378.) If he is not content with a word to be found in a dictionary, he may coin one.

Of course, if the two marks were placed together, or if a person's attention was in some other way directed to them, there would be no difficulty in apprehending the difference between them. This, however, is not the way to make the test. Ordinarily the prospective purchaser does not carry more than a faint impression of the mark he is looking for. If the article offered to him bears a mark having any resemblance to the one he is thinking of he is likely to accept it. He acts quickly. He is governed by a general glance. The law does not require more of him. (*Patton Paint Co.* v. *Orr's Zinc White*, 48 App. D. C., 221.)

Many witnesses testified to numerous instances of actual confusion produced by applicant's mark. Even counsel for applicant in the cross-examination of witnesses several times confused "Coca-Cola" with "Chero-Cola." The statute does not require proof of actual confusion, but when there is such proof it is not easy to escape the conclusion that the assailed mark if registered would be likely to do that which it has done.

Opposer, as we have seen, adopted its mark in 1886 and has been using it ever since, so that—

> the mark for years has acquired a secondary significance and has indicated the plaintiff's (opposer's) product alone. (*The Coca-Cola Company* v. *The Koke Company of America*, decided by the Supreme Court of the United States December 6, 1920.)

Millions have been spent by it for advertising its goods under the mark. During the time that it has used the mark it has been doing business in Atlanta, Ga. Applicant's place of business is in a nearby town,—Columbus, Ga. It, as we have said, did not commence to use its mark until 1911, twenty-five years after opposer had put into use its mark. Why was this mark selected by it, since it had so many others from which to choose? Is not its action open to the inference that the purpose was to appropriate some of opposer's business by producing confusion in the minds of the purchasing public? Whatever the purpose may have been, it is quite undeniable that mistakes have resulted from the use of applicant's mark.

Even if we doubted with respect to the proper solution of the question before us, it would be our duty to resolve the doubt against the applicant. (*Lambert Pharmacal Co.* v. *Mentho-Listine Co.*, 47 App. D. C., 197; *William Waltke & Co.* v. *Geo. H. Schafer & Co., supra.*)

Considering the matter in the light of the statute, the record, and our previous decisions, we are constrained to hold that the opposition should be sustained, and hence the decision of the Commissioner of Patents must be, and it is, reversed.

Reversed.

Court of Appeals of the District of Columbia.

IN RE TAYLOR-LOGAN CO., PAPERMAKERS.

Decided June 6, 1921.

TRADE-MARK—IDENTITY—"MAIL ORDER"—"MAIL" AND REPRESENTATION OF A MAIL-BOX WITH THE WORD "MAIL."

The words "Mail Order," for paper, held deceptively similar to the word "Mail" printed in a special manner and to a mark consisting of the representation of a mail-box with the word "Mail" thereon, the word "Mail" being the principal element of each mark.

Mr. Geo. H. Kennedy for Taylor-Logan Co.

Mr. T. A. Hostetler for the Commissioner of Patents.

SMYTH, *C. J.*:

Appellant asked the Commissioner of Patents to register the words "Mail Order" as a trade-mark for various kinds and grades of paper manufactured by it. The request was denied on the ground that there were registered for J. C. Blair Company two similar marks which were applied to the same class of goods, namely, paper of different kinds, and that if appellant's mark were granted registration it would "be likely," in the language of the statute,

> to cause confusion or mistake in the mind of the public, or to deceive purchasers * * *. (33 Stat. L., 725.)

The Blair Company's marks consist, in one case, of a representation of a mail-box with the word "Mail" on it and, in the other, of the word "Mail" printed in a special manner. The word "Mail," then, is common to all the marks and is prominent in each. Appellant takes a part of the Blair Company's mark in one case and the entire mark in the other and adds to it the word "Order." The word "Mail" is the principal element in each case, and the appellant by appropriating it has formed a mark which, in our judgment, is deceptively similar to each of the Blair Company's marks.

> It is not necessary to constitute an infringement that every word of a trademark shall be appropriated. It is sufficient that enough be taken to deceive the public in the purchase of a protected article. (*Saxlehner v. Eisner & Mendelson*, 179 U. S., 19, 33.)

Marks which have been held to be deceptively similar are "Autonoisettes" and "Auto," (*Walter Baker & Co.* v. *Delapenha et al.*, 160 Fed., 746;) "Pride" and "Pride of Syracuse," (*Hier* v. *Abrahams*, 82 N. Y., 519;) "Queen" and "Queen of the West," (*Ammon & Person* v. *Narragansett Dairy Co.*, 252 Fed., 276;) "Chancellor Club" and "Club Cocktails," (*in re S. C. Herbst Importing Co.*, 30

App. D. C., 297;) "Orchestrola" and "Orchestrelle," (*Thomas Manufacturing Co.* v. *Aeolian Co.*, 47 App. D. C., 376;) "Mentholistine" and "Listerine," (*Lambert Pharmacal Company* v. *Mentholistine Chemical Company*, 47 App. D. C., 197,) and "U-Lavo" and "Lava," (*William Waltke & Co.* v. *Geo. H. Schafer & Co.*, 49 App. D. C., 254.)

The principles governing the solution of the question as to whether or not trade-marks applied to the same class of goods are likely to produce confusion have been so often discussed and applied by this court that we do not think it necessary to do more than to direct attention to the decisions just referred to and to those cited by the Commissioner of Patents in his opinion, which we affirm.

Affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Mass.) The Arkell patents, No. 790,021, for a process for making stretchable crinkled paper, and No. 790,022, for a machine for carrying out such process, *Held* void for anticipation and lack of invention in view of the prior art. *Arkell Safety Bag Co.* v. *Safepack Mills*, 272 F. R., 1.

(U. S. C. C. A. Mass.) The Arkell patent, No. 790,023, for process and machine for making stretchable crinkled paper, *Held* void for lack of invention. *Arkell Safety Bag Co.* v. *Safepack Mills*, 272 F. R., 1.

(U. S. C. C. A. Ohio.) Claim 6 of the Wertz patent. No. 926,308, for a toy pistol, *Held* valid, also *Held* infringed, though a rigid pawl held in place by a spring engaging with the trigger was used to operate the feeding element instead of a spring alone, engaging on the hammer. *Edwards Mfg. Co.* v. *National Fireworks Distributing Co.*, 272 F. R., 23.

(U. S. C. C. A. Ohio.) The Clark patent, No. 991,956, for a toy pistol, *Held* not infringed, if valid, in view of the prior art. *Edwards Mfg. Co.* v. *National Fireworks Distributing Co.*, 272 F. R., 23.

(U. S. D. C. N. Y.) The Hewitt patents, No. 781,001, claim 1, and No. 781,002, claim 3, for an apparatus and method of amplifying variable electrical currents by a gas or vapor conductor in the circuit, *Held* not infringed by audion-repeaters, which generated a new and stronger electrical current having the same variations as the primary current, though the repeater used a bulb, in which an infinitesimal quantity of air remained. *Hewitt* v. *American Telephone & Telegraph Co.*, 272 F. R., 194.

(U. S. D. C. N. Y.) The Hewitt patents, No. 1,120,949, claims 1, 7, 11, 13, 18, 19, and No. 1,121,359, claims 2 to 4, for an apparatus and method for increasing resistance to starting a current at an electrode by inducing in the vapor around the electrode a higher charge than is induced solely by the application of current through the terminals, is not infringed by an audion-repeater consisting of a bulb, in which the current passed from the filament to a plate, though between the two was a charged grid acting merely to vary the amount of the current and not to prevent the starting or flow of an undesired current. *Hewitt* v. *American Telephone & Telegraph Co.*, 272 F. R., 194.

(U. S. D. C. Ga.) The Ashmore and Morgan patent, No. 1,273,022, claims 5 and 6, for a device and process for finishing concrete pavements by rolling them with a roller of small dimensions and relatively great length and light weight, adapted to float on semifluid concrete, *Held* not anticipated by the use of heavy rollers, which sought to attain the result by pressure instead of by agitation, as in the patented process, and to be valid. *Macon Concrete Roller Co.* v. *Brooks-Callaway Co.*, 272 Fed. Rep., 341.

(U. S. D. C. Ga.) The Ashmore and Morgan patent, No. 1,302,275, claims 1-3, for a roller to finish pavement between the rails of a railroad-track and grooving the same next the rails, *Held* anticipated by previous roller construction and invalid. *Id.*

Patents Nos. 1,384,734 to 1,385,350.

THE
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Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 6, 1921.

Amédée Castaing, his assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Spiros C. Markatos, 456 Broadway, New York, N. Y., for registration of a trade-mark and trade-mark registered January 29, 1907, No. 60,225, to Amédée Castaing, 518 West Thirtieth street, New York, N. Y., and a notice of such declaration sent by registered mail to said Amédée Castaing at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Amédée Castaing, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 21, 1921.

Ella Virginia Cameron, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Ralph H. Estabrook, of 10 Lincoln street, Fitchburg, Mass., for registration of a trade-mark and trade-mark registered May 9, 1893, No. 22,996, to Ella Virginia Cameron, of 753 Third avenue, New York, N. Y., and a notice of such declaration sent by registered mail to said Ella Virginia Cameron at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Ella Virginia Cameron, her assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,249,583.

On June 21, 1921, a decision was rendered that Joseph L. Wright was not the first inventor of the subject-matter covered by claims 38, 40, and 41 of his Patent No. 1,249,583, subject, "Telephone-exchange system," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,337,903.

On June 10, 1921, a decision was rendered that Harold Cecil Greenwood was not the first inventor of the subject-matter covered by claims 1, 2, 5, and 6 of his Patent No. 1,337,903, subject, "Synthetic production of ammonia," and no appeal having been taken within the time allowed such decision has become final.

Patent Office Publications.

The stock of the following publications is held for sale by the Patent Office, and orders for same should be addressed to the Commissioner of Patents:

Weekly Index—Annual subscription	$1.00
Commissioner's Decisions:	
Weekly edition—Annual subscription	2.00
Single numbers	.05
Trade-Mark Supplements:	
Weekly edition—Annual subscription	2.00
Single numbers	.05
Manual of Classification of the German Patent Office, (translated,) paper cover	1.00
Index to German Classification	1.00
Definitions of Revised Classes and Subclasses, edition of 1912, (Bulletins 1 to 27, inclusive)	.50
Bulletins, excepting Nos. 28 and 29, (now out of print,) published since 1912, each	.10

Other publications than those above named, exclusive of printed copies of patents, trade-mark registrations, etc., formerly held for sale by the Patent Office, have been transferred to the Superintendent of Documents, Government Printing Office. Orders for such publications should NOT be sent to the Patent Office, but to the Superintendent of Documents, to whom all remittances for such publications should be made payable.

Printed copies of specifications and drawings of patents, trade-mark registrations, etc., will be furnished by the Patent Office, as heretofore.

Photostat Copies.

In ordering photostat copies of United States and foreign patents, when only the number of the patent is given the whole patent, comprising specification and drawing, will be furnished, unless the order specifically states that the "specification only" or "drawing only" is required. Care should be taken in making out orders for foreign patents to give the year of the patent, as in old French and British patents the number will vary according to the year.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business July 9, 1921.

Room No	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders....	Feb. 16	Mar. 11	669
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Oct. 18	Dec. 9	1,520
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 13	Nov. 5	715
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 10	Mar. 16	1,643
167	5. Book-Making; Books, Strips and Leaves; Harvesters: Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Sept. 27	Dec. 7	735
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Jan. 31	Apr. 8	942
312	7. Games and Toys; Optics; Photography; Velocipedes	Jan. 31	Mar. 26	1,437
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 2	May 27	605
121	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Sept. 13	May 3	788
235	10. Land-Vehicles; Land-Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Jan. 31	Apr. 28	1,187
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Mar. 26	Apr. 19	385
222	12. Machine Elements	Nov. 18	Apr. 13	1,044
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 1	Mar. 30	1,570
322	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Oct. 8	May 5	900
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	July 17	Jan. 3	1,599
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 4	Dec. 18	1,479
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec. 16	Mar. 11	826
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 11	Dec. 20	1,580
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 8	Feb. 9	895
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Feb. 24	Feb. 18	1,196
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Nov. 3	Apr. 11	517
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Mar. 25	May 4	424
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Nov. 30	Apr. 8	780
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Dec. 23	Apr. 4	872
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	May 12	May 19	269
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Dec. 11	Feb. 7	747
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Feb. 7	Mar. 29	1,422
225	28. Internal-Combustion Engines	Dec. 1	Mar. 1	1,262
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Dec. 10	May 2	703
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Feb. 2	May 9	1,002
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Aug. 21	Nov. 1	2,027
278	32. Gas and Liquid Contact Apparatus; Heat Exchange; Refrigeration	Sept. 13	Apr. 6	1,089
70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 19	Mar. 11	738
301	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders: Vehicle-Fenders.	May 13	May 27	283
57	35. Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	May 26	Apr. 1	498
204	36. Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring	Feb. 11	Jan. 27	1,496
107	37. Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 3	Jan. 6	1,987
373	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Feb. 12	Feb. 14	1,048
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Aug. 24	Sept. 17	1,735
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Nov. 26	Feb. 7	1,985
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Dec. 13	Mar. 26	844
114	42. Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling	Oct. 23	Nov. 4	2,038
382	43. Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Water Separation or Purification.	Sept. 11	Dec. 20	1,331
253	44. Air-Guns, Catapults, and Targets; Ammunition and Explosive Charge Making; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Ships.	Oct. 28	Apr. 28	516
379	45. Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Jan. 10	Apr. 7	1,006
332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 16	Feb. 25	933
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Nov. 13	Feb. 14	1,004
	Oldest new case, July 17; oldest amended, Sept. 17.			
	Total number of applications awaiting action			49,826
103	TRADE-MARKS, DESIGNS, LABELS AND PRINTS:			
	Trade-Marks	Oct. 21	Apr. 11	4606
	Designs	Oct. 11	Jan. 19	2060
	Labels and Prints	Apr. 11	June 18	507

PATENTS

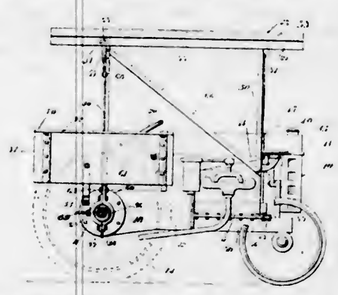
GRANTED JULY 19, 1921.

1,384,734. ELECTRICAL TESTING SYSTEM AND APPARATUS. CLARENCE A. ANDERSON, Abilene, Kans. Filed Sept. 24, 1919. Serial No. 326,005. 9 Claims. (Cl. 179—175.)



6. In an electrical testing system, a talking set including an induction coil, receiver, transmitter and battery, an exploring coil and switching means for alternately connecting and disconnecting said receiver with the remainder of said talking set and said exploring coil.

1,384,735. TOP AND FENDER FOR TRACTORS. NILS ANDERSON, Yutan, Nebr. Filed Jan. 22, 1920. Serial No. 353,150. 7 Claims. (Cl. 280—152.)



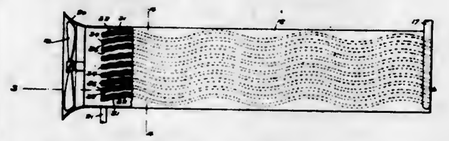
2. The combination with a tractor having an engine, of a top arranged above the tractor, a pair of standards connected to said top and having their lower ends secured to opposite sides of said engine, a transversely extending brace connected at its ends to the intermediate portions of said standards, means to connect the intermediate portion of said transversely extending brace to the upper side of said engine, and a supporting device for the rear end of said top.

1,384,736. SUNKEN-SHIP INDICATING AND SAFETY DEVICE. JOSEPH ARDO and OSCAR PHILLIPS, Newhall, W. Va. Filed Mar. 15, 1921. Serial No. 452,485. 6 Claims. (Cl. 9—9.)



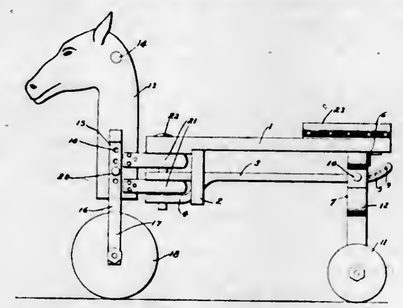
1. A device of the kind described comprising a hollow float, a drum in said float, and a rope wound on said drum and having its loose end adapted for attachment to a ship, a shaft forming part of said drum, an air compressor in the float adapted for operation by said shaft, and a whistle on the said float.

1,384,737. STEAM-CONDENSER. HARTLEY O. BAKER and WILLIAM P. COOK, Pueblo, Colo., assignors to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Filed May 13, 1918. Serial No. 234,167. 1 Claim. (Cl. 257—39.)



A steam condenser comprising a shell having parallel sheets therein extending longitudinally and arranged in pairs to provide alternate air and steam passages, said sheets having relatively long sinuous portions throughout their lengths, and the sinuous portions having smaller transverse corrugations throughout the length thereof.

1,384,738. TOY VEHICLE. JOHN WILLIAM BELLAIRS, Mishawaka, Ind. Filed July 17, 1920. Serial No. 396,996. 3 Claims. (Cl. 208—165.)



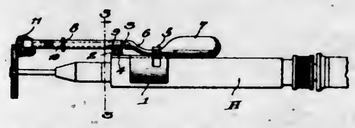
1. A toy vehicle including a body, a cushion upon the rear portion thereof, a bolster hingedly connected to the body, a reach fixed to and extending under the body, an adjustable connection between the reach and bolster for holding said bolster at angular adjustment relative to the body, a steering head, tongues extending therefrom and pivotally connected to the body and reach, a block adjustably connected to the head, and a wheel connected to the block.

1,384,739. [WITHDRAWN.]

1,384,740. DENTAL INSTRUMENT. WILLIAM W. BOLLS, Washington, D. C. Filed Nov. 4, 1920. Serial No. 421,667. 8 Claims. (Cl. 32—10.)

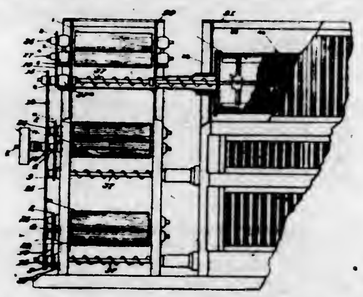
1. In a dental instrument having a handle and a grinding wheel, a support formed for attachment to the handle

of the instrument, a tubular member pivoted to the support and having a discharge positioned opposite to the



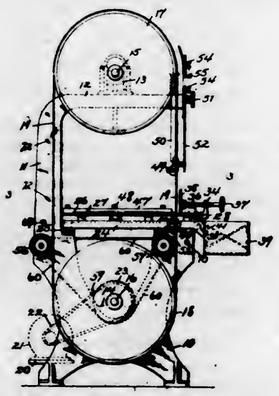
rear face of the wheel and radially movable from the center to the periphery of the grinding wheel, and a bulb connected to the tubular member to feed fluid thereto.

1,384,741. DRIVE MECHANISM FOR MILLS. THOMAS C. CAMPBELL, Owensboro, Ky., assignor to The Anglo-American Mill Company, Owensboro, Ky. Filed Jan. 22, 1920. Serial No. 353,155. 6 Claims. (Cl. 83—12.)



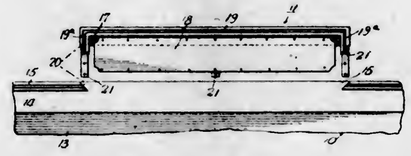
1. In a self contained mill having a roll section and a centrifugal section, pairs of rolls in said roll section, centrifugals in said centrifugal section, a conveyer adjacent each pair of rolls and means for actuating each member of said pairs of rolls in opposite directions and simultaneously actuating said conveyer, said means comprising sprockets associated with each roll and each conveyer and a chain engaging the sprockets of each pair of rollers and the sprocket of the adjacent conveyer.

1,384,742. MEAT-CUTTING MACHINE. JOHN W. CLARK, Alhambra, Calif., assignor of one-half to Henry Almond, Newark, N. J., and one-half to Clark Cutter, Inc., Newark, N. J., a Corporation of New Jersey. Filed July 13, 1920. Serial No. 395,947. 3 Claims. (Cl. 143—25.)



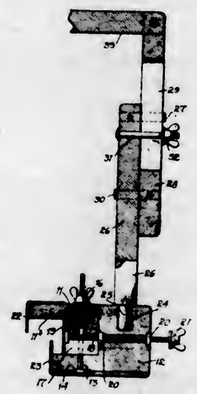
1. A meat cutting machine comprising a frame including a bed, said frame supporting a band saw and its associated mechanism, a sliding table on the frame and between the reaches of the saw and projecting laterally beyond one of said reaches, an open topped receptacle adapted to be secured to the bed adjacent to and below the projecting end of the table, and coacting means on the frame and on the table so disposed that the receptacle when reversed has its bottom substantially level with the table to form an extension thereof.

1,384,743. HEADPLATE FOR SIGNBOARDS. THOMAS CUSACK, Chicago, Ill., assignor to Thos. Cusack Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 22, 1921. Serial No. 463,726. 2 Claims. (Cl. 40—125.)



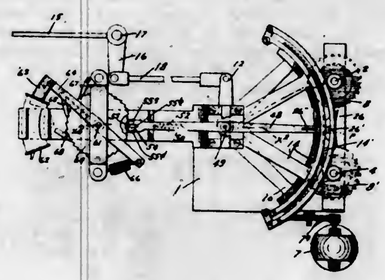
1. In combination with a signboard, which includes a panel and a bar defining said panel at the top, an auxiliary head-bar, a plate attached to the face of said head-bar and depending below the bottom edge of the same, and narrow, vertically extending bars secured to the rear face of said head-bar, said head plate and vertical bars being adapted to engage and to be secured to the opposite faces of the top bar of the sign.

1,384,744. BOOKREST FOR HOSPITAL-BEDS AND CHAIRS. MARTIN L. DODGE, Lake Kushaqua, N. Y., assignor of one-half to Albert E. Paye, Lake Kushaqua, N. Y. Filed Apr. 12, 1920. Serial No. 373,270. 1 Claim. (Cl. 45—82.)



A book rest including an adjustable rest plate and a supporting clamp from which the rest plate is adjustably mounted, said clamp including a pair of L-shaped blocks in adjustable connection with one another, having spaced parallel extensions one of which projects beyond the other, a clamping plate, plates secured to the ends of said block extensions and projecting inwardly therefrom and each opposing a portion of the said clamping plate, and an adjusting member working through a bore in one block and a slot in the other block as and for the purpose set forth.

1,384,745. STEERING MECHANISM FOR DIRIGIBLE BODIES. KENNEDY DOUGAN, Minneapolis, Minn. Original application filed Apr. 21, 1910, Serial No. 556,855. Divided and this application filed Aug. 2, 1915, Serial No. 43,196. Renewed Nov. 22, 1919. Serial No. 339,933. 6 Claims. (Cl. 172—8.)



3. In a torpedo or other dirigible object, the combination with a rudder, of a driving mechanism adapted to turn the rudder, a starting element adapted to start said mechanism, a revoluble cam actuating and controlling said starting element, and means for rotating said cam, said cam having alternate neutral and operative phases to shift said starting element from neutral to operative position, and reversely.

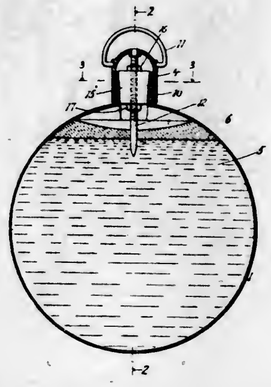
1,384,746. HEATER. MILBOURNE KEITH DUNHAM, New York, N. Y., assignor of one-third to Charles Berg and two-thirds to Willgot Klingberg, New York, N. Y. Filed Jan. 22, 1918. Serial No. 213,128. 6 Claims. (Cl. 257—246.)



2. In a heater for explosive engine driven vehicles, a pipe adapted to be placed in communication with the exhaust pipe of the engine, and extending through the car body, and a casing completely surrounding said pipe and the portions thereof extending through said car body, to form a space between said pipe and casing, and means for admitting water into said casing and means comprising a siphon connection for draining the water from said casing.

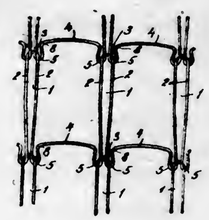
1,384,747. CHEMICAL HEATER. LUIS E. ECKELMANN and GEORGE E. FERGUSON, New York, N. Y., assignors to Pyrene Manufacturing Company, a Corporation of Delaware. Filed Aug. 24, 1917. Serial No. 187,939. 4 Claims. (Cl. 126—263.)

1. A chemical heater comprising a container, a crystallisable salt solution and a sealing material adapted to be melted when heated in said container, the sealing material being of less specific gravity than that of the salt solution and adapted to solidify upon cooling and to form a seal preventing crystallization while said seal remains intact, and a device normally extending through said seal and



into said salt solution and adapted upon withdrawal to rupture said seal and cause the salt solution to crystallise.

1,384,748. WIRE FABRIC. CHARLES EHRLICH, Brooklyn, N. Y.; Max Ehrlich administrator of said Charles Ehrlich, deceased. Filed Sept. 18, 1919. Serial No. 324,456. 1 Claims. (Cl. 245—5.)

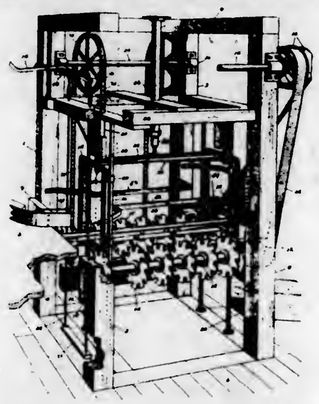


A wire fabric for a bedspring formed of a plurality of long loops, the side elements of the long loops being reversely bent at their lower ends in the plane of the long loops to form a neck, and being again bent outwardly in the plane of the long loops and forming a series of arcuate resilient loops intermediate the respective long loops, in the same plane with the long loops, the said side elements of the long loops being connected at their upper ends by an integral bight portion which is bent downwardly out of the plane of the long loops, said bight being a simple bend which engages against the underside of the neck portion of a long loop of another series.

1,384,749. ICE-SCORING MACHINE. JAMES FAIRHEAD, Toronto, Ontario, Canada, assignor to The Lake Simcoe Ice Supply & Cold Storage Co., Limited, Toronto, Canada. Filed Jan. 26, 1920. Serial No. 353,978. 5 Claims. (Cl. 125—13.)

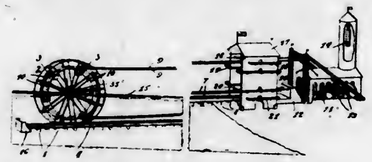
1. In an ice scoring machine, a main frame, parallel horizontal shafts rotatably mounted in bearings in said frame and carrying saws rigid therewith, means for rotating said shafts, an elevator reciprocating on a vertical plane between said shafts and adapted through the weight of ice placed thereon to lower said ice between opposing saws for scoring, said elevator being provided with a tilt-

ing floor, means for tilting said floor for delivering said ice from said elevator, a weight member adapted upon the



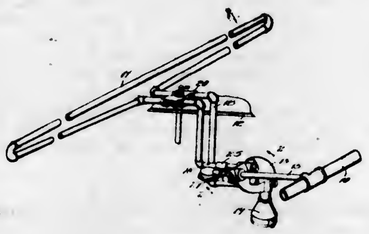
removal of said ice from said elevator to return said elevator to its position above said saws, and a lock for said elevator.

1,384,750. SUBMERSIBLE AMUSEMENT DEVICE. HUGO GERNSBACK, New York, N. Y. Filed Nov. 22, 1920. Serial No. 425,719. 11 Claims. (Cl. 104—78.)



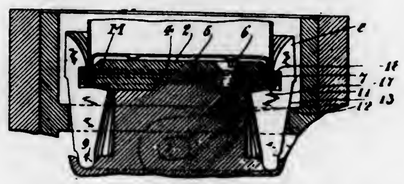
1. In an amusement device, the combination with an inclined track, of a wheel adapted to move along said track, cables for controlling the speed of movement of the wheel down said track, and means for moving the wheel up the track.

1,384,751. STEAM-HEATING APPARATUS FOR RAILWAY-CARS. EGBERT H. GOLD, Chicago, Ill. Filed Mar. 29, 1919. Serial No. 286,026. 2 Claims. (Cl. 237—12.4.)



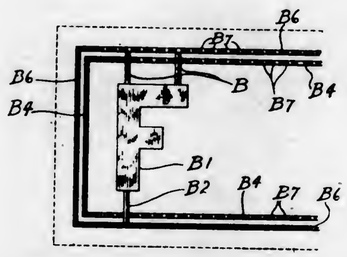
1. In combination with a railway car, a steam train pipe, a radiator in the car having a constantly open outlet, a supply pipe leading from the train pipe to the radiator comprising two sections, a vapor regulator comprising an inlet valve interposed between said sections of the supply pipe, a device to control said valve arranged to be actuated by the medium outflowing from the radiator to maintain steam in the radiator at substantially atmospheric pressure, the supply pipe section between the radiator and the vapor regulator being provided with a drain outlet, and a valve for said outlet controlled by high pressure steam taken directly from the train pipe, which valve is closed when the train pipe is under steam and stands open in the absence of steam pressure in the train pipe.

1,384,752. APPARATUS FOR CONTRACTING RINGS. EDWIN T. GREENFIELD, Kiamesha, and JOHAN GUSTAF V. LANG, New York, N. Y., assignors to Greenfield Paper Bottle Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 28, 1915. Serial No. 53,086. 15 Claims. (Cl. 113—18.)



1. A press comprising an anvil, a contractible spiral pressing ring surrounding the anvil, a series of pressing members arranged about said ring, and means for forcing said pressing members toward said anvil into engagement with the ring so as to contract the same, said pressing members having a portion that projects under said anvil.

1,384,753. ILLUMINATED DISPLAY APPARATUS. ALBERT GREENWOOD, Knoxville, Tenn. Filed May 13, 1918. Serial No. 234,298. 8 Claims. (Cl. 40—140.)

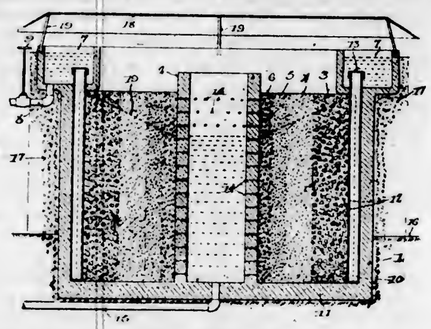


1. In an apparatus of the nature described, the combination of substantially opaque display objects, supporting means extending upward and downward from said display objects, and two superposed parallel members having along their length equally spaced recesses all adapted to receive any of said supporting means, substantially as described.

1,384,754. FILTER AND PROCESS OF FILTERING. JOHN H. HANSEN, Milwaukee, Wis. Filed Jan. 10, 1920. Serial No. 350,571. 8 Claims. (Cl. 210—126.)

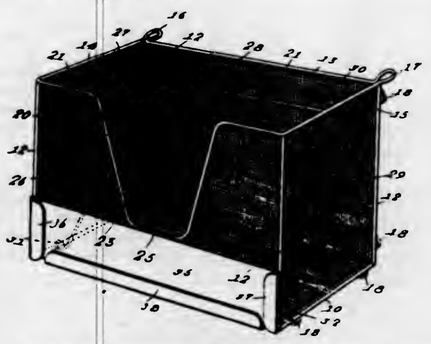
1. A filter comprising a plurality of vertical filtering walls, means for passing the water substantially horizontally therethrough, said filtering walls being exposed to the air at one end.

6. The process of filtering water, which process consists of passing the water in a substantially horizontal direction through filtering and oxygen absorbing material, and allowing oxygen to pass into said material, the line of flow of



the oxygen being substantially at right angles to that of the water.

1,384,755. FILE-BASKET. JOSEPH PAYNE HALL, Sanford, Fla. Filed Aug. 19, 1919. Serial No. 318,455. 1 Claim. (Cl. 129—32.)

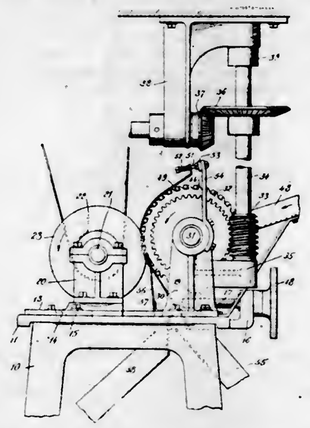


A receptacle comprising a rigid metallic frame, one element of which is of U formation, said frame including an approximately rectangular structure forming the upper portion of the frame, certain of the corners of the rectangular structure being formed into loops permitting of the connection of several receptacles in series, wire mesh connecting the various elements of the frame and providing front, rear, side and bottom walls, the front wall being cut away to conform to the U shaped frame element, a follower within the receptacle, springs connected with the follower and connected with structural elements of the frame, said springs retaining the follower in intimate contact with the contents of the receptacle, for holding records and the like in an approximately vertical position and a label holder extending across the front wall below the U portion, said U portion, label holder and front and rear walls permitting exposure of papers filed in vertical position, from both sides of the follower.

1,384,756. CARBON-CUTTING MACHINE. CARL HAMBUECHEN, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio, a Corporation of New York. Filed Oct. 18, 1917. Serial No. 197,197. 7 Claims. (Cl. 125—13.)

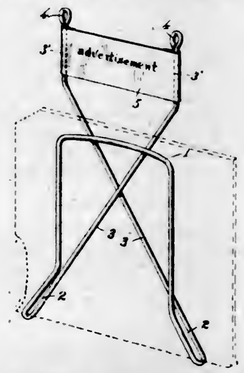
1. In apparatus for cutting rods, the combination of a plurality of cutting disks, a spindle, a drum mounted upon the spindle, a plurality of rings surrounding the drum and provided with alined notches for receiving rods, means for preventing rotary displacement of said

rings with respect to the drum and each other while permitting longitudinal adjustment thereof upon the drum relatively to each other, means for fastening the rings in



any desired position of longitudinal adjustment upon the drum, and means for rotating the spindle to cause such rod-receiving rings to convey rods into position to be cut by said disks.

1,384,757. PLACARD-SUSTAINING MEANS. WILLIAM E. HARRISON, Union City, Ind. Filed Apr. 21, 1921. Serial No. 463,133. 2 Claims. (Cl. 40—151.)

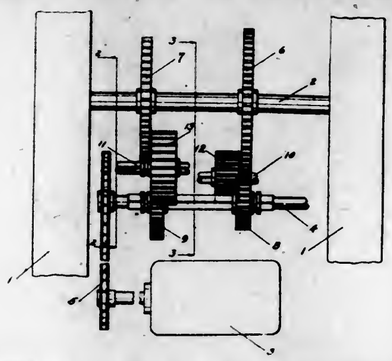


1. Placard sustaining means comprising an upstanding, bail-like frame terminating at its lower portions in laterally inclined return loops, the material of which the said frame is made being extended in each instance beyond the loops to form crossing arms lying in the rear of the bail-like frame, and the upper portions of the arms being formed into support engaging means, the arms being arranged sufficiently contiguous to the bail-like frame both at the lower portion of the frame and at the upper portion thereof for gripping a card introduced between the bail-like frame and the arms at both of said points.

1,384,758. VARIABLE-SPEED GEARING. WALTER H. HIMES, Grove City, Pa., assignor to Himes Cohen Tractor Co., Grove City, Pa. Filed Mar. 1, 1919. Serial No. 280,122. 3 Claims. (Cl. 74—58.)

3. In a gearing, the combination of driving shaft, a driven shaft, a driven gear fixed to said driven shaft, a driving gear so disposed on said driving shaft as to permit longitudinal movement into and out of mesh with their

coacting driven gear, said driving gear having an excess width over that of the driven gear, a reverse gear so



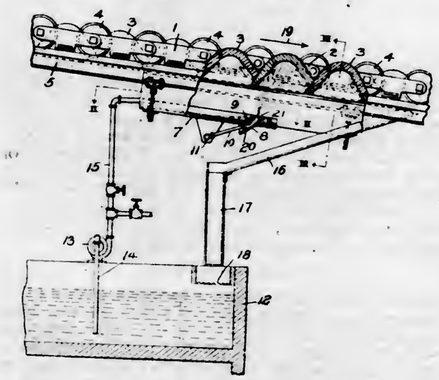
mounted and so disposed as to maintain continuous mesh with the coacting driving gear regardless of whether driving gear or reverse gear is in mesh with driven gear.

1,384,759. VEHICLE-TIRE. EDISON G. HULSE, Cumberland, Md., assignor to Kelly-Springfield Tire Company, Cumberland, Md., a Corporation of New Jersey. Filed Dec. 29, 1920. Serial No. 433,910. 4 Claims. (Cl. 152—14.)



1. A tire tread of resilient material, comprising a substantially flat surface in cross section, a continuous annular mid-rib, and resilient counterpart raised and spaced-apart traction pads on each side of said rib, said pads, in plan view, forming cruciform patterns adapted to remain continuously in contact with the road surface throughout their period of traction and to yieldingly clutch the road bed momentarily under the tangentially imparted traction stresses.

1,384,760. APPARATUS FOR COATING PIG-METAL-CASTING MACHINES. WILLIS T. HURST, Pittsburgh, Pa., assignor to Slag Rock Machine Company, a Corporation of Pennsylvania. Filed Feb. 16, 1920. Serial No. 358,892. 5 Claims. (Cl. 22—88.)



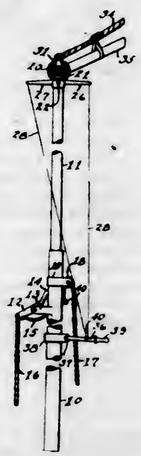
1. The combination with a pig metal casting machine, of an apparatus for coating the molds thereof with a liquid composition, said apparatus comprising means for maintaining a flowing stream of said composition adjacent to said mold, and means for projecting a jet of fluid upon said stream of composition to impel it upon the molds.

1,384,761. CABLE-TIE HANGER. JAMES H. JESSUP, Salem, Ohio. Filed Apr. 14, 1920. Serial No. 373,837. 13 Claims. (Cl. 294—22.)



1. In a cable tie hanger, an extensible member comprising telescopic tubes, one of said tubes carrying work holding means, means for moving said work carrying tube from one end of the other tube, and means operable from said end for holding said work carrying tube in position.

1,384,762. CABLE-TIE-CLAMPING DEVICE. JAMES H. JESSUP, Salem, Ohio. Original application filed Apr. 14, 1920, Serial No. 373,837. Divided and this application filed Nov. 29, 1920. Serial No. 426,953. 9 Claims. (Cl. 294—19.)



1. In a device of the class described, the combination with an extensible support, of movable clamping members carried by the support, and means associated with the support for operating said members and means for extending said support.

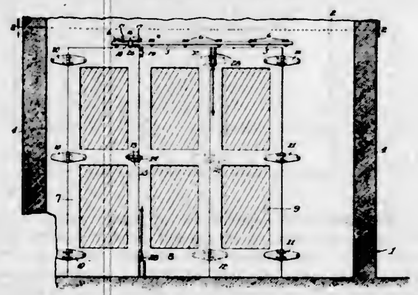
2. In a cable tie hanger, the combination with a telescopic extension device, of jaws pivotally secured to one of said telescopic members, and means for actuating said jaws.

3. In a cable tie hanger, the combination with an extensible supporting means, of jaws pivotally secured thereto, a lever pivotally secured to the lower portion of said extensible means, connecting means between said jaws and said lever.

4. In a cable tie hanger, the combination with an extensible supporting device, of movable jaws carried thereby, and pivoted means connected with said device for operating said jaws.

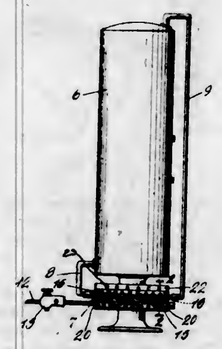
5. In a cable tie hanger, the combination with extensible supporting means, of clamping jaws pivotally secured thereto, a lever carried by the supporting means, and means connecting the lever with the clamping jaws.

1,384,763. DOOR-HANGER. BURTON S. JORDAN, Ottawa, Ill., assignor to J. E. Porter Company, Ottawa, Ill., a Corporation of Illinois. Filed July 28, 1919. Serial No. 313,784. 4 Claims. (Cl. 20—20.)



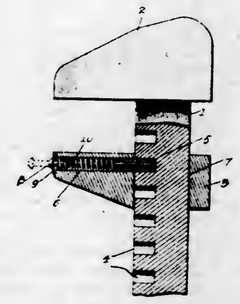
1. In a door structure, the combination of a straight track rigidly mounted parallel to and above the door opening, a plurality of doors hinged together, there being an inner door and an outer door and the latter hinged to a stationary support at one side of the door opening, a roller carriage mounted to travel on said track, a carrier secured to said roller carriage and extending downward therefrom, a bracket secured to said inner door, and a horizontal arm arranged at right-angles to said bracket and extending between the same and said carrier, said arm having pivotal connection with said carrier and rigid, non-rotative connection with said bracket.

1,384,764. COMBINED AIR AND WATER HEATER. WALTER M. KEIGHLER, Philadelphia, Pa. Filed Dec. 22, 1920. Serial No. 432,534. 1 Claim. (Cl. 126—133.)



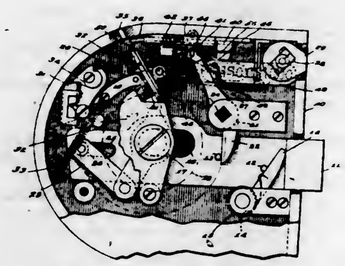
A combined water and air heater comprising an outer horizontal semicircular shell consisting of two plates and an interposed sheet of heat-insulating material, said shell having air inlets near its lower edge, an inner semicircular drum extending horizontally within the shell and spaced therefrom, the lower edge of the drum being secured to the lower edge of the shell and the upper edge of the drum being spaced from the upper edge of the shell, whereby the space between the drum and shell increases in width toward said upper edges, a gas burner pipe extending across the lower part of the drum, and a water pipe extending across the drum, above said burner pipe.

1,384,765. WRENCH. ELMER THEODORE KNITTER, Cleveland, Ohio. Filed July 7, 1920. Serial No. 394,513. 2 Claims. (Cl. 81—145.)



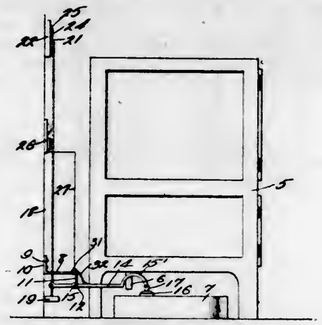
1. A wrench comprising a shank having spaced sockets, a jaw slidable on said shank and having an opening extending out through one end, a pin slidable in said opening and adapted to extend into said sockets whereby to hold the jaw against sliding movement in either direction, a rod connected to said pin and having a head arranged exteriorly of the jaw, a nut threaded on said jaw, a spring confined between said nut and said pin and urging the head of said rod in the direction of said jaw and urging said pin into one of said sockets, and a fixed jaw connected to said shank.

1,384,766. COIN-CONTROLLED LOCK. NICHOLAS KRETZER, Louisville, Ky. Filed July 30, 1919. Serial No. 314,272. 4 Claims. (Cl. 194—74.)



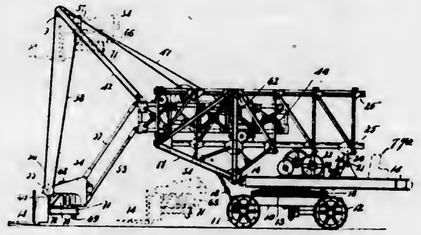
1. In a coin-controlled lock, a coin slot guard comprising a longitudinally movable guard plate, a guide therefor, a lever engaging said guard to produce longitudinal movement thereof, interengaging members, one of which is carried by the guard for holding the guard in projected position, and means for yieldingly urging the lever in one direction and for urging one of said interengaging members to active position.

1,384,767. INDICATOR AND ALARM FOR REFRIGERATOR DRIP-PANS. WILLIAM M. KURZ, Newark, N. J. Filed Nov. 26, 1919. Serial No. 340,864. 1 Claim. (Cl. 116—118.)



A signaling device for refrigerator drip pans comprising a bracket having its ends bent at right angles in opposite directions to each other, one of said ends being secured to an object adjacent the pan, a lever pivotally connected, adjacent one end, to the other end of the bracket, a float at the extreme end of the lever, a vertical movable rod passing through the bracket and opposite end of the lever, a weight at the lower end of the rod to balance the float, and indicating means connected with the upper end of the rod, operable by movement of the float.

1,384,768. REVOLVING CRANE FOR BRICK-HANDLING. GRAFTON E. LUCE, Chicago, Ill. Filed Aug. 16, 1919. Serial No. 317,872. 5 Claims. (Cl. 214—6.)



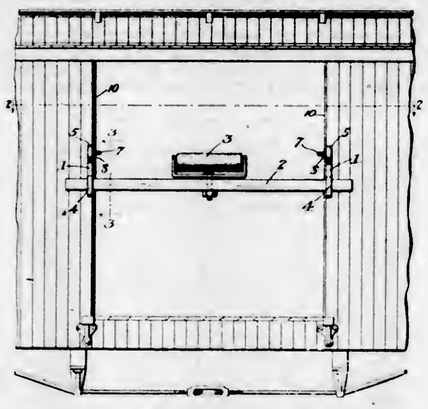
1. Apparatus of the kind described comprising, a rotatably mounted table, a carriage mounted for forward and backward movement thereon, a boom carried by said carriage, a frame suspended from said boom, and links connecting said frame and said carriage to maintain the same parallel to each other.

1,384,769. ELECTRIC GUN. FREDERICK B. MACLAREN, Jersey City, N. J., assignor to Electric Gun Corporation, Philadelphia, Pa., a Corporation of Delaware. Filed Mar. 16, 1916. Serial No. 84,674. 13 Claims. (Cl. 172—285.)



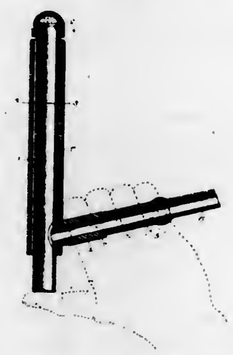
3. The method of shooting projectiles which consists in establishing a field traveling in the direction of flight by means of polyphase currents, and applying the accelerating motor effect of that field to the projectile to shoot it through the air.

1,384,770. TIMBER-ROLLER-SUPPORTING DEVICE FOR CARS. JACOB MANSON MATTIX, Louise, Miss. Filed June 3, 1920. Serial No. 386,158. 4 Claims. (Cl. 193—36.)



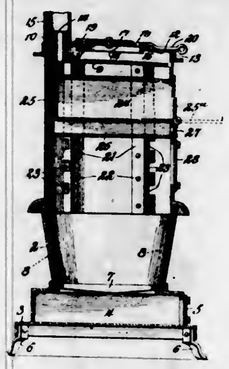
1. An adjustable support for a timber roller beam, adapted to be secured to the upright member of a car door frame or the like, comprising a bracket, means for supporting said beam on said bracket, a hooked member coöperating with said bracket, one end of which is adapted to engage the bracket and the other end the upright member of the car door frame, for securing said bracket in its adjustable position.

1,384,771. DOUBLE-CURRENT SYRINGE. JOSEPH KINNEY MITCHELL, Los Angeles, Calif. Filed Apr. 9, 1920. Serial No. 372,482. 3 Claims. (Cl. 128—240.)



1. A device of the character specified comprising a tubular casing having one end open and having the other provided with a detachable spray head, said casing having a lateral branch near the open end for connection with the source of liquid supply, the open end of the casing being adapted to be closed by the thumb to provide either irrigation or drainage, and a jacket supported by the lateral branch and inclosing the tubular casing in spaced relation to provide a discharge passage about the tubular caring, said jacket being spaced apart from the spray cap at its inner end.

1,384,772. STOVE. CARL JOSEF MITISKA, Howell, Ind. Original application filed May 21, 1920, Serial No. 383,278. Divided and this application filed Jan. 13, 1921. Serial No. 437,026. 4 Claims. (Cl. 126—4.)

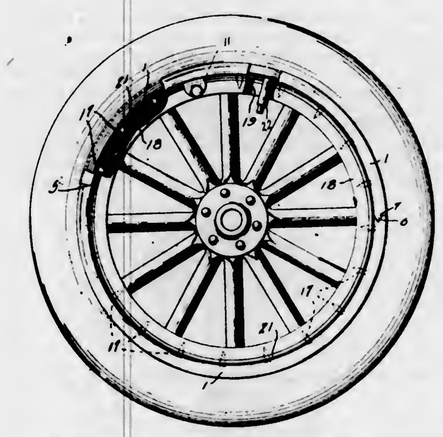


1. In a stove, the combination with a fire pot, and a drum supported upon the same, a bake oven carried within the drum above the fire pot and wholly inclosed thereby and in spaced relation with the walls of the drum, said bake oven being provided with a damper-controlled cold air passage open at its inner end and arranged beneath the oven with means to allow cold air to pass between the oven and the fire in order to regulate the effects of the latter upon the oven.

1,384,773. UTILIZING VULCANIZED WASTE RUBBER. STUART B. MOLONY, Wellesley Hills, Mass. Filed Mar. 30, 1918. Serial No. 225,803. 12 Claims. (Cl. 18—52.)

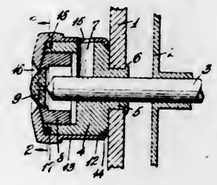
12. As a new article of manufacture semi-hard rubber containing fabric produced from soft vulcanized rubber containing fabric, by impregnating with sulfur the contained fabric in the soft vulcanized rubber, and subjecting to a vulcanizing temperature for a sufficient time to vulcanize the soft rubber semi-hard.

1,384,774. DEMOUNTABLE RIM. CLYDE V. NACHAND and EDWIN M. RAHM, Jeffersonville, Ind. Filed Oct. 14, 1920. Serial No. 416,873. 2 Claims. (Cl. 301—17.)



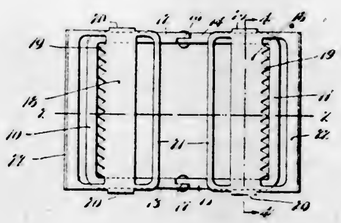
1. In a device of the class described, the combination of a rim having spaced arcuate locking recesses extending part way into the inner surface of the rim from one side thereof, a felly having similarly spaced locking lugs positioned to releasably engage in the aforesaid locking recesses, the felly having a longitudinal slot to permit of shifting the rim and tire valve longitudinally relative to the felly, the rim having diagonally slotted portion, and a wedge plate member slidable into the said diagonally slotted portion in the rim, whereby to permit of readily securing the rim in place and readily detaching same.

1,384,775. LUBRICATING DEVICE. CHARLES T. PFLUEGER, Akron, Ohio, assignor to The Enterprise Manufacturing Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 2, 1919. Serial No. 328,021. 2 Claims. (Cl. 64—24.)



1. A fishing reel provided with a frame including an end head, a spool having a shaft extending through said head, a journal bearing member secured to said end head and in which said shaft rotates, an end bearing member for said shaft adjustable endwise thereof in said journal bearing member, and a cap inclosing and rotatable on said journal bearing member and permanently attached thereto and arranged when attached to prevent adjustment of said end bearing member.

1,384,776. CLAMP-BUCKLE. JOSEPH POSTERNOCK, Walpole, Mass. Filed Feb. 19, 1921. Serial No. 446,432. 1 Claim. (Cl. 24—194.

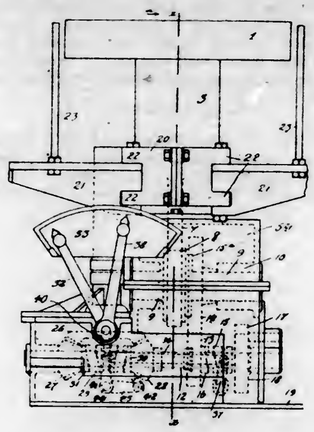


A clamp buckle comprising a pair of substantially U-shaped members hinged together to form a substantially rectangular articulated frame, a toothed plate slidably mounted on said members, and having the teeth adapted to engage with the cross bars of said U-shaped members, an angular guiding plate for each toothed plate lying parallel to said teeth and on the opposite side of the said cross bars, and a bar parallel to each of said guiding plates and on the opposite side of said teeth.

1,384,777. FOUNDRY MOLDING-MACHINE. PERCY PRITCHARD, Birmingham, England. Filed Jan. 28, 1920. Serial No. 354,600. 8 Claims. (Cl. 22—45.)

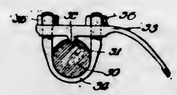
3. A foundry molding machine comprising a molding table or pattern plate, a driving shaft, means for impart-

ing a jarring action to the molding table driven from said shaft, and means for withdrawing the mold which



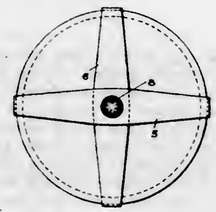
means are driven from said driving shaft, substantially as set forth.

1,384,778. GRIPPER MECHANISM. FRANK E. RICH, Chicago, Ill., assignor to Miehle Printing Press and Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Apr. 26, 1919. Serial No. 292,904. 8 Claims. (Cl. 101—412.)



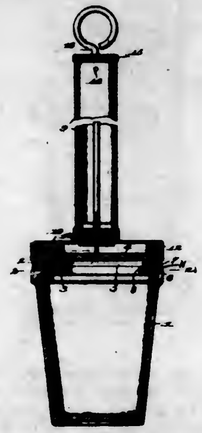
1. In gripper mechanism, the combination of a support having a groove, and a gripper having a projection cooperating with said groove in a manner whereby the gripper is rockably adjustably mounted on said support.

1,384,779. PISTON-RING TOOL. JULIUS O. ROBERTS, Abilene, Kans. Filed June 4, 1920. Serial No. 386,560. 4 Claims. (Cl. 29—86.4.)



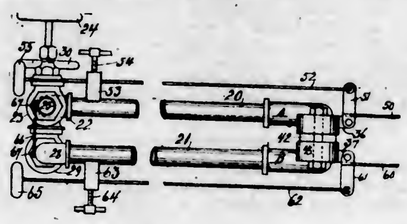
1. In a tool for applying piston rings, a pair of pivotally connected arms, each of the arms having a right angled extremity adapted to overlie a portion of the periphery of a piston, and means for adjusting the right angled ends with relation to the arms.

1,384,780. PUMP FOR FRUIT-JARS AND THE LIKE. SIDMOR S. SAGER, Buffalo, N. Y. Original application filed June 25, 1919, Serial No. 306,718. Divided and this application filed June 22, 1920. Serial No. 390,738. 2 Claims. (Cl. 230—27.)



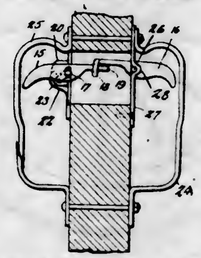
1. A pump comprising a cylinder, a piston working in said cylinder, a cupped element secured to said cylinder, a resilient washer removably seated in said element, and a spring for securing said resilient washer in place.

1,384,781. LIQUID-FUEL BURNER. RAPPEL SCHAWROW, Bayonne, N. J. Filed July 30, 1919. Serial No. 314,316. 6 Claims. (Cl. 158—75.)



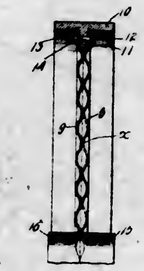
1. In a liquid fuel burner the combination of a pipe for a vaporizing agent and a liquid fuel pipe, an outlet port coacting with each pipe and an adjustable wing spaced from each port to control the direction and mixture of the discharged liquid fuel and vaporizing agent after being discharged from their outlet ports.

1,384,782. LATCH. EDWARD SCHRUTH, ALBERT SCHRUTH, and JOHN F. SCHRUTH, Pepin, Wis. Filed July 12, 1920. Serial No. 395,804. 5 Claims. (Cl. 292—241.)



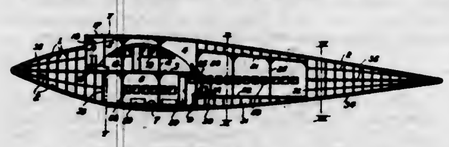
1. In a locking bolt for doors, a plate having a bolt bearing and an extension forming a shield, a bolt rotatable in the bearing and having a crank extension overlying the shield, a bolt engaging member, and means for partially rotating the said bolt.

1,384,783. VEHICLE-WHEEL, &c. BENJAMIN F. SEYMOUR, Washington, D. C. Filed July 20, 1918. Serial No. 245,857. 6 Claims. (Cl. 301—63.)



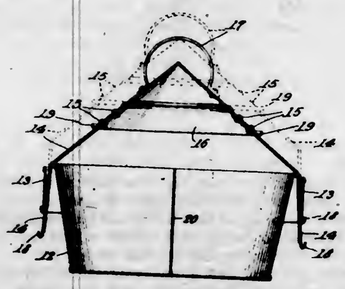
1. A wheel of the character described constructed of metal plates having parallel corrugations, and having the corrugations of the respective plates crossing, substantially as set forth.

1,384,784. AIRPLANE-BODY. JAMES L. SHANKLAND, Toronto, Ontario, Canada. Filed Aug. 23, 1919. Serial No. 319,375. 3 Claims. (Cl. 244—30.)



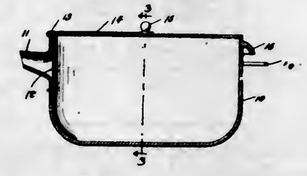
1. A flying machine body having superposed floors entirely within said body providing an engine room and a pilot room and an upper cabin above the engine room with the pilot room on the same plane as the upper cabin and overhanging the forward end of the engine room, said machine body having the walls thereof inset to provide decks at the upper cabin, and a floor and ceiling in the rear of said superposed floors providing a lower cabin of greater depth than said engine room and communicating with said upper cabin and said engine room.

1,384,785. RECEPTACLE FOR FEEDING AND WATERING POULTRY. CHARLES S. SHEPARD, Cattaraugus, N. Y.; Minerva A. Shepard executrix of said Charles S. Shepard, deceased. Filed Sept. 2, 1920. Serial No. 407,787. 2 Claims. (Cl. 119—61.)



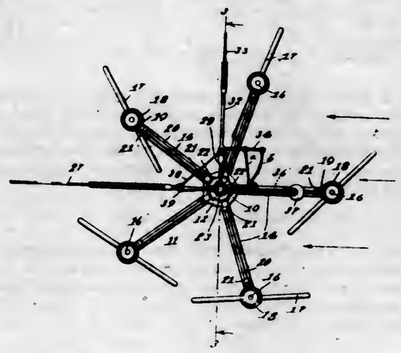
1. A receptacle, for the purpose indicated, consisting of an open topped pan provided at its outer sides with brackets open from top to bottom, a guard provided with spring arms passing downward through the said brackets and by means of which the said guard may be supported in different positions of adjustment by frictional contact of the said spring arms with the outer portions of said brackets.

1,384,786. COOKING VESSEL. MABEL L. THOMPSON, New York, N. Y., assignor of one-half to Rebecca Woods, New York, N. Y. Filed Dec. 9, 1920. Serial No. 429,439. 5 Claims. (Cl. 53—8.)



1. A cooking vessel having a transverse pivotally connected supporting bail and, in diametrically opposite positions, an outlet and a handle arranged in a plane perpendicular to the axis of the supporting bail, the upper edge or rim of the vessel above the outlet and extending rearwardly at the sides of said rim being provided with a seat for the reception of the peripheral edge of a vessel cover.

1,384,787. WINDMILL. WILLIAM R. TWIFORD, Manville, Wyo. Filed Oct. 13, 1919. Serial No. 330,217. 2 Claims. (Cl. 170—24.)



1. A wind mill embodying a fan having rotatably mounted fan blades, a main governing vane, a supplemental governing vane, said supplemental governing vane being geared to the fan blades and mounted for horizontal pivotal movement and including an L-shaped arm positioned upon one side of the pivot, a weighted cable connecting the vanes and means connecting the L-shaped arm and cable for controlling the position of the supplemental vane.

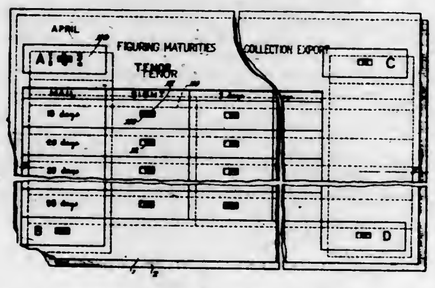
1,384,788. TYPEWRITING-MACHINE. RICHARD W. UHLIG, Arlington, N. J., assignor to Allen Typewriter Company, Allentown, Pa., a Company of Pennsylvania. Filed Oct. 13, 1917. Serial No. 196,374. 6 Claims. (Cl. 197—121.)

2. In a typewriting machine, the combination with a to and fro movable carriage and a platen rotatably carried thereby, of a paper table pivotally supported by the carriage having a part extending below and conforming to the curvature of the platen and carrying a roller at the forward end thereof; a spring to yieldingly urge the table to position with the roller in engagement with the platen;

a lever fixed to the table support operable to rock the support and move the table to position with the roller carried thereby out of engagement with the platen; and releasable latching means operable by the movement of the lever to lock the lever and thereby the table in position with the roller carried thereby out of engagement with the platen.

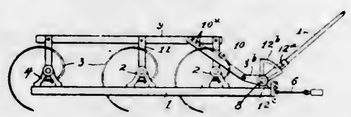


1,384,789. CALCULATOR FOR MATURITIES. CARLOS VILLEGAS, Brooklyn, N. Y. Filed May 1, 1919. Serial No. 294,106. 6 Claims. (Cl. 283—2.)



1. A means for obtaining dates of maturity, comprising a table for a given month having the maturity dates arranged in groups, said groups being arranged in intersecting columns and rows according to the tenor and time in the mail of the instrument, the order and arrangement of the dates being the same in all groups.

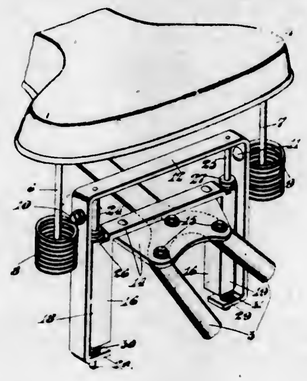
1,384,790. TRACTOR-DRAWN TILLAGE IMPLEMENT. FREDERICK C. WARNE, Mansfield, Ohio, assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio, a Corporation of New Jersey. Filed Dec. 4, 1918. Serial No. 265,303. 8 Claims. (Cl. 55—104.)



1. In a harrow, including flexibly connected transversely arranged master and auxiliary sections, tooth bar actuators on each section flexibly connected to each other, and actuator moving and adjusting means positioned on said master section, said tooth bar actuators on each section being independently adjustable for alining the teeth of said master and auxiliary sections.

1,384,791. MOTORCYCLE-SADDLE. CHARLES A. WATERMAN, Boston, and HUBERT F. SMITH, Medford, Mass., assignors to General Motorcycle Sales Company, Boston, Mass., a Corporation of Massachusetts. Filed May 14, 1919. Serial No. 296,997. 2 Claims. (Cl. 208—15.)

1. A motor cycle saddle comprising a seat, posts at opposite sides of said saddle supporting the seat, two tension springs encircling, respectively, said posts and supporting the posts, a frame to which the upper ends of said springs are secured, a truss constructed to be secured to a motor cycle and having two vertical housings mounted respectively at opposite sides thereof, coiled springs mounted in



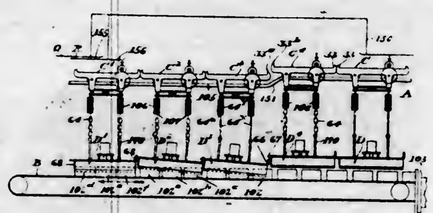
said housings, posts extending through said springs and supporting said frame for upward and downward movement relatively to the truss, and additional springs between said truss and frame for yieldingly resisting the upward movement of the frame relatively to the truss.

1,384,792. POWER-LIFT PLOW. LEWIS E. WATERMAN, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed Dec. 16, 1915. Serial No. 67,201. 5 Claims. (Cl. 97—59.)



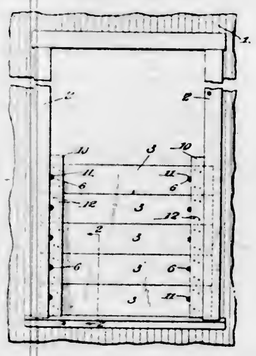
1. In a power lift plow, the combination of a plow, a ratchet wheel, a plow lifting rod, a pivoted arm connected to the forward end of said lifting rod and equipped with a pawl adapted to engage said ratchet wheel and thereby lift the plow by movement of said lifting rod beyond a dead-center position, and a revolving tappet arranged to move the pawl into engagement with the ratchet wheel and to subsequently actuate the lift rod for releasing the same from said position whereby the plow is free to lower.

1,384,793. HOISTING AND CONVEYING GRAPPLE. BERNARD F. WEBER and FRANK E. WOODFORD, Chicago, Ill.; said Woodford assignor, by mesne assignments, of his right to Raymond C. Penfield, New York, N. Y. Original application filed Feb. 24, 1910, Serial No. 545,616. Divided and this application filed Aug. 8, 1910. Serial No. 576,171. 21 Claims. (Cl. 294—63.)



1. A conveyer comprising, in combination, a car, a grapple pivoted to the car for horizontal rotation, normally resting in a predetermined position and mounted to be turned at an angle thereto, means for yieldingly holding said grapple in said predetermined position, and automatic means for returning the grapple to its original relation to the car when it is turned therefrom.

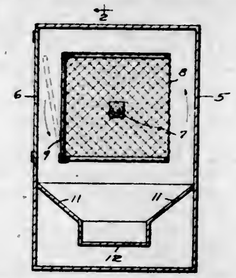
1,384,794. GRAIN-DOOR FASTENER. CHARLES WING, Aurora, Ill. Filed Sept. 13, 1920. Serial No. 409,839. 6 Claims. (Cl. 292—24.)



1. A grain door fastener for cars comprising a fitting attached to the jamb, a fitting secured to the closure, and a connecting member having ends adapted to be engaged with said fittings respectively, both ends being hook-shaped, but one of them having its terminal portion extending substantially parallel to the shank, while the tip of the other hook projects transversely of said shank; and means removably secured in position adjacent the latter hook for holding it in engagement with the fitting.

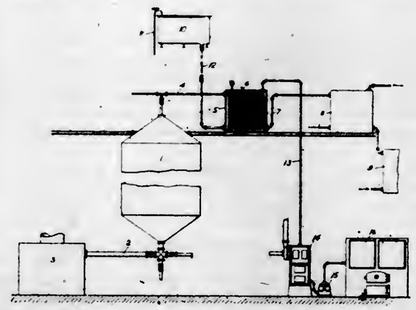
1,384,795. CEMENT-BAG CLEANER. JOSEPH WIRTH, Fond du Lac, Wis. Filed Mar. 11, 1921. Serial No. 451,625. 1 Claim. (Cl. 83—60.)

A cement bag cleaning apparatus comprising a box like casing having a door in the front side thereof, a receptacle square in cross section all of the sides of which are formed of screen material and one of said sides being hingedly connected to said receptacle to swing outwardly and downwardly through the front of the box like casing, when the door of said casing is open, to thereby permit of the charging of cement bags to be cleaned into said receptacle through the front wall of the casing and across said hinged side, means for rotating the recep-



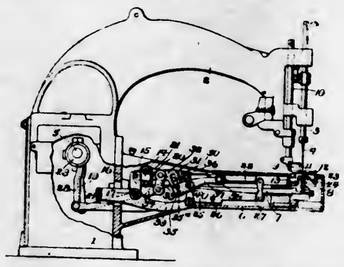
tacle within the casing and a door in the casing near the bottom thereof to permit of the removal of the cement dislodged from bags placed in the receptacle.

1,384,796. HEAT-RECLAIMING SYSTEM FOR PULP-MILLS. GEORGE S. WITHAM, Jr., Hudson Falls, N. Y. Filed July 15, 1916. Serial No. 109,456. 4 Claims. Cl. 92—11.)



1. A heat reclaiming system for pulp mills comprising one or more digesters provided with means for relieving gases therefrom during the digestion, means for bringing a regulable stream of liquid to be heated into heat interchanging relation with said gases while still at a high temperature, and automatic regulating means for regulating said stream of liquid in accordance with the temperature of the heated liquid; substantially as described.

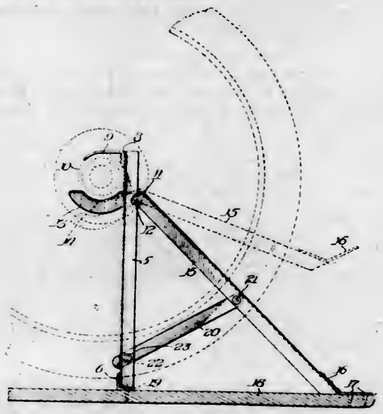
1,384,797. FEEDING MECHANISM FOR SEWING-MACHINES. AUGUST J. WOHLFART, New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 7, 1915. Serial No. 944. 8 Claims. (Cl. 112—209.)



1. In a sewing machine, the combination of a standard, a work-supporting arm projecting therefrom and a feed-

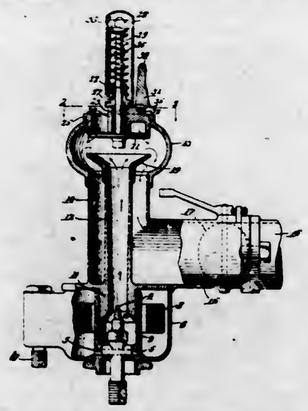
ing mechanism located within said work-supporting arm for feeding the material longitudinally thereof, said feeding mechanism including a main feed bar, a feed dog carried thereby, a sleeve embracing said main feed bar and capable of endwise movement thereon, an auxiliary feed dog carried by said sleeve, means for moving said sleeve endwise in unison with the main feed bar or for giving a differential movement to said sleeve, means under the control of the operator for giving to said sleeve said differential movement or for causing the same to move in unison with the main feed bar, said last named means including a lever located in said work-supporting arm, a rock lever pivoted to said standard and connected to said lever, and a manually-operated member connected to said rock lever.

1,384,798. AUTOMOBILE-SUPPORT. PHILIP DEBROW, Chicago, Ill. Filed Feb. 5, 1921. Serial No. 442,663. 6 Claims. (Cl. 254—120.)



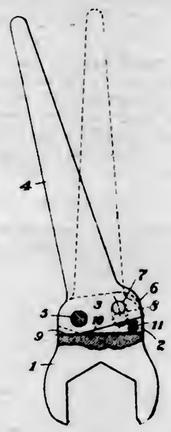
1. An automobile support of the character described, comprising a vertical standard, a lever pivoted on said standard, said lever having a short arm adapted to liftingly engage beneath an axle and a long arm serving as a brace and means for attaching the lower end of said long arm to the floor.

1,384,799. CARBURETER. WILL E. DEWEY, Rockford, Ill. Filed Jan. 17, 1917. Serial No. 142,820. 3 Claims. (Cl. 261—63.)



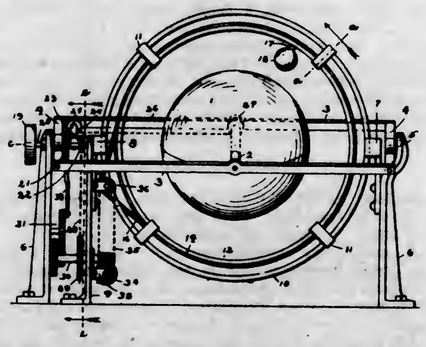
1. In a carbureter, the combination of a primary mixture tube, a secondary mixing chamber having an air inlet port and a mixture outlet, an inwardly opening disk valve for said port, said tube extending into said mixing chamber through the mixture outlet end thereof, a fuel nozzle in said tube, and a distributing disk within the mixing chamber at the discharge end of the primary mixture tube, co-axial with the disk valve and positioned between the valve and mixture outlet, whereby the primary mixture will be radially distributed by said plate and will be drawn into a peripheral body of secondary air in the mixing chamber and thence through the mixture outlet in the opposite direction from that in the primary mixture tube.

1,384,800. WRENCH. OSWALD DUDA, Houston, Tex., assignor to Reed Roller Bit Company, a Corporation of Texas. Filed Dec. 23, 1920. Serial No. 432,641. 5 Claims. (Cl. 81—98.)



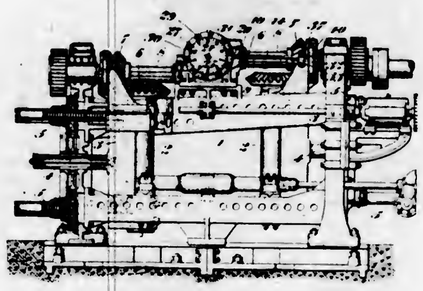
1. A wrench comprising a head having a pair of rigid jaws to engage the object, a handle pivoted to the head to one side of the center line between the jaws and having a lateral extension from said pivot reaching across the center line and adapted, when the handle is turned on its pivot, to rock to and from the head, said extension contacting with the head after the handle has moved freely through a certain arc in the direction to turn the object.

1,384,801. EDUCATIONAL APPARATUS. LORENZO FERRARI, Oakland, Calif. Filed June 9, 1919. Serial No. 302,715. 8 Claims. (Cl. 35—3.)



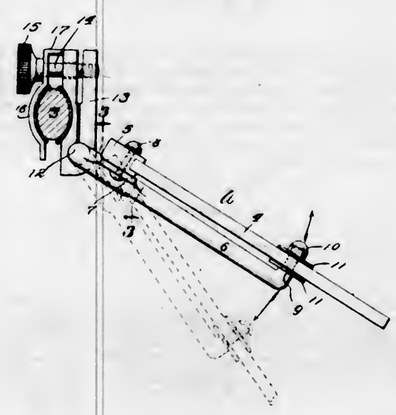
1. An orrery comprising a globe mounted in a frame and adapted to rotate therein, a ring rotatably mounted around said globe, a sphere mounted on said ring and adapted to be revolved thereby about said globe, and means for giving said motions to said members.

1,384,802. DIAL-INDICATOR. HARRY R. GEER, Johnstown, Pa. Filed Jan. 16, 1920. Serial No. 351,832. 10 Claims. (Cl. 80—56.)



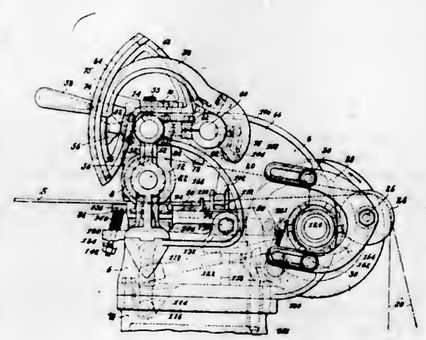
10. The combination with a pair of adjustable rolls each mounted in a movable housing, of a continuous visual indicator comprising a fixed pointer, rotatable dials, a threaded sleeve provided with gears meshing with gears on the rotatable dials, and an operating screw mounted within the threaded sleeve and attached to one of the movable roll housings whereby it is adpated to rotate the dials to indicate at all times the distance apart of the adjustable rolls.

1,384,803. WINDSHIELD ATTACHMENT OR DEFLECTOR FOR AUTOMOBILES AND THE LIKE. WILLIAM L. HOWE, Overland, Mo. Filed Mar. 24, 1920. Serial No. 369,257. 3 Claims. (Cl. 296—95.)



1. An attachment of the class described including, in combination, a shield, resilient hinge-members, supporting-brackets secured to the shield and having engagement for swingable adjustment with the hinge-members, and means comprising bolts having engagement with the hinge-members only for conjointly clamping the hinge-members upon an automobile and the brackets and their supported shield in adjustably swung position.

1,384,804. MACHINE FOR PREPARING INSOLES. ALBERT E. JOHNSON, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 30, 1914. Serial No. 874,718. 26 Claims. (Cl. 12—17.)



1. A machine for preparing soles, having, in combination, a sole support, gouging knives mounted adjacent the support to simultaneously operate on opposite margins of the sole, and means for moving the support to present a sole to the knives and draw the support past the knives to gouge out the margin of the sole adjacent the breast line.

2. An insole preparing machine having, in combination a support for a welt insole blank, means for positioning an insole upon the support, cutters relatively immovable toward and from the work supporting face of the support mounted opposite the support in position to gouge out a portion of the surface of the insole adjacent the breast line on each side of the shank of the between the edge and the material of the between substance, and means to move the support toward the cutters to gouge the insole.

3. A sole preparing machine, having, in combination, a support for locating the heel portion of a sole, and rotary knives mounted on an axis substantially parallel with the face of the support and relatively immovable toward and from the work supporting face of the support, for gouging the margin of the sole adjacent the shank, and means for moving the support and knives relatively to one another to gouge the sole.

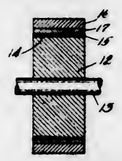
4. A machine for preparing insoles, having, in combination, a movable support for positioning an insole, a pair of rotary knives for gouging the insole adjacent the breast line on both sides of the shank to remove a portion of the insole corresponding in width to the feather, and means to move the support to present the insole to the knives.

5. A machine for preparing soles, having, in combination, a movable support for positioning a sole, adjustable rotary knives for gouging the sole, means for adjusting the knives to vary the position of the gouges in treating different sizes of soles, and means for moving the knives and support relatively to gouge the sole adjacent the breast line.

1,384,805. PROCESS FOR EMULSIFYING OIL OR ASPHALT. DANIEL J. MCSWINEY, Chelsea, Mass., assignor to Francis R. Mullin, Winchester, Mass. Filed Mar. 5, 1920. Serial No. 363,458. 16 Claims. (Cl. 134—1.)

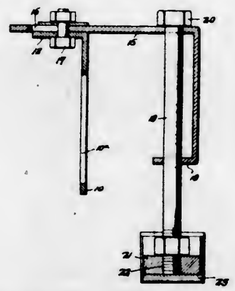
1. The process of emulsification consisting in passing emulsifying material through a container and gradually adding to it the material to be emulsified, said addition being such that at no place during said passage shall the volume of material to be emulsified amount to more than four times the volume of the emulsifying material.

1,384,806. ROLL. EDWIN REED, Andover, Mass. Filed Mar. 31, 1921. Serial No. 457,292. 3 Claims. (Cl. 19—35.)



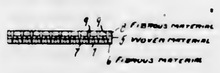
3. An annular facing for a corrugated roll body or center, comprising an outer ring of relatively soft rubber constituting a resiliently yielding tread, an inner ring of hard rubber vulcanized to the outer ring, and an annular layer of soft rubber vulcanized to the inner surface of the inner ring, and adapted to conform to corrugations on said body.

1,384,807. SHUTTLE-GUARD. PHILIP O. ROBERTSON, Allentown, Pa. Filed Mar. 26, 1921. Serial No. 455,740. 7 Claims. (Cl. 139—28.)



7. A shuttle guard comprising a casting and a supporting element laterally adjustable with respect to the reed frame of a loom and adapted to be secured to a sword arm of said loom, and a guide carried by said supporting element for preventing a shuttle from being deflected out of its true horizontal flight.

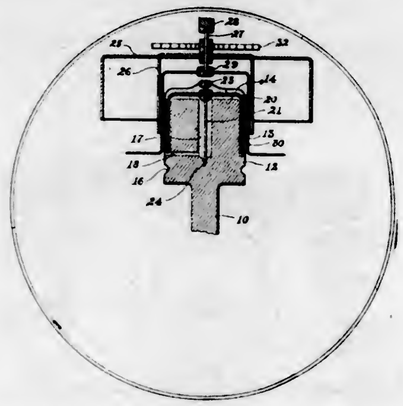
1,384,808. EMBOSSED FABRIC. ROSE E. SHINER, Franklin, Mass. Filed Apr. 1, 1920. Serial No. 370,444. 1 Claim. (Cl. 91—67.9.)



A fabric for rugs, carpets and the like, consisting of a layer of woven material, and a layer of fibrous material on each of the opposite faces of said woven material, the fibers of one of said layers of fibrous material passing into said woven material transversely thereof, the fibers of the other layer of fibrous material passing through said layer of woven material and into the other of said layers of fibrous material, said fabric being impregnated with coagulated adhesive material, the outer surfaces of said layers of fibrous material being embossed.

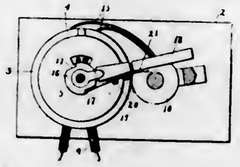
1,384,809. SPEEDOMETER. CHARLES G. SMITH, Cambridge, Mass., assignor to Charles F. MacGill, Cambridge, Mass. Filed Aug. 22, 1919. Serial No. 319,289. 6 Claims. (Cl. 264—13.)

1. A speedometer comprising a drive shaft, a rotary fluid containing member connected thereto, an inner member of magnetic material journaled coaxially within the fluid containing member, an indicating cup journaled for rotary movement coaxially with the inner member, and a magnet



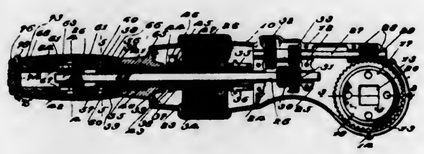
associated with the indicating member to clutch the indicating member to the inner member.

1,384,810. ELECTRIC SWITCH. CLARENCE C. STIBLING, Hartford, Conn., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 14, 1920. Serial No. 373,791. 6 Claims. (Cl. 200—87.)



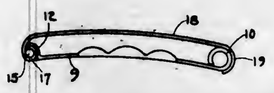
1. A snap switch provided with a turnable spindle having switching mechanism associated therewith and also having means by which the spindle may be partially operated to cause the switching mechanism to move from "on" toward "off" position, and means for automatically completing the "off" relation when the current reaches a predetermined amount.

1,384,811. MOTOR-DRIVEN ASSEMBLING-TOOL. CLARENCE STRAND, Gary, Minn. Filed May 9, 1919. Serial No. 296,042. 7 Claims. (Cl. 81—57.)



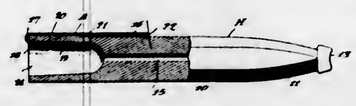
1. A motor driven assembling tool comprising a housing, a motor in the housing, an operating head rotatable in one end of the housing, gear connections between the motor and the operating head, a handle for the housing at the opposite end thereof, means operated by the handle for shifting the gear mechanism, and means operated by the handle to clutch the motor to the gear operated connections or to disengage the same.

1,384,812. CLASP. FRED M. SWARTZ, Providence, R. I. Filed July 31, 1920. Serial No. 400,427. 1 Claim. (Cl. 24—259.)



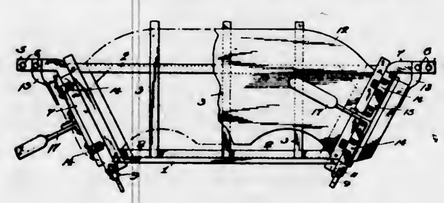
In a clasp, a jaw, a pivot member supported on one end of the jaw, a second jaw, sleeves on the second jaw embracing the pivot, and curved fingers on the first jaw engaging said sleeves the outer ones of which are upwardly and outwardly curved and the central one of which has its extremity formed into a loop and embracing the pivot member.

1,384,813. ATTACHMENT FOR CIGARETTE-HOLDERS. WILLIAM L. WALLACE, Davidson, N. C. Filed July 17, 1919. Serial No. 311,416. 2 Claims. (Cl. 131—10.)



1. In combination, a cigarette holder, having a shoulder formed thereon, an attachment comprising a band embracing the holder, a clip formed integrally with and arranged at right angles to the band and adapted to embrace the inner and outer walls of the socket of the holder, a lip on the inner end of the clip and disposed within the socket, a lug on the clip in advance of the lip and disposed within the socket, and a shoulder on the band and adapted to engage the shoulder on the holder.

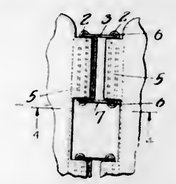
1,384,814. SHEET-METAL-BENDING MACHINE. CLAYTON B. WEAVER, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 13, 1918. Serial No. 216,945. 5 Claims. (Cl. 153—17.)



1. In a sheet metal bending machine, the combination with a frame, upon which the metal sheet is adapted to be received, with the end thereof extending beyond the end of the frame, and a bar fixed on and extending above and transversely across the frame adjacent the end thereof, and beneath and beyond which the end of the metal sheet extends, of a presser bar positioned above and parallel to and pivotally mounted on said first mentioned bar, and means for rocking said presser bar.

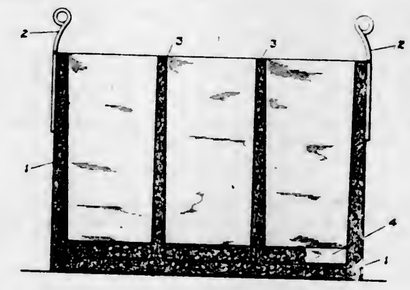
1,384,815. SHOE-FASTENING. WILLIAM ZAPIS, Hopewell, N. J. Filed Aug. 3, 1920. Serial No. 400,981. 1 Claim. (Cl. 24—225.)

A shoe fastening comprising hook receiving members having a longitudinal portion with loop portions at each end thereof, shoe uppers having along their adjacent edges spaced tongue portions doubled back and secured to the uppers forming loops to receive the longitudinal portions of said hook receiving members, the loop portions of said members projecting into the spaces between said tongue portions, and connecting members arranged to extend



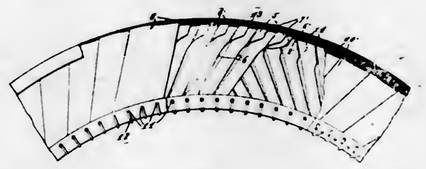
from the hook receiving members on one edge of the shoe to those on the other, said connecting members having hooks on at least one end.

1,384,816. STORAGE-BATTERY CONTAINER. JOHN M. AHLGREN, Indianapolis, Ind., assignor to Ahlbell Battery Container Corporation, Chicago, Ill., a Corporation of Illinois. Filed Mar. 2, 1918. Serial No. 220,103. 3 Claims. (Cl. 206—2.)



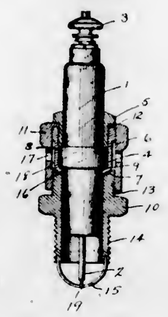
2. A battery container comprising a body composed of molded, pulpy, fibrous material the various walls and partitions of which are formed integral with said body, and an inner integral continuous lining of pliable acid and heat resistant material formed into an envelop to receive said container and having parts shaped to fit over the various walls and partitions of said container, said container being forced into said lining envelop while in a plastic state whereby said fibrous substance and lining will commingle and adhere to each other.

1,384,817. TIRE-ARMOR. JULIAN M. BAKER, Tarboro, N. C. Filed Oct. 10, 1919. Serial No. 329,720. 3 Claims. (Cl. 152—18.)



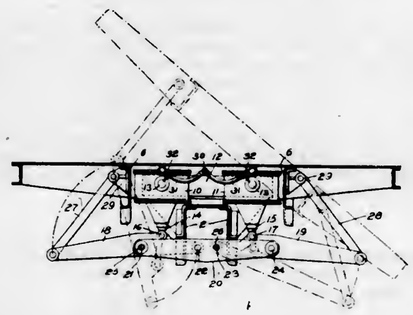
2. A protecting casing comprising a plurality of spirally arranged metallic sections, the adjacent edges of the sections being disposed in spaced relation with each other throughout a portion of the lengths of the sections, means for securing the sections together, at the tread portions thereof, and means for connecting the sections at the ends thereof.

1,384,818. SPARK-PLUG. THOMAS T. BATHURST, Kansas City, Mo. Filed Dec. 13, 1919. Serial No. 344,717. 6 Claims. (Cl. 123—169.)



1. In a spark plug, the combination with a central insulating electrode holder, of a hollow socket member, a draw nut rotatably connected with said electrode holder and having threaded engagement with said socket member, coacting valve seats on said electrode holder and said socket member, respectively, a recess between said draw nut and said electrode holder, said recess being contiguous to said valve seats, and ports establishing communication between said recess and atmosphere.

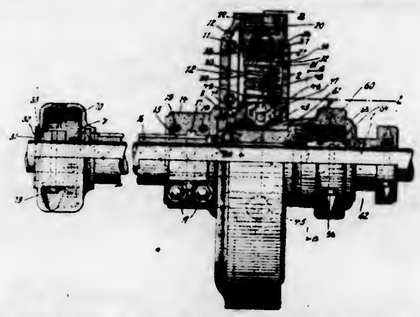
1,384,819. DUMP-CAR. HOWARD L. BEACH, Mount Lebanon, and WILLARD J. FENDNER, Pittsburgh, Pa. Filed July 14, 1920. Serial No. 396,194. 22 Claims. (Cl. 105—265.)



1. In a dump car, a tilting body, fluid actuated cylinders operatively connected to opposite sides of said body, each of said cylinders having a single fluid inlet and each adapted to coöperate with the other cylinder or cylinders to tilt said body to either side of the car.

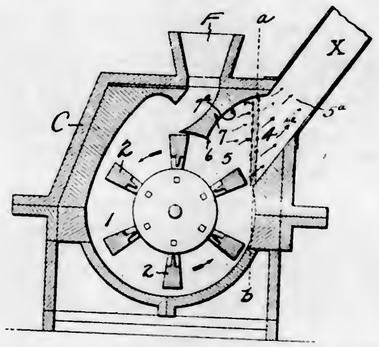
1,384,820. CLUTCH. EDWARD GEORGE BENDL, Bogota, N. J. Filed Mar. 21, 1919. Serial No. 284,053. 6 Claims. (Cl. 192—76.)

1. A clutch comprising an outer casing, an inner casing, said casings inclosing the main clutch compartment between them and having oppositely projecting parallel adjacent flanges, said inner casing having an integral hub and a second flange spaced a short distance apart from the hub and surrounding the latter, a series of contact shoes carried by said inner casing, devices located in the said compartment mounted to move radially in said flanges of



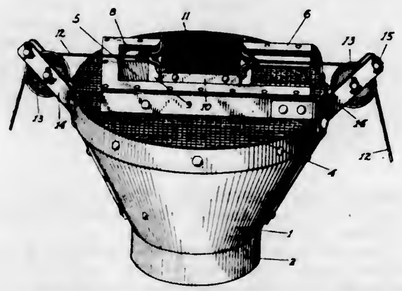
the inner casing to operate said shoes, and an element slidable on the said hub and adapted to engage and move said devices outwardly.

1,384,821. DISINTEGRATOR. JOSEPH K. BLUM, Greenburgh, N. Y. Filed May 10, 1920. Serial No. 380,352. 6 Claims. (Cl. 83—11.)



1. A pulverizer consisting of a casing with a disintegrating rotor therein and having an inlet opening and a discharge opening with an outlet conduit, said casing having within its upper part a partition separating the inlet from the outlet and forming a separating chamber of enlarged extent or width as compared to the outlet conduit.

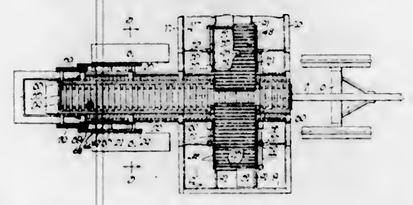
1,384,822. SPARK-ARRESTER FOR STEAM-ENGINES. CHARLES BRUCE, Tuolumne, Calif. Filed June 29, 1920. Serial No. 392,755. 2 Claims. (Cl. 183—62.)



1. A spark arrester comprising a screened base adapted to sit on a smoke stack, a certain area of such screen being

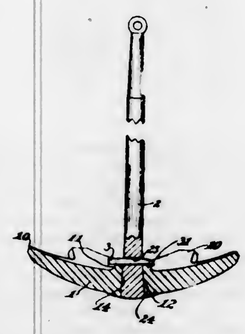
cut away to leave an unobstructed opening, a guide structure fixed to the base and surrounding the opening and extending therebeyond, and an auxiliary screened frame slidable in the guide structure, and adapted to be positioned over the opening to make a spark-tight connection with the guide structure and the screen of the base, and to be moved to uncover the same at will.

1,384,823. POTATO-PICKER. HILMER CARLSON, Chicago, Ill., assignor to Hilmer F. Carlson and Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 15, 1920. Serial No. 351,674. 24 Claims. (Cl. 56—327.)



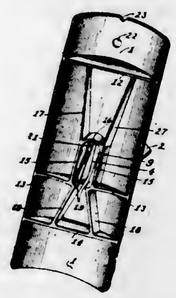
24. In a potato picker, a chassis frame, a longitudinally extending shaft on said frame, a gear at one end of said shaft having operable driving connection with the rear wheels of the chassis, cranks disposed on said shaft, shoes having operative connection with the cranks, vertical shafts, pans at the lower end of the vertical shafts, cranks at the upper end of the vertical shafts, a driving connection between the horizontal shaft and the crank on the vertical shafts for oscillating the same, said pans adapted to move under said shoes when the shoes are in upper position, a hopper receiving said pans when the shoes are in lower position, means removing the material collected in the pans to said hopper, an elevator adjacent said hopper adapted to convey said material to sizing means on said chassis frame, said sizing means comprising a plurality of carrier screens adapted for sorting the material into separate bins.

1,384,824. MUSHROOM ANCHOR. WILLIAM R. CASE, Seattle, Wash. Filed Dec. 8, 1919. Serial No. 343,229. 3 Claims. (Cl. 114—206.)



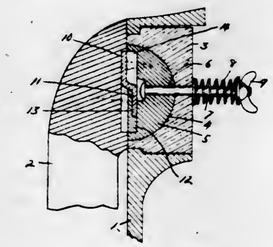
1. As an article of manufacture, an anchor comprising a mushroom head having a central boss upon its concave side, and having an axial hole extending centrally therethrough, and tapered inward from the convex side of the head, a shank having a tapered end securable in said hole, and having a transverse slot therein, a notch in the upper side of said boss at opposite sides of the central hole registrable with said transverse slot, and a tapered key securable in said slot and notches.

1,384,825. ANCHOR. ALBERT B. CHANCE, Centralia, Mo. Filed July 26, 1917. Serial No. 182,947. 10 Claims. (Cl. 189—90.)



1. In an anchor of the character set forth, a concavo-convex anchor plate having longitudinal ribs on the convex side thereof connected at one end by an arched rib portion and diverging at the other end toward the corners of one end of the plate, the plate being provided with an aperture therethrough between the said longitudinal ribs and between portions of the said diverging ribs, the said aperture being bordered on the concave side of the plate with longitudinal ribs connected at one end by an arched rib portion and diverging at the other end, the inner walls of the said longitudinal ribs and the said arched rib portion on the concave side of the plate being partially cut away to provide inclined surfaces along the longitudinal ribs terminating in an arched surface within the said arched rib portion on the concave side of the plate, which arched surface lies in a plane substantially parallel with a plane including the longitudinal edges of the plate, the inner wall of the arched rib portion on the convex side of the plate inclining away from the said aperture in the plate, and an anchor rod having a rounded head on one end thereof coöperating with the said ribs and the said arched portions in the installation of the anchor, the said rod extending through the said aperture, the said head forming a ball-and-socket connection with the said arched surface within the said arched rib portion on the concave side of the plate, for purposes substantially as set forth.

1,384,826. ARM-FITTING. THOMAS P. CHEEVERS, Detroit, Mich. Filed Aug. 2, 1919. Serial No. 314,948. 5 Claims. (Cl. 211—13.)



3. In an arm fitting for display figures, the combination with a plug mounted in a figure and having a half ball socket in its outer face, of a half ball rotatably engaging

in said socket, a spring for yieldably maintaining the spherical surfaces of said half ball and socket in contact with each other, an arm, and a hook connection between said arm and half ball for detachably securing said arm to said half ball.

1,384,827. DAUBER, POLISHER, &c. ARTHUR J. COCHRAN, Columbus, Ind. Filed June 10, 1920. Serial No. 387,921. 1 Claim. (Cl. 15—16.)



As an article of manufacture, a main body provided with a downwardly extended support, flanking pockets and a retaining shoulder adjacent each pocket, and a flexible tongue secured to the support and extending into proximity with the shoulders whereby a flexible strip may be applied to the tongue and retained thereon between the tongue and shoulders, substantially as described.

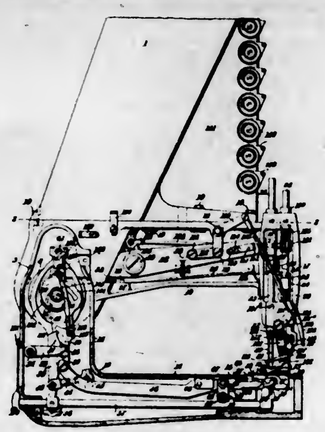
1,384,828. HEELLESS SOCK. LAFAYETTE H. CONLEY, Sault Ste. Marie, Mich. Filed Jan. 12, 1920. Serial No. 350,970. 2 Claims. (Cl. 66—4.)



1. A knit sock or the like, comprising a knit leg portion, a knit and purled portion corresponding to that part designed to fit the heel and instep of the wearer and with the purling stitches sensibly advanced in a diagonal direction with respect to the stitches of the leg portion, and a plain foot and toe portion.

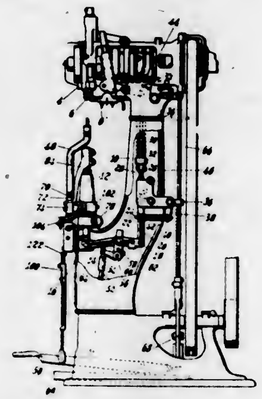
1,384,829. FEED-OFF-THE-ARM SEWING-MACHINE. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Jan. 27, 1917. Serial No. 144,847. 19 Claims. (Cl. 112—209.)

1. In a sewing machine, in combination, a reciprocating needle, a four-motion looper, a main-shaft, and operative connections between said main-shaft and said needle and looper including a pitman-lever and a connection therefrom for transmitting operative movement to said needle and means connected with the pitman-lever and



separate from said connection for transmitting all four movements to the looper.

1,384,830. WORK-SUPPORT. GEORGE GODDU, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 1, 1918. Serial No. 247,738. 50 Claims. (Cl. 1—41.)

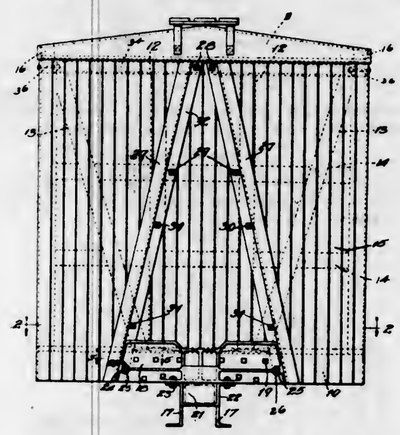


1. In a machine of the class described, a work support movable between work-receiving and work-clamping positions, means for measuring the work comprising a spring normally operative to lift the work support to work clamping position, and manually operable means for applying final work-clamping pressure constructed and arranged to control said measuring means.

3. In a machine of the class described, a work support movable between work-receiving and work-clamping positions, means comprising a spring for measuring the work, means for locking the support against movement after measurement has been effected, manually operable means for applying final work-clamping pressure, and means separate from said manually operable means for controlling the locking means.

17. In a machine of the class described, a work support movable between work-receiving and work-clamping positions, said support comprising a jack spindle and a supporting member therefor, means for controlling the movements of the spindle relatively to its supporting member, means for starting the machine, and a cam controlled by said starting means for controlling said first mentioned means.

1,384,831. END REINFORCEMENT FOR BOX-CARS. GEORGE S. GOODWIN, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Continuation in part of application Serial No. 86,402, filed Mar. 24, 1916. This application filed Mar. 27, 1918. Serial No. 224,951. 5 Claims. (Cl. 105—411.)



1. A reinforcement for the end wall of a railway box car comprising, in combination with the end plate, side plates, striking block and truss rods of the car: a pair of end braces on the outside of the end wall of the car and an end plate bracing structure within the car secured to the end plate and side plates thereof, the truss rods of the car extending through and being anchored to the lower extremities of said end braces and the latter anchored to the striking block, the upper ends of said end braces being connected with said end plate bracing structure through the end plate of the car.

1,384,832. COLLAR-HOLDER. HENRY E. HALSETH, Virginia, Minn. Filed June 24, 1920. Serial No. 391,352. 3 Claims. (Cl. 24—81.)



1. A device of the class described comprising a front bar formed of non-resilient material, a sleeve situated intermediate its ends, a resilient wire passing through and supported by said sleeve and having its ends normally in engagement with the ends of said front bar for the purpose specified.

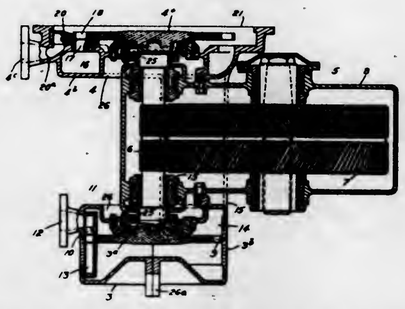
1,384,833. FOLDING-SEAT BED. PHILIP HERBOLD, Galion, Ohio. Filed Mar. 2, 1921. Serial No. 448,972. 2 Claims. (Cl. 5—49.)

1. A sofa bed comprising a box, a top seat frame hinged at its rear edge to the back of the box, the front wall of the box being of less height than its rear wall and the front bar of the seat frame being dropped to rest on said front wall when closed, and a folding bed-frame hinged



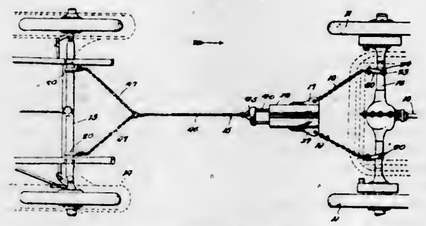
to the front of the box and adapted to swing into or out of the box when the seat frame is opened, the front and rear bars of the bed-frame being dropped, to support a soft edge spring thereon.

1,384,834. GEARED-POWER-DEVELOPING UNIT. HERBERT T. HERR, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Sept. 8, 1917. Serial No. 190,389. 5 Claims. (Cl. 60—70.)



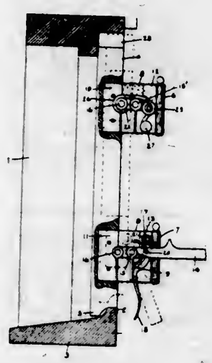
1. In combination in a geared turbine unit, a driving gear, a driven gear meshing therewith, an inclosing casing for said gears in which said gears are mounted, a turbine housing mounted on each side of said casing, and a turbine rotor inclosed in each housing, each rotor being mounted on the shaft of the driving gear.

1,384,835. TOWING DEVICE. EDWIN G. HINES, Drums, and CHARLES S. MYERS, Hazleton, Pa.; said Myers assignor to said Hines. Filed June 29, 1920. Serial No. 392,732. 2 Claims. (Cl. 213—67.)



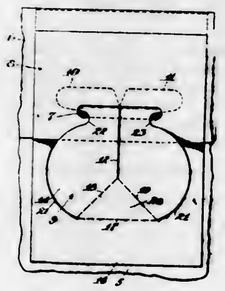
1. A tow line for vehicles comprising a barrel having laterally projecting connecting members at one end, a draw rod extended through said barrel, flexible elements connected to said draw rod, flexible elements connected to said laterally projecting connecting members, a coil spring surrounding said draw rod within said barrel, an adjusting device carried by said draw rod for tensioning said spring, and attaching means whereby to connect said flexible elements with the towing and the towed vehicle respectively.

1,384,836. HINGE FOR WINDOWS. OSCAR B. JOHNSON, Indianapolis, Ind. Filed Aug. 4, 1919. Serial No. 315,335. 9 Claims. (Cl. 16—106.)



2. In a hinge construction a leg adapted to be fastened to a window frame and carrying a hinge pivot, a member adapted to be fastened to a sash, and lever means interposed between said pivot and member adapted to raise said member without separating the leaves of the hinge.

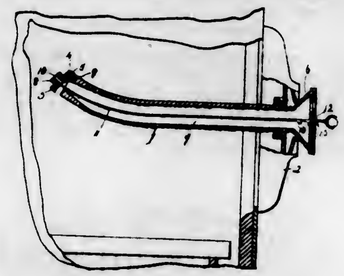
1,384,837. ENVELOP. LEMUEL R. JONES, Los Angeles, Calif. Filed Mar. 8, 1920. Serial No. 364,167. 3 Claims. (Cl. 229—84.)



1. In a fastener for envelops and the like, a blank, a tongue struck from said blank, a straight score extending along the juncture of the tongue and blank, diagonal scores extending from the ends of said straight score and intersecting on the longitudinal center of said tongue, said tongue formed with a slit extending from the intersection of the diagonal scores and opening at the end of the tongue and dividing the outer portion of the latter into two members adapted to overlap each other, a member having a slot adapted to receive the outer portions of said tongue members, and means on the ends of said tongue members adapted to be engaged by the ends of said slot to connect said member to said tongue.

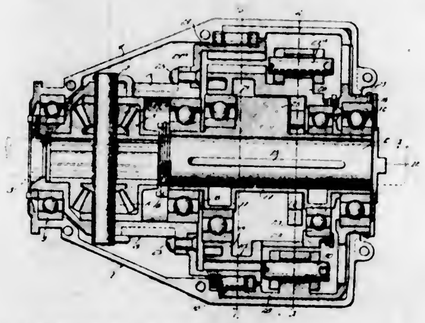
1,384,838. AIR-FEEDING DEVICE. JOHN Y. KING, Lansdowne, Pa. Filed Dec. 5, 1919. Serial No. 342,754. 3 Claims. (Cl. 110—175.)

1. In an air feeding device, a body having a passageway therethrough, a valve hinged to the inner end of said body adapted to partially close the passageway, a hub formed upon said valve, said valve and hub having a



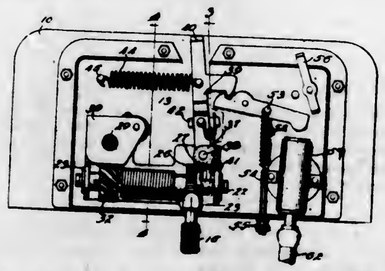
hole therethrough, said hub having a crosswise slot intersecting said hole, and means for operating the valve.

1,384,839. MECHANICAL MOVEMENT. JOHN KROHN, Newark, N. J. Filed Apr. 26, 1920. Serial No. 376,552. 7 Claims. (Cl. 74—35.)



1. A mechanical movement comprising a driving member, a driven member, rotative members carried by said driving and driven members, and having driving connection with each other, one of said rotative members having bodily eccentric movement about the axis of rotation of the member carrying the same, a link pivotally connected to said eccentric member, another link pivoted at a fixed point located adjacent the path of said eccentrically rotative member, and a member pivotally connecting the free ends of said links.

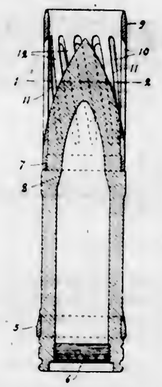
1,384,840. IGNITER. GEORGE ALBERT LEY, Chicago, Ill. Filed Apr. 17, 1920. Serial No. 374,705. 16 Claims. (Cl. 67—28.)



1. In an igniter of the character described, a frame, a pyrophoric element carried by said frame, a main shaft

journaled on said frame, an abrading wheel fixed to said main shaft, a sleeve loosely mounted on said main shaft, a winding mechanism including a winding shaft, pawl and ratchet mechanism constraining said winding shaft against unwinding motion, a driving pinion carried by said winding shaft and a driven pinion fixed to said sleeve, a coil spring mounted on said sleeve and having one end secured to said abrading wheel and the other end secured to said diven pinion, a setting lever, a locking detent controlled by said setting lever and engageable with said abrading wheel, a common pivot for said setting lever and said locking detent, a spring for engaging said setting lever to non-locking position, a trip for releasably maintaining said setting lever in locking position, and a pneumatic release for said trip.

1,384,841. PROJECTILE. ROBERT LUNDELL, New York, N. Y. Filed June 17, 1918. Serial No. 240,423. 7 Claims. (Cl. 102—26.)



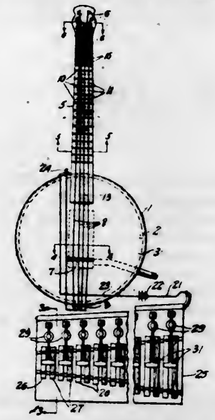
1. A projectile having a reduced head and a diving-device to prevent ricocheting consisting of a tubular member surrounding and extending forward of said reduced head and being connected with the body portion of the projectile by a plurality of spiral members between which open ports are formed for the escape of air or water which has entered the mouth of said tubular member during the flight of the projectile, said open ports having a combined cross-sectional area substantially equal to or greater than the area inclosed by the mouth of said tubular member.

1,384,842. PROCESS OF MANUFACTURING ACETALDEHYDE. HOWARD W. MATHESON, Shawinigan Falls, Quebec, Canada. Filed Nov. 26, 1917. Serial No. 204,008. 3 Claims. (Cl. 23—24.)

1. A process for the manufacture of acetaldehyde, which comprises passing acetylene through an acid solution of not greater than 6% concentration containing an oxid of mercury, and maintaining a temperature below 66° centigrade and a pressure below two pounds per square inch super-atmospheric.

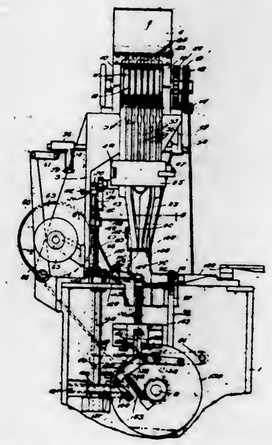
1,384,843. MUSICAL INSTRUMENT. WILLIAM J. MAXWELL, Jr., New York, N. Y. Filed Aug. 12, 1920. Serial No. 403,062. 6 Claims. (Cl. 84—171.)

1. In a musical instrument combination for the purpose set forth, a banjo having electrically conductive strings and electric contact points between the frets below each of the strings, a stationary panel board placed within the body of the banjo, said contact points being individually connected by means of insulated conductors with said stationary panel board, pivoting levers conductively connected with said strings at the head of the banjo and held in inoperative position of said strings, said levers adapted to be pressed down at their short end against contact points, a finger switch adapted to facilitate either of said strings being electrically charged, or to interrupt the electrical current charging them, a detachable panel board adapted to be placed upon and fitting said stationary panel board and having a plurality of electrical conductors adapted to energize electro-magnets of a secondary instrument when the strings of said banjo are caused to form contact with said contact points, said



secondary instrument comprising a plurality of tone producing pairs of metallic and wooden bars, each corresponding pair adapted to be sounded simultaneously, and chime-bars corresponding in tone with each respective pair of bars, buzzer-like electro-magnetic hammers adapted to repeatedly strike each corresponding metal and wood bar-pair when energized, another electro-magnetic hammer adapted to singly strike a corresponding chime bar simultaneously with said bar-pair, and means for supplying electric energy to said conductors.

1,384,844. CARTON-FILLING MACHINE. MICHAEL J. MILMOE, Chicago, Ill., assignor to F. B. Redington Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 15, 1917. Serial No. 154,966. 45 Claims. (Cl. 226—14.)



21. In mechanism for filling receptacles, means for selecting the quantity of material for properly filling a

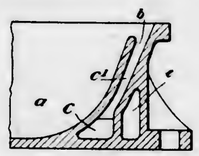
receptacle, means for testing the quantity of material selected to prevent short measure in said receptacle, and means for inserting the material selected and tested into a receptacle.

1,384,845. PROCESS OF JOINING FABRIC SECTIONS. GEORGE E. MOLYNEUX, Bayonne, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Mar. 24, 1913, Serial No. 756,317. Divided and this application filed May 18, 1917. Serial No. 169,422. 2 Claims. (Cl. 112—262.)



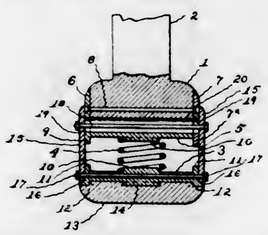
1. The process of joining fabric sections consisting in uniting the superposed edges of the fabric sections by stitching, opening the sections of fabric until the major portions lie in substantially the same plane, exerting a strain on the respective fabric sections in opposite directions away from and transversely of the line of stitching, and uniting said fabric sections while under said strain by connected parallel lines of stitches disposed respectively on opposite sides of the first line of stitching.

1,384,846. INTERNAL-COMBUSTION ENGINE. THOMAS MORTON, Ruthergien, Scotland. Filed Feb. 20, 1920. Serial No. 360,023. 5 Claims. (Cl. 184—6.)



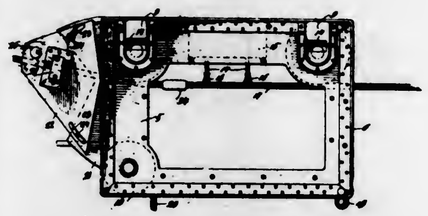
5. A combined crank chamber and lubricating oil receptacle for internal combustion engines having, in combination, an oil duct extending from one end of the crank chamber to the other end and through which the oil forced up at one end of the chamber is caused to flow, said duct communicating for this purpose with the interior of the crank chamber at each end, means whereby the oil, while passing along the oil duct, can be cooled by a contra-flow of cooling liquid, and cross ribs dividing the interior of the chamber into a series of oil collecting spaces.

1,384,847. SPRING-WHEEL. HARVEY MYERS, Poughkeepsie, N. Y. Filed Dec. 30, 1919. Serial No. 348,345. 1 Claim. (Cl. 152—38.)



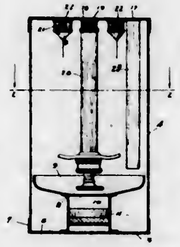
A spring wheel including a felly provided with clearance openings in the periphery thereof, a band fitted tightly upon the felly and extending over the mouths of the clearance openings, bearing plates applied to the sides of the felly and having openings therein registering with the clearance openings of the felly, a floating ring surrounding the felly in spaced relation thereto, springs interposed between the floating ring and the felly, guide plates bridging the space between the floating ring and the felly, said guide plates being secured to the floating ring and slidably engaging the bearing plates of the felly, and tie bolts connecting the guide plates and extending through the clearance openings of the felly, movement of the bolts from the openings being prevented by the band.

1,384,848. LOGGING-CARRIAGE. JULIUS A. PIERSON, Winlock, Wash. Filed Dec. 31, 1920. Serial No. 434,281. 2 Claims. (Cl. 104—251.)



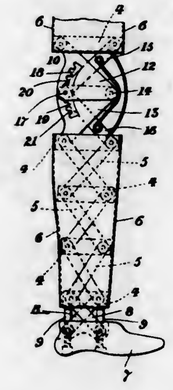
1. In combination, a logging carriage, a housing pivotally associated therewith, a sheave journaled within the housing, and an automatic holding device situated within the housing for the purpose specified.

1,384,849. STERILIZING OUTFIT. WILLIAM T. POWER, New York, N. Y. Filed Oct. 30, 1917. Serial No. 199,269. 6 Claims. (Cl. 167—3.)



1. A pocket sterilizing outfit including an open end tubular container, a plurality of receptacles fixed to the inner side of said container, a pair of removable closure caps for the ends of said container, a complete sterilizing outfit including a water bowl and a heater for the same carried by one of the caps and adapted to be positioned within the container when the cap is in place and bodily removable from the container with the cap, the other cap provided with means for positioning instruments in pre-set spaced apart positions within the container when this other cap is in its closing position, said means arranged so as to space the intruments carried thereby in off-set position relative to the articles carried by the holder.

1,384,850. ARTIFICIAL LIMB. ALEXANDER PRINGLE and THOMAS SINCLAIR KIRK, Belfast, Ireland. Original application filed Aug. 6, 1920, Serial No. 401,606. Divided and this application filed Nov. 16, 1920. Serial No. 424,365. 8 Claims. (Cl. 3—2.)



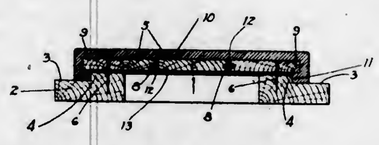
1. In an artificial leg a plurality of transverse frames and oppositely disposed diagonal links rigidly connecting same.

1,384,851. COVER FOR COOKING UTENSILS. GEORGE J. RICHARDSON, Ceres, Calif. Filed Nov. 6, 1920. Serial No. 422,294. 3 Claims. (Cl. 53—8.)



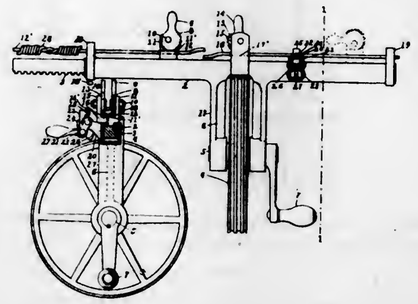
1. A cover for a cooking utensil having an outwardly projecting rim around its upper edge, comprising a cover member, a pair of handles pivotally mounted on the cover in parallel alinement and arranged to be moved to and from each other, extensions on the handle members beyond the pivotal connections thereof, and hooks on the outer ends of the extensions arranged to project under and engage the utensil-rim when the handles are spread apart.

1,384,852. REFRIGERATOR-DOOR. GEORGE H. RICE, Arlington, Vt., assignor to Arlington Refrigerator Company, Inc., Arlington, Vt., a Corporation of New York. Filed Aug. 2, 1920. Serial No. 400,704. 8 Claims. (Cl. 20—35.)



6. A door comprising a frame having a panel opening therein and a panel secured to said frame over said opening, a groove being formed around said panel opening and a sheet of insulating material applied in plastic form to said panel and locked thereto and to said frame by flowing into and becoming set in said groove.

1,384,853. WIRE STRETCHER AND SPLICER COMBINED. JAMES M. ROBERTS, Andrew county, near St. Joseph, Mo. Filed Mar. 16, 1920. Serial No. 366,208. 3 Claims. (Cl. 254—67.)

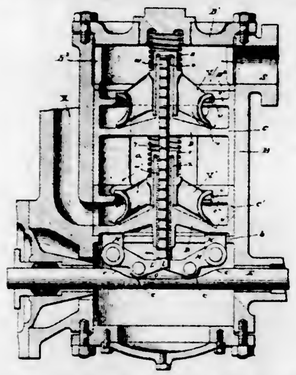


1. A rack guide having a slot formed through its top throughout the entire length thereof and an opening formed through the central portion of its bottom; a clamp standard the lower end portion of which is formed integrally with the central portion of one side of said rack guide; a clamp seat formed on one side of said standard; a clamp member oscillatably mounted on the same side of said standard for clamping a wire between said seat and said member by oscillation of the latter; a rack mounted for slidable movement in said rack guide; a movable clamp standard the lower end of which is secured on the upper surface of said rack and extends thereabove through said rack guide slot, said movable standard being provided with a clamp seat and clamp member similar to the first mentioned clamp standard; a pair of standards the upper ends of which are formed integrally with said rack guide; a shaft the ends of which are rotatably mounted in the lower ends of said standards; a worm wheel secured on the central portion of said shaft the worm threads of which project from said wheel through the bottom opening through the bottom of said rack guide into engagement with the teeth of said rack; a crank secured on one of the extremities of said shaft; and a suspending hook connected with each end of said rack guide whereby the hereinbefore claimed parts are suspended from a stretched wire.

1,384,854. VALVE-GEAR FOR STEAM-ENGINES. SIEGFRIED ROSENZWEIG, New York, N. Y. Filed Nov. 30, 1920. Serial No. 427,290. 3 Claims. (Cl. 121—185.)

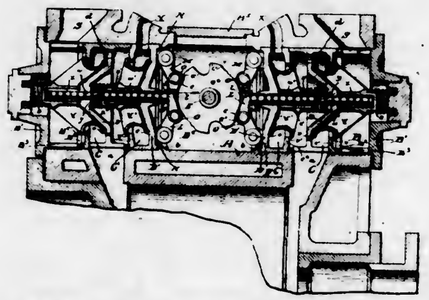
1. In a valve gear for steam engines, the combination of the following elements, namely—a valve chamber; spring-closed steam and exhaust valves mounted and arranged therein, one upon the axial prolongation of the other; a valve operating cam or tappet shaft extending crosswise through the valve chamber; a diaphragm separating the valve containing portion of the valve chamber from the cam shaft; valve spindles, one for each valve, the one spindle passing axially through and telescoping with the other, and the telescoped ends of the same projecting through and beyond the diaphragm toward the cam shaft; and lift members, one for each spindle, mounted and movable in bearings between the diaphragm and cam shaft, and on opposite sides of the intervening telescoped spindle ends, and formed and arranged to engage and be operated by the cam shaft and, at their free ends, to

engage the one the outer, and the other the inner one of the two telescoped ends of the valve spindles which project



between them—the combination being and acting substantially as hereinbefore set forth.

1,384,855. VALVE-GEAR FOR STEAM-ENGINES. SIEGFRIED ROSENZWEIG, New York, N. Y. Filed Dec. 8, 1920. Serial No. 429,114. 3 Claims. (Cl. 121—185.)



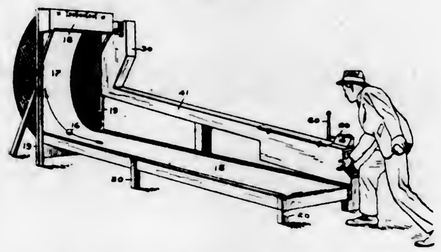
1. In a valve gear for steam engines the combination of the following elements, namely—an engine cylinder; two valve chambers mounted, at an interval from one another, on and lengthwise of said cylinder, one on the axial prolongation of the other; two sets of steam and exhaust valves, one for each valve chamber, mounted and arranged in their respective chambers—one set upon the axial prolongation of the other; valve spindles, one for each valve, the spindles of the two valves of each set passing the one axially through, and telescoping with the other, the telescoped ends of the two sets of spindles projecting in axial alinement with one another through the interior opposite closed ends of their respective chambers into the intervening space which separates said chambers; lift members, one for each spindle, mounted and movable in bearings on the interior opposite ends of their respective valve chambers on opposite sides of the telescoped ends of the sets of valve spindles with which they are respectively associated with their free ends engaging the one the outer and the other the inner one of said telescoped ends; and a cam or tappet valve-operating shaft extending through the interval which separates the two valve chambers crosswise of and between the opposed telescoped ends of the two sets of valve spindles, and lift members with which they are associated and provided with two sets of recesses and cam lifts located on diametrically opposite faces of said shaft to engage and actuate the lift members of two sets—the combination being and acting substantially as set forth.

1,384,856. GUTTER OR EAVES-TROUGH HANGER OR SUPPORT. NEIL SALMONSEN, Philadelphia, Pa., assignor to Berger Brothers Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Aug. 18, 1920. Serial No. 404,344. 4 Claims. (Cl. 108—29.)



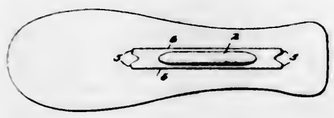
4. In a gutter hanger, a plate having integral spaced apart ears with perforations, a stem received between said ears, and means passed through said perforations and the stem, said plate having a curved extension for attachment to a support of curved form.

1,384,857. GAME APPARATUS. BRIANT SANDO, Indianapolis, Ind., assignor to Briant Specialty Company, Indianapolis, Ind., a Corporation. Filed Aug. 26, 1918. Serial No. 251,451. 2 Claims. (Cl. 46—61.)



1. A game apparatus of the character described comprising a runway upon which balls are rolled, a ball receiver and separator communicating with the discharge end of said runway, a floor for dividing said separator into an upper and lower compartment and having a plurality of ball inlet openings, a series of parallel walls for dividing said lower compartment into ball conveying passageways communicating with said ball inlet openings, and a hopper for receiving the balls discharged from the several passageways in the separator and discharging them through a single opening.

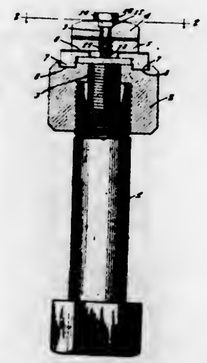
1,384,858. SHOE-SHANK. MORRIS M. SANDUSKY and JOSEPH SANDUSKY, New York, N. Y. Filed Feb. 9, 1921. Serial No. 443,628. 8 Claims. (Cl. 36—76.)



1. A shoe shank comprising a plate provided at its end with opposed teeth, each of the said teeth having its outer edge beveled and longer than its inner edge to cause them to bend toward each other on being driven into the leather.

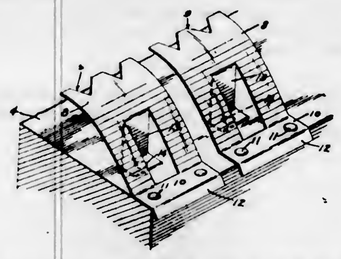
1,384,859. LOCK-NUT. LOUIS MARTAIN SARTAIN, Pelham, Tenn. Filed Oct. 25, 1920. Serial No. 419,284. 1 Claim. (Cl. 151—28.)

In a device of the class described, a bolt; a nut threaded in one direction on the bolt and having oppositely disposed seats; a screw threaded in an opposite direction into the end of the bolt and having an enlarged head engaging the nut; a latch bar movable in the head of the screw longitudinally thereof and having transverse terminal projections coöperating with the seats; spring means housed in the head of the screw for advancing the latch to cause the projections to coöperate with the seats; an



operating member carrying the spring means and connected to the latch and slidable in the head of the screw, the operating member being accessible from the end of the head of the screw to effect a retraction of the latch, the operating member being rotatable, and comprising a part engaging the head of the screw to hold the operating member and the latch retracted, after the operating member has been retracted and rotated.

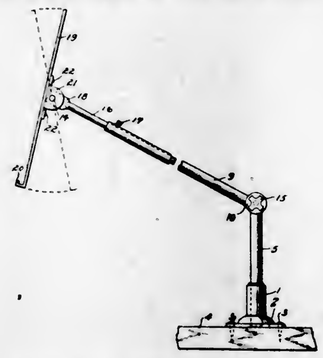
1,384,860. CATTLE-GUARD. MICHAEL SCHAFF, Rye-gate, Mont. Filed May 19, 1920. Serial No. 382,563. 2 Claims. (Cl. 256—18.)



1. A cattle guard consisting of rows of separately constructed plates carried by and secured to adjacent cross ties, each plate comprising an upwardly and forwardly extending portion having a terminal edge spaced from the cross tie, an intermediate member provided upon its base with a horizontal flange resting on the rear portion of the upper surface of the tie adapted to be secured thereto and a downwardly bent flange engaging the rear side of the tie.

1,384,861. STENOGRAPHER'S NOTE-HOLDER. LAWRENCE SCHINGEL, St. Louis, Mo. Filed Feb. 3, 1921. Serial No. 442,050. 2 Claims. (Cl. 120—28.)

1. An improved note-book holder, composed of a vertical tubular stand rising from a fixed base-plate, a vertical stand-arm mounted loosely to freely rotate in any direction in said vertical tubular stand, a horizontal arm pivoted at one end to the upper end of said vertical stand-arm and movable thereon in a vertical plane only, a note-book plate pivoted upon the outer end of said horizontal arm, a clamping-screw for fixing said horizontal arm upon said vertical tubular-stand after said arm has been adjusted thereon, and a clamping-screw for fixing said note-book plate in adjustment upon the outer end of said horizontal arm.



1,384,862. OPHTHALMIC MOUNTING. ELMER L. SCHUMACHER, Southbridge, and WILLIAM H. BOUTELLE, Sturbridge, Mass., assignors to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Feb. 16, 1921. Serial No. 445,322. 2 Claims. (Cl. 88—43.)

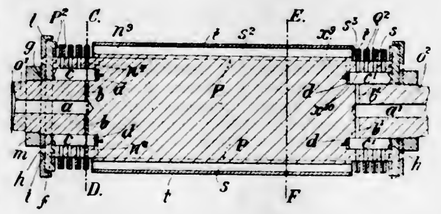


1. An ophthalmic mounting including a bridge bar having a seamless non-metallic tube centrally disposed thereon and having exposed terminal portions projecting beyond the ends of the non-metallic tube.

1,384,863. MERCURY OINTMENT. JOHN P. SHEPHERD, Chicago, Ill., assignor, by mesne assignments, to Shepherd Chemical Company, a Corporation of Illinois. Filed Jan. 24, 1920. Serial No. 353,817. 4 Claims. (Cl. 167—9.)

1. An ointment comprising mercury and a vehicle consisting chiefly of free cholesterin.

1,384,864. ELECTRICAL GENERATOR AND MOTOR. JOSEPH SHEPHERD, Leeds, England. Filed June 5, 1919. Serial No. 301,882. 8 Claims. (Cl. 171—252.)



1. A rotor of an electric generator or motor having longitudinal teeth with slots therebetween for the straight portions of the windings, cross teeth with slots therebetween for the end loops of the windings, and means for cooling by liquid circulation both the straight portions of the windings and the end loops.

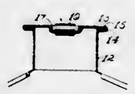
1,384,865. ELECTRIC GENERATOR AND MOTOR. JOSEPH SHEPHERD, Leeds, England. Filed June 13, 1919. Serial No. 304,010. 9 Claims. (Cl. 171—209.)



1. In a dynamo-electric machine, the combination of end supports on the stator frame having passages adapted for fluid circulation, projections on the supports forming between them recesses for the inner layers of the stator end windings, and clamps provided with passages for fluid circulation, said clamps having projections forming between them recesses for the outer layers of the stator end windings, said fluid cooled clamps serving to secure said end windings in place in the recesses.

2. In a dynamo-electric machine, the combination of end supports on the stator frame provided with passages adapted for fluid circulation, said supports having projections forming between them a series of spiral recesses for the inner layers of stator end windings, and clamps having passages adapted for fluid circulation, said clamps also having projections lying across the first mentioned projections and forming between them a second series of spiral recesses for the outer layers of the stator end windings.

1,384,866. DISINFECTING BROODER. SAMUEL SILVERS, Waterloo, Iowa. Filed May 6, 1920. Serial No. 379,402. 2 Claims. (Cl. 119—19.)



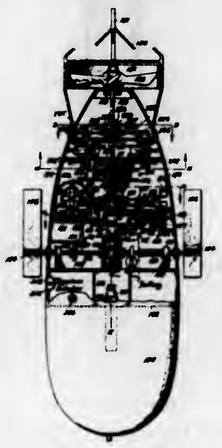
1. In combination, a structure of the character described having an open slideway in its upper portion, and a slide mounted slidably and removably in said slideway having an orificed depression for retaining and moistening by capillarity a porous disinfectant impregnated tape removably placed therein and extending within said structure.

1,384,867. AIR-CURRENT INDICATOR FOR AEROPLANES. LAWRENCE B. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 9, 1916. Serial No. 124,448. 3 Claims. (Cl. 177—351.)



2. The combination with an aircraft, of a plurality of devices carried thereby and adapted to be positioned by the direction of the wind in a plurality of planes, a common mounting for said devices, electrical signaling means controlled by said devices for producing a warning when the position of the craft relative to the direction of the wind to one or both planes attains a predetermined value, and an additional means controlled by such devices for producing danger signals when said relative position becomes critical.

1,384,868. DIRIGIBLE GRAVITY-BOMB. ELMER A. SPERRY and THOMAS H. PHILLIPS, Jr., of Brooklyn, N. Y.; said Phillips, Jr., assignor to said Sperry. Filed July 26, 1918. Serial No. 246,856. 49 Claims. (Cl. 244—1.)



1. In combination, a gravity bomb, means carried by said bomb for controlling the descent thereof and controllable means remote from said bomb for controlling the first mentioned means.

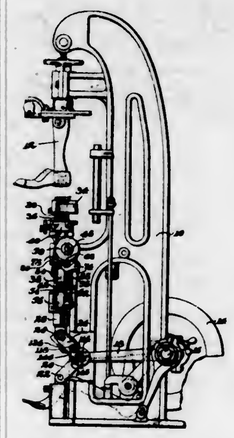
1,384,869. BRIDGE-TOOTH. LAKE H. SPRINKLE, Brooklyn, N. Y. Filed Nov. 26, 1920. Serial No. 426,514. 3 Claims. (Cl. 32—9.)



1. In a bridge tooth a porcelain facing adapted to have a metal backing secured thereto, said facing having a concave rear, thereby permitting a heavier backing for the same size of tooth and thereby increasing the strength of the same.

1,384,870. HEELING-MACHINE. JOHN F. STANDIAH, Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 18, 1918. Serial No. 223,101. 30 Claims. (Cl. 1—32.)

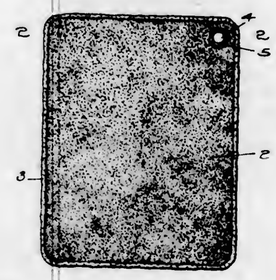
1. In a heeling machine, the combination of a work engaging member, power operated means for actuating the said member, yielding power transmitting connections between the actuating means and the member, and means for preliminarily adjusting the connections to transmit the pressure in a variable manner during the application thereof.



4. In a heeling machine, the combination of a work engaging member, power operated means for actuating said member, frictional power transmitting connections between the actuating means and the member, and means for insuring a progressive increase of the friction in said connections while the pressure is being applied to the work.

30. In a heeling machine, the combination of a nailing die, toggle mechanism for advancing the die to apply pressure to the work, a lost motion connection between the toggle and the nailing die, and means for eliminating the lost motion in alternate cycles of operation of the machine.

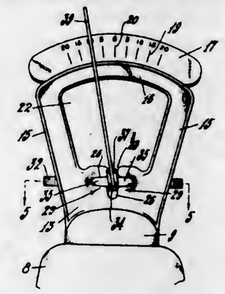
1,384,871. WASHCLOTH AND PROCESS OF MAKING IT. PAUL D. STEELE and ALBERT E. SIDNELL, Denver, Colo. Filed November 10, 1920. Serial No. 423,058. 6 Claims. (Cl. 18—53.)



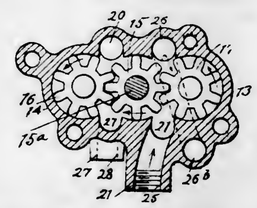
1. The process of producing rubber wash-cloths consisting in subjecting a sheet of craped crude rubber to the dissolving and curing actions of a solution of benzene and sulfur chlorid.

1,384,872. OPHTHALMIC-MOUNTING-ADJUSTING DEVICE. FREDERICK A. STEVENS, Providence, R. I., assignor to Stevens and Company, Incorporated, a Corporation of Rhode Island. Filed Apr. 7, 1919. Serial No. 288,211. 7 Claims. (Cl. 33—200.)

1. In an optical adjusting device, the combination of a base, and a frame on the base provided with an opening and with an oblong slot adjacent to the opening, there being inwardly directed fingers with spaced ends intermediate the opening and the slot, the space between the finger ends intersecting said slot.

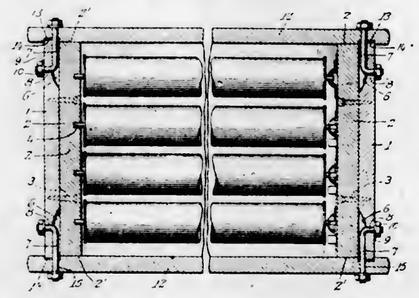


1,384,873. LUBRICATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. WILLIAM R. STRICKLAND, Cleveland, Ohio, assignor to The Peerless Motor Car Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 16, 1918. Serial No. 254,272. 8 Claims. (Cl. 184—27.)



6. The combination with an internal combustion engine having a lubricating system and an oil receptacle, of an engine driven pump comprising a chamber containing oil impelling means, said chamber having two inlets, one connected to the crank-case and one to the receptacle, and having an outlet connected to the lubricating system, said impelling means adapted to receive oil from both inlets and to deliver it to the outlet leading to the lubricating system.

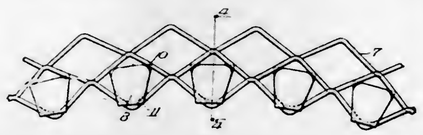
1,384,874. MAP-CASE. FRANK H. SWANSON, Chicago, Ill., assignor to A. J. Nystrom and Company, a Corporation of Illinois. Filed Jan. 7, 1920. Serial No. 350,041. 8 Claims. (Cl. 217—12.)



1. In a map case; the combination of upper and lower crown pieces having transverse gains adjacent to their

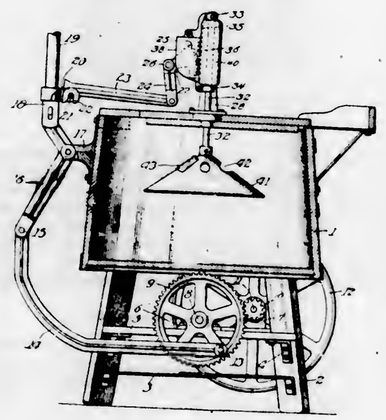
ends, end pieces having their ends adapted to enter said gains, bracing pieces securely attached to the end pieces, and means for drawing the ends of the bracing pieces into rigid contact with said crown pieces.

1,384,875. BRAKE-SHOE. JAMES S. THOMPSON, Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 17, 1919. Serial No. 345,535. 12 Claims. (Cl. 188—257.)



1. An assembly of parts for embedment in the body of a brake shoe comprising a plurality of strips of reticulated metal arranged side by side on edge with openings in registration, and inserts insertible endwise in registered openings of the strips and adapted to be turned into interlocking engagement with the walls thereof.

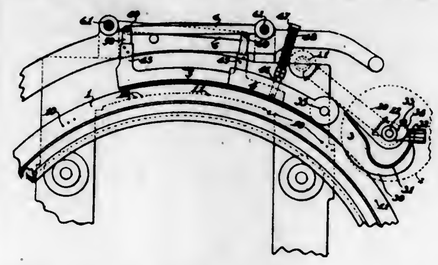
1,384,876. WASHING-MACHINE MECHANISM. WILLIAM H. VOSS, Davenport, Iowa. Filed July 21, 1917. Serial No. 181,935. 9 Claims. (Cl. 74—14.)



4. In combination, a straight rack, plates upstanding from said rack in alinement with the opposite edges thereof, whereby a space is formed between said plates of a width substantially equal to the width of said rack, a gear segment between said plates engaging said rack, and means on said segment engaging the inner faces of said plates, whereby when operated the movement of said rack will be confined to a straight line.

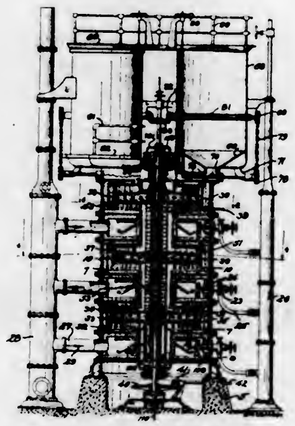
1,384,877. SCRAPER FOR FISH-DRESSING MACHINES. EDWARD H. WAUGH, Seattle, Wash., assignor to Smith Cannery Machines Company, Seattle, Wash., a Corporation of Washington. Filed Mar. 3, 1920. Serial No. 362,998. 15 Claims. (Cl. 17—10.)

1. In a fish dressing machine, in combination, a carrier for the fish, a scraper having its scraping edge placed diagonally of the path of the carrier and supports for said scraper comprising arms pivoted toward the ends of the scraper and extending back toward the opposite ends



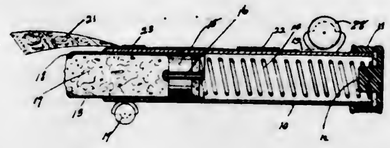
of the scraper, and pivot supports for the other ends of said arms.

1,384,878. DISTILLATION-FURNACE. JOHN N. WINGETT, Denver, Colo., assignor to The American Shale Refining Company, Denver, Colo., a Corporation of Arizona. Filed July 19, 1917. Serial No. 181,528. 1 Claim. (Cl. 196—19.)



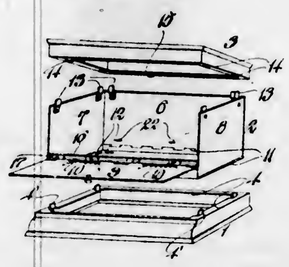
A furnace comprising superposed vaporizing and combustion chambers alternately arranged, linings for said chambers, outer shells for said chambers, horizontal plates lying between the top and bottom walls of adjacent chambers, extending between the outer shells of adjacent chambers and spacing the shells from the linings to provide insulating spaces therebetween.

1,384,879. ENVELOP MOISTENING, SEALING, AND STAMPING DEVICE. PHILIP M. ZENNER, Athens, Ohio, and HOWARD H. WILLIAMS, Huntington, W. Va. Filed Sept. 10, 1919. Serial No. 322,852. 2 Claims. (Cl. 216—3.)



1. An envelop moistening and sealing device comprising a water retaining tube and a sponge retaining tube secured for telescopic movement upon each other, the sponge retaining tube being provided with a cap at its base, and an orifice in said cap, and the water retaining tube being provided with a coil spring designed to butt against the cap of the sponge retaining tube and its other end being held in engagement against a head which closes the water retaining tube, substantially as shown and described.

1,384,880. FILING-CABINET. ALLEN P. ASHER, Sandpoint, Idaho. Filed Aug. 10, 1920. Serial No. 402,611. 5 Claims. (Cl. 45—78.)



1. The combination in a filing cabinet, with a base and locking tongues thereon, of a filing section having a fixed, slotted bottom supported on the base, hinged ends and back plate on said section, a superposed member having means for retaining the ends and back plate in rigid normal position, and an openable front door to said section.

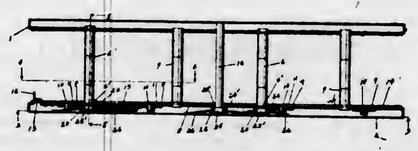
1,384,881. [WITHDRAWN.]

1,384,882. INDEX DEVICE. JAMES BARKER, Detroit, Mich. Filed Dec. 6, 1917. Serial No. 205,733. 3 Claims. (Cl. 40—63.)



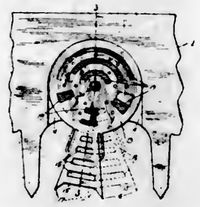
3. A card holding strip formed of transparent material and of a substantial U-shape, the sides of said strip being inclined toward each other as they extend from the bend of the strip to frictionally engage a card received in said holder.

1,384,883. TEMPORARY BINDER. JAMES BARKER, Kalamazoo, Mich. Filed Oct. 29, 1920. Serial No. 420,368. 13 Claims. (Cl. 129—8.)



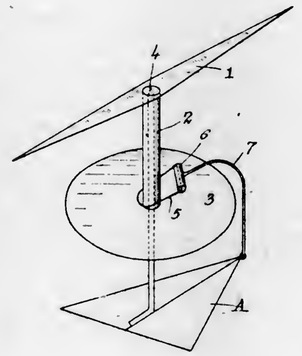
13. In a temporary binder, the combination of binder members, a locking means therefor, and a removable post constituting a control for said locking means whereby the locking means is operative to lock the binder only when the removable post is in position.

1,384,884. SAW. ERIC BECK, Aberdeen, Wash. Filed Oct. 6, 1920. Serial No. 414,990. 4 Claims. (Cl. 143—144.)



1. In a saw, a recessed blade, the recessed portions of said blade being slotted and perforated, oscillating teeth, operatively disposed in the recessed portions of said blade, and means connecting said oscillating teeth and the slotted portions of the saw blade for securing said members together and for determining the degree of movement of said teeth in each direction.

1,384,885. DAMPING DEVICE FOR COMPASSES. EDVARD GUSTAVSEN BERGMANN, Christiania, Norway. Filed June 11, 1920. Serial No. 388,115. 3 Claims. (Cl. 33—222.)

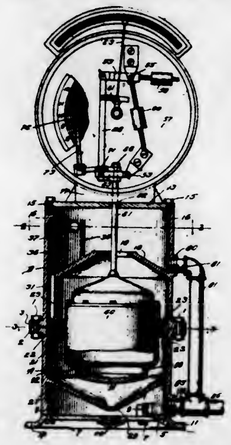


1. In a damping device for compasses such as ships or aeroplane compasses the combination with a compass needle, a damping disk fastened to the compass needle of a horizontal sleeve or bearing, a hoop or arm loosely mounted in said sleeve or bearing and resting with its free end on the damping disk in such a manner that it may follow small oscillations of the disk without sliding on the same.

1,384,886. TESTING DEVICE. RICHARD G. BRINDLE, Chicago, Ill., assignor of one-half to Wade W. Reece, Chicago, Ill. Filed Oct. 27, 1919. Serial No. 333,597. 13 Claims. (Cl. 265—45.)

1. In a testing device, a liquid containing receptacle, a displacing body suspended in such receptacle, means for

indicating changes in the upward and downward pressure of such displacing body, and means for introducing liquid



into the receptacle substantially in a horizontal plane passing through the center of the displacing body.

1,384,887. TOOL-HANDLE. JOHN E. BURNDAHL, Chicago, Ill. Filed Sept. 27, 1920. Serial No. 413,007. 3 Claims. (Cl. 145—61.)



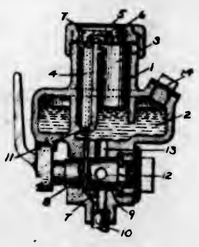
3. A tool and handle therefor arranged to have an angular adjustment with relation to the tool and from which the tool may be readily detached, comprising a tool, having a circular angle determining head, the handle having means for engagement with the head at the desired angle and means carried by the handle normally engaging the head on opposite sides thereof in a manner to permit the pivoting in the desired position but movable to disengage such pivotal engagement, and having extensions providing means for readily so moving them and thus detaching the tool head, said handle being slotted to receive the circular tool head and provided with another slot transverse to the first, the tool head having lateral trunnions engageable by and seated in the end of the transverse slot.

1,384,888. LEAK-DETECTOR. BERT CARLISLE, Santa Ana, Calif. Filed Mar. 19, 1920. Serial No. 367,116. 1 Claim. (Cl. 73—51.)



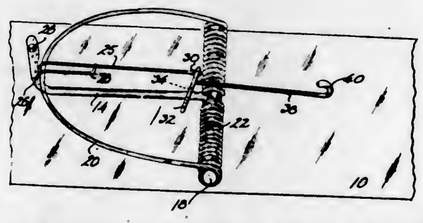
A valve leak detector including a stem of relatively thick and stiff rubber formed with an external bead at one end, and a bulb of thin and highly elastic rubber, the mouth of said bulb being stretched over said bead and vulcanized to the stem.

1,384,889. PUMP-LUBRICATOR. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 12, 1920. Serial No. 380,857. 3 Claims. (Cl. 184—55.)



3. A lubricator for fluid compressors comprising a casing having an oil reservoir subject to the pressure of fluid compressed by the compressor, a plug adapted upon removal to provide an opening through which oil may be supplied to the reservoir, and valve means operated upon removal of the plug for closing communication through which fluid under pressure is supplied from the compressor to the lubricator and upon application of the plug in position for opening said communication.

1,384,890. ANIMAL-TRAP. WILLIS B. GILMORE, Idaho Springs, Colo. Filed June 1, 1920. Serial No. 385,599. 6 Claims. (Cl. 43—81.)



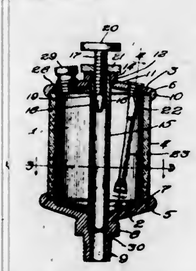
1. A trap comprising a main arm adapted to be affixed to a suitable base, a trigger mounted on said arm, a spring bail connected with said main arm, and a bait holder mounted on said arm, slidable in the direction of the length of the trigger and adapted to releasably engage one end of the trigger, said trigger being adapted to retain the bail in set position.

1,384,891. MAT. HERMAN E. GOTHBERG, Roselle Park, N. J. Filed Feb. 12, 1919. Serial No. 276,642. 8 Claims. (Cl. 280—169.)



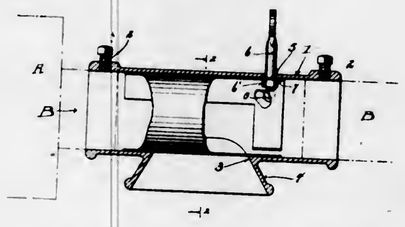
3. In a mat, a supporting frame, gripping means supported in said frame in spaced relation, and brush members disposed within the spaces between said gripping means and spaced from said gripping means, the upper surface of said brush members being above the upper surface of said gripping means.

1,384,892. AUTOMATIC FEEDING DEVICE FOR GRAPHITE OR THE LIKE. BURTON U. HILLS, Chicago, Ill. Filed Apr. 1, 1918. Serial No. 225,951. 7 Claims. (Cl. 184—59.)



7. In a device of the kind described and in combination, a substantially fluid-tight receptacle having an outlet passage extending through its base and connected to the receptacle on the interior thereof near the top, an inlet pipe having a nozzle at its lower end attached to the upper end of the receptacle near its periphery and projecting adjacent the bottom of the receptacle for admitting fluid to the receptacle below the top of the contained material, means for controlling the movement of the fluid passing through the receptacle and means in said pipe for preventing the re-admission of fluid to the receptacle through said outlet passage.

1,384,893. MUFFLER-CUT-OUT VALVE. JARRETT W. HORINE, Milwaukee, Wis. Filed Dec. 21, 1920. Serial No. 432,258. 2 Claims. (Cl. 251—96.)



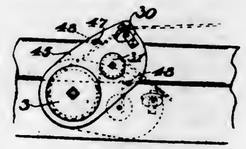
1. A muffler attachment comprising a cylindrical valve casing, having an oval by-pass port and a radial slot offset therefrom, a resilient split sleeve valve shell revolubly mounted therein adapted to control the by-pass port, and an actuating arm extending from the sleeve through the valve casing slot.

1,384,894. BEVERAGE MATERIAL AND THE PROCESS OF MAKING SAME. ARNOLD A. HOALICK, Milwaukee, Wis. Filed Feb. 16, 1920. Serial No. 358,868. 5 Claims. (Cl. 99—11.)

3. The herein described method of manufacturing a beverage material which consists in mixing fifty pounds of malted oats with fifty pounds of oat flour and one hundred gallons of water, heating the mixture to dissolve portions of the grain, adding sodium chlorid, potassium bicarbonate and sodium bicarbonate to said heated mixture, again heating the mixture, filtering the same to remove the undissolved residue, adding twenty-five gallons of milk to the mixture while heated, and thereafter removing the moisture from the complete mixture.

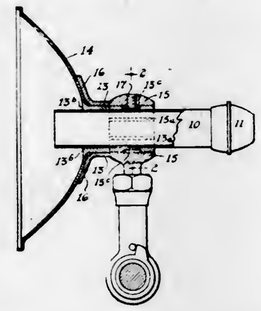
5. A food product of the character set forth containing milk, the soluble constituents of a mixture of malted and unmalted oats, sodium chlorid, potassium bicarbonate, and sodium bicarbonate.

1,384,895. POWER-GURDY. FRANK A. HOUCK, Ketchikan, Alaska. Filed Feb. 3, 1920. Serial No. 355,940. 2 Claims. (Cl. 254—137.)



1. In a power gurdy, a line-hauling wheel journaled at the rail, a frame pivotally mounted upon the rail and line guiding pulleys carried by the swinging end of said frame.

1,384,896. SPOTLIGHT. EARL H. HOWARD, Los Angeles, Calif., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 3, 1919. Serial No. 335,331. 5 Claims. (Cl. 240—7.)



1. In a device of the class described, a standard having a bore therein, a lamp socket in said bore, a tube around said socket, said tube being flanged at one end and longitudinally slit at the other end, said tube being formed with a circumferential groove, a reflector held by said flange, a flange around said tube and against the outer face of the reflector, the tube being screw-threaded into said bore, and the flange around the tube being held between the reflector and the standard, and means passing through said standard and projecting into said groove in the tube serving to compress the slit part of the tube against the lamp socket and to hold the tube against unscrewing from the standard.

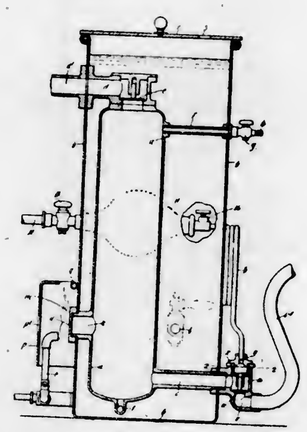
1,384,897. METHOD OF MAKING CURVED PRINTING-PLATES. HENRY E. HUBBARD, Oak Park, Ill., assignor to Addressograph Company, Chicago, Ill., a Corporation of Illinois. Original application filed Mar. 8, 1915, Serial No. 12,817. Divided and this application filed Aug. 19, 1918. Serial No. 250,601. 6 Claims. (Cl. 101—369.)



1. The method of making curved printing plates which consists of striking up printing characters on one face of a

plate and then subjecting the plate to pressure between concavo-convex surfaces, the surface contacting with said characters being of resilient material.

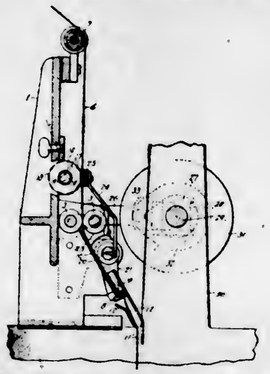
1,384,898. APPARATUS FOR PRODUCING A VACUUM FOR VACUUM-CLEANING AND DUST-REMOVING PURPOSES. BERTRAM CHARLES JOY, Hempstead, London, England. Filed Feb. 16, 1920. Serial No. 358,872. 4 Claims. (Cl. 160—1.)



1. For vacuum cleaning apparatus, automatically operating means for creating a partial vacuum, comprising a pistonless explosion chamber of considerable length as compared with its transverse dimensions, an inlet for air and gas near one end of said chamber, a mixing chamber communicating with said inlet, a screen of reticulated material adjacent said mixing chamber, a gas supply pipe in open communication with said explosion chamber through said screen and said mixing chamber and inlet, an air inlet suction pipe opening into said mixing chamber adjacent said gas supply pipe, a non-return valve in said air inlet pipe, an outlet valve connected with the other end of said chamber and adapted to be opened by superior pressure within said chamber, and means for igniting an explosive gaseous mixture in said chamber, the arrangement being such that when an explosion takes place in the explosion chamber, the gas supply is driven back in the gas supply pipe and replaced by products of combustion, so that the latter must be withdrawn from the gas supply pipe at the same time that air is drawn in through the air inlet suction pipe, before gas and air can be drawn in simultaneously.

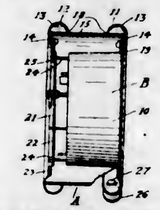
1,384,899. NUMBERING DEVICE FOR WRAPPING-MACHINES. ANDREW C. KAPPES, Chicago, Ill., assignor to William Wrigley Jr. Company, Chicago, Ill., a Corporation of West Virginia. Filed May 28, 1920. Serial No. 384,857. 8 Claims. (Cl. 101—21.)

1. In a wrapping machine, the combination with means for advancing a continuous strip of paraffined wrapping material, and cutting mechanism for cutting said strip into sheets of predetermined lengths, of a numbering device comprising a heated impression member located adjacent the path of said strip, and a member operatively connected with said cutting mechanism to bring said strip into contact with said impression member, its operation being



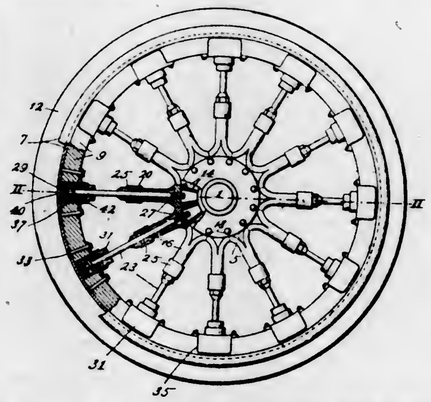
synchronized with said cutting mechanism to produce an impression in the paraffin on each sheet.

1,384,900. CLOCK-CASE. FRANK J. KRISTOFEK, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a Corporation of Minnesota. Filed Mar. 24, 1921. Serial No. 455,069. 6 Claims. (Cl. 58—54.)



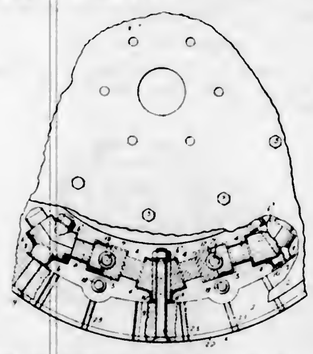
6. A clock-case including a pair of rings, a tubular spacing member adapted to freely engage said rings and means for rigidly supporting a clock works within and between said rings in a manner to lock said case parts together.

1,384,901. RESILIENT WHEEL. WILLIS W. KRAUTSCH, Coffeyville, Kans. Filed Feb. 6, 1919. Serial No. 275,293. 1 Claim. (Cl. 152—53.)



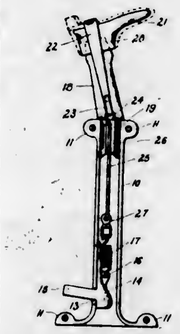
A vehicle wheel consisting of a rim, a hub, tubular spoke members secured to said hub and having outer tapered split terminals, internal nuts in said tubular spoke members, companion spoke members having their inner ends threaded into said tubular spoke members, compression nuts threaded upon the split terminals of the tubular spoke members to cause said terminals to grip the companion spoke members, and means yieldably connecting the outer ends of the companion spoke members to the rim.

1,384,902. AUTOMOBILE-WHEEL. JOHN L. KUNZ, Milwaukee, Wis. Filed Sept. 16, 1918. Serial No. 254,299 14 Claims. (Cl. 152—28.)



2. A resilient wheel, including the combination with the body portion and rim portion of an annular series of non metallic resilient straight members, having oblique end faces in pressure contact with each other, and rigidly coupled to the rim, each section being secured to the wheel body at points intermediate to the points of connection with the rim.

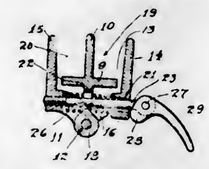
1,384,903. SHOEMAKER'S JACK. GASPARD LAPORTE, Pawtucket, and OCTAVE LAPORTE, Centerville, R. I. Filed Oct. 29, 1919. Serial No. 334,205. 1 Claim. (Cl. 12—123.)



A shoemaker's jack comprising a tubular standard, an extension member having a trunnion at its lower end rotatably mounted in said standard, a last mounted on the upper end of said extension, said trunnion being provided with longitudinally-disposed recesses in opposite sides thereof, a foot treadle, said standard being provided with a retaining notch to receive said treadle, a strap looped over said last, a U-shaped connection member extending through said recesses, a spring and a swivel interposed between said treadle and said connection-member, and means for binding said trunnion in adjusted position.

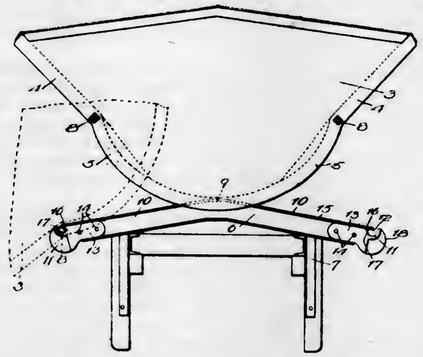
1,384,904. GUIDE AND POSITION-GRIP FOR SLIDING VEHICLE-WINDOWS. ALBERT E. LATTIMORE, San Francisco, Calif. Filed May 26, 1920. Serial No. 384,369. 4 Claims. (Cl. 292—55.)

1. A guide and position stop for sliding vehicle windows, comprising a pair of spaced guide walls movable one relatively to the other, a fixed dividing wall disposed between said guide walls for dividing the space therebetween into a pair of guide channels open at their top and opposite ends and through each of which is adapted to slide the lower edge of a vehicle window frame, means for mounting the dividing wall in position on a vehicle, a fulcrum connecting the lower ends of said guide walls beneath said



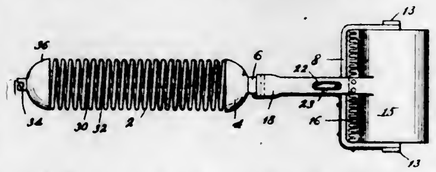
dividing wall, a shouldered adjusting screw threaded into one of said guide walls with the shoulder contacting with the other and adapted for rotation to vary the transverse area of said channels to clamp the windows in their adjusted position therein and spring means surrounding said adjusting screw and contacting with the arms to separate the same on the release of the screw.

1,384,905. RAIL CONSTRUCTION FOR ROLLING HOPPERS. ALBERT P. LEE, Chicago, Ill., assignor to Lee Trailer & Body Company, Chicago, Ill. Filed July 28, 1920. Serial No. 399,520. 3 Claims. (Cl. 298—10.)



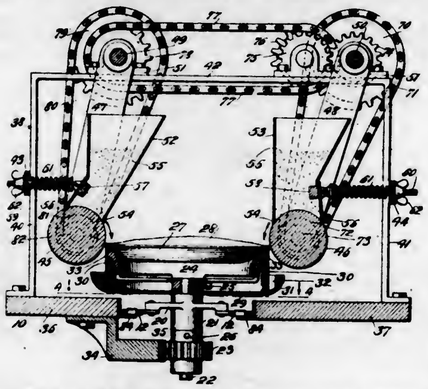
1. In a device of the character described, the combination of a rail, a hopper adapted to roll on said rail from charge carrying to discharge position, coöperating pivot members on said rail and hopper comprising a pin and a socket portion in which said pin is adapted to pivot, and an overhanging guard to hold said pin in said socket when said hopper reaches its limiting dumping position.

1,384,906. SAFETY HAIR-STRAIGHTENING DEVICE. EDWIN S. LEE, Kansas City, Mo. Filed Sept. 4, 1920. Serial No. 408,187. 5 Claims. (Cl. 219—21.)



1. A device of the character described consisting of a roller, a shaft upon which said roller is journaled, a handle associated with said roller and the shaft, and a comb associated with said handle and partly surrounding the periphery of the roller.

1,384,907. PIE-CRUST-TRIMMING MACHINE. JOHN J. LINDEN, Jersey City, N. J., assignor to Benjamin B. Vander Veer, New York, N. Y. Filed Dec. 31, 1920. Serial No. 434,205. 12 Claims. (Cl. 107—1.)

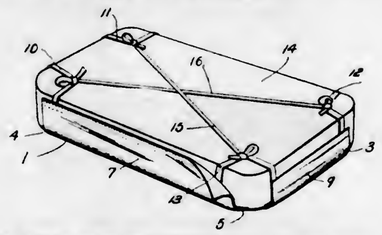


1. In a machine of the character described, a support for a pie-tin, means for effecting the travel of said support along a fixed path, means for rotating said support about its vertical axis during the travel thereof, a roller at one side of the line of travel of said support and means for rotating said roller downwardly against the edge of the pie-tin during the travel and rotation of said support, for trimming the pie-crust.

7. In a machine of the character described, a support for a pie-tin, rollers at opposite sides of said tin for engaging the same and trimming the pie-crust, means for rotating said support to carry the edge of said tin on a circular path against said rollers, and means for rotating said rollers on their longitudinal axes in a direction toward each other and downwardly against opposite edges of the pie-tin during the rotation of said tin.

12. In a machine of the character described, a pair of endless conveyer chains having and carrying a series of independent supports for pie-tins mounted to rotate on their vertical axes, means for effecting the travel of said conveyer, means for successively rotating said supports during a portion of the travel thereof, circular open-top troughs carried with said supports and extending outwardly beyond the sides of the same to receive the pie-crust trimmings, rollers at the sides of the line of travel of said supports and having outwardly diverging surfaces at their forward or entrance ends, and means for rotating said rollers on their longitudinal axes in a direction toward each other and downwardly against opposite edges of the pie-tins during the travel and rotation of the successive supports between them, for trimming the pie-crust.

1,384,908. SLIP-ON COVER. PAUL M. LOCKWOOD, Kansas City, Mo. Filed Apr. 22, 1920. Serial No. 375,713. 2 Claims. (Cl. 155—182.)

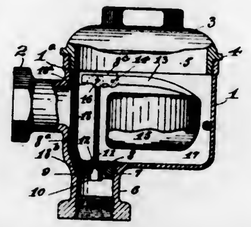


1. A slip-on-cover for cushions comprising a sheet having drop portions and closed loops connecting adjacent drop portions adapted to engage under the corners of the cushion.

1,384,909. ART OF HALOGENATING HYDROCARBON COMPOUNDS. CHAUNCEY C. LOOMIS, Syracuse, N. Y., assignor to Semet-Solvay Company, Solvay, N. Y., a Corporation of New York. Filed Nov. 8, 1917. Serial No. 200,871. 6 Claims. (Cl. 23—24.)

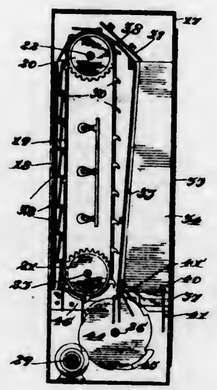
1. The improvement in the art of halogenating toluene and its homologues and substitution products in the side-chain, which comprises subjecting the same to the action of a halogen in the presence of an alkali-metal carbonate.

1,384,910. TRAP. JAMES J. MCDONALD, Cleveland, Ohio. Filed Oct. 6, 1919. Serial No. 328,747. 3 Claims. (Cl. 137—113.)



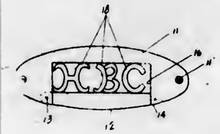
1. In a device of the character set forth, the combination of a casing, and a threaded closure cap in the top thereof, said casing having an inlet connection and provided with an outlet connection in the bottom thereof having at its upper end an outwardly flaring seat, a valve-seat fitting provided with a complementary flared surface engaging the flared seat of the outlet connection and having an upwardly extending valve seat and an aperture communicating with said seat and extending through the top thereof, a valve in said fitting having a stem extending through said aperture, said valve-seat fitting provided with an upwardly extending arm adapted for engagement with the closure cap, an inward projection on said arm near the top thereof, a lever fulcrumed on said projection, one arm of said lever pivotally connected with the valve stem, and a float fixed to and depending from the opposite arm of said lever.

1,384,911. SIGN. ARCHIBALD D. MCKELLAR, Chicago, Ill. Filed Aug. 28, 1917. Serial No. 188,671. 6 Claims. (Cl. 40—36.)



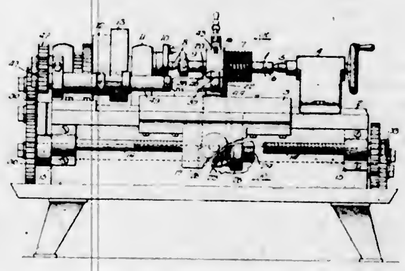
1. A sign comprising a case; a carrier removably mounted in said case and adapted and arranged to contain a complete set of sign members; manually operable members for locking said carrier in said case: a traveling conveyer arranged to exhibit said sign members; means for withdrawing sign members from said carrier, and operatively connecting them with said conveyer; and means for withdrawing said sign members from said conveyer and discharging them into said carrier, substantially as described.

1,384,912. INDICATING-PLATE. NORA E. MCMAHON, Columbia, Tenn. Filed May 8, 1920. Serial No. 379,780. 2 Claims. (Cl. 40—140.)



1. As a new article of manufacture, a monogram plate comprising a frame having one side thereof pivotally mounted at one end for ready separation from the opposite side of said frame, said opposite sides of said frame being provided with transversely registering pockets; and indicating members having projections at opposite ends arranged to seat in said pockets, whereby said indicating members are separately and independently supported in said frame, substantially as described.

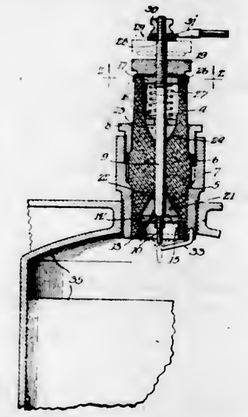
1,384,913. SCREW CUTTING AND RELIEVING MACHINE. CARL G. OLSON and NIKOLA TRBOJEVICH, Chicago, Ill., assignors to Illinois Tool Works, Chicago, Ill., a Corporation of Illinois. Filed June 27, 1919. Serial No. 307,082. 15 Claims. (Cl. 10—102.)



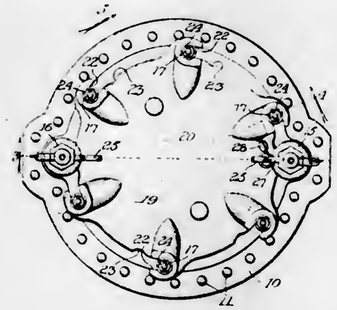
9. In a machine tool adapted to generate threads upon a cylindrical blank, the combination of a work holder adapted to rotate the blank, a multiple tooth cutter resembling a gear wheel, a carriage wherein the cutter is mounted, a feed screw for causing the carriage to travel, a gear wheel parallel to the cutter and rigidly fastened to it and having a diameter substantially equal to its diameter, and a non-traveling member engaged by said gear wheel and arranged parallel to the axis of the work, said non-traveling member having projections adapted to engage the teeth of the gear wheel whereby said gear wheel is caused to roll along said nontraveling member by the travel of the carriage.

1,384,914. SPARK-PLUG. WILLIAM P. ORSINGER, Chicago, Ill. Filed Oct. 18, 1919. Serial No. 331,653. 9 Claims. (Cl. 123—169.)

1. In combination, a spark plug having a reciprocating electrode, and a device serving in one position for normally holding said electrode a predetermined distance from the stationary electrode, said device, when moved to its alternate position on said electrode permitting said electrode to be reciprocated by the suction and compression of the engine.

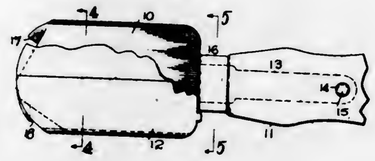


1,384,915. RECEPTACLE. OSTRANDER J. PARKS, River Forest, Ill., assignor to General American Tank Car Corporation, Chicago, Ill., a Corporation of West Virginia. Filed Dec. 15, 1919. Serial No. 345,097. 2 Claims. (Cl. 220—55.)



1. The combination with a receptacle containing an opening, of closure means therefor comprising a cover and shouldered members on the tank, the shoulder portions of which are vertically adjustable toward and away from the tank, said cover being adapted to be rotated at said opening and provided at intervals, at its marginal portion, with radially-extending thickened portions which are spaced from the body of the cover and extend beyond the edge thereof with their upper surfaces raised above the plane of the cover and which with the latter form circumferentially-extending recesses which extend in the same direction, and each presenting, by reason of said radially-extending portions and the adjacent portions of said body portion, a pair of surfaces spaced apart and adapted, in one position of said cover, to interlock with said shoulder portions and limit outward movement of said cover, but be out of interlocked relation with said shoulder portions when rotated to another position of said cover, adapting the cover to be bodily removed from the tank.

1,384,916. GAGE-KNIFE. ORIGENE J. PAQUETTE, Southbridge, Mass., assignor to The Stephen Richard Company, Inc., a Corporation of Massachusetts. Filed May 26, 1920. Serial No. 384,481. 5 Claims. (Cl. 30—20.)



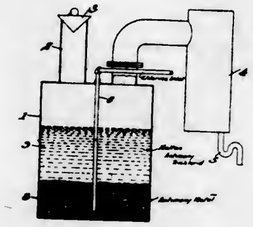
1. A gage knife comprising a handle, a flat blade fixed to said handle and having an undercut hook-like cutting portion, and a sheath fitting said blade and through which said cutting portion extends a predetermined distance.

1,384,917. STAINLESS PASTE. DELLE M. PHILLIPS, Long Beach, Calif. Filed Aug. 21, 1920. Serial No. 405,056. 9 Claims. (Cl. 87—17.)

9. A paste consisting of the following ingredients having the following proportions:—

Water	One pint.
Rice flour	One-half pound.
Corn starch	One-quarter pound.
Gum arabic	One-eighth ounce.
Aluminum sulfate	One-quarter ounce.
Glycerin	One-half dram.
Oil of cloves	One-quarter dram.
Oil of cinnamon	One-quarter dram.

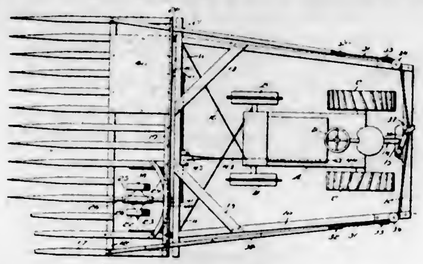
1,384,918. PROCESS OF MAKING ANHYDROUS ANTIMONY TRICHLORID. OLIVER C. RALSTON, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Aug. 10, 1920. Serial No. 402,621. 3 Claims. (Cl. 23—10.)



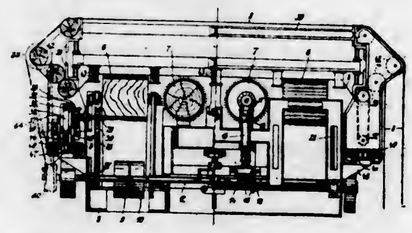
1. Process of making anhydrous antimony trichlorid consisting in reacting with gaseous chlorin upon antimony metal submerged beneath a molten bath of anhydrous antimony trichlorid.

1,384,919. MOTOR-DRIVEN BUCK-RAKE. EARL W. REED, Sunnyside, Wash. Filed Apr. 27, 1920. Serial No. 376,899. 11 Claims. (Cl. 56—27.)

1. In a rake, a wheeled rake head, a frame rearwardly of said head and pivotally connected thereto, the frame being supported in substantially horizontal position and having an open center, and a tractor located in the open center of said frame, having detachable connection therewith, and means on the frame and connected with the head to vary the disposition of said head and frame relative to each other, hangers for the wheels of said head, and means for adjusting the hangers to permit the guiding of the head.

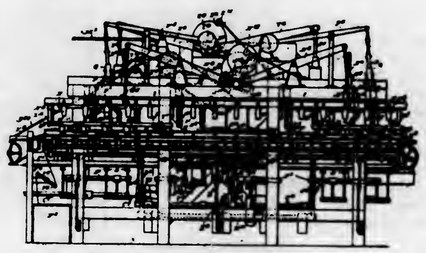


1,384,920. MACHINE FOR RAISING NAP ON FABRICS. JULES REGOUT, Jr., Maastricht, Netherlands. Filed July 23, 1919. Serial No. 312,867. 5 Claims. (Cl. 26—4.)



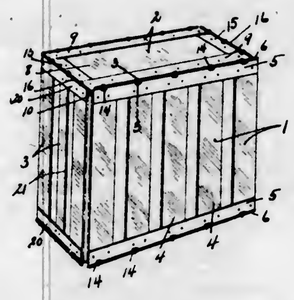
1. A machine for raising nap on fabrics, comprising a fixed frame, a traveling carriage movable to and fro on said frame, a plurality of raising rollers and driving means for the same mounted in said frame, some of the rollers being adjustable in height, rollers for guiding the fabric through the machine, said rollers being mounted on the traveling carriage, means for deriving the reciprocating motion of the carriage from the driving mechanism for the raising rollers, and means for converting the reciprocating motion of the carriage into a rotary motion for rotating the guiding rollers for the fabric.

1,384,921. MACHINE FOR FORMING AND WRAPPING SMALL PACKAGES OF BUTTER. WILLIAM O. REW, Eureka, Calif. Filed Feb. 18, 1920. Serial No. 359,630. 27 Claims. (Cl. 93—2.)



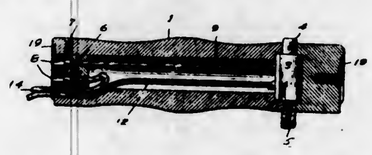
1. A plastic material package forming machine embodying means for dividing a plastic material into a plurality of uniform sections, means for uniformly separating the several sections from each other, and means for simultaneously wrapping the several separated sections.

1,384,922. COLLAPSIBLE CRATE. EDWARD L. RUPRACHT, West Monroe, N. Y. Filed Oct. 8, 1920. Serial No. 415,520. 2 Claims. (Cl. 217—12.)



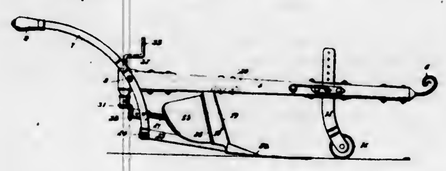
1. A collapsible crate including two sections, each having metallic reinforcing members at their edges, one of said metallic reinforcing members formed with a bead having a series of perforations, a wire extending through said bead, and having U-shaped clamping parts projecting through said perforations, the other of said metallic reinforcing members formed with a series of perforations through which clamping parts are extended and return bent to secure the parts together.

1,384,923. HANDLE FOR SADIRONS. JOHN J. SCHILDER, San Francisco, Calif. Filed Aug. 29, 1919. Serial No. 321,241. 2 Claims. (Cl. 219—25.)



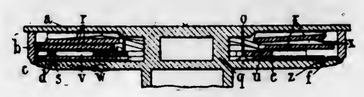
1. An article of manufacture comprising a detachable hollow handle; an electric switch mounted within the handle and having operating buttons extending beyond the surface of said handle; a contact plug mounted in one end of the handle and electrically connected to the switch; a second contact plug electrically connected to the first mentioned plug and the switch and adapted for connection to the terminals of an eleteric sad iron; and means for detachably securing said handle to a sad iron to replace a handle un-provided with current controlling means.

1,384,924. DOUBLE-MOLDBOARD PLOW. MIKEL SCHULTZ, Kaylor, Pa. Filed July 15, 1920. Serial No. 396,542. 1 Claim. (Cl. 97—26.)



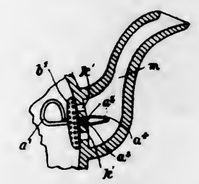
In a double mold board plow of the class described, a horizontal beam, a combined double stationary mold board and standard rigid with and extending downwardly from the intermediate portion of the beam, oppositely curved mold board wings hinged to the rear edges of the combined mold board and standard for a lateral swinging movement, a vertical crank shaft journaled in and extending through the rear end of said beam, a crank handle on the upper end of said crank shaft above the beam, a substantially horizontal screw arranged longitudinally beneath the beam and having its rear end geared to the lower end of said crank shaft, a nut threaded upon said screw and having flexible connections with said wings, said flexible connections each including a link pivoted to the nut and to one adjacent wing, a pair of plow handles secured against the opposite sides of the beam and extending above and below the latter, said screw being journaled at its forward end in the combined mold board and standard, and a swiveled bearing for the rear end portion of said screw carried by and mounted between the lower portions of said handles beneath the beam.

1,384,925. EXPANSIBLE CIRCULAR TABLE. JOSEF SEILER, Liegnitz, Germany. Filed Mar. 29, 1920. Serial No. 369,783. 3 Claims. (Cl. 45—9.)



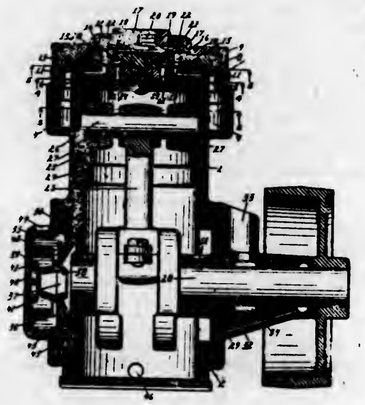
1. In an expansible circular table, the combination of a central support or pedestal, a stationary circular table top supported thereon, rigid arms extending from said support in the form of a cross, a rotatable rim having spiral grooves formed in its inner periphery in which grooves the ends of the said arms are slidably engaged, a plurality of enlarging plates which are normally retained within the rim under the stationary table top and are adapted to be moved outward to form an annulus around the periphery of the said stationary table top, a carrier-arm for each enlarging plate, a rotatable ring on which all the said carrier-arms bear and to which each of the said arms is coupled, and means for automatically tilting the said enlarging plates, when they are being moved inward, to cause them to take up automatically under the stationary table top positions in which they overlap each other like the leaves of a folded fan.

1,384,926. STRAINER FOR TEAPOTS. JOHN BEALBY SMITH, Stamford Hill, London, England. Filed May 18, 1920. Serial No. 382,322. 4 Claims. (Cl. 53—3.)



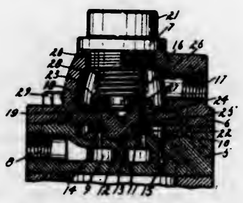
1. In a strainer for tea pots, a perforated disk, a spring wire closed loop on one side of said disk, shoulders upon the loop adapted to engage in a perforation in the tea pot, a pointed end to said loop to facilitate engagement with the perforation in the tea pot, a handle upon the other side of said disk, said handle being connected with said loop, so that said handle and said loop form together a rigid element whereby when inserting the strainer in the tea pot, the perforation in the tea pot for receiving the pointed end of the loop may be located by the sense of touch.

1,384,927. VACUUM-PUMP. KARL D. SMITH, Battle Creek, Mich., assignor to Union Steam Pump Company, Battle Creek, Mich. Filed Sept. 7, 1915. Serial No. 49,274. 27 Claims. (Cl. 230—34.)



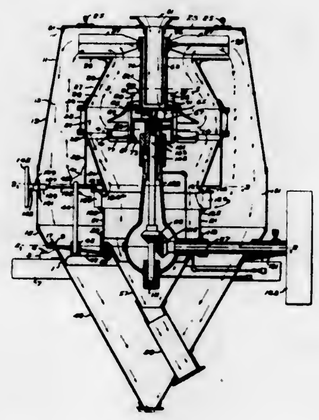
1. In a structure of the class described, the combination of a cylinder having an annular intake passage at its outer end provided with discharge openings at the end of the cylinder, a cylinder head comprising an inner plate-like head member having an annular inlet valve seat on its outer face and a plurality of radially disposed inlet passages communicating with said discharge openings of said intake passage and opening into said valve seat, and a plurality of cylinder ports grouped within said inlet passages, an intermediate plate-like head member having an annular discharge valve seat on its outer face and an annular recess in its inner face constituting an inlet valve chamber into which said cylinder ports open, said intermediate head member being also provided with discharge ports opening into said discharge valve seat, an outer head member having a recess in its inner face constituting a discharge valve chamber, said chamber being provided with a discharge opening, annular disk-like valves arranged in said valve chambers to coact with said valve seats, the diameters of said valves being such as to permit a limited lateral movement on their seats and the passage of air around and through the valves, and coiled seating springs for said valves, said intermediate and outer head members being provided with bore-like seats for said springs alined with said valves.

1,384,928. PUMP. KARL D. SMITH, Battle Creek, Mich., assignor to Union Steam Pump Company, Battle Creek, Mich. Filed Mar. 6, 1917. Serial No. 152,810. 2 Claims. (Cl. 230—34.)



1. In a structure of the class described, the combination with a cylinder, of a head therefor comprising a pair of superimposed head members, the inner head member being provided with an inlet passage, an annular inlet chamber, an inlet valve chamber in its outer face provided with an annular valve seat, a plurality of inlet ports opening into said valve seat, and a plurality of cylinder ports opening to said inlet valve chamber, the superimposed head member constituting the top of said inlet valve chamber and being provided with a stem disposed centrally of said inlet valve seat and with a discharge valve chamber and discharge passage therefor and having an annular discharge valve seat and a plurality of discharge ports opening into said inlet valve chamber and said discharge valve seat, annular disk-like valves disposed on said seats, a cap for said superimposed head member provided with a stem disposed centrally of said discharge valve seat, a coiled spring disposed on said stem on said cap to seat said discharge valve, and a seating spring for said inlet valve.

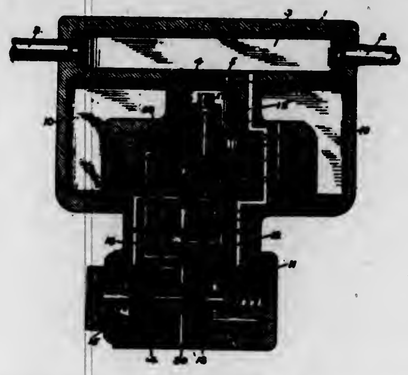
1,384,929. AIR-SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Aug. 25, 1919. Serial No. 319,646. 16 Claims. (Cl. 83—40.)



1. A separator for grading materials comprising, in combination, outer and inner chambers, a fan for producing an air circuit passing upward through the inner chamber and downward through the outer chamber, a vertical shaft mounted in said inner chamber; a rotary distributer on said shaft having a table to receive materials to be graded, an annular member to receive the materials from said table and deliver the same into the path of the air current rising in the inner chamber, said table and annular member being relatively adjustable to promote efficient distribution of materials of varying character, and means between the table and annular member to prevent the materials from escaping inward therebetween.

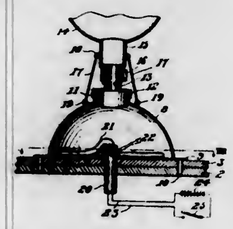
1,384,930. BRAKE-PIPE VENT-VALVE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 21, 1920. Serial No. 405,014. 4 Claims. (Cl. 303—82.)

1. In a fluid pressure brake, the combination with a brake pipe, a piston subject to the opposing pressures of the brake pipe and a chamber adapted to be charged from the brake pipe, and means operated by said piston for venting fluid from the brake pipe, of means operated upon increasing the brake pipe pressure to effect the release of



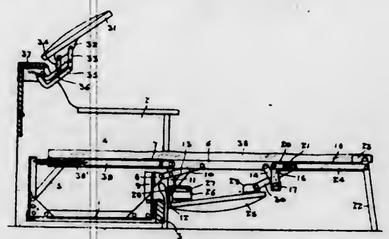
the brakes for preventing leakage of fluid from the brake pipe past the piston to said chamber.

1,384,931. SHIP-RAISING DEVICE. JOSEPH VERCHAK, Nutter Fort, W. Va. Filed Feb. 2, 1921. Serial No. 441,962. 3 Claims. (Cl. 114—68.)



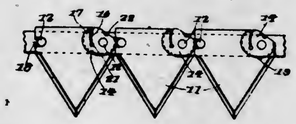
1. A ship raising device comprising in combination with a ship, a plurality of box casings secured to the deck of the ship, each casing including a hinged cover, a receptacle within the casing, a normally deflated bag in communication with said receptacle, a gas producing wick within the receptacle and electrical means for igniting the wick.

1,384,932. FOLDING BED. THOMAS WHISTANCE-SMITH, Mount Dennis, Ontario, Canada. Filed Jan. 11, 1919. Serial No. 270,726. 2 Claims. (Cl. 5—48.)



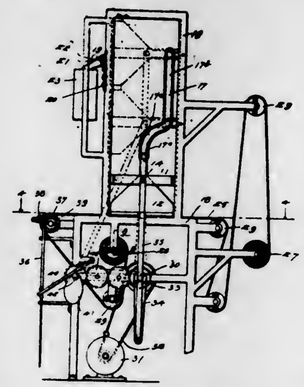
1. In a folding bed, a seat body, a rigid frame secured in said seat body having uprights at the forward side, a folding frame formed in three sections, the inner section being pivotally supported from the back portion of the rigid frame on a swinging pivotal support, the intermediate section having rigid bars pivotally connected to the front uprights of said rigid frame, link members pivotally connecting the adjacent ends of the inner and intermediate sections, said rigid bars extending downwardly from the intermediate section from the point of its pivotal connection with the link members, a seat having brackets at the inward side formed with longitudinal slots, said slots being engaged by the outward ends of the downwardly extending rigid bars from the intermediate section in sliding contact, an outer section pivotally secured to the intermediate section, legs supporting the outer end of said outer section, and link members pivotally connected to the inward ends of the outer section and extending beneath the intermediate section and pivotally connected to the seat and adapted upon the folding of the folding frame to slide the seat on its supports.

1,384,933. REMOVABLE BLADE FOR CUTTER-BARS. CHARLES B. WHITMOYER, Muncy, Pa. Filed Dec. 10, 1920. Serial No. 429,700. 5 Claims. (Cl. 56—300.)



1. The combination with a cutter bar of a headed member carried by the bar, a removable cutter blade having a recess for receiving said headed member, and a resilient rotatable locking means carried by the bar and arranged to frictionally engage the other side of the blade to maintain the blade in engagement with said headed member.

1,384,934. BLOCK-PRINTING MACHINE FOR FABRICS. HENRI GABRIEL EDOUARD AGIER, New York, N. Y. Filed Oct. 23, 1920. Serial No. 418,996. 7 Claims. (Cl. 101—295.)

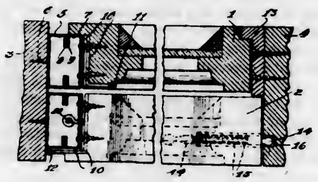


1. A fabric printing machine having a vertical guide frame, a follower or carrier reciprocably mounted in said frame, a tilting head fulcrumed for oscillatory movement upon the follower or carrier and carrying a printing block, color distributing means located at one side of the path of movement of the follower or carrier, supply and receiving drums for the fabric, and means for maintaining a prescribed area of the fabric in the path of movement of the printing block.

1,384,935. WINDOW CONSTRUCTION. GEORGE S. BENJAMIN, Detroit, Mich. Filed July 24, 1920. Serial No. 398,759. 1 Claim. (Cl. 20—49.)

In a window construction, the combination with a frame having a window opening, of a channel member ver-

tically extended upon said frame within said opening and having its edges flanged toward each other, a complementary channel member having its edges flanged toward each



other and return-bent to slidably embrace said flanges of the first mentioned channel member, and a sash hinged to sliding channel member.

1,384,936. TOOTHBRUSH. JAMES HARVEY BOWMAN, Honolulu, Hawaii. Filed Nov. 19, 1920. Serial No. 425,217. 2 Claims. (Cl. 15—39.)



1. The method of making a tooth brush comprising the division, by means of perforated lines, of a strip of paper into a plurality of substantially equal portions, the folding of said portions over one another along said perforated lines so as to form a block and the piercing of said block through said portions by a pin having a handle thereon.

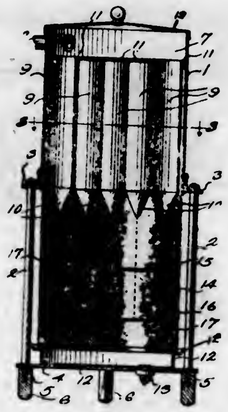
1,384,937. TOBACCO-BOX. HECTOR E. BRUNELLE, Manchester, N. H. Filed Dec. 2, 1919. Serial No. 341,873. 1 Claim. (Cl. 206—56.)



A tobacco box including a receptacle having an opening in opposite walls adjacent their upper ends, a follower slidably mounted in the receptacle and having openings adjacent its end and a groove in its under face connecting said last named opening, a cord extending through one of the first named openings and having one end tied in a knot to prevent said cord from being pulled through said first opening, said cord passing through said second named openings and resting in the groove and passed through one of the first named openings, and a catch carried by the receptacle to engage the free end of the cord.

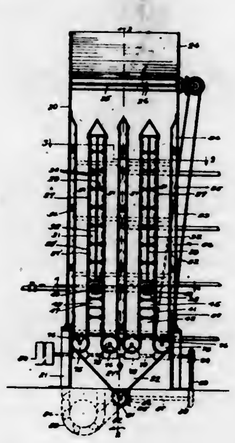
1,384,938. LIQUID COOLING AND AERATING DEVICE. CALVIN D. CRANE, Dayton, Ohio. Filed July 18, 1917. Serial No. 181,274. 11 Claims. (Cl. 261—111.)

2. In an aerator of the character described, a receiver, a supply reservoir located in separate spaced relation above the receiver having a discharge orifice for the fluid to be aerated, a perforate inclosure intermediate the supply reservoir and the receiver within which the liquid is discharged, and a substantially flat baffle plate within the



perforate inclosure intercepting the liquid in its passage from the reservoir to the receiver.

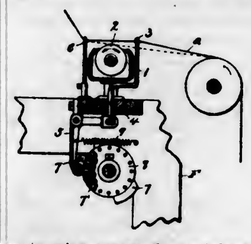
1,384,939. PROCESS OF AND APPARATUS FOR DISTILLING OCOTILLO AND THE LIKE. SAMUEL M. DARLING, Washington, D. C. Filed Feb. 21, 1919. Serial No. 278,470. 8 Claims. (Cl. 203—6.)



7. The herein described process of distilling ocotillo and the like, which consists in subjecting the same to the action of heat, whereby a carbonized residue is produced, collecting the gases distilled, passing said gases through a condenser and returning the uncondensed gases to the heated mass at the point of highest temperature.

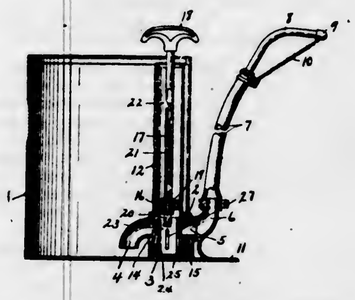
1,384,940. APPARATUS FOR COLORING OR PRINTING THREAD. HOWARD P. DENISON, Syracuse, N. Y. Filed Feb. 28, 1918. Serial No. 219,710. 5 Claims. (Cl. 91—12.01.)

1. In an apparatus for coloring yarn, thread or the like, means for moving the yarn longitudinally, a rotary absorbent member adjacent the yarn, means for applying die to said rotary member, and means for intermittently



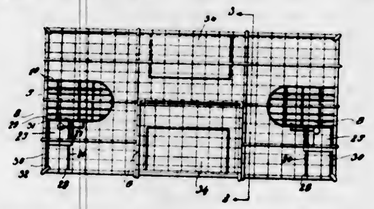
causing the yarn to wipe across the periphery of said rotary member, without interrupting the longitudinal movement of said yarn.

1,384,941. GREASE-GUN. ARZENO J. DILLEY, Muir, Mich. Filed July 2, 1919. Serial No. 308,190. 6 Claims. (Cl. 221—80.)



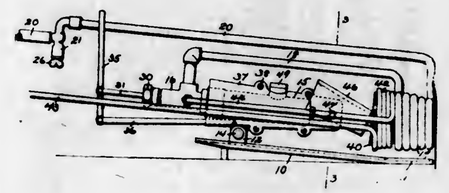
1. In a grease gun a piston cylinder having an inlet and an outlet, a piston movable therein, a sleeve valve controlling said inlet and said outlet, said valve connected to the piston for movement axially therewith to alternately open and close said inlet and said outlet.

1,384,942. TRAP. ALLEN DIXON, Nashville, Tenn., assignor of one-half to William N. Sanders, Nashville, Tenn. Filed Oct. 4, 1920. Serial No. 414,549. 1 Claim. (Cl. 43—66.)



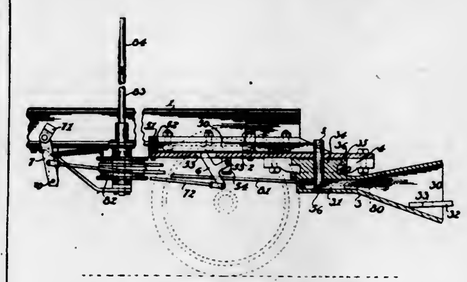
A trap comprising a cage having an entrance opening in each end, an entrance hood disposed over each of said openings and extending inwardly of the case, a bearing rod extending laterally of the bottom of the hood, a tread-plate, said plate having a pair of wires extending longitudinally thereof and looped around said rod for movably connecting the tread-plate thereto, a weight wire extending longitudinally and centrally of the tread-plate and then laterally through one side of the hood, a weight on the end of said weight wire, and means for preventing operation of the tread-plate from within the cage.

1,384,943. OIL-BURNER. THOMAS B. FERGUSON, Newark, N. J., assignor to Ferguson Forge Engineering Co., a Corporation of New Jersey. Filed Dec. 6, 1919. Serial No. 342,944. 6 Claims. (Cl. 158—56.)



6. An oil burner comprising an elongated nozzle, an elongated inner nozzle, the two nozzles being spaced apart to provide an annular chamber, a fitting in the rear of the nozzle having a passage therein communicating with the annular chamber, feeding means connected with the said passage, said feeding means including a vaporizing coil, said fitting having a passage for steam, a feeding means for conducting steam to the passage, said feeding means including a coil adjacent to the vaporizing coil, the major portion of the inner nozzle being exposed to the heat of the fuel in the chamber, each nozzle having an orifice, the orifices being substantially in line, a stem passing through the fixture of the inner nozzle and having a pin on its forward end adapted to be projected outward through the alined orifices, and means on the outer end of the stem for manipulating it.

1,384,944. AUTOMATIC SWIVEL TRAILER-COUPLING. JOHN R. FLOOD, Everett, Wash. Filed Feb. 16, 1920. Serial No. 359,117. 5 Claims. (Cl. 213—67.)

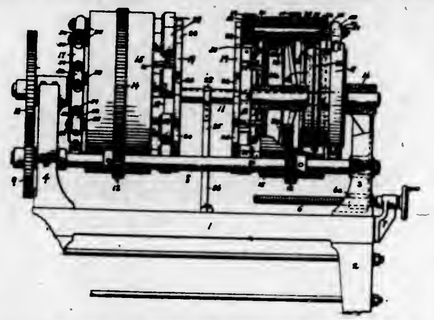


1. A trailer coupling for tractor vehicles comprising a funnel shaped coupling member pivoted to swing horizontally and provided at its pivot axis with a coupling pin, lines attached to said swinging member and a controlling drum located distant therefrom to which said lines are connected.

1,384,945. MACHINE FOR REDUCING THE ENDS OF CONTAINER-BODIES. BEN K. FORD, Oak Park, Ill., assignor to Fibre Can Corporation, Chicago, Ill., a Corporation of Illinois. Filed Nov. 1, 1920. Serial No. 421,136. 9 Claims. (Cl. 93—55.)

9. In a machine for reducing the diameters of the ends of container bodies, the combination of a holder for the bodies, a cup-shaped head movable relative toward and from the holder, means to rotate the head relative to the

body, means to cause the body to enter the head, the open end of the head being of two internal diameters, a roller



within the head, and means to press the roller against the container body within the head.

1,384,946. COMPOSITE MOTOR-FUEL. JOHN PRESTON FOSTER, Paia, Hawaii. Filed Nov. 29, 1920. Serial No. 426,987. 4 Claims. (Cl. 44—9.)

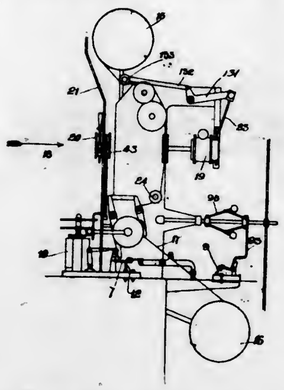
1. A motor fuel comprising an admixture of alcohol, ether and anilin.

2. A motor fuel comprising an admixture of ethyl alcohol, ethyl ether and anilin.

3. A motor fuel comprising an admixture of alcohol, ether, kerosene and anilin.

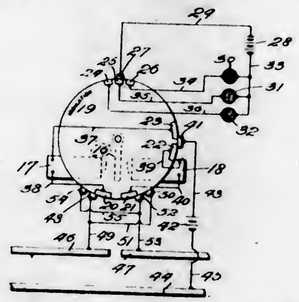
4. A motor fuel comprising an admixture of the following compounds in substantially the proportions, by volume, indicated: alcohol 63%, ether 34%, kerosene 2% and anilin 1%.

1,384,947. AUTOMATIC SAFETY CONTROL FOR CINEMATOGRAPH AND LIKE MACHINES. ROY MARCUS GEYER, Picture Palace, Mussoorie, India. Filed May 28, 1919. Serial No. 300,460. 12 Claims. (Cl. 88—17.)



1. A cinematograph projecting machine comprising a safety shutter, locking means normally keeping said shutter closed, a governor associated with the driving means of the machine, an electrically operated device for releasing said locking means, a switch operated by said governor when the machine reaches a safe speed, said switch being in the circuit of said electrically operated device, an operating member for said shutter, a switch associated with said member, said switch being located in a circuit the closing of which starts the driving means, said switch being closed by the initial movement of the operating member, further movement of the operating member being prevented by said locking means which prevents the shutter and the operating member from being moved until said locking means have been released by the electrically operated device.

1,384,948. RELAY. GEORGE R. GUILD, U. S. Army, assignor of one-half to C. T. Payton, St. Louis, Mo. Filed Sept. 29, 1919. Serial No. 327,067. 5 Claims. (Cl. 246—256.)



1. The combination with a railway track having a continuous rail and a broken or open rail, of a relay including a pair of solenoids, each of which is connected in series with one of the sections of the broken or open rail and with the continuous rail, an armature pivotally mounted between said solenoids and adapted to be attracted thereby when they are energized, and rotatable means adjacent to the armature for cutting one of said solenoids out of circuit when the other solenoid has been energized to attract the armature.

2. The combination with a railway track having a continuous rail and a broken or open rail, of a relay including a pair of solenoids, each of which is connected in series with one of the sections of the broken or open rail and with the continuous rail, an armature pivotally mounted between said solenoids and adapted to be attracted thereby when they are energized, means for cutting one of said solenoids out of circuit when the other solenoid has been energized to attract the armature, a plurality of signal lamp circuits, a member positioned above the armature and movable therewith, and means on said member for closing one of said lamp circuits depending on the position of said member.

3. The combination with a section of railway track having a continuous rail and an open or broken rail, of a solenoid in circuit with said continuous rail and one of the sections of the broken rail, a second solenoid in circuit with the continuous rail and the other section of the broken rail, an armature pivotally mounted between said solenoids and adapted to be actuated upon the closing of either one of the circuits in which the solenoids are located, a plurality of signal lamp circuits, and means adjacent to the armature and controlled thereby for closing one of said lamp circuits upon the closing of the circuits in which the solenoids are located.

4. The combination with a section of railway track having a continuous rail and an open or broken rail, of a solenoid in circuit with said continuous rail and one of the sections of the broken rail, a second solenoid in circuit with the continuous rail and the other section of the broken rail, an armature pivotally mounted between said solenoids and adapted to be actuated upon the closing of either one of the circuits in which the solenoids are located, a disk provided with contacts adjacent to and movable with said armature, and a plurality of lamp circuits provided with a contact which is adapted to be engaged by the contacts on the member carried by the armature.

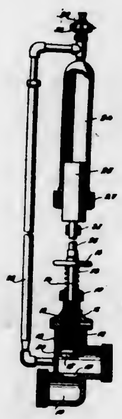
5. The combination with a section of railway track having a continuous rail and an open or broken rail, of a pair of solenoids, each of which is in circuit with the continuous rail and one of the sections of the open or broken rail, a relatively stationary contact member in said circuits, a pivotally mounted armature adapted to be attracted by said solenoids, a disk adjacent to said armature, contact members carried by said member and adapted to engage the relatively stationary contact member to close the circuits in which it is located, a plurality of signal lamp circuits, and means for closing one of said lamp circuits when either circuit between the continuous rail and the sections of the broken rail is closed.

1,384,949. PERPETUAL AUTOMOBILE LICENSE-PLATE. RUDD HARDESTY, Denver, Colo. Filed Oct. 10, 1918. Serial No. 257,549. 2 Claims. (Cl. 40—63.)



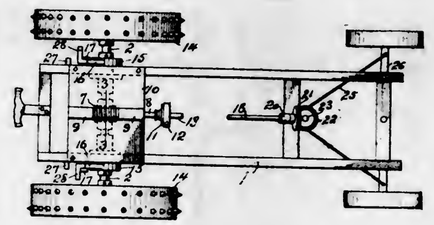
2. A permanent license plate in combination with a year plate and interchangeable means to coöperate with said year plate to indicate different classifications of the object licensed, said interchangeable means being removably held in fixed relation to said year plate and holding said permanent and year plates in fixed position.

1,384,950. AUTOMATIC VALVE. EDWARD W. HARPER, Savannah, Ga., assignor of one-third to Clarence H. Kelly, Savannah, Ga. Filed Sept. 8, 1920. Serial No. 408,845. 2 Claims. (Cl. 137—35.)



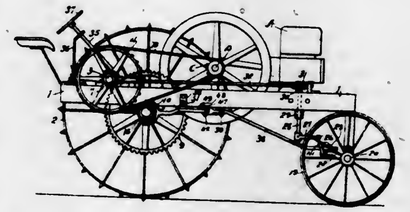
1. An anti-freezing device comprising a water controlling valve, a casing in which water is adapted to freeze, said valve having a sliding sleeve, the stem of the valve being threadedly engaged through the sleeve for manual opening and closing, a spring for holding the valve normally open and the sleeve in elevated position, and means in the said casing and connected with the valve stem for automatically moving the valve into closed position upon expansion in the casing due to freezing.

1,384,951. TRACTOR. HILLIS A. HARRAH, Pomona, Kans., assignor of one-half to Lizzie T. Leimbach, Rosedale, Kans. Filed Feb. 23, 1918. Serial No. 218,612. 8 Claims. (Cl. 180—17.)



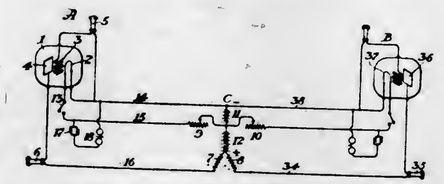
1. In a tractor having two rotary driving members, differential driving mechanism connecting said members, and two traction wheels respectively driven by said members, the combination with one of said driving members, of automatically actuated means for holding the last named member from turning backwardly, but which in the operative position permits it to turn forwardly.

1,384,952. TRACTOR. HILLIS A. HARRAH, Kansas City, Mo., assignor of one-half to Lizzie T. Leimbach, Rosedale, Kans. Filed Feb. 13, 1919. Serial No. 276,701. 1 Claim. (Cl. 180—18.)



In a tractor, a rotary axle, two traction wheels independently rotatable thereon, two clutches for respectively locking said wheels to said axle, two springs for respectively forcing said clutches to the locking position, a carrying steering wheel, steering means for turning said wheel to the right and left, a lever oscillatable by said steering means, two levers for respectively releasing said clutches, and two bars pivoted to said lever and respectively slidably and pivotally connected to said two levers so as to swing the same one independently of the other.

1,384,953. VACUUM ELECTRIC APPARATUS. PETER COOPER HEWITT, Ringwood Manor, N. J. Filed June 27, 1916. Serial No. 106,122. 10 Claims. (Cl. 179—70.)



9. In a system of distribution, the combination with a plurality of electric devices, each device having a plurality of terminals, of a common source of current connected to like terminals in each of said devices, a trans-

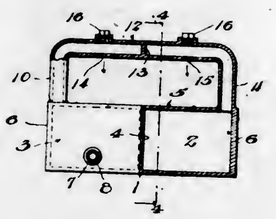
former in the current path of said devices, and an electric wave generator connected to a terminal in one of said devices and affecting the path between the terminals connected to the common source of current.

1,384,954. JEWELER'S TORCH. SAM W. HOKE, Palisade, N. J. Filed Feb. 20, 1920. Serial No. 360,045. 1 Claim. (Cl. 158—27.4.)



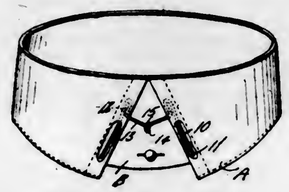
In a jeweler's torch of the character designated, in combination, a bifistulous ejector section, a needle valve controlling the admission of fuel gas thereto, a needle valve controlling the admission of oxygen thereto, the stem of the fuel gas control needle valve being formed with a screw thread of steeper pitch than that on the stem of the oxygen control needle valve, both valve stems being formed with radially protuberant finger rests, a constrictive nozzle connected with said ejector section and formed with a convergently contracted discharge port, and an oxygen jet in alinement with said convergently contracted discharge port and communicating with said oxygen controlling valve, for the purpose described.

1,384,955. LIQUID AND GASEOUS FUEL BURNER. FRED HOWLAND, Nogales, Ariz. Filed Dec. 30, 1919. Serial No. 348,281. 3 Claims. (Cl. 158—66.)



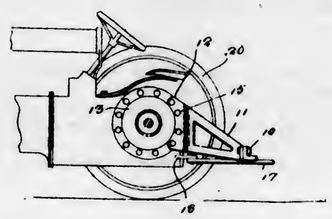
2. A single piece, cast fuel burner comprising a retort fashioned with a transverse interior partition forming separated chambers and upright, integral gas pipes rising from said retort and communicating with the chambers, an integral horizontal pipe section parallel with the retort and joining said gas pipes, an integral transverse partition in the horizontal section, there being nozzle openings in said horizontal section at the sides of the partition, and fuel supply pipes to said chambers.

1,384,956. COLLAR FASTENER AND SUPPORTER. GEORGE J. HUDSON, Dallas, Tex. Filed Mar. 29, 1921. Serial No. 456,553. 4 Claims. (Cl. 24—220.)



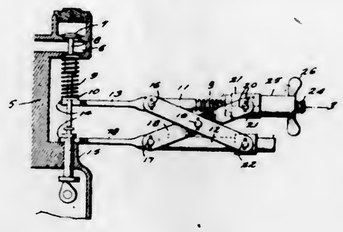
1. In a collar supporter, a pair of members each comprising a staff with a blunt point and having a clamping loop at its upper end, a laterally extending arm carried by each loop, and means for fastening the arms together.

1,384,957. SAFETY DEVICE FOR TRACTORS. ROY D. JEFFRIES, Granada, Minn. Filed Jan. 10, 1920. Serial No. 350,591. 2 Claims. (Cl. 213—67.)



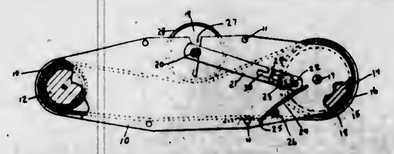
1. A safety attachment for tractors having a transverse check bar or beam, forwardly convergent braces provided at their front ends with parallel wings having openings for engagement by the cap screws of a gear casing and a hitch connected with the center of said check bar or beam.

1,384,958. TOOL FOR COMPRESSING VALVE-SPRINGS. HARLAN S. JILLSON, Turners Falls, Mass. Filed May 22, 1919, Serial No. 298,936. Renewed Dec. 15, 1920. Serial No. 430,997. 2 Claims. (Cl. 29—86.3.)



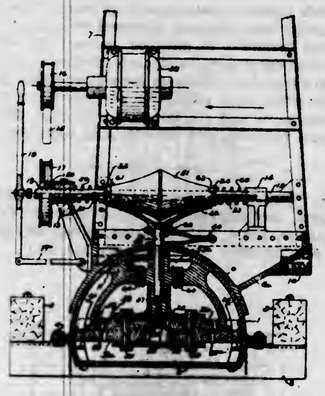
1. A tool of the character described, comprising a pair of rods, one rod having a screw-threaded portion, a rotatable operating sleeve having screw-threaded engagement with the screw-threaded portion and provided with an annular recess, a collar rotatable within the recess, a link pivotally connected with one rod and with the collar, a second link pivotally connected with the rods and crossing the first-named link, and means to pivotally connect the links.

1,384,959. WOOD-GRAINER. EDWARD JOLLIFFE, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,404. 9 Claims. (Cl. 41—5.5.)



1. A graining device comprising a frame, an endless belt traveling on rollers mounted in said frame, lever arms pivoted on said frame, an idler pivoted on said arms, and resilient means mounted on said frame and pressing against the ends of said arms to keep the belt taut by means of said idler.

1,384,960. DERRICK. JOHN W. KITTREDGE, Akron, Ohio. Filed May 15, 1918. Serial No. 234,597. 11 Claims. (Cl. 212—68.)



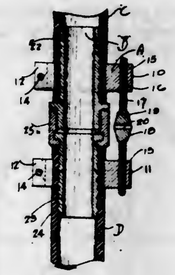
1. A machine comprising a base member, an upper member mounted thereon, a boom, connecting means from the upper member to the boom adapted to support the boom, a positive drive connection between the two members adapted to turn the upper member on the base member, a source of power, a power transmission from the said source of power to the said positive drive connection, a friction drive in the said power transmission, a variable speed mechanism in the said friction drive and a reversing mechanism in the said friction drive.

1,384,961. LAMP-SECURING MEANS. HARRY KLEIN, Freeport, N. Y. Filed Nov. 3, 1919. Serial No. 335,313. 12 Claims. (Cl. 176—31.)



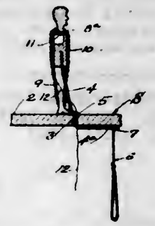
1. In a device of the class described, a socket, a lamp having the neck thereof arranged eccentrically to the axis of the lamp to provide a space at one side of said neck and between the latter and the socket, and a locking device arranged in said space.

1,384,962. CLAMP UNIT FOR HOSE CONNECTIONS AND PIPE CONNECTIONS. BEAT KUHNE, Lewistown, Mont. Filed Dec. 22, 1919. Serial No. 346,312. 1 Claim. (Cl. 285—129.)



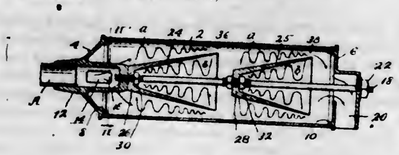
In a hose coupling, a pair of collars having a split formed therein, the terminals of the collars having outwardly projecting ears, means adjustably connecting the ears of each collar together, outwardly extending lugs formed on each of the collars diametrically opposite to the ears, the lugs having alined bores formed therein, and adjustable means for engaging the bores for connecting the collars together.

1,384,963. AMUSEMENT DEVICE. CHARLES P. LA BATT, Santa Monica, Calif. Filed Mar. 16, 1920. Serial No. 366,357. 3 Claims. (Cl. 46—40.)



1. In an amusement device the combination with a table provided in its top with a slot, of a manikin adapted to be positioned on said table top, said manikin being provided with movable parts, a substantially rigid member depending from said manikin and adapted to extend through the slot so that said manikin can be moved over the table along said slot from a point beneath the table top, projections on said manipulating member whereby the same and the manikin may be maintained in a vertical position, and flexible connections extending from the movable parts of the manikin downwardly through the slot in the table.

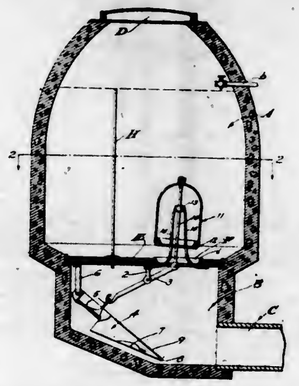
1,384,964. SOUND-MODIFIER. HERBERT LEGGETT, Kansas City, Mo. Filed Apr. 13, 1920. Serial No. 373,654. 5 Claims. (Cl. 137—160.)



1. In a device of the character described, a shell, heads removably secured to the ends of said shell and provided respectively with inlet and outlet ports for the passage of exhaust gases, and a conical sound modifier arranged with-

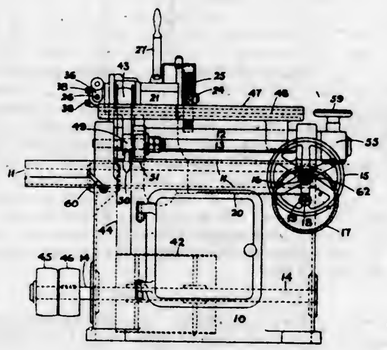
in the shell and supported at its reduced end only leaving its enlarged end free to vibrate from impact of the exhaust gases passing through the shell.

1,384,965. APPARATUS FOR DISCHARGING LIQUID. JOHN LUCKENBACH, Los Angeles, Calif. Filed Dec. 6, 1920. Serial No. 428,697. 6 Claims. (Cl. 182—4.)



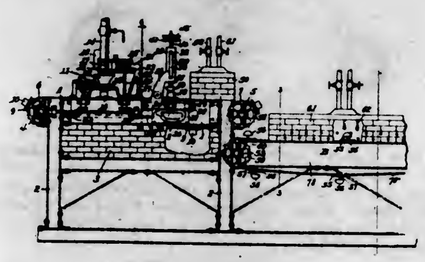
1. A liquid discharge apparatus comprising a liquid receptacle having a discharge port, a valve for said port, a compound lever entirely positioned below the discharge port including an actuating bucket adapted to open said valve when the relative weight of water within said bucket overbalances the relative weight of said valve.

1,384,966. GRINDING-MACHINE. THOMAS LUMSDEN, Gateshead, England. Filed Feb. 25, 1920. Serial No. 361,220. 5 Claims. (Cl. 51—100.)



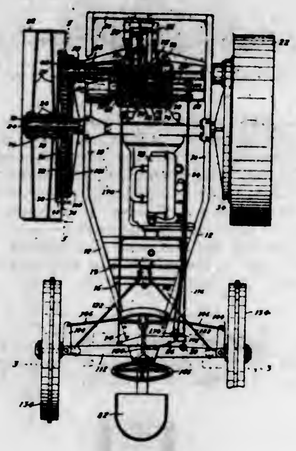
1. A grinding machine comprising a bed, parallel guide rods carried thereby, a swinging arm pivotally mounted on one of said guide rods, a grinding wheel and a pointer carried by said swinging arm, means for rotating said grinding wheel, means for laterally adjusting said swinging arm, a work table carrying both the blank to be ground and a former, said work table being mounted on another of said guide rods, resilient means normally keeping the grinding wheel away from the blank to be ground, and means for manually swinging the grinding wheel into contact with the blank and holding it there during the grinding operation against the resistance of said resilient means.

1,384,967. APPARATUS FOR THE MANUFACTURE OF GLASSWARE. WILLIAM H. MCSWAIN, Moundsville, W. Va. Filed Nov. 29, 1919. Serial No. 341,506. 8 Claims. (Cl. 49—1.)



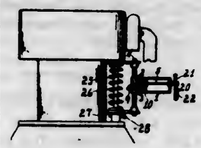
7. An apparatus for the manufacture of pressed articles of glassware, comprising a platform, an endless carrier arranged for continuous travel over said platform, a plurality of molds borne by said carrier at regular intervals, a press disposed over the path of travel of said molds, said press being arranged to advance successively with said molds throughout a definite distance, means actuated during forward travel of said press for reciprocating the plunger of the latter with respect to an underlying mold for shaping the ware, and a glazing oven through which said molds travel following the ware-shaping operation.

1,384,968. TRACTOR. LAURITZ F. NIELSEN, Minneapolis, Minn., assignor to The Allied Tractors Company, Minneapolis, Minn., a Corporation. Filed May 26, 1919. Serial No. 299,692. 5 Claims. (Cl. 74—29.)



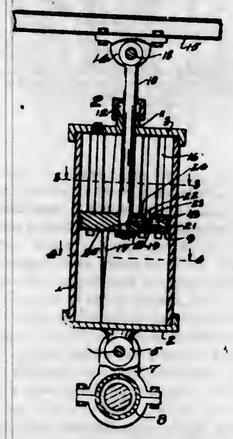
1. In a tractor the combination of a stationary shaft, driving wheels rotatably mounted on said shaft, cup shaped members mounted for yielding movement on the hubs of said driving wheels, pairs of lugs on the outside of said cup-shaped members, cushioning means between said pairs of lugs, pairs of rigid members attached at their outer ends to the rims of said driving wheels and yieldingly connected at their inner ends through said cushioning means with said cup shaped members, and means for driving said cup shaped members.

1,384,969. VALVE-LIFTER. TERUYOSHI OTAUKA, Oakland, Calif. Filed Dec. 1, 1919. Serial No. 341,744. 5 Claims. (Cl. 29—86.3.)



1. A valve lifter including a frame, a shaft journaled in said frame, a right thread and a left thread on said shaft, two pairs of jaws, one jaw of each pair engaging a thread on said shaft, the other jaws being each pivoted to one of said thread engaging jaws, and means for rotating said screw.

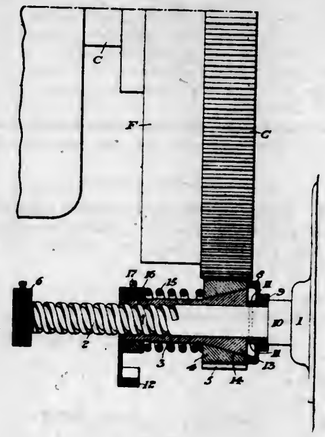
1,384,970. SHOCK-ABSORBER. CHARLES RUDY, Los Angeles, Calif. Filed Mar. 22, 1920. Serial No. 367,801. 4 Claims. (Cl. 188—88.)



1. A shock absorber including a cylinder, a piston mounted to reciprocate in said cylinder, means for connecting said cylinder and said piston to suitable points of the automobile; a valve in said piston for opening and permitting the cushioning medium to pass through the piston when the piston moves in one direction; means for permitting at first a small amount of the cushioning medium to pass the piston when it moves to a predetermined point in the opposite direction; and means for permitting a greater amount of said cushioning medium to pass the piston when the piston moves in said opposite direction beyond said predetermined point.

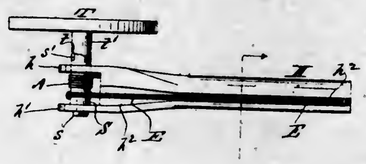
1,384,971. STARTER FOR ENGINES. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Dec. 30, 1919. Serial No. 348,356. 4 Claims. (Cl. 74—7.)

1. In an engine starter of the type including an electric starting motor, a shaft driven thereby, a screw element rotated by said shaft, an endwise shiftable screw element and a pinion associated therewith, adapted to be shifted endwise to move the pinion into and out of engagement with a gear for starting the engine according as said first named screw element rotates faster or slower than said pinion, and, in combination with said parts, and mounted on said driven shaft, a friction element connected for rotary drive and endwise shift by said shiftable screw-threaded element, a friction element on said pinion engaged by the latter, a thrust spring for normally maintaining said friction elements in frictional engagement sufficient for driving the pinion at speed required for starting the engine, and a stop for preventing further endwise shift of the pinion after it comes into full engagement



with the gear wheel while permitting further endwise shift of said endwise shiftable screw element and the friction element carried thereby, whereby the latter may screw endwise to permit slip of said pinion after its engagement with said stop.

1,384,972. DEVICE FOR SPINNING TOPS, &c. AUGUST E. SANDSTROM, New York, N. Y. Filed May 13, 1920. Serial No. 380,968. 1 Claim. (Cl. 46—32.)

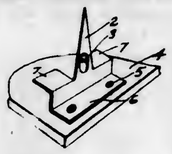


The combination of a rotatable top having an under stem formed with coupling cam shoulders and a spinning peg at its lower extremity, and a spinning device comprising a handle having a bifurcated end and formed with a longitudinal side groove, a rotatable spindle mounted on the bifurcated end of said handle and formed at its upper extremity with cam coupling shoulders for temporary engagement with those on the top stem, and also formed with an axial socket for the reception of the spinning peg on the top stem, a retractile elastic resilient ligament attached at one extremity to said spindle and to the handle at its other extremity, and positioned mainly in the aforesaid longitudinal groove in the side of the handle, and a flexible actuating ligament attached to said spindle and partially wound therearound and by means of which the aforesaid elastic resilient ligament may be stretched and wound around the said rotatable spindle, as and for the purpose set forth.

1,384,973. CARPET-RUG NEEDLE. ALTA M. SCHMUCK, Pasadena, Calif. Filed Dec. 23, 1919. Serial No. 346,972. 2 Claims. (Cl. 139—5.)

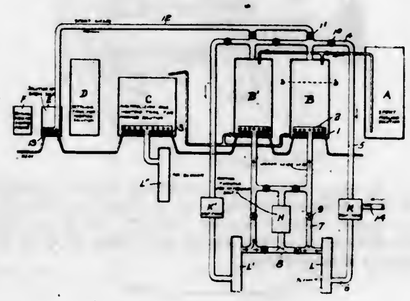
1. A strip tying device comprising a plate forming a support and having a tapering needle portion medially of

one edge thereof, said needle portion having an aperture therethrough, and the portions of said edge at each side of



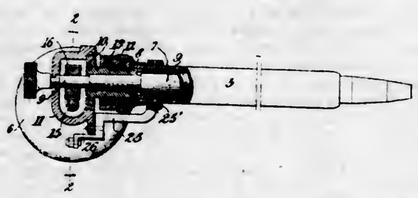
said needle being angularly bent relative to said needle and said plate in alinement with the lower edge of said aperture.

1,384,974. PROCESS OF RECLAIMING SPENT PICKLING SOLUTIONS. JOSEPH A. SHAW, Pittsburgh, Pa. Filed May 19, 1920. Serial No. 382,579. 7 Claims. (Cl. 23—13.)



1. The method herein described of performing upon a spent pickling solution containing sulfate of iron a reclaiming operation, which consists in intimately mingling with the spent solution a gaseous body containing a higher oxid of nitrogen, and in subsequently recovering from the gaseous body spent in the performance of the preceding step its nitrogen ingredient by intimately mingling it with a salt capable of reacting with and retaining oxids of nitrogen.

1,384,975. DENTAL-ENGINE HAND-TOOL. WILLIAM GENTRY SHELTON, New York, N. Y. Filed Oct. 6, 1917. Serial No. 195,028. 6 Claims. (Cl. 32—15.)

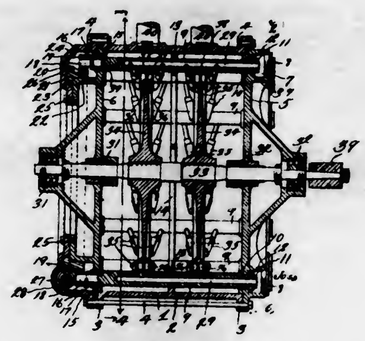


1. In a device of the character described, the combination of a dental hand-piece, adapted to carry a tool, a motor, said hand-piece and motor being formed as a portable unit, and means controlling the operation of said motor comprising a finger-actuated sleeve rotatable around said dental hand-piece.

3. In a device of the character described, the combination of a dental hand-piece, adapted to carry a tool, a motor, said hand-piece and motor being formed as a portable unit, and means controlling the operation of said motor comprising a finger-actuated sleeve rotatable around said dental hand-piece, said motor having its center of gravity below the axis of said hand-piece.

6. In a device of the character specified the combination with a tool spindle and a finger grip surrounding the same, a motor casing dependent from the rear end of the spindle and having its center of gravity well below the axis of said spindle, a switch for controlling the motor, and an actuator for such switch operatively connected with the finger gripping device.

1,384,976. REVERSIBLE TURBINE-ENGINE. JOSEPH SHOWALTERBAUGH, Gary, Ind. Filed Nov. 27, 1920. Serial No. 426,740. 9 Claims. (Cl. 253—73.)



1. A turbine engine comprising a casing having rotatably mounted therein a turbine wheel having pockets in its side, a rockable shaft rockably mounted in the casing adjacent the periphery of the turbine wheel and provided with a steam supply chamber, a steam projecting nozzle carried by said rockable shaft and disposed substantially tangential to the pockets and means for rocking the shaft for reversing the position of the nozzle when it is desired to reverse the direction of rotation of the turbine wheel.

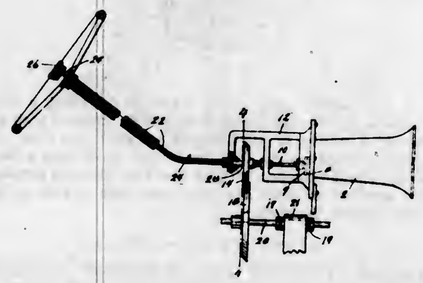
2. The combination with a turbine engine comprising a casing having rotatably mounted therein a turbine with pockets in its sides adjacent its periphery, of a rockable chambered shaft rockable in the casing and adjacent the periphery of the wheel, spaced steam projecting nozzles carried by the shaft and disposed on each side of the wheel and substantially tangential in relation to the pockets and means for rocking the shaft for reversing the tangential position of the nozzles.

3. The combination with a turbine engine comprising a casing having rotatably mounted therein a turbine wheel with pockets in its sides adjacent its periphery, of a rockable shaft having a steam supplying chamber, said shaft being disposed adjacent the periphery of the turbine wheel and provided with spaced nozzles disposed to each side of the wheel and tangentially disposed in relation to the wheel pockets, and means for reversing the tangential position of the nozzles by rocking the shaft when it is desired to reverse the direction of rotation of the turbine wheel.

4. The combination with a turbine engine comprising a casing having rotatably mounted therein a plurality of turbine wheels with pockets in their sides adjacent their peripheries, of a plurality of rockable shafts rockably mounted in the casing and having steam supplying chambers therein, one end of said chambers being in communication with a steam manifold, spaced nozzles carried by the rockable shafts and disposed on each side of the turbine wheels and substantially tangentially disposed in relation to the pockets, said nozzles being in communication with the chambers of the rockable shafts, and means for simultaneously reversing the tangential positions of the nozzles for reversing the direction of rotation of the turbine wheels.

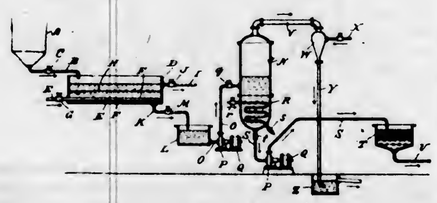
5. The combination with a turbine engine comprising a casing having rotatably mounted therein a plurality of turbine wheels with pockets in their sides adjacent their peripheries, of a plurality of rotatable shafts rockably mounted in the casing adjacent the peripheries of the turbine wheels and provided with steam supply chambers in communication with a steam manifold, nozzles carried by said rockable shafts and disposed to project steam tangentially into the pockets of the wheels, gears carried by one end of said shafts, said gears meshing with a gear ring and means for rotating said gear ring for simultaneously reversing the positions of the nozzles.

1,384,977. DIAPHRAGM-HORN-OPERATING MEANS. ANTHONY B. SILVIA, Haverhill, Mass. Filed Feb. 28, 1921. Serial No. 448,540. 9 Claims. (Cl. 116—59.)



1. In combination with the diaphragm of a signaling horn, a rotatably mounted striker-shaft axially movable into and out of operative relation with said diaphragm, means for normally holding said shaft in an inoperative position, a friction wheel on said shaft, a power driven shaft having a friction wheel thereon arranged to be engaged by the wheel of said striker shaft as the latter is moved to its operative position and manually operated means for moving said striker shaft toward the diaphragm, to cause operative engagement of said wheels and of said shaft with the diaphragm.

1,384,978. PROCESS FOR RECLAIMING SLUDGE ACID IN PETROLEUM-REFINING. WALTER H. SIMONSON, Brooklyn, N. Y., and OTTO MANTIUS, Englewood, N. J. Filed Nov. 19, 1920. Serial No. 425,162. 5 Claims. (Cl. 23—1.)



1. The process for reclaiming sludge acid in petroleum refining which consists in concentrating the weak acid by subjecting it to a temperature sufficiently high to vaporize the water but low enough to prevent the combustion of organic matter, and then drawing off the acid and filtering it.

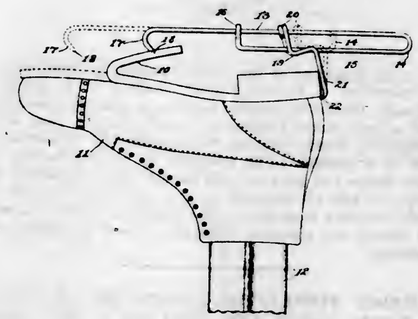
2. The process for reclaiming sludge acid in petroleum refining which consists in concentrating the weak acid by boiling the same at a temperature lower than could be done at atmospheric pressure, and then drawing off the acid.

3. The process for reclaiming sludge acid in petroleum refining which consists in concentrating the weak acid by heating the acid to a temperature approximately from 270 to 290° F. under less than atmospheric pressure thus causing the water to vaporize, and then drawing off the acid.

4. The process for reclaiming sludge acid which consists in concentrating the acid, by boiling in a partial vacuum, and then withdrawing the product.

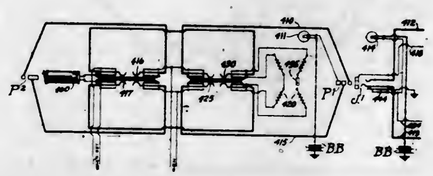
5. The process for reclaiming sludge acid which consists in concentrating the acid by causing the same to boil in a partial vacuum through the application of indirect heat and then withdrawing the product.

1,384,979. HOLDER FOR SOLES. JAMES A. STRANGE, Ellensburg, Wash. Filed July 6, 1920. Serial No. 394,330. 2 Claims. (Cl. 12—103.)



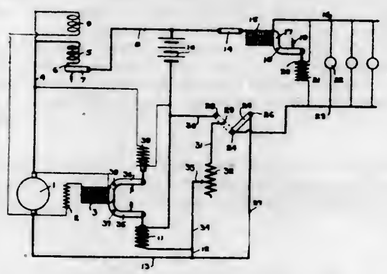
1. A holder for soles of foot wearing apparel comprising a longitudinal rod, a sole engaging hook disposed at one end of said longitudinal rod, the opposite end of said longitudinal rod being bent downwardly upon itself to form a parallel rod, said parallel rod terminating in a transverse loop rigidly encircling said longitudinal rod, and a heel engaging member slidably mounted on said longitudinal rod.

1,384,980. TELEPHONE-EXCHANGE SYSTEM. ARTHUR C. STUART, Cleveland, Ohio, assignor, by mesne assignments, to James R. Garfield, trustee, Cleveland, Ohio. Filed Nov. 11, 1912. Serial No. 730,752. Renewed May 3, 1921. Serial No. 466,530. 39 Claims. (Cl. 179—27.)



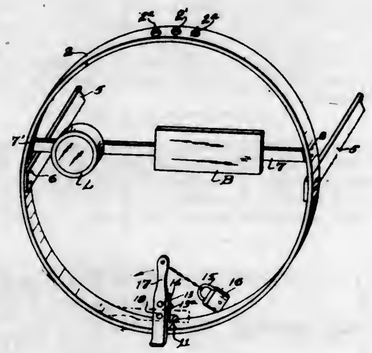
1. In a telephone exchange system, the combination of an operator's position, a signal at said position, wanted subscribers' lines, means for establishing a connection from said position to a wanted line comprising a selector and a connector switch, a single test relay associated with said connector switch, means for operating said relay in case the wanted line is busy, intermittent means associated with said connector switch, said intermittent means being connected immediately through the contacts of said relay to cause the intermittent operation of said signal.

1,384,981. ELECTRICAL SYSTEM. WILLIAM I. THOMSON, Newark, N. J., assignor to Safety Car Heating & Lighting Company, a Corporation of New Jersey. Filed Dec. 14, 1916. Serial No. 136,929. 7 Claims. (Cl. 171—313.)



1. In apparatus of the class described, in combination, a generator, a storage battery adapted to be charged thereby, regulating apparatus for said generator comprising a coil, lamps adapted to receive current from said generator, means adapted to alternatively connect said coil in a position to be traversed by current flowing to said lamps and that to said battery or in a position in which it will be traversed by the current to the battery only, and free from that to the lamps and means adapted to change the standard of action of said regulating apparatus.

1,384,982. TIRE-CARRIER-LOCKING DEVICE. HARRY WALKER, Anaheim, Calif. Filed Feb. 16, 1920. Serial No. 359,087. 1 Claim. (Cl. 224—29.)



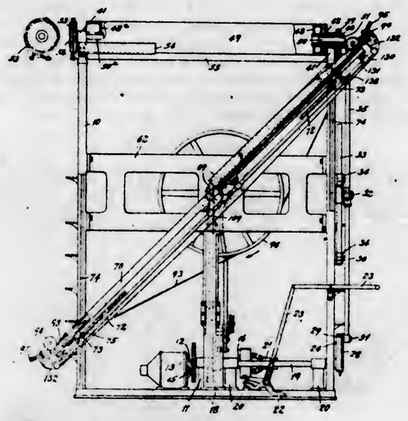
The herein described automobile tire carrier and lock comprising a ring, a strap transversely arranged upon the inner face of said ring and rigidly fastened thereto, the inner end of said strap terminating in an outwardly turned flange that overlies and extends beyond the inner edge of the ring, the inner end of said strap terminating in an inwardly projecting tongue, the outer face of which lies in the same plane with the outer edge of the ring, a locking lever fulcrumed upon said tongue and arranged on the outer face thereof, said tongue and lever being provided with perforations that are adapted to register when the lever is shifted into a position coincident with said tongue, the outer end of said lever being adapted to extend beyond the periphery of the ring when said lever is in alinement with said tongue, a stop projecting outwardly from the tongue to limit the swinging movement of the lever in one direction and means having a part adapted to pass through the perforations in the tongue and lever to lock said parts to each other.

1,384,983. SAFETY-CATCH. ASHBEL T. WALL, Providence, R. I. Filed Mar. 9, 1921. Serial No. 450,992. 3 Claims. (Cl. 24—157.)



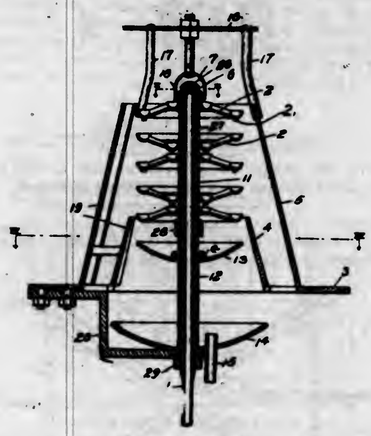
2. In a safety catch of the character described, a base, a shank, parallel forwardly directed ears integral with the shank, a pintle in the ears, a straight lever on the pintle, a head on the free end of the lever, and a beak on the shank provided with an inwardly directed terminal slot adapted to guide the lever and with a hole at the inner end of the slot.

1,384,984. CUTTING AND STRIPPING MACHINE. JULIUS WRONSE, New York, N. Y., assignor to Henry Spadone and Walter W. Spadone, New York, N. Y., a Copartnership doing business as Spadone Machine Co. Filed May 21, 1920. Serial No. 383,030. 12 Claims. (Cl. 164—73.)



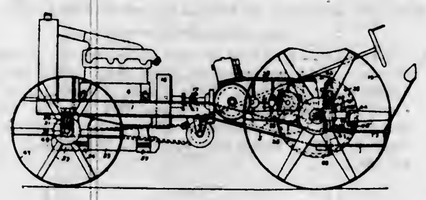
1. In an apparatus of the kind described an independent auxiliary frame, means thereon for rotatably supporting a roll of tacky fabric with sheeting between its convolutions, rotatable supports for carrying a receiving roll upon which said sheeting is wound, a pair of feed rolls journaled on said frame in driving connection with each other, means whereby said feed rolls are operatively connected with said receiving roll, driven mechanism operatively connected with said feed rolls whereby the latter and said receiving roll are actuated to draw the fabric from said roll and to coincidentally strip the sheeting therefrom, driving mechanism and means including a friction heel and a friction disk whereby said driving and driven mechanisms are operatively connected and whereby the speed of the latter may be varied.

1,384,985. LIQUID-FUEL BURNER. JAMES B. ANDERSON, Shaler township, Allegheny county, JAMES B. GARNER, Pittsburgh, and GEORGE A. SHANER, Butler, Pa. Filed Sept. 15, 1920. Serial No. 410,463. 12 Claims. (Cl. 158—91.)



6. In a liquid-fuel burner, means for causing a stream of oil to flow by gravity in divided branches to and fro across a stream of air ascending between the branches, the surface of the flowing stream being exposed to the air.

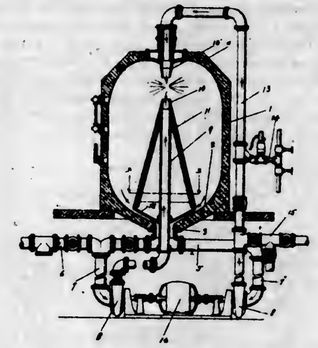
1,384,986. MOTOR-TRACTOR. JOSEPH BAMFORD and CYRIL JOSEPH BAMFORD, Uttoxeter, England. Filed Aug. 13, 1918. Serial No. 249,621. 4 Claims. (Cl. 180—41.)



1. In a tractor of the class described, the combination of a frame including side members having their front and rear ends in different horizontal planes, a transmission shaft journaled on said frame in a horizontal plane above the front ends of said side members, a pair of radial arms independently pivoted on said transmission shaft and adapted to extend below the axial center of said shaft, a stub axle carried by each of said arms, a wheel mounted for rotation on each of said axles, and driving means between said transmission shaft and said wheels.

1,384,987. PAPER-STOCK-TREATING MACHINE. MILTON C. J. BILLINGHAM, Kalamazoo, Mich. Filed Apr. 23, 1920. Serial No. 376,058. 11 Claims. (Cl. 92—20.)

1. In a stock treating machine, the combination of a vertically disposed cylindrical tank having an internally concave bottom with a central discharge opening therein and an internally curved top, pumps having their intakes connected to said tank discharge, a discharge pipe for one of said pumps provided with a nozzle and disposed vertically in said tank and centrally through said discharge opening thereof with its nozzle near the upper end of the tank, a discharge pipe for the other pump provided with a nozzle disposed vertically and centrally through the top of the tank, said nozzles being in alinement and spaced so that the streams therefrom impinge, and a conical deflector mounted on the first mentioned discharge



pipe and having its bottom spaced from the bottom of the tank to permit the flow of stock to said tank discharge opening.

1,384,988. FISHING-TOOL. FREDERICK M. BRAMBLEY, Brea, Calif. Filed Mar. 30, 1920. Serial No. 369,848. 3 Claims. (Cl. 294—102.)

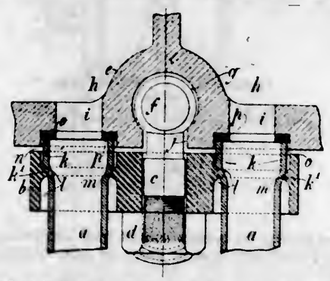


1. In a fishing tool for rods having annular shoulders formed thereon, a hollow tubing provided with an inwardly extending lip, said tubing arranged to be positioned over the rod with said lip below a shoulder of said rod; a slip within said tubing and adapted to move downwardly between said rod and said tubing for laterally moving said rod eccentrically to said tubing until its shoulder rests upon the lip of said tubing for retaining said rod within said tubing, the surface of said slip next to said rod conforming to the curvature of said rod when the latter is in retained eccentric position, the top surface of which slip is inclined downwardly toward that portion of the body of the slip that contacts with the inner surface of the tubing; and a compression spring bearing on said inclined top surface.

1,384,989. MEANS FOR ATTACHING TUBES TO HEADERS, CHAMBERS, AND THE LIKE. HERBERT PAINE BRAY, Pinner, England. Filed May 25, 1920. Serial No. 384,240. 2 Claims. (Cl. 285—29.)

2. In combination, a block having a central passageway, a fluid container having a slot in the wall but out of

communication with the fluid space, said slot being substantially circular in cross section, a second slot extending longitudinally with the first slot and opening thereinto but having a width less than the diameter of the first slot, a plurality of apertures in the wall of the container at each side of the slots, tubes having expanded ends received within the apertures, said block having perforations for receiving said tubes, a seat provided intermediate the ends of each perforation against which seat the rounded face of the expanded tube end may bear, said seat being circular and of less diameter than the perfora-



tion, and a bolt passed through the central passageway of the block with its head engaged in the first slot and its shank loosely fitting the second slot, said head being substantially barrel-shaped whereby the block may swing relative to the container about two axes at right angles to each other, the bolt holding the block to the container and the tube ends spacing the inner face of the block from the outer side of the container, so that the tubes can move relatively to both the block and container and independently of the block while the block can move relatively to the container independently of the tubes under the influences of expansion and contraction.

1,384,990. PLANT STIMULANTS AND FERTILIZERS. JAMES R. CAMPBELL, Scottdale, Pa. Filed May 22, 1915. Serial No. 29,887. 10 Claims. (Cl. 71—9.)

1. A plant stimulant and fertilizer containing precipitate derived from neutralized mine water, and a filler of calcareous material.

2. A plant stimulant and fertilizer consisting of from 20 to 50 per cent. precipitate derived from neutralized mine water, and 80 to 50 per cent. calcareous material.

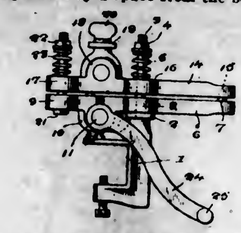
3. A plant stimulant and fertilizer consisting of 20 per cent. precipitate derived from neutralized mine water, and 80 per cent. calcite.

4. A fertilizer derived from acid mine water and consisting of at least 20 per cent. precipitate from the water, and a filler of calcareous material.

5. A plant stimulant and fertilizer composed of a precipitate derived from neutralized mine water and containing an iron salt, and a filler of calcareous material.

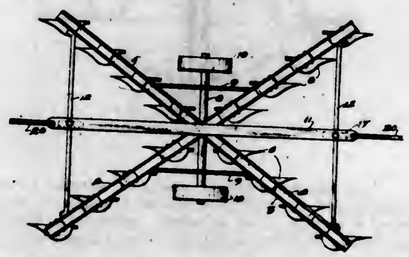
1,384,991. MEAT-TENDERING MACHINE. ALFONZO F. COMBS, Wilkesboro, N. C. Filed Mar. 9, 1921. Serial No. 450,908. 1 Claim. (Cl. 17—29.)

In a meat tendering machine, the combination of clamps having upwardly extending threaded pins, a clamp-connecting cross bar receiving said pins, bearing members on said cross bar and removably receiving said pins and having forward apertured portions and intermediate bearing portions, bearing members on the first-named bearing members and removably receiving said pins and also having forward apertured portions and intermediate bearing portions, nuts mounted on the upper portions of the pins, springs surrounding said pins between the nuts and the adjacent bearing members, bolts connecting the forward portions of the bearing members and equipped with nuts, springs on said bolts and between said nuts and the adjacent bearing members, an upper cross bar on and detachably connected to the bearing portions of the second-named bearing members, tendering rolls having shafts disposed in the bearing portions of the bearing members, said shafts being geared together, the inner ends of said rolls being separated by a space from the bearing members



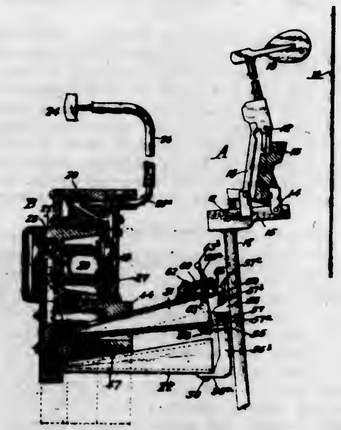
opposite the same, and a crank on one of the shafts through the medium of which the shaft is turned.

1,384,992. CANTALIVER-PLOW. MICHAEL J. CORRIGAN, Calipatria, Calif. Filed Oct. 11, 1920. Serial No. 416,266. 1 Claim. (Cl. 97—50.)



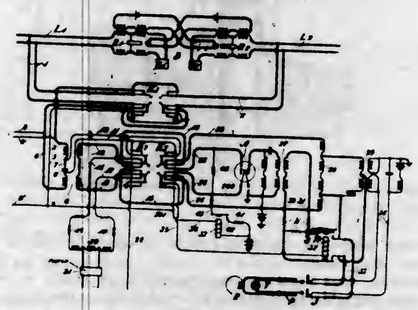
An earth working implement comprising a wheel support, a frame comprising cross members tiltably mounted upon said support at the intersection of said members and having the latter extending in opposite directions from the axis of said support, and earth working elements carried by said frame and arranged to engage the earth when the implement is moving in opposite directions.

1,384,993. PLAYER-PIANO. STANLEY L. FISHER, Chester, Conn., assignor to The Pratt Read Player Action Company, Deep River, Conn., a Corporation of Connecticut. Original application filed Apr. 24, 1918, Serial No. 230,417. Divided and this application filed Aug. 4, 1919. Serial No. 315,208. 28 Claims. (Cl. 84—68.)



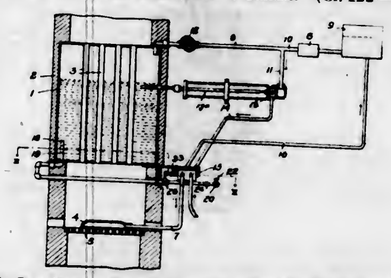
28. A striker arm, for attachment to the movable leaf of a striker pneumatic, comprising a portion for engagement with the pneumatic and an integral upwardly extending portion contacting directly with a part of a piano action unit.

1,384,994. TELEPHONE REPEATER EQUIPMENT. CHARLES S. DEMAREST, New York, ALVA B. CLARK, Brooklyn, N. Y., and GEORGE CRISSON, Hoboken, N. J., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Apr. 16, 1919. Serial No. 290,382. 7 Claims. (Cl. 179—170.)



3. A transmission circuit including lines interconnected by repeater apparatus, means to balance said lines, operator's equipment of low impedance, means to bridge said equipment across one of said lines, and an autotransformer associated with said bridge for increasing the impedance of said equipment sufficiently to prevent appreciable unbalance of said line.

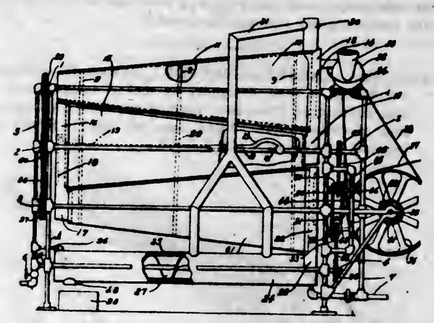
1,384,995. THERMOSTATIC CONTROL FOR STEAM-GENERATORS. CHRIS FRIES, Perth Amboy, N. J., and HENRY W. FISHER, Huguenot Park, N. Y. Filed Sept. 2, 1919. Serial No. 320,986. 3 Claims. (Cl. 122—448.)



1. In steam generating apparatus, the combination of a boiler, a water tank, a conduit leading from tank to boiler, a by-pass leading from said conduit back to the tank again, a valve in said by-pass, a fluid-fuel burner beneath said boiler, a supply pipe leading from said burner, a valve in said fluid supply pipe, a conduit leading from said boiler above said burner, means whereby in response to thermal expansion of said conduit, the valve in said water by-pass and the valve in said fluid-fuel supply-pipe are successively operated, and means for circulating water through the water system defined, substantially as described.

1,384,996. DRIER. PABLO GONZÁLEZ GARZA, San Antonio, Tex. Filed Apr. 30, 1920. Serial No. 377,837. 3 Claims. (Cl. 34—5.)

2. A drying apparatus of the class described including superposed oppositely arranged tapered drums, means for rotating the drums, a stationary delivering head at the large end of each drum for directing material into the small end of the next adjoining drum thereunder, a drain pipe in communication with a portion of the shaft of each of the drums, means revoluble with the shaft and drum for removing condensed moisture from the deliver-



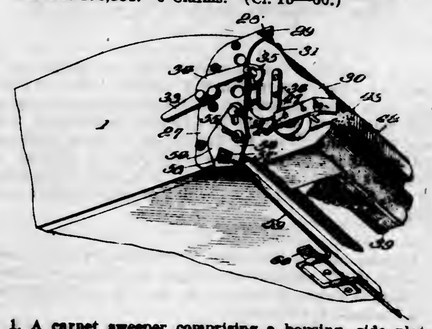
ing heads and directing it into the drain pipe, means for scattering saturated material broadcast within one of the drums, and a vapor outlet flue extending from said drum.

1,384,997. CARPET-SWEEPER. JAMES H. GRAHAM and EVERETT C. MUDICK, Torrington, Conn., assignors, by mesne assignments, to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed June 5, 1917. Serial No. 172,879. 5 Claims. (Cl. 15—60.)



1. A carpet sweeper comprising a housing having supporting means journaled therein, bars supported outside of and at the ends of said housing, a bail pivoted to said bars and projecting into said housing, a rotatable brush shaft passing through said housing ends and detachably carried by said bail outside of said housing, and means located within said housing for adjusting said bail to raise or lower said brush shaft.

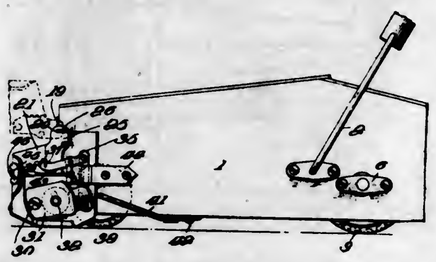
1,384,998. SUCTION CARPET-CLEANER. JAMES H. GRAHAM, Torrington, Conn., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed Aug. 16, 1917. Serial No. 186,551. 6 Claims. (Cl. 15—60.)



1. A carpet sweeper comprising a housing, side plates attached to said housing, a brush carrying nozzle pivoted

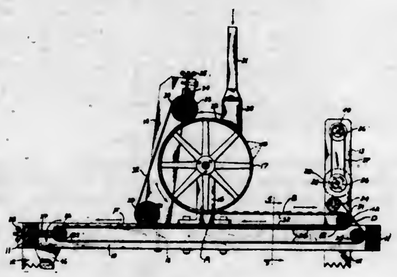
to one of said plates, a lever pivoted to said plates, a second hooked lever pivoted to said lever, a stud carried by said nozzle and engageable by said hooked lever to hold the nozzle tightly against the housing.

1,384,999. CARPET-SWEEPER. JAMES H. GRAHAM, Torrington, Conn., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn., a Corporation of Connecticut. Filed Aug. 16, 1917. Serial No. 186,552. 3 Claims. (Cl. 15—60.)



1. A carpet sweeper comprising a housing, suction means in the housing, a nozzle at the end of the housing and in communication with the suction means, a rotary adjustable brush in the nozzle, plates secured to the ends of the nozzle and having slots therein, pins carried by the housing and passing through the slots in the plates for pivotally supporting the same on the housing, means for tightly holding the nozzle against the end of the housing, and means carried by the housing for rotating the brush within the nozzle.

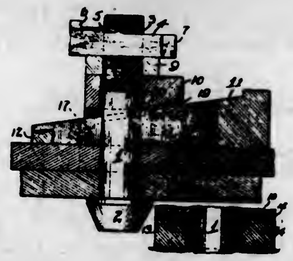
1,385,000. MACHINE FOR REVERSING SMALL ARTICLES. BRUCE N. GRIFFING, Shelton, Conn., assignor to The Griffin Button Company, Shelton, Conn., a Corporation of Connecticut. Filed June 30, 1920. Serial No. 393,017. 8 Claims. (Cl. 193—24.)



1. A machine of the character described comprising a conveyer wheel, a pair of article carrying conveyer belts, said belts being disposed in frictional engagement, one of said belts being disposed in frictional engagement with said wheel, and means for driving the conveyer belts and for causing the conveyer wheel to be rotated, whereby articles are transferred from one of said belts to the other of said belts reversing the position of each article on the belts.

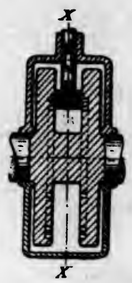
1,385,001. LOCKING-BOLT. WILLIAM HACKETT, Oakland, Calif., assignor of one-half to Stephen W. Band, Oakland, Calif. Filed Mar. 15, 1920. Serial No. 365,985. 3 Claims. (Cl. 85—8.)

1. A locking bolt provided with a shank having a head at one end with its opposite end made to coöperate with a locking element, said shank adapted to be passed through two or more plates to be clamped together with the said plates confined thereon by said locking element, a block having an opening, said shank adapted to be passed through said opening for confining the block on the shank,



and a slotted wedge having teeth on opposite sides of its slot, said wedge adapted to straddle the shank of the bolt between said block and said plates, with means on said block engaging the teeth of the wedge for maintaining the wedge in clamping relation with the plates.

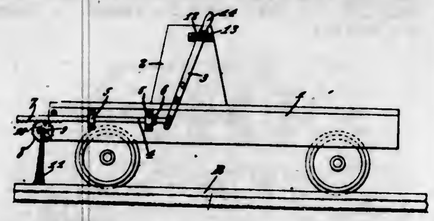
1,385,002. MECHANISM FOR CONVERTING ROTARY TO RECIPROCATING MOVEMENT. JOHN WALLACE HALL, Feltham, England. Filed Mar. 4, 1920. Serial No. 363,356. 5 Claims. (Cl. 74—1.)



1. Means for converting rotary motion into cycles of a plurality of reciprocating motions of equal amplitude and periodicity extending over any predetermined number of revolutions, comprising a pair of co-axial, revolubly mounted, parallel disks having their opposed faces formed with cam grooves, so that the grooves on the two faces are complementary to form a groove path once traversible during the predetermined number of revolutions, an incline at each extremity of each cam groove, a reciprocable member disposed between said disks, a shuttle member carried transversely by said reciprocable member, and formed with a tongue at each extremity adapted to be alternately projected into the cam grooves on one face by the said inclines on the other face, and means for simultaneously driving the disks.

1,385,003. TORPEDO-REMOVING ATTACHMENT FOR HAND-CARS AND THE LIKE. DANIEL ALBERT HEWITT, Thomasville, N. C. Filed Mar. 3, 1921. Serial No. 449,515. 1 Claim. (Cl. 15—73.)

The combination with a hand car or the like, of torpedo removing means including rail engaging brushes, a hand lever, and means operated by said lever for shifting the brushes into or out of contact with the rails thereunder,



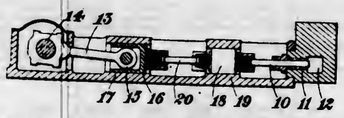
said means including a rack bar movable with the lever and a gear meshing with the rack bar and movable with the brushes.

1,385,004. WRITING-DESK. ALBERT LOVEL HOWE, Alloa, Scotland, assignor to William Angus & Company (Scotland) Limited, Menstrie, North Britain. Filed Nov. 1, 1920. Serial No. 420,942. 7 Claims. (Cl. 45—92.)



1. A writing desk comprising, in combination, a support, a back located above and in rear of said support, a writing bed mounted on the support so as to be capable of being pulled forward to increase the effective width thereof, side wings located at opposite ends of the support and adapted to be turned down to increase the effective width of the writing bed and a flexible curtain housed in the back and adapted to be pulled forward over the writing bed.

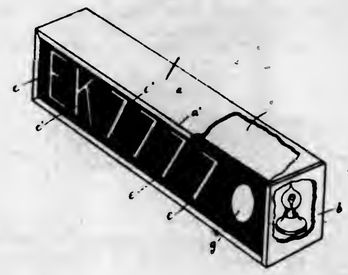
1,385,005. RECIPROCATING PUMP AND THE LIKE. KARL OTTO KELLER, Sunderland, England, assignor of one-half to Robert Pile Doxford, Sunderland, Durham, England. Filed Jan. 6, 1921. Serial No. 435,354. 2 Claims. (Cl. 74—14.)



1. In a machine of the character described, the combination of an oscillating and reciprocating driving member, a ram, a plurality of cross-heads between said driving member and said ram and connecting the same so as to permit relative adjusting movement between any connected pair of said elements in a direction transversely of the line of reciprocation of said ram, substantially as described.

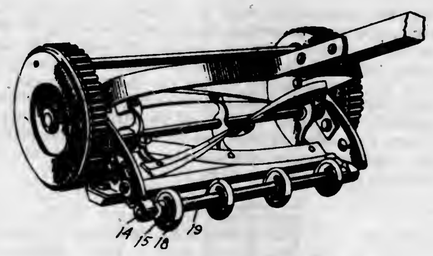
1,385,006. ILLUMINATING-SIGN FOR AUTOMOBILES. ERNEST KEMP, Clapham Common, England. Filed Sept. 10, 1919. Serial No. 322,925. 2 Claims. (Cl. 40—132.)

1. A rear lamp and license number indicator for automobiles comprising a box-like casing open at its front and rear longitudinal sides, grooves formed in the top and bottom longitudinal edges of the front side for the reception of a plurality of elements constituting the license number and danger signal, said elements consisting of a front plate of clear glass wholly closing the front side, a rear plate of translucent material having a gap formed therein in the neighborhood of one end, an intermediate plate of opaque material having an aperture at one end registering with the gap in the rear plate and having the license number formed therein in the manner of a stencil, a plate of colored glass covering the gap in the



rear plate, grooves at the top and bottom edges of the rear open side of the casing, a plate of clear glass slidable in said grooves wholly closing the rear open side of said casing, and a lamp located behind the plate of colored glass adapted to simultaneously illuminate the aperture in the plate of opaque material and the license number therein and to direct rays of light through the rear side of said casing substantially for the purposes set forth.

1,385,007. BERMUDA-GRASS CUTTER AND LAWN-AERATOR. ANDREW J. KERR, Los Angeles, Calif., assignor of fifty-one per cent. to ANNA M. PACHMAYR, Los Angeles, Calif. Filed Nov. 18, 1920. Serial No. 424,887. 6 Claims. (Cl. 56—249.)

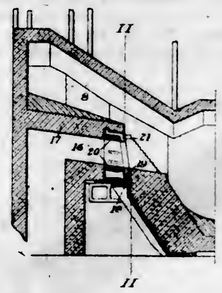


1. In a lawn-mower attachment, the combination with a shaft adapted to be substituted for the roller, of circular disk cutting elements mounted thereon, and spacing elements disposed between the cutting elements.

1,385,008. PORT-COOLER FOR REVERSING REGENERATIVE FURNACES. LUTHER L. KNOX, Bellevue, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Mar. 27, 1918. Serial No. 225,123. 3 Claims. (Cl. 122—6.5.)

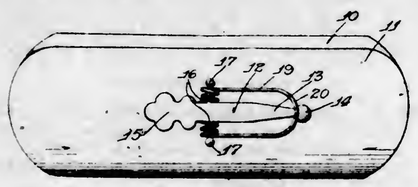
3. A port cooler for the gas ports of reversing regenerative furnaces, comprising a hollow sheet metal box-like structure having an arched port opening extending therethrough, a water inlet pipe extending longitudinally of the structure below the said opening and having discharge branches at opposite sides of said opening, the central portion of the structure above said opening having a closed top dome, and an outlet connection for hot water and steam extending within said dome, said end portions

constituting the major portion of the total length of the structure and being of a depth to extend at least as low



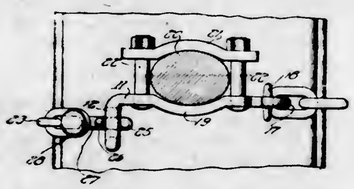
as the floor level of said port, whereby the said opening is completely inclosed at its sides, substantially as described.

1,385,009. CLASP. PAUL A. KOPP and JOHN P. KOPP, Tulsa, Okla. Filed June 30, 1919. Serial No. 307,592. 2 Claims. (Cl. 24—3.)



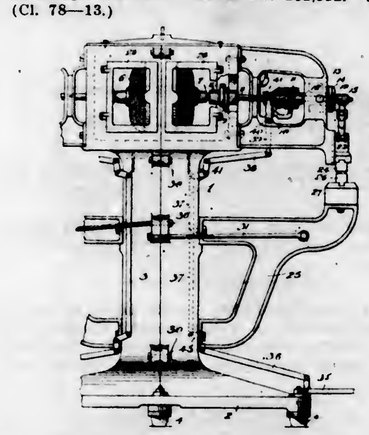
1. The combination with an article to be held, of a clasp strip pivoted thereto in spaced relation to it and having a clasping terminal portion disposed to lie normally against said article and a spring wire associated with the clasp strip for holding the clasping terminal in coöperative clasping relation to the article, the spring wire between the clasping terminal of the strip and the pivot of the strip being in close spaced relation to the article for clasping action thereagainst supplemental to the terminal of the clasping strip.

1,385,010. ANTISKID DEVICE. WILLIAM H. KRUG, Fond du Lac, Wis. Filed Aug. 6, 1919. Serial No. 315,597. 7 Claims. (Cl. 152—2.)



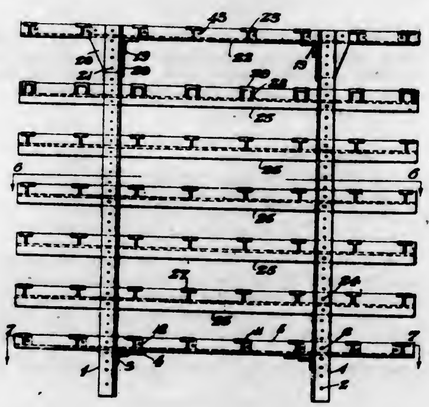
3. Means for securing an anti-skid chain to a vehicle wheel comprising a clamping bar having a hook at one end lying substantially in the plane of said bar, the other end of said bar terminating in a portion bent at substantially right angles to the adjacent portion and provided with means for securing one end of an anti-skid chain.

1,385,011. HAMMERING-MACHINE. JOSEPH LEDWINKA, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 12, 1917. Serial No. 161,552. 2 Claims. (Cl. 78—13.)



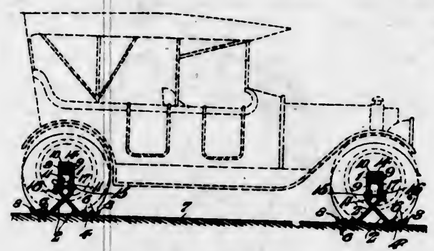
1. In a self contained sheet metal hammering machine, a supporting column, a motor mounted centrally in the upper end of said column, hammer device supporting frames secured to the upper end of said column and extending laterally therefrom at opposite sides thereof, means actuated by said motor for operating the hammer devices, and an anvil supporting bracket mounted upon said column near the lower end and extending laterally from each side thereof in coöperative relation with respect to the hammer device supporting frames whereby the reactions of the hammer devices are transmitted to and centered in the supporting column.

1,385,012. CORE OR OTHER RACK. ALBERT H. LEVENE, Philadelphia, Pa. Filed Dec. 11, 1919. Serial No. 344,225. 2 Claims. (Cl. 211—27.)



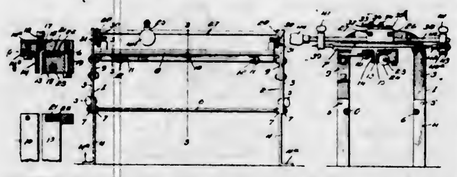
1. In a rack, corner standards, laterally extending structural metal bars supported by said standards and having upwardly directed flanges provided with T-shaped recesses opening through the tops of the flanges, and T-bars disposed at an angle to said bars and seated in the recesses of said flanges, said T-bars having their webs recessed to fit over said flanges, whereby relative movement of said T-bars with respect to said flanged bars except in an upward direction is prevented.

1,385,013. BRACE FOR SHIPPING VEHICLES. ALBERT H. LEVENE, Philadelphia, Pa. Filed Feb. 12, 1920. Serial No. 358,286. 6 Claims. (Cl. 188—82.)



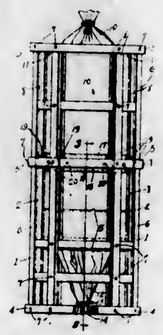
1. A brace for shipping vehicles, comprising a metal bar having an upwardly extending portion which terminates at its upper end in a lateral extension to limit the upward movement of a vehicle axle and having the side wall of said upwardly extending portion adapted to engage the side of an axle, the lower end of said bar being adapted to be secured to the platform of a car, whereby relative longitudinal movement of a vehicle and the platform on which it is shipped is prevented and limited vertical movement is permitted.

1,385,014. SAW-FILING DEVICE. HENRY LOGEL, Muskegon, Mich. Filed Aug. 4, 1920. Serial No. 401,112. 5 Claims. (Cl. 76—33.)



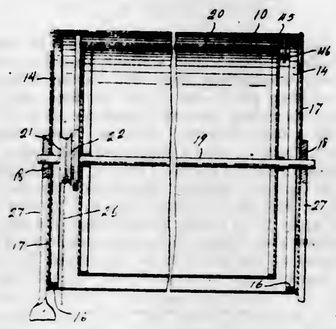
4. In a saw filing machine, a supporting frame, a file carriage mounted for longitudinal adjustment on said frame, a file holder mounted to reciprocate in said carriage transversely of the frame, and a saw clamp mounted on said frame below said carriage to swing in a horizontal plane to position the saw relatively to the file.

1,385,015. BANANA-CRATE. AUGUST LOMBARDO, Mason City, Iowa. Filed Sept. 2, 1919. Serial No. 321,096. Renewed June 3, 1921. Serial No. 474,767. 1 Claim. (Cl. 217—52.)



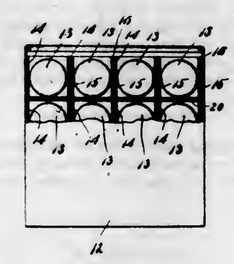
In a shipping crate, a protecting casing and an inner supporting casing, a cushioning bag supported within the protecting casing, means adjacent the upper end of the bag for supporting the same, a supporting hoop adjacent the lower end of the supporting casing, a strip of canvas embracing the supporting hoop, said strip of canvas having its ends extending upwardly and connected to the cushioning bag at a point above the supporting hoop.

1,385,016. SIGNAL-INDICATOR FOR AUTOMOBILES. JOHN G. LUCAS, Dearborn, Mich. Filed Oct. 6, 1920. Serial No. 414,979. 4 Claims. (Cl. 116—43.)



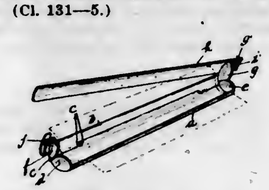
1. In an automobile signal, an outer casing comprising a tubular sheet metal portion provided with a longitudinal slot, the metal at the edges of said slot being crimped to afford guide grooves, a transparent medium closing said slot and having its longitudinal edges disposed within said guide grooves, the ends of said tubular member being likewise crimped to form an annular groove, end plates for said casing embodying an annular flange adapted to engage in said annular grooves and a drum rotatably mounted within said casing provided upon the exterior thereof with indicatory symbols alinable with the slot of said casing.

1,385,017. MERCHANDISE-PACKAGE. GEORGE C. MACDONALD, Elmhurst, N. Y. Filed May 1, 1920. Serial No. 378,120. 1 Claim. (Cl. 206—46.)



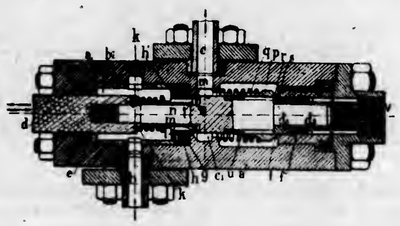
A merchandise package comprising a shipping container, a plurality of cartons containing segregated charges of merchandise and arranged in tiers in the container, and hinged covers associated with the cartons and turned back back against side walls of the cartons, whereby the cartons of each tier are cushioned and confined against loose lateral movement, and charges in packed cartons are exposed for inspection, each cover being movable to a position substantially concealing the charge in the accompanying carton, and securable in said position to confine the charge, when the carton is removed from the container.

1,385,018. CIGARETTE-FORMER. JAMES MACDONNELL, Haverhill, Mass. Filed Apr. 28, 1919, Serial No. 293,059. Renewed June 7, 1921. Serial No. 475,835. 6 Claims. (Cl. 131—5.)



3. A cigarette former comprising a pair of elongated correspondingly shaped mold sections pivotally connected at adjacent longitudinal edges and having transversely concave molding faces, one of said sections being longitudinally divided from one end, intermediate its side edges, to provide a main member, which is directly connected to the other section, and a supplemental member, means at the opposite end for normally holding said supplemental member in cigarette forming relation with the main member, and in position to permit one end portion of the cigarette paper to be passed therebetween, the exterior of said supplemental member being constructed to permit the end portions of the paper to be overlapped thereon and pressed thereagainst, to connect said end portions adhesively.

1,385,019. HYDRAULIC VALVE. EUGÈNE MATHIEU, Neuilly-sur-Seine, France. Filed Apr. 9, 1920. Serial No. 372,645. 3 Claims. (Cl. 138—16.)



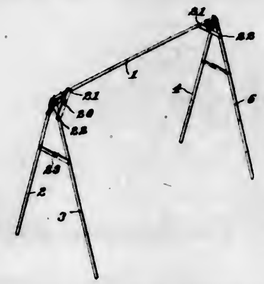
1. In a high pressure distributing valve, the combination of a movable member, a packing sealing a continuous rubbing surface of said member, an outlet in the wall thereof closed while passing the packing and means for opening the outlet as soon as the packing has been passed thereby.

1,385,020. COMBINED CYCLE STAND AND LOCK. EDWARD MAURICE, Melbourne, Victoria, Australia. Filed Dec. 21, 1920. Serial No. 432,263. 6 Claims. (Cl. 208—75.)



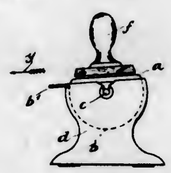
5. In a combined cycle stand and lock, a hinged stand adapted to support the machine frame; a pivoted arm adapted to connect the machine frame and the hinged stand and having means to accommodate a locking element for the purpose of maintaining the hinged stand in predetermined position relative to the machine frame; and means for maintaining the pivoted arm in idle position.

1,385,021. FOLDING FRAME. HARRY MINTZ, Boston, Mass. Filed June 3, 1920. Serial No. 386,383. 9 Claims. (Cl. 5—32.)



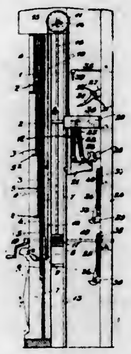
1. A folding frame comprising in combination a transversely extending hammock support, a bracket fixedly secured to said support and having an angularly disposed ear, a leg member permanently and pivotally secured to said ear and constructed and arranged to swing in a plane substantially parallel to the axis of the support and a foldable brace having its opposite extremities pivotally secured to said support and leg, respectively.

1,385,022. STAMP-INKING PAD. NATE MOCK, London, England. Filed July 2, 1920. Serial No. 393,577. 2 Claims. (Cl. 91—54.5.)



1. A stamping pad including a casing, a pad rotatably mounted within the casing, said pad having an ink delivering surface, said ink delivering surface adapted to normally lie within the casing and said pad having means to be engaged by a stamp for moving the ink delivering surface to a position exteriorly of the casing.

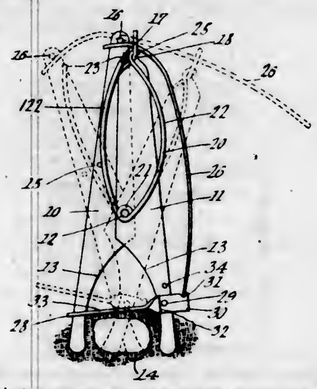
1,385,023. METALLIC CURTAIN. ANDRES PARODI and JOSE BORELLO, Buenos Aires, Argentina. Filed June 1, 1918. Serial No. 237,779. 3 Claims. (Cl. 189—60.)



1. A curtain device having a series of relatively movable coöperating sections, abutments on said sections adapted

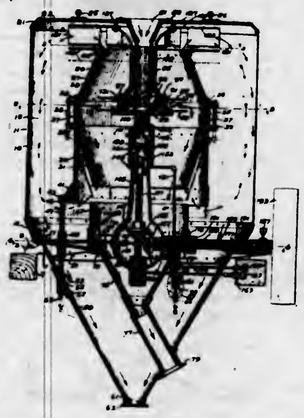
to engage another section, a reversible drum, means operatively connecting the lowermost section with said drum, means to revolve said drum to successively raise and lower said sections, a counterbalance connected with said drum and movable in a direction opposite to that of said sections, and means automatically to increase and decrease the weight of said counterbalance in proportion to the increase or decrease in the weight of said sections.

1,385,024. MOLE-TRAP. MANNING W. RUSSELL, Curtis, La. Filed Feb. 7, 1920. Serial No. 356,929. 5 Claims. (Cl. 43—88.)



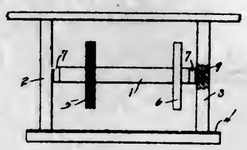
1. A mole trap comprising jaws; a pivot element uniting the jaws intermediate their ends; a V-shaped spring connected to the jaws at one end of the jaws and provided with oppositely disposed coils located adjacent to the pivot element; a latch strip carried by the above specified end of one jaw and movably engaged with the corresponding end of the other jaw whereby, when said ends of the jaws are moved toward each other, the strip will extend longitudinally of the jaws; and oppositely disposed triggers pivoted to one jaw at the extremity of the strip and provided with notches engaging said extremity of the strip to hold the opposite ends of the jaws spaced, the triggers projecting laterally beyond the jaws and being upwardly movable to release the strip.

1,385,025. AIR-SEPARATOR. THOMAS J. STUARTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed May 15, 1919. Serial No. 297,291. 14 Claims. (Cl. 83—40.)



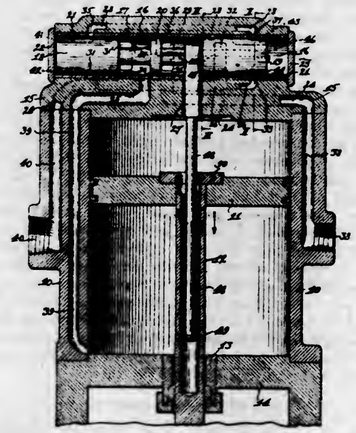
1. A separator, comprising, in combination, outer and inner chambers communicating to allow an air circuit therethrough including upward air currents in one and downward air currents in the other, a foundation member for supporting said outer chamber, posts beneath the inner chamber projecting through said foundation member for supporting the said inner chamber, and means longitudinally to adjust said posts to vary the elevation of the inner chamber in the outer chamber.

1,385,026. BOX BULL AND CALF WHEEL GUDGEON. JAMES THOMAS TAYLOR, Fort Worth, Tex. Filed Apr. 28, 1921. Serial No. 465,337. 5 Claims. (Cl. 64—41.)



3. A bull and calf wheel shaft gudgeon comprising the combination of a cylindrical shaft having the ends thereof polygonal in cross-section shape and a gudgeon for each end of the shaft having a cylindrical body countersunk in the surface of said shaft and having a polygonal shaped cavity receiving the end of the shaft.

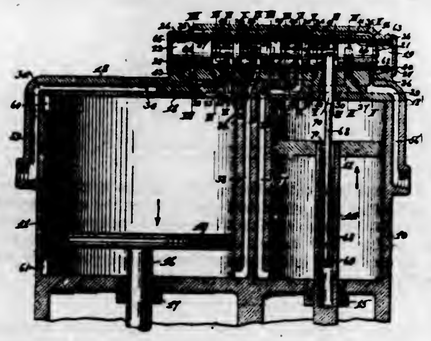
1,385,027. ENGINE. PEIRCE VAN VLECK and HOWARD COOPER, Baltimore, Md., assignors to William H. Peirce, Baltimore, Md. Filed May 22, 1920. Serial No. 383,482. 2 Claims. (Cl. 121—153.)



1. A non-rotative motor comprising a cylinder, a piston reciprocating within said cylinder, combined live fluid and exhaust ports leading to opposite ends of the cylinder, a live fluid pressure port and an exhaust port, a chest at one end of the cylinder and having a series of openings communicating with the live pressure and exhaust ports and ports leading to the opposite ends of the cylinder, a combined oscillating and fluid actuated reciprocating distributing valve within said chest and having ports so constructed and arranged to coöperate with said series of openings communicating with the live fluid pressure exhaust ports and ports leading to the opposite ends of the cylinder to admit live fluid pressure on opposite sides of the piston to reciprocate said piston and exhaust said fluid from the cylinder and admit live fluid pressure within the chest and on each end of the distributing valve and exhaust said fluid from the chest, and a single valve rod whose axis is eccentrically arranged with respect to the axis of the valve and actuated by the reciprocation of the piston and freely passing through the port leading

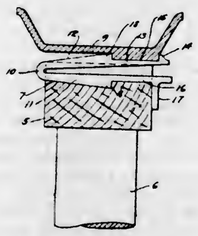
into the cylinder at the end nearest to the chest for oscillating said reciprocating distribution valve and without in any way obstructing the passage of the live fluid into or exhaust of expanded fluid from the cylinder.

1,385,028. COMPOUND ENGINE. PEIRCE VAN VLECK and HOWARD COOPER, Baltimore, Md., assignors to William H. Peirce, Baltimore, Md. Filed Sept. 28, 1920. Serial No. 413,254. 6 Claims. (Cl. 121—108.)



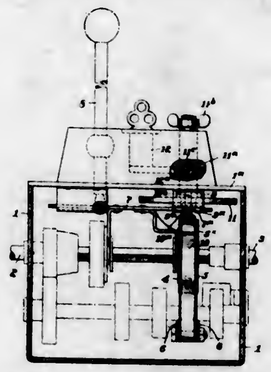
1. A cross-compound engine comprising a high pressure cylinder, a low pressure cylinder, a piston reciprocating within each of said high and low pressure cylinders, a live fluid pressure port and an exhaust port, ports leading to the opposite ends of said high and low pressure cylinders, a chest having a series of openings communicating with the live fluid pressure and exhaust ports and ports leading to the opposite ends of said high and low pressure cylinders, a combined oscillating and reciprocating distributing valve within said chest and having ports so constructed and arranged to coöperate with said series of openings communicating with the live fluid pressure and exhaust ports and ports leading to the opposite ends of said high and low pressure cylinders to admit live fluid pressure on opposite sides of the piston in the high pressure cylinder and direct the expanded fluid within said high pressure cylinder to the opposite sides of the piston within the low pressure cylinder and the expanded fluid within the low pressure cylinder to the exhaust port and admit live fluid pressure within the chest and on each end of the distributing valve to reciprocate the same and exhaust said fluid from the chest, and means actuated by the reciprocating of a piston for oscillating said reciprocating distribution valve.

1,385,029. DEMOUNTABLE-RIM WEDGE. GEORGE EMMETT VOORHEES, Jr., Santa Barbara, Calif. Filed May 11, 1920. Serial No. 380,548. 4 Claims. (Cl. 301—20.)



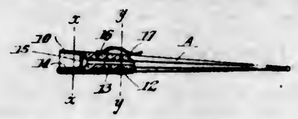
1. In a wheel having a fixed rim provided with a plurality of recesses, each having a shoulder, the combination of a plurality of expansible wedges, each wedge having a face provided with a projection to rest against a shoulder, and a demountable rim having an internal shoulder, each wedge being provided with a shoulder on its opposite face to rest against the shoulder on said rim.

1,385,030. MOTOR-VEHICLE LOCK. GLENN T. WATT, Minden, Nebr. Filed Aug. 30, 1920. Serial No. 406,841. 10 Claims. (Cl. 70—126.)



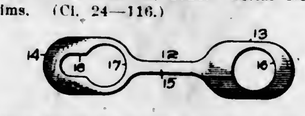
1. The combination with a change speed mechanism embodying sliding gears, of a pair of spring pressed detent levers arranged on opposite sides of one of said gears to engage the teeth thereof, a pair of actuating levers associated with said detent levers and having a lost motion connection therewith, manually controlled means for simultaneously moving said actuating levers, and a locking device for said manually controlled means.

1,385,031. EJECTOR FOR CIGARETTE-HOLDERS. MILES E. BAILEY, Ottawa, Ontario, Canada. Filed May 27, 1919. Serial No. 300,232. 1 Claim. (Cl. 131—10.)



In combination with a cigarette holder having a socket in the end thereof and provided with a groove in the wall of the socket, and a longitudinally extending groove in the outer wall of the holder, an ejector formed with an ejecting finger on one end bent to form a hook and slidably engage with the groove in the wall of the socket, the end of the finger being turned laterally and designed to abut the end of a cigarette, a stud carried by the ejector and coacting with the groove in the outer wall of the holder, a split ring engaging with the ejector, and a spring finger carried by the split ring.

1,385,032. CHAIN-ATTACHING DEVICE. MARK BAKER, Worcester, Mass., assignor to Worcester Pressed Aluminum Company, Worcester, Mass., a Corporation of Massachusetts. Filed Dec. 13, 1920. Serial No. 430,367. 3 Claims. (Cl. 24—116.)



3. A chain attaching device comprising a headed stud and a link formed of non-resilient material, said link having openings at each end through which the head of said stud may be passed and one of said openings having a narrow extension toward the adjacent end of said link adapted to receive the stem of said stud, the intermediate portion of said link being relatively narrow and easily bent after the parts are assembled.

1,385,033. PAINT VEHICLE FOR ANHYDROUS PIGMENTS. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed June 12, 1917. Serial No. 174,255. 5 Claims. (Cl. 134—56.)

1. A paint-vehicle comprising a fatty oil; and a mineral oil of the Texas oil type.

1,385,034. PAINT COMPOSITION. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed June 12, 1917. Serial No. 174,256. 10 Claims. (Cl. 134—56.)

1. A paint-composition comprising a mineral oil of the Texas oil type, and an anhydrous pigment.

1,385,035. MINERAL OIL. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Feb. 9, 1921. Serial No. 443,671. 3 Claims. (Cl. 134—56.)

1. As a new composition of matter, a mixture of a mineral oil of the Texas oil type, and tung oil.

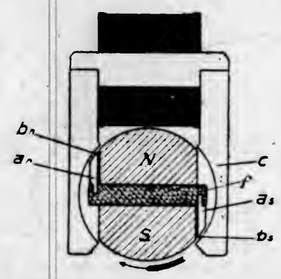
1,385,036. MINERAL OIL. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Feb. 9, 1921. Serial No. 443,672. 3 Claims. (Cl. 134—56.)

1. A mixture of a mineral oil, of the Texas oil type, oxidized, and a fatty oil.

1,385,037. MINERAL OIL. WILLIAM N. BLAKEMAN, Jr., Mount Vernon, N. Y. Filed Feb. 9, 1921. Serial No. 443,673. 10 Claims. (Cl. 134—56.)

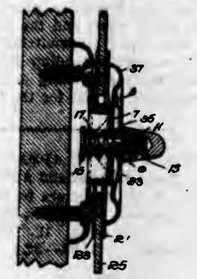
1. A mineral oil, of the Texas oil type, hydrogenated.

1,385,038. ROTOR FOR MAGNETO-ELECTRIC MACHINES. JACQUES BOHLI, Obach, Solothurn, Switzerland, assignor to Firm Scintilla, Solothurn, Switzerland. Filed Nov. 6, 1918. Serial No. 261,430. 1 Claim. (Cl. 171—209.)



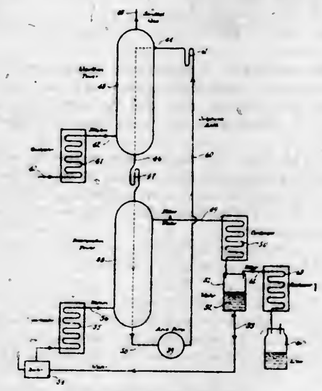
In an ignition generator the combination with an induced member comprising a yoke and spaced pole pieces of magnetic material of an inducing member positioned between said pole pieces and relatively movable thereto, and having magnetically polarized projections equal in number to the pole pieces, and auxiliary pole tips of magnetic material located on the trailing edges of the rotor poles and magnetically insulated therefrom, whereby the reluctance of the flux path is gradually varied during the revolution of the rotor.

1,385,039. TURNBUTTON-FASTENER. DAVID BOURQUE, Amesbury, Mass., assignor to G. W. J. Murphy Company, Amesbury, Mass., a Corporation of Massachusetts. Filed Jan. 6, 1920. Serial No. 349,749. 12 Claims. (Cl. 24—221.)



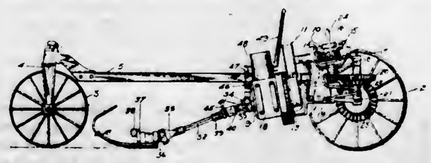
1. An eyelet for a turnbutton fastener having an oblong opening and a face gradually inclining upwardly to the minor axis of the opening providing cam surfaces over which the turnbutton head may ride in movement to traversing position.

1,385,040. PRODUCTION OF ETHER. CHARLES S. BRADLEY, New York, N. Y., assignor to American Cellulose & Chemical Manufacturing Company, Limited, New York, N. Y. Filed Nov. 20, 1919. Serial No. 339,336. 1 Claim. (Cl. 23—24.)



The method of producing ether which comprises absorbing ethylene in sulfuric acid at about 140° C. and introducing into the mixture superheated steam at a temperature higher than the boiling point of the acid to keep the strength of the acid substantially constant.

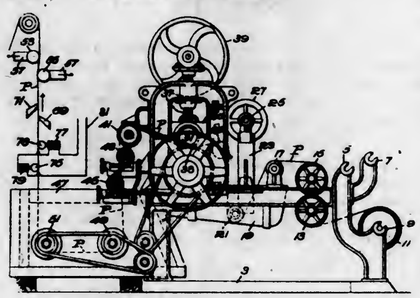
1,385,041. MOTOR AGRICULTURAL MACHINE. ALEXANDER T. BROWN, Syracuse, N. Y. Filed July 15, 1918. Serial No. 245,024. 2 Claims. (Cl. 56—25.)



1. In an agricultural machine, the combination of a frame, a drive wheel, an implement including a movable

member, a motor having a drive shaft and located with its drive shaft extending lengthwise of the frame and the drive wheel being located to the rear of the motor and the implement near the front end of the frame and in front of the motor, and independently operable and controllable power transmitting means between the rear end of the motor shaft and the drive wheel and between the front end of the motor shaft and the movable member of the implement, the power transmitting means connected to said movable member extending forwardly from the front end of said shaft and being arranged end to end therewith, substantially as and for the purpose described.

1,385,042. METHOD OF AND APPARATUS FOR WAXING PAPER. JOHN DECKER and ADOLPH CHARLES VAN SLUYS, Nashua, N. H., assignors to Nashua Gummed & Coated Paper Company, Nashua, N. H., a Corporation of Massachusetts. Filed Aug. 19, 1920. Serial No. 404,603. 16 Claims. (Cl. 91—32.)

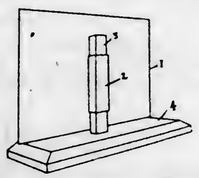


1. The method of making wax paper which comprises first coating the same with heated wax, then finishing the surface, then setting the wax by subjecting it to the action of a water bath and then removing the water by suction.

8. In a machine for making wax paper the combination with paper guiding, feeding means, of means for applying heated wax thereto, means for subjecting it during travel to the action of a cooling bath and a suction member for removing moisture.

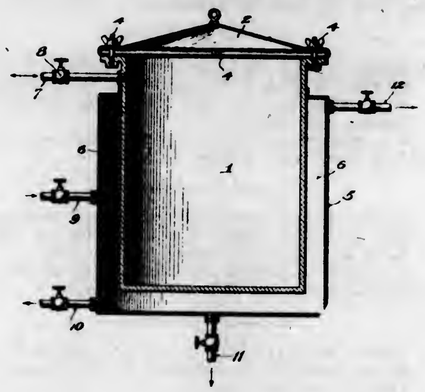
15. In a machine for making wax paper, the combination with paper guiding, feeding means, of means for applying heated wax thereto, means for subjecting it during travel to the action of a cooling bath, and means for removing moisture from the paper web, the same comprising means for vibrating the web after leaving the bath, and pneumatic means for removing the surplus moisture.

1,385,043. COLLAPSIBLE SLIP-ON. MILTON S. DUNKELBERGER, Dayton, Ohio. Filed June 1, 1920. Serial No. 385,507. 1 Claim. (Cl. 40—125.)



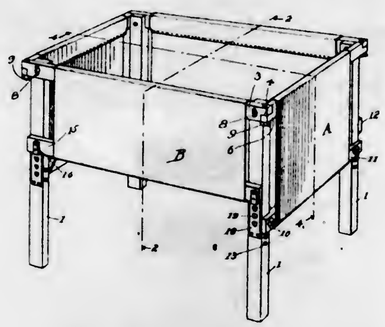
In a device of the type described, the combination with a base, of a standard projecting upwardly from its middle portion, a display card adapted to rest on said base, and a collapsible tubular member applied to the rear surface of said card, adapted to be slipped on said standard to hold said card in a vertical position on said base.

1,385,044. PROCESS OF PRODUCING CELLULAR MATERIAL. KARL H. FULTON, Pittsburgh, Pa. Filed May 6, 1920. Serial No. 379,308. 9 Claims. (Cl. 18—53.)



1. The process of producing cellular rubber, comprising mixing rubber with gas occluded particles, in subjecting the mixture to the presence of gas under pressure to be absorbed by said gas occluded particles, in vulcanizing the material while being subjected to the gas pressure, in allowing the material to then cool, and in finally heating the material to cause the occluded gas to be discharged from the particles forming in the material a multitude of gas cells.

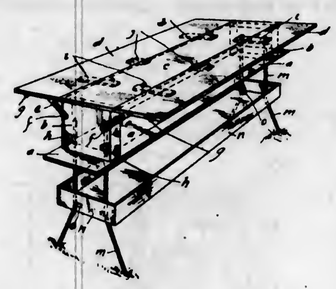
1,385,045. BED. THOMAS H. GRIFFITH, Cincinnati, Ohio. Filed Jan. 31, 1919. Serial No. 274,359. 3 Claims. (Cl. 5—58.)



1. A bed comprising a frame of corner posts, an upper and lower set of bars at the sides and ends, flexible webbing stretched across the frame in two directions, one of the side bars of the lower set having an adjustable mounting means on the corner posts, for the purpose described.

1,385,046. CONVERTIBLE TABLE. JOHN E. HARDY, Portland, Oreg. Filed Feb. 9, 1920. Serial No. 357,352. 3 Claims. (Cl. 190—12.)

1. In a camp table, the combination of a case-like body, legs adapted for being removable fastened in the ends of the case the lower ends of the legs being bent at coincident angles, and a flanged cover adapted for being



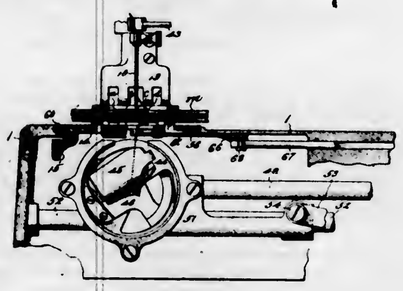
mounted on said legs so as to form a shelf therewith, and at the same time to hold said legs rigid.

1,385,047. THREAD-GUIDE AND MEANS OF ATTACHMENT. FERDINAND Q. HARTMAN, Danville, Pa. Filed Apr. 14, 1920. Serial No. 373,748. 5 Claims. (Cl. 242—157.)



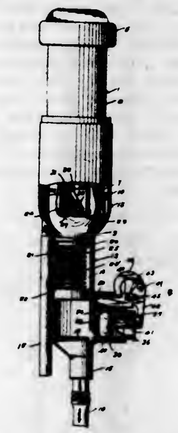
3. In a device of the character described, a thread guide lever having an opening for the reception of a guide eye, and a guide eye having a body portion composed of spring wire, said body portion of the guide eye being provided with a hump, whereby the body portion of the guide eye may be compressed and inserted into the opening with its hump protruding from one end thereof for holding the eye in position on the lever.

1,385,048. THREAD-CONTROLLING DEVICE FOR SEWING-MACHINES. PARK A. HERR, Hillside, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed July 27, 1918. Serial No. 246,984. 5 Claims. (Cl. 112—159.)



1. In a lock stitch sewing machine, in combination, upper thread mechanism including a reciprocating needle, cooperating lower-thread mechanism including a loop-taker, means for producing relative jogging movement between both needle and loop-taker and the work, means engaging the lower thread leading from the last stitch to position the same in substantial alinement with the location of the succeeding stitch in either direction, and means acting upon the upper thread for setting the stitch.

1,385,049. AUTOMATIC STOP FOR MILKING-MACHINES. ERNEST D. HOLMES, Athens, Ga. Filed July 23, 1920. Serial No. 398,335. 20 Claims. (Cl. 31—101.)



1. In combination, a teat cup held to a teat by having the air displaced therein and a vacuum tube, a casing connecting the tube and cup and having the air pressure therein decreased and increased at intervals and at a pressure below atmospheric pressure, a milk receiving means in the cup and having communication with the casing, a valve in said means, means reciprocated by the increase and decrease of air pressure for opening and closing the valve, and means adapted to admit atmospheric pressure to the casing and cup on the exhaustion of milk from the teat.

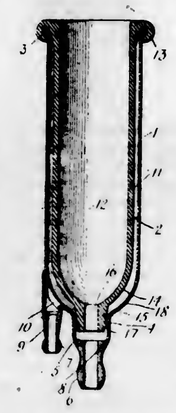
4. In combination, a teat cup held to a teat by having the air displaced therein and a vacuum tube, a casing connected to the tube and cup and having the air pressure therein decreased and increased and at a pressure below atmospheric pressure, milk receiving means in the cup, a valve chamber connected to said means, a valve in said chamber, means mounted for reciprocation in the casing and adapted to unseat and seat the valve, said last means being reciprocated by the increase and decrease of air pressure, and means adapted to admit atmospheric pressure to the casing and cup on the exhaustion of milk from the teat.

7. In combination, a teat cup held to a teat by having the air displaced therein and a vacuum tube, a casing connected to the tube and cup and having the air pressure therein decreased and increased and at a pressure below atmospheric pressure, milk receiving means in said cup, a valve chamber connected to said means, a valve in said chamber, a tube connected to the valve chamber and having communication with the cup, a plunger reciprocally mounted in the casing and tube and adapted to unseat and seat the valve and be reciprocated by the increase and decrease of air pressure, and means adapted to admit atmospheric pressure to the casing and cup on the exhaustion of milk from the teat.

11. In combination, a teat cup held to a teat by having the air displaced therein and a vacuum tube, a casing connected to the tube and cup and having the air pressure therein decreased and increased and at a pressure below atmospheric pressure, a valve chamber connected to said cup, a valve in said chamber, a tube connected to the valve chamber and extending into the casing and having openings in communication with the cup, a plunger reciprocally mounted in the casing and tube, a spring connected to the plunger and casing for normally urging the plunger upwardly to unseat the valve, said plunger adapted to be moved downwardly by the decrease of air pressure in the casing, and means adapted to admit atmospheric pressure to the casing and cup on the exhaustion of milk from the teat.

18. In combination, a teat cup held to a teat by a vacuum, and a vacuum tube, a casing connecting the tube and cup and having the air pressure therein decreased and increased and at a pressure below atmospheric pressure, a milk receiving means in the casing, a valve for said means, a valve actuating means in said casing, a housing having communication with the casing, a member slidable in said housing and having a vent opening and moved toward the casing by atmospheric pressure and limited in said movement by the valve actuating means during its operation and adapted to move within the casing on discontinuance of the operation of said valve actuating means, means for operating the member in an opposite direction, and means for opening and closing the vent opening at certain positions of the member.

1,385,050. TEAT-CUP. HERBERT MCCORNACK, Glen Ridge, N. J., assignor to Empire Cream Separator Company, Bloomfield, N. J., a Corporation of New Jersey. Filed Nov. 21, 1917. Serial No. 203,137. 18 Claims. (Cl. 31—102.)



1. In a teat cup of the character described, the combination of a casing and a flexible lining held in said casing at its lower end by suction.

3. In a teat cup of the character described, the combination of a casing and a flexible lining held in said casing by frictional engagement and suction only.

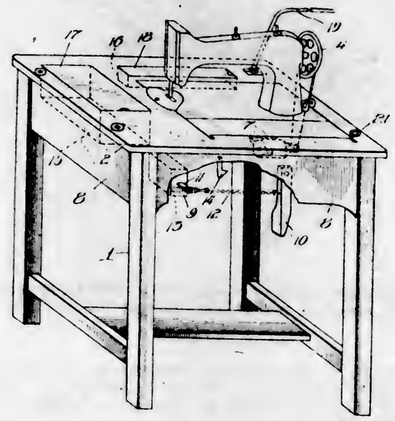
7. In a teat cup of the character described, the combination of a casing having a pocket at the lower end thereof and a flexible lining in said casing having a neck held in said pocket by yielding, frictional engagement.

11. In a teat cup of the character described, the combination of a casing having a pocket of reduced diameter at its lower end and a flexible lining mounted in said casing and having a neck extending into said pocket, the lower end of said casing extending beyond the end of said neck and carrying a discharge nipple.

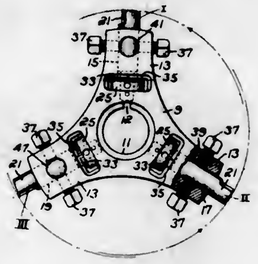
18. A teat cup casing comprising a main body part inclosing an outer teat cup chamber and having an extension of reduced diameter inclosing a pocket the inner side wall of which is substantially cylindrical and merges into the lower part of the chamber wall, a nipple carried by said extension and having a discharge orifice opening into said pocket and a second nipple opening into the main portion of the casing.

1,385,051. COMBINATION SEWING-MACHINE AND TABLE. GEORGE H. RIDDELL, Buffalo, N. Y., assignor to Domestic Sewing Machine Co. Inc., Buffalo, N. Y., a Corporation of New York. Filed Apr. 6, 1918. Serial No. 226,970. 1 Claim. (Cl. 45—27.)

In combination, a table having a depending skirt like part around the upper portion thereof, a sewing machine head adapted to be concealed below the top of the table and behind said skirt-like part, a controlling device for the sewing machine mounted on the under side of the table so as to be movable from a position in which it extends down to about the level of the knee of an operator seated at the table to a position in which it is concealed by said skirt-like part and a catch for holding said controlling device in the latter position.



1,385,052. BORING AND MILLING TOOL. HARRY SARGESON, Beverly, Mass. Filed Nov. 21, 1919. Serial No. 339,667. 12 Claims. (Cl. 29—105.)

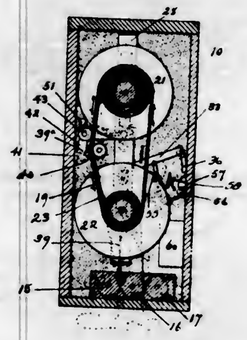


1. A tool of the class described comprising a rotatable stock having radial cutter-receiving sockets disposed at successively increasing distances from the face thereof and axial cutter-receiving sockets disposed at successively increasing distances from the center thereof, and means for supporting cutters in the first with provision for radial adjustment and in the second with provision for axial adjustment.

1,385,053. TOWEL-VENDING MACHINE. CLARENCE E. SHANKLIN and CLARENCE B. BURGE, Boston, Mass. Filed Aug. 14, 1920. Serial No. 403,543. 12 Claims. (Cl. 45—32.)

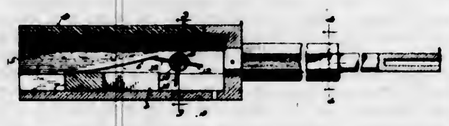
1. A towel vending machine having, in combination, a delivery roll, a take-up roll, a strip of toweling wound around said delivery roll and extending to and around said take-up roll, a spool fast to each of said rolls, a band of sheet material wound around said spools to correspond to the toweling wound around said rolls, means to rotate said take-up roll and an endless belt extending around said spools upon said band and driven by frictional engagement with said band.

12. A towel vending machine having, in combination, a delivery roll, a take-up roll, a strip of toweling wound around said delivery roll and extending to and around said take-up roll, a spool fast to each of said rolls, a band of sheet material wound around said spools to correspond to the toweling wound around said rolls, means to rotate said take-up roll, an endless belt extending around said spools upon said band and driven by frictional engagement with said band, a ratchet wheel fast to each of said rolls, a sliding bar, pawls fast to said sliding bar adapted to engage said ratchets to prevent



the rotation of said rolls in one direction, means to prevent the rotation of said rolls in a reverse direction, means to raise said bar to disengage said pawls from said ratchets, a dog adapted to hold said bar in its raised position, a bell, a striker fast to said dog and means operated by said endless belt adapted to rock said dog and thereby release said bar and allow said pawls to again engage said ratchets and also ring said bell, and coin operated means to prevent said sliding bar from being raised.

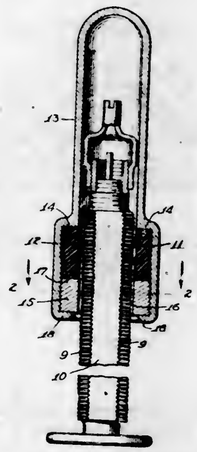
1,385,054. TOY MACHINE-GUN. FLOYD H. SOMMERS, Bowling Green, Ohio. Filed Feb. 3, 1920. Serial No. 356,022. 2 Claims. (Cl. 46—46.)



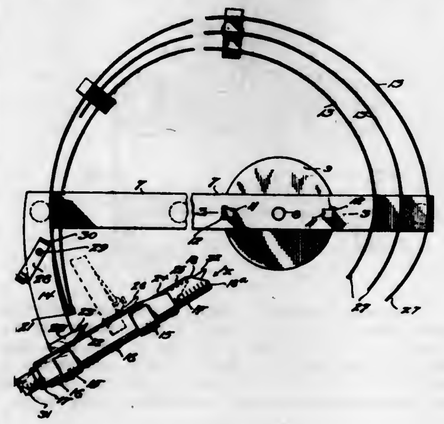
1. A toy machine gun comprising a breech member, a barrel member projecting from the forward end thereof and comprising a plurality of sections diminishing in diameter from breech to mussle, the breech section having contained therein a sounding mechaniam comprising a recessed block carrying a resilient clapper positioned over the recess thereof, a spur wheel projecting into said recess and engaging said clapper and actuated by a cranked handle member carried by the supporting shaft of said wheel on the exterior of the breech member.

1,385,055. DUST-CAP FOR PNEUMATIC TIRES. WILLIAM O. VIVARTTAS, Weehawken, N. J. Filed Mar. 25, 1920. Serial No. 368,492. 2 Claims. (Cl. 152—12.)

1. A dust cap for service with a pneumatic valve embodying a mutilated cylindrical stem, said cap comprising a tubular body closed at one end for enfolding freely said stem; an open-centered ram held permanently in said body, the opening in said ram being shaped in correspondence with said stem for holding said ram on said stem nonrotatively to move freely lengthwise thereover; an open-centered yielding packing member supported within said body for distention to engage said stem; and means operatively connecting said body and said ram for moving said body toward said ram for distending said member when said body is rotated.



1,385,056. REPEATING DEVICE FOR TALKING-MACHINES. GEORGE F. VOITH, Philadelphia, Pa. Filed Oct. 1, 1920. Serial No. 413,989. 11 Claims. (Cl. 274—15.)

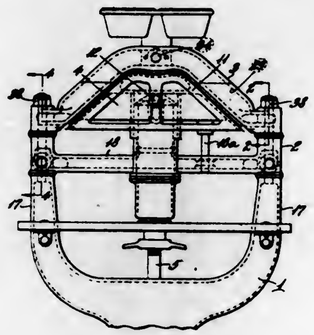


1. A device of the character described including a transfer portion for a reproducing element; and a switch for moving said transfer portion; substantially as described.

1,385,057. PRESSING-MACHINE. CHARLES E. WARRAM and GEORGE N. LINK, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 18, 1919. Serial No. 305,048. 16 Claims. (Cl. 68—9.)

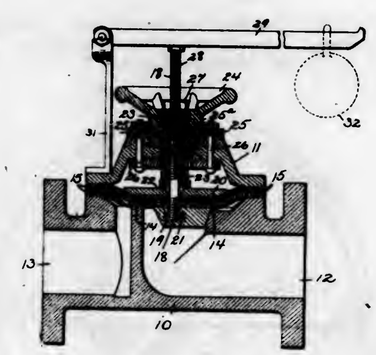
1. A pressing machine, comprising a hollow pressing member, a cooperating presser, said pressing member and

presser being relatively movable, a hollow heating member therefor, and means for securing said members to-



gether, said means also providing communication between the chambers of said hollow members.

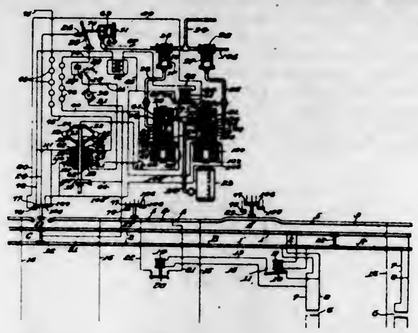
1,385,058. VALVE. FRANK A. WARTER, Perth Amboy, N. J. Filed May 29, 1920. Serial No. 385,160. 7 Claims. (Cl. 251—1.)



1. A valve comprising a casing having inlet and outlet ports with a valve seat between them, a diaphragm disposed so as to be forced on the seat to close it, a stem secured to the diaphragm, and a sleeve movable longitudinally in the casing and adapted to lock the diaphragm in closed position, the stem being slidable in the sleeve.

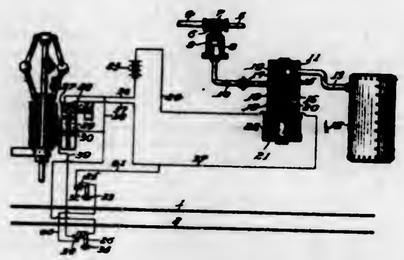
1,385,059. TRAIN-CONTROLLING DEVICE. FRANK C. WILLIAMS, Philadelphia, Pa., assignor to The Safety Block Signal Company, a Corporation of Delaware. Filed Jan. 9, 1917. Serial No. 141,355. 7 Claims. (Cl. 246—31.)

1. In an automatic train controlling mechanism, the combination of means for stopping and controlling the speed of a train, a main electric circuit for supplying energy for propelling a train, a shunt circuit connected to said main electric circuit for supplying energy to said first mentioned means to normally maintain the same inoperative, auxiliary means for automatically controlling the speed of the train at certain points in the line, an auxiliary electric circuit therefor and common means



for substituting said auxiliary circuit for said main circuit and for controlling said auxiliary train controlling means.

1,385,060. AUTOMATIC TRAIN-SPEED-CONTROLLING MECHANISM. FRANK C. WILLIAMS, Philadelphia, Pa., assignor to The Safety Block Signal Company, a Corporation of Delaware. Filed Apr. 19, 1917. Serial No. 163,099. 4 Claims. (Cl. 246—182.)

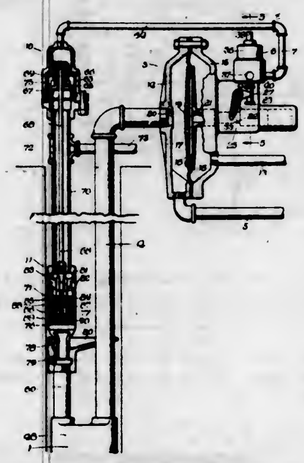


1. In a train controlling mechanism, electromagnetically operated means for controlling the speed of a train, a current supplying means therefor, a plurality of circuits adapted to be made for controlling the supply of current to said electromagnetic means, a set of make and break connections controlled by the speed of the train, another set controlled by the location of the train in the line, one of said circuits adapted to be passed through one of said speed controlled connections, another through said train location controlled connection and another adapted to be made through one of said speed controlled connections, one of said track controlled connections and a contact of another of said track controlled connections whereby current is supplied to the electromagnetic means independent of the speed of the train when the circuit through the track controlled connections is closed, and the supply current is broken when one of said track controlled connections is open and the train is moving above a predetermined speed or when the other of said track controlled connections is open and the train is moving above a different predetermined rate of speed.

1,385,061. PUMP AND PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 27, 1917. Serial No. 183,094. 108 Claims. (Cl. 103—8.)

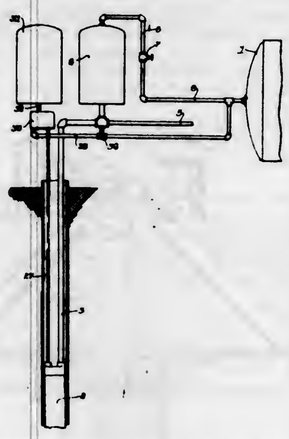
1. In a system of the class described, a pump comprising a single cylinder having liquid inlet and outlet check

valves, a discharge pipe and an air pipe, a source of compressed air communicating with the air pipe, a master valve means above the level of the liquid controlled by the discharge of liquid from the cylinder, and a relay in the



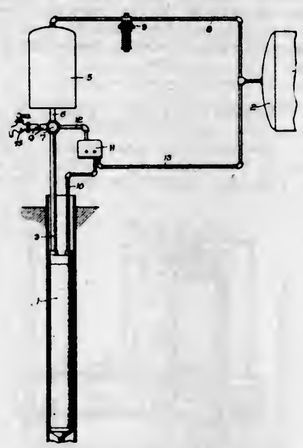
well adjacent to the pump cylinder controlling the inlet of air from said source through the pipe to the pump cylinder, and means governed by the master valve for operating the relay valve.

1,385,062. PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 27, 1917, Serial No. 183,095. Renewed Apr. 7, 1921. Serial No. 459,336. 41 Claims. (Cl. 103—8.)



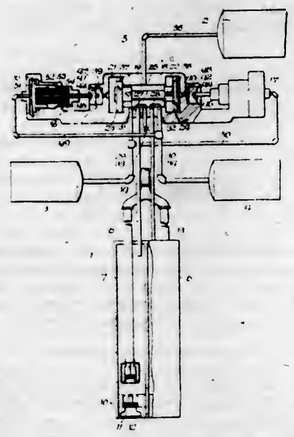
15. The method of controlling a pumping system of the class described which consists in accumulating a supply of motive fluid at a predetermined pressure, sufficient to make only one stroke of the pump, accumulating a supply of liquid to be pumped, causing the accumulated supply of motive fluid to engage the accumulated supply of liquid, then moving the liquid by the expansion of the motive fluid, and then disengaging the motive fluid from the liquid by the drop of pressure in the motive fluid caused by said expansion.

1,385,063. PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 27, 1917. Serial No. 183,096. 24 Claims. (Cl. 103—8.)



1. In combination a pump cylinder, a control valve for the pump cylinder for admitting and exhausting motive fluid, a discharge pipe, means communicating with the discharge pipe for exerting a yielding pressure invariably higher than atmosphere upon the fluid in the same, a source of motive fluid and a pressure controlled valve subject to the change of pressure caused in the discharge main by the individual pump strokes governing the shifting of the control valve for each stroke of the pump.

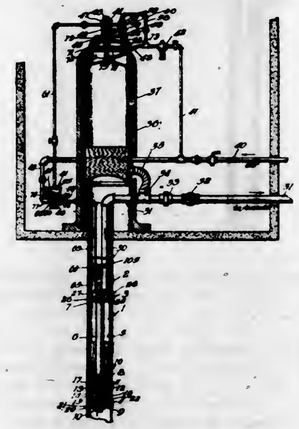
1,385,064. PUMPING SYSTEM. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed July 27, 1917, Serial No. 183,098. Renewed Apr. 15, 1921. Serial No. 461,678. 26 Claims. (Cl, 103—8.)



26. In combination, a pumping chamber, a source of motive fluid at a predetermined pressure, a main valve, a

motor and a pressure controlled member subject to the pressure in the pumping chamber, and means for applying a predetermined quantity of motive fluid at said predetermined pressure to the pumping chamber and permitting it to expand as the water is driven out of the pumping chamber, said pressure controlled member operating when the pressure in the pumping chamber has dropped to a predetermined minimum to cause the motor to shift the main valve to connect the pumping chamber to exhaust.

1,385,065. PNEUMATIC PUMP. BURTON S. AIKMAN, Milwaukee, Wis., assignor to National Brake & Electric Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 11, 1919. Serial No. 330,038. Renewed Apr. 9, 1921. Serial No. 459,977. 28 Claims. (Cl. 103—8.)



1. In a faucet controlled pneumatic displacement pumping system having the usual single cylinder pump barrel submerged in the liquid and an air spring for steadying the flow of liquid discharged and having an air valve governing the admission and exhaust to and from the pump barrel, the combination of means for weighing the water contained in the air spring and means operated when the weight of water in the air spring drops below a predetermined minimum value for shifting the air valve to admit compressed air to the pump cylinder.

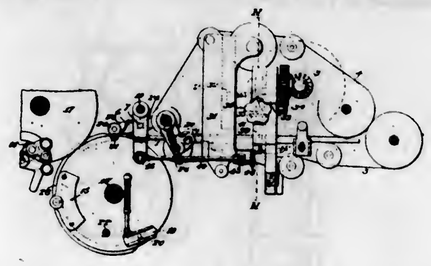
1,385,066. THREAD-GUIDE. DAVID AYRES, Paterson, N. J. Filed Jan. 4, 1921. Serial No. 434,917. 7 Claims. (Cl. 242—157.)



1. In a thread guiding device, the combination of an attenuated support having an enlarged holder on one end thereof formed with a seat, a guide having a base bearing on said seat, and a spring coupling removably holding the guide to the holder in rigid relation thereto.

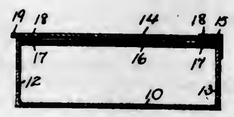
1,385,067. SHEET-HANDLING MACHINE. HOWARD M. BARBER, Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y., a Corporation of Delaware. Original application filed Jan. 4, 1918, Serial No. 210,342. Divided and this application filed Apr. 23, 1918. Serial No. 230,272. 6 Claims. (Cl. 1—7.)

6. A stitcher, its movable support, a sheet stop, its movable support, a stationary table and a common means connected to both the stitcher and sheet stop supports



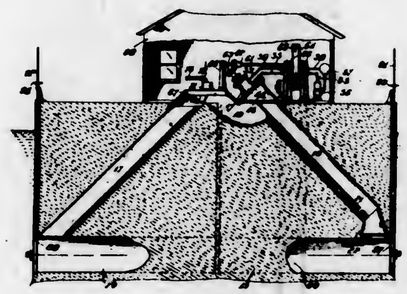
for moving them and maintaining their predetermined distance from each other while the parts are operating.

1,385,068. BOX. LOUIS BINDER, Newark, N. J. Filed Jan. 23, 1920. Serial No. 353,524. 4 Claims. (Cl. 229—45.)



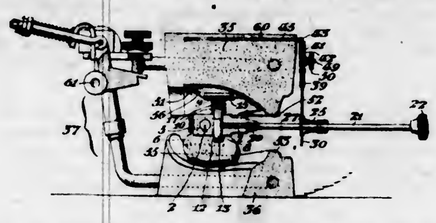
1. A box comprising a body portion with side walls, a lid, and a flat sheet on the inner side of the lid and secured thereto and forming a part thereof so that all parts of the flat portion of the sheet are movable toward the lid and can therefore press evenly on the contents of the box.

1,385,069. PUMPING APPARATUS. MATTHEW T. CHAPMAN, Aurora, Ill., assignor to The American Well Works, Aurora, Ill., a Corporation of Illinois. Filed Oct. 30, 1918. Serial No. 260,295. 16 Claims. (Cl. 103—43.)



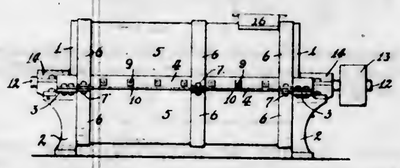
1. A pumping apparatus of the class described, comprising in combination reversely-inclined suction and discharge pipes and a communicating passage connecting the upper ends of such pipes, said passage being of greater diameter horizontally than it is vertically, and having an upper wall with a substantially horizontal surface, rotary propeller means in the lower portion of said suction pipe, means for driving said propeller means, and supports for said driving means secured in part upon said upper wall of the said passage.

1,385,070. BITE-TAKING DEVICE. GORDON S. DAVIDSON, Sydney, New South Wales, Australia. Filed Dec. 16, 1919. Serial No. 345,255. 18 Claims. (Cl. 32—1.)



1. A bite-taking device comprising a frame having separate means adjustable to engage the roof and lower gums of the human mouth.

1,385,071. GRAIN-BEARDER. LLOYD N. DIBERT, San Francisco, Calif. Filed Feb. 12, 1921. Serial No. 444,526. 4 Claims. (Cl. 83—30.)

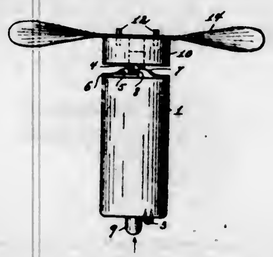


1. A grain-bearder comprising spaced heads having rabbet-shoulders; tie-plates rigidly connecting said heads; a sectional peripheral jacket extending between and resting on the rabbet-shoulders of the heads; straps embracing the jacket and detachably connected with the tie-plates; spikes carried by and extending from the tie-plates into the space inclosed by the jacket; a rotatable shaft mounted in the heads and passing through said space in the axis thereof; and spikes carried by said shaft.

1,385,072. METAL ALLOY AND PROCESS OF PRODUCING THE SAME. JAMES B. GRENAGLE, Catonsville, Md., assignor to The Rare Metals Reduction Company, Baltimore, Md., a Corporation of Maryland. Filed Dec. 24, 1919. Serial No. 347,064. 2 Claims. (Cl. 75—1.)

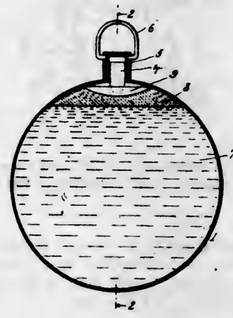
1. An alloy containing 60 to 90% molybdenum and 40 to 10% tantalum.

1,385,073. FLYING TOY. OTTO H. ELLER, New York, N. Y. Filed Nov. 22, 1919. Serial No. 339,806. 2 Claims. (Cl. 244—2.)



1. An apparatus of the kind described, comprising a barrel provided with a longitudinally arranged bore, a spiral spring located within the bore of said barrel, one end of which is secured to one end of said barrel and the other end of which extends above the other end of said barrel, a rod provided with a head at one end, said rod extending longitudinally through the spring and barrel and adapted to turn loosely therein, diametrically oppositely arranged pins secured in the said head, a propeller provided with apertures designed to be engaged by said pins, detachably secured to said head, an apertured disk provided with diametrically oppositely arranged teeth secured to the top of the barrel, a pin passing through the rod and located below the head to be engaged by the said teeth on the apertured disk.

1,385,074. CHEMICAL HEATER. GEORGE E. FERGUSON, New York, N. Y., assignor to Pyrene Manufacturing Company, a Corporation of Delaware. Filed July 10, 1917. Serial No. 179,670. 7 Claims. (Cl. 126—263.)



2. In a device of the class described, in combination with a container, a solution of a crystallizable salt and a sealing means in said container, said sealing means having substantially the same melting point as that of the salt solution but of less specific gravity and adapted to be melted upon application of heat thereto but adapted to solidify when cooled and hold said salt solution against agitation and prevent crystallization thereof regardless of the position of the container.

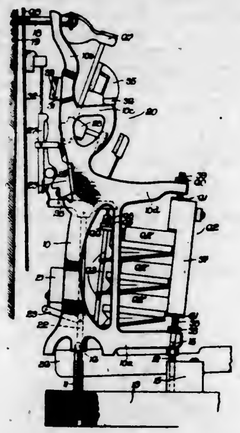
1,385,075. METHOD OF PREVENTING CRYSTALLIZATION OF A MELTED MASS OF CRYSTALS. GEORGE E. FERGUSON, New York, N. Y., assignor to Pyrene Manufacturing Company, a Corporation of Delaware. Original application filed July 10, 1917, Serial No. 179,670. Divided and this application filed Sept. 27, 1917. Serial No. 193,610. 15 Claims. (Cl. 252.)

1. The method of preventing crystallization of a melted mass of crystals which consists in causing said melted mass of crystals and a melted sealing substance of less specific gravity and adapted to solidify at normal temperature to be held while in heated condition in a container, and simultaneously cooling and causing a seal to be applied to said melted mass of crystals holding the same in melted form against relative movement in said container.

1,385,076. ACTION-BRACKET. AXEL G. GULBRANSEN, Chicago, Ill., assignor to Gulbransen-Dickinson Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 15, 1917. Serial No. 196,588. 8 Claims. (Cl. 84—28.)

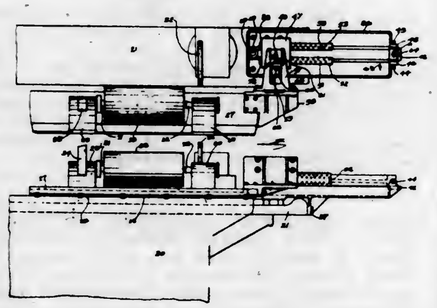
1. In a player piano, the combination of a bracket, said bracket being formed with a vertical body portion and two lateral members extending from said body portion, said body portion adapted to support a piano action, said lateral members adapted to support a pneumatic action positioned therebetween, adjustment means coöperating with

said bracket to adjust the position of the latter independently of the adjustment means of the pneumatic action and



adjustment means coöperating with said pneumatic action to adjust the pneumatic action relative to the piano action.

1,385,077. ROLL-GRINDER. SVEND HANSEN, Brooklyn, N. Y., assignor to Birmingham Iron Foundry, Derby, Conn., a Corporation. Filed Mar. 5, 1919. Serial No. 280,821. 7 Claims. (Cl. 51—49.)



1. A roll grinding machine, comprising a sliding carriage carrying a grinding wheel, a centrally mounted swinging table mounted adjacent to the sliding carriage, means for mounting a roll on said swinging table, means for revolving said roll, a crowning bar bracket connected with the sliding carriage, a crowning bar pivoted to the inner end of the crowning bar bracket, and means interposed between the said crowning bar and table to turn the table as the carriage moves.

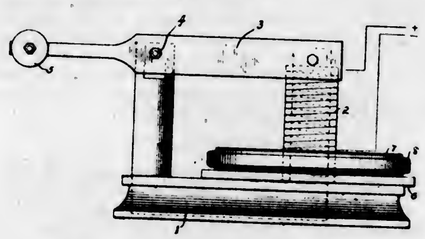
1,385,078. CAP-SPINNING FRAME. JOSEPH H. JONES, Winthrop, Mass., assignor of one-half to Robert Burgess, Newton Center, Mass. Filed Nov. 10, 1919. Serial No. 336,897. 3 Claims. (Cl. 118—62.)

1. In spinning devices of the revolving cap class, the combination with a revolving spinning element, of a cap mounted upon the blade or barrel of said element, revolved thereby and movable longitudinally thereof, and a wheel for said cap controlling the latter in the traverse movements, said cap and wheel having purely rolling peripheral contact between the tapering periphery of one thereof and



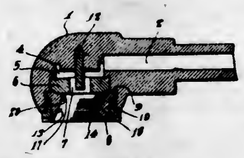
the periphery of the other, one of them being cone-shaped, and with a peripheral portion of the cap overhanging a peripheral portion of the wheel.

1,385,079. METHOD OF REMOVING TIRES FROM RIMS. ROBERT R. JONES, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Feb. 5, 1917. Serial No. 146,690. 2 Claims. (Cl. 157—6.)



1. The method of removing a rubber tire from a rim to which it has been vulcanized, which consists in passing an electric current through the rim, whereby the rim is heated and the rubber adjacent thereto is melted, and stripping the tire from the rim.

1,385,080. COUPLING. JAMES F. KEY, Sierra Madre, Calif., assignor of one-half to William A. Hayt, Los Angeles, Calif. Filed May 24, 1920. Serial No. 383,931. 9 Claims. (Cl. 284—17.)

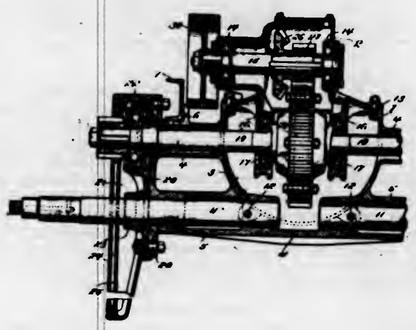


1. In an air hose coupling adapted for connection with a tire valve stem, a throat provided with an abutment and an opposed threaded wall, and an elastic washer for automatically binding the coupling against the stem.

1,385,081. COMPOUND AND METHOD OF PRODUCING SAME. VICTOR LENHER, Madison, Wis. Filed Aug. 4, 1920. Serial No. 401,218. 14 Claims. (Cl. 75—27.)

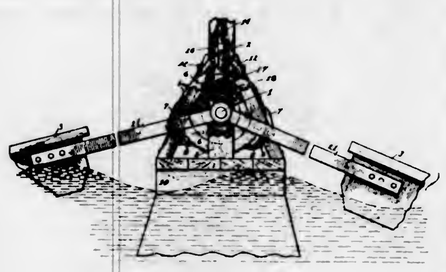
1. The method of producing a solution of a substance which comprises subjecting such substance to the action of selenium oxychlorid alone or compounded with a modifying agent.

1,385,082. REAR-AXLE ASSEMBLY. ALFONSO M. LEONI, Philadelphia, Pa., assignor, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md., a Corporation of Maryland. Filed July 19, 1919. Serial No. 311,914. 5 Claims. (Cl. 74—99.)



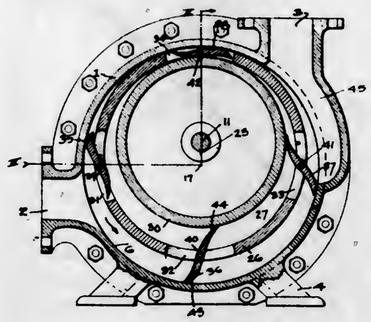
1. A rear axle assembly comprising a two-part housing, one part being formed with lateral sleeve extensions to receive the driving and dead axles, plates secured to such part, bearings for the driving axles arranged in such plates, and rings carried by such plates to receive dust-guard strips for coöperation with the wheels.

1,385,083. WAVE-MOTOR. THOMAS A. MCCULLEY, San Francisco, Calif. Filed May 29, 1920. Serial No. 385,383. 3 Claims. (Cl. 253—11.)



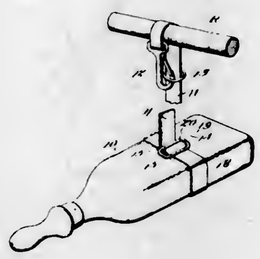
1. A wave motor comprising a power shaft; a pinion secured thereto; gears rotatably mounted adjacent said pinion and adapted to engage said pinion at opposing sides thereof, to drive said power shaft; oppositely acting ratchets rotatably mounted adjacent said gears and secured thereto; actuating arms pivotally mounted adjacent said ratchets; buoys engaging said actuating arms and adapted to oscillate said arms by the action of waves; and upwardly and downwardly acting pawls mounted upon said actuating arms and engaging said ratchets to impart a rotative movement to said ratchets when said actuating arms are actuated.

1,385,084. ROTARY ENGINE. JOHN M. MACFARLANE, San Francisco, Calif. Filed Jan. 28, 1920. Serial No. 354,628. 4 Claims. (Cl. 103—44.)



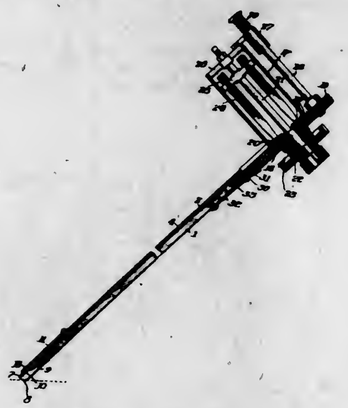
1. A rotary engine comprising a casing, a rotary vane guide in said casing, a rotor eccentric and approximately contacting with said casing and said guide; and vanes pivoted intermediate their ends in said rotor.

1,385,085. BOTTLE ATTACHMENT. FRANCIS J. MAHONEY, Edgewater, N. J. Filed Jan. 19, 1918. Serial No. 212,703. 1 Claim. (Cl. 248—65.)



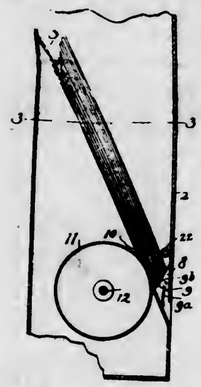
A bottle holder comprising a buckle having parallel slots providing a bar therebetween, a strip of elastic material having one end threaded through both of said slots across said bar, means located at the extremity of said end to prevent passage through the slot, the opposite end of the strip being also threaded through each of the slots and across the bar to provide a loop upon one side of the buckle for the reception of a bottle and loop upon the opposite side of said buckle and a ring threaded through said last mentioned loop to facilitate the adjustment of the loop.

1,385,086. HOLDER FOR RUBBER-HEEL WASHERS. HARVEY F. MARANVILLE, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 18, 1919. Serial No. 271,879. 18 Claims. (Cl. 18—1.)



1. A holder for washers or the like, comprising a body, a guide for the passage of the washers, an exit at the foot of said body and a flexible element located over and normally closing said exit.

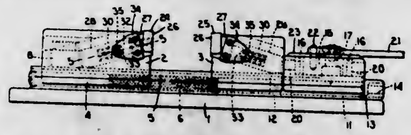
1,385,087. VENDING-MACHINE. GEORGE H. MATCHETT, Lakewood, Ohio. Filed Jan. 30, 1914. Serial No. 815,565. 7 Claims. (Cl. 211—8.)



7. In a periodical vending machine the combination with a magazine adapted to hold periodicals, said magazine having an opening through which a periodical may be extruded, means which when operated extrudes the periodical from the magazine, a pivoted member having a foot and an arm, the arm being engaged by a periodical as it is being extruded thereby moving the foot into engagement with the forward end of the periodical next to the periodical being extruded thereby preventing more than one periodical being extruded at an operation.

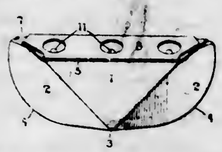
1,385,088. VISE. ALFRED S. MELLOR, Cambridge, Mass. Filed Apr. 18, 1918. Serial No. 229,240. Renewed May 27, 1921. Serial No. 473,047. 7 Claims. (Cl. 81—27.)

1. In a vise, the combination with two jaws, of means to move them toward and from each other, each jaw having a recess in its operative face, the top and bottom walls of which recess have a downwardly-inclined direction, a work-clamping member fitting the recess in each jaw and constructed to move backwardly and downwardly when pressure is applied thereto in a direction determined by the top and bottom walls of the recess, a guiding element rigid with each work-clamping member and extending rearwardly and downwardly therefrom through the corresponding jaw, each jaw having a guiding surface which coöperates with the corresponding guiding element throughout its length to hold the jaws against locking movement as they recede, and a spring acting on each work-clamping member and yieldingly resisting the receding movement thereof.



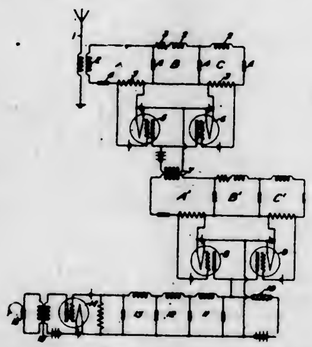
2. In a vise, the combination with two jaws, each having a recess in its operative face, of means to give said jaws a relative movement toward and from each other, a work-clamping member sustained in the recess of each jaw, each work-clamping member having a stem extending therefrom in a rearward and downward direction entirely through the jaw, each jaw having a guiding surface which engages the stem throughout its length, each work-clamping member being capable of moving downwardly and rearwardly in a direction determined by said stem, and a spring acting on each work-clamping member tending to yieldingly resist the receding movement thereof.

1,385,089. GARDEN-TOOL. ARTHUR MILLER, Brooklyn, N. Y. Filed June 13, 1919. Serial No. 303,963. 8 Claims. (Cl. 55—39.)



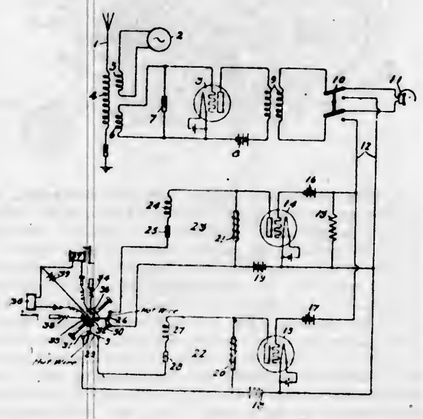
1. A garden tool comprising, a triangular blade having wings depending therefrom.

1,385,090. RADIO-RECEIVING SYSTEM. JOHN MILLS, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 19, 1916. Serial No. 79,441. 30 Claims. (Cl. 250—20.)



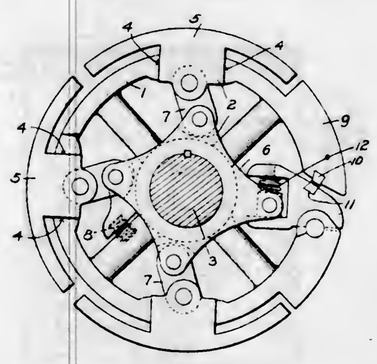
1. A radio receiving system comprising an antenna, selective means for progressively attenuating impressed alternating currents, said means including a series of circuit sections, and a detecting device differentially connected to two such sections.

1,385,091. SIGNALING. JOHN MILLS, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 25, 1916. Serial No. 122,070. 30 Claims. (Cl. 250—8.)



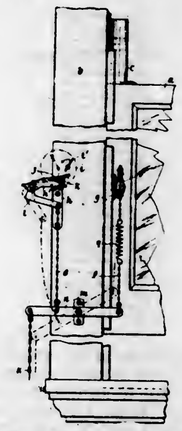
1. The method of eliminating interference which consists in translating the interfering energy into a plurality of integrated effects the time of integration being longer than the period of any audio-frequency signal oscillation to be received, modifying one of said integrated effects in accordance with the signals to be received, and in controlling a signaling device in accordance with said integrated effects.

1,385,092. REEL STRUCTURE. FRANK T. NEALE, Carnegie, Pa. Filed Dec. 3, 1920. Serial No. 427,982. 8 Claims. (Cl. 242—110.)



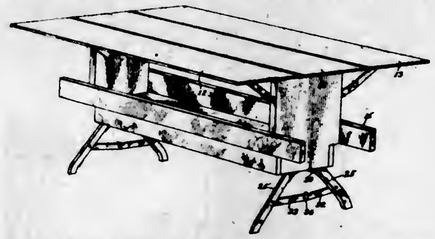
4. In a reel structure a cylindrical body provided with radial slots, a winding surface including drum segments with radial necks extensible in said slots, a member rotatable relatively to said cylindrical body and on a common axis with said cylindrical body and operative toggle connection between said rotatable member and said drum segments, substantially as described.

1,385,093. AUTOMATIC CLOSURE-CONTROLLING APPARATUS. GEORGE B. O'NEIL, Paterson, N. J. Filed Feb. 17, 1921. Serial No. 445,742. 7 Claims. (Cl. 161—1.)



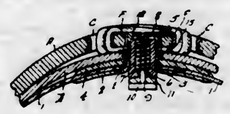
1. In combination, with supporting means, a controlling member having movement therein back and forth and its movement in one direction limited thereby, elastic trippable means normally holding said member at said limit, and time means for tripping said trippable means.

1,385,094. TABLE STRUCTURE. GEORGE H. PORTER, San Francisco, Calif. Filed June 10, 1920. Serial No. 387,878. 5 Claims. (Cl. 190—12.)



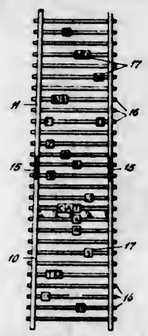
1. In a device of the character described, a table having a fixed central leaf, vertical panels rigidly secured to the opposite ends thereof, folding legs mounted beneath the vertical panels, a hinged leaf on each side of the fixed leaf and adapted to be folded down against the vertical panels and a bench, which, when inverted may be disposed with its legs extending alongside the vertical panels and between the overhanging ends of the hinged leaves.

1,385,095. INFLATABLE RUBBER ARTICLE. FRED THOMAS ROBERTS, Cleveland, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Original application filed Aug. 16, 1917, Serial No. 186,477. Divided and this application filed Apr. 3, 1919. Serial No. 287,288. 6 Claims. (Cl. 46—4.)



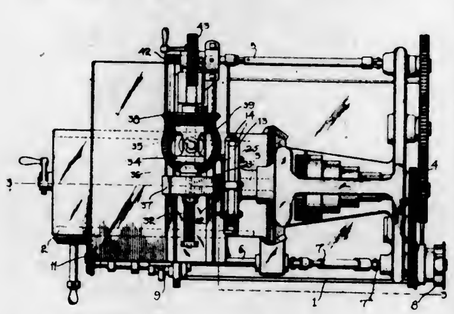
1. The combination of an air container having a rubber wall with an opening through it, two rubber patches secured respectively to the interior and exterior of said wall about said opening, one of said patches having a tubular flange, a valve body occupying said flange, and an elastic winding surrounding the flange and pressing it against the valve body.

1,385,096. EDUCATIONAL DEVICE. FRANCES AYERS RODDY, New York, N. Y. Filed Oct. 21, 1920. Serial No. 418,439. 3 Claims. (Cl. 35—9.)



1. An educational device in the form of a toy for small children comprising two sections foldably connected and adapted to be adjusted to an extended position to form continuations of each other, a plurality of rungs removably mounted upon said sections and located at spaced intervals lengthwise thereof, apertured members having designations produced thereon and adapted to be strung upon said plurality of rungs, said apertured members being adjustable on said plurality of rungs to group said designations in predetermined combinations and means for supporting the extended sections in an upright position.

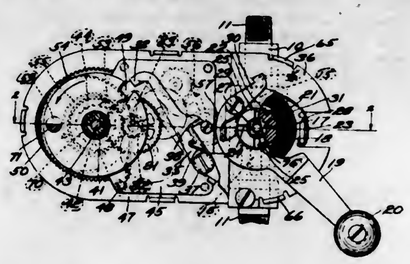
1,385,097. GEAR-MAKING MACHINE. HENRY J. SCHMICK, Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 10, 1918. Serial No. 266,139. 21 Claims. (Cl. 90—3.)



1. The method of generating helical mechanical elements consisting in moving successively a plurality of cutting tools in a straight line entirely across the full width of the blank operated upon and continually rotating the blank, the movement of the blank during the cutting period equaling half the circumferential distance between the centers of the teeth.

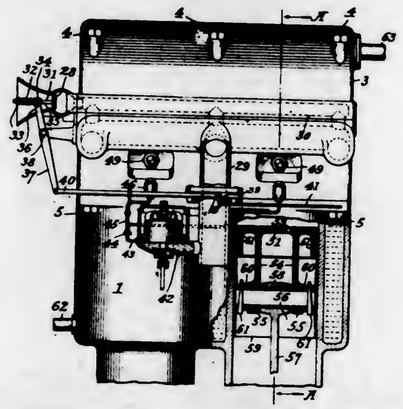
7. In a gear generating machine, for generating helical working elements, the combination of a rotary cutting head, a plurality of spaced tool holders rotatable with the head and movable for a predetermined distance in their travel in a straight line, a blank carrier, and means timed to move a blank on the carrier one half the distance between two adjacent elements, the space between the tools being such as to permit of the blank rotating the remaining distance between two elements before the succeeding cutter tool commences to perform its cutting operation on the blank.

1,385,098. SELECTIVELY-OPERABLE TIMING MECHANISM. RAYMOND D. SMITH, Arlington, Mass., assignor to Shawmut Machine Works, Inc., Boston, Mass., a Corporation of Maine. Filed Apr. 16, 1917, Serial No. 162,337. Renewed Aug. 12, 1919. Serial No. 317,100. 7 Claims. (Cl. 161—9.)



3. Time-controlled, tension-actuated mechanism, embodying an element to be controlled, arranged for limited rotary reciprocative movement; manually controlled means to establish the element under rotative tension; a projection extending from said element; a yielding detent free of connection to said element and to said projection, positioned to be engaged by the latter and adapted thereby to be displaced from the path of movement thereof, when said element is moving toward one extreme position thereof; and timing mechanism for said element, including a manually rotatable cam for governing said detent, power means adapted to impel said cam to an extreme and detent releasing position thereof and means positively to stop said cam at said position, the said cam being formed and coöperatively arranged to prevent yielding of said detent only when rotatively displaced from its releasing position; together with a time-indicating dial and a plurality of inter-geared pointer-hands arranged coöperatively therewith and with said cam for indicating the degree of rotary displacement of said cam from its said position, one of said hands being carried in fixed relation to said cam and another of said hands being adapted for manually operating said cam and arranged for higher rotative speed than the latter.

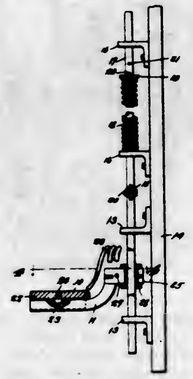
1,385,099. INTERNAL-COMBUSTION ENGINE. HARRY P. STEVENS, New York, N. Y. Filed July 8, 1919. Serial No. 309,327. 8 Claims. (Cl. 123—59.)



6. An internal combustion engine made in a plurality of detachable substantially parallel transverse sections

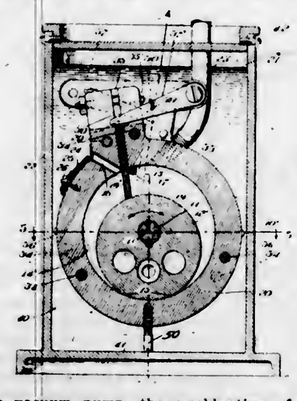
at right angles to the cylinders, one section comprising the cylinder head and complete inlet and exhaust ports and having a manifold thereon, and one section comprising a valve cover and having a manifold thereon, said sections having passages connecting said manifolds adjacent to said inlet ports.

1,385,100. CONTACT-SHOE. WELLINGTON B. SULLIVAN, Baltimore, Md. Filed Oct. 25, 1919. Serial No. 333,391. 10 Claims. (Cl. 191—49.)



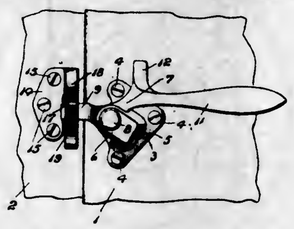
7. A current collector comprising a contact shoe adapted to run on a current conductor, and means for supporting the shoe to normally permit the same to tilt laterally and in the direction of the length of the current conductor.

1,385,101. VACUUM-PUMP. JOHN TWARDOWSKY, Chicago, Ill., assignor to Central Scientific Company, a Corporation of Illinois. Filed Sept. 12, 1919. Serial No. 323,274. 5 Claims. (Cl. 230—30.)



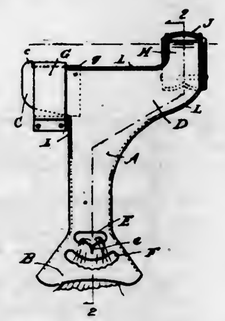
1. In a vacuum pump, the combination of a pair of cylinders arranged end to end and having an intervening wall, a shaft extending through them concentrically, rotors eccentrically mounted in the respective cylinders each having a relatively broad zone of contact with the interior of its cylinder, a single relatively thin blade slidable through the wall of each cylinder and contacting with the rotor said blades being spaced at different circumferential positions, an inlet to one cylinder on one side of its appropriate blade, an outlet from the other cylinder on the opposite side of its blade, there being a communication passage forming the outlet for the first said cylinder and the inlet for the second said cylinder opening through the intervening wall in the circumferential space between the blades and close to the respective appropriate sides of said respective blades, the inlet and outlet of each cylinder being within a zone no broader than the contact zone of the respective rotor.

1,385,102. LATCH. ALEXANDER F. WINTERS and BASIL R. CRAMPTON, Grand Rapids, Mich. Filed Dec. 7, 1920. Serial No. 428,891. 7 Claims. (Cl. 292—241.)



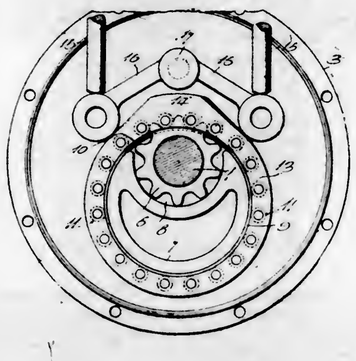
1. In combination, a door and a casing therefor, a keeper attached to the casing comprising a base, an outstanding post and a head at the outer portion of the post, said head depending below the post and formed with upper and lower curved outer sides coming substantially to a point and with an inner upwardly and inwardly inclined side, a member attached to the door comprising a base, an integral outstanding post projecting from the base and a laterally extending arm at the upper end of the post paralleling the base, and a latch lever pivotally mounted between its ends between the said arm and base of said member, said lever having one arm formed with an under cam side extending from the pivot and adapted to be engaged under the depending portion of the keeper, a handle portion extending in the opposite direction from the pivot and another arm projecting from the handle portion a distance from the pivot and lying substantially at right angles to the first arm of the lever and likewise being formed with an inner cam side, substantially as and for the purposes described.

1,385,103. TROUSERS-SUPPORTER. LEONARD WOODS, St. Louis, Mo. Filed Aug. 11, 1919. Serial No. 316,760. 6 Claims. (Cl. 24—81.)



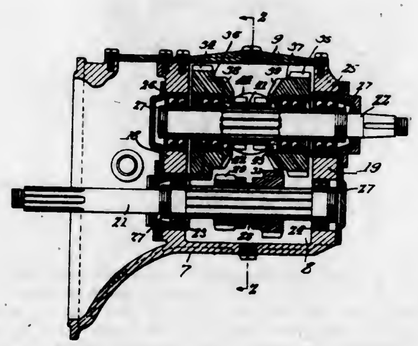
2. A device of the character described comprising a plate body having upper arms one of which is adapted to engage the trousers band and the other arm to engage means permanently attached to the trousers, and having a downwardly extending base adapted to engage the shirt of the wearer,—said base having two slots one above the other and one larger than the other, adapted to receive a folded tongue of the shirt passed below said base to the outside, then upward and through said slots in reverse directions to be held by frictional engagement with the edges of said slots,—a converging notch in the edge of one slot being adapted to pinch the tip end of the folded tongue.

1,385,104. VALVE-GEAR FOR MOTORS. ANGEL APANADOR, Lincoln, Nebr. Filed June 12, 1919. Serial No. 303,581. 3 Claims. (Cl. 123—96.)



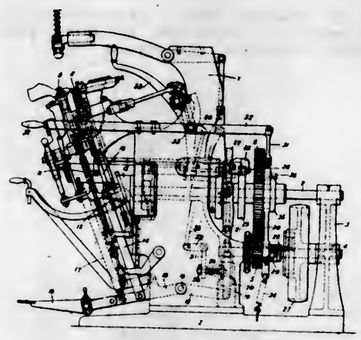
1. In a valve gear for internal combustion engines, the combination with a crank case having a removable end, a crank shaft passing across said crank case and through said end, and valve-operating rods extending into said crank case; of a fixed annular track within the crank case and carried by the inner side of said removable case end, said track surrounding said shaft eccentrically, an internal gear ring within said crank case and surrounding said track in running contact with the latter, a gear on said crank shaft within said crank case and meshing with said internal gear ring, and cams on said gear ring for actuating said valve-operating rods.

1,385,105. CHANGE-SPEED GEARING. AXEL HJ. ASPROOTH, Rockford, Ill., and ALFONSO M. LEONI, Dayton, Ohio, assignors, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md., a Corporation of Maryland. Filed July 2, 1919. Serial No. 308,075. 12 Claims. (Cl. 74—58.)



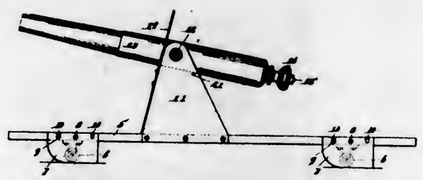
6. In a power transmission gearing, a driven shaft, independent gear elements thereon, a power shaft, a driving connection between said power shaft and both of said gear elements, a driving shaft, and means on said driving shaft to selectively engage either of said gear elements to thereby vary the speed of the power shaft.

1,385,106. PULLING-OVER MACHINE. CHARLES MARTIN BAGSHAW, Leicester, England, assignor to The Gimson Shoe Machinery Co. Limited, Leicester, England, a Corporation of Great Britain. Filed Dec. 20, 1919. Serial No. 346,341. 20 Claims. (Cl. 12—4.)



1. A pulling-over machine having upper gripping devices, a treadle to move said devices for stretching the upper, and power-driven means to move said devices for stretching the upper, said machine being constructed and arranged so that the movement of the upper gripping devices for stretching the upper may be effected partly by the treadle and partly by the power-driven means, or wholly by the treadle, or wholly by the power-driven means, for the purpose described.

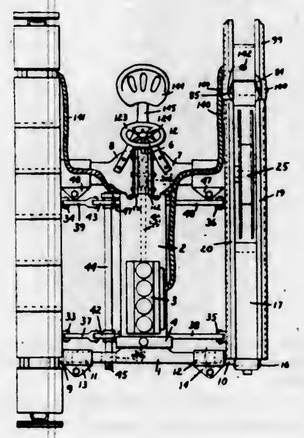
1,385,107. TOY PUSH-VEHICLE. FRANK R. BAIER, Chicago, Ill. Filed Jan. 28, 1918. Serial No. 214,168. 1 Claim. (Cl. 280—8.)



The combination with a device of the class described, of a base member upon which the user may ride; wheels rotatively mounted on said base member for engagement with the ground; and comparatively short runners adjustably mounted, pivotally, intermediate their ends at intervals on opposite sides of said base member, adapted, in one position, to contact with the ground, and adapted for adjustment to another position out of contact with the ground, said runners being adapted when in contact with the ground, to raise the periphery of said wheels free from any surface contact, each of said runners having a plurality of slots in the edge opposite the ground engaging edge; and means in said base member engaging in said slots to retain said runners in adjustable position, substantially as described.

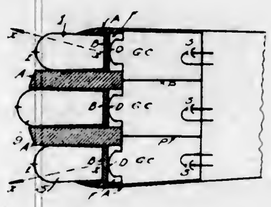
1,385,108. TRACTOR. JOHN BARLETTA, San Francisco, Calif. Filed July 8, 1919. Serial No. 309,505. 8 Claims. (Cl. 180—9.1.)

1. An endless tread tractor comprising a main frame, front and rear axles carried by said frame, laterally adjustable side frames carried by the axles, an endless tread carried by each of the laterally adjustable frames,



and means to rotate the rear axle to drive the endless treads.

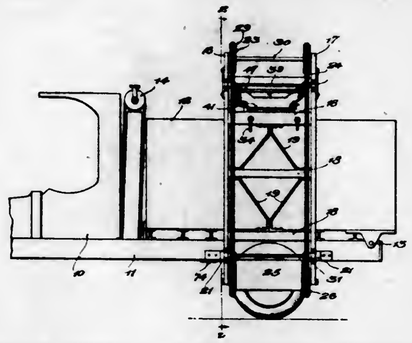
1,385,109. TORPEDO FOR TRANSPORTING AND FIRING EXPLOSIVES. WILLIAM RUSHTON BOWKER, Coronado, Calif. Filed Oct. 21, 1920. Serial No. 418,384. 4 Claims. (Cl. 114—20.)



1. The combination in a multiple torpedo, of a plurality of explosive receptacles containing an explosive agent, the said explosive receptacles being each provided with a detonating device; a plurality of gas explosive chambers provided with spark gaps and a puncture sealing cap, the said gas explosive chambers being filled with an energy propelling agent, an electrical induction sparking coil, an electrical battery, a multiple point timing contactor and electrical circuit connecting wires, all substantially as set forth.

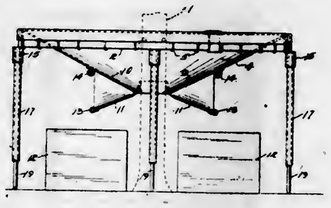
1,385,110. LOADING DEVICE. VERNON H. BROWN, New York, N. Y. Filed Nov. 30, 1920. Serial No. 427,448. 11 Claims. (Cl. 214—75.)

1. The combination with a vehicle having a material receiving bed, of a conveyer frame secured to the vehicle chassis and adapted to be moved toward and away from the receiving bed, a conveyer on said frame, means for operating said conveyer, and releasable means for holding said conveyer and its frame in position adjacent the



receiving bed whereby the conveyer may deposit material thereupon.

1,385,111. FRUIT-GATHERER. VICTOR BYMAN, Amity, Oreg. Filed June 19, 1918. Serial No. 240,763. 1 Claim. (Cl. 56—329.)

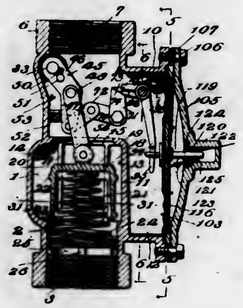


In a fruit gatherer, a circular frame formed of a single piece of material having its meeting edges strapped together, legs adjustably supporting said frame, a basket formed of flexible material having its outer edge secured to said frame and overlapping the same, the bottom of said basket sloping downwardly from its outer edge to its central portion, said basket being formed with a normally closed slit and with oppositely disposed central openings, oppositely disposed flexible chutes secured to said basket below the central openings therein and upon opposite sides of the center of the basket, said chutes opening in opposite directions, each chute in open position sloping downwardly in a direction opposite to the slope of the bottom side of the basket to which it is secured, each of said chutes in raised position being adapted to close one of said central openings, and means for retaining said chutes individually in raised position.

1,385,112. AUTOMATIC CUT-OFF VALVE. SELBY C. CARR, Oklahoma, Okla. Filed May 7, 1918. Serial No. 233,104. 64 Claims. (Cl. 137—92.)

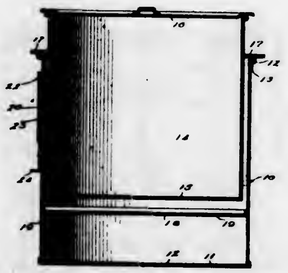
9. In an automatic cut-off valve of the class described, a casing having an inlet and an outlet, a valve in the casing, means tending to move the valve to closed position, means active to resist closing movement of the valve in the presence of fluid in the casing under degrees of pressure between a predetermined minimum degree and a predetermined maximum degree and arranged to be rendered inactive upon decrease in pressure below the minimum degree and upon increase of pressure above the maximum degree, local manually operable means for rendering the

resisting means inactive, means manually operable from a distance for rendering the resisting means inactive, and



thermostatic means arranged in the presence of abnormally high degrees of temperature to render the said resisting means inactive.

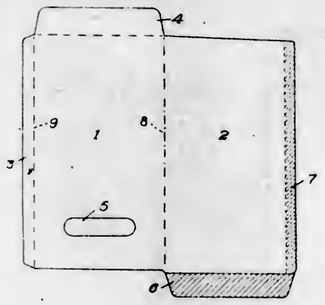
1,385,113. HOT-AIR CANDY-COOKER. ELIZABETH AGNES CASEY, Pittsburgh, Pa. Filed Mar. 1, 1921. Serial No. 448,943. 2 Claims. (Cl. 53—1.)



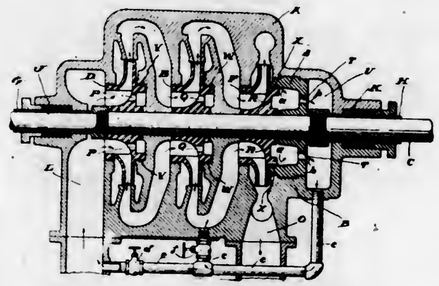
1. A candy cooker comprising an outer casing having an apertured base and an apertured bottom plate spaced above the base and both extending entirely across the casing with their apertures disalined, and a receptacle depending into the casing, having a removable cover and means engaging the casing and supporting the base of the receptacle in spaced relation above the bottom plate of the casing, said casing being of greater diameter than the receptacle whereby a space is formed therein around the receptacle and also having manually controlled heat outlet means located therein above the base of the receptacle as described.

1,385,114. DOUBLE ENVELOP. CHARLES E. CATHER, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Filed Dec. 16, 1919. Serial No. 345,393. 2 Claims. (Cl. 229—72.)

1. A two compartment envelop formed from a single blank comprising a body portion, provided with an ungummed closing flap at one of its ends, a side flap of the same width and length as the body portion, provided with a gummed closing flap at its end opposite the closing flap of the body portion, a narrow side flap on the opposite side of the body portion, said side flaps being folded on said body portion and united at their edges to form a tubular inclosure open at its ends, folding said tubular compartment transversely near one of its ends to bring the gummed surface of said gummed closing flap outermost, thereby forming two compartments of unequal size, with the larger compartment provided with an ungummed closing flap and the smaller compartment having a gummed closing flap, and with said compartments united by adhesive material.



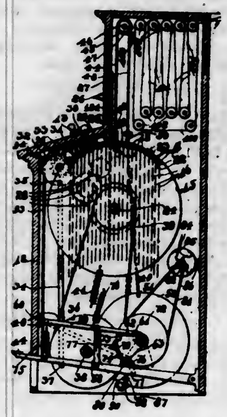
1,385,115. CENTRIFUGAL PUMP. JOSEPH D. CONE, Montclair, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 13, 1920. Serial No. 403,335. 2 Claims. (Cl. 253—188.)



1. In a centrifugal pump, the combination of a casing having inlet and discharge sides and at least one single suction impeller, a stationary portion of the casing structure located within the discharge side being provided with permanent continuously open relief apertures affording continuous communication between the interior of the pump and a relief chamber within the end of the casing, a connection between said relief chamber and a point in the pump at a lower pressure, and means for controlling the flow of fluid through said connection, whereby the thrust tending to force the impeller toward the inlet side of the pump is relieved.

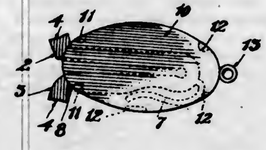
1,385,116. INFORMATION STORING AND DISPLAYING DEVICE. WILLIAM C. CUTLER, North Glendale, Calif. Filed Mar. 16, 1921. Serial No. 452,698. 13 Claims. (Cl. 40—65.)

1. In a device of the class described, a series of cards, a pair of circular card carrying members having pocket like notches in their outer edges to retain the cards at a lower than horizontal position of the notches, said cards having means to engage in the notches of the card carrying members, a foot lever, a rotary hand lever having means operative to bring any of the cards into selective position, means operative by the foot lever to lift the selected card from the circular card carrying members into



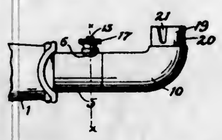
view position, and means for retarding the action of said foot lever and restoring the same to its starting position.

1,385,117. SAFETY-CLASP. JULIUS DINHOFER, New York, N. Y. Filed Mar. 2, 1921. Serial No. 449,118. 5 Claims. (Cl. 24—230.)



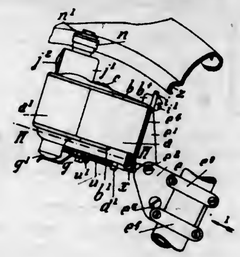
1. A device of the class described comprising a casing, a locking member slidable within the same, said locking member having a pair of spring arms and a spring tongue extending for a distance co-extensive with one of said arms, and a member in said casing around which said spring tongue engages.

1,385,118. SOUND-BOX MOUNTING FOR TALKING-MACHINES. JAMES C. DRAKE, Rochester, Minn., assignor to Sears, Roebuck and Company, Chicago, Ill., a Corporation of New York. Original application filed Apr. 17, 1917. Serial No. 162,747. Divided and this application filed Feb. 19, 1920. Serial No. 359,947. 1 Claim. (Cl. 274—24.)



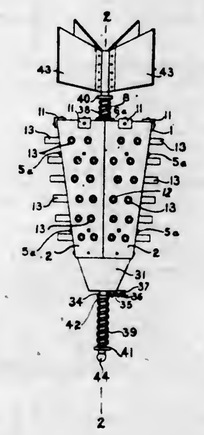
A coupling for sound boxes of talking machines comprising a slotted tubular female member carrying a convex stud on each side of the slot, a male member carrying a radial screw passing into said slot and lying in the axis of said stud, and a traveling nut on said screw with a concave inner face to engage both sides of the stud when the nut is screwed home to wedge them together so as to tighten the grip of the female member on the male member, and at the same time to lock the parts against any endwise movement with respect to the slot.

1,385,119. MAGNETO-ELECTRIC GENERATOR FOR LIGHTING VEHICLES. CHARLES FREDERIC DUFAUX, Geneva, Switzerland. Filed Nov. 13, 1918. Serial No. 262,308. 2 Claims. (Cl. 171—313.)



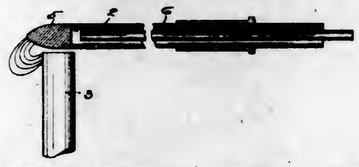
1. A magneto electric generator for lighting vehicles comprising a permanent magnet, a semi-circular non-magnetic plate connecting the poles of the magnet, side plates secured to the said permanent magnet and the said semi-circular plate to form a dust-proof casing, an armature shaft journaled in the said side plates and extending through the journal in one of the side plates, means carried by the armature shaft for contacting with the rim of a vehicle wheel, a rod journaled in the other side plate and upon which the generator is adapted to turn, and a spring associated with the said rod and adapted to exert a tension against the generator to maintain the means on the end of the armature shaft in contact with the rim of the vehicle wheel.

1,385,120. MULTIPLE-GUN-FIRING APPARATUS OR BOMB. GUNNER A. EKMAN, Winchester, Mass. Filed Dec. 12, 1918. Serial No. 266,477. 51 Claims. (Cl. 89—1.)



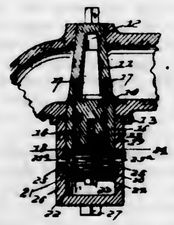
18. A multiple gun firing apparatus or bomb comprising a structural frame consisting of a top and bottom plate and supporting rods and having sectional side plates attached thereto, a plurality of guns mounted securely in the said side plates, and a slidable rod operating in the said structural frame and being provided with a series of radially extending firing control rings.

1,385,121. ARC-RADIO-OSCILLATION GENERATOR. HAROLD F. ELLIOTT, Palo Alto, Calif., assignor to Augustus Taylor, San Francisco, Calif. Filed Mar. 23, 1920. Serial No. 368,194. 3 Claims. (Cl. 250—36.)



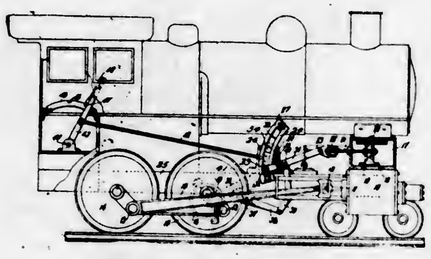
3. In an arc radio generator, a metallic anode having a cylindroconoidal tip and a cathode arranged at right angles to the anode, with the end of the cathode adjacent the tip.

1,385,122. DOUBLE-PRESSURE VENT-VALVE FOR ANGLE-COCKS. ROBERT L. EVANS, Roanoke, Va. Filed Aug. 18, 1920. Serial No. 404,310. 13 Claims. (Cl. 277—64.)



1. The combination with a hollow member adapted to contain fluid under pressure and having a rotatable valve therein in one position permitting passage of fluid and in the other position preventing passage of fluid through the hollow member, of a a vent valve yieldably urged to its seat but opening to permit the escape of fluid from the hollow member on both sides of the rotatable valve when the rotatable valve is turned to a position to prevent the passage of fluid through the hollow member.

1,385,123. LINK GEAR. ROBERT FLOURNOY, Seven Oaks, Tex. Filed Jan. 16, 1917. Serial No. 142,709. 1 Claim. (Cl. 121—170.)

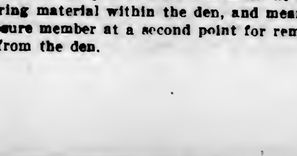


In a locomotive, box links disposed at an angle to each other, each link having a first section and a second section, spacing means intermediate the sections, fastening means removably extending through the sections and spacing means, pivot members extending from the first sections, means to mount said pivot members, the second sections having elongated slots extending on opposite sides of the axis line of the pivots, links, said links being bifurcated, one of said links at the bifurcated portion receiving one of the second sections, the other link at the bifurcated portion receiving the other second section, said links thus being mounted against lateral movement and being capable of movement past said axis line, removable fastening means extending through said slots and the bifurcated portions, power-controlled mechanism operable through movement of the links, cranks extending from the pivot means, means to move the cranks, and manually operable link mechanism connected to the links.

1,385,124. PROCESS OF BASE-EXCHANGING. WOLCOTT C. FOSTER, Rutherford, N. J. Filed Jan. 18, 1917. Serial No. 143,015. 6 Claims. (Cl. 23—13.)

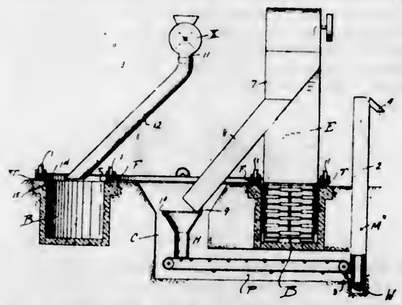
1. The process of regenerating base-exchanging materials used in the softening of water which comprises interrupting the flow of the water to be softened, passing a regenerating material through the base-exchanging materials in a direction opposite to that of the flow of water to be softened, washing the base-exchanging materials and renewing the flow of the regenerating material in the same direction as previously employed.

1,385,125. DOOR-FASTENER. JOHN GEORGE FRASER, Hamilton, Ontario, Canada, assignor of one-half to Garfield I. Evans, Hamilton, Canada. Filed May 1, 1920. Serial No. 378,188. 2 Claims. (Cl. 292—350.)



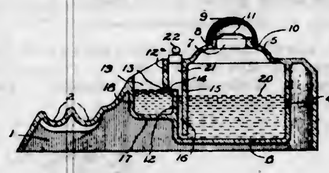
1. In a door fastener the combination with a spindle divided longitudinally into two parts, one of said parts having a plurality of screw-threaded openings in close proximity to each end thereof; of knobs adapted to be mounted upon the ends of said spindle, each knob being chambered to receive the end of the spindle upon which it is to be mounted and having a lateral opening registering with one of the said screw-threaded openings, and means for fastening each knob in position upon the spindle, said means consisting of a screw projecting through said lateral opening and the screw-threaded opening registering therewith, said screw being adapted to separate the parts as it is tightened.

1,385,126. APPARATUS FOR THE MANUFACTURE OF ACID PHOSPHATE. RALPH T. GASTON, Greensboro, N. C. Filed Mar. 27, 1920. Serial No. 369,214. 6 Claims. (Cl. 214—16.)



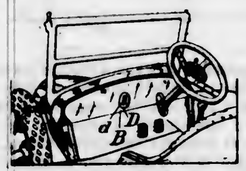
1. An apparatus of the kind described comprising a stationary circular den, said den having its upper face open, a revolving closure member for said open face of the den, means carried by the closure member at one point for delivering material within the den, and means carried by the closure member at a second point for removing the material from the den.

1,385,127. LIQUID-DISPENSER. JOSEPH ANTHONY GOOD, Chicago, Ill. Filed May 16, 1916. Serial No. 97,819. 1 Claim. (Cl. 120—69.)



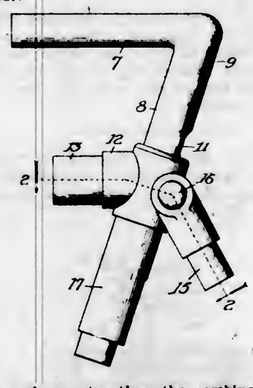
A device of the class described, comprising a reservoir, and a receptacle, a supply duct connecting the reservoir with said receptacle and provided with an inlet port leading to the top of the receptacle and an outlet port leading to the bottom of the receptacle, a single valve mounted in the duct adapted to close both ports or open one at will, and means to cause the contents of the reservoir to flow into the receptacle.

1,385,128. OIL-INDICATOR FOR MOTOR-VEHICLES. FRANK HENRY GUYVER, Stratford-on-Avon, England. Filed July 30, 1920. Serial No. 400,048. 1 Claim. (Cl. 116—117.)



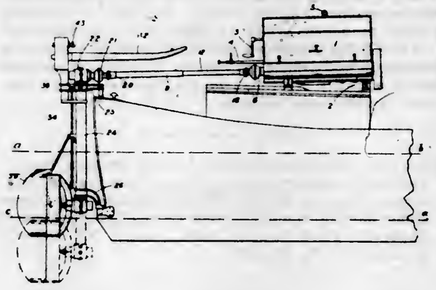
An oil indicator comprising a casing having internal guides, an opaque member closing said casing and having an opening therein, a self-luminous member having linear movement within said guides behind and relatively to said opaque member, and a spring plunger operatively connected with said self-luminous member and in constant subjection to the influence of the oil pressure, substantially as set forth.

1,385,129. CYCLE CONSTRUCTION. ROSCOE S. HEISE, Middletown, Ohio, assignor to The Miami Cycle & Mfg. Co., Middletown, Ohio, a Corporation of Ohio. Filed Dec. 18, 1919. Serial No. 345,897. 7 Claims. (Cl. 208—131.)



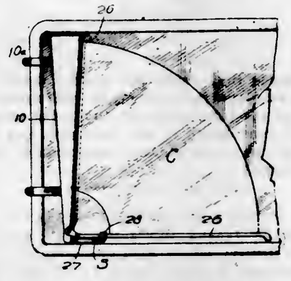
3. In a cycle construction, the combination of a split cluster fitting, a seat-post extending into said fitting and having a flat portion, and a pinch bolt on said fitting extending transversely of said post and positioned to engage said flat portion.

1,385,130. POWER DRIVING MECHANISM FOR CANAL AND OTHER BARGES. ARTHUR EDWARD HOOKE, Birmingham, England. Filed Aug. 14, 1917. Serial No. 186,183. 2 Claims. (Cl. 115—18.)



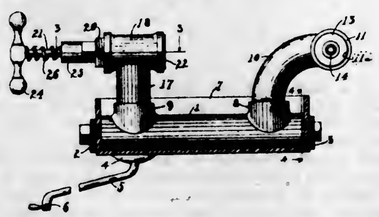
1. A power-propelling mechanism including a propeller, a vertically extending telescopic driving shaft therefor, a housing for said propeller, an arm having one of its ends secured to such housing, its opposite end terminating in a block formed with an internally screw threaded opening, a screw threaded rod passing through said opening, and means for turning said rod.

1,385,131. GLARE-SHADE FOR AUTOMOBILES. ELLA HORN, Rifle, Colo., assignor of forty-nine one-hundredths to Albert R. Gwynn, Los Angeles, Calif. Filed Sept. 15, 1920. Serial No. 410,395. 5 Claims. (Cl. 296—97.)



1. In a glare shade for wind shields, supporting means adapted for attachment to a wind shield, a tapered roller, an arcuate curtain wound upon the roller and having one end secured thereto, and means for automatically rotating said roller to wind the curtain thereon.

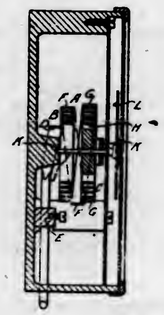
1,385,132. OIL-BURNER. HARRY E. HUNTER, San Jose, Calif. Filed Feb. 20, 1920. Serial No. 360,109. 3 Claims. (Cl. 158—53.)



2. A fuel-oil burner including a secondary vaporizing chamber, a fuel nozzle operatively erected thereon in sub-

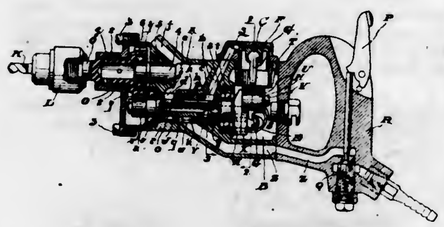
stantially parallel relation thereto and communicating therewith, a primary vaporizing chamber angularly positioned with relation thereto and adjacent the forward end thereof, a member connecting said primary and secondary vaporizing chambers to form open communication therebetween, said member flaring outwardly at both sides to form an oblong orifice at its point of communication with said primary chamber, and an oil feed pipe operatively mounted in said primary vaporizing chamber and provided with a plurality of orifices in that portion thereof positioned within said chamber.

1,385,133. BOURDON TUBE. HAROLD WILLIAM IBBOTT, London, England, assignor to Henry Noel Negretti, Paul Ernest Negretti, Marcus William Zambra, and George Julius Zambra, trading as Negretti and Zambra, London, England. Filed Jan. 12, 1921. Serial No. 436,849. 3 Claims. (Cl. 73—109.)



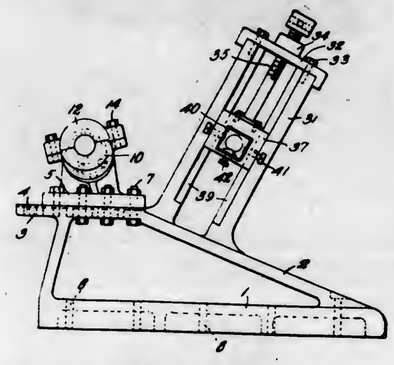
1. A Bourdon tube wound into coaxial double involute coils, an anchorage for the inmost convolution of one involute coil, the outmost convolution being connected to the outmost convolution of the other coil, and a pointer to which the end of the inmost convolution of the second coil is connected.

1,385,134. FLUID-ACTUATED ROTARY TOOL. FRANCIS A. JIMERSON, Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 1, 1920. Serial No. 407,504. 5 Claims. (Cl. 121—33.)



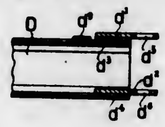
1. In a rotary tool, the combination of a case, a fluid actuated motor having a plurality of radially arranged cylinders in said case, a forwardly extending crank connected to be driven by said motor and having a hollow portion, a valve bushing in the case over said hollow portion of the crank, a motive fluid supply passage in the case leading to an admission port located at a point intermediate the length of the bushing, motive fluid passages leading from the cylinders to supply ports in the bushing located rearwardly of the said admission port, an exhaust port in the bushing, a peripheral passageway in the crank for controlling the distribution of motive fluid to the passages leading to the cylinders, and ports in the crank for permitting the cylinders to exhaust through the hollow portion of the crank.

1,385,135. ADJUSTABLE-CHAIN OIL-BEARING. HARRY A. JONES and EDWARD W. STRUVE, Parsons, Kans. Filed Jan. 3, 1919. Serial No. 269,440. 2 Claims. (Cl. 64—52.)



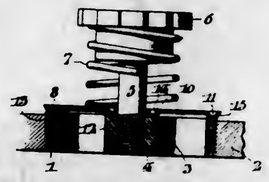
1. The combination of a quadrangular frame having one side parallel to its base and another side at an acute angle thereto, a main bearing mounted on the first mentioned side, an idler frame mounted on the second mentioned side so as to be at right angles thereto, and an idler bearing mounted in the idler frame.

1,385,136. FOUNDATION FOR GUNS. ALFRED KISTNER and KARL STRATOMEYER, Essen, Germany, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,389. 4 Claims. (Cl. 89—40.)



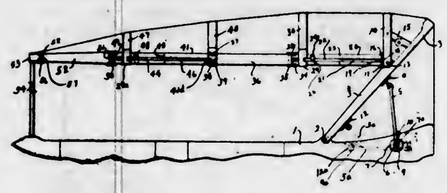
2. A foundation for guns which comprises girders disposed in the form of a cross, said girders being box-shaped in cross section, means for detachably uniting said girders, and means disposed between said girders and forming a track surface, for bracing the same and retaining them in their proper positions.

1,385,137. VALVE. GEORGE J. KAUFFMANN, Easton, Pa., assignor of one-half to Maurice F. Richardson, Cynwyd, Pa. Filed Aug. 22, 1919. Serial No. 319,048. 10 Claims. (Cl. 251—145.)



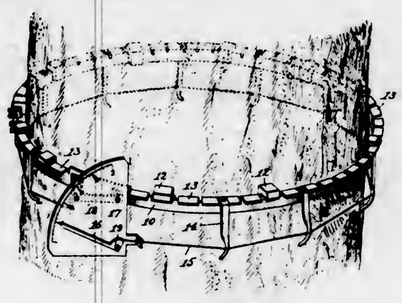
1. The combination of a pump valve seat with inner and outer annular seat surfaces; a guide member; and a thin, light guide-apertured metal disk valve for said seat reinforced and stiffened with outstanding annular contact zone portions for coacting with the aforesaid annular seat surfaces; said valve being loose on said guide member and free to rock with reference thereto and to its seat.

1,385,138. VEHICLE-TOP FRAME. EDWARD LOVER, Buffalo, N. Y., assignor to Lover Top and Converter Co., Inc., Buffalo, N. Y., a Corporation of New York. Filed Mar. 14, 1919. Serial No. 282,694. 5 Claims. (Cl. 296—116.)



2. In a vehicle top frame adapted to support a covering over a vehicle, jointed beam members extending lengthwise of said frame and forming the sides thereof, an auxiliary arm pivoted to each of a pair of opposite beam members, midway of the ends thereof and having a swinging end beyond said last mentioned beam member, and a rigid cross beam forming a partial support for said covering having its ends pivotally connecting with said auxiliary arms.

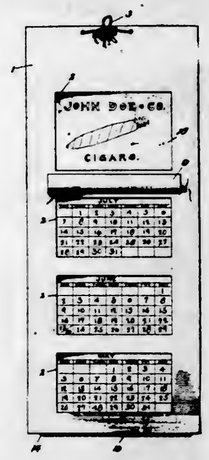
1,385,139. TREE-GROWTH-MEASURING INSTRUMENT. DANIEL TREMBLY MACDOUGAL, Tucson, Ariz. Filed Dec. 13, 1920. Serial No. 430,305. 7 Claims. (Cl. 33—179.)



1. In an instrument of the class set forth, a tree-trunk girdle and means for clamping it adjustably to the trunk, and means carried thereby for indicating the diametrical growth of the trunk, said last-named means functioning independently of the expansion or adjustment of the girdle.

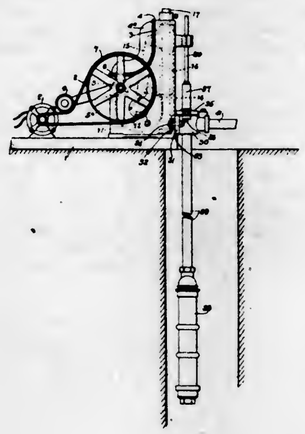
1,385,140. CALENDAR. THOMAS T. MARTIN, Mobile, Ala. Filed Dec. 30, 1920. Serial No. 434,069. 4 Claims. (Cl. 40—116.)

3. In a calendar, the combination of a frame having a plurality of display openings therein and having a slot formed therethrough between two of said openings, means for supporting a rolled portion of a display strip upon one side of the frame over the said slot, a display strip having its inactive portion rolled and housed within said supporting means with its active portion extending through the said slot, and a tension device upon the frame above the uppermost opening, the display strip having announcements upon both faces and being extended



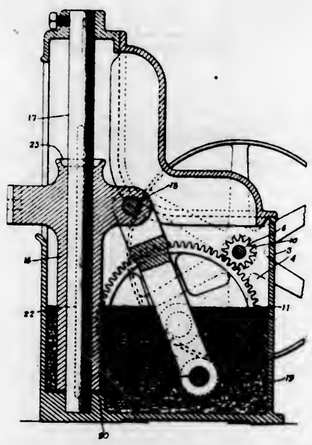
from the slot up to and over said tension device and then from said tension device to the lower end of the frame.

1,385,141. POWER-HEAD. PHILIP A. MYERS, Ashland, Ohio, assignor to F. E. Myers and Brother, Ashland, Ohio, a Copartnership consisting of Francis E. Myers and Philip A. Myers. Filed Jan. 16, 1920. Serial No. 351,966. 7 Claims. (Cl. 103—65.)



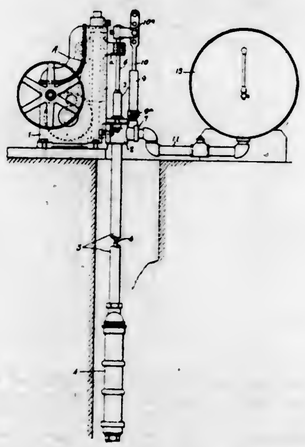
1. In a pumping apparatus, the combination of a power head having oppositely disposed substantially vertical base flanges, and a pump head having substantially vertical flanges corresponding to the flanges of the power head casing, whereby the pump head may be detachably mounted relative to the power head casing in a substantially vertical plane and the pump mechanism alined with the power head actuating mechanism.

1,385,142. POWER-HEAD. PHILIP A. MYERS, Ashland, Ohio, assignor to F. E. Myers and Brother, Ashland, Ohio, a Copartnership consisting of Francis E. Myers and Philip A. Myers. Filed Jan. 16, 1920. Serial No. 351,967. 13 Claims. (Cl. 184—27.)



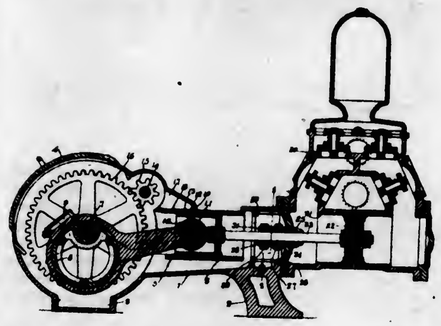
10. In a power head, the combination, with a gear casing and actuating mechanism mounted therein, of a guide shaft, a slide connected to said actuating mechanism and having reciprocating movement on the guide shaft, and an oil well adapted to be entered by an end of said slide, whereby oil will be forced to the slide and said guide shaft.

1,385,143. PUMPING APPARATUS. PHILIP A. MYERS, Ashland, Ohio, assignor to F. E. Myers and Brother, Ashland, Ohio, a Copartnership consisting of Francis E. Myers and Philip A. Myers. Filed Jan. 19, 1920. Serial No. 352,319. 2 Claims. (Cl. 103—79.)



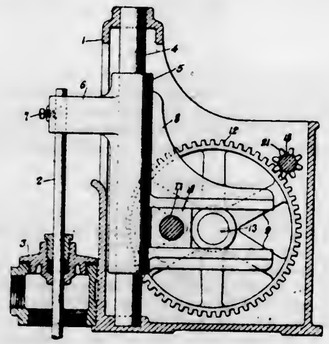
2. In a pumping apparatus, the combination, with a power head including a casing in which the power mechanism is housed, of a pump head detachably secured to a vertical face of said casing, a drop pipe secured to the lower part of the pump head and carrying a lower cylinder, an upper cylinder and an air cylinder carried by upper portions of the pump head, a piston rod common to the lower and upper water cylinders and another piston rod for the air pump cylinder, and connections between said piston rods and an operating arm of the power mechanism.

1,385,144. SELF-OILING POWER-PUMP. PHILIP A. MYERS, Ashland, Ohio, assignor to F. E. Myers and Brother, Ashland, Ohio, a Copartnership consisting of Francis E. Myers and Philip A. Myers. Filed Nov. 13, 1919. Serial No. 337,644. 4 Claims. (Cl. 184—11.)



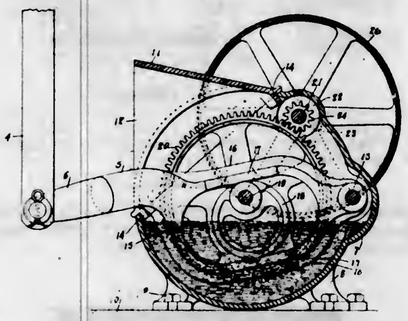
3. In a power head, the combination with a gear casing adapted to contain a supply of oil, a pump adapted to be arranged in operative relation to said power head, a stuffing box interposed between said pump and the gear casing and a piston rod operating through said stuffing box, of a receptacle for liquid arranged adjacent the stuffing box and between the pump and the gear casing, and means to conduct liquid escaping through the stuffing box from the pump casing into said receptacle, one of whose walls is lower than the wall dividing it from the gear casing whereby the liquid may automatically escape and overflow into the gear casing is prevented.

1,385,145. POWER-HEAD. PHILIP A. MYERS, Ashland, Ohio, assignor to F. E. Myers and Brother, Ashland, Ohio, a Copartnership consisting of Francis E. Myers and Philip A. Myers. Filed Sept. 27, 1920. Serial No. 413,021. 4 Claims. (Cl. 74—14.)



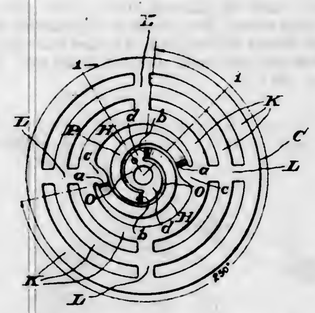
1. In a power head the combination with a casing adapted to contain a quantity of lubricant and rotatable operating mechanism therein, of an actuating reciprocating sleeve member operable in the lubricant contained within the casing, integral slides extending from said member and a bearing block mounted in the slides and adapted to be actuated by the rotatable operating mechanism.

1,385,146. POWER-HEAD. PHILIP A. MYERS, Ashland, Ohio, assignor to F. E. Myers and Brother, Ashland, Ohio, a Copartnership consisting of Francis E. Myers and Philip A. Myers. Filed Sept. 27, 1920. Serial No. 413,022. 5 Claims. (Cl. 74—56.)



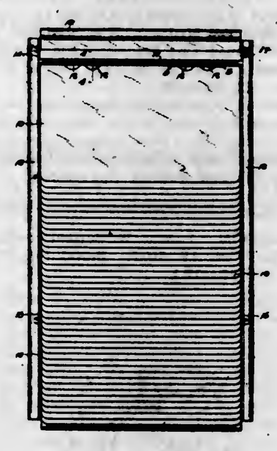
5. In a power head, the combination with a casing having bearings for shafts and adapted to contain operating mechanism and a quantity of lubricant and having an open portion and having an open side, of a walking beam projecting through and beyond the casing and attached to a pump standard, said beam being actuated by the operating mechanism contained within the casing.

1,385,147. PLATE-VALVE. WILLIAM PRELLWITZ, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 12, 1920. Serial No. 373,238. 10 Claims. (Cl. 251—119.)



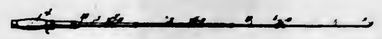
1. A sheet metal valve comprising a central portion, a continuous ring portion forming a valve plate adapted to seat over ports in a valve seat, and a plurality of nested integral spiral guide arms connecting said central and ring portions and adapted to lie wholly within the ring portion of the valve over the central unported area of a valve seat and function solely as guides in contradistinction to valve plates, the spiral curve of each of said guide arms being of sufficient length to subtend angles greater than 180° at the center of the valve.

1,385,148. FILING AND INDEXING EQUIPMENT. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 2, 1918. Serial No. 260,847. 10 Claims. (Cl. 129—16.)



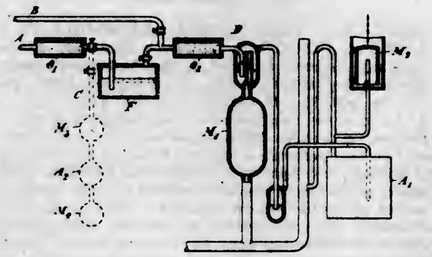
4. In a device of the character described, the combination of a tubular sheet-holder provided with a longitudinal slot, and a sheet received in said slot and having projections extending from opposite faces thereof within said sheet-holder.

1,385,149. STEEL FISHING-ROD. HOMER E. RAWSON, Chicago, Ill. Filed Mar. 21, 1921. Serial No. 454,068. 4 Claims. (Cl. 43—18.)



3. A fishing rod comprising a handle and a plurality of sections made of steel, said sections being adapted to be connected to one another and to the handle in a longitudinal series and being formed in progressively increased lengths.

1,385,150. GAS-ANALYZING APPARATUS. OLOF RODHE, Stockholm, Sweden, assignor to Svenska Aktiebolaget Mono. Filed June 8, 1918. Serial No. 238,991. 4 Claims. (Cl. 23—3.)



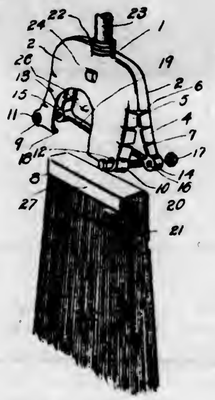
1. Gas-analyzing apparatus, characterized thereby, that in front of the gas-analyzing apparatus proper, provided

with absorption and measuring vessels, two furnaces for oxidation are arranged, an absorption receptacle with hydrate of potassium being arranged between the two furnaces.

1,385,151. ELECTRIC BATTERY AND METHOD OF PREPARING MANGANESE MATERIAL THEREFOR. OTTO E. RUHOFF, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Filed Feb. 26, 1919. Serial No. 279,404. 4 Claims. (Cl. 204—38.)

1. The method of preparing manganese for use as a battery material consisting in first roasting it at or above a visible red heat, then, after cooling, dissolving out all that a dilute acid, such as sulfuric or muriatic, will take up, then filtering and washing the residue.

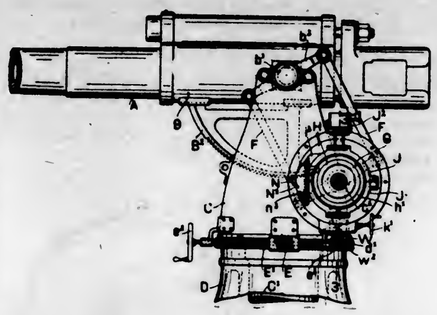
1,385,152. BROOM. DANIEL W. SCHENCK, Kansas City, Kans. Filed Oct. 18, 1919. Serial No. 331,616. 3 Claims. (Cl. 15—19.)



1. In a broom head, a hollow member having a handle-receiving neck, the lower end of the member being slitted to provide flexible jaws, inturned, spaced flange members along the ends of the flexible jaws, movable apart when the jaws are expanded and movable together when the jaws are in clamping position, and means for drawing the flexible jaws together.

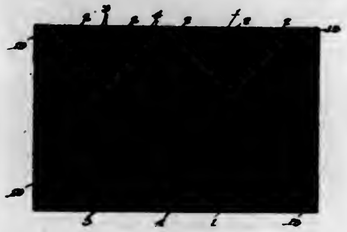
1,385,153. GUN WITH BARREL ADJUSTABLE IN A LATERAL DIRECTION. LEOPOLD SCHMIDT, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,386. 11 Claims. (Cl. 89—41.)

1. A gun of the class described comprising a gun barrel, a pedestal, a carriage for said gun barrel rotatably supported on said pedestal, a sighting telescope supported by said carriage, said sighting telescope being rotatable in its support, an operating member mounted on said carriage, a second operating member mounted on the support for the sighting telescope, gearing for rotating said sighting telescope, a traversing gear for the gun barrel, means operatively connecting the first mentioned operating member to the traversing gear and to the sighting telescope gear, means connecting the second operating member to the sighting telescope gearing whereby the gun barrel and sighting telescope may be traversed simultaneously through the same angle but in opposite directions, when



the second operating member is held stationary and the first operating member is rotated.

1,385,154. TOY BUILDING-BLOCK. WILLIAM SCOTT SHIELDS, Trenton, N. J. Filed Mar. 8, 1920. Serial No. 363,970. 6 Claims. (Cl. 46—35.)



3. A block having longitudinal grooves on one face and tongues at its ends, and having cross grooves on the other face.

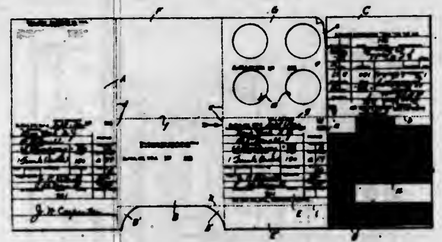
1,385,155. TOY BUILDING-BLOCK. WILLIAM SCOTT SHIELDS, Yardley, Pa. Original application filed Mar. 8, 1920, Serial No. 363,970. Divided and this application filed June 22, 1920. Serial No. 390,699. 4 Claims. (Cl. 46—35.)



4. A toy building block comprising a flat body of elongated formation having its ends formed with longitudinal slots defining spaced tongues, said body being provided intermediate its ends with spaced openings to receive the tongues of similar bodies.

1,385,156. SHIPPING APPLIANCE. FREDERICK PERCIVAL SMALL, Ridgefield, N. J. Filed Nov. 10, 1920. Serial No. 423,120. 2 Claims. (Cl. 283—23.)

1. The herein described shipping appliance composed of a single rectangular sheet, one end portion of which is foldable endwise directly upon the next adjacent portion and a part of the portion thus folded being foldable in a different direction upon the remaining part of the end



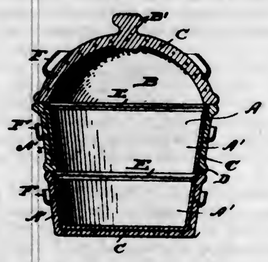
portion, the part last mentioned being slitted free from the portion of the sheet upon which it is first folded whereby the folding in the other direction is readily possible.

1,385,157. COUPLING-NIPPLE. JAMES C. SMITH, Tulsa, Okla. Filed Aug. 28, 1919. Serial No. 320,883. 4 Claims. (Cl. 285—146.)



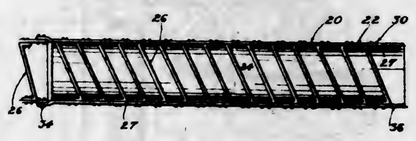
1. A coupling nipple of the character described comprising a double ended nipple body internally threaded at one end and exteriorly threaded at its opposite end, the threaded portions being interrupted by channels transverse to the threads.

1,385,158. ICELESS REFRIGERATOR. MILTON A. SNIDER, Detroit, Mich. Filed Aug. 5, 1920. Serial No. 401,327. 3 Claims. (Cl. 45—132.)



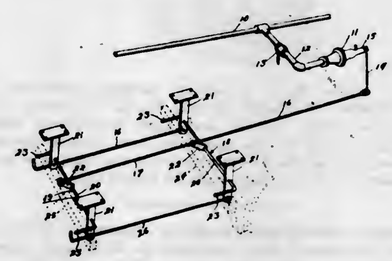
2. In a device of the character described, a vessel formed of porous moisture absorbing material, and a plurality of elastic rubber bands having one edge lodged in grooves formed in the wall of said device and with an upstanding wall spaced from the wall of the vessel to form a water trough, whereby the porous walls of the vessel may be supplied with moisture.

1,385,159. ARMOR FOR VEHICLE-TIRES. WILLIAM G. STOCKHAM, Piqua, Ohio. Filed July 8, 1920. Serial No. 393,848. 2 Claims. (Cl. 152—16.)



2. A tire armor comprising a plurality of segmental sections, each consisting of a transversely arched web, parallel flanges projecting outwardly from the side edges of the web, and cleats resting at their centers upon the arched web and extending obliquely between the flanges and having their opposite end portions extending longitudinally of the segmental section in opposite directions and secured rigidly to the inner sides of the parallel flanges but free of the arched web, the flanges on each section having offset extensions at one end overlying and secured rigidly to the ends of the flanges on an adjacent section, said ends of the adjacent section being parallel and abutting the said offset extensions.

1,385,160. AIR-BRAKE SAFETY APPLIANCE. HENRY C. STOKES, Sumter, S. C. Filed Sept. 29, 1920. Serial No. 413,508. 3 Claims. (Cl. 246—169.)

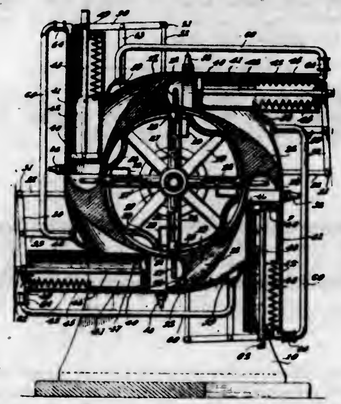


3. In combination with a railway air brake system, a valve for exhausting air from the train pipe for actuating the system, and provided with a casing, levers adapted to be actuated by the displacement of the brakes or brake beams connected with said valve for opening the same, and means within the valve casing for maintaining said valve open after it has once been actuated by said levers.

1,385,161. INTERNAL-COMBUSTION ENGINE. STUART R. THORNTON, Berkeley, Calif. Filed June 11, 1919. Serial No. 303,325. 11 Claims. (Cl. 123—14.)

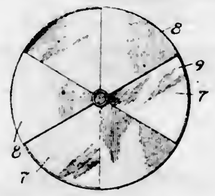
1. In a rotary engine, the combination of a stator, a rotor therein, abrupt shoulders forming compression abutments, pistons extending tangentially from the circumference of the rotor for co-action with said abutment to compress fuel in the stator, means operated by rotation of said rotor for retracting said pistons, said abutments

provided with cup-shaped recesses forming fuel-receiving pockets, fuel supply pipes extending into said pockets,



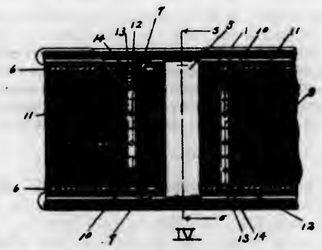
and means operated by rotation of said rotor for controlling the inlet of fuel into said pocket.

1,385,162. MOTION-PICTURE-PROJECTION APPARATUS. EDGAR D. TILLYER, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Mar. 27, 1917. Serial No. 157,595. 4 Claims. (Cl. 88—19.3.)



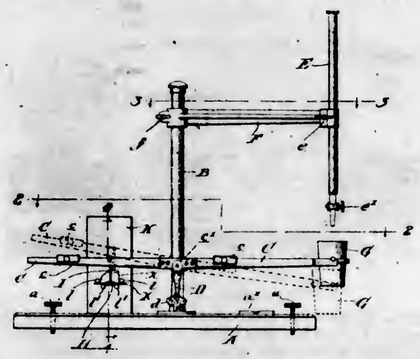
4. A shutter for a projecting machine comprising a base member of opaque material having a plurality of apertures formed therein and solid transparent heat screens mounted in the apertures, said screens having the property of selective retardance of the heat rays and transmission of high percentage of visible rays.

1,385,163. TEMPORARY BINDER. GEORGE P. WIGGINTON, Kalamazoo, Mich., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Filed May 14, 1920. Serial No. 381,312. 12 Claims. (Cl. 129—1.)



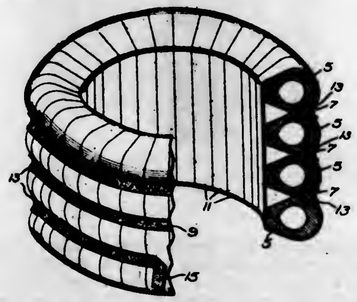
12. In a temporary binder, the combination of binder members, binding members for said binder members, and posts removably engaging said binder members and provided with sheet engaging heads.

1,385,164. PAPER-TESTER. GEORGE S. WITHAM, Jr., Hudson Falls, N. Y. Filed May 14, 1920. Serial No. 381,289. 6 Claims. (Cl. 265—15.)



1. An instrument for testing the flexibility of paper comprising a support in which a sample of paper to be tested is loosely mounted, a bending device for bending the paper both lengthwise and crosswise of the grain and for moving the paper flatwise through the support, a liquid receptacle connected with the bending device and a calibrated tube for delivering liquid to the receptacle.

1,385,165. PACKAGE. EDWARD H. ANGIER, Framingham, Mass. Filed Oct. 7, 1920. Serial No. 415,234. 4 Claims. (Cl. 206—46.)



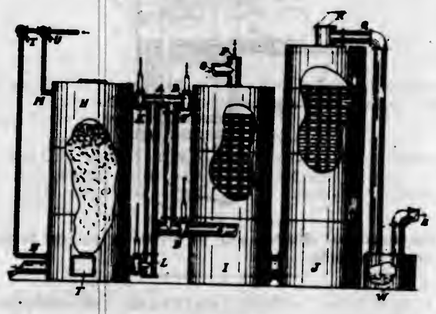
1. A package comprising a plurality of assembled articles providing grooves between them, a wrapping inclosing the articles and binders encircling the package and tensioning the wrapping by drawing it down into said grooves.

1,385,166. BREAKWATER. JAMES JERVIS BAGNALL, Day's Bay, Wellington, New Zealand. Filed July 23, 1919. Serial No. 312,653. 3 Claims. (Cl. 61—4.)



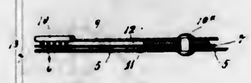
1. A breakwater of the character described comprising an anchoring element adapted for arrangement at the bottom of a body of water, spaced loops carried by the anchoring element, a plurality of rigid uprights, spaced hooks carried by each upright and engaged with one of the loops forming a flexible connection between said loop and upright, and floats secured to the down stream side of said uprights.

1,385,167. PROCESS OF MANUFACTURING GAS FOR LIGHTING OR HEATING PURPOSES FROM BITUMINOUS FUELS. CLAUDE WINFIELD BOTSFORD, Los Angeles, Calif. Filed June 13, 1919. Serial No. 303,830. 2 Claims. (Cl. 48—205.)



1. A process for the manufacture of carbureted gas using bituminous coal or other fuel containing volatile matter as generator fuel in theree stages consisting in, first, blasting the ignited fuel contained in a generator with an oxygen containing gas, burning the blast so generated to complete combustion in suitable carbureting chambers by supplying oxygen to them; then, when these chambers are sufficiently hot, shutting off their oxygen supply and blasting the generator fuel until it is sufficiently hot for gas making purposes conducting the blast gas new generated into a holder; and third, shutting off the generator blast and injecting steam into the fuel bed for the purpose of steam distilling the fuel and simultaneously making water-gas, carbureting the gas thus produced and conducting it to the holder containing the recovered blast gas where it is mixed with the latter in proportions as generated, substantially as described.

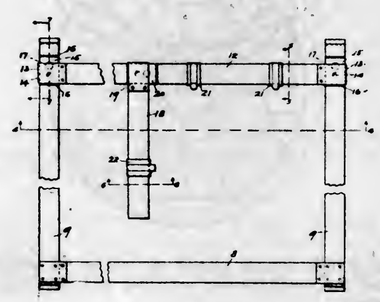
1,385,168. CHECK-PROTECTOR. VITUS A. BOKER, Minneapolis, Minn. Filed Mar. 6, 1920. Serial No. 363,727. 2 Claims. (Cl. 101—19.)



1. A check protector adapted to be carried in a check book having in combination, a die plate having perforations forming the characters to be punched, said perforations being constructed as female die members opening through the bottom of the protector and being unobstructed to permit discharge of the punchings, a stripper plate circumferentially notched and formed with radial projecting portions having perforated characters alining with the perforations in said die plate, and a punch plate having radial arms carrying punches arranged to form the characters to be punched, the ends of said punches being flat and perpendicular to the sides thereof and adapted to cooperate with the dies in the die plate to completely sever the portions of the check, said stripper plate being disposed between the die and punch plates.

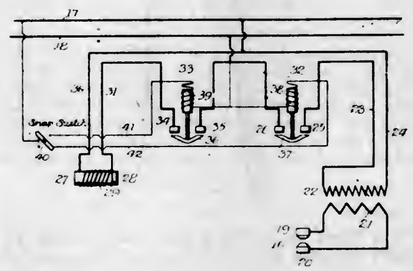
1,385,169. GAGE AND GUIDE FOR PRESS-PLATENS. EBER R. BRADLEY, Hood River, Oreg. Filed Feb. 19, 1921. Serial No. 446,448. 4 Claims. (Cl. 101—413.)

1. In a device of the kind described, the combination of, a frame of rectangular form having angled parts in quadrangular position extending downwardly, adapted to be engaged by a bail of common type and the frame to be thereby secured in a desired position upon a conventional platen, a transverse bar having each end slidably positioned on the side members of the frame, with indentations near the bar ends adjacent to the surface of the frame, and a sliding catch positioned between the



bar and frame, the catch having an opening therein alined to receive the said bar indentation and allow the bar and catch to slide upon the frame and the bar to be rigidly secured upon the frame when the opening of the catch is moved out of alinement with the indentation.

1,385,170. METHOD OF AND MEANS FOR REGULATING A SYSTEM SUBJECT TO LARGE INTERMITTENT LOADS. ALFRED HERZ, Chicago, Ill. Filed Nov. 26, 1915. Serial No. 63,439. 4 Claims. (Cl. 171—97.)

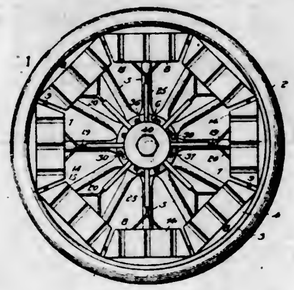


4. In combination, a line, a lamp circuit connected to the line, a load circuit also connected to the line, a load device adapted to be intermittently connected to the load circuit, said load device being of such character as to draw a relatively large current at relatively high power factor whereby a voltage drop largely of I R character is caused in the line such as to disturb the illumination of the lamps and an inductive load adapted to be substituted for the load device and vice versa, said inductive load device being of such a character as to draw current at a relatively low power factor and to cause a voltage drop largely of I X character of substantially the same effect on the lamp circuit as the drop caused by said load device and means for substituting said inductive load device for said load device and vice versa.

1,385,171. VEHICLE-WHEEL. JOHN HOFFMAN, Port Huron, Mich. Filed July 3, 1919. Serial No. 308,350. 2 Claims. (Cl. 301—46.)

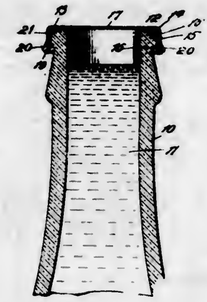
1. A vehicle wheel comprising an auxiliary rim formed of a series of curved members pivotally secured at one side of the wheel and adapted to form a substantially complete

rim when extended, said members having their ends cut at an angle coincident with the radii of the wheel for permit-



ting of their collapse against the side of the wheel, and means for simultaneously extending and retracting said members.

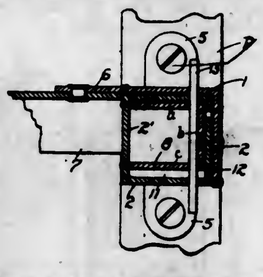
1,385,172. CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES. ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed July 7, 1917. Serial No. 179,129. 5 Claims. (Cl. 215—10.)



1. A crown cap having a top, a skirt portion, an inwardly extending shoulder at the lower edge thereof, creating an annular vertical recess around the outer peripheral portion of the cap, and a flange below said shoulder to be crimped upon a bottle neck, and a gasket within the skirt portion of said cap above said shoulder, said gasket normally having an outer wall engaging said skirt portion, an upper edge engaging the top of the cap, and an inner wall having a downwardly and outwardly diverging lower edge and normally standing in the path of the surfaces surrounding the mouth of the bottle to which the cap is to be applied, and said gasket being a vertical band extending along said recess from the top of the cap to a point adjacent to the shoulder at the lower edge of said recess, the top of the cap when in sealing position engaging the rim of the mouth of the bottle.

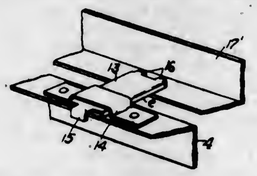
1,385,173. CORNER-FASTENING FOR BEDS. BENJAMIN H. JONES, St. Louis, Mo., assignor to Smith & Davis Manufacturing Co., St. Louis, Mo., a Corporation of Missouri. Filed Jan. 27, 1921. Serial No. 440,389. 3 Claims. (Cl. 5—55.)

1. In combination with a structural member of a bed, a corner-fastening comprising an outer and an inner shell spaced apart to provide a three-way pocket, said shells having registering openings in the top and bottom walls thereof, said structural member also having openings, and a key adapted to coöperate with the openings in the shells and one of the openings in the structural member whereby



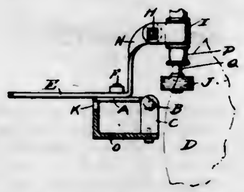
the structural member may be reversibly secured to the corner-fastening.

1,385,174. SPRING-MATTRESS AND SUPPORT THEREFOR. BENJAMIN H. JONES, St. Louis, Mo., assignor to Smith & Davis Manufacturing Co., St. Louis, Mo., a Corporation of Missouri. Filed Feb. 4, 1921. Serial No. 442,427. 3 Claims. (Cl. 5—29.)



1. In a device of the character described, a member provided with a strap, a channel-shaped slide mounted between the member and strap, and means for holding said slide in place.

1,385,175. SAW-GRINDING JIG. HARRY A. JONES and EDWARD W. STRUVE, Parsons, Kans. Filed Jan. 20, 1920. Serial No. 352,657. 1 Claim. (Cl. 51—166.)



In a device of the character set forth, a supporting table, an angular flange extending therefrom, uprights at the edge of the table opposite the flange, a base pivoted to the uprights at one edge and adapted to have its opposite edge supported by means of the flange of the table, a standard pivotally mounted upon the base and provided with an operating handle, and a grinding wheel carried by the standard.

1,385,176. SOFT-COLLAR HOLDER. FELIX P. KINTZELE, St. Louis, Mo., assignor to Krisman-Frey Jewelry Mfg. Co., Inc., St. Louis, Mo., a Corporation of Missouri. Filed May 9, 1921. Serial No. 468,090. 4 Claims. (Cl. 24—81.)

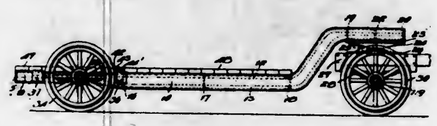
1. A soft collar holder, comprising two arcuate members, telescoping one within the other for a part of their length, an expansion spring within the two telescoping members limiting outward longitudinal movement thereof and

actuating said members to telescope one within the other, a hook rigid with and extending inwardly from the concave side of each of said members near the outer ends



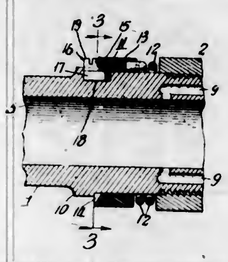
thereof, and a pivoted clasp supported by each telescoping member and arranged to coöperate with the hook on said member for the purpose described.

1,385,177. SEMITRAILER. ALBERT P. LEE, Chicago, Ill., assignor to Lee Trailer & Body Co., Chicago, Ill. Filed Nov. 6, 1919. Serial No. 336,043. 2 Claims. (Cl. 280—33.1.)



2. A semitrailer comprising a framework having a raised portion adapted to be supported upon the framework of a pulling vehicle, and a depressed rear portion, said depressed rear portion being supported by an axle having a depressed portion, and means for preventing swinging of said axle relatively to the framework, said means comprising radius rods connecting the lower portion of the axle to the framework and adjustable radius rods connecting the upper portion of said axle to said framework, said radius rods being disposed in pairs at opposite sides of said framework.

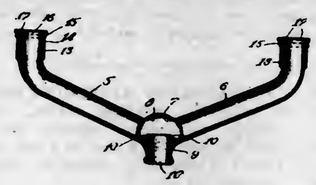
1,385,178. VALVE-HOUSING OR HANDLE-LOCK FOR PNEUMATIC TOOLS. AXEL LEVEDAHL, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed June 1, 1920. Serial No. 385,438. 4 Claims. (Cl. 285—177.)



4. In a pneumatic tool, the combination of a barrel, a member having threaded connection with said barrel at one end thereof, a rib on the barrel, a ring rotatably and slidably mounted on said barrel and having ratchet teeth in one edge thereof, a spring encircling said barrel between said ring and said member and having its ends bent in opposite directions and engaging in sockets in said member and ring, respectively, and a key having an integral base and head, the former being rotatably seated in a recess in said barrel at said rib and overlapped by said ring, and said head having a tube to engage the ratchet teeth on said ring and provided with a slot to permit turning of said key.

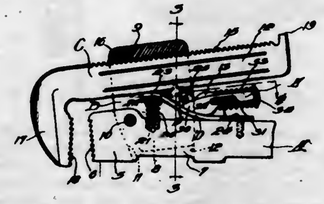
1,385,179. LIQUID-MIXING DEVICE. JOHN W. LISKA, Chicago, Ill. Filed Mar. 19, 1920. Serial No. 367,201. 1 Claim. (Cl. 137—111.)

A liquid mixer comprising a one piece elastic liquid conductor having two conduits joined at their meeting ends by a part inclosing a mixing chamber; a nozzle, extending into the mixing chamber in the path provided



by the conduits, and means within the chamber to divert the liquid from the conduit into the mixing chamber and away from the nozzle.

1,385,180. WRENCH. AUGUST S. LIZAK, Chicago, Ill., assignor to Kentowski & Company, Chicago, Ill., a Copartnership consisting of M. E. Kentowski, T. E. Winiarski, and August S. Lizak. Filed Oct. 25, 1920. Serial No. 419,279. 5 Claims. (Cl. 81—145.)



1. In a wrench, the combination of a handle provided with a fixed jaw, a U-shaped frame mounted on the handle and provided with ratchet teeth which face the handle in spaced relation thereto, a jaw movably arranged within the frame and provided with ratchet teeth adapted to cooperate with those in the frame, a leaf spring carried by the handle and pressing on the movable jaw to maintain its ratchet teeth in engagement with those in the frame, a pin arranged transversely in the frame, and a wedge arranged for projection between the pin and leaf spring to depress the latter whereby the movable jaw may be freely moved within the frame, substantially as described.

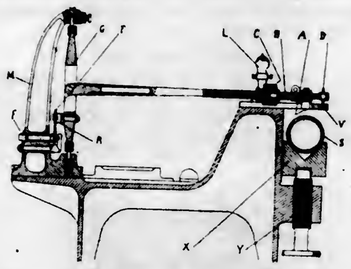
1,385,181. ELECTRIC-CURRENT RELAY. CHARLES O. LORENZ, Port Arthur, Tex., assignor to The Texas Company, New York, N. Y., a Corporation of Texas. Filed July 20, 1917. Serial No. 181,864. 8 Claims. (Cl. 200—111.)



2. A relay comprising a tubular member having a solenoid intermediate the ends of the tube and containing

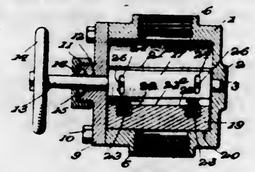
within the magnetic flux of the solenoid an upper laminated core and a lower core of non-magnetizable material having a magnetizable shell, a conducting rod connected with the lower core for movement therewith, and a contact adapted to be engaged by said rod.

1,385,182. APPARATUS FOR MEASURING THE HARDNESS OF BODIES. AUGUSTE MAIRE, Argenteuil, France, assignor to Societe Lorraine des Anciens Etablissements de Dietrich & Cie. de Luneville, Paris, France. Filed Oct. 31, 1918. Serial No. 260,499. 6 Claims. (Cl. 205—14.)



1. An apparatus for measuring the hardness of a stationary body comprising in combination a diamond, a pivotally mounted supporting member upon which said diamond is rigidly secured, means for moving bodily said pivoted supporting member and the diamond with a progressively increasing force so as to tend to move the diamond across the surface of the stationary body and means for measuring the variable value of said force.

1,385,183. VALVE. HARVEY G. MAULE, Seattle, Wash., assignor of one-half to Reginald A. Pearce, King county, Wash. Filed July 8, 1920. Serial No. 394,655. 1 Claim. (Cl. 251—102.)

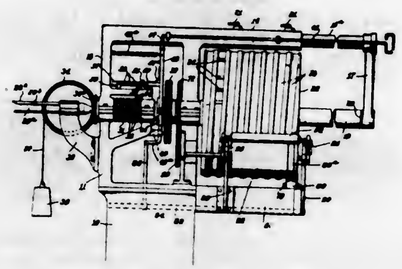


A valve comprising a body member formed with an inlet and an outlet and open at one side, a plate closing said open side and removably secured to the valve body member, a valve mounted for rotation within the body and coöperating with the inlet and outlet for valve functions, said valve having spaced parallel wings extending therefrom, and a valve operating member supported in said plate and removably supported in the opposite end of the valve body, said valve operating member having a rectangular portion to fit between the spaced parallel wings of the valve, means connecting said rectangular portion and said wings to permit limited independent movement of said rectangular portion and valve, and springs interposed between said rectangular portion and valve and seated in recesses in the latter to normally maintain the valve in valve operating position, the mounting of the valve operating member in the removable plate for the valve body and the support of the valve from said operating member, permitting the removal of the valve and operating member with the plate closing the open end of the valve body.

1,385,184. METHOD FOR FINISHING LEATHER. WYMAN H. MEADE and SVEN H. FRIBERTEDT, Camden, N. J. Filed Oct. 14, 1919. Serial No. 330,636. 3 Claims. (Cl. 91—68.)

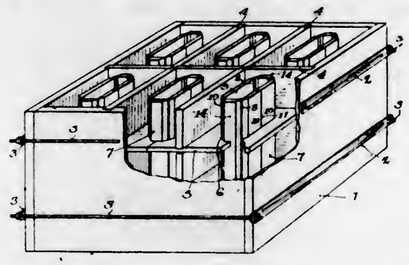
1. As a new article of manufacture, leather having a coating including selenium.

1,385,185. MACHINE FOR MARKING PERFORATED MUSIC-ROLLS. PHILIP J. MEAHL, Summit, N. J. Filed Aug. 24, 1920. Serial No. 405,614. 26 Claims. (Cl. 101—92.)



1. In a device of the character described, a member adapted to receive printing characters about its periphery, and means for imparting a continuous rotary and transverse movement to said member.

1,385,186. APPARATUS FOR MAKING BUILDING-BLOCKS. JAMES A. MUTH, Milwaukee, Wis. Filed Dec. 30, 1919. Serial No. 348,342. 11 Claims. (Cl. 25—121.)

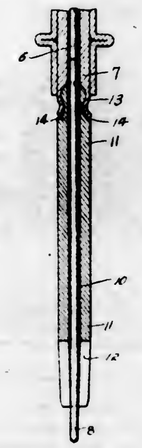


1. In a building block apparatus, the combination of a collapsible, substantially rigid core having a plurality of hingedly joined members, and means for separating a pair of blocks, said means having an opening conforming to said core, and said core arranged to pass through said means and into a pair of adjacent blocks, the walls of said opening limiting the extent of expansion of said core.

1,385,187. PENCIL. PHILIP W. OLSON, Fort Madison, Iowa, assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa, a Corporation of Delaware. Filed Dec. 15, 1919. Serial No. 345,113. 5 Claims. (Cl. 120—18.)

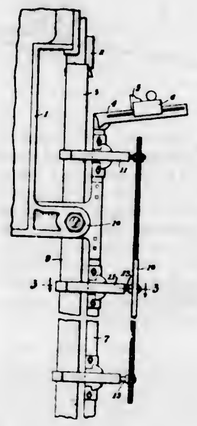
1. A pencil comprising a shell having a tapered inner wall at one end and a lead opening at the apex of said tapered wall; a lead tube having a portion held rigidly against lateral movement in said shell and a portion engaging said tapered inner wall; and a connection between

said portions permitting the second-mentioned portion of the shell to yield laterally out of alinement with said



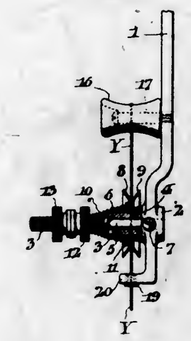
first-mentioned portion, the yielding of said second-mentioned portion being controlled by said tapered inner wall.

1,385,188. ADJUSTABLE CLAMP FOR LOG-HOLDERS. DENNIS PARKS, St. Louis, Mo. Filed June 18, 1920. Serial No. 390,017. 6 Claims. (Cl. 12—42.)



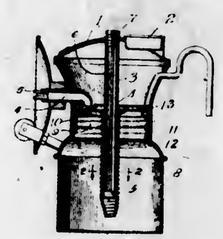
1. A log-holder having an open upper end for receiving heel-blanks, lifts or the like to form the log and extending thence downward for an indefinite distance, said holder comprising two members providing between them an uninterrupted space throughout the length of the holder for accommodating the log, one of said members being movable for varying the area of said space, and means for adjusting said movable member uniformly throughout its length relative to the other member from any point in the length of the holder.

1,385,189. YARN-TENSION DEVICE. ALBERT M. PIGEON Norristown, Pa. Filed Sept. 19, 1919. Serial No 324,888. 3 Claims. (Cl. 242—150.)



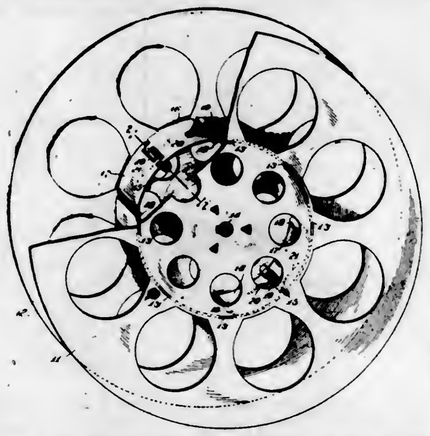
3. A yarn tension device comprising a pair of yieldingly opposed, freely rotatable, tension disks; a spool shaped element located beyond said disks about which the yarn, after having passed tangentially between the disks at one side, is reversed in the direction of its travel and reguided to repass in a like manner between the disks at the opposite side; and a pair of guide eyelets adapted for coöperation with the spool element in maintaining the oppositely moving portions of the yarn in parallelism as they pass between the tension disks.

1,385,190. ACETYLENE-GAS LAMP. JACOB S. SHERMAN, Chicago, Ill., assignor to Universal Lamp Co., Chicago, Ill., a Corporation of Illinois. Filed Jan. 17, 1918. Serial No. 212,217. 4 Claims. (Cl. 48—27.)



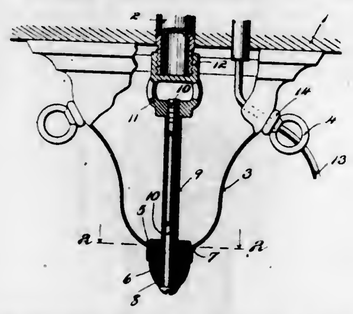
4. In an acetylene gas generator, the combination of a water container, a carbid container, a water discharge tube communicating with the former and extending a substantial distance into the latter, a helical spring encompassing the tube for substantially its entire extent within the carbid container and depending below the discharge end of the tube, said spring normally being spaced from the wall of the tube to afford a channel for upward progress of water therebetween, and a water control member disposed within the guard and coöperating with the lower portion of the tube and extending transversely thereof in position to receive water therefrom and direct it toward the encompassing portion of the spring, the periphery of said water control member lying adjacent encompassing coils of the spring in position to impinge water thereon adjacent the lower end of the tube, and means for adjusting said water control member.

1,385,191. FILM-REEL. FRANKLIN SPAULDING, Chicago, Ill., assignor to George W. Christopher, Chicago, Ill. Filed Aug. 30, 1919. Serial No. 320,886. 5 Claims. (Cl. 242—74.)



1. A film reel comprising a drum about which a film may be wound, a section of the drum being omitted, and a spring closed gripping door located in the omitted portion, its swinging margin bearing outwardly against a transverse edge portion of the drum.

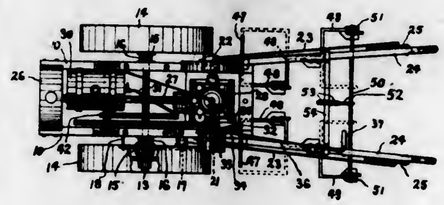
1,385,192. ELECTRIC-LIGHTING FIXTURE. PETER W. SPRECHER, Milwaukee, Wis. Filed Mar. 1, 1920. Serial No. 362,369. 1 Claim. (Cl. 240—85.)



An electric lighting fixture comprising an attaching yoke composed entirely of metal and having a threaded aperture at one end. An internally threaded socket at the other end of the yoke for receiving the threaded end of a gas pipe, the bottom of the socket being adapted to close the end of the pipe, a canopy disposed over the yoke and having an opening in its extremity, an insulating block in said opening and having a bore, an attaching screw disposed through the bore of the block and threaded in the aperture of the yoke, and an insulating sleeve surrounding the screw, said canopy being provided with uninsulated openings in its sides for the current distribution wires.

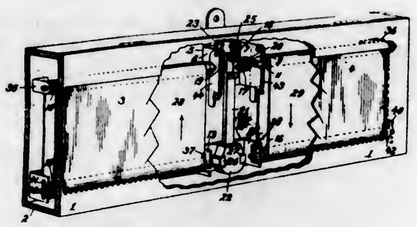
1,385,193. CULTIVATOR ATTACHMENT. CHARLES F. SHOWALTER, Omaha, Nebr. Filed June 18, 1920. Serial No. 389,854. 2 Claims. (Cl. 97—42.)

1. In a tractor, a wheeled frame, depending supports carried upon the rear end of the frame, a pair of sockets mounted on the lower ends of the supports, cultivator bars secured at their forward ends to the sockets and having depending cultivator teeth, a pair of rearwardly extending handles mounted on the frame, a cross piece supported



upon the handles, a yieldably supported link carried by the cross piece, and a bail mounted on the lower end of the link and having connection with the rear ends of the cultivator bars.

1,385,194. ADVERTISEMENT DEVICE. CHARLES HAROLD WAITHMAN, London, England, assignor to James William Carr, Halifax, York, England, and James Gardiner, London, England. Filed Jan. 29, 1920. Serial No. 355,017. 4 Claims. (Cl. 40—51.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an advertising device, the combination with a frame adapted to be mounted on a vehicle, of a pendulum, a pivot therefor, a ratchet wheel, and a gear wheel driven thereby mounted on said pivot, a pawl on the frame, a pawl on the pendulum, said pawls engaging said ratchet wheel, rollers having their axes disposed in a plane substantially parallel to the plane in which the pendulum swings, a pinion carried by one of said rollers and meshing with said gear wheel and a visible surface adapted to be moved by said driven roller.

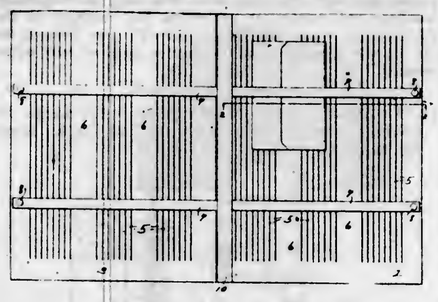
1,385,195. REMEDY FOR HEMORRHOIDS. FRED B. WELLS, Hillyard, Wash., assignor to Charles Durant, Hillyard, Wash. Filed Aug. 13, 1919. Serial No. 317,214. 3 Claims. (Cl. 167—9.)

3. A remedy for hemorrhoids, comprising ox bile and alcohol, the proportion of bile present being greater than the proportion which may be dissolved by the alcohol present, the excess bile remaining in suspension in the solution.

1,385,196. PHOTOGRAPH-ALBUM. LUCILE L. WITTE. Kiel, Wis. Filed June 16, 1919. Serial No. 304,475. 6 Claims. (Cl. 129—20.)

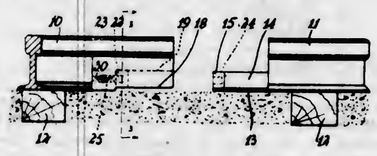
1. A photograph album having leaves provided with substantially parallel flat card retaining bands arranged

in groups extending from the top to the bottom margins thereof, said bands being grouped whereby a photograph



card may be engaged adjacent to its edges by one band from each of two groups.

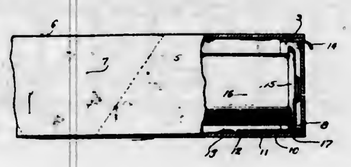
1,385,197. RAIL-JOINT. JOSEPH ZYGMAN, Greenwich, Conn. Filed May 21, 1921. Serial No. 471,491. 4 Claims. (Cl. 238—235.)



1. A pair of rail ends having interlocking elements preventing longitudinal displacement, and a bolt carried in a longitudinal socket in one rail end and projecting into a registering longitudinal socket in the other rail end.

1,385,198. [WITHDRAWN.]

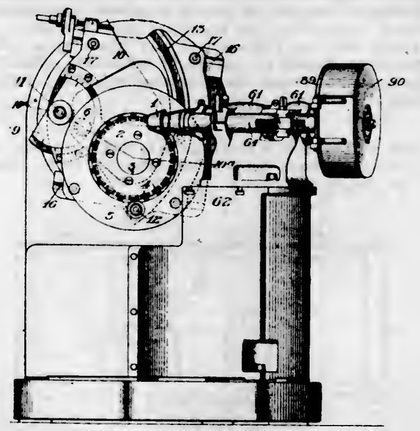
1,385,199. MUSIC-ROLL CONTAINER. WILLIAM L. BUEDINGEN, Milwaukee, Wis. Filed Mar. 26, 1920. Serial No. 369,128. 2 Claims. (Cl. 206—52.)



1. A roll receiving carton having an open end, a cover normally closing said end, and a portion carried by the cover and slidable within the carton, said portion having a recess therein in which the adjacent end head of a roll within the carton is engageable when the cover is in closed position to insure the positive partial withdrawal of the roll from the carton when the cover is moved to open position.

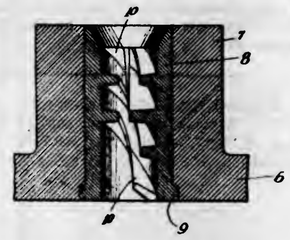
1,385,200. GEAR-CUTTING MACHINE. EDWARD W. BULLOCK and GEORGE H. BRYAN, Rochester, N. Y., assignors to Gleason Works, Rochester, N. Y., a Corporation of New York. Filed June 7, 1917. Serial No. 173,313. 18 Claims. (Cl. 90—4.)

1. In a gear cutting machine, the combination with a cutter spindle, of a sleeve in which the cutter spindle is freely rotatable and held against relative endwise movement, a cam and coöperating cam member, one of which



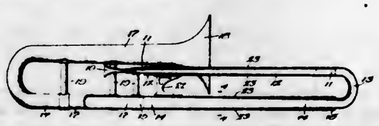
parts is carried by said sleeve, and means for driving one of said cam parts to effect endwise reciprocating movement of the sleeve and cutter spindle.

1,385,201. CASTING APPARATUS. CHARLES E. CHAPPLE, Brooklyn, N. Y., assignor to Doehler Die Casting Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 29, 1919. Serial No. 341,454. 5 Claims. (Cl. 22—134.)



1. Casting apparatus embodying a member having an ingate formed therein, said ingate having surfaces therein at an angle to the axis thereof, so arranged as to guide the fluid metal poured into said ingate and to prevent the unimpeded passage through the ingate of substantially all the fluid metal poured therein at any point in the cross-sectional area thereof.

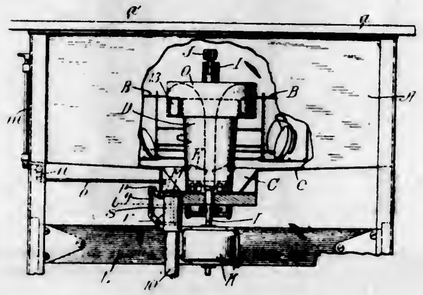
1,385,202. SLIDE-TROMBONE. ERNST A. COUTURIER. Laporte, Ind. Filed June 25, 1919. Serial No. 306,582. 4 Claims. (Cl. 84—395.)



2. In a trombone, the combination of a cylindrical bell-branch, a mouthpipe of progressively increasing diameter, a slide comprising a cylindrical leg telescopically surrounding said mouthpipe and slidingly fitting the larger

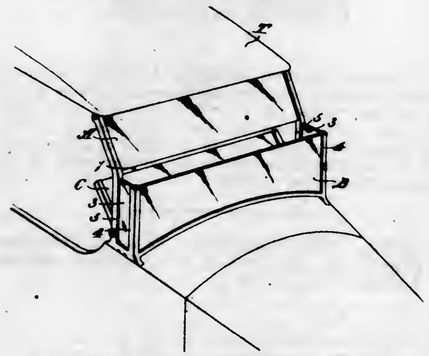
end thereof and a leg of progressively increasing diameter telescopically disposed within said bell-branch, the bore through said instrument being devoid of restrictions irrespective of the position of said slide, and tapered guide collars surrounding said mouthpipe and the tapered leg of said slide, the perimeters of said collars being cylindrical and adapted to slidingly fit within the cylindrical leg of said slide and the cylindrical bell-branch respectively.

1,385,203. DISH-WASHING MACHINE. JAMES W. CROOKS, Pelham, N. Y. Filed Sept. 25, 1919. Serial No. 326,244. 4 Claims. (Cl. 141—9.)



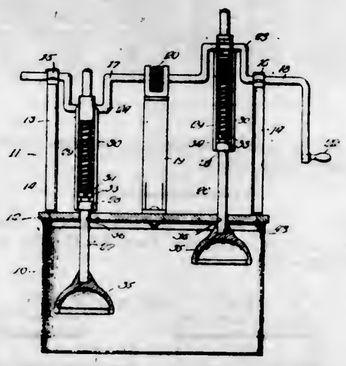
3. A dishwashing machine having, in combination, a dishholding tank; an upwardly expanding stationary casing within said tank communicating at its lower end with said tank and open at its top; and a rotary water elevator and distributer, the elevator consisting of an elevating propeller located near the bottom of said casing which forces the water upwardly through the casing, and a distributer comprising an outer trough at the top of said casing and receiving water therefrom, and having an outlet in its outer wall.

1,385,204. WINDSHIELD FOR VEHICLES AND CONVEYANCES. WILLIAM DE F. CROWELL, St. Louis, Mo. Filed Dec. 31, 1917. Serial No. 209,738. 3 Claims. (Cl. 296—84.)



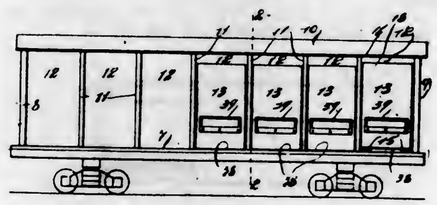
1. A wind shield for vehicles and conveyances, comprising a rearwardly-inclined upper member whose upper edge terminates in close enough proximity to the front edge of the top of the vehicle to permit the air which travels upwardly over the front side of said member to escape rearwardly over the top of the vehicle, a baffle arranged in advance of the bottom edge of said upper member with its top edge positioned far enough below the bottom edge of said upper member to form a clear vision slot, said baffle causing air to be deflected upwardly across said slot and onto the front side of said upper member, and means for protecting the operator of the vehicle from water that blows through said clear vision slot or which drips from the bottom edge of said upper member.

1,385,205. WASHING-MACHINE. LESTER H. DE COSTER, Jackson, Mich. Filed Apr. 15, 1920. Serial No. 374,002. 1 Claim. (Cl. 68—19.)



In combination with a washing machine having a tub; a substantially closed cover therefor; a crank rotatably supported on the cover; a plunger rod passing through the cover and pivoted in the opening of the cover; a bracket slidable on the rod and pivoted to the crank; a ring spaced away from the bracket, slidable on the rod; side rods on each side of the plunger rod connecting the ring and bracket; a spring wound about the plunger rod and bracket and an axially adjustable collar on the plunger rod at one end of the spring.

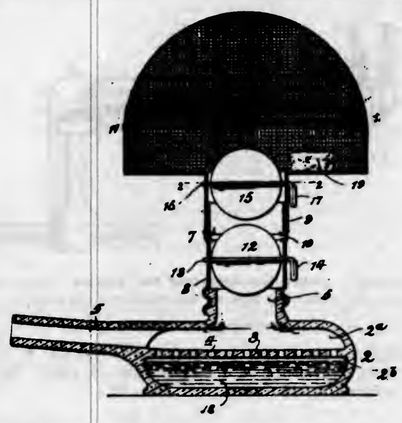
1,385,206. FREIGHT-CAR. EMIL DIMOND, Providence, R. I. Filed Mar. 7, 1921. Serial No. 450,244. 5 Claims. (Cl. 105—366.)



1. The combination of a freight car open at the sides thereof, partitions extending transversely thereof to provide compartments, platforms having wheels permanently connected thereto arranged to be moved into or out of said compartments, a closed box carried by each platform having openings for loading same, and means to lower each box upon its wheels after it has been moved into a compartment to cause said box to rest upon a portion of the car.

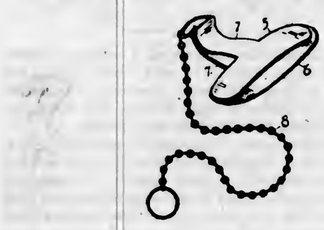
1,385,207. INSECT-TRAP. AMBROISE GARDON, Peterson, Saskatchewan, Canada. Filed Apr. 1, 1921. Serial No. 457,623. 4 Claims. (Cl. 43—107.)

3. A fly trap comprising a vessel divided into two horizontal compartments, said compartments separated by a perforated partition, the upper one of said compartments having a contracted inlet for ingress of flies, and a relatively large outlet, the lower one of said compartments containing bait, and a tubular fly-way comprising two telescopic sections, said sections respectively having a



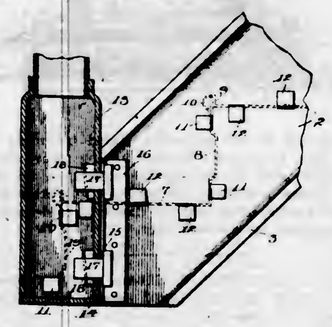
normally open door, and a housing composed of wire netting communicating with and connected to the upper one of said sections, said housing containing bait.

1,385,208. ANTIRATTLER FOR WINDOWS. DANIEL B. GEDDES, Newark, N. J. Filed Dec. 3, 1920. Serial No. 427,991. 3 Claims. (Cl. 292—19.)



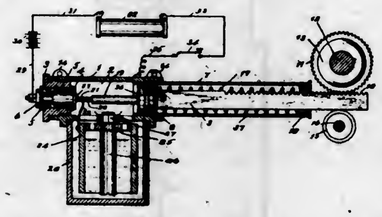
1. An anti-rattler for windows comprising two bowed leaf springs which bear together at their ends and each of which has a transverse branch from its middle, the two branches being connected to hold the springs together, substantially as described.

1,385,209. STAIR STRUCTURE. AKOS J. HALL, Cleveland, Ohio. Filed Sept. 23, 1919. Serial No. 325,613. 8 Claims. (Cl. 189—43.)



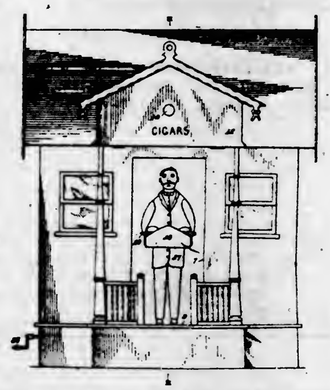
1. In a stair structure, the combination of a plurality of stair units consisting of a tread and riser, lugs formed at the lateral edges of the tread and riser of each unit, and stringers provided with slots, said lugs extending through the slots and bent against the walls of the stringers for fastening the units and stringers together.

1,385,210. STARTING MEANS. CHARLES HAUNZ, Lancaster, N. Y., assignor to Gould Storage Battery Company, a Corporation of New York. Filed May 10, 1917. Serial No. 167,678. 20 Claims. (Cl. 123—179.)



5. Starting means comprehending an electrically operated gas generator producing an explosive mixture of gases, means for confining said gases under pressure, means operated responsive to said production of gas for igniting said confined gases, and means for utilizing the power developed thereby to perform a starting function.

1,385,211. ADVERTISING DEVICE. JOHN HULL, Coatesville, Pa. Filed Mar. 17, 1921. Serial No. 453,022. 5 Claims. (Cl. 211—8.)

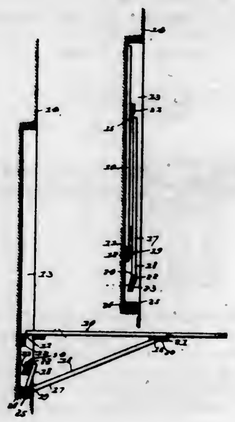


1. In a device for delivering cigars, the combination with a house-like structure having a porch with a doorway communicating therebetween, of a figure movably mounted to pass from within the house-like structure to a point upon the porch through said doorway and including a cigar receiving element, of means to simultaneously deliver cigars one at a time to said receiving member and to move the figure through the doorway onto the porch.

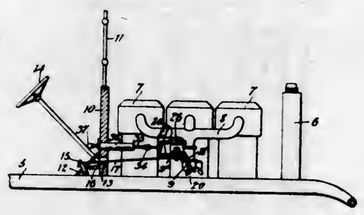
1,385,212. HOUSED IRONING-BOARD. CHARLES V. HUNTINGTON, Woodland, Calif. Filed June 13, 1919. Serial No. 303,933. 1 Claim. (Cl. 68—10.)

The combination with a wall having a housing formed therein, of an ironing board hingedly connected at one end to a transversely disposed cleat mounted on the back wall of said housing, a brace consisting of relatively foldable members which are hingedly connected together at their adjacent extremities, a transverse cleat mounted on the board at an intermediate point in its length and formed with a beveled edge constituting a stop for one of the

elements of the brace, the said element being hingedly attached to the board adjacent the cleat, a transversely disposed rest spanning the housing and having the other element of the brace hingedly connected to it, and a transversely disposed bar mounted in the housing adjacent the bottom thereof and having its outer edge beveled for abutting engagement with the opposite end of the first said element constituting the foldable brace.



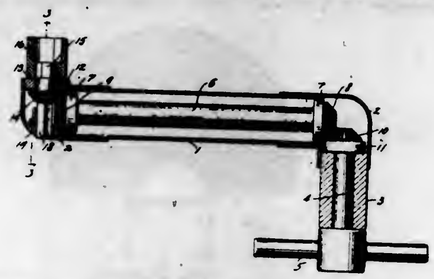
1,385,213. AUXILIARY AIR-FEED. PAUL EMERSON KLINE, Bridgeville, Pa. Filed Sept. 15, 1919. Serial No. 323,748. 6 Claims. (Cl. 123—119.)



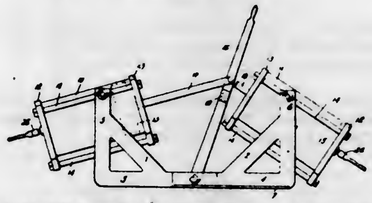
1. An auxiliary air feed comprising an air tube to be mounted upon an intake manifold for the purpose of producing air intake, said air tube being provided with a stop, a valve mounted within said air tube and movable relatively thereto for the purpose of controlling the amount of air drawn into said tube, a stem connected with said valve, a floating lever connected with said stem, a foot lever, mechanism from said foot lever to said floating lever for actuating said floating lever in order to control said valve, and mechanism controllable at the will of the operator for shifting the position of said floating lever.

1,385,214. WRENCH. AUGUST CHARLES KLOPPER, Asbury Park, N. J. Filed Nov. 6, 1920. Serial No. 422,225. 2 Claims. (Cl. 81—57.)

1. A wrench of the character described, comprising a tubular casing, a shaft supported by the casing at one end thereof, a nut engaging socket on the shaft, a pinion on the inner end of said shaft having an angular socket therein, an angular locking block movable into and out of engagement with said socket and adapted when in engagement with the socket to lock the pinion against turning movement, means for operating the locking block, and means for imparting turning movement to the pinion.



1,385,215. PUMPING MECHANISM. EDWARD S. LIDSTONE, Providence, R. I. Filed June 18, 1920. Serial No. 389,873. 10 Claims. (Cl. 230—27.)



1. A pumping mechanism comprising a sectional frame, a plurality of pumping devices on said frame, means for connecting and holding the frame sections in position suitable for the actuation of said devices, and means on said connecting means for actuating said devices.

9. A pumping mechanism comprising a sectional frame, a base portion and a supporting portion on each section, a pumping device mounted on each section, a connecting link between the base portions of separate sections to hold them in position for the operation of the devices, and an actuating member for said devices coöperating with said link, said base portions adapted to telescope one within the other when the sections are disconnected.

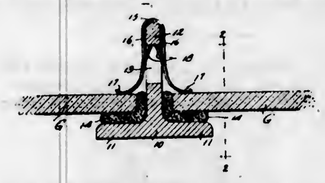
1,385,216. VISE. EDWARD S. LIDSTONE, Providence, R. I. Filed JAN. 18, 1921. Serial No. 438,154. 10 Claims. (Cl. 81—41.)



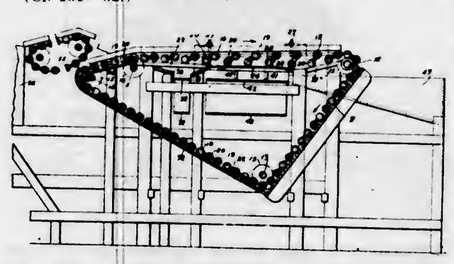
1. A device of the character stated including a supporting base, an annular member having rotary mounting on the base, said annular member including an internal annular flange, a plurality of vertically movable members frictionally engageable with the flange to hold the annular member against rotary movement.

1,385,217. GLAZING-CLIP. HENRY M. LUTZ, New York, N. Y. Filed Apr. 13, 1920. Serial No. 373,653. 3 Claims. (Cl. 189—77.)

1. A glass securing means comprising in combination with a T-shaped bar, the web of which is provided with cut-out portions, a U-shaped resilient clip, the free ends of the legs of which are flared outwardly to provide glass-engaging feet, and resilient tongues formed in the body portion of said U-shaped clip, the free ends of said tongues being adapted to engage within the cut-out portions of the web of the bar to maintain the feet in contact with the glass and the U-shaped clip in position upon the web of said bar.

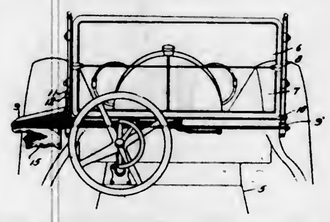


1,385,218. FRUIT-SIZING MACHINE. ALLEN H. MCINTYRE, Dunedin, Fla., assignor to Skinner Machinery Company, Dunedin, Fla., a Corporation of Florida. Filed Apr. 16, 1919. Serial No. 290,440. 23 Claims. (Cl. 130—32.)



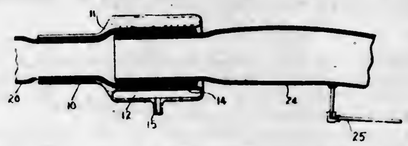
1. In a fruit sizing machine, in combination, a sizing conveyer, means to move the sizing conveyer in a substantially horizontal plane, said sizing conveyer comprising two laterally extending parallel spaced fruit supports, one of said supports being movable below, and out of and into the path of travel of the sizing conveyer and with relation to the other support.

1,385,219. DIRECTION-INDICATOR. MAURICE T. MCINTYRE, Brooklyn, N. Y. Filed Mar. 20, 1920, Serial No. 367,375. Renewed June 7, 1921. Serial No. 475,836. 1 Claim. (Cl. 116—47.)



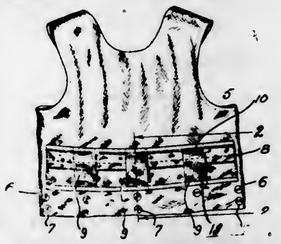
A direction indicator comprising a stationary housing of substantially rectangular form rigidly secured to the forward portion of a motor vehicle, a shaft extending transversely of the vehicle and having one of its ends projecting into said housing, an indicating member carried by that end of said shaft which projects into the housing, said indicating member lying normally in a horizontal plane to close the lower open side of said housing, and means for rocking said shaft to swing the indicating member to vertical display position on the exterior of said housing.

1,385,220. TUBE-SPLICING. MELVON A. MARQUETTE, Chicopee Falls, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Nov. 9, 1920. Serial No. 422,785. 7 Claims. (Cl. 18—59.)



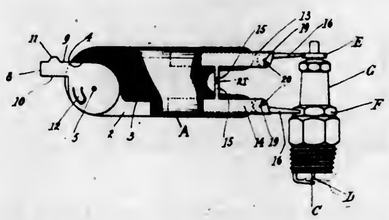
1. The method of splicing tubes comprising coating the inner surface of one section of tube and the outer surface of another section of tube with cement, holding that section having its inner surface coated distended without interfering with access to its inner surface, locating the second section within the first section, and bringing the cemented surfaces into contact.

1,385,221. CHILD'S WAIST. EDNA F. MEIER, Denver, Colo. Filed Sept. 16, 1918. Serial No. 254,275. 1 Claim. (Cl. 2—98.)



A child's nether-garment-supporting waist having a relatively narrow folded member set in the back of the waist with the fold extending transversely of the entire back of the waist, the edges of said folded member being secured to the waist, elastic means spanning said folded member and secured to the waist immediately above and below the folded member, said elastic means extending and being effective throughout substantially the entire transverse length of the folded member, and a series of fasteners on the garment below the folded member for the attachment of nether garments.

1,385,222. COMBINATION SPARK-PLUG-TESTING AND GAP-ADJUSTING DEVICE. JOSEPH C. MILLER, North St. Paul, Minn. Filed Jan. 16, 1920. Serial No. 351,751. 3 Claims. (Cl. 175—183.)



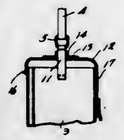
1. A testing device for ignition systems comprising a non-conducting comparatively thick long block, two spaced conducting members partly embedded in said block and extending longitudinally beyond the end thereof, said block being cut away to form an open space between the embedded parts of said conducting members, electrodes

spaced end for end in said open space one connected with each of said conducting members, and a contact member for each conducting member pivoted at the free end of the latter so as to swing in the same plane toward each other, one of said conducting members extending beyond the other to permit one contact member to fold over the other.

1,385,223. ALLOY. FOSTER MILLIKEN, Lawrence, N. Y., assignor to Foster Milliken, S. Fullerton Weaver, and James M. Reppiier, as trustees. Filed May 24, 1920. Serial No. 383,888. 1 Claim. (Cl. 75—1.)

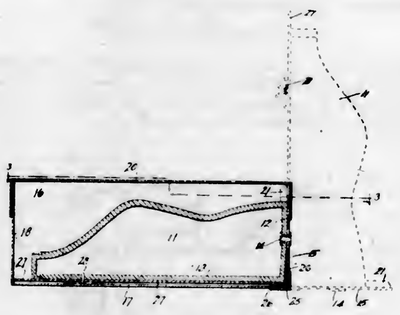
An alloy containing aluminum, lead, and an oxidizing agent, the aluminum and the lead being in a purified state and in proportion substantially as specified, the said oxidizing agent being a portion of 1 to 2 per cent. of the deoxidizing agent used as the medium for purifying the said aluminum and the said lead and remaining as an integral part of the alloy after purification of the said aluminum and lead, the said alloy being characterized by increased density, ability to withstand pressure and high resistance to corrosion.

1,385,224. COVER AND SUPPORT FOR CARRIERS. ROBERT P. ORR, Albany, N. Y. Filed Feb. 6, 1920. Serial No. 356,642. 3 Claims. (Cl. 224—5.)



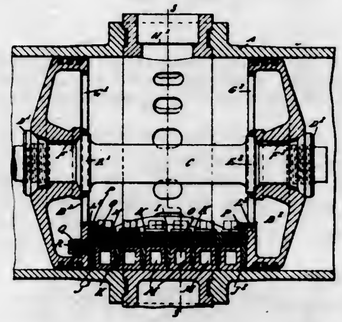
3. A carrier of the character described comprising a body formed in two sections, flexible means for connecting the sections together, a cover for each of said sections and means extending through said covers for supporting said sections in such a manner that the cover may be opened and closed without disturbing the supporting means.

1,385,225. DISPLAY DEVICE. CHARLES I. OWEN, Yonkers, N. Y. Filed Dec. 11, 1919. Serial No. 344,051. 2 Claims. (Cl. 211—28.)



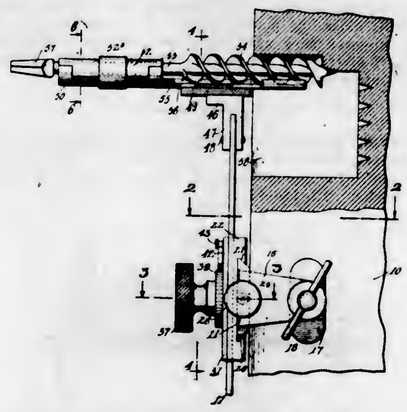
1. A display device, comprising a box having a front, a bottom, back, sides and top, a half form adapted to support a garment to be displayed and having a flat bottom and a flat back, means permanently fastening the said flat bottom of the half form to the rear face of the said box front, the latter forming a base for the said half form, a backplate hinged at its forward edge to the lower end of the said box front, the said backplate fitting into the box between the sides thereof and resting normally on the bottom of the box, the flat back of the half form resting on the said backplate, and tying means detachably fastening the said half form back to the said backplate.

1,385,226. PISTON OF UNIFLOW STEAM-ENGINES. HENRY PILLING, Chorlton-cum-Hardy, England. Filed Jan. 6, 1921. Serial No. 435,462. 6 Claims. (Cl. 74—108.)



1. A uniflow steam engine piston constructed in two parts, each part being separately secured to a piston rod common to each part and in which a chair or slipper arranged between the two parts of the piston supports the weight of the piston.

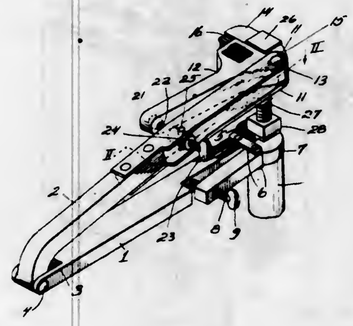
1,385,227. BIT AND DRILL GUIDE. FRANK PYRON, New York, N. Y. Filed May 14, 1920. Serial No. 381,361. 5 Claims. (Cl. 77—62.)



1. A device for drilling mortises in doors, which comprises a clamp to be attached to the door, a drill bit support attached to the clamp, means for moving the support in one direction relative to the clamp, and means for moving the support in another direction relative to the clamp.

1,385,228. ADJUSTABLE TAPPET-WRENCH. ROY P. REYNOLDS, Harrisonville, Mo. Filed Nov. 29, 1920. Serial No. 427,147. 5 Claims. (Cl. 81—53.)

4. In a tool of the character described, a pair of handles bearing a pivoted relation to each other, one of said handles being provided at its outer end with an immovable jaw having a movable jaw pivoted thereto, and means for locking the movable jaw against outward movement; the

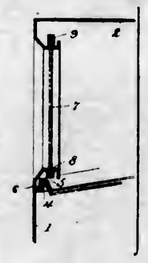


companion handle being provided with a wrench at its outer end, and means carried by said handle for operating said wrench.

1,385,229. PRODUCTION OF REFLECTING-SURFACES ON GLASS BY MEANS OF METALS IN THE PLATINUM GROUP. JULIUS RHEINBERG, London, England. Filed Oct. 11, 1920. Serial No. 416,314. 4 Claims. Cl. 91—70.1.)

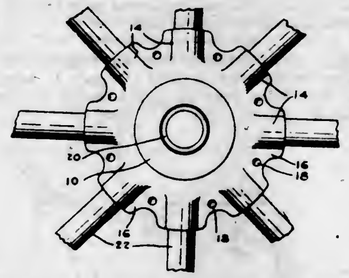
1. The production on glass of surface mirrors which are homogeneous and structureless, by first coating the glass with a dry film of collodion containing one of the platinum metals, and subsequently submitting the coated glass to the requisite temperature in a furnace.

1,385,230. DIRECTION-SIGNAL. JESSE G. ROSEBOOM, Cincinnati, Ohio. Filed Aug. 7, 1920. Serial No. 401,945. 4 Claims. (Cl. 40—132.)



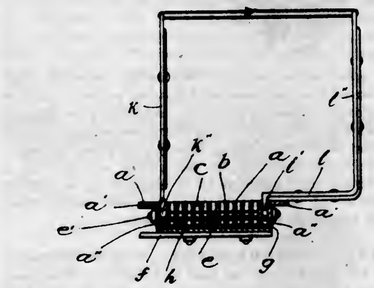
1. In a hood for direction signals the combination of a lower section arranged in the upper wall of the cowl of a vehicle, a section superimposed on the first section, interlocking walls at the meeting line of the two sections to prevent passage of water to the casing formed by the sections, a transparent panel mounted in the front wall of the upper section, and signal means within the casing visible through transparent plate.

1,385,231. PROCESS OF MAKING HUBS. MAX SKOLNIK, Minneapolis, Minn. Filed Mar. 8, 1920. Serial No. 364,286. 2 Claims. (Cl. 29—174.)



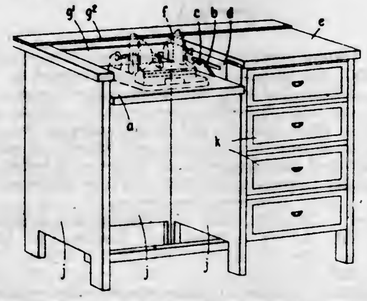
1. The process of making hubs consisting in shaping complemental hub members so that when placed together socket portions and contacting portions occur alternately, then securing together said contacting portions, and shrinking said hub members upon a sleeve.

1,385,232. RUNNING-BOARD FOR MOTOR-VEHICLES. FREDERICK SMITH, London, Ontario, Canada. Filed Feb. 28, 1920. Serial No. 362,017. 2 Claims. (Cl. 286—169.)



1. A running board for motor vehicles comprising a grilled tread, a solid bottom below the tread, and spacing members interposed between the bottom and the under side of the tread.

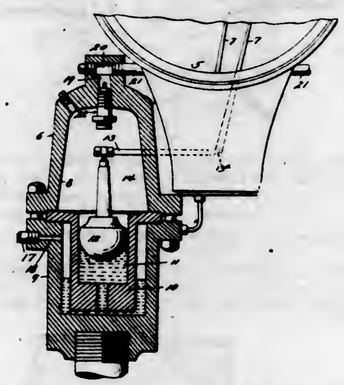
1,385,233. DESK, TABLE, AND LIKE OFFICE FURNITURE. WILFRED STAFFORD, London, England, assignor of one-half to William Davies, London, England. Filed Nov. 23, 1920. Serial No. 426,029. 3 Claims. (Cl. 45—52.)



1. A desk comprising a rotatable top part, lugs secured to the said top part and having stud receiving holes formed therein in alinement and offset from one surface of the said top part, a top supporting part, slotted plates secured

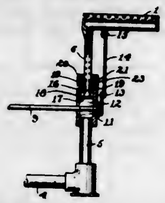
to the said top supporting part, studs slidably carried in the slots in the said plates and extending into the holes in the said lugs to form pivotal supports therefor, springs urging the said studs toward the ends of the slots and battens carried by the top supporting part forming a slot to receive one edge of the top part.

1,385,234. ATTACHMENT FOR DIFFERENTIAL AND STATIC PRESSURE GAGES. HENRY P. WESTCOTT, Erie, Pa. Filed June 24, 1919. Serial No. 306,397. 3 Claims. (Cl. 73—31.)



1. The combination with a differential pressure gage organization of the class specified having a float chamber and an inclosure chamber thereover, and movable support for the float above the latter, the chambers being provided with an inlet and outlet and a loosely operating normally open check valve mounted in the outlet and having a movable closure part adapted to be engaged by a portion of the support of the float to close the said outlet when the float is subjected to excessive pressure.

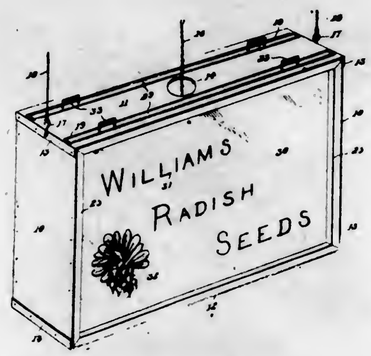
1,385,235. POULTRY-HOVER. AUGUST WESTMAN, Quincy, Ill., assignor of one-half to Edward A. Westman, St. Louis, Mo. Filed Nov. 6, 1920. Serial No. 422,162. 5 Claims. (Cl. 158—42.)



1. A heating apparatus for poultry hovers comprising a movable fuel burner, a fuel inlet pipe carried by the burner and provided with inlet ports, hollow means connecting the inlet pipe with a source of fuel supply and forming a valve chamber, and means engaging the fuel burner for moving the same as a unit whereby to adjust the position of the ports in the inlet pipe with respect to the chamber to regulate the flow of fuel to the burner.

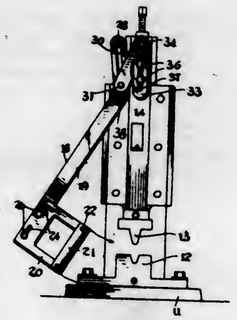
1,385,236. CHANGEABLE ILLUMINATED DISPLAY DEVICE. LYONS H. WILLIAMS, Norfolk, Va. Filed Mar. 9, 1920. Serial No. 364,452. 1 Claim. (Cl. 40—132.)

A device of the class described comprising a metal rectangular frame with top, bottom and ends, the top of the frame having a central opening adapted for the reception of a lamp therethrough, and with a longitudinal slot having inwardly projecting oppositely positioned marginal flanges adapted for the guiding reception of a sign when positioned within the frame, upright guide strips secured to the ends of the frame between the top and bottom thereof with the inner one of said flanges countersunk in the



upper end portions of said strips and a rectangular stay closely fitted within the open side of the frame having a longitudinal groove in the upper rail of the stay snugly receiving the outer flange of the slot when the device is assembled with the outer face of the stay flush with the adjacent edges of the top, bottom and ends of the frame.

1,385,237. GUARD FOR PUNCHING-MACHINES. SAMUEL BAKER WOODWARD, Trenton, N. J. Filed May 17, 1921. Serial No. 470,393. 6 Claims. (Cl. 74—105.)

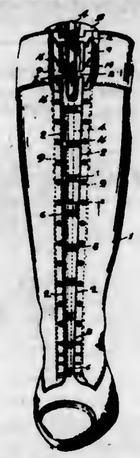


1. A guard for punching machines comprising an arm having its rear portion formed with a diagonally extending branch having a longitudinal slot, a link having a pivot bolt adjustable in said slot, a pivot element engaged with said arm in advance of said slot, an attaching plate having a longitudinal slot, attaching bolts extending through said second named longitudinal slot and securing the attaching plate in position for vertical adjustment for varying the throw of said arm, a pivot pin connecting one end of said link to said attaching plate, and a sweeper adjustably connected to said arm.

1,385,238. SHOE-LACING DEVICE. JOHN H. ANTHON, San Francisco, Calif. Filed Mar. 19, 1921. Serial No. 453,856. 6 Claims. (Cl. 24—205.)

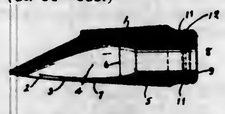
3. The combination with a shoe of a pair of substantially parallel members slidably mounted within the stays of said shoe and detachably and adjustably connected to each other, each member having slots therein oppositely inclined to the slots of the opposite members each of said slots having offset locking portions; pins mounted within said stays and projecting through slots in their respective

members; and means for moving said members to cause the inclined slots therein to move said pins toward each



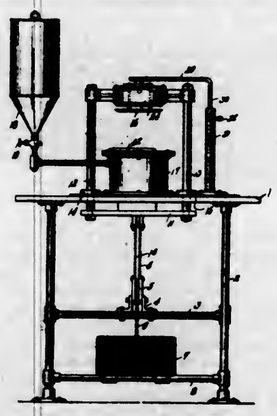
other and into the offset locking portions of the slots to fasten said stays.

1,385,239. MOUTHPIECE FOR WIND MUSICAL INSTRUMENTS. MARVIN H. BABBITT and JESSE BABBITT, Elkhart, Ind. Filed Dec. 11, 1919. Serial No. 344,196. 6 Claims. (Cl. 84—383.)



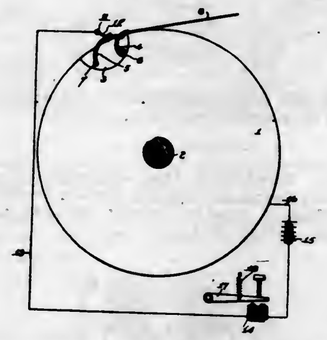
1. A mouthpiece for wind musical instruments of the class described comprising a tubular body provided with a lateral orifice adjacent one end thereof and a bore at the opposite end thereof; and a separate tubular bushing arranged within said body bore, the forward end of said bushing terminating between the inner end of said lateral orifice and the outer end of said body bore.

1,385,240. MACHINE FOR MAKING HAT-LINING TIPS. RUBIN BELL, New York, N. Y. Filed July 12, 1920. Serial No. 395,633. 8 Claims. (Cl. 154—1.)



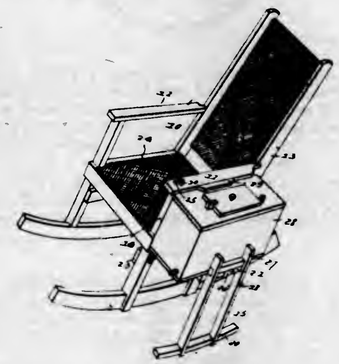
2. A device of the character described comprising a presser head, a die for pressing a hat lining tip thereon, means for moistening said tip as it is being pressed, and means for ejecting or removing the tip from the die after the pressing operation.

1,385,241. AUTOMATIC TRIP-MOTION. MAURICE BERNAUDIN, New York, N. Y. Filed Mar. 3, 1921. Serial No. 449,557. 4 Claims. (Cl. 101—233.)



1. A tripping device for printing presses, which comprises a roll, paper gripping means disposed thereon, paper ejecting means disposed thereon, and means attached to the paper ejecting means to make metallic contact between the gripping means and the ejecting means when a sheet of paper is not gripped.

1,385,242. CHAIR-OPERATED CHURN. MOSES W. CARDEN, Opelika, Ala. Filed Dec. 9, 1919. Serial No. 343,591. 3 Claims. (Cl. 155—69.)

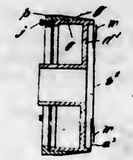


1. A rocking chair having an auxiliary rocker supported extension mounted for sliding movement thereon and provided with a table or rest for a churn body, said rocker element being provided at its outer end with means for preventing outward displacement of a churn body with reference to the rest, and a movable locking element mounted upon the chair for overlapping engagement with a churn body arranged upon said seat for holding the latter in position thereon.

1,385,243. DIAPHRAGM FOR GRAMOPHONES, PHONOGRAPHS, TELEPHONES, AND THE LIKE. ARTHUR THOMAS COLLIER, St. Albans, England. Filed Sept. 26, 1919. Serial No. 326,622. 3 Claims. (Cl. 181—32.)

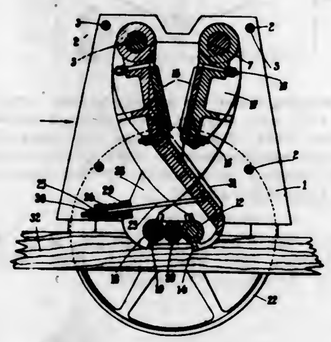
1. A sound recording or reproducing diaphragm comprising a flat apertured outer part of a supple material

which is sonorous when stretched, and a flat inner part of a more rigid material closing the aperture in the first-



mentioned part and having its outer margin firmly connected to the margin around the said aperture.

1,385,244. VIBRATORY-JAW CRUSHER. CHARLES MARKHAM CONDER and GODFREY TWYNAM VIVIAN, Camborne, England. Filed Jan. 26, 1921. Serial No. 440,227. 3 Claims. (Cl. 83—53.)



1. A crushing machine comprising a frame, crushing jaws pivotally mounted in said frame, rollers carried one by each of said jaws, a cam engaging said rollers so as to spread said jaws apart at intervals, said rollers being so constructed that one roller bears against one portion of the cam on the rotation thereof, while a second roller bears against a portion of the cam which is not brought into engagement with the first roller, means for rotating said cam, and means for drawing the crushing jaws together.

1,385,245. COMPOSITION FOR DETONATORS. RUSSELL M. COOK and BENNETT GROTTA, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed Mar. 31, 1921. Serial No. 457,500. 4 Claims. (Cl. 52—4.)

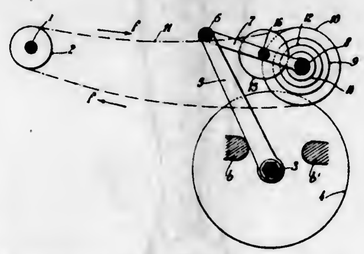
1. A blasting cap charge comprising a mixture of lead azid and trinitrophenylmethylnitroamin.

1,385,246. FOOD PRODUCT AND PROCESS OF PREPARING SAME. RALPH W. CROCKER, Chicago, Ill. Filed May 26, 1919. Serial No. 299,897. 5 Claims. (Cl. 99—11.)

2. A method of preparing and preserving food for market, comprising thoroughly beating eggs with milk, arranging a solid food ingredient on a support; pouring some of the egg and milk mixture upon said solid food and its support, thereby inclosing the solid food; and causing the mixture thus poured to become colloidal and thus to fix the relative positions of parts of the solid ingredient; and sealing and sterilizing the whole in cans.

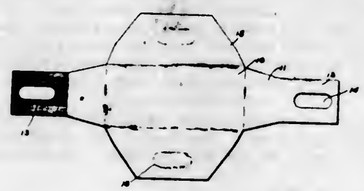
5. A new article of manufacture consisting of a hermetically sealed can of colloidal egg and milk food containing a small quantity of the product resulting from the dissemination, prior to the colloidal formation, of a relatively very small quantity of flour disseminated throughout its mass.

1,385,247. MECHANICAL TRANSMISSION. DÉSIRÉ PIERRE DEMARNE, Issy-les-Moulineaux, France. Filed May 14, 1917. Serial No. 168,535. 1 Claim. (Cl. 74—21.)



The combination with a driving shaft, of a main driven shaft and an intermediate driven shaft, a pulley on the driving shaft and a pulley on the intermediate shaft, a flexible transmission member extending between the same, a toothed wheel secured to the main driven shaft, a connecting rod loosely mounted on the main driven shaft, a second connecting rod pivoted to the end of the first mentioned connecting rod and carrying the intermediate driven shaft at its free end, a gear mounted on the intermediate driven shaft and adapted to mesh with the toothed wheel on the main driven shaft, and a reversing gear carried by the second connecting rod.

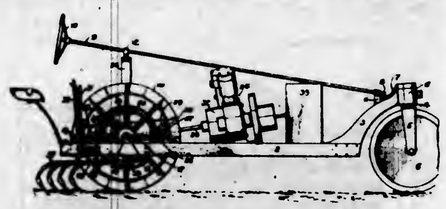
1,385,248. ENVELOP. JERROLD PARRILL DE VAUGHN, Buffalo, N. Y. Filed May 22, 1919. Serial No. 298,998. 4 Claims. (Cl. 229—73.)



1. An envelop comprising a body having overlapped flaps having registering openings when so overlapped, and a closing flap attached to said body and adapted to be inserted underneath said first flaps, said closing flap presenting a surface for an address, said first-mentioned flaps being arranged to render said address-surface of said closing flap visible when said closing flap is in position underneath said registering openings.

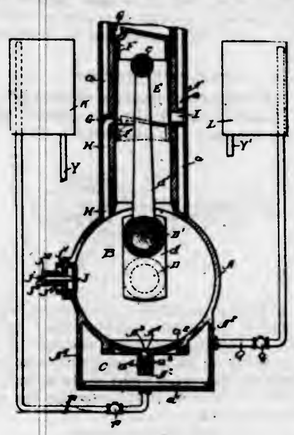
1,385,249. TRACTOR. STANLEY R. DU BRIE, Detroit, Mich., assignor to Edward H. Kramer, Detroit, Mich. Filed Nov. 4, 1918, Serial No. 261,092. Renewed Dec. 1, 1920. Serial No. 427,658. 2 Claims. (Cl. 180—25.)

1. A tractor comprising a main frame, and upwardly and forwardly extending head piece carried by said frame, a steering wheel having a turning post in the forward end thereof, a sector gear carried by the post of said steering wheel, a traction wheel at the rear end of said frame and alining with said steering wheel, and supporting said frame below the axis of said wheel, a power plant intermediate said wheels and in alinement therewith, a reduction gearing intermediate said traction wheel and said power plant and adapted for transmitting power to said traction wheel, a side yoke carried by said frame, a third wheel entirely outside of said yoke and supporting said



yoke, a bracket carried by said yoke, a bearing on said head piece in alinement with said bracket, a steering shaft journaled in said bearing and said bracket, and a beveled gear wheel on said shaft and meshing with said sector gear adapted for turning the post of said steering wheel.

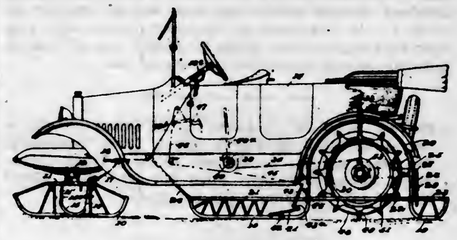
1,385,250. TWO-CYCLE ENGINE. WALDO G. GERNANDT, South Bend, Ind., assignor to Gernandt Motor Corporation, Chicago, Ill., a Corporation of Illinois. Filed July 29, 1920. Serial No. 399,745. 3 Claims. (Cl. 123—196.)



1. In a two cycle engine which is provided with a fuel tank and a lubricating oil tank, the combination of a crank case chamber, a chamber positioned below said crank case chamber, a passage way between said chambers, means to obstruct communication in said passage way between said last chamber and said first chamber, and to yieldingly obstruct communication from said first chamber and said last chamber, a passage way arranged to convey lubricating oil and pressure from said last chamber to said lubricating oil tank, and an additional passage way arranged to convey gases and pressure from said last chamber to said fuel tank.

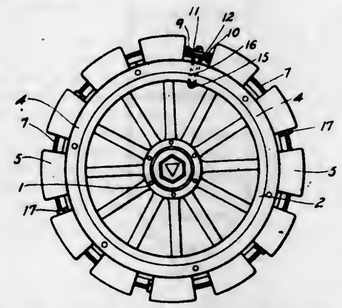
1,385,251. MOTOR-VEHICLE SLEIGH. WILLIAM B. JENKINS, Barber, Idaho. Filed Aug. 7, 1919. Serial No. 315,882. 4 Claims. (Cl. 180—6.)

1. The combination with a motor vehicle, of a front sleigh truck operatively connected with the front spindles of the vehicle, a rear sleigh truck, means connecting the forward end of the rear truck with the vehicle, means connecting the rear end of said rear truck with the rear end of the vehicle and holding the rear end of the vehicle against forward and rearward movement as well as transverse movement with respect to the rear truck but permitting vertical movement of the rear end portion of the vehicle with respect to the rear truck, and flexible suspen-



sion means supporting the rear end portion of the vehicle to hang from the rear truck.

1,385,252. TIRE. WINDOM L. KEMPER, Topeka, Kans. Filed July 12, 1920. Serial No. 395,617. 4 Claims. (Cl. 152—23.)



1. A tire comprising a plurality of rubber blocks, flexible connections between the blocks, means for securing the flexible connections to the blocks comprising transverse rods around which the flexible connections engage, and means for securing the tire to the wheel, said means having a portion to engage the tire stem opening in the wheel rim.
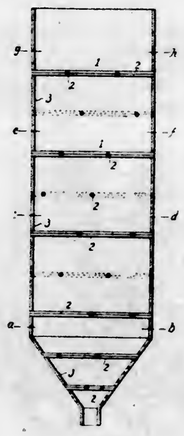
1,385,253. GAS-METER. ERNEST A. KERSTEIN, Union, N. J., assignor to American Meter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 27, 1919. Serial No. 279,508. 3 Claims. (Cl. 73—1.)



1. In a meter having bellows embodying a flexible diaphragm and a metal disk attached thereto and pre-

seating a flat face, and gearage for operating the registering mechanism, means for attaching such gearage to said disk comprising gearage posts, and a base plate having openings through which said posts extend and are secured to the base plate at the rear thereof, said base plate having an edge which is turned toward and is soldered edgewise to the flat face of said disk.

1,385,254. SILO OR FILLING-TRUNK FOR POWDERED OR GRANULAR MATTER. KARL LÜFT, Darmstadt, Germany, assignor to the firm RÖHM & HAAS, Darmstadt, Hessia, Germany. Filed Nov. 11, 1920. Serial No. 423,458. 2 Claims. (Cl. 83—52.)



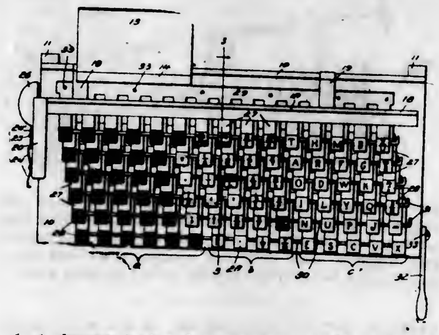
1. An apparatus of the character described, comprising a trunk open at the top and having a discharge at the bottom, and a plurality of angularly arranged bars in the trunk for breaking up the material, the bars being disposed irregularly and in spaced relation to one another and to the sides of the trunk so that the material will not be supported thereon, the spaces provided by the bars, through which the material passes, being angular.

1,385,255. COWL-VENTILATOR FOR MOTOR-VEHICLES. FRED L. LUNT and PAUL F. HATCH, Amesbury, Mass., assignors to Amesbury Seat Manufacturing Company, Amesbury, Mass., a Copartnership composed of W. E. Bassett, Fred L. Lunt, and Paul F. Hatch. Filed Nov. 26, 1920. Serial No. 426,431. 1 Claim. (Cl. 180—69.)



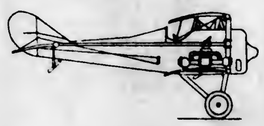
In a cowl ventilator for motor vehicles, a cowl having a ventilator opening in the top thereof, a lining for said opening having an inward trough extension provided with a water outlet, a cover fitting in said opening and having its top surface flush with the top surface of the cowl and provided with a rubber insert extending peripherally around its bottom and resting upon the free edge of said trough extension.

1,385,256. DUMMY KEYBOARD. JOSEPH W. MCCANN, Washington, D. C., assignor, by direct and mesne assignments, of one-half to Joseph H. McCann and one-half to George P. Kimmel, Washington, D. C. Filed Feb. 23, 1921. Serial No. 447,050. 13 Claims. (Cl. 35—16.)



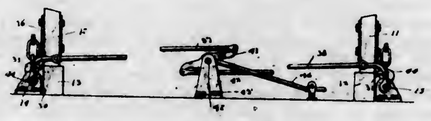
1. A dummy keyboard comprising a body having an upper surface arranged to form an inclined plane, rows of keys resiliently pivoted directly to the inclined plane of said body, and a unitary member constituting a resilient means associated with each row of said keys for limiting their pivotal movement and to facilitate the action thereof.

1,385,257. GENERATOR. DONALD W. MCLEAN, Glencoe, Ontario, Canada. Filed Oct. 12, 1920. Serial No. 416,484. 9 Claims. (Cl. 244—18.)



1. In a generator a cylinder, a pair of pistons one operating within the other, a water space between the pistons, one of the pistons being designed to compress vaporized gasolene to an ignition point, and the second piston to deliver compressed water to the burning gasolene to absorb the heat therefrom and vaporize the water substantially as described.

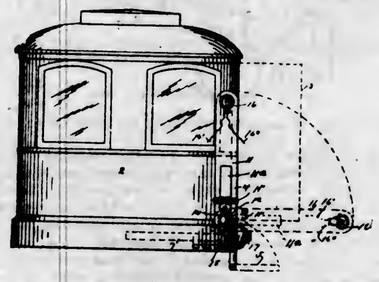
1,385,258. LIFEBOAT-SUPPORTING APPARATUS. DONALD MACBETH, Montreal, Quebec, Canada. Filed Dec. 26, 1919. Serial No. 347,418. 1 Claim. (Cl. 9—22.)



Life boat supporting apparatus, comprising spaced transverse bars having flat upper surfaces, bearings arranged in proximity to the outer faces of each of said bars in parallel relation thereto, shafts mounted in said bearings, spaced substantially right angular arms fixed to said shafts, saddles carried by the free portion of said arms adapted, at times, to rest on the flat upper surfaces of the bars, keel supporting members fixedly supported on said shafts having flat bracket portions on their free ends formed on certain of the sides thereof with upstanding flanges adapted for engagement with the boat keel to prevent lateral shifting of the same on the cradles, anchoring means engageable with the gunwales of the boat,

means on said shafts for connecting the same to the anchoring means, and a common means for collectively operating said cradles, keel supporting members and anchoring engaging means.

1,385,259. SAFETY APPLIANCE FOR STREET-CARS. FRANK D. MACDONALD, Syracuse, N. Y. Filed Oct. 23, 1919. Serial No. 332,767. 4 Claims. (Cl. 105—341.)

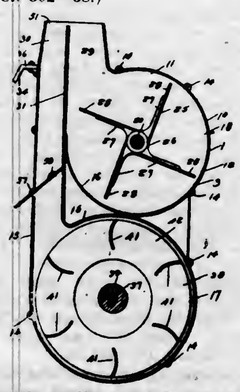


1. In a safety device for street cars, the combination with the door opening and closing mechanism, of a guard mounted on the rear-end of the car, a shaft pivotally supporting said guard, a pinion on said shaft, and a segment gear driving said shaft, said gear rigidly mounted on a rotating member of the door opening and closing mechanism.

1,385,260. SUPPORT FOR AIR-PUMPS OF BICYCLES AND LIKE VEHICLES. ALESSANDRO MOSCA, Turin, Italy. Filed Dec. 10, 1920. Serial No. 429,794. 4 Claims. (Cl. 208—45.)

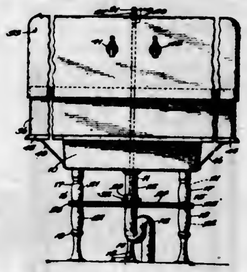
1. A device for carrying the air pump for tires of bicycles and other vehicles, comprising a fixed center and a movable bolt between which the pump is placed in position, characterized in this that the fixing bolt is placed under the control of a lock, and can be opened only by means of a key which is suitable for operating the locking mechanism.

1,385,261. BLOWER. JOHN WILLIAM MUNTZ, Holgate, Ohio. Filed July 29, 1919. Serial No. 314,120. 3 Claims. (Cl. 302—38.)



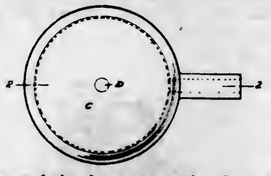
1. A pneumatic appliance of the character specified comprising a fan blower, a conduit in communication with the fan blower and having a lateral opening, and a valve pivoted at one side of the conduit in line with the opening thereof and extending across the conduit at a relatively upwardly and forwardly inclination.

1,385,262. ADJUSTABLE SINK. KURT NEBEL, Chicago, Ill. Filed Mar. 18, 1920. Serial No. 366,768. 4 Claims. (Cl. 4—36.)



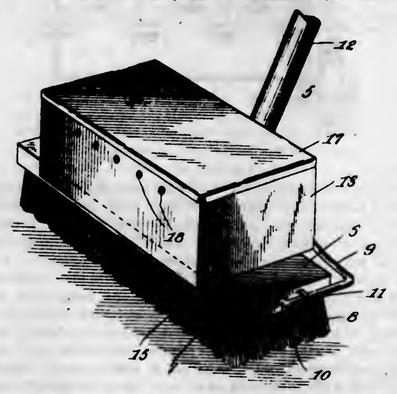
1. The combination with a sink or the like, of a splash board hung from a wall adjacent the sink, a supporting device for the sink comprising a geared rotatable adjusting member, a pinion held in mesh with the gear of said member, and a pinion rotating shaft extending to a point above said splash board and having its upper end formed for engagement by a wrench.

1,385,263. BURNER FOR PETROL AIR-GAS. GEORGE HORATIO NELSON and HUBERT ELWELL SMITH, London, England. Filed Mar. 19, 1921. Serial No. 453,852. 4 Claims. (Cl. 158—112.)



1. A burner of circular cross section for petrol air gas, an outlet therefrom, layers of wire gauze filling said outlet and so arranged that the flow of gas is substantially parallel to the planes of the layers, which are radial to the cross section of the burner.

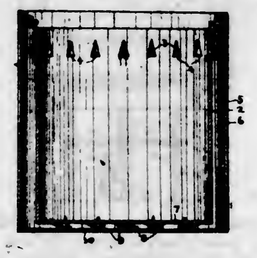
1,385,264. SCRUBBING-BRUSH. CHARLES FREDERICK OLIVIER, Sherbrooke, Quebec, Canada. Filed Dec. 9, 1920. Serial No. 429,444. 2 Claims. (Cl. 15—51.)



1. In a device of the character described, the combination of a brush and a container, a handle for said brush,

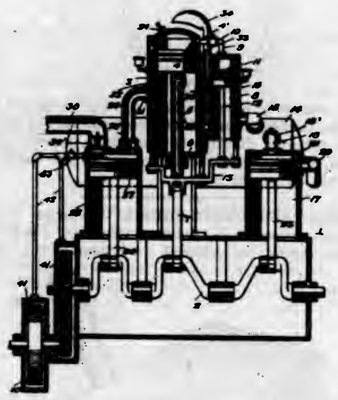
the bottom of said container being punched upwardly forming sharpened projections within said container, constituting a soap shaving means, said container projecting beyond the forward edge of the brush and having a series of openings in advance of the brush, and a cover for said container.

1,385,265. COOKING UTENSIL. CARL OLSON, Foster City, Mich. Filed Sept. 20, 1920. Serial No. 411,451. 2 Claims. (Cl. 53—1.)



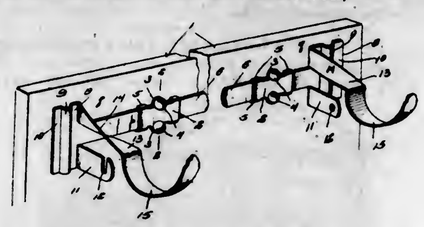
2. The combination of an outer and an inner kettle, said inner vessel having its sides and bottom spaced apart from the sides and bottom of said outer vessel, and a series of laterally projected and downwardly directed openings near the top and downwardly and angularly directed openings in the bottom of said inner vessel.

1,385,266. ENGINE. ELIAS HARRY PALMER, Charleston, S. C. Filed Mar. 19, 1920. Serial No. 367,278. 1 Claim. (Cl. 60—32.)



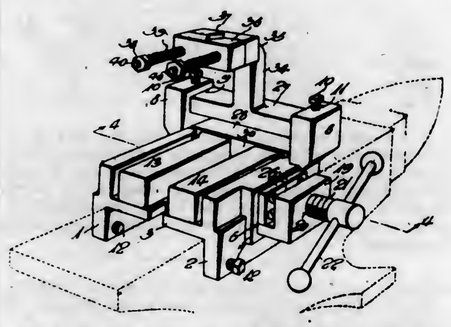
An engine of the class described comprising a cylinder having both ends closed, a piston in said cylinder having its rod passing through the lower end thereof, a crank rod connected with the piston rod, a feeding cylinder connected with said cylinder, a storage tank connected with the feeding cylinder, a compressor cylinder connected with the tank, a carbureter to which the compressor cylinder is connected, pistons in said compressor cylinder and feeding cylinder, means for connecting said pistons with the crank shaft, a vacuum cylinder connected with said first mentioned cylinder, a piston in said vacuum cylinder connected with the crank shaft and valves for controlling the passage of fluid through the cylinders.

1,385,267. CURTAIN AND SHADE HOLDER. MARTIN PANSNER, Schenectady, N. Y. Filed Nov. 15, 1920. Serial No. 424,235. 2 Claims. (Cl. 156—24.)



2. A fixture for window casings, including a fixed section comprising a plate centrally formed on its edges with outwardly extending ears, screws passing through the ears and entering the trim of the window casing, inwardly extended guides on the edges of the plate at the corners thereof, the movable section including an arm which is received through the guides of the fixed section and which has its edges in contacting engagement with the securing screws of the fixed section, said movable section having its outer end formed with a lateral extension providing a head, said head being channeled from its inner face to provide an outer bead and a spring rib extending from said bead and in contacting engagement with the trim of the window casing, an outwardly extending right angularly disposed bracket formed on the inner and lower edge of the head, a twisted extension on the upper and inner edge of the head, and said extension terminating in a hook.

1,385,268. ANVIL-VISE. ANTON C. PAULSON, Fargo, N. D. Filed Dec. 20, 1920. Serial No. 431,979. 11 Claims. (Cl. 81—26.)



2. An anvil vise comprising a body having side walls and a connecting web intermediate the height of the side walls for resting upon the upper face of an anvil with the lower portions of the side walls engaging the sides of the anvil, the side walls having oppositely disposed openings intermediate the length of the body, and the web having a transversely extending slot extending from the opening of one wall to a point adjacent the second wall, a carriage bar slidably mounted in the slot and extending through the openings, a jaw rigid with the bar between the side walls, a separate jaw between the side walls resting upon the web and bar, and an actuating screw having threaded engagement with the bar and swiveled connection with the separate jaw.

1,385,269. CONSTRUCTION OF THE PERMANENT WAY FOR RAILWAY-CARRIAGES OF LARGE CAPACITY. GUSTAVE PERRIER and GUSTAVE JOLIVET, Paris, France. Filed Mar. 14, 1919. Serial No. 282,688. 9 Claims. (Cl. 238—7.)

1. A compound railway rail, comprising web side portions having base portions and top flanged portions, means securing said web portions together, a removable tread having side flange portions adapted to be seated on the top



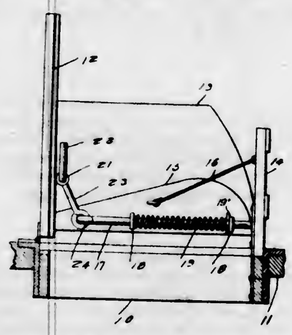
flanges of said web portions and means for fastening said tread flanges to said top web flanges.

1,385,270. MEASURING DEVICE. HOLGER S. PETERSEN, Brooklyn, N. Y. Filed Aug. 8, 1918, Serial No. 248,925. Renewed June 15, 1921. Serial No. 477,866. 2 Claims. (Cl. 73—120.)



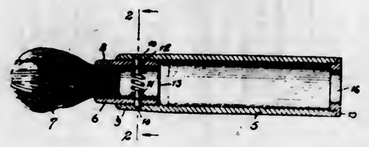
2. A liquid measuring device comprising a plug having an opening therethrough, a transparent tube secured to the plug in axial alinement with said opening and having an open-tapered free end adapted for extending into the liquid to be measured, a stem slidably positioned through said opening extending outwardly of the plug, and a valve upon the inner end of said stem adapted for closing said opening when the stem is retracted.

1,385,271. TRAP-DOOR GUARD. CHARLES PETERSON, Leal, N. D. Filed Dec. 10, 1919. Serial No. 343,799. 5 Claims. (Cl. 94—38.)



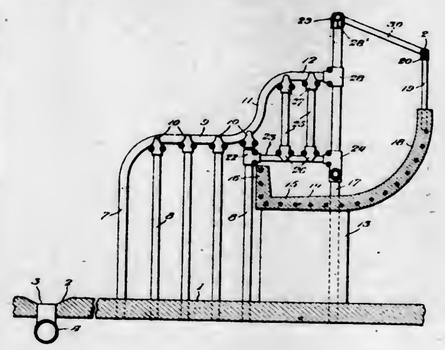
3. The combination with a structure having an opening formed therein and a closure door hingedly mounted at one side of the opening, of a guard hingedly mounted at the opposite side of the opening, a rigid guard carried by said door and extending for engagement with the hingedly mounted guard, a latch carried by the rigid guard for engaging the hingedly mounted guard when the door and guard are in a raised position, and means for moving said latch to an inoperative position.

1,385,272. BRUSH. SIMEON DESMOND PURDY, Fairville, New Brunswick, Canada, assignor of one-half to T. S. Simms & Company, Limited, Fairville, New Brunswick, Canada, a Corporation of Canada. Filed Jan. 7, 1921. Serial No. 435,717. 7 Claims. (Cl. 15—38.)



1. In a brush of the type described, a tubular casing having an arcuate notch formed in the inner face of its wall, a brush-carrying ferrule slidable within said casing, and a latching element carried by the ferrule and spring pressed outward to engage said notch and thus to hold the ferrule in brush-exposing position.

1,385,273. STALL. JAMES K. PUTT, Hershey, Pa. Filed June 22, 1920. Serial No. 390,844. 2 Claims. (Cl. 119—27.)

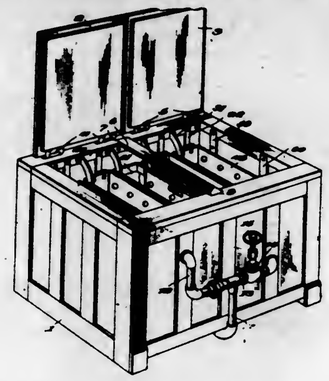


1. In a stall construction for stables, a reinforcing concrete floor, spaced reinforcing concrete standards arising therefrom at the front of the stalls, a reinforcing concrete trough resting on the upper edges of said standards, said trough having an upstanding rear portion and its front rounded upwardly from the standards, members embedded in the floor, and one of said members passing through the trough and standards for reinforcing the latter and for providing the stable with stalls.

1,385,274. ICE-BOX. JOSEPH MILES RHODES, Halls, Tenn. Filed May 3, 1920. Serial No. 378,500. 7 Claims. (Cl. 217—7.)

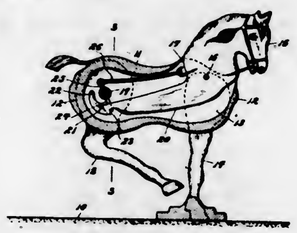
1. In an ice box, a chest having an open upper end, closure means for the open end of the chest, sectional bottom units removable from the chest, sectional guide means respectively connected to said bottom sections,

means for detachably connecting said guide means at the upper end of the chest, and supports for articles remov-



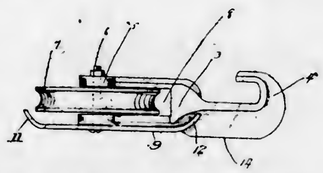
ably held between said guide means and independent of the same, substantially as described.

1,385,275. TOY. JAMES E. ROGERS, Cleveland, Ohio, assignor of one-half to George E. Black, Cleveland, Ohio. Filed Aug. 27, 1920. Serial No. 406,277. 2 Claims. (Cl. 46—40.)



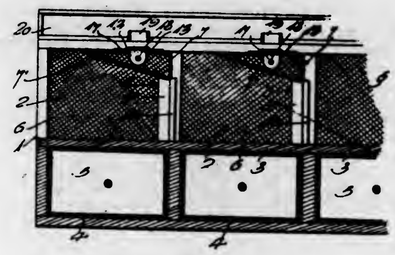
1. A toy comprising a body, an actuating member mounted to swing on the body, a spindle journaled on the body, a movable member carried by the spindle, a stirrup projecting from the spindle, an extension actuating member, a trigger formed on the extension to engage with the stirrup, a guide on the extension for guiding the stirrup relative to the trigger and a tension member connecting with the actuating member and said spindle.

1,385,276. PULLEY. J FRASER ROSE, Trenton, Nova Scotia, Canada. Filed Aug. 9, 1920. Serial No. 402,476. 2 Claims. (Cl. 254—197.)



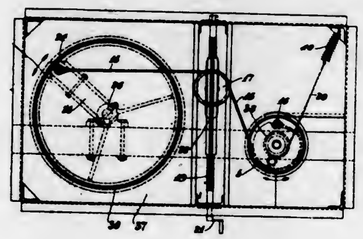
1. A pulley block consisting of a body member, an outwardly extending hook-shaped member, said hook-shaped member being provided with a ridge, the opposite end of said body portion being bifurcated, annular openings formed in the ends of said bifurcated end, a bolt passing through said openings, a pulley wheel mounted on said bolt, a shield independent of said body member and fitted to the under side of said bifurcated end and being held thereto by said bolt, one end of said shield being bent upwardly of the outer side of said wheel and the other side being slotted and bent upwardly of said hooked portion.

1,385,277. CHAT-SEPARATOR FOR CONCENTRATING-JIGS. ALFRED H. RUDGE, Newark, N. J. Filed Nov. 5, 1920. Serial No. 422,033. 2 Claims. (Cl. 83—58.)



1. A separator comprising a housing having an outlet intermediate its height, and a hollow arm extending from the housing and communicating with the interior thereof, the arm and housing each having an inner wall terminating intermediate the level of the outlet, and the level of the lower edge of its outer wall.

1,385,278. MACHINE FOR BENDING METAL BARS AND THE LIKE. KARL GUSTAV MAGNUS RUNBÄCK, Stockholm, Sweden. Filed Jan. 5, 1920. Serial No. 349,485. 5 Claims. (Cl. 153—46.)

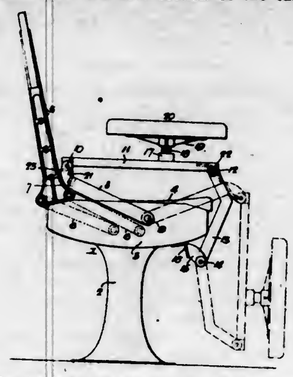


1. In a machine for bending metal bars and the like, the combination of two stationary supports for the bar, a third rotatable support for said bar, a rotatable disk supporting said third support, a rope secured to and wound around said disk, a rotary crank to which said rope is attached, and driving means for said crank.

1,385,279. CAR-SEAT. BERNARD SCHECHTER, St. Louis, Mo., assignor to American Car Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 24, 1921. Serial No. 447,501. 3 Claims. (Cl. 155—10.)

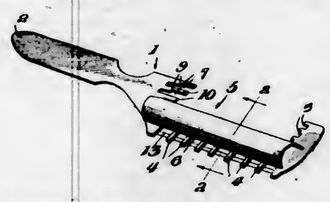
1. The combination of a car seat having a movable back arranged to be shifted to either side of the seat structure; a seat carrying frame; links connecting the seat structure to the frame independently of the back,

said carrying frame being arranged to be moved into position, either above the seat section of the car seat, or



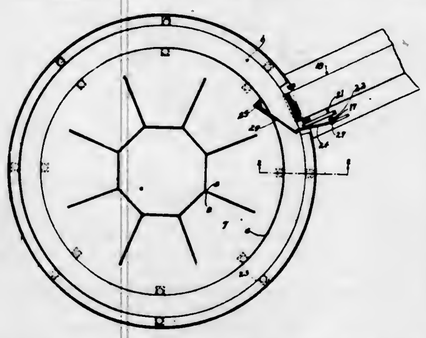
to one side thereof; and a motorman's seat carried by the seat frame.

1,385,280. RAZOR. GEORGE S. SIEBEN, Oak Bluffs, Mass., assignor of one-half to Coleman A. Church, Oak Bluffs, Mass. Filed Sept. 3, 1920. Serial No. 407,845. 4 Claims. (Cl. 30—12.)



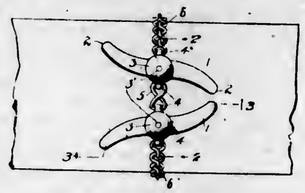
1. In a combined hair cutter and safety razor, a frame having a handle and a comb, said frame being cut away above the comb, opposed notches forming fingers in the cut away portion of the frame, and a resilient holder and blade adapted to be retained by any of the opposed fingers.

1,385,281. CONVEYER. WILMONT C. SMILEY, Wampum, Pa. Filed Dec. 10, 1919. Serial No. 343,807. 3 Claims. (Cl. 193—1.)



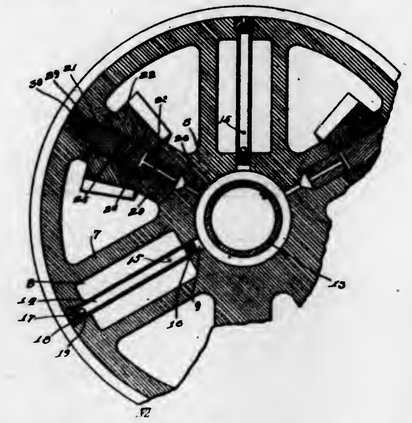
1. The combination with stalls arranged in a circle, an annulus having its periphery contiguous to the stalls, a conveyer having its loading portion adjacent to the annulus, a deflector pivoted adjacent one margin of the annulus at an inclination to its radius and into proximity to the conveyer, means to rotate the annulus, and means to simultaneously oscillate the deflector.

1,385,282. ANTISKIDDING DEVICE. WILMONT C. SMILEY, Wampum, Pa. Filed Sept. 11, 1920. Serial No. 409,703. 6 Claims. (Cl. 152—14.)



2. An anti-skidding attachment for vehicle tires, comprising two longitudinally and transversely curved bars, each of the longitudinal marginal edges of said bars being reversely curved, a link connecting said bars intermediate their ends, and a projection carried by each bar intermediate its ends.

1,385,283. LUBRICATOR. EDWIN B. SMITH and ALBERT H. LOUCKS, Marion, Ind., assignors to The Marion Machine, Foundry and Supply Company, Marion, Ind., a Corporation. Filed Nov. 5, 1920. Serial No. 422,061. 6 Claims. (Cl. 74—34.)



1. In a reversible clutch, a wheel, said wheel having hollow spokes, a hub, said hub having an oil passageway formed therein, a bushing positioned in the hub and forming one wall of the oil passageway, said bushing having openings, gear wheels supporter by the first mentioned wheel, means within the hollow spokes for forcing fluid into the oil passageway, and means to provide communication between the oil passageway and gear wheels to lubricate the same.

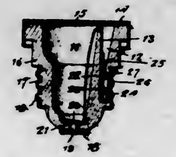
1,385,284. COATING FOR FLONGS. OTTO STRUENSEE, Philadelphia, Pa. Filed Sept. 22, 1920. Serial No. 412,021. 8 Claims. (Cl. 22—189.)

4. A coating for stereotype matrices containing talc; corn flour; and an adhesive material.

1,385,285. FUSE-PLUG. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 23, 1920. Serial No. 368,062. 5 Claims. (Cl. 200—130.)

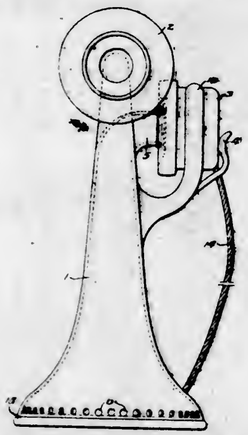
1. A fuse plug comprising an insulating body having a fuse chamber and a well opening therefrom to the ex-

terior of the body, a screw shell side contact closing the exterior opening of said well, a fuse extending into said



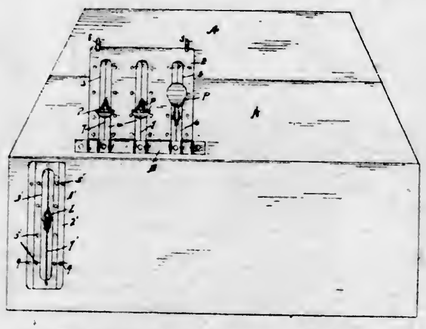
well, and spring means for effecting the electrical connection between said fuse and screw shell.

1,385,286. TELEPHONE. JOHN S. TIMMONS, New York, N. Y. Filed Mar. 25, 1919. Serial No. 284,929. 7 Claims. (Cl. 179—147.)



1. The combination in a telephone instrument of a hollow substantially conical supporting structure having an inlet opening for its small end; a transmitter mounted on said structure; and a receiver removably carried by the structure with its diaphragm normally in a position immediately adjacent the inlet opening to the interior thereof.

1,385,287. FOOTBOARD WEATHER-GUARD. JOSEPH R. VALENTINE and FREDERICK W. AKKIRE, Salt Lake City, Utah. Filed Oct. 4, 1920. Serial No. 414,454. 1 Claim. (Cl. 74—81.)



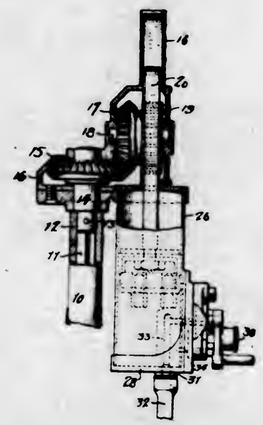
A weather guard for foot boards comprising two flat plates each having open slots therein, a thin strip of rubber secured in place between said plates having slits cut therein parallel with the slots in said plates; thumb buttons to hold one edge of said plates, and a flat bar recessed to receive the opposite edge of said plates and secured to the foot board.

1,385,288. TOOTHPICK-HOLDER. GEORGE W. WALKER, Oakland, Calif. Filed Aug. 30, 1920. Serial No. 406,862. 3 Claims. (Cl. 132—90.)



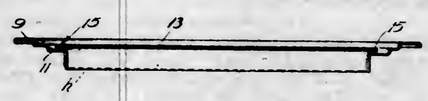
3. A device of the class described, comprising a relatively long container terminating at one end in an open throat, a closure for said throat having an axial bore made to receive and provide a holder for a toothpick so that the toothpick may be manipulated with the container serving as a handle, and means on the container for attaching the same to a watch chain.

1,385,289. PORTABLE ENGINE. FRANK D. WARD, New York, N. Y. Filed Nov. 16, 1917. Serial No. 202,422. 7 Claims. (Cl. 121—38.)



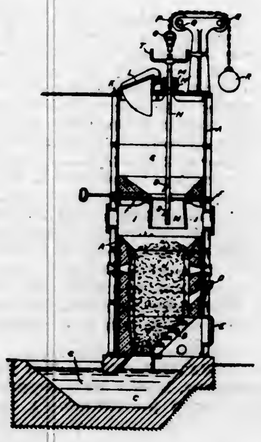
1. A self-contained manually portable engine, comprising a pair of cylinders arranged side by side in parallel, pistons working in said cylinders, a pair of rack bars carried by said pistons and projecting in the same direction therefrom, a pinion interposed between said rack bars and meshing therewith, an oscillating shaft mounted parallel to the axes of the cylinders and to one side thereof, gearing operatively connecting said pinion and shaft to drive the latter, means associated with said shaft for making a quick detachable connection with a driven member, a port adapted to make quick detachable connection with a compressed air pipe, and manually controlled valve means mounted on the opposite side of the cylinders from the oscillating shaft for establishing communication between said port and the respective piston cylinders to drive the pistons simultaneously in opposite directions therein, and thereby impart motion to said shaft.

1,385,290. CAN-CLOSURE. MATTHEW J. WELLING, Chicago, Ill., assignor of one-third to John C. Drabeck, Chicago, Ill. Filed May 29, 1920. Serial No. 385,175. 10 Claims. (Cl. 220—42.)



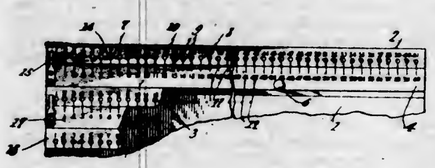
1. A closure for containers formed from a solid blank of metal shaped near its outer edge to provide two juxtaposed flanges carried respectively by an outer portion of the blank adapted to be secured to the wall of the container and by an inner or central portion of the blank, said flanges being severed at their lower edges whereby to constitute the central portion of the blank and its flange a cover element adapted to frictionally engage with the outer portion of the blank and its flange, the latter constituting a seat element.

1,385,291. GAS-PRODUCER. JOHN WELLS, Cairo, Egypt. Filed Nov. 1, 1919. Serial No. 335,078. 1 Claim. (Cl. 48—76.)



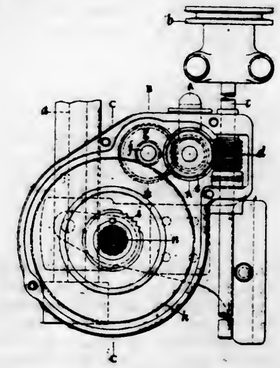
A gas producer having an upper fuel compartment and a lower gas producer chamber, a transverse plate separating the fuel compartment from the producer chamber and formed with an opening, a slide for opening and closing said opening, a bell or cone beneath said opening, a feed rod with helically arranged teeth and means for raising and lowering said rod to feed fuel through said opening.

1,385,292. COUNTER. JOHN EDWARD WHITAKER, Monroe, La. Filed Feb. 24, 1920. Serial No. 360,847. 1 Claim. (Cl. 235—90.)



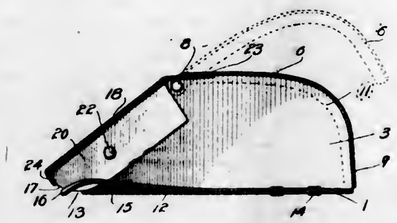
A tally device for keeping pool scores and the like, comprising guides, and a slide mounted for right line reciprocation between the guides, the slide having a scale, and one guide having a scale coöperating with the scale of the slide, the first graduation of the scale on the slide coinciding with the second graduation of the scale on the guide when the end of the slide is flush with the corresponding ends of the guides, there being holes in said guide individual to the graduations of the scale of the guide; a finger on the slide and overlapping the guide having the scale, the finger being disposed in tangential relation to the outer edge of the first of the holes when the first graduation of the scale on the slide coincides with the second graduation of the scale on the guide; and a pin forming a stop coacting with the finger, the pin being insertible into any of the holes.

1,385,293. DRILLING-MACHINE. ISAAC HENRY WRIGHT, Manchester, England, assignor to Smith & Coventry Limited, Salford, Manchester, England. Filed Dec. 16, 1919. Serial No. 345,297. 4 Claims. (Cl. 77—32.)



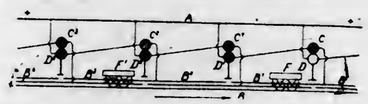
1. In means for giving automatic feed movement to drilling machine spindles, the combination comprising concentric clutch elements disposed respectively within and without each other, a ratchet wheel integral with the inner member and a pawl integral with outer member of the said clutch elements, a pivot supporting said outer member, and means imparting rocking movements to such outer member about the said pivot whereby the engagement and disengagement of the said pawl and ratchet wheel is effected, as set forth.

1,385,294. ICE SHAVER AND CRACKER. JOHN B. ZORN, Kansas City, Mo. Filed May 31, 1921. Serial No. 473,581. 7 Claims. (Cl. 83—62.)



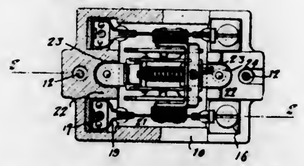
1. In a device of the class described, a receptacle having an opening at one end, a blade projecting through the open end, and a gate for closing said open end pivoted intermediate its ends to the receptacle.

1,385,295. RAILWAY SIGNALING. EMILE PIERRE ANTOINE ABRIC, Paris, France. Filed Sept. 23, 1918. Serial No. 255,317. 5 Claims. (Cl. 246—89.)



1. In block signal apparatus for railroads, in combination, parallel continuous electrical mains, conductors divided into insulated overlapping sections, an electrical connection, including a signal lamp, between each section of said conductors and one of said mains, and means carried by a car for electrically connecting the other main simultaneously to one section of each of said conductors for the purpose set forth.

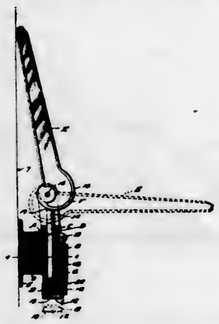
1,385,296. ELECTRIC SWITCH. CARL ERIC ANDERSON, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Oct. 23, 1916. Serial No. 127,146. 1 Claim. (Cl. 200—67.)



An electric switch comprising a cup-shaped rectangular body of insulating material having at its opposite ends ribs extending into the switch chamber, depressed ledges formed by channels in said ribs, a switch frame having a base resting against the bottom of the switch chamber and upwardly angled end lugs overlying said ledges and secured thereto, standards rising from the opposite sides of said base and having open bearings formed therein, a rocker pivoted to said standards adjacent the base; a switch piece pivoted in said open bearings in the standards above the axis of the rocker, a switch spring operatively interposed between said rocker and switch piece, and means for actuating said rocker, for the purpose described.

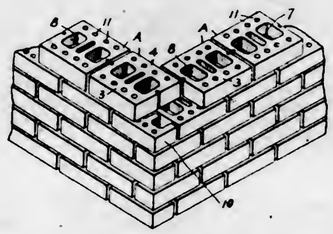
1,385,297. [WITHDRAWN.]

1,385,298. BOTTLE-CAPPING MACHINE. CALVIN L. BEARDSLEY, Rock Island, Ill. Filed June 8, 1920. Serial No. 387,481. 2 Claims. (Cl. 226—84.)



1. A bottle capping machine comprising in combination a support, a die including a stem reciprocable and freely movable circumferentially, with respect to said support, a lever including a cam, carried by said support, the cam engaging said stem, and a device coupling said die to said support and yieldably urging said stem into engagement with said cam.

1,385,299. BUILDING-BRICK AND WALL CONSTRUCTION. GEORGE A. BILQUE, Crafton, Pa., assignor of one-half to J. H. Gloninger, Pittsburgh, Pa. Filed Apr. 19, 1918. Serial No. 229,495. 3 Claims. (Cl. 72—41.)



2. A hollow twin brick structure having two stretcher faces and two header faces, all of said faces having substantially the same dimensions, one of said header faces being provided with a centrally located channel-shaped recess adapted to divide said face into two similar header portions, the sides of said channel-shaped recess intersecting the header face at substantially right angles to form square corners on each of said header portions, and a portion of the inner wall of said recess being formed at substantially right angles to the said side walls thereof to give a definite depth to the recess, said recess also forming a cleavage portion facilitating the breaking of the twin brick structure into two similar standard sized bricks each having a finished stretcher face and a finished header end, and partition walls within the body of the brick on opposite sides of said channel-shaped recess and offset therefrom, said walls extending substantially parallel to said stretcher faces, substantially as described.

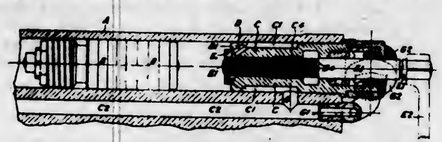
1,385,300. ILLUMINATING DEVICE FOR SWITCHES, &c. KONRAD BOHRDT, Buenos Aires, Argentina. Filed Oct. 13, 1920. Serial No. 416,740. 1 Claim. (Cl. 240—1.)



An illuminating device of the class described comprising a frame consisting of an inner member and an outer member, the inner member being provided at its inner periphery with an outstanding flange defining a shallow recess in the face of the member, the said flange being spaced inwardly from the inner periphery of the outer member of the frame, a luminous substance in the recess, and a transparent means covering the recess and protecting the said substance and engaging at its rear side with the edge of the said flange and at its forward side with the inner face of the outer member of the frame.

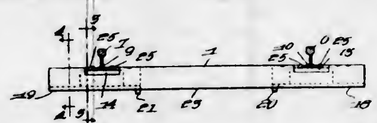
1,385,301. RECOIL APPARATUS FOR ORDNANCE. AXEL BREMBERG and ALEXANDER BANKS, Glasgow, Scotland. Filed June 17, 1920. Serial No. 389,737. 4 Claims. (Cl. 89—43.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A recoil apparatus for ordnance, comprising a cylinder, a floating piston therein subjected on one face to air pressure and on its other face to a pressure liquid, a plug closing the liquid entry end of the cylinder, but affording a chamber communicating with the liquid inlet port, passage means between said chamber and the cylinder, a valve



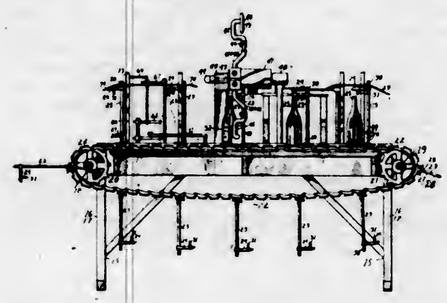
controlling said passage, means for displacing said valve into engagement with the floating piston to support the latter against the air pressure thereon, and a normally closed liquid fill port communicating with the cylinder.

1,385,302. RAILROAD-TIE. LEONARD L. BROWN, Clifton Forge, Va., assignor of one-fourth to Robert E. Robinson and one-fourth to George I. Grasty, Clifton Forge, Va. Filed Mar. 8, 1921. Serial No. 450,760. 7 Claims. (Cl. 238—286.)



6. A metallic tie having transverse recesses, pockets wider than said recesses, formed thereunder and blocks seated in said pockets and projecting above the surface of said recesses and means whereby said blocks may be reversed.

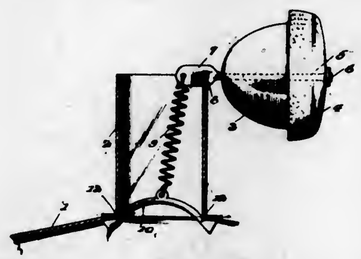
1,385,303. LABELING-MACHINE. LINUS F. BURGHARDT, Westfield, N. Y. Filed June 1, 1920. Serial No. 385,586. 33 Claims. (Cl. 216—55.)



1. In a labeling machine in combination with labeling mechanism, a main conveyer belt for the containers to be labeled, a feed conveyer belt alongside the initial end of said conveyer belt to feed said containers thereonto, a distributing belt alongside the rear end of said conveyer belt, and means to guide said containers onto said main conveyer belt from said feed belt and to remove said containers from said main conveyer belt to said distributing belt and labeling mechanism associated with said main conveyer belt.

1,385,304. AUTOMOBILE-RADIATOR CAP. THOMAS O. BUSSLER, Wheelersburg, Ohio, assignor of one-half to Cecil Nolche, Portsmouth, Ohio. Filed Apr. 24, 1920. Serial No. 376,317. Renewed Dec. 16, 1920. Serial No. 431,274. 2 Claims. (Cl. 220—35.)

2. In combination with an automobile radiator formed with a cylindrical filler neck extending outward therefrom, of a cap for said neck having a substantially spherical body portion, a plate projecting from the inner face of said cap and formed with a notch in its edge, an

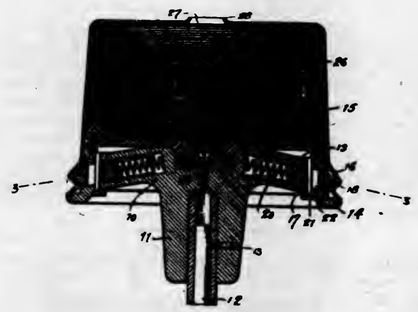


arched arm extending across the base of said neck and formed with notches near its extremities to engage the radiator wall surrounding the neck, and a spring within said neck connecting said plate with said arm.

1,385,305. STORAGE-BATTERY ELECTROLYTE. FRED D. CHENEY, Gypsum, Kans. Filed Mar. 21, 1921. Serial No. 454,280. 2 Claims. (Cl. 204—29.)

1. The herein described composition of matter consisting of water, sulfuric acid, and sodium phosphate, substantially as described, and for the purpose specified.

1,385,306. SPINNING-BOX FOR ARTIFICIAL SILK. JAMES CLAYTON, Coventry, England, assignor to Courtaulds, Ltd., London, England. Filed Apr. 8, 1918. Serial No. 227,348. 6 Claims. (Cl. 118—49.)

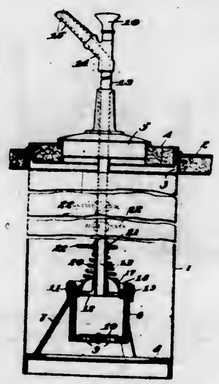


1. A spinning box of the class described comprising a relatively heavy base adapted to be mounted in fixed position on a spinning spindle, and an independent relatively light basket-like cover adapted to rest on said base and form therewith a spinning chamber, and outwardly displaceable means carried by and permanently affixed to the base for detachably securing said cover to the base during the spinning operation.

1,385,307. PUMP. ERNEST L. CONDON, Medway, Mass., assignor to United Soda Fountain Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 7, 1920. Serial No. 349,897. 10 Claims. (Cl. 225—35.)

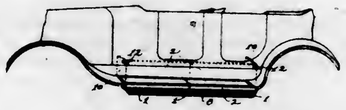
1. A pump comprising a container, an annular cover therefor, a cap for the opening in said cover, a removable pump cylinder in the container, a piston in said cylinder removable through the top of the cylinder without remov-

ing the cylinder from the container, a top for said cylinder normally closing the same but freely removable with the



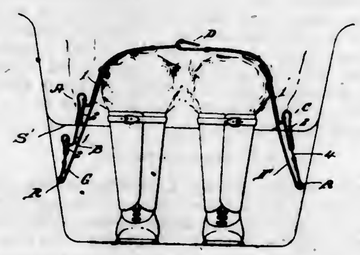
piston therefrom, and a stem fast to the piston extending upward through said cap.

1,385,308. RUNNING-BOARD CARRIER. ISAIAH W. COPELIN, Toledo, Ohio. Filed Dec. 16, 1919. Serial No. 345,227. 3 Claims. (Cl. 280—164.)



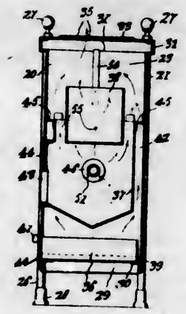
1. In a device of the character described, a running-board, the major portion of which is hinged at its outer edge and capable of assuming either an upright or a horizontal position, and which is flush with the surrounding stationary portion of the running board when in the latter position, in combination with a substructure forming a rigid part of the machine coöperating with the running-board when the latter is raised to form an article-carrier, and covered and concealed thereby when in its normal horizontal position.

1,385,309. ADJUSTING DEVICE FOR BELTS. JOHN H. DAVIS, New York, N. Y. Filed Apr. 17, 1918, Serial No. 229,122. Renewed Nov. 5, 1920. Serial No. 422,075. 7 Claims. (Cl. 24—71.)



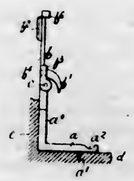
1. In a device of the type described, an adjustable take-up device comprising a hook member and a closed link member pivoted to the end of the hook member and a link slidably engaging the link member; said hook member being adapted to be connected at its free end with one part of a belt, and the link being adapted to be connected with another part of the belt; said link member when in one position forming a link of the belt and extending same, and when turned into position beside the hook member causing the said slidable link to engage the hook member and thus shorten the belt.

1,385,310. GAS-STOVE. JOHN F. DOMHOFF and ROBERT M. SABO, East St. Louis, Ill. Filed Jan. 3, 1921. Serial No. 434,718. 5 Claims. (Cl. 126—20.)



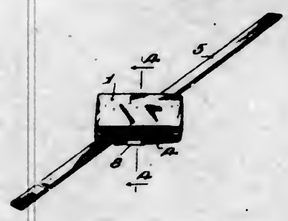
1. A gas stove comprising a stove body open at its top and bottom, a burner arranged in the body, a heating drum surrounding the burner and opening at its lower end through the front of the stove body and being open at its top, and a super-heating drum arranged above the opening in the lower end of said first drum and adapted to be heated by the burning of gases from said burner and adapted to ignite any gases liberated from the burner and tending to rise through said first drum.

1,385,311. FASTENER, SUPPORT, AND THE LIKE. GEORGE CHARLES DUPONT, South Croydon, England, assignor to Philip and Tracey, Limited, Fulham, London, England. Filed Mar. 19, 1921. Serial No. 453,675. 6 Claims. (Cl. 16—26.)



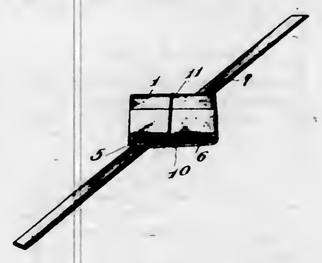
5. A device for attachment to a surface, said device consisting of a member provided with prongs, a flap, a hinge-pin for hinging the said member and flap together, curved prongs mounted on said hinge-pin and operatively engaging said flap so as to move therewith, and means for locking the said member and flap together.

1,385,312. RAILWAY SIGNAL-TORPEDO. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,372. 6 Claims. (Cl. 246—487.)



1. The combination with an angular shaped torpedo case, composed of a folded sheet, of a rail-engaging strap located and held between the folds of the sheet in diagonal relation to the torpedo case, for the purpose described.

1,385,313. RAILWAY SIGNAL-TORPEDO. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,373. 4 Claims. (Cl. 246—487.)



1. A railway signal torpedo having a case, composed of a sheet wrapped around an explosive charge, a rail-engaging member embraced by the final folds of the case, and a string holding the final folds of the case and the strap in position.

1,385,314. RAILWAY SIGNAL-TORPEDO. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 7, 1921. Serial No. 435,644. 6 Claims. (Cl. 246—487.)



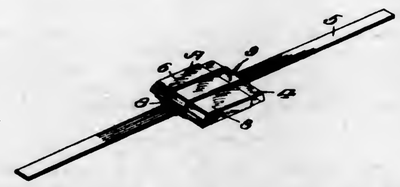
1. A torpedo comprising a case composed of a sheet wrapped in a plurality of folds around an explosive charge to form extended wrapped portions folded inward upon the explosive charge, and a rail-engaging member secured upon the case between the adjacent ends of the inwardly folded wrapped portions.

1,385,315. RAILWAY SIGNAL-TORPEDO. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed Feb. 2, 1921. Serial No. 441,716. 4 Claims. (Cl. 246—487.)



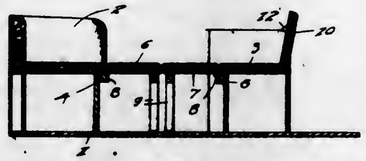
1. A railway signal torpedo having a case, a rail-engaging member carried upon one side of the case, and strings wrapped first around the rail-engaging member and then around the case at opposite ends thereof and binding the rail-engaging member to the case.

1,385,316. RAILWAY SIGNAL-TORPEDO. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburgh, Pa., a Corporatoon of New Jersey. Filed Feb. 2, 1921. Serial No. 441,717. 4 Claims. (Cl. 246—487.)



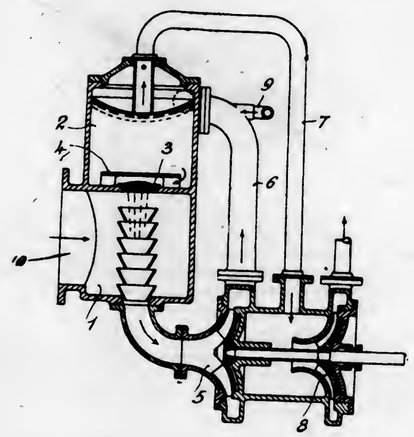
1. The combination with a case of a railway signal torpedo and rail-attaching member at one side thereof, of a string pressed around the rail-attaching member at points adjacent the edge of the case and across the case in separated parallel lines, and means for holding the string in its wrapped position.

1,385,317. CONVERTIBLE VEHICLE-BODY. GON Z. DYER, Williamson, W. Va. Filed Apr. 12, 1916. Serial No. 90,737. 1 Claim. (Cl. 155—7.)



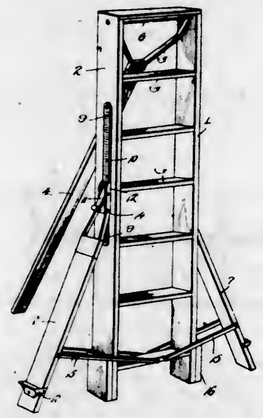
A convertible automobile body comprising front and rear seats each including back and seat portions and the back portion of the rear seat being rigidly secured to the seat portions of said rear seat, links pivoting the back portion of the front seat to the seat portion thereof so that said last mentioned back portion may be moved from the rear edge to the front edge of the seat portion of the front seat, strips secured to the front and rear seats along their rear and front edges respectively, extensions of widths equal to the width of the seat portion hinged to said strips and adapted to be moved into a plane with the seat portion with their attached edges overlying the strips, and links hinged to said extensions for supporting them in said position.

1,385,318. **WET CENTRIFUGAL COMPRESSOR.** JENS WILLIAM ÆGIDIUS ELLING, Christiania, Norway, assignor to A/S Myrens Verksted, Christiania, Norway. Filed Mar. 6, 1920. Serial No. 363,671. 5 Claims. (Cl. 230—11.)



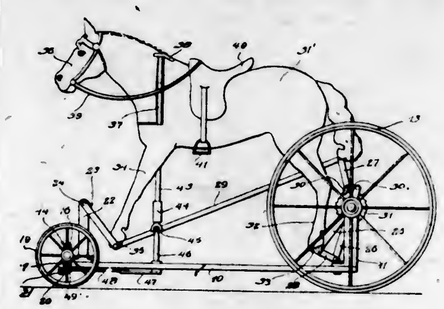
1. The process of compressing a gaseous medium, which comprises adding to the medium before compression an amount of liquid, compressing the mixture, separating part of the liquid from the mixture after compression, and returning the separated liquid to the compressor.

1,385,319. **LADDER.** MARTIN F. ENKE, Oakland, Calif. Filed Apr. 14, 1920. Serial No. 373,879. 2 Claims. (Cl. 228—31.)



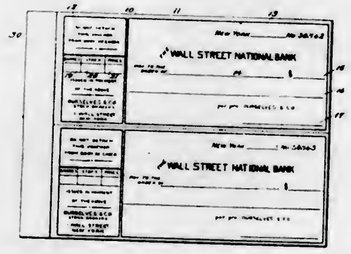
1. An improved ladder comprising a ladder body having side bars provided with an elongated rack, said rack having a plurality of perforations, auxiliary legs provided with a sliding sleeve pivotally attached to the upper ends thereof, a spring pawl within the sliding sleeve, and adapted to engage the perforations in said elongated rack, said auxiliary legs may be adjusted to swing in an arc from the ladder body substantially as specified.

1,385,320. **TOY HORSE.** D ROY FRICK, Richland, Mo. Filed June 22, 1920. Serial No. 390,751. 3 Claims. (Cl. 208—42.)



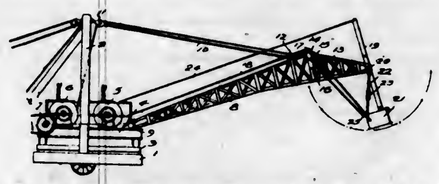
1. A device of the character described comprising a support, rear wheels journaled thereon, a ratchet associated with the rear wheels, a U-shaped rocking member mounted for rocking movement at the rear end of said support, arms pivoted at the rear end of the support, pawls carried by said arms and engaging said ratchet, a U-shaped rocking member mounted upon the forward end of the frame and connected with one of said arms, front wheels carried by the forward end of the frame, and a body formed as the representation of an animal including legs supported upon said rocking members whereby when the body is rocked said pawls will impart rotary movement to said rear wheels.

1,385,321. **COMBINATION CHECK, RECEIPT, AND RECORD.** ARTHUR V. FRY, Ridgewood, N. J. Filed Apr. 15, 1918. Serial No. 228,573. 3 Claims. (Cl. 283—58.)



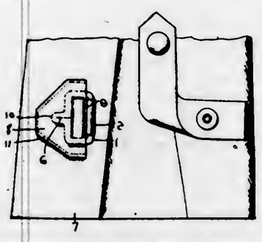
1. A device of the character described comprising a plurality of members, one of said members having a plurality of portions, each of which is provided with spaces adapted to receive written data relating to a business transaction, another of said members positioned below said first-named member and co-extensive in size therewith, said second-named member being provided with spaces corresponding to and registering with the spaces on both portions of said first-named member, whereby said second-named member is adapted to receive an imprint of all of the data written on said first-named member, and another of said members being positioned below said first-named member and co-extensive in size with one only of the portions thereof, said third-named member being provided with spaces registering with the spaces on said one portion only of said first-named member, whereby said third-named member is adapted to receive an imprint of the data written on said one portion only of said first-named member, substantially as specified.

1,385,322. **EXCAVATING-MACHINE.** CONRAD M. HOFFMEYER, Stratford, Ontario, Canada. Filed Mar. 24, 1917. Serial No. 157,159. 1 Claim. (Cl. 214—138.)



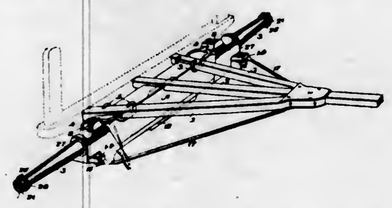
An excavating machine including a trussed edgewise disposed boom adapted to be pivoted at one end to a supporting structure and enlarged in width near its free end with enlarged vertical brace bars at the limit of its enlargement, the upper edge of the free end of said boom being inclined downwardly from said enlarged braces and the lower edge of said boom being inclined downwardly from a point spaced inwardly from said braces to its free end and at an angle less acute than the upper inclined portion whereby the stress on the outer end of the boom will be evenly distributed throughout, a pulley carried by the boom at the upper end of said enlarged vertical bars, another pulley in the rear of said brace carried pulley and a digging shovel carried by the free end of said boom.

1,385,323. **BUCKLE.** WILLIAM HORN, Oneonta, N. Y. Filed July 29, 1920. Serial No. 399,743. 1 Claim. (Cl. 24—265.)



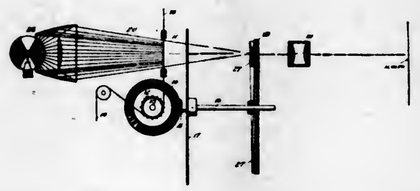
The combination with two plies of material superposed one on the other, a T-shaped row of stitching connecting said plies, the head of said T being formed of a pair of parallel laterally spaced rows connected at their ends, a rectangular buckle for insertion between said plies and having a loop extending laterally from one side bar thereof, the members of said loop being designed to straddle the shank of the T-shaped row of stitching, the body of the buckle fitting snugly around the head of the T-shaped row with all except one side member disposed between said plies, and a row of stitching outlining the portion of said buckle disposed between said plies, said outlined stitching being in close proximity to the buckle whereby it is securely held against movement.

1,385,324. **AXLE FOR RUNNING-GEARS OF WAGONS.** FRANCIS M. JACOB, Columbus, Miss. Filed May 15, 1919. Serial No. 297,245. 3 Claims. (Cl. 301—125.)



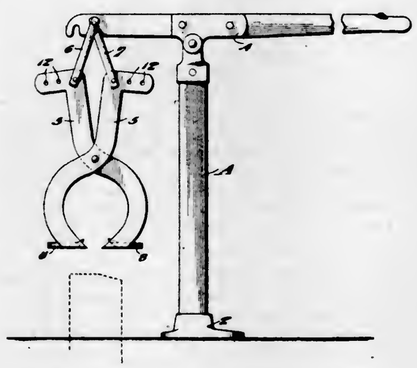
1. The combination with an axle and hounds, of skeins and bolts hooked over the hounds and connected with the skeins for securing the skeins at their tops to the axle.

1,385,325. **MOTION-PICTURE MACHINE.** CHARLES FRANCIS JENKINS, Washington, D. C. Filed Oct. 23, 1919. Serial No. 332,742. 7 Claims. (Cl. 88—16.8.)



1. An annular refracting prism of approximately rigid material having its thickness at one margin progressively varied, with respect to the thickness of the other margin and in passing along the circular curve, from a predetermined maximum to a predetermined minimum.

1,385,326. **POST-PULLER.** CLAUDE O. LEISURE, Broken Bow, Nebr. Filed May 15, 1919. Serial No. 297,192. 1 Claim. (Cl. 254—132.)



A post-puller including an upright, a lever fulcrumed thereon, links extending from the lever, grappling-tongs made in pairs and pivoted together, and connected at their lower ends by horizontally-disposed grappling-jaws having an internal concaved arrangement of teeth, the upper ends of the grappling-tongs extending laterally and provided with a plurality of holes, and links extending from such of said holes as desired to a common point of support on the lever.

1,385,327. **UMBRELLA.** JERRY M. LEWIS, Little Rock, Ark. Filed Dec. 4, 1920. Serial No. 428,333. 2 Claims. (Cl. 135—38.)

2. The combination with the tubular rod of an umbrella or the like, a tongue movably mounted therein and normally projecting therefrom, and a runner slidable on the rod and movable into and out of engagement with the tongue, of a resilient spiral mounted for rotation within the rod, means within said rod for engaging the spiral, a wedging head connected to one end of the spiral and slid-

able within the rod and into and out of engagement with the tongue, and key operated means for rotating the



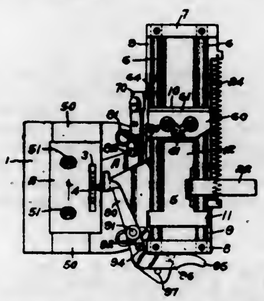
spiral relative to the spiral engaging means to extend the spiral and direct the head into or out of engagement with the tongue.

1,385,328. FOOTWEAR-SUPPORT. CHARLES W. LOUDENSLAGER, (now by judicial change of name Charles Wescott Louden,) Los Angeles, Calif. Filed Feb. 2, 1920. Serial No. 355,790. 2 Claims. (Cl. 36—58.5.)



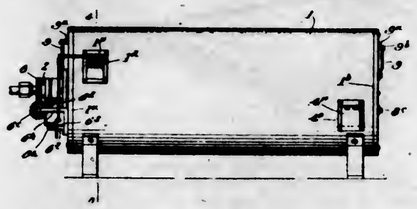
1. A device of the character described comprising a strip of suitable material constructed and adapted to engage the instep of the foot and the shank of a pump, an elastic medium attached near the ends of and conjoining said strip, the ends of said strip being provided with eyelets, and an ornament engaging the eyelets, for lacing together the end of the strip and covering said elastic medium.

1,385,329. TRIMMING DEVICE FOR SEWING-MACHINES. WILLIAM A. NEELY, Lynn, Mass.; Jas. S. Richardson administrator of said William A. Neely, deceased. Filed Oct. 26, 1918. Serial No. 259,754. 4 Claims. (Cl. 112—122.)



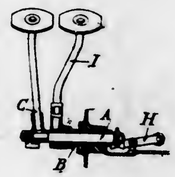
1. In a trimming device for sewing machines, the combination with a throat plate having a needle hole, a horizontal under edge trimming blade movable in a rectilinear line parallel to the feed of the machine and guide ways in which the throat plate is adjustable laterally relatively to the needle hole.

1,385,330. AUTOMATIC COOKING-MACHINE. OWEN ELSWORTH VANCE and PAUL STANLEY BAKER, Muscatine, Iowa. Filed Dec. 5, 1917. Serial No. 205,678. 10 Claims. (Cl. 193—1.)



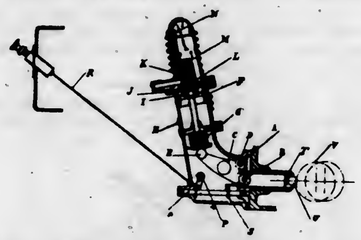
1. In combination, a horizontally disposed cylindric casing having a spiral guide way, and a rotatable can carrier disposed axially of and within the casing, adjustable bearings for the can carrier attached to the heads of the casing, means for vertically adjusting said bearings to adjust the carrier vertically within the casing and eccentric to the guide way, and means for fastening the bearings when adjusted.

1,385,331. FOOT-LEVER CONSTRUCTION FOR MOTOR-CARS. MARIUS JEAN BAPTISTE BARBAROU, Paris, France. Filed Sept. 21, 1920. Serial No. 411,829. 2 Claims. (Cl. 74—81.)



1. A foot lever construction for motor cars comprising in combination a bushing adapted to be secured to the vehicle, a pedal spindle rotatably mounted in said bushing, a pedal secured on said spindle, a brake actuating pedal rotatably mounted on said bushing and means operated by said spindle for operating the clutch device.

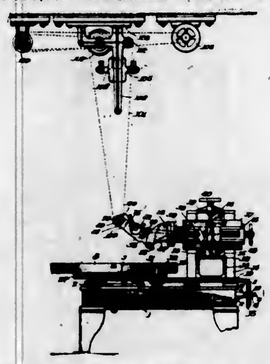
1,385,332. AIR-COMPRESSOR FOR MOTOR-VEHICLE TIRES. MARIUS JEAN BAPTISTE BARBAROU, Paris, France. Filed Mar. 30, 1921. Serial No. 456,935. 7 Claims. (Cl. 230—27.)



1. An air compressor for penumatic tires of motor vehicles, comprising in combination, a cam, a pusher actuated by the said cam, a guideway having the said pusher slidable therein, a swinging lever, means for operatively connecting the said pusher to the said swinging lever, a cylinder, a piston slidable within the said cylinder, means for operatively connecting the said swinging lever to the said piston, means for admitting air into the said cylinder, an air chamber connected with the said cylinder,

means for opening and closing the passage between the cylinder and the said air chamber, and means for evacuating the compressed air.

1,385,333. MACHINE FOR ENGRAVING MOLDS. ALBERT A. BUSH and RICHARD H. FREITAG, Akron, Ohio, assignors to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 18, 1919. Serial No. 331,663. 14 Claims. (Cl. 90—13.6.)



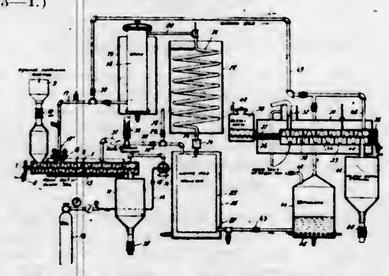
1. In a machine for the purpose set forth, the combination of a tire mold carrier, a cutting tool carrier, said elements being independently movable so that the tool may reach any part of the mold surface to be cut, a pattern for a section of the mold, a pattern follower, the mold carrier being connected to one of said parts, the tool carrier to the other, and independent means to move the tool carrier relatively to the mold to present a new section of the mold to the tool so that the design may be repeated on the mold.

1,385,334. METHOD OF REPAIRING SCORED CYLINDERS. ROSS D. HEACOX, Washington, D. C. Filed Mar. 18, 1921. Serial No. 453,502. 3 Claims. (Cl. 29—156.4.)



1. A process of repairing scored cylinders which consists in cleaning and fluxing the scores and then soldering therein a hard solder having the property of expanding on cooling.

1,385,335. PRODUCTION OF HYDROCYANIC ACID. FLOYD J. METZGER, New York, N. Y., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed May 3, 1919. Serial No. 294,377. 11 Claims. (Cl. 23—1.)

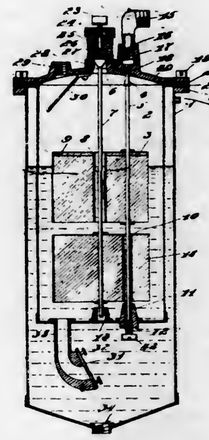


1. A method of producing hydrocyanic acid which comprises subjecting a solid cyanid containing material to the action of carbon dioxid and regulating the temperature of the mass in the reaction zone to prevent polymerisation of the hydrocyanic acid.

1,385,336. PRODUCTION OF HYDROCYANIC ACID. FLOYD J. METZGER, New York, N. Y., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed Aug. 14, 1919. Serial No. 317,440. 12 Claims. (Cl. 23—1.)

1. The method of recovering hydrocyanic acid from solid cyanid-containing material, which comprises, causing carbon dioxid to react with the material, and withdrawing the gaseous end product of the reaction at a rate precluding the substantial polymerization of the hydrocyanic acid.

1,385,337. FUEL-FEEDING SYSTEM FOR AUTOMOBILES. WILLIAM H. MUZZY, Chicago, Ill. Filed May 10, 1920. Serial No. 380,156. 11 Claims. (Cl. 158—36.)

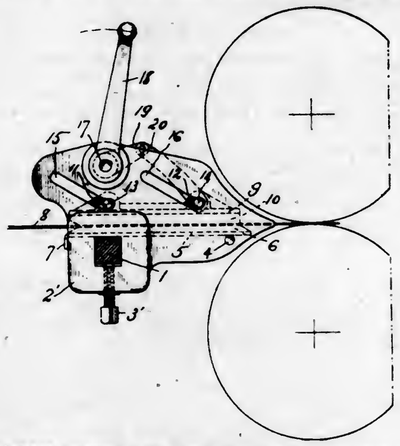


1. In a fuel feeding system the combination with a tank having a vacuum chamber and a supply chamber, the former with a suction port, an atmosphere port and a fuel inlet port, of a valve for the suction port, a float for opening and closing the valve, a valve for the atmosphere port, a float for opening and closing this latter valve operating independently of the first mentioned float and so located in relation to the first float that its point of buoyancy has been passed when the first float rises, and means for discharging gasolene from the vacuum chamber to the supply chamber.

1,385,338. METAL-GUIDE FOR ROLLING-MILLS. WILLIAM A. ROBBINS, Waterbury, Conn., assignor to The American Brass Company, Waterbury, Conn., a Corporation of Connecticut. Filed Oct. 9, 1920. Serial No. 415,756. 5 Claims. (Cl. 80—51.)

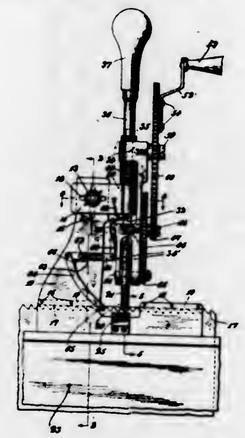
5. In a peg guide for metal rolling mills, the combination of side pieces and a lower guide member supported thereby, an upper movable member adapted to be moved toward and from said lower member, said upper member having lateral projections and said side members having inclined ways engaged by said lateral projections so as to

move said upper member toward and from said lower member as it is reciprocated in one direction or the other,



said ways consisting of slots extending through said side members and said projections extending through said slots.

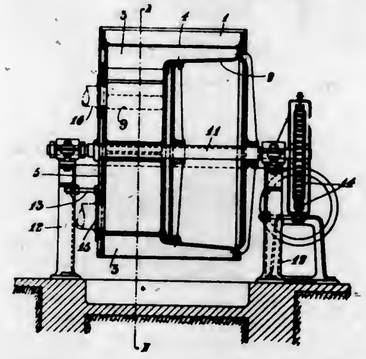
1,385,339. SAW-SHARPENING APPARATUS. CARL STANZEL, New York, N. Y. Filed Oct. 4, 1919. Serial No. 328,516. 5 Claims. (Cl. 76—41.)



1. In a saw sharpening apparatus, the combination with an L shaped frame, bifurcated in its lower portion to receive a saw blade, a forked element slidable on the raised portion of said frame, means for securing said forked element adjustably on said frame, an abrading wheel carried in said forked element, means for manually rotating said abrading wheel, and means for raising or lowering said abrading wheel with reference to the teeth of the saw.

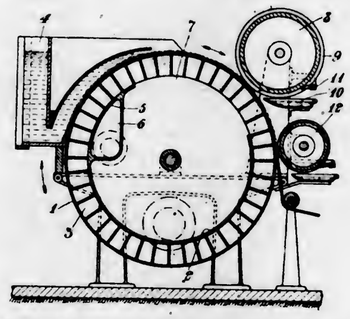
1,385,340. STRAINER-CYLINDER FOR WOOD-PULP AND CELLULOSE. RUDOLF ERNST WAGNER, Karlstad, Sweden, assignor to Aktiebolaget Karlstads Mekaniska Verkstads, Karlstad, Sweden, a Manufacturing Company of Sweden. Filed Aug. 9, 1920. Serial No. 402,376. 3 Claims. (Cl. 92—38.)

1. In a strainer cylinder for wood-pulp and cellulose, the combination of a pulp container, a rotary cylinder divided into cells, a strainer cloth surrounding said cells and forming the outer surface of said cylinder, an upward rotating portion of said strainer cloth above the horizontal plane through the axis of said cylinder forming one wall of said pulp container, a stationary suction box located in the interior of said cylinder within said cells and having a suction opening opposite the upper part of said portion of the strainer cloth forming a wall of said container, and a wall opposite the lower part of



said portion of the strainer cloth, said wall forming a stationary bottom for the cells covered by said part, for the purpose that during the rotation of the cylinder the cells moving into the pulp container shall at first be closed and shut off from the suction box and afterward placed into communication with said suction box when a filter layer has been formed on the strainer cloth over said cells by natural straining.

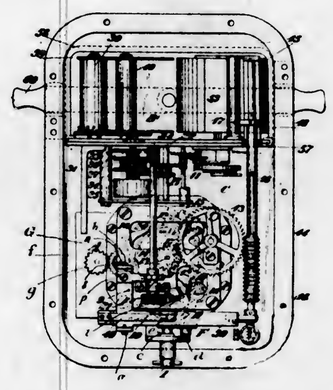
1,385,341. PULP-VAT AND THE LIKE. RUDOLF ERNST WAGNER, Karlstad, Sweden, assignor to Aktiebolaget Karlstads Mekaniska Verkstad, Karlstad, Sweden, a Manufacturing Company of Sweden. Filed Aug. 9, 1920. Serial No. 402,377. 1 Claim. (Cl. 92—38.)



In a pulp-vat and the like, the combination of a rotary strainer cylinder for gathering the pulp, and a press roller bearing against said cylinder and provided with peripheral grooves, notches, deep slots, or the like, for the purpose of rendering possible an increased pressing out of the pulp sheet gathered on the strainer cylinder.

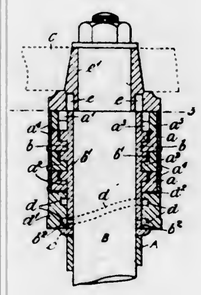
1,385,342. SPEED-RECORDER FOR VEHICLES OR LOCOMOTIVES. FRIEDRICH WILHELM GUSTAV BRUHN, Wilmersdorf, near Berlin, Germany. Filed Mar. 20, 1920. Serial No. 367,523. 8 Claims. (Cl. 234—33.)

1. In a device for recording the speed of travel of a vehicle, a recording tape, a tape feed mechanism for moving the tape, a primary driving means adapted to impart an amount of movement to the tape feed mechanism that is proportional to the distance covered by the vehicle, a secondary driving means, a transferring means for transferring the drive of the tape feed mechanism from the primary driving means to the secondary driving means whenever the speed of travel sinks below a certain limit,



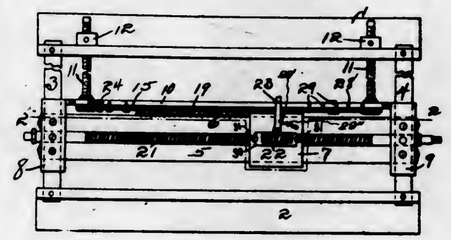
an impressing needle for making impressions on the said recording tape, a speed indicator adapted to be driven by the primary driving means, and intermediate gear between the speed indicator and the impressing needle for moving the needle in accordance with the movements of the indicator.

1,385,343. PERMUTATION-LOCK FOR AUTOMOBILES. HERBERT ERNEST DAKIN, London, England, assignor to Herbert E. Dakin Limited, London, England, a Corporation of Great Britain. Filed Dec. 24, 1920. Serial No. 433,009. 2 Claims. (Cl. 70—53.)



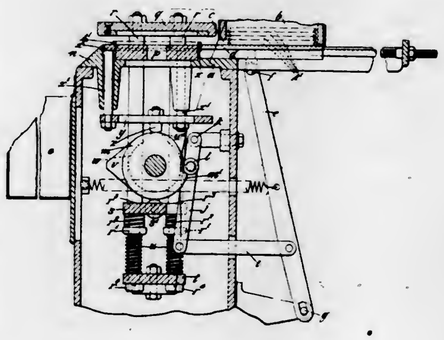
1. In a steering wheel lock the combination with a steering wheel having recesses in the underside of the hub thereof and steering mechaniam supporting the wheel, a sleeve fixed to a part of said mechanism and having longitudinal guide grooves in its sides, tongues slidably mounted in said grooves and adapted to enter the said recesses of the hub, a shifting ring mounted to turn on said sleeve and having a cam groove therein for each tongue, pins projecting from the tongues into said cam grooves for actuating the tongues upon turning of the ring, a plurality of code rings arranged in superposed relation about said sleeve and tongues and having interlocking elements adapted to engage the tongues and adapted to be individually turned to free said tongues for operation, and code bearing strips separately mounted on said code rings for individual adjustment thereon whereby the code may be changed from time to time without changing the construction of the code rings.

1,385,344. PORTABLE LOCOMOTIVE-VALVE-SEATING MACHINE. JAMES J. MOONEY and RICHARD E. BENNETT, Wichita Falls, Tex. Filed Aug. 4, 1919. Serial No. 315,067. 4 Claims. (Cl. 90—24.)



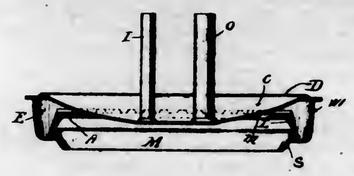
1. A valve seating machine comprising a frame including longitudinal guide and supporting bars, a traveling tool head movable on said guide bars, means for reciprocating said head on said guide bars including a shaft provided with a worm thread and a worm wheel journaled in said tool head and adapted to mesh with said shaft, means for automatically locking said worm wheel to said tool head and for releasing said wheel from said head, and a counterweight for returning said head to starting point.

1,385,345. METHOD OF MANUFACTURE OF PISTON-RINGS. WILLIAM A. OUBRIDGE, Coventry, England. Filed Oct. 6, 1919. Serial No. 328,715. 2 Claims. (Cl. 29—156.6.)



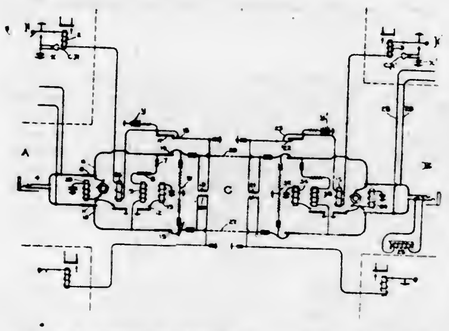
1. The method or process of piston ring manufacture, which comprises the following essential steps, viz:—(I) raising the ring blank to a red heat; (II) conforming the ring blank, at a red heat to "the selected curve," as near as may be, by pressure between suitably shaped dies; (III) quickly removing from the inner die, and (IV) regulating cooling, all substantially as hereinbefore described and for the purposes hereinbefore specified.

1,385,346. SURGICAL WOUND-DAM. WALTER HERBERT TAYLOR, Guelph, Ontario, Canada. Filed June 27, 1919. Serial No. 307,248. 13 Claims. (Cl. 128—248.)



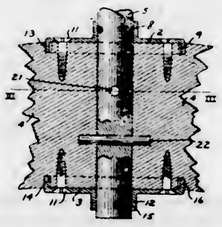
1. A surgical wound dam formed of flexible rubber and comprising a ring; a wall depending from the ring; an inwardly and downwardly directed annular flange formed at the lower edge of the wall; and a cover closing the top of the chamber within the ring and wall.

1,385,347. AUTOMATIC TELEPHONE SYSTEM. JOHN WICKS, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 4, 1918. Serial No. 215,249. 15 Claims. (Cl. 179—27.)



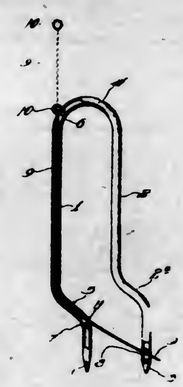
9. In a telephone system, a trunk line, a signal at one end of said trunk line, a controlling circuit for said signal superimposed on one conductor of said trunk line, a relay in said circuit, means controlled by alternating current for sending an impulse of direct current over said circuit to operate said relay, and means controlled by said relay for operating said signal.

1,385,348. CHAIR-BASE. OSWALD H. HANSEN, Port Washington, Wis. Filed Oct. 30, 1920. Serial No. 420,595. 10 Claims. (Cl. 155—138.)



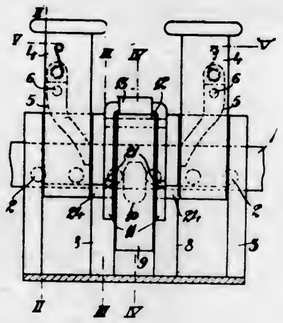
1. A chair base comprising an upright seat supporting rod, a pair of spaced plates rigidly attached to said rod, each of said plates having a continuous peripheral flange extending toward the other plate, and a plurality of legs having both of said flanges embedded therein.

1,385,349. LOCKING HAIR-FASTENER. ROY C. JONES, Chicago, Ill. Filed May 2, 1921. Serial No. 466,104. 6 Claims. (Cl. 132—51.)



1. A hair fastener having two prongs arranged side by side and connected together at their bases, one of said prongs having an open ended passage extending lengthwise through the same from the base to a point on the inner side near the free end of the prong, the other prong having near the free end thereof an opening facing the adjacent open end of said passage, and a light resilient wire long enough to extend through said passage and across the space between the prongs and into said opening.

1385,350. CALCULATING-MACHINE. EDVARD KUIKKA, Gottenborg, Sweden, assignor to Aktiebolaget Original-Odhner, Gottenborg, Sweden, a Corporation of Sweden. Filed Nov. 4, 1919. Serial No. 335,661. 9 Claims. (Cl. 235—63.)



1. In a calculating machine having a movable carriage, a tabulating device comprising projections arranged at intervals and connected with said carriage, an escapement pawl movable at right angles to the direction of movement of the carriage and having a sliding surface adapted to actuate said projections to move the carriage, means normally locking the projections operated by the actuating movement of the pawl to release the projections, and means whereby the locking means is returned to normal position in advance of the return movement of the pawl.

5. In a calculating machine, the combination of a casing, a carriage movable in said casing, a row of projections on said carriage, and a member in said casing movable at right angles to the direction of movement of the carriage, said member having a cam surface to engage with said projections, for the purpose described.

9. In a calculating machine, the combination of a casing, a carriage movable horizontally in said casing, a horizontal row of projections on said carriage, and two keys movable up and down on said casing, members on said keys having oppositely positioned cam surfaces to engage with said projections.

REISSUES.

15,154. INSECT-KILLING DEVICE. GEORGE W. GOMBER, Conyngham, Pa., assignor, by mesne assignments, to A. W. Drake Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 6, 1918. Serial No. 248,643. Original No. 1,161,654, dated Nov. 23, 1915, Serial No. 12,046, filed Mar. 4, 1915. 9 Claims. (Cl. 43—137.)



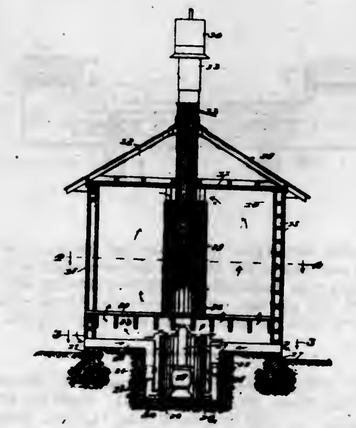
9. A fly killing device comprising a handle; and a flap on said handle formed of a perforated sheet of soft flexible non-abrasive material, substantially as described.

15,155. EXPLOSIVE COMPOUND. ROY LINDEN HILL and ARCHIBALD JACKSON STRANG, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed May 14, 1921. Serial No. 469,567. Original No. 1,307,495, dated June 24, 1919. Serial No. 260,631, filed Nov. 1, 1918. 11 Claims. (Cl. 52—7.)

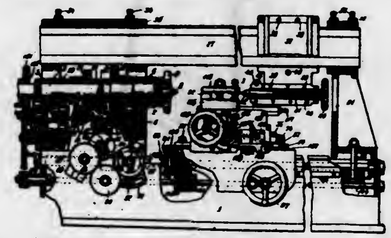
4. An explosive comprising a hygroscopic ingredient and copper sulfate.

15,156. CURING-HOUSE FOR SWEET POTATOES. ELIJAH JASPER ILES and ODIE LEE HASTINGS, Alexandria, La., assignors to Alexandria Potato Curing Company, Inc., Alexandria, La., a Corporation of Louisiana. Filed Mar. 8, 1921. Serial No. 450,604. Original No. 1,353,752, dated Sept. 21, 1920, Serial No. 387,559, filed June 9, 1920. 11 Claims. (Cl. 98—26.)

10. A curing house including means forming a curing chamber having a reticulate charging floor, a vertical cylinder in the curing chamber having a closed lower end and an open upper end, an outlet air flue having a lower open end depending into the said cylinder, a heating pit below the charging floor, a heater in the said pit, a drum around the heater having an upper open end below the charging floor, and means for admitting air to the lower portion of the drum.



15,157. RELIEVING-LATHE. FRIEDERICH MÜLLER, Hartford, Conn., assignor to Pratt & Whitney Company, Hartford, Conn., a Corporation of New Jersey. Filed Feb. 11, 1920. Serial No. 357,831. Original No. 1,299,207, dated Apr. 1, 1919, Serial No. 139,838, filed Dec. 30, 1916. 65 Claims. (Cl. 82—2.)



1. In a relieving lathe, the combination of means for holding and rotating a cutter, a tool holder, means comprising a single-throw cam acting positively to advance the tool holder slowly toward the cutter and acting positively to withdraw it rapidly therefrom a plurality of times during each rotation of the cutter, and means for varying from zero to maximum the extent of advance and withdrawal.

15,158. WAGON-HAYRACK CARRIAGE. JACOB S. MYERS, Hagerstown, Md., assignor to Warren Murray Baechtel and Joseph K. Hoffman, Hagerstown, Md. Filed Mar. 1, 1921. Serial No. 448,850. Original No. 1,296,207, dated Mar. 4, 1919, Serial No. 211,361, filed Jan. 11, 1918. 3 Claims. (Cl. 214—81.5.)

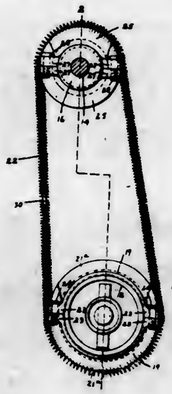
3. A carriage adapted for movement endwise of a wagon rack bed having elevated side rails forming a track and also having rollers below the level of the track; the said carriage being capable of movement endwise of a rack bed

below the level of the rails and being provided with rails to rest and travel upon said rollers and being also provided at its sides with hanger brackets having spaced portions and adapted to overhang the track rails of the track



bed, with transverse rollers carried between the said spaced portions of the brackets to travel upon said track rails, and with supporting connections between said hangers and the carriage, said connections being adjustably connected with the carriage and with said brackets.

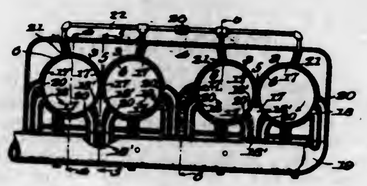
15,159. PULLEY-ADAPTER. CHARLES F. NICKERSON, Reading, Mass. Filed May 19, 1921. Serial No. 470,906. Original No. 1,371,512, dated Mar. 15, 1921, Serial No. 254,111, filed Sept. 14, 1918. 6 Claims. (Cl. 64—17.)



1. For application to a flat belt-engaging pulley, a non-continuous annular adapter, formed internally to embrace the periphery of the pulley, and having separable portions permitting its application to, and its contraction on the pulley, round belt-guiding external flanges, and coupling means carried wholly by the adapter and adjustably connecting said separable portions to clamp the adapter on the pulley, said flanges and coupling means being located at opposite sides of the central zone of the adapter, so that the adapter is rotatable in the bight of a round belt.

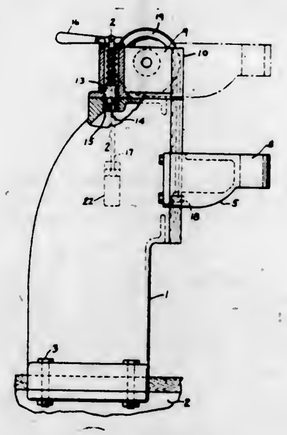
15,160. INTERNAL-COMBUSTION ENGINE. ERNEST R. OLSEN, Detroit, Mich., assignor to George William Olsen, Muskegon, Mich. Filed Dec. 15, 1919. Serial No. 345,033. Original No. 1,266,849, dated May 21, 1918, Serial No. 187,196, filed Aug. 20, 1917. 29 Claims. (Cl. 123—25.)

1. In an internal combustion engine, the combination of a plurality of internally shouldered cylinders each provided with pairs of alternating intake ports and exhaust ports and a steam inlet port lying in the same plane, rotatable internal valve members shouldered to coact with the shoulders of said cylinders and disposed to project from the inner ends thereof and provided with worm teeth on their projecting ends, said valve members being provided with three uniformly spaced valve ports lying in the plane of said cylinder ports and adapted to be brought into register therewith as the valve members rotate, the pairs of cylinder intake and exhaust ports being spaced uniformly



with said valve ports, the steam ports of the cylinders being positioned so that one of the valve member ports register therewith during each intake stroke, steam delivery connections to said steam inlet ports, pistons reciprocating in said valve members, a crank shaft, a worm shaft provided with worms coacting with the worm gears of said valve members, and driving connections between said worm and crank shafts.

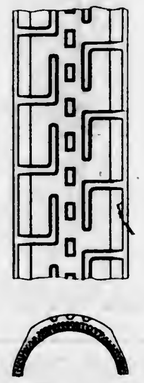
15,161. SPINDLE-SUPPORTING MEMBER. WILLIAM F. ZIMMERMANN, Maplewood, N. J., assignor to Gould & Eberhardt, Newark, N. J., a Corporation of New Jersey. Filed May 14, 1921. Serial No. 469,569. Original No. 1,304,643, dated May 27, 1919. Serial No. 172,489, filed June 2, 1917. 13 Claims. (Cl. 90—19.)



1. A machine-tool combining a bed; a box-type member uprising therefrom column-like; a second member extending arm-like transversely thereto and adapted to carry a spindle at its end; an element in the nature of an intermediary pivoted to one of said parts and having a slideway-connection with the other of said parts; locking means for normally preventing pivotal action but adapted to be released to enable the arm-like member to be swung to one side of the other member; and a clamping means for engaging slideways on said box-type member, whereby the arm-like member may be rigidly secured against vibration relative to the box-type member.

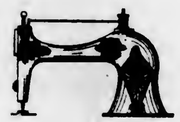
DESIGNS.

58,419. TIRE. JOHN M. ALDERFER, Akron, Ohio. Filed Dec. 17, 1920. Serial No. 431,495. Term of patent 14 years.



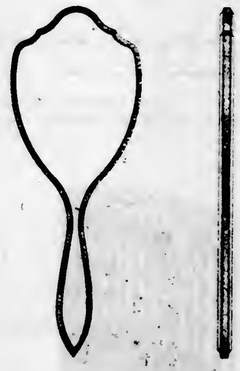
The ornamental design for a tire as shown.

58,420. SEWING-MACHINE ARM. BRONISLAW AMBROSIEWICZ, Hamtramck, Mich. Filed July 9, 1920. Serial No. 395,152. Term of patent 14 years.



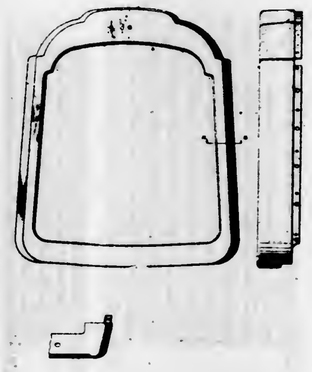
The ornamental design for a sewing machine arm as shown.

58,421. BACK OF A MIRROR, BRUSH, OR SIMILAR TOILET ARTICLE. WILLIAM S. BECHTOLD, Newark, N. J. Filed Jan. 13, 1920. Serial No. 351,263. Term of patent 14 years.



The ornamental design for the back of a mirror, brush, or similar toilet article, as shown.

58,422. AUTOMOBILE-RADIATOR CASING. EDWARD H. BELDEN, Toledo, Ohio. Filed June 9, 1919. Serial No. 302,996. Term of patent 14 years.



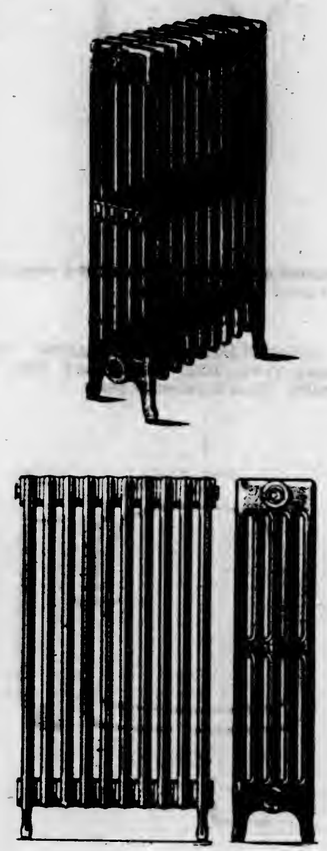
The ornamental design for an automobile radiator casing as shown.

58,423. BOOTH. PAUL M. BUSICK, Memphis, Tenn. Filed Jan. 19, 1920. Serial No. 352,627. Term of patent 14 years.



The design for a booth as herein shown and described.

58,424. RADIATOR. LOUIS COURTOT, Paris, France. Filed Aug. 30, 1919. Serial No. 320,955. Term of patent 14 years.



The ornamental design for a radiator, as shown.

58,425. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,762. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,426. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,763. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,427. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,764. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,428. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,765. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,429. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,766. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,430. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,767. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,431. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,768. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,432. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,769. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,433. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,770. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,434. PEN AND PENCIL HOLDER. OSCAR B. FISH, St. George, N. Y. Filed Feb. 2, 1920. Serial No. 355,771. Term of patent 7 years.



The ornamental design for a pen and pencil holder as shown.

58,435. ADVERTISING SIGN OR SIMILAR ARTICLE. LOUIS GICLAS, Washington, D. C. Filed Dec. 29, 1920. Serial No. 433,952. Term of patent 14 years.



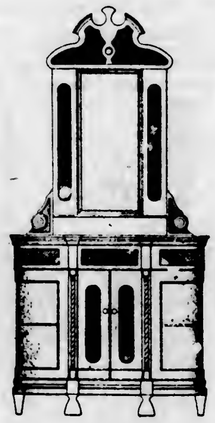
The ornamental design for an advertising sign, or similar article as shown.

58,436. EMBLEM BUTTON. CLARENCE B. GORE, Chicago, Ill. Filed July 12, 1920. Serial No. 395,777. Term of patent 14 years.



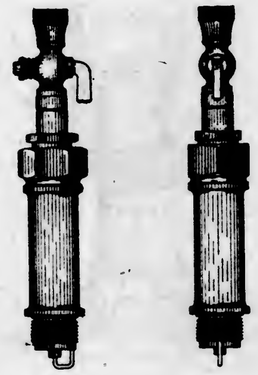
The ornamental design for an emblem button, as shown.

58,437. PHONOGRAPH-CABINET. GIOVONNI RICCI GRAMITTO, Rochester, N. Y. Filed Apr. 22, 1921. Serial No. 463,682. Term of patent 14 years.



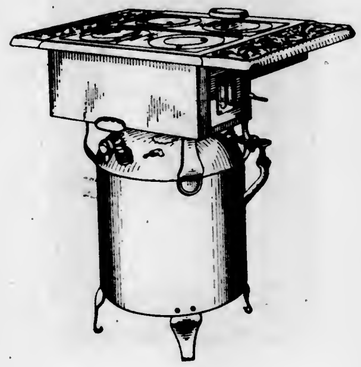
The ornamental design for a phonograph cabinet, as shown.

58,438. SPARK-PLUG. PATRICK J. GRIFFIN, Boston, Mass. Filed Feb. 3, 1921. Serial No. 442,297. Term of patent 7 years.



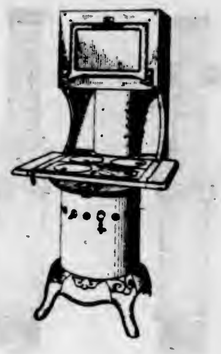
The ornamental design for a spark plug, as shown.

58,439. OIL-STOVE. EDWIN E. HILLIKER, East Aurora, N. Y. Filed Dec. 24, 1919. Serial No. 347,233. Term of patent 3½ years.



The ornamental design for an oil stove, as shown.

58,440. OIL-STOVE. EDWIN E. HILLIKER, East Aurora, N. Y. Filed Dec. 24, 1919. Serial No. 347,234. Term of patent 3½ years.



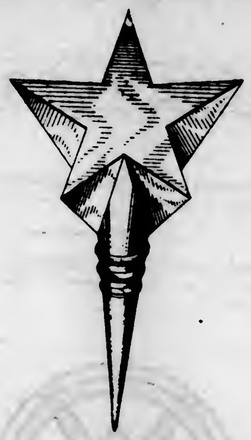
The ornamental design for an oil stove, as shown.

58,441. EMBLEM. VEDER JACOBSEN, Chicago, Ill. Filed Jan. 29, 1918. Serial No. 214,430. Term of patent 3½ years.



The ornamental design or an emblem, as shown.

58,442. NAIL. JOHN JASUS, Catlin, Ill. Filed Apr. 28, 1921. Serial No. 465,217. Term of patent 7 years.



The ornamental design for a nail, as shown.

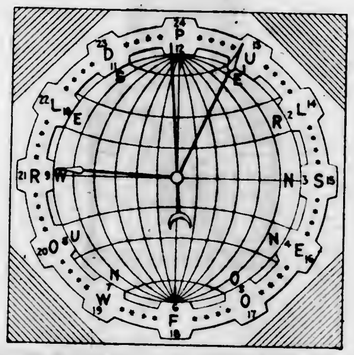
58,443. PIN. BERTHA E. LASKEY, Skowhegan, Me. Filed May 13, 1920. Serial No. 381,209. Term of patent 3½ years.





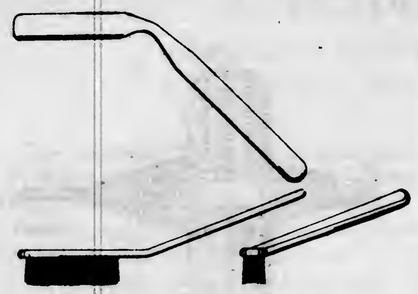
The ornamental design for a pin, as shown.

58,444. CLOCK-FACE. WILLIAM F. MAHER, New York, N. Y. Filed June 5, 1920. Serial No. 386,823. Term of patent 3½ years.



The ornamental design for clock-face, as shown.

58,445. TOOTHBRUSH. PERCY S. MARCELLUS, Orange, N. J. Filed May 19, 1920. Serial No. 382,602. Term of patent 14 years.



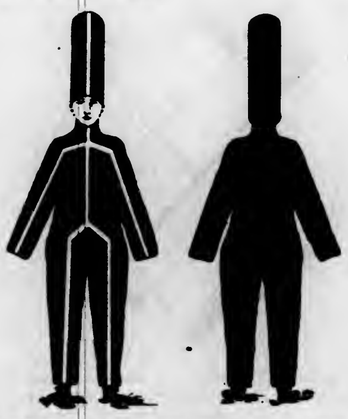
The ornamental design for a toothbrush, as shown.

58,446. NOVELTY FIGURE. MARCUS I. MAYER and GEORGE H. PHELPS, St. Louis, Mo. Filed May 12, 1920. Serial No. 380,921. Term of patent 7 years.



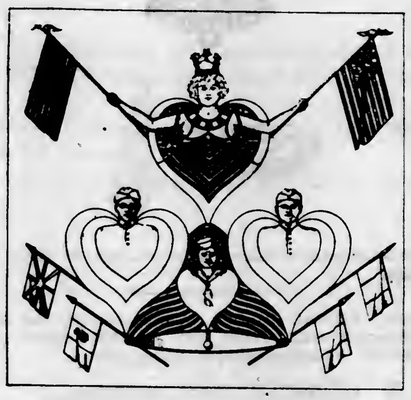
The ornamental design for a novelty figure as shown.

58,447. COSTUME. CAROLINE B. MCKINLEY, Washington, D. C. Filed Dec. 23, 1920. Serial No. 432,879. Term of patent 7 years.



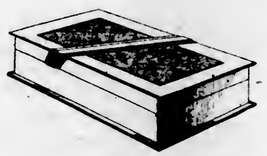
The ornamental design for a costume, as shown.

58,448. PATRIOTIC EMBLEM, EMBLAZONED OR ILLUMINATED PLACARD, FLAG, PENNANT, BANNER, OR ARTICLE OF SIMILAR NATURE. RICHARD PERCY, Chicago, Ill. Filed Mar. 12, 1919. Serial No. 282,220. Term of patent 7 years.



The ornamental design for a patriotic emblem, emblazoned or illuminated placard, flag, pennant, banner or article of similar nature, as shown.

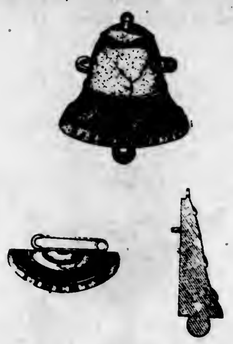
58,449. CANDY-BOX. CLAUDE E. PRICE, Spokane, Wash. Filed July 2, 1919. Serial No. 308,336. Term of patent 14 years.





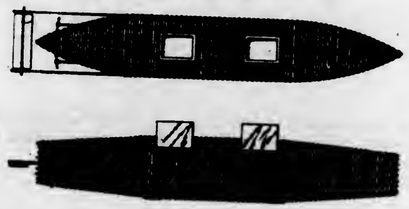
The ornamental design for a candy box as shown

58,450. BREASTPIN OR BADGE. OSCAR RAYMOND ROSE, Chicago Heights, Ill. Filed Dec. 20, 1917. Serial No. 208,186. Term of patent 3½ years.



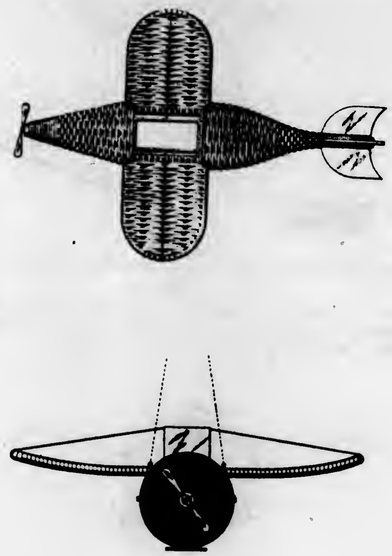
The ornamental design for a breastpin or badge as shown.

58,451. FLORAL HOLDER. VICTORIANO SUCATRE, San Francisco, Calif. Filed July 12, 1920. Serial No. 395,781. Term of patent 3½ years.



The ornamental design for a floral holder, as shown.

58,452. FLORAL HOLDER. VICTORIANO SUCATRE, San Francisco, Calif. Filed July 12, 1920. Serial No. 395,782. Term of patent 3½ years.



The ornamental design for a floral holder, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 19, 1921.

[PUBLISHED JULY 30, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

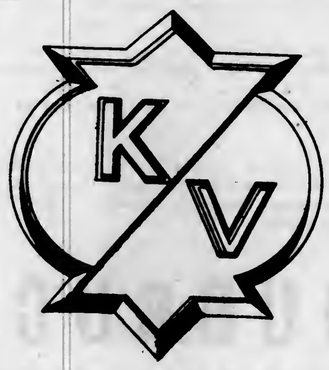
As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 66,251. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEACOAST CANNNING CO., Eastport, Me. Filed Oct. 11, 1912.



Particular description of goods.—Canned Sardines.
Claims use since Sept. 1, 1909.

Ser. No. 108,748. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE KENNEDY VALVE MFG. CO., Elmira, N. Y. Filed Feb. 1, 1918.



Particular description of goods.—Fire-Hydrants, Indicator-Posts, Gate-Valves, Check-Valves, Globe-Valves, Angle-Valves, and Backwater-Valves.
Claims use since on or about June 1, 1917.

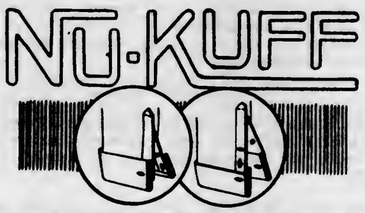
Ser. No. 110,588. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) REID BROS., Seattle, Wash., and San Francisco, Calif. Filed May 1, 1918.



No claim is made to the exclusive use of the word "Efficiency" apart from the mark as shown in the drawing.

Particular description of goods.—Hot-Water Bottles, Ice-Bags, Invalid-Cushions, Back-Rests for Supporting Invalids in Semireclining Positions, Syringes, Sputum-Cups, and Paper or other Fillers for the Same.
Claims use since on or about Jan. 1, 1916.

Ser. No. 111,870. (CLASS 39. CLOTHING.) THE NU-KUFF CO., Fayetteville, Ark. Filed June 28, 1918.



The lining in the drawing is for shading only. No claim is made to the representation of the cuffs and the words "Nu-Kuff" apart from the trade-mark shown in the drawing.

Particular description of goods.—Negligée and Outing Shirt Cuffs.
Claims use since May 25, 1918.

Ser. No. 116,830. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BORDEN COMPANY, Warren, Ohio. Filed Mar. 24, 1919.

BEAVER



Particular description of goods.—Diestocks and Parts Thereof, Hand Pipe-Cutters and Parts Thereof, and Handles, Chasers, and Knives for Diestock and Pipe Cutters.
Claims use since about March, 1907.

Ser. No. 117,219. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Apr. 7, 1919.

POLAR

Particular description of goods.—Candy.
Claims use since June 1, 1918.

Ser. No. 117,666. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GRATON AND KNIGHT MANUFACTURING COMPANY, Worcester, Mass. Filed Apr. 21, 1919.



No claim is made to the word "Brand" apart from the mark shown on the drawing.
Particular description of goods.—Leather Belting.
Claims use since 1900.

Ser. No. 119,191. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SOLOMON H. GOLDBERG, Chicago, Ill. Filed June 4, 1919.

SOLVO

Particular description of goods.—Rubber Tires of All Kinds.
Claims use since May 24, 1919.

Ser. No. 119,883. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DICK'S ASBESTOS COMPANY, London, England. Filed June 24, 1919.



Particular description of goods.—Packing and Hose of All Kinds Made of Asbestos.
Claims use since 1913.

Ser. No. 122,200. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUPLAN SILK CORPORATION, New York, N. Y. Filed Aug. 29, 1919.

MIDINETTE

Particular description of goods.—Broad-Silk Piece Goods.
Claims use since on or about June 16, 1919.

Ser. No. 123,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DANIEL J. O'SHEA, Le Roy, N. Y. Filed Oct. 2, 1919.

COF-E-NO

Particular description of goods.—A Cereal Substitute for Coffee and Coffee and This Substitute Blended Together.
Claims use since on or about Sept. 1, 1896.

Ser. No. 123,577. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THOS. HUBBACH & SON LIMITED, London, England. Filed Oct. 9, 1919. Under ten-year proviso.

HUBBUCK.

Particular description of goods.—Fuller's Earth, Fossil Earth, and Crude Tar.
Claims use since 1775.

Ser. No. 124,759. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMUEL H. MORRIS, New York, N. Y. Filed Nov. 11, 1919.

Numalt

Particular description of goods.—Malt Extracts for Food Purposes.
Claims use since September, 1919.

Ser. No. 127,074. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) AMALGAMATED TIRE STORAGE CORPORATION, New York, N. Y. Filed Jan. 12, 1920.



No claim is made to the words "Your Favorite Tire" and "National Service in Standard Make Seconds" apart from the mark as shown.
Particular description of goods.—Rubber Tires and Tubes.
Claims use since about Dec. 10, 1919.

Ser. No. 127,205. (CLASS 39. CLOTHING.) FOX RIVER VALLEY KNITTING COMPANY, Appleton, Wis. Filed Jan. 15, 1920.



The lining on the drawing is for shading only.
Particular description of goods.—Socks for Men and Children.
Claims use since Sept. 5, 1900.

Ser. No. 127,755. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA PACKING CORPORATION, San Francisco, Calif. Filed Jan. 30, 1920. Under ten-year proviso.

WHITE LILY



Particular description of goods.—Canned Apples, Canned Apricots, Canned Blackberries, Canned Loganberries, Canned Raspberries, Canned Strawberries, Canned Black Cherries, Canned Royal Anne Cherries, Canned White Cherries, Canned Muscat Grapes, Canned Yellow Free Peaches, Canned Yellow Cling Peaches, Canned Sliced Yellow Cling Peaches, Canned Bartlett Pears, Canned Pineapple, Canned Egg-Plums, Canned Green-Gage Plums, and Canned Golden-Drop Plums.
Claims use since 1894.

Ser. No. 128,535. (CLASS 39. CLOTHING.) SONNEBORN BROTHERS, New York, N. Y. Filed Feb. 17, 1920.

SONNY BOY

Consisting of the words "Sonny Boy."
Particular description of goods.—Suits for Young Men and Boys.
Claims use since January, 1919.

Ser. No. 129,722. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) EDWARD A. JAQUINS, Los Angeles, Calif. Filed Mar. 15, 1920.

AD-MOR-MYLER

Particular description of goods.—Automobile-Tires Constructed of Rubber and Fabric.
Claims use since Mar. 5, 1920.

Ser. No. 129,943. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE MCLEAN TIRE & RUBBER COMPANY, Cleveland, Ohio. Filed Mar. 19, 1920.



No exclusive rights in the representation of the tire being claimed except as the same appears as part of the trade-mark shown.

Particular description of goods.—Rubber and Rubberized Fabric Tires, Casings, Inner Tubes, Tire-Patches.

Claims use since Jan. 1, 1920.

Ser. No. 130,298. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ST. LOUIS INSECTICIDE AND SPECIALTY CO., St. Louis, Mo. Filed Mar. 27, 1920.

RED DEVIL

The lining or shading of the drawing indicating the color red.

Particular description of goods.—Insecticides—Namely, Roach, Bedbug, and Ant Destroyers.

Claims use since May, 1915.

Ser. No. 130,299. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ST. LOUIS INSECTICIDE AND SPECIALTY COMPANY, St. Louis, Mo. Filed Mar. 27, 1920.

RED DEVIL



The lining or shading of the drawing indicating the color red.

Particular description of goods.—Insecticides—Namely, Roach, Bedbug, and Ant Destroyer.

Claims use since May, 1915.

Ser. No. 130,332. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCCORMICK & Co., Baltimore, Md. Filed Mar. 29, 1920.

BEE BRAND



No claim is made to the word "Brand" apart from other features of the mark.

Particular description of goods.—Insect-Powders.

Claims use since 1900.

Ser. No. 130,524. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER EDWARD DAYTON, Chattanooga, Tenn. Filed Apr. 2, 1920.

Aspi-tabs

Particular description of goods.—Preparation for Headaches, Neuralgia, Colds, Grippe, Toothache, Influenza, Rheumatism, Pains Peculiar to Women, Aching or Pains Anywhere in the Body.

Claims use since Dec. 15, 1919.

Ser. No. 131,305. (CLASS 31. FILTERS AND REFRIGERATORS.) BOUSMAN MANUFACTURING COMPANY, Grand Rapids, Mich. Filed Apr. 19, 1920.

BOUMANCO

Particular description of goods.—Filters.

Claims use since Aug. 21, 1919.

Ser. No. 131,965. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed May 3, 1920.

XX

Particular description of goods.—Hose Made of Rubber, Reinforced with Fabric and a Helix of Metal.

Claims use since 1901.

Ser. No. 131,985. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAE H. SCHWINGER, San Fernando, Calif. Filed May 3, 1920.



It is to be understood that I do not limit myself to the use of a natural blossom of the citrus fruit, but may employ an artificial blossom made in imitation of a citrus-fruit blossom.

Particular description of goods.—Honey, Preserved Orange, Orange Marmalade, Orange Jelly, and Orange Jam.

Claims use since Mar. 6, 1920.

Ser. No. 132,029. (CLASS 11. INKS AND INKING MATERIALS.) POLYGON INK COMPANY, London, England. Filed May 4, 1920.

POLYGON

Particular description of goods.—Writing Ink and Ink for Typewriter Carbons and Ribbons and Carbon-Papers for Typewriters.

Claims use since Nov. 21, 1919.

Ser. No. 132,103. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EDSON MOORE & COMPANY, Detroit, Mich. Filed May 6, 1920.

Norine

Particular description of goods.—Cotton Piece Goods—Namely, Organdies, Batistes, Nainsooks, Long-Cloths, Silk and Cotton Fabric, Lawns, Dimities in the Piece, and Handkerchiefs.

Claims use since June 15, 1915.

Ser. No. 132,147. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ALLAN C. RYAN, Elyria, Ohio. Filed May 7, 1920.

PROMET

Particular description of goods.—Acid-Proof Non-Ferrous Metals for Bearings.

Claims use since Feb. 3, 1919.

Ser. No. 132,252. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) HOOVER & STRONG, INC., Buffalo, N. Y. Filed May 10, 1920.



Particular description of goods.—Mercury Used in Dentistry.

Claims use since Dec. 6, 1918.

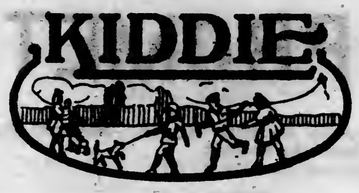
Ser. No. 132,284. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE AMERICAN ROLLING MILL COMPANY, Middletown, Ohio. Filed May 11, 1920.

ARMCO

Particular description of goods.—Bars, Billets, Castings, Forgings, Ingots, Plates, Shapes, Plain and Formed, Coated and Uncoated; Sheets, Rods, Rivet Material, and Wire of Pure Iron.

Claims use since first part of July, 1914.

Ser. No. 132,399. (CLASS 39. CLOTHING.) KIDDIE GARMENT CO. INC., New York, N. Y. Filed May 13, 1920.



Particular description of goods.—Boys' Wash-Suits and Girls' Dresses.
Claims use since February, 1917.

Ser. No. 132,741. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO. INC., Baltimore, Md. Filed May 21, 1920.

CONSCIENCE BRAND

No claim is made to the word "Brand" apart from the other features of the mark.
Particular description of goods.—Mattresses, Pillows, and Box-Springs.
Claims use since Jan. 1, 1918.

Ser. No. 132,765. (CLASS 39. CLOTHING.) WOLFINGER KNITTING MILLS, Reading, Pa. Filed May 21, 1920.

SYLVAN

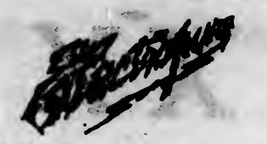
Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since 1910.

Ser. No. 132,792. (CLASS 12. CONSTRUCTION MATERIALS.) N. V. INTERNATIONALE MINERALEN COMPAGNIE, Rotterdam, Netherlands. Filed May 22, 1920.

CUPOLINE

Particular description of goods.—A Fire-Resisting Powdered Material for Use as a Lining for Furnaces, Cupolas, Converters, Steel-Pans, Ladles, and the Like.
Claims use since Dec. 1, 1919.

Ser. No. 133,253. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ELECTROPURE COMPANY, Chicago, Ill. Filed June 7, 1920.



Particular description of goods.—Milk and Butter.
Claims use since May 1, 1920.

Ser. No. 133,451. (CLASS 17. TOBACCO PRODUCTS.) THE CIGAR MAKERS CO-OPERATIVE COMPANY, Cincinnati, Ohio. Filed June 9, 1920.

CIGMACO

Particular description of goods.—Cigars.
Claims use since June 1, 1920.

Ser. No. 134,077. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & CO., Philadelphia, Pa. Filed June 23, 1920.

SILCOJERZ

Particular description of goods.—A Mixture of Silk and Jersey in the Piece.
Claims use since Apr. 29, 1920.

Ser. No. 134,255. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MAGNESIUM PRODUCTS CO. INC., New York, N. Y. Filed June 26, 1920.



Particular description of goods.—Soap Paste.
Claims use since June 15, 1920.

Ser. No. 134,336. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) M. E. SMITH & CO. INC., Omaha and Farnam, Nebr. Filed June 28, 1920.

Bluebird

Particular description of goods.—Washable Cotton Dress Materials in the Piece.
Claims use since Dec. 15, 1919.

Ser. No. 134,647. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERNATIONAL BEDDING CO., INC., Baltimore, Md. Filed July 7, 1920.



No claim is made to the word "Brand" apart from the other features of the mark shown in the drawing.
Particular description of goods.—Mattresses, Pillows, and Box-Springs.
Claims use since Jan. 1, 1918.

Ser. No. 134,649. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JACKSON BREWING COMPANY, New Orleans, La. Filed July 7, 1920.

JAX

Particular description of goods.—Non-Alcoholic, Cereal Beverages Containing Malt, Sold as Soft Drinks, Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.
Claims use since on or about Nov. 1, 1919.

Ser. No. 135,132. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MRS. GEORGIA M. CAUSEY, Macon, Ga. Filed July 19, 1920.



No claim is made to the exclusive right to use the word "Remedies" except as shown on the drawing. Consisting of my portrait printed in oval form and with a conventional representation of rays of light coming from the upper half of oval and the words "The Georgia M. Causey Remedies" printed about the upper part of the circumference of the oval.
Particular description of goods.—Liver and Stomach Medicine, Antiseptic Mouth-Wash and Douche, Vaginal Tampons, Massage Cream, and Suppositories for Vagina or Rectum for Inflammation or Piles.
Claims use since June 26, 1920.

Ser. No. 135,143. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS L. FARKAS, New York, N. Y. Filed July 19, 1920.

NOFFSET PREVENTS OFFSET

The undersigned disclaims any right to the registration of the words "Prevents Offset."
Particular description of goods.—A Chemical Preparation Used as a Preventive of Offsetting and Smudging of Printing.
Claims use since the 1st day of July, 1919.

Ser. No. 136,703. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) GRAPHITE MINES CORPORATION, New York, N. Y. Filed Sept. 1, 1920.

ECONOMY COAL

The word "Coal" in the trade-mark is disclaimed as part thereof.
Particular description of goods.—Coal.
Claims use since Sept. 1, 1919.

Ser. No. 136,747. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Sept. 2, 1920. Under section 9 of the act of Mar. 19, 1920.

DU PONT

Particular description of goods.—Dyestuffs.
Claims use since April, 1918.

Ser. No. 136,872. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CORNING INTERNATIONAL CORPORATION, New York, N. Y. Filed Sept. 7, 1920.

CORNING

Particular description of goods.—Hoes, Machetes, and Axes, Cold Rolled Shafting.
Claims use since May 1, 1919.

Ser. No. 136,874. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CORNING INTERNATIONAL CORPORATION, New York, N. Y. Filed Sept. 7, 1920.

CORNING

Particular description of goods.—Cotton Piece Goods, Worsted Piece Goods, Woolen Piece Goods, and Linen Piece Goods.
Claims use since May 1, 1920.

Ser. No. 136,875. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS. CORNING INTERNATIONAL CORPORATION, New York, N. Y. Filed Sept. 7, 1920.

CORNING

Particular description of goods.—Tool-Steels and Steel Products—Namely, Steel Bars, Wire, Steel Sheets, Tin-Plate, and Hoops.
Claims use since May 1, 1920.

Ser. No. 136,890. (CLASS 39. CLOTHING.) HEATONS (LEEDS,) LTD., Leeds, England. Filed Sept. 7, 1920.

ALWETHA

No claim is made to "Alwetha" apart from the mark as shown.
Particular description of goods.—Ladies' Raincoats.
Claims use since Nov. 12, 1913.

Ser. No. 137,539. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) ORANGE SCREEN CO., South Orange, N. J. Filed Sept. 23, 1920.

ORSCO

Particular description of goods.—Window and Door Screens and Screened-Porch Inclosures.
Claims use since August, 1914.

Ser. No. 137,594. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SEELEY CHEMICAL COMPANY, Eau Claire, Wis. Filed Sept. 24, 1920.

Particular description of goods.—Insecticides.
Claims use since Dec. 1, 1919.

Ser. No. 137,653. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SIGNAL ACCESSORIES CORPORATION, Utica, N. Y. Filed Sept. 25, 1920.

SACO

Particular description of goods.—Block-Signals and Parts Thereof, Railway-Switches and Parts Thereof, Grinding and Drilling Machines, and Vises.
Claims use since Oct. 19, 1913.

Ser. No. 137,638. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Sept. 25, 1920.

NEEDLE-THRIFT

Particular description of goods.—Cotton Piece Goods—Namely, Muslin, Cambric, Long-Cloth, and Nainsook.
Claims use since July 16, 1920.

Ser. No. 137,675. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PRUNELA HEALTH FOOD COMPANY, Dickinson, N. D. Filed Sept. 27, 1920.

PRUNELA HEALTH FOOD

No claim is made to the exclusive use of the words "Health Food" apart from the other features of the mark shown in the drawing.
Particular description of goods.—A Food Composed of Wheat-Bran, Flour, Prunes, Honey, and Milk.
Claims use since about Aug. 23, 1920.

Ser. No. 138,183. (CLASS 39. CLOTHING.) NEVERSET HOSIERY MILLS, INC., New York, N. Y. Filed Oct. 11, 1920.

NEVERSET

Particular description of goods.—Hosiery, and One, Two, and Three Piece Underwear of Knitted, Netted, and Textile Fabrics for Men, Women, and Children.
Claims use since February, 1920.

Ser. No. 138,230. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENRY H. OTTENS MFG. CO., INC., Philadelphia, Pa. Filed Oct. 12, 1920.

QUAKER

Particular description of goods.—Frappé Powder, Icing-Powder, Marshmallow Icing, Whip-Powder, Foam-Powder, Flavoring-Extract, Jelly-Powder, Dry Pie-Filling, Dipping-Cream for Candies, and Syrup-Like Preparation for Making of Candies.
Claims use since 1905.

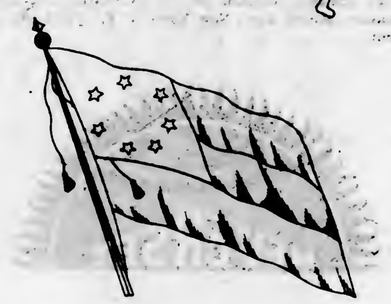
Ser. No. 138,283. (CLASS 39. CLOTHING.) FREELAND OVERALL MANUFACTURING CO., Freeland and Dubois, Pa. Filed Oct. 14, 1920.

Free Land

Particular description of goods.—Work-Coats, Work-Shirts, Work-Pants, Work-Trousers, and Overalls.
Claims use since about Jan. 1, 1900.

Ser. No. 138,561. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWIN C. HAWKINS, Paducah, Ky. Filed Oct. 20, 1920.

PRIDE OF DIXIE



Particular description of goods.—Wheat-Flour.
Claims use since about 1899.

Ser. No. 138,796. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WISCONSIN BUTTER & CHEESE CO., Elkhorn, Wis. Filed Oct. 25, 1920.

ELKO

Particular description of goods.—A Compound Milk.
Claims use since Oct. 2, 1920.

Ser. No. 138,956. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEORGE W. PFOTT CO., Chicago, Ill. Filed Oct. 29, 1920.



Consists of the combinations of the words as shown to form a circular design, having half of the background red.
Particular description of goods.—Certain Parts of Machinery.
Claims use since July 30, 1917.

Ser. No. 139,267. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTOR HALPER, New York, N. Y. Filed Nov. 6, 1920.

TESTOGAN

Particular description of goods.—A Medicinal Preparation Indicated as a Specific for Insufficiency of the Hormones of the Reproductive Glands and the Glands of Internal Secretion, Eunuchoidism, Climacterium, Virile Neurasthenia, Hypochondria, and other Conditions of Physical and Nervous Debility.
Claims use since about Mar. 10, 1920.

Ser. No. 139,268. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTOR HALPER, New York, N. Y. Filed Nov. 6, 1920.

THELYGAN

Particular description of goods.—A Medicinal Preparation Indicated as a Specific for Insufficiency of the Hormones of the Reproductive Glands and the Glands of Internal Secretion, Climacteric Systems, Amenorrhea, Neurasthenia, Hypochondria, Dysmenorrhea, and other Conditions of Physical and Nervous Debility.
Claims use since Mar. 10, 1920.

Ser. No. 139,287. (CLASS 39. CLOTHING.) HYMAN M. KASS, New York, N. Y. Filed Nov. 6, 1920.

GLOBE

Particular description of goods.—Collars and Cuffs.
Claims use since May 15, 1920.

Ser. No. 139,476. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FREDERICK E. RICHARDSON, New York, N. Y. Filed Nov. 10, 1920.

"Richo"

Particular description of goods.—Ice-Cream Powder and Meringue-Powder.
Claims use since Apr. 1, 1920.

Ser. No. 139,528. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LESS-KOAL MANUFACTURING COMPANY, Boston, Mass. Filed Nov. 11, 1920.

LESS-KOAL

Particular description of goods.—A Powdered Composition to be Dissolved in Water and Sprinkled Over Coal to Facilitate Combustion.
Claims use since Oct. 25, 1920.

Ser. No. 139,547. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. S. NOYES COMPANY, Weeks Mills, Me. Filed Nov. 11, 1920.

GARDEN-SIDE

Particular description of goods.—Canned Vegetables.
Claims use since Oct. 29, 1920.

Ser. No. 139,569. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y. Filed Nov. 12, 1920.

STAMBOUL

Exclusive right to use of the word "Stamboul" apart from the mark shown on the drawing is disclaimed.
Particular description of goods.—Wheat-Flour.
Claims use since May 20, 1920.

Ser. No. 139,577. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE ELECTRIC MACHINE COMPANY, Indianapolis, Ind. Filed Nov. 12, 1920.

ELMCo

Particular description of goods.—Stands for Testing Starting-Motors and Electric Generators, and Growlers for Testing Armatures.
Claims use since Oct. 1, 1920.

Ser. No. 139,631. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILL B. ROBINSON, M. D., Mount Gilead, Ohio. Filed Nov. 13, 1920. Under ten-year proviso.

NATHAN TUCKER M.D.
SPECIFIC

Particular description of goods.—A Medicinal Preparation for Asthma, Hay-Fever, and all Catarrhal Diseases of the Respiratory Organs.
Claims use since Feb. 3, 1891.

Ser. No. 139,758. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Nov. 17, 1920.



The pictures shown being fanciful.
Particular description of goods.—Chambray in the Piece.
Claims use since Sept. 24, 1920.

Ser. No. 140,005. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUTOMATIC FUEL SAVING CO., Wilmington, Del. Filed Nov. 23, 1920.

AUTOMATIC FUEL SAVING CO.
AUTOMATIC
COMBUSTION CONTROL
GRAY SYSTEM

No claim being made to the words "Automatic Fuel Saving Co.," "Automatic Combustion Control," "Saves Coal," and "Gray System" apart from the mark shown by the drawing.
Particular description of goods.—Compressed-Air Systems of Automatic Combustion Control for Steam-Boilers.
Claims use since Oct. 26, 1920.

Ser. No. 140,209. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) REPUBLIC MATCH COMPANY, Chicago, Ill. Filed Nov. 26, 1920.



No claim is made to the words, "Made in U. S. A. By" and "Impregnated Safety Match" apart from the mark shown in the drawing illustrating the trade-mark.
Particular description of goods.—Impregnated Matches.
Claims use since Nov. 1, 1920.

Ser. No. 140,262. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.



Particular description of goods.—Tickings, Piece Goods—Namely, Denims and Cheviots.
Claims use since 1918.

Ser. No. 140,405. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HENRY PAULSON, Chicago, Ill. Filed Nov. 29, 1920.

MERITAS

Consisting of the word "Meritas."
Particular description of goods.—Spectacle-Frames, Eyeglass-Frames.
Claims use since Feb. 15, 1904.

Ser. No. 140,482. (CLASS 17. TOBACCO PRODUCTS.) BAYUK BROS., INCORPORATED, Baltimore, Md., and Philadelphia, Pa. Filed Dec. 1, 1920.

HAVANA RIBBON

Particular description of goods.—Cigars, Cigarettes, Chewing-Tobacco, and Smoking-Tobacco.
Claims use since Sept. 18, 1898.

Ser. No. 140,485. (CLASS 17. TOBACCO PRODUCTS.) BAYUK BROS., INCORPORATED, Baltimore, Md., and Philadelphia, Pa. Filed Dec. 1, 1920.

MAPACUBA

Particular description of goods.—Cigars, Cigarettes, Chewing-Tobacco, and Smoking-Tobacco.
Claims use since Nov. 17, 1916.

Ser. No. 140,547. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ROSS & COMPANY, Brooklyn, N. Y. Filed Dec. 2, 1920.

ZYLOCRAFT

Particular description of goods.—Spectacle-Frames and Rims for Spectacle-Frames Made Wholly or in Part of Celluloid.
Claims use since July 27, 1920.

Ser. No. 140,774. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. BAKAL & SON, New York, N. Y. Filed Dec. 8, 1920.



The lining on drawing is for purposes of shading. The picture shown on drawing is fanciful. No claim is made to the words "Real Human Hair Net" and the representation of a hair-net apart from the mark shown on the drawing.
Particular description of goods.—Hair-Nets.
Claims use since about November, 1920.

Ser. No. 140,871. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN DUNN, SON & Co., New York, N. Y. Filed Dec. 10, 1920.

GUANACO

Consists of the word "Guanaco."
Particular description of goods.—Hammers, Pliers, Table Knives and Forks of Base Metal, Sharpening-Steels, Spoons of Base Metal, Pocket-Knives, Cleavers, Razors, Shears, Scissors, Tobacco-Knives, Adzes, Axes, Cane-Knives, Chisels, Planes, Draw-Knives, Hatchets, Hay-Knives, Saws, Shovels and Spades, Wire-Cutters, Windmills, Hay-Presses, Corn-Shellers, Grain Drills and Seeders.
Claims use since January, 1879.

Ser. No. 140,906. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed Dec. 10, 1920.



Particular description of goods.—Chewing-Gum.
Claims use since Dec. 3, 1920.

Ser. No. 140,961. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PHENIX CHEESE CO., New York, N. Y. Filed Dec. 11, 1920.



Particular description of goods.—Milk-Sugar.
Claims use since Nov. 1, 1920.

Ser. No. 140,978. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN BISCUIT COMPANY, San Francisco, Calif. Filed Dec. 13, 1920.

FIESTA

Particular description of goods.—Sugar Wafers in Cake Form and Cakes.
Claims use since December, 1907.

Ser. No. 141,080. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE J. QUINN & COMPANY, INC., New York, N. Y. Filed Dec. 14, 1920.



No claim being made to the words "Worsted Jersey."
Particular description of goods.—Various Lines of Piece Goods—Namely, Silk, Silk and Cotton, Cotton, Woolen, and Worsteds.
Claims use since Oct. 20, 1920.

Ser. No. 141,184. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Dr. B. E. NEAL MEDICINE COMPANY, San Francisco, Calif. Filed Dec. 16, 1920.

Neal-Tone

Particular description of goods.—A General Tonic in Tablet or Pill Form.
Claims use since Feb. 18, 1920.

Ser. No. 141,375. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) THE INDEPENDENT BREWERIES COMPANY, St. Louis, Mo. Filed Dec. 21, 1920.

A·B·C·

Particular description of goods.—A Cereal Malt Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, and Sold as a Soft Drink.
Claims use since Jan. 6, 1920.

Ser. No. 141,733. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) FRANK PFEIFER and BERNARD R. PFEIFER, Fargo, N. D. Filed Dec. 31, 1920.



Particular description of goods.—A Retort for Producing Gas, Tar, and Creosote from Straw and other Vegetable Materials.
Claims use since Mar. 11, 1920.

Ser. No. 141,829. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SIMMONS L. CREEK, Birmingham, Ala. Filed Jan. 4, 1921.

ZEPHYR

Particular description of goods.—Toilet Preparations—Namely, Toilet Cream, Vanishing Cream, Cleansing-Cream, and Shampoo.
Claims use since August, 1917.

Ser. No. 141,892. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) ATLAS TRUCK CORPORATION, York, Pa. Filed Jan. 6, 1921.

ATLAS WORM DRIVE "MERCHANTS' DISPATCH"

No exclusive claim is made to the words "Worm Drive" and "Merchants' Despatch" apart from the mark herein shown.
Particular description of goods.—Motor-Trucks.
Claims use since May 15, 1920.

Ser. No. 141,965. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES E. CESSNA, Chicago, Ill. Filed Jan. 8, 1921.

BONITA

Particular description of goods.—Eye-Waters or Eye-Lotions and Antiseptic and Healing Ointments.
Claims use since Apr. 1, 1920.

Ser. No. 142,017. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HOBART MANUFACTURING COMPANY, Troy, Ohio. Filed Jan. 10, 1921.

Aroma

Particular description of goods.—Machines for Roasting Food Products.
Claims use since December, 1920.

Ser. No. 142,060. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HODGSON PUMP COMPANY, LIMITED, Bamber Bridge, near Preston, England. Filed Jan. 11, 1921.

SUNTURBO

Particular description of goods.—Machine-Pumps.
Claims use since Nov. 21, 1913.

Ser. No. 142,078. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. W. IBBERSON, Sheffield, England. Filed Jan. 11, 1921.



Particular description of goods.—Razors, Table-Knives of Base Metal, Carving-Knives, Bread-Knives, Butchers' Knives, Penknives, Pocket-Knives, Clasp-Knives, Sportsmen's Knives, Scissors; Edge-Tools Consisting of Files, Saws, Plane-Irons, Chisels, Gouges; Hammers, Pincers, Pliers.
Claims use since 1873.

Ser. No. 142,241. (CLASS 39. CLOTHING.) A. ZIEGLER & SONS COMPANY, Roxbury, Mass. Filed Jan. 13, 1921. Under ten-year proviso.

CHESTER

Particular description of goods.—Suspenders, Garters, Men's Belts, and Armbands.
Claims use since 1893.

Ser. No. 142,341. (CLASS 39. CLOTHING.) F. P. HOY INC., New York, N. Y. Filed Jan. 17, 1921.

Francette

Particular description of goods.—Corsets.
Claims use since Feb. 14, 1920.

Ser. No. 142,348. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY F. LINSE, Chicago, Ill. Filed Jan. 17, 1921.



The picture shown in the drawing is applicant's likeness taken from his photo, with his signature written across the lower part of same.

Ser. No. 142,675. (CLASS 39. CLOTHING.) THE STAUBER MANUFACTURING CO., Clinton, Iowa. Filed Jan. 22, 1921.

The Blue Bonnet

Particular description of goods.—Garments for Women and Children—Namely, Aprons and Dresses.
Claims use since Jan. 1, 1921.

Ser. No. 142,724. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 24, 1921.

PLAY TIME

Particular description of goods.—Girls' Dresses.
Claims use since Dec. 8, 1920.

Ser. No. 142,824. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LESEM BACH, New York, N. Y. Filed Jan. 27, 1921.

BACKBONE

Particular description of goods.—Piece Goods Manufactured from or Consisting of Linen, Cotton, Hemps, Silks, or Wool, Used in Making Coat-Fronts.
Claims use since May, 1920.

Ser. No. 142,853. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DAVID ROBINSON, Brooklyn, N. Y. Filed Jan. 27, 1921.

BUFFALO
BEST BY TEST
AMMONIA

No claim being made to the exclusive use of the words "Best by Test" and "Ammonia" apart from the mark as shown on the drawing.
Particular description of goods.—Ammonia.
Claims use since April, 1896.

Ser. No. 142,881. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FOAMITE FIREFOAM COMPANY, New York, N. Y. Filed Jan. 28, 1921.

ALLWEATHER

Particular description of goods. — Fire-Extinguishing Compounds.
Claims use since Dec. 1, 1920.

Ser. No. 142,944. (CLASS 39. CLOTHING.) JACOB STEIN, New York, N. Y. Filed Jan. 29, 1921.

PRESTO

Consisting of the word "Presto."
Particular description of goods.—Baby-Pants and Aprons.
Claims use since Nov. 20, 1920.

Ser. No. 142,996. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO. INC., New York, N. Y. Filed Jan. 31, 1921.

CRUSADER

Particular description of goods.—Woven Cotton Piece Goods.
Claims use since July, 1919.

Ser. No. 143,159. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CANTOL WAX COMPANY, San Antonio, Tex. Filed Feb. 4, 1921.

APIMELA

Particular description of goods.—A Beeswax Substitute.
Claims use since 1914.

Ser. No. 143,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y. Filed Feb. 4, 1921.

ALCORUB

Particular description of goods.—Composition Containing Alcohol for Bathing, Massage, and other External Uses.
Claims use since Feb. 3, 1921.

Ser. No. 143,194. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y. Filed Feb. 4, 1921.

ALCORUB

Particular description of goods.—Composition Containing Alcohol for Bathing and Massage and other External Uses.
Claims use since Feb. 3, 1921.

Ser. No. 143,205. (CLASS 12. CONSTRUCTION MATERIALS.) CHICAGO FIRE BRICK CO., Chicago, Ill. Filed Feb. 5, 1921.

C

"C" in circles.
Particular description of goods.—Fire-Brick, Flue-Lining, Well-Coping, Brick Drain-Tile, Clay Sewer-Pipes, Portland Cement, Lime, Hollow Tile, Clay Tile, Metal Lath, Wooden Lath, and Plaster.
Claims use since Jan. 1, 1921.

Ser. No. 143,214. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KATZENBACH & BULLOCK CO., New York, N. Y. Filed Feb. 5, 1921.

Particular description of goods.—Acetone, Acetic Acid, Alum, Alumina Sulfate, Ammonia Carbonate, Ammonia Chlorid, Ammonia Nitrate, Ammonia Phosphate, Ammonia Sulfate, Amyl Acetate, Amyl Alcohol, Anhydrous Ammonia, Anilin Salts, Antimony Salts, Aqua Ammonia, Aqua-Fortis Acid, Barium Binoxid, Barium Carbonate, Barium Chlorid, Barium Peroxid, Barium Sulfate, Battery-Acid, Benzol, Bleaching-Powder, Blue Vitriol, Boracic Acid, Borax, Calcium Chlorid, Carbolic Acid, Carbon Bisulfid, Carbon Tetra Chlorid, Cobalt Sulfate, Copperas, Cresol, Creosote, Epsom Salts, Formic Acid, Formaldehyde, Glauber Salt, Glycerin, Hydrochloric Acid, Hydrofluoric Acid, Iron Liquor, Iron Perchlorid, Iron Nitrate, Iron Sulfate, Lead Acetate, Lead Arsenate, Lead Nitrate, Lead Oxid, Lye, Magnesia, Magnesite, Magnesium Carbonate, Magnesium Oxid, Magnesium Chlorid, Mixed Acid, Nickel

Oxid, Nickel Salts, Nitric Acid, Oxalic Acid, Paris Green, Phosphoric Acid, Phosphorus, Picric Acid, Potash Bichromate, Potash Binoxalate, Potash Caustic, Potash Carbonate, Potash Cyanid, Potash Nitrate, Potash Permanganate, Potash Prussiate, Pyroligneous Acid, Red Arsenic, Sal-Ammoniac, Sal-Soda, Soda Acetate, Soda-Ash, Soda Bicarbonate, Soda Bichromate, Soda Bisulfite, Soda Carbonate, Soda Caustic, Soda Crystals, Soda Hyposulfite,

K&B

Soda Nitrate, Soda Nitrite, Soda Phosphate, Soda Prussiate, Soda Silicate, Soda Sulfate, Soda Sulfid, Soda Sulfite, Stearic Acid, Sulfur, Sulfuric Acid, Sulfurous Acid, Tin Crystals, Tin Oxid, Titanium Potassium Oxalate, Toluol, White Arsenic, Zinc Chlorid, Zinc Sulfate, Zinc Stearate, Beta Naphthol, Alphanaphthylamin, Dimethylanilin, Hexamethylenetetramin.
Claims use since June, 1910.

Ser. No. 143,267. (CLASS 39. CLOTHING.) HUNTINGTON SHOE AND LEATHER COMPANY, Huntington, Ind. Filed Feb. 7, 1921.

THE CO-WORKER SHOE

No exclusive right is claimed to the use of the word "Shoe" except in connection with the other features of the mark.
Particular description of goods.—Boots and Shoes of Leather, Skins, Hides, or Partly of Leather, Skins, and Hides and Cloth.
Claims use since Jan. 1, 1921.

Ser. No. 143,372. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) WESTERN INDUSTRIES CO., San Francisco, Calif. Filed Feb. 9, 1921.

WICO

Particular description of goods.—Ethyl Alcohol.
Claims use since June 28, 1920.

Ser. No. 143,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PRONTIC DRUGGISTS INC., Baltimore, Md. Filed Feb. 10, 1921.

PRONTO

Particular description of goods.—Bromics, for Headache, Nervousness, Nervous Exhaustion, and Mental Depression; Cold and Grippe Tablets, for Colds, La Grippe, and Influenza; Digestives, for Indigestion, Constipation, and for Elimination of Food-Poisons Accumulated in the Lower Bowel; Indigestion Tablets, for Chronic Constipation and Indigestion; Laxative Aspirin, for the Pain of Headache, Colds, Aching Joints, Lumbago, Rheumatism, Neuralgia, Sciatica, Toothache, Earache, the Menstrual Period; Little Liver Pills, for a Torpid Liver, for the Elimination of Poisons from the Body Which Would Otherwise Find Their Way in the Blood Stream, and for Eliminating Waste Matter of the Body; Kidney and Bladder Pills, for the Kidneys and Liver, for Eliminating Waste Products of the Body, and for the Purpose of Flushing the Kidneys and Restoring the Urine to Its Healthy Quantity, Color, and Non-Irritating Condition; Blood and Nerve Tonic, for Restoring to the Blood Those Elements Which Have Become Missing, Occasioned by Sickness or Run-Down Condition, Restoring Artificially Before the Body Can Become Strong Enough to Extract Certain Elements from Food in Necessary Quantities to Even Up the Exhausted Supply; Hair-Tonic, for Treatment of the Scalp for the Prevention of Dandruff; Liniment, for Rheumatic, Neuralgic, and All Localized Pains, for Sprains, Stiffened Muscles and Joints, Bruises, Painful Swellings, Frost-Bites, Stings of Insects, Muscular Fatigue, Sore and Tired Feet; Soothing Skin-Ointment, for Eczema and Kindred Skin Diseases, for Skin Irritations, Burns, Scalds, Chafes, Insect Stings and Bites, Rashes, Pimples, Boils, Minor Wounds, and Abrasions of the Skin; Healing Cold-Cream, for Chafing of Infants or Stout People, for Sunburn, Windburn, Chapped Hands or Face, Redness, Pimples, Rashes, Burns, or Scalds; Antiseptic, for Cuts, Wounds, and Open Sores; Corn-Remover, for Removing Corns and Callous Skin; Tonic Restorative, a Blood-Tonic for Building Up the Blood After Hard Physical or Mental Strain or After an Exhausting Illness, Such as Influenza and Typhoid or Other Fevers; Rheumatic Relief, a Liniment for Rubbing All Localized Pains; Headache-Seltzer, for Headache; Toothache Relief, for Toothache; Fruit Phosphate, for Flushing Sluggish or Diseased Kidneys.
Claims use since on or about Feb. 1, 1921.

Ser. No. 143,470. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ANDREW JERGENS COMPANY, Cincinnati, Ohio. Filed Feb. 12, 1921.

JAC-LIN

Particular description of goods.—Perfume.
Claims use since Jan. 10, 1921.

Ser. No. 143,471. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ANDREW JERGENS COMPANY, Cincinnati, Ohio. Filed Feb. 12, 1921.

ACTA SENTALIS

Particular description of goods.—A Skin-Lotion.
Claims use since Jan. 27, 1921.

Ser. No. 143,492. (CLASS 39. CLOTHING.) SOLOMON GARDE, Seattle, Wash. Filed Feb. 12, 1921.

POLLY ANNA

That portion of the mark shaded in the drawing indicates a red color.
Particular description of goods.—Ladies' Aprons and House-Dresses.
Claims use since Jan. 1, 1918.

Ser. No. 143,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SODERSEINE COMPANY OF NORTH AMERICA, Wilmington, Del., and Brooklyn, N. Y. Filed Feb. 12, 1921.

Soderseine

Particular description of goods.—A Solution of True Colloidal Bismuth Which is Colorless, Tasteless, and Odorless and Used with Success in the Treatment of Whooping-Cough, (Pertussis) and Its Complications, Such as Bronchitis, Pneumonia, Otitis Media, and Nasal Hemorrhage.
Claims use since Feb. 1, 1920.

Ser. No. 143,652. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) MARRET, BONNIN, LEBEL & GUIEU, Paris, France. Filed Feb. 16, 1921.

"OSMIOR"

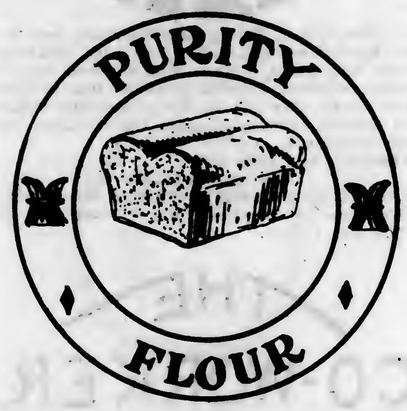
Consists of the invented word "Osmior."
Particular description of goods.—Jewelry and Jewelers' Goods.
Claims use since about Nov. 1, 1919.

Ser. No. 143,660. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROANOKE CANDY COMPANY, INC., Roanoke, Va. Filed Feb. 16, 1921.



No claim is made herein to the exclusive use of the words "Taste Tells" appearing on the drawing apart from the trade-mark shown.
Particular description of goods.—Hard Candy.
Claims use since Jan. 21, 1921.

Ser. No. 143,742. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. J. CAHILL COMPANY, Meriden, Conn. Filed Feb. 18, 1921.



The applicant disclaims any rights to the pictorial representation of a loaf of bread, the word "Purity," and the word "Flour" in connection with the trade-mark shown aside from the drawing of the mark.
Particular description of goods.—Wheat-Flour.
Claims use since Feb. 18, 1918.

Ser. No. 143,754. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GALLAND-HENNING MFG. CO., Milwaukee, Wis. Filed Feb. 18, 1921.

ACME

Particular description of goods.—Machinery Consisting of Hydraulic Presses, Screen-Presses, Pumps, Balers, Compresses, and Shock-Alleviators.
Claims use since June 23, 1917.

Ser. No. 143,782. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PIONEER CREAMERY CO., Galesburg, Ill. Filed Feb. 18, 1921.



Particular description of goods.—Butter, Eggs, and Cream.
Claims use since Oct. 15, 1908, on butter; since October, 1908, on cream; since January, 1915, with eggs.

Ser. No. 143,828. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO., INC., New York, N. Y. Filed Feb. 19, 1921.

1620

Particular description of goods.—Woven Cotton Piece Goods—Namely, Cotton Canvas.
Claims use since March, 1915.

Ser. No. 143,982. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEORGE F. CHISM, Columbus, Ohio. Filed Feb. 24, 1921.

AUTOPHORE

Particular description of goods.—Mechanical Traffic-Signals for Vehicles.
Claims use since Feb. 1, 1921.

Ser. No. 144,067. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COMO CHEMICAL CO., Kokomo, Ind. Filed Feb. 26, 1921.



Particular description of goods.—Sulfate of Alumina.
Claims use since Oct. 13, 1920.

Ser. No. 144,088. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELVETIA MILK CONDENSING COMPANY, Highland, Ill. Filed Feb. 26, 1921.



Particular description of goods.—Unsweetened Evaporated Milk and Full-Cream Unsweetened Evaporated Milk, Condensed Milk Sweetened, and Full-Cream Condensed Milk Sweetened, and Whole-Cream Milk Unsweetened, Not Condensed.
Claims use since June 1, 1912.

Ser. No. 144,089. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELVETIA MILK CONDENSING COMPANY, Highland, Ill. Filed Feb. 26, 1921.

HONOR

Particular description of goods.—Unsweetened Evaporated Milk and Full-Cream Unsweetened Evaporated Milk, Condensed Milk Sweetened and Full-Cream Condensed Milk Sweetened, and Whole-Cream Milk Unsweetened, Not Condensed.
Claims use since June 1, 1912.

Ser. No. 144,101. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) PERFEX RADIATOR COMPANY, Racine, Wis. Filed Feb. 26, 1921.

PERFEX

Particular description of goods.—Automobile-Radiators.
Claims use since Aug. 1, 1911.

Ser. No. 144,139. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOODE & DUNKIE, Covington, Ky. Filed Feb. 28, 1921.

GOLDEN BLEND

No claim is made to the word "Blend" apart from the mark shown in the drawing.
Particular description of goods.—Coffee.
Claims use since early part of June, 1901.

Ser. No. 144,163. (CLASS 39. CLOTHING.) SURPASS HOSIERY CO., Philadelphia, Pa. Filed Feb. 28, 1921.

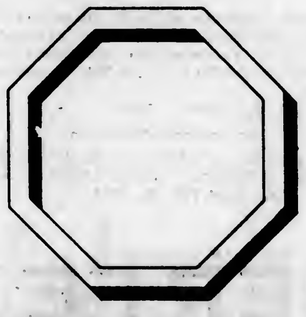


No claim is made to the word "Hosiery" apart from the mark shown in the drawing.

Particular description of goods.—Hosiery for Men, Women, and Children.

Claims use since Jan. 26, 1921.

Ser. No. 144,170. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) AMERICAN STEEL FOUNDRIES, Chicago, Ill. Filed Mar. 1, 1921.



Particular description of goods.—Anchors, Electric-Generator Castings, Ship-Castings, Roller-Mill Castings, Hydraulic-Cylinder Castings, Dredge-Castings, Locomotive-Castings, and Sugar Mill Castings.

Claims use since January, 1903.

Ser. No. 144,213. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN J. WILLIAMS, Brooklyn, N. Y. Filed Mar. 1, 1921.



Particular description of goods.—Corn Remedy.

Claims use since September, 1916.

Ser. No. 144,307. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES I. BRUNSON, Philadelphia, Pa. Filed Mar. 5, 1921.

THE J.I.B.

Particular description of goods.—Indigestion Medicine.

Claims use since June 25, 1920.

Ser. No. 144,316. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT ROY FLANIGAN, Williamsport, Pa. Filed Mar. 5, 1921.

PIP SISSEWA

Particular description of goods.—Medicinal Preparation for Rheumatism, Gout, Lame Back, Lumbago, and Kidney and Bladder Diseases.

Claims use since Jan. 18, 1921.

Ser. No. 144,325. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUSTAV T. FLOTO, Washington, D. C. Filed Mar. 5, 1921.



Particular description of goods.—A Salve for Piles.

Claims use since about Jan. 1, 1917.

Ser. No. 144,393. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT C. GUZZARDO, Kansas City, Mo. Filed Mar. 7, 1921.

SIRENA



Particular description of goods.—Preparation for Relief of Venereal Disease.

Claims use since about Jan. 29, 1921.

Ser. No. 144,412. (CLASS 39. CLOTHING.) OGUS RABINOVICH & OGUS CO., Chicago, Ill. Filed Mar. 7, 1921.



Particular description of goods.—Women's and Children's Hats.

Claims use since 1917.

Ser. No. 144,431. (CLASS 39. CLOTHING.) SPEEDBO NECKWEAR COMPANY, Kansas City, Mo. Filed Mar. 7, 1921.



Particular description of goods.—Ties and Cravats.

Claims use since Mar. 2, 1921.

Ser. No. 144,455. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) L. Y. FIGUEROA & P. S. WALDORF CO., Milwaukee, Wis. Filed Mar. 8, 1921.

La Veronica

Particular description of goods.—Skin-Cream.

Claims use since Feb. 21, 1921.

Ser. No. 144,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETER MEYER, New York, N. Y. Filed Mar. 8, 1921.

HONEYDEW

Particular description of goods.—Face-Powder and Rouge.

Claims use since December, 1920.

Ser. No. 144,483. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRU-BLU BISCUIT COMPANY, Spokane, Wash. Filed Mar. 8, 1921.

Liberal Arts

Particular description of goods.—Candy.

Claims use since July 2, 1915.

Ser. No. 144,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRU-BLU BISCUIT COMPANY, Spokane, Wash. Filed Mar. 8, 1921.

FOURMOST

Particular description of goods.—Candy.

Claims use since Oct. 20, 1913.

Ser. No. 144,488. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRU-BLU BISCUIT COMPANY, Spokane, Wash. Filed Mar. 8, 1921.

Stellar

Particular description of goods.—Candy.
Claims use since Aug. 19, 1913.

Ser. No. 144,489. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAURA WILEY, New York, N. Y. Filed Mar. 8, 1921.

LAUREL



Particular description of goods.—Hair-Grower.
Claims use since about Mar. 1, 1920.

Ser. No. 144,553. (CLASS 6. CHEMICALS. MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT IRVING WILLMARTH, Jersey City, N. J. Filed Mar. 9, 1921.



Particular description of goods.—Tooth-Paste.
Claims use since Feb. 14, 1921.

Ser. No. 144,554. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WEICHSEL LABORATORIES, Dallas, Tex. Filed Mar. 9, 1921.

Minda

Particular description of goods.—Mud Massage-Cream, Cold-Cream, Vanishing Cream, and Face-Powder.
Claims use since Jan. 14, 1921.

Ser. No. 144,558. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. B. BASS, Kansas City, Mo. Filed Mar. 10, 1921.

BLACK JOE



The figure shown on said drawing being a fanciful representation of a negro.
Particular description of goods.—A Liquid Dye Preparation.
Claims use since Feb. 27, 1918.

Ser. No. 144,583. (CLASS 39. CLOTHING.) ISRAEL M. MIRSKY, Milwaukee, Wis. Filed Mar. 10, 1921.



Particular description of goods.—Underwear—Namely, of Knitted and Textile Fabric—One, Two, and Three Piece Garments for Men, Women, and Children, and Hosiery.
Claims use since Jan. 2, 1914.

Ser. No. 144,632. (CLASS 39. CLOTHING.) NEUMAN & RUBIN, Philadelphia, Pa. Filed Mar. 11, 1921.

JEWEL

Particular description of goods.—Bathing-Rompers.
Claims use since about Sept. 2, 1920.

Ser. No. 144,688. (CLASS 12. CONSTRUCTION MATERIALS.) SHULL LUMBER & SHINGLE CO., Seattle, Wash. Filed Mar. 12, 1921.



The lines on the drawing indicate the color red. The word "Shingles" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Shingles.
Claims use since Jan. 20, 1921.

Ser. No. 144,691. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEXAS STAR FLOUR MILLS, Galveston, Tex. Filed Mar. 12, 1921.



No claim being made to the exclusive use of the words "Flour Mills" apart from the mark as shown in the drawing.
Particular description of goods.—Wheat-Flour.
Claims use since Sept. 30, 1888.

Ser. No. 144,722. (CLASS 39. CLOTHING.) INTERNATIONAL CORSET COMPANY, Aurora, Ill. Filed Mar. 14, 1921.

"Bendilo"

Particular description of goods.—Corsets.
Claims use since Jan. 3, 1921.

Ser. No. 144,730. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) P. H. MURPHY COMPANY, New Kensington, Pa. Filed Mar. 14, 1921. Under ten-year proviso.

MURPHY ROOF

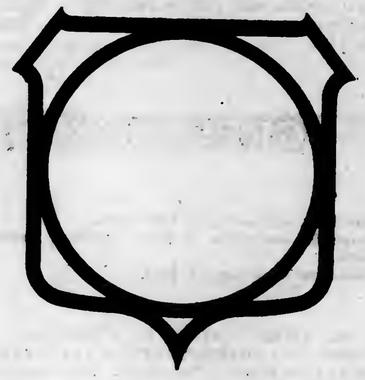
Particular description of goods.—Railroad-Car Metal Roofs and Parts of Such Roofs—Namely, Roof-Sheets, Anchors, Flashings, Seam-Caps, Ridge-Caps, Center Caps, Roof-Castings, and Running-Board Saddles.
Claims use since 1890.

Ser. No. 144,734. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALEXANDER BRUCE MCCARTNEY, Marshalltown, Iowa. Filed Mar. 14, 1921.

Nugola

Particular description of goods.—Candies.
Claims use since Jan. 2, 1920.

Ser. No. 144,746. (CLASS 39. CLOTHING.) J. P. SMITH SHOE CO., Chicago, Ill. Filed Mar. 14, 1921.



Particular description of goods.—Leather Shoes, Shoes of Canvas and Leather, Shoes of Canvas and Rubber, and Shoes of Leather and Rubber.
Claims use since Jan. 13, 1921.

Ser. No. 144,747. (CLASS 39. CLOTHING.) J. P. SMITH SHOE CO., Chicago, Ill. Filed Mar. 14, 1921.



Particular description of goods.—Leather Shoes, Shoes of Canvas and Leather, Shoes of Canvas and Rubber, and Shoes of Leather and Rubber.
Claims use since Jan. 13, 1921.

Ser. No. 144,748. (CLASS 39. CLOTHING.) J. P. SMITH SHOE CO., Chicago, Ill. Filed Mar. 14, 1921.



Particular description of goods.—Leather Shoes, Shoes of Canvas and Leather, Shoes of Canvas and Rubber, and Shoes of Leather and Rubber.
Claims use since May 19, 1917.

Ser. No. 144,782. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE OSBORN MANUFACTURING COMPANY, Cleveland, Ohio. Filed Mar. 15, 1921.

GREEN BAND

The lining expressing the color green.
Particular description of goods.—Molders' Bellows and Shovels.
Claims use since Jan. 22, 1921.

Ser. No. 144,829. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMMA L. MCDOWELL, Chicago, Ill. Filed Mar. 16, 1921.

MAC-CO

Particular description of goods.—Tonics and Dressings for Treatment of Hair and Scalp.
Claims use since June 18, 1920.

Ser. No. 144,895. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE BONNIE-B COMPANY, INC., New York, N. Y. Filed Mar. 18, 1921.

Bonnie-B

Particular description of goods.—Powder-Puffs.
Claims use since Feb. 15, 1921.

Ser. No. 144,902. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EVER SHARP FILE CO., Taunton, Mass. Filed Mar. 18, 1921.



The lining expressing the color red, and no claim being made to the exclusive use of the representation of the file nor to the word "Presharpened" apart from the mark as shown on the drawing.
Particular description of goods.—Files.
Claims use since Dec. 21, 1920.

Ser. No. 144,907. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GREENFIELD TAP AND DIE CORPORATION, Greenfield, Mass. Filed Mar. 18, 1921.

MAXI

Particular description of goods.—Thread-Cutting Taps.
Claims use since July 31, 1917.

Ser. No. 144,912. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HECHT & MENDES INCORPORATED, New York, N. Y. Filed Mar. 18, 1921.



Applicant hereby disclaims the exclusive right to the use of word "Serge" apart from the mark as shown on the drawing.
Particular description of goods.—Serges in the Piece.
Claims use since July 1, 1920.

Ser. No. 144,914. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HECHT & MENDES INCORPORATED, New York, N. Y. Filed Mar. 18, 1921.



No claim being made to the word "Duvetyn" apart from the mark as shown.
Particular description of goods.—Napped Cotton, Wool, or Silk Piece Goods Known Commercially as duvetyn.
Claims use since Jan. 1, 1920.

Ser. No. 144,936. (CLASS 39. CLOTHING.) NORTHERN JOBBING COMPANY, Chicago, Ill. Filed Mar. 18, 1921.

R.C.U.

Particular description of goods.—Shoes Made of Leather, Rubber, Fabrics, or Combinations of Same.
Claims use since July 1, 1919.

Ser. No. 144,951. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WEICHSEL BARBER SUPPLY CO., Dallas, Tex. Filed Mar. 18, 1921.

PEP

Particular description of goods.—Face-Powders, Face-Creams, Perfumes, Toilet Waters, Rouges, Hair-Tonic, Shampoos, Dentifrices, Tooth-Powders, Nail-Polishes, Deodorizing Preparations, and Sachet-Powders.
Claims use since July 13, 1920.

Ser. No. 144,990. (CLASS 39. CLOTHING.) STACY-ADAMS COMPANY, Brockton, Mass. Filed Mar. 19, 1921.

STACY-ADAMS
TOOT
FLEX

Particular description of goods.—Boots and Shoes.
Claims use since Mar. 10, 1921.

Ser. No. 144,994. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa. Filed Mar. 19, 1921.

Wonderbox

Particular description of goods.—Candy.
Claims use since May, 1915.

Ser. No. 145,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. L. MONTGOMERY, Memphis, Tenn. Filed Mar. 21, 1921.



Particular description of goods.—Cotton-Seed Meal.
Claims use since Nov. 1, 1910.

Ser. No. 145,051. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WISCONSIN HONEY FARM, Oconomowoc, Wis. Filed Mar. 21, 1921.



No claim is made to the exclusive use of the word "Honey" or "Badger Brand" apart from the mark shown on the drawing.
Particular description of goods.—Comb and Extracted Honey.
Claims use since July 18, 1918.

Ser. No. 145,079. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PATTERSON MINERAL WATER & BEVERAGE CO., Chicago, Ill. Filed Mar. 22, 1921.

SINN FEIN

Particular description of goods.—A Maltless, Non-Cereal Beverage Sold as a Soft Drink and Syrup for Making the Same.
Claims use since Mar. 1, 1921.

Ser. No. 145,082. (CLASS 12. CONSTRUCTION MATERIALS.) RIORDON COMPANY, LIMITED, Montreal, Quebec, Canada. Filed Mar. 22, 1921.



Applicant disclaims any exclusive right to the words "Made in Canada" apart from the mark shown on the drawing.
Particular description of goods.—Lumber, Laths, Shingles, Clapboards, Pickets, Moldings, Foot-Boards, Sash, Doors, Railway-Ties, and Box-Shooks, All Made of Wood.
Claims use since July, 1919.

Ser. No. 145,128. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE RED DEVIL PATCH CO., Hopkinsville, Ky. Filed Mar. 23, 1921.



Particular description of goods.—Sheet-Rubber Patches for Inner Tubes and Tires for Vehicles.
Claims use since Sept. 9, 1917.

Ser. No. 145,171. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) NORTHRUP EQUIPMENT COMPANY, Parkersburg, W. Va. Filed Mar. 24, 1921.

NECO

Particular description of goods.—Oil-Well Pumps, Valves and other Parts of Pumps, and Oil-Well Pumping Equipment.
Claims use since June 3, 1920.

Ser. No. 145,183. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES H. VALIN, Wellaston, Mass. Filed Mar. 24, 1921.

TOPSALL

Particular description of goods.—Frostings for Pastries.
Claims use since Nov. 1, 1920.

Ser. No. 145,208. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FORD DEALERS SUPPLY COMPANY, Indianapolis, Ind. Filed Mar. 25, 1921.

LONG LIFE

Particular description of goods.—Governors for Governing the Speed of Internal-Combustion Motors.
Claims use since Nov. 15, 1920.

Ser. No. 145,258. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DETROIT BEVEL GEAR COMPANY, Detroit, Mich. Filed Mar. 26, 1921.

BG

Particular description of goods.—Gears of All Kinds—viz., Spiral and Straight Bevel-Gears, Spur-Gears, Worm-Gears, Internal and Differential Gears, Also Differential Cases for Vehicle Rear Axles.
Claims use since about Sept. 1, 1920.

Ser. No. 145,283. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NO RUMA MEDICINE CO., Albuquerque, N. Mex. Filed Mar. 26, 1921.

NO RUMA

Particular description of goods.—A Medicinal Preparation for the Treatment of Rheumatism, Lumbago, and Kindred Diseases.
Claims use since Sept. 10, 1920.

Ser. No. 145,290. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) P. R. RINCONES, Jr. CO. INC., New York, N. Y. Filed Mar. 26, 1921.

Contraluesin

Particular description of goods.—Mercury Injection.
Claims use since March, 1920.

Ser. No. 145,294. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) TRANSPORTATION ENGINEERING CORPORATION, New York, N. Y. Filed Mar. 26, 1921.



The words "Coated Electrodes" are disclaimed apart from the mark shown by the drawing.
Particular description of goods.—Arc-Welding Metal Electrodes.
Claims use since about Apr. 30, 1920.

Ser. No. 145,313. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Mar. 28, 1921.



Particular description of goods.—Candy.
Claims use since Mar. 18, 1918.

Ser. No. 145,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PEP ELECTROLYTE CO., Chicago, Ill. Filed Mar. 28, 1921.

PEP

Particular description of goods.—Storage-Battery Electrolyte.
Claims use since Feb. 26, 1920.

Ser. No. 145,386. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEO ALBERT BORGET, San Francisco, Calif. Filed Mar. 29, 1921.

EGYPTO

Particular description of goods.—A Medicine for Treatment of Nervous System.
Claims use since June 1, 1913.

Ser. No. 145,431. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE BAYER COMPANY, INC., New York, N. Y. Filed Mar. 30, 1921.

CAFIASPIRINA

Particular description of goods.—Antirheumatic, Analgesic, and Antipyretic.
Claims use since about Feb. 16, 1921.

Ser. No. 145,452. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM T. HADLEY, Ontario, Calif. Filed Mar. 30, 1921.

OLD IRON SPOON

Particular description of goods.—A Compound of Vegetable, Balsamic, and Mineral Oils Containing a Quickly-Absorbed Tonic Nutrient for a Mash and for a Tonic, All for Use as Medicine for Poultry.
Claims use since 1915.

Ser. No. 145,512. (CLASS 39. CLOTHING.) F. M. HOYT SHOE COMPANY, Manchester, N. H. Filed Mar. 31, 1921.

EL FARO

Particular description of goods.—Leather Boots and Shoes.
Claims use since 1910.

Ser. No. 145,521. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MALT-DIASTASE COMPANY, New York, N. Y. Filed Mar. 31, 1921.

M. D.'S
FIRESIDE BRAND

The word "Brand" being disclaimed.
Particular description of goods.—Non-Alcoholic Malt Extracts.
Claims use since Mar. 21, 1921.

Ser. No. 145,567. (CLASS 39. CLOTHING.) THE KIRSCHENBAUM CORPORATION, Baltimore, Md. Filed Apr. 1, 1921.

K + VALUE

Particular description of goods.—Men's, Women's, and Children's Suits, Dresses, Coats, Cloaks, Skirts, Capes, Shirts, Waists, Children's Rompers, Middy-Blouses, Neckwear, Collars, Hosiery, Hats, Caps, Shirts, Underwear, Petticoats, Underskirts, Infants' Coats and Dresses, Women's Camisoles, Night-Dresses, Bloomers, Nightgowns, Drawers, and Lingerie.
Claims use since Oct. 1, 1920.

Ser. No. 145,596. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THRONETT & CO., INC., Chicago, Ill. Filed Apr. 1, 1921.



Particular description of goods.—A Maltless, Non-Alcoholic Beverage Sold as a Soft Drink and Syrups for the Manufacture of the Same.
Claims use since Jan. 1, 1921.

Ser. No. 145,609. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. P. CLEARWATER, Hallowell, Me. Filed Apr. 2, 1921.

VENOX

Particular description of goods.—Treatment for Piles and Hemorrhoids.
Claims use since about November, 1918.

Ser. No. 145,625. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOME WEAVING WORKS, Chicago, Ill. Filed Apr. 2, 1921.

RED SHIELD BRAND



VEL-VET-TEE RUG

No claim is made to the words "Vel-vet-Tee," "Brand," and "Rugs" apart from the mark shown in the drawing, and the shading on the drawing is used to denote the color red.
Particular description of goods.—Carpets and Rugs, Not Including Felt and Fur Rugs and Rubber Mats.
Claims use since January, 1906.

Ser. No. 145,653. (CLASS 39. CLOTHING.) STANDARD OVERALL COMPANY, Baltimore, Md. Filed Apr. 2, 1921.

BIG SAM

Particular description of goods.—Overalls and Work-Shirts.
Claims use since Jan. 2, 1911.

Ser. No. 145,786. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE INDIA TIRE AND RUBBER COMPANY, Akron and Mogadore, Ohio. Filed Apr. 6, 1921.

ORIENT

Particular description of goods.—Pneumatic Vehicle-Tires Composed of Rubber or Fabric and Rubber and Inner Tubes.
Claims use since Mar. 9, 1921.

Ser. No. 145,914. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill. Filed Apr. 8, 1921.

ANGELUS

Particular description of goods.—Marshmallows, Chocolates, Fudge, Filled Candies, Hard Candies, and Stick-Candies.
Claims use since May 10, 1906.

Ser. No. 145,920. (CLASS 37. PAPER AND STATIONERY.) SALZ BROTHERS, New York, N. Y. Filed Apr. 8, 1921.

RITOGRAPH

Particular description of goods.—Stylographic Pens.
Claims use since Dec. 27, 1919.

Ser. No. 145,925. (CLASS 37. PAPER AND STATIONERY.) A. P. W. PAPER COMPANY, Albany, N. Y. Filed Apr. 9, 1921.

VICTOR

Particular description of goods.—Toilet-Paper, Tissue-Paper, Crape Paper, and Paper Towels.
Claims use since 1896.

Ser. No. 145,929. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN STEEL WOOL MFG. CO. INC., New York, N. Y. Filed Apr. 9, 1921.



Particular description of goods.—Steel-Wool for Cleaning and Polishing Purposes.
Claims use since Feb. 8, 1921.

Ser. No. 145,948. (CLASS 38. PRINTS AND PUBLICATIONS.) THE INTERNATIONAL COMPANY, Baltimore, Md. Filed Apr. 9, 1921.

Timely
Tips
for
BAKERS

Particular description of goods.—Pamphlets and Booklets Published Periodically at Least Once a Year.
Claims use since latter part of 1917.

Ser. No. 145,950. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CLARENCE E. JENKINS, Keene, N. H. Filed Apr. 9, 1921.

UTILA

Particular description of goods.—Clay-Mashers and Potato-Mashers.
Claims use since on or about Mar. 1, 1921.

Ser. No. 145,952. (CLASS 38. PRINTS AND PUBLICATIONS.) CLARENCE B. JOHNSON, Minneapolis, Minn. Filed Apr. 9, 1921.

VelveteX

Particular description of goods.—Photographs.
Claims use since Jan. 11, 1921.

Ser. No. 145,963. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) PACIFIC COAST RUBBER & SUPPLY CO., San Francisco, Calif. Filed Apr. 9, 1921.

PAXTITE

Particular description of goods.—Composition Sheet-Packing.
Claims use since 1915.

Ser. No. 145,964. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PIRIKA CHOCOLATE CO. INC., Brooklyn, N. Y. Filed Apr. 9, 1921.

CALABAR

No claim being made to the exclusive use of the word "Bar" apart from the mark as shown in the drawing.
Particular description of goods.—Candy.
Claims use since Apr. 10, 1920.

Ser. No. 145,967. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PIRIKA CHOCOLATE CO., INC., Brooklyn, N. Y. Filed Apr. 9, 1921.

SILVER SLIP

Particular description of goods.—Candy.
Claims use since May 1, 1919.

Ser. No. 146,011. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. GASTUN & COMPANY, INC., New York, N. Y. Filed Apr. 11, 1921.

MIRANDA

Particular description of goods.—Wheat-Flour.
Claims use since Feb. 5, 1920.

Ser. No. 146,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex. Filed Apr. 11, 1921.

Western Scout

Particular description of goods.—Wheat-Flour.
Claims use since December, 1920.

Ser. No. 146,030. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PORTO RICO CONSOLIDATED FRUIT COMPANY, Buffalo, N. Y. Filed Apr. 11, 1921.

Juceful

Particular description of goods.—Fresh Fruits of Tropical and Semitropical Origin—Namely, Oranges, Grapefruit, and Pineapples.
Claims use since on or about Feb. 15, 1921.

Ser. No. 146,032. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HORACE G. PRESTON COMPANY, Detroit, Mich. Filed Apr. 11, 1921.

MERCURY CHROME

No claim is made to exclusive use of the word "Chrome" apart from the mark shown on the drawing.
Particular description of goods.—Leather Packings.
Claims use since 1905.

Ser. No. 146,042. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo., and South Fort Smith, Ark. Filed Apr. 11, 1921.

BULLY

Particular description of goods.—Stock Feed or Sweet Feed.
Claims use since 1916.

Ser. No. 146,043. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo. Filed Apr. 11, 1921.

HY-BRED

Particular description of goods.—Stock Feed.
Claims use since 1916.

Ser. No. 146,045. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo., and South Fort Smith, Ark. Filed Apr. 11, 1921.

JERSEY QUEEN

Particular description of goods.—Dairy Feed.
Claims use since August, 1916.

Ser. No. 146,046. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo., and South Fort Smith, Ark. Filed Apr. 11, 1921.

SUGAR LOAF

Particular description of goods.—A Fattening Feed for Stock.
Claims use since August, 1916.

Ser. No. 146,047. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo., and South Fort Smith, Ark. Filed Apr. 11, 1921.

JENNY LINN

Particular description of goods.—Horse and Mule Feed.
Claims use since August, 1916.

Ser. No. 146,051. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WICHITA FLOUR MILLS CO., Wichita, Kans. Filed Apr. 11, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since July, 1914.

Ser. No. 146,052. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WICHITA FLOUR MILLS CO., Wichita, Kans. Filed Apr. 11, 1921.



Particular description of goods.—Wheat-Flour.
Claims use since July, 1914.

Ser. No. 146,055. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WOOLSON SPICE CO., Toledo, Ohio. Filed Apr. 11, 1921.

DEFIANCE

Particular description of goods.—Coffee.
Claims use since Mar. 29, 1921.

Ser. No. 146,076. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALTER T. HALL & COMPANY, Ottumwa, Iowa. Filed Apr. 12, 1921.

TASTER

Particular description of goods.—Candy.
Claims use since December, 1918.

Ser. No. 146,098. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Apr. 12, 1921.

CHERRY BLOSSOM

Particular description of goods.—Cake.
Claims use since Mar. 29, 1921.

Ser. No. 146,115. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EAST COAST FISHERIES PRODUCTS COMPANY, Rockland, Me. Filed Apr. 13, 1921.

Chilpak Brand

Applicant disclaims the word "Brand" apart from the other features of the mark.
Particular description of goods.—Fresh Fish.
Claims use since on or about Mar. 7, 1921.

Ser. No. 146,138. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. C. PETERS MILL CO., Omaha, Nebr. Filed Apr. 13, 1921.

24

Particular description of goods.—Dairy Feed.
Claims use since Apr. 5, 1921.

Ser. No. 146,197. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE ALAMORO MARBLE COMPANY, Alamogordo, N. Mex., and Chicago, Ill. Filed Apr. 15, 1921.

ALAMORO

Particular description of goods.—Marble Not Prepared For Building Purposes.
Claims use since July 9, 1920.

Ser. No. 146,222. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) MASCOT STOVE MANUFACTURING CO., Chattanooga, Tenn. Filed Apr. 15, 1921.

MASCOT

Particular description of goods.—Gas and Coal Ranges.
Claims use since Nov. 1, 1912.

Ser. No. 146,242. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) UNITED SOAP PRODUCTS CO., Rochester, N. Y. Filed Apr. 15, 1921.

PAM

Particular description of goods.—A Preparation for Use When Dissolved in Water in Washing and Cleaning.
Claims use since Mar. 16, 1921.

Ser. No. 146,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex. Filed Apr. 18, 1921.

GARDENIA

Particular description of goods.—Wheat-Flour.
Claims use since December, 1920.

Ser. No. 146,315. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WEST MILL & ELEVATOR CO., Amarillo, Tex. Filed Apr. 18, 1921.

QUALITY

Cross

Particular description of goods.—Wheat-Flour.
Claims use since December, 1920.

Ser. No. 146,323. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAYFLOWER MILLS, Fort Wayne, Ind. Filed Apr. 18, 1921.

Holiday

Particular description of goods.—Wheat-Flour and Self-Rising Wheat-Flour.
Claims use since October, 1915.

Ser. No. 146,324. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM J. MCKAY, Chicago, Ill. Filed Apr. 18, 1921.

FULL OF EGGS

Particular description of goods.—Prepared Poultry Feed.
Claims use since Jan. 15, 1921.

Ser. No. 146,327. (CLASS 37. PAPER AND STATIONERY.) NEENAH PAPER COMPANY, Neenah, Wis. Filed Apr. 18, 1921.

GLACIER BOND

No claim being made to the word "Bond" apart from the mark shown in the drawing.
Particular description of goods.—Ledger, Writing, and Bond Paper for Writing and Printing Purposes.
Claims use since March, 1919.

Ser. No. 146,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WEBER FLOUR MILLS CORPORATION, Salina, Kans. Filed Apr. 18, 1921.

Millennium

Particular description of goods.—Wheat-Flour.
Claims use since Feb. 2, 1919.

Ser. No. 146,348. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WEBER FLOUR MILLS CORPORATION, Salina, Kans. Filed Apr. 18, 1921.

Sterlingfourth

Particular description of goods.—Wheat-Flour.
Claims use since Apr. 21, 1919.

Ser. No. 146,402. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN ANTWERP'S DRUG CORPORATION, INC., Mobile, Ala. Filed Apr. 19, 1921.

ANDY PANDY

Particular description of goods.—Candy.
Claims use since Feb. 24, 1920.

Ser. No. 146,407. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. C. WINEBRENER & SON, INC., Frederick, Md. Filed Apr. 19, 1921.

KO-MO

Particular description of goods.—Coffee.
Claims use since February, 1921.

Ser. No. 146,492. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) MOHAWK PISTON RING CORPORATION, Cleveland, Ohio. Filed Apr. 21, 1921.

MOHAWK SPEEDSTER

No claim is made to the words "Power," "Speed," "Oil Seal," "Speed Seat," "Speedster," and "Cleveland, O." apart from the mark shown in the drawing. No claim is made to the representation of the piston-ring apart from the mark shown in the drawing.
Particular description of goods.—Piston and Packing Rings.
Claims use since June, 1920.

Ser. No. 146,557. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL VEGETABLE OIL COMPANY, Atlanta, Ga. Filed Apr. 22, 1921.

HONEY COMB

Particular description of goods.—A Prime Summer Yellow Refined Deodorized Cotton-Seed Oil.
Claims use since July 1, 1920.

Ser. No. 146,559. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL VEGETABLE OIL COMPANY, Atlanta, Ga. Filed Apr. 22, 1921.

HONEY BEE

Particular description of goods.—A Prime Summer White Refined Deodorized Cotton-Seed Oil.
Claims use since July 1, 1920.

Ser. No. 146,562. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MRS. ALLEN'S KITCHENS, New York, N. Y. Filed Apr. 22, 1921.

Mrs. Allen's

The trade-mark is written in the handwriting of Fleming Duval Brown, a member of the firm.

Particular description of goods.—Pies.

Claims use since Apr. 19, 1921.

Ser. No. 146,604. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRIPOLI IMPORTING CO., New York, N. Y. Filed Apr. 22, 1921.

CAMPAGNA

Consisting of the word "Campagna."

Particular description of goods.—Olive-Oil and Black Olives.

Claims use since Apr. 19, 1921.

Ser. No. 146,625. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CORN PRODUCTS REFINING CO., New York, N. Y. Filed Apr. 23, 1921.

FARANIL

Particular description of goods.—Corn-Starch.

Claims use since Dec. 29, 1920.

Ser. No. 146,627. (CLASS 43. THREAD AND YARN.) CHEROKEE SPINNING COMPANY, Knoxville, Tenn. Filed Apr. 23, 1921.

CHEROKEE

Particular description of goods.—Yarns and Threads.

Claims use since Jan. 1, 1918.

Ser. No. 146,671. (CLASS 17. TOBACCO PRODUCTS.) THOMPSON'S SPA, Boston, Mass. Filed Apr. 23, 1921.

THOMPSON'S SPA

Particular description of goods.—Cigars, Cigarettes, and Pipe and Chewing Tobacco.

Claims use since Sept. 5, 1906.

Ser. No. 146,698. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COLLIS PRODUCTS COMPANY, Clinton, Iowa. Filed Apr. 25, 1921.

BUTTAIRY

Particular description of goods.—Powdered Buttermilk.

Claims use since October, 1920.

Ser. No. 146,707. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INTERNATIONAL MILLING COMPANY, New Prague, Minn. Filed Apr. 25, 1921.

"FROM NOW ON"

Particular description of goods.—Wheat-Flour.

Claims use since Oct. 1, 1920.

Ser. No. 146,727. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MILLER-WEST COMPANY, Dayton, Ohio. Filed Apr. 25, 1921.

Manex

Particular description of goods.—Automobile - Heater Utilizing Explosive-Engine-Exhaust Heat.

Claims use since on or about Jan. 1, 1921.

Ser. No. 146,741. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TATHAM AND COMPANY, Chicago, Ill. Filed Apr. 25, 1921.

TACO

Particular description of goods.—Butter, Eggs, and Poultry.

Claims use since Apr. 1, 1921.

Ser. No. 146,781. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) PENNSYLVANIA RANGE BOILER CO., Philadelphia, Pa. Filed Apr. 26, 1921.

The shading in the drawing indicates color, the central keystone being red, the elliptical band being blue with an inner and outer yellow border, the central horizontal panel being yellow with a green border, and the lower horizontal panel being red with a yellow border. Without waiving any common-law right thereto for the purpose of this registration no claim is made, apart from the mark

shown in the drawing, to the words "Philadelphia Boiler," or to the words "Guaranteed Made of the Best and Most Durable Iron and Tested," or to the words "Will be Replaced if Defective During Guaranteed Time," or to the



words "Standard Guaranteed Five Years," or to the words "Tenth Street Above Norris Philadelphia."

Particular description of goods.—Range-Boilers.

Claims use since June 13, 1910.

Ser. No. 146,784. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOMER'S, Chicago, Ill. Filed Apr. 26, 1921.

Golden Moments

Particular description of goods.—Candy.

Claims use since November, 1919.

Ser. No. 146,825. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) C. M. GREY MFG. CO., East Orange, N. J. Filed Apr. 27, 1921.

·REMOH·

Particular description of goods.—Automobile - Radiator Caps.

Claims use since Feb. 1, 1921.

Ser. No. 146,841. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORTHWESTERN DISTRIBUTING CO., Billings, Mont. Filed Apr. 27, 1921.

SWEET HEART

Particular description of goods.—Bread.

Claims use since Jan. 14, 1919.

Ser. No. 146,907. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. T. GRANT CO., New York, N. Y. Filed Apr. 28, 1921.

Grant's Glory

Particular description of goods.—Hair-Nets.

Claims use since about January, 1920.

Ser. No. 146,944. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ACME BEVERAGE-EXTRACT CO., Chicago, Ill. Filed Apr. 29, 1921.

Retinol's CHERRY-SNAP

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Mar. 1, 1916.

Ser. No. 147,010. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATHAN B. COHEN, Scranton, Pa. Filed Apr. 30, 1921.



"Fitz-U"

Particular description of goods.—Hair-Nets.
Claims use since January, 1917.

Ser. No. 147,029. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LOUIS LEVUSSOVE, New York, N. Y. Filed Apr. 30, 1921.

NOOS-TILE

Particular description of goods.—Human and Animal Hair.
Claims use since Sept. 6, 1920.

Ser. No. 147,160. (CLASS 37. PAPER AND STATIONERY.) THE FORMAN BASSETT COMPANY, Cleveland, Ohio. Filed May 2, 1921.

TELLERS

Particular description of goods.—Safety-Paper.
Claims use since Apr. 28, 1921.

Ser. No. 147,101. (CLASS 47. PAPER AND STATIONERY.) THE FORMAN BASSETT COMPANY, Cleveland, Ohio. Filed May 2, 1921.

FB

Particular description of goods.—Safety-Paper.
Claims use since Apr. 28, 1921.

Ser. No. 147,164. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed May 23, 1921.

CASCADE

Consisting of the word "Cascade."
Particular description of goods.—Shade-Cloth.
Claims use since about Aug. 15, 1915.

Ser. No. 147,182. (CLASS 37. PAPER AND STATIONERY.) THE ALLING AND CORY COMPANY, Pittsburgh, Pa. Filed May 4, 1921.

CHALLENGE

Particular description of goods.—Ledger-Papers.
Claims use since Jan. 1, 1901.

Ser. No. 147,222. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAMS-RICHARDSON COMPANY, LTD., New Orleans, La. Filed May 4, 1921.



CATO

Particular description of goods.—Cotton Piece Goods—Namely, Bleached and Brown Cottons.
Claims use since June 26, 1913.

Ser. No. 147,292. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) IROQUOIS BEVERAGE COMPANY, INC., Buffalo, N. Y. Filed May 6, 1921.



Particular description of goods.—Non-Alcoholic Cereal Beverage Containing Malt, But Less Than One-Half of One Per Cent. of Alcohol, and Sold as a Soft Drink.
Claims use since Oct. 27, 1893.

Ser. No. 147,317. (CLASS 52. KNITTED, NETTED, AND TEXTILE FABRICS.) THE RIEGER COMPANY, New York, N. Y. Filed May 6, 1921.



The picture shown is fanciful.
Particular description of goods.—Hair-Nets.
Claims use since Mar. 15, 1907.

Ser. No. 147,319. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM B. SLEEPER, New York, N. Y. Filed May 6, 1921.

"ZUNI INDIAN CLEANER"

Consisting of the words "Zuni Indian Cleaner," no claim being made to the exclusive use of the word "Cleaner" apart from the mark as shown on the drawing.
Particular description of goods.—Non-Inflammable Cleaning Fluid for Removing Chewing-Gum, Paint, Tar-Stains, and Greases from Carpets, Rugs, Silks, and Clothes of Every Description.
Claims use since June 19, 1919.

Ser. No. 147,441. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed May 9, 1921.

"INAUGURAL"

Particular description of goods.—Broad Silk in the Piece.
Claims use since Feb. 4, 1921.

Ser. No. 147,500. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) E. E. ALLEY, New York, N. Y. Filed May 10, 1921.

Alwyn

Particular description of goods.—Textile Towels.
Claims use since Apr. 19, 1921.

Ser. No. 147,572. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PONTOOSUC WOOLEN MFG. CO., Pittsfield, Mass. Filed May 11, 1921.

Nantucket-Moor
Tweeds

No claim being made to the exclusive use of the word "Tweeds" apart from the mark as shown on the drawing.
Particular description of goods.—Woolen and Worsted Piece Goods.
Claims use since Feb. 25, 1921.

Ser. No. 147,593. (CLASS 38. PRINTS AND PUBLICATIONS.) EARL R. ALLURED, Chicago, Ill. Filed May 12, 1921.

CANDY FACTORY

Particular description of goods.—Monthly Magazines.
Claims use since Mar. 1, 1921.

Ser. No. 147,603. (CLASS 37. PAPER AND STATIONERY.) DUNN PEN COMPANY, INC., New York, N. Y. Filed May 12, 1921.

Majority

Particular description of goods.—Fountain-Pens.
Claims use since Mar. 21, 1921.

Ser. No. 147,604. (CLASS 37. PAPER AND STATIONERY.) DUNN PEN COMPANY, INC., New York, N. Y. Filed May 12, 1921.

Society

Particular description of goods.—Fountain-Pens.
Claims use since Mar. 21, 1921.

Ser. No. 147,605. (CLASS 37. PAPER AND STATIONERY.) DUNN PEN COMPANY, INC., New York, N. Y. Filed May 12, 1921.

Senior

Particular description of goods.—Fountain-Pens.
Claims use since Mar. 21, 1921.

Ser. No. 147,677. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HANSON & VAN WINKLE COMPANY, Newark, N. J. Filed May 13, 1921.

ROYLITE HVW CLEANER

No claim is made to the word "Cleaner" apart from the mark shown in the drawing.
Particular description of goods.—A Preparation for Cleaning Metals.
Claims use since Mar. 14, 1921.

Ser. No. 147,817. (CLASS 33. GLASSWARE.) THE BOYD-MACDONALD COMPANY, New York, N. Y. Filed May 17, 1921.

FLEXO

Particular description of goods.—Watch-Crystals.
Claims use since May 13, 1921.

Ser. No. 147,836. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL INC., New York, N. Y. Filed May 17, 1921.

"AFTER GLOW"

Particular description of goods.—Silk Goods in the Piece.
Claims use since Apr. 1, 1921.

Ser. No. 147,864. (CLASS 43. THREAD AND YARN.) DOMESTIC MILLS COMPANY, INC., Lowell, Mass. Filed May 18, 1921.

NORTH STAR

Particular description of goods.—Silk, Wool, Cotton, Silk and Wool, Tinseled, Linen, and Worsted Yarns and Floss.
Claims use since Jan. 27, 1921.

Ser. No. 147,878. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) H. P. HOOD & SONS, INC., Boston, Mass. Filed May 18, 1921.

NUTFIELD

Particular description of goods.—Carbonated Soft Drinks and Syrups.
Claims use since Mar. 1, 1921.

Ser. No. 147,887. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SIEBERT W. MORGAN, Baltimore, Md. Filed May 18, 1921.



CLEANS 'EM

Applicant disclaims the phrase, "Cleans 'Em" apart from the mark shown.
Particular description of goods.—A Compound for Polishing Glass, Metal, and Like Surfaces.
Claims use since Apr. 29, 1921.

Ser. No. 147,888. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NAAMLOOZE VENNOOTSCHAP EAU DE COLOGNEFABRIEK, VOORHEEN J. C. BOLDOOT, Amsterdam, Netherlands. Filed May 18, 1921.



No claim is made to the words "Buttermilk Soap" apart from the trade-mark shown in the drawing.
Particular description of goods.—Soaps.
Claims use since June 16, 1916.

Ser. No. 147,993. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS ROESSEL & CO., INC., New York, N. Y. Filed May 20, 1921.

"Sinbad"

Particular description of goods.—Crape and Silk in the Piece.
Claims use since Apr. 2, 1918.

Ser. No. 148,044. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WESTERN SIERRA PRODUCTS COMPANY, Pacoima, Calif. Filed May 21, 1921.

KAOMA the cleanser



No claim is made to the words "The Cleanser" appearing on the drawing apart from the mark as shown.
Particular description of goods.—Cleansing and Scouring Preparation.
Claims use since Mar. 1, 1921.

Ser. No. 148,061. (CLASS 19. VEHICLES, NOT INCLUING ENGINES.) DUPLEX SHOCK ABSORBER CORP., Chicago, Ill. Filed May 23, 1921.

DUPLEX

Particular description of goods.—Vehicle Shock-Absorbers.
Claims use since September, 1915.

Ser. No. 148,160. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEW YORK MERCHANDISE COMPANY, New York, N. Y. Filed May 24, 1921.



The picture in the drawing being fanciful.
Particular description of goods.—Hair-Nets.
Claims use since Jan. 1, 1916.

Ser. No. 148,177. (CLASS 37. PAPER AND STATIONERY.) THE THOMSON & DIGGS COMPANY, Sacramento, Calif. Filed May 24, 1921.

THE 20TH CENTURY

Particular description of goods.—Lead-Pencils, Drawing-Pencils, Marking-Crayons, School-Crayons, Carpenters' Pencils, Lumber-Crayons, and Colored Crayons.
Claims use since Jan. 1, 1918.

Ser. No. 148,248. (CLASS 37. PAPER AND STATIONERY.) STEVENS & THOMPSON PAPER COMPANY, Greenwich, N. Y. Filed May 25, 1921.

HomeNeve

Particular description of goods.—Paper Towels.
Claims use since Feb. 23, 1921.

Ser. No. 148,250. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED BUSINESS SERVICE COMPANY, Wellesley and Wellesley Hills, Mass., and Washington, D. C. Filed May 25, 1921.

United Business Service

Particular description of goods.—Printed Publications, Magazines, and Periodicals Issued Regularly and for Supplements Thereto.
Claims use since Apr. 22, 1921.

Ser. No. 148,341. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL, INC., New York, N. Y. Filed May 27, 1921.

THOROBRED

Particular description of goods.—Broad Silks in the Piece.
Claims use since Mar. 1, 1921.

Ser. No. 148,368. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE BORGFELDT & CO., New York, N. Y. Filed May 28, 1921.



Particular description of goods.—Textile Rugs.
Claims use since May 20, 1921.

Ser. No. 148,377. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DELGADO MILLS, Wilmington, N. C. Filed May 28, 1921.

LORNA DOONE

Consisting of the words "Lorna Doone."
Particular description of goods.—Cotton Piece Goods—viz., Ginghams.
Claims use since Mar. 1, 1921.

Ser. No. 148,438. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GOLDING FABRICS CORPORATION, New York, N. Y. Filed May 31, 1921.

SIL-U-ETTE

Consisting of the word "Sil-u-ette."
Particular description of goods.—Silk Piece Goods.
Claims use since Apr. 15, 1921.

Ser. No. 148,442. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JOHNSON & BRADWELL, Tacoma, Wash. Filed May 31, 1921.

J & B

Particular description of goods.—Stabilizers for Vehicle Steering Mechanisms.
Claims use since Apr. 1, 1921.

Ser. No. 148,479. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON BROS. & CO., New York, N. Y. Filed June 1, 1921.

PLAYGROUND CLOTH

Consisting of the words "Playground Cloth," no claim being made to the exclusive use of the word "Cloth" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since about September, 1920.

Ser. No. 148,580. (CLASS 38. PRINTS AND PUBLICATIONS.) CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif. Filed June 3, 1921.

Cottonyarns

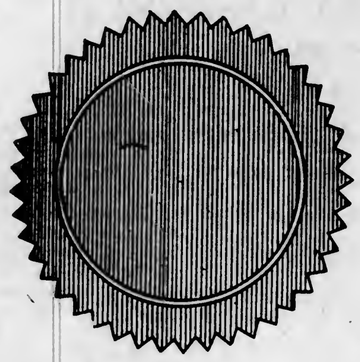
Particular description of goods.—Monthly Publication.
Claims use since June 30, 1917.

Ser. No. 148,595. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HAIR NET IMPORTING COMPANY, INC., New York, N. Y. Filed June 3, 1921.

The Cozette

Particular description of goods.—Hair-Nets.
Claims use since 1914.

Ser. No. 148,613. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) NO-LEAK-O PISTON RING COMPANY, Baltimore, Md. Filed June 3, 1921.



The seal being shaded to indicate red coloring.
Particular description of goods.—Piston-Rings.
Claims use since May 4, 1921.

Ser. No. 148,620. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE SALT'S TEXTILE MANUFACTURING CO., Bridgeport, Conn., and New York, N. Y. Filed June 3, 1921.

KHIVA-FUR

Consists of the word "Khiva-Fur." No claim is made to the exclusive use of the word "Fur" except in connection with the mark shown.
Particular description of goods.—Pile Fabrics in the Piece.
Claims use since Jan. 18, 1921.

Ser. No. 148,697. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. BIANCHINI FÉRIER, Lyon, France. Filed June 6, 1921.

PHRYNÉ

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China-Grass.
Claims use since Feb. 16, 1909.

Ser. No. 148,698. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS. BIANCHINI FÉRIER, Lyon, France. Filed June 6, 1921.

CRAQUELINE

Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China-Grass.
Claims use since June 22, 1920.

Ser. No. 148,742. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOSEPH KRIEG-FINK CO., INC., Jersey City, N. J. Filed June 6, 1921.



The lining on the diagonal bar in the drawing represents the color red. The other shading is not for color.
Particular description of goods.—A Non-Intoxicating, Maltless, Non-Cereal Beverage Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume.
Claims use since June 1, 1920.

Series No. 148,999. (CLASS 33. GLASSWARE.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed June 11, 1921.

TROJAN

Particular description of goods.—Glass Columns, Glass Bases, Glass Supports, Glass Globes, Glass Shades, Glass Reflectors, and Glass Bowls for Illuminating Purposes.
Claims use since March, 1920.

Ser. No. 149,000. (CLASS 33. GLASSWARE.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed June 11, 1921.

KELDON

Particular description of goods.—Glass Columns, Glass Bases, Glass Supports, Glass Globes, Glass Shades, Glass Reflectors, and Glass Bowls for Illuminating Purposes.
Claims use since November, 1920.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 19, 1921.

144,677. TEA, COFFEE, COCOA, SPICES. SAUL D. ABRAMS, Boston, Mass.
Filed February 20, 1920. Serial No. 128,638. PUBLISHED APRIL 5, 1921.

144,678. INCANDESCENT LAMPS. ALPHA LABORATORIES INC., New York, N. Y.
Filed January 12, 1920. Serial No. 127,024. PUBLISHED APRIL 12, 1921.

144,679. ARTIFICIAL-PUMICE BRICKS OR RUBBING-STONES. ALPHA-LUX COMPANY, INC., New York, N. Y.
Filed February 1, 1921. Serial No. 143,421. PUBLISHED MARCH 20, 1921.

144,680. MONTHLY ART-MAGAZINE. THE AMERICAN ART STUDENT PUBLISHING CO., New York, N. Y.
Filed January 17, 1921. Serial No. 142,318. PUBLISHED APRIL 5, 1921.

144,681. TWINE AND FIBER CORD. AMERICAN NET & TWINE CO., East Cambridge, Mass.
Filed January 14, 1920. Serial No. 127,106. PUBLISHED APRIL 5, 1921.

144,682. POPCORN IN ITS NATURAL STATE. AMERICAN POP CORN COMPANY, Sioux City and Schaller, Iowa.
Filed February 10, 1919. Serial No. 115,710. PUBLISHED APRIL 12, 1921.

144,683. POPCORN IN ITS NATURAL STATE. AMERICAN POP CORN COMPANY, Sioux City and Schaller, Iowa.
Filed February 10, 1919. Serial No. 115,713. PUBLISHED APRIL 12, 1921.

144,684. PLAIN AND CRAPE TISSUE-PAPERS, PAPER NAPKINS, AND WAXED PAPERS. AMERICAN TISSUE MILLS, Holyoke, Mass.
Filed December 17, 1920. Serial No. 141,207. PUBLISHED MARCH 22, 1921.

144,685. CERTAIN NAMED ELECTRIC LAMPS. ANDERSON ELECTRIC & EQUIPMENT CO., Chicago, Ill.
Filed June 12, 1920. Serial No. 133,601. PUBLISHED MAY 3, 1921.

144,686. WOOLEN PIECE GOODS. ANGORA SPECIALTY CO. INC., New York and Brooklyn, N. Y.
Filed December 18, 1920. Serial No. 141,248. PUBLISHED APRIL 5, 1921.

144,687. PERIODICAL BEING PUBLISHED SEMI-ANNUALLY. APPLE HAT COMPANY, St. Louis, Mo.
Filed January 4, 1921. Serial No. 141,822. PUBLISHED APRIL 5, 1921.

144,688. PAPER SUITABLE FOR USE IN PRINTING AND WRITING. ASHBY PRINTING COMPANY, Erie, Pa.
Filed October 28, 1920. Serial No. 138,891. PUBLISHED MARCH 22, 1921.

144,689. CERTAIN ARTICLES OF CLOTHING. THE ASSOCIATED CLOTHIERS, Sparta, Ill.
Filed November 15, 1920. Serial No. 139,660. PUBLISHED APRIL 12, 1921.

144,690. MOTION-PICTURE FILMS. ASSOCIATED FIRST NATIONAL PICTURES INC., New York, N. Y.
Filed November 19, 1920. Serial No. 139,838. PUBLISHED MARCH 29, 1921.

144,691. NON-FERROUS ALLOYS FOR CERTAIN MANUFACTURES. ATERITE CO. INC., New York, N. Y.
Filed December 2, 1920. Serial No. 140,512. PUBLISHED MARCH 29, 1921.

144,692. CHOCOLATES. D. AUERBACH & SONS, New York, N. Y.
Filed January 7, 1921. Serial No. 141,936. PUBLISHED APRIL 5, 1921.

144,693. MEN'S SILK SHIRTS. M. AUERBACH & SONS, New York, N. Y.
Filed November 20, 1920. Serial No. 139,876. PUBLISHED APRIL 5, 1921.

144,694. CERTAIN NAMED PIECE GOODS AND TEXTILE FABRICS. B. F. BAILEY AND CO., New York, N. Y.
Filed August 20, 1920. Serial No. 136,286. PUBLISHED APRIL 5, 1921.

144,695. WATERPROOF ROOFING SHEETS AND SHINGLES. THE BARBER ASPHALT PAVING COMPANY, Philadelphia, Pa.
Filed December 19, 1919. Serial No. 126,240. PUBLISHED APRIL 12, 1921.

144,696. SILK AND SILK-MIXTURE FABRICS IN THE PIECE. WECHSLER BARBER SILK CO. INC., New York, N. Y.
Filed December 10, 1920. Serial No. 140,904. PUBLISHED APRIL 12, 1921.

144,697. METAL-POLISH. G. E. BENNETT, San Francisco, Calif.
Filed February 2, 1921. Serial No. 143,080. PUBLISHED MARCH 29, 1921.

144,698. MEN'S AND BOYS' SHIRTS—NAMELY, DRESS, NEGLIGÉE AND WORK SHIRTS. HARRY BERGER, New York, N. Y.
Filed October 27, 1920. Serial No. 138,834. PUBLISHED APRIL 12, 1921.

144,699. ELECTRICAL HOT-WATER AND STEAM HEATERS AND PARTS THEREFOR. PIERRE J. H. BERNARD, Montreal, Quebec, Canada.
Filed December 9, 1920. Serial No. 140,827. PUBLISHED APRIL 12, 1921.

144,700. PEANUT-BUTTER. JACQUES BERNSTAMM, Atlanta, Ga.
Filed January 22, 1920. Serial No. 127,463. PUBLISHED APRIL 5, 1921.

144,701. CERTAIN NAMED SOFT DRINKS. J. BERTHIAUME & CO., Spencer, Mass.
Filed December 30, 1920. Serial No. 141,664. PUBLISHED APRIL 5, 1921.

144,702. PIECE GOODS OF SILK, WOOL, LINEN, COTTON, AND CHINA-GRASS. BIANCHINI, FÉAIRE, Lyon, France.
Filed August 17, 1920. Serial No. 136,192. PUBLISHED APRIL 5, 1921.

144,703. PREPARATION FOR DESTROYING PARASITES AND FOR TREATING DISEASES IN ANIMALS AND PLANTS. THOMAS BIGG LIMITED, London, England.
Filed October 26, 1920. Serial No. 138,804. PUBLISHED MARCH 29, 1921.

144,704. FELT BOOTEES AND SLIPPERS. GEORGE BORGFELDT & CO., New York, N. Y.
Filed November 23, 1920. Serial No. 140,007. PUBLISHED APRIL 5, 1921.

144,705. COTTON PILE CLOTH IN THE PIECE. JOHN S. BOYD COMPANY, INC., Williamstown, Mass.
Filed September 30, 1920. Serial No. 137,757. PUBLISHED APRIL 12, 1921.

144,706. MIT MADE OF FABRIC OR STRANDS OF FLEXIBLE MATERIAL AND METAL USED FOR CLEANING AND SCRAPING. JOS. BRANDT & BRO., New York, N. Y.
Filed August 12, 1920. Serial No. 136,019. PUBLISHED APRIL 12, 1921.

144,707. SHOES OF LEATHER AND OF CLOTH OR CANVAS. BRAUER BROS. SHOE COMPANY, St. Louis, Mo.
Filed August 4, 1919. Serial No. 121,231. PUBLISHED APRIL 5, 1921.

144,708. ICE-CREAM. BREYER ICE CREAM COMPANY, Philadelphia, Pa.
Filed December 10, 1920. Serial No. 140,856. PUBLISHED APRIL 5, 1921.

144,709. WOOLEN PIECE GOODS AND WOOLEN CLOTHS. THE BRUNER WOOLEN COMPANY, INC., New York, N. Y.
Filed January 8, 1920. Serial No. 126,922. PUBLISHED APRIL 5, 1921.

144,710. CERTAIN NAMED ELECTRIC DEVICES. THE BURNETT-LARSH MANUFACTURING COMPANY, Dayton, Ohio.
Filed January 14, 1920. Serial No. 127,111. PUBLISHED JUNE 1, 1920.

144,711. CANDY. CALIFORNIA CHOCOLATE SHOPS, INC., Los Angeles, Calif.
Filed December 7, 1920. Serial No. 140,708. PUBLISHED APRIL 5, 1921.

144,712. MARKET-BASKETS ON WHEELS. MARY B. CAPEN, Detroit, Mich.
Filed October 25, 1920. Serial No. 138,757. PUBLISHED APRIL 12, 1921.

144,713. HOSIERY. CARLTON TRADING COMPANY, New York, N. Y.
Filed August 13, 1920. Serial No. 136,069. PUBLISHED APRIL 5, 1921.

144,714. PORK, AND PARTICULARLY BACON OR STRIPS OF PORK IN BAGS. CASE PROVISION AND SUPPLY CO., Trenton, N. J.
Filed June 28, 1920. Serial No. 134,056. PUBLISHED APRIL 5, 1921.

144,715. INDICATORS FOR SHOWING STATE OF CHARGE OF STORAGE BATTERIES. CELLOKAY MANUFACTURING COMPANY, New York, N. Y.
Filed December 4, 1920. Serial No. 140,585. PUBLISHED MARCH 29, 1921.

144,716. AUTOMOBILES. CHAMPION MOTORS CORPORATION, Philadelphia, Pa.
Filed September 18, 1920. Serial No. 137,308. PUBLISHED APRIL 5, 1921.

144,717. POCKET-COMBS, FINE COMBS, BARBERS' COMBS, AND MEN'S AND WOMEN'S DRESSING-COMBS. CHARLES ARLINGTON BARNES, Leominster, Mass.
Filed October 12, 1920. Serial No. 138,205. PUBLISHED APRIL 5, 1921.

144,718. CANDY. CHARTER CHOCOLATE COMPANY, Boston, Mass.
Filed December 28, 1920. Serial No. 141,555. PUBLISHED APRIL 5, 1921.

144,719. MONTHLY PUBLICATION. CHICAGO ATHLETIC ASSOCIATION, Chicago, Ill.
Filed November 4, 1920. Serial No. 139,150. PUBLISHED APRIL 5, 1921.

144,720. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed December 22, 1920. Serial No. 141,415. PUBLISHED APRIL 12, 1921.

144,721. NATURAL SPRING-WATER AND CERTAIN NAMED SOFT DRINKS. CHIPPEWA SPRINGS CORPORATION, Minneapolis, Minn.
Filed January 12, 1920. Serial No. 127,032. PUBLISHED APRIL 5, 1921.

144,722. BEVERAGE PREPARED OR COMPOUNDED FROM NATURAL SPRING-WATER AND COLA. CHIPPEWA SPRINGS CORPORATION, Minneapolis, Minn.
Filed November 27, 1920. Serial No. 140,251. PUBLISHED MARCH 29, 1921.

144,723. TOILET-PAPER. WILLIAM A. COLE PAPER COMPANY, Putney, Vt.
Filed December 7, 1920. Serial No. 140,709. PUBLISHED MARCH 22, 1921.

144,724. LIQUID AND POWDERED PERFUMES. COLGATE & COMPANY, Jersey City, N. J.
Filed October 29, 1920. Serial No. 138,944. PUBLISHED MARCH 29, 1921.

144,725. BOYS' SUITS. COHEN, ENDEL & CO., New York, N. Y.
Filed December 2, 1920. Serial No. 140,521. PUBLISHED APRIL 5, 1921.

144,726. PUBLICATIONS ISSUED MONTHLY. A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed January 21, 1921. Serial No. 142,555. PUBLISHED APRIL 5, 1921.

144,727. TIRE-REPAIR COMPOSITION. GEORGE W. COLLINS, Wilmington, Del.
Filed November 19, 1920. Serial No. 139,850. PUBLISHED APRIL 5, 1921.

144,728. SHOE-POLISHES. COLUMBUS POLISH MFG. CO., INC., New York, N. Y.
Filed May 14, 1920. Serial No. 132,429. PUBLISHED APRIL 12, 1921.

144,729. FURNITURE-POLISH. COLUMBIA GRAFHOPHONE COMPANY, New York, N. Y.
Filed August 10, 1920. Serial No. 135,962. PUBLISHED APRIL 5, 1921.

144,730. FURNITURE-POLISH. COLUMBIA GRAFHOPHONE COMPANY, New York, N. Y.
Filed August 10, 1920. Serial No. 135,963. PUBLISHED APRIL 5, 1921.

144,731. FURNITURE-POLISH. COLUMBIA GRAFHOPHONE COMPANY, New York, N. Y.
Filed August 10, 1920. Serial No. 135,964. PUBLISHED APRIL 5, 1921.

144,732. WHEAT-FLOUR. COMMERCIAL UNION OF AMERICA, INCORPORATED, New York, N. Y.
Filed November 12, 1920. Serial No. 139,568. PUBLISHED APRIL 12, 1921.

144,733. COFFEE. COMMONWEALTH COFFEE COMPANY, New York, N. Y.
Filed February 3, 1920. Serial No. 127,898. PUBLISHED APRIL 5, 1921.

144,734. METALLIC SHEETS FOR MAKING MOLDS OR MATRICES. THE CONLEY FOIL COMPANY, New York, N. Y.
Filed April 4, 1921. Serial No. 145,672.

144,735. ROOT-BEER AND GINGER-ALE. JAMES R. COUNCIL, Norfolk, Va.
Filed January 12, 1921. Serial No. 142,133. PUBLISHED APRIL 5, 1921.

144,736. CANNED FRUITS AND VEGETABLES. W. N. CLARK CO., Rochester, N. Y.
Filed November 5, 1920. Serial No. 139,196. PUBLISHED APRIL 5, 1921.

144,737. SOFT-DRINK BEVERAGE. DANCIGER BROTHERS, Kansas City, Mo.
Filed April 19, 1920. Serial No. 131,315. PUBLISHED APRIL 12, 1921.

144,738. BROAD SILKS, SATINS, COTTON, AND LINEN PIECE GOODS. CHARLES R. DE BEVOISE CO., Newark, N. J.
Filed November 27, 1920. Serial No. 140,254. PUBLISHED APRIL 5, 1921.

144,739. CORSETS, CORSET-COVERS, BRASSIÈRES, AND WAISTS. CHARLES R. DE BEVOISE CO., Newark, N. J.
Filed November 27, 1920. Serial No. 140,255. PUBLISHED APRIL 5, 1921.

144,740. RUBBER TIRES. THE DENMAN-MYERS CORD TIRE COMPANY, Cleveland, Ohio.
Filed November 6, 1920. Serial No. 139,254. PUBLISHED MARCH 29, 1921.

144,741. CANDY—NAMELY, CHOCOLATE-BARS. DILLING & COMPANY, Indianapolis, Ind.
Filed December 24, 1920. Serial No. 141,484. PUBLISHED APRIL 5, 1921.

144,742. CHOCOLATE CANDY. DILLING & COMPANY, Indianapolis, Ind.
Filed December 24, 1920. Serial No. 141,485. PUBLISHED MARCH 29, 1921.

144,743. CANDY—NAMELY, CHOCOLATE-BARS. DILLING & COMPANY, Indianapolis, Ind.
Filed December 24, 1920. Serial No. 141,486. PUBLISHED APRIL 5, 1921.

144,744. CANDY. DILLING & COMPANY, Indianapolis, Ind.
Filed December 24, 1920. Serial No. 141,487. PUBLISHED APRIL 5, 1921.

144,745. CANDY—NAMELY, CHOCOLATE-BARS. DILLING & COMPANY, Indianapolis, Ind.
Filed December 24, 1920. Serial No. 141,488. PUBLISHED APRIL 5, 1921.

144,746. ICE-CREAM. DIXIE ICE CREAM COMPANY, Lexington, Ky.
Filed July 21, 1920. Serial No. 135,235. PUBLISHED APRIL 12, 1921.

144,747. CERTAIN LIGHT-METAL ALLOYS AND CASTINGS AND FORGINGS OF SAME. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed November 19, 1920. Serial No. 139,852. PUBLISHED MARCH 29, 1921.

144,748. QUILTS, SHEETS, AND PILLOW-CASES. THOMAS B. DRAPER, Detroit, Mich.
Filed September 7, 1920. Serial No. 136,878. PUBLISHED APRIL 12, 1921.

144,749. GUM USED IN THE MANUFACTURE OF CHEWING-GUM. L. A. DREYFUS CO., New York, N. Y.
Filed January 6, 1921. Serial No. 141,900. PUBLISHED APRIL 5, 1921.

144,750. ELECTRIC FLASH-LAMPS. DYNO ELECTRIC APPLIANCE CORPORATION, New York, N. Y.
Filed December 13, 1920. Serial No. 140,992. PUBLISHED MARCH 22, 1921.

144,751. HOSIERY OF COTTON AND SILK FOR MEN AND LADIES. ISAAC C. EBERLY, Reading, Pa.
Filed October 20, 1920. Serial No. 138,553. PUBLISHED APRIL 12, 1921.

144,752. YEAST. ECONOMIC MATERIALS CO., Chicago, Ill.
Filed October 20, 1920. Serial No. 138,554. PUBLISHED APRIL 5, 1921.

144,753. OLIVES, CATSUP, SALAD-DRESSING, CHILLI, MUSTARD, PEANUT-BUTTER, FRUIT PRESERVES, HONEY, AND MAPLE-SYRUP. THE WILLIAM EDWARDS COMPANY, Cleveland, Ohio.
Filed December 16, 1920. Serial No. 141,164. PUBLISHED APRIL 12, 1921.

144,754. SHEETS AND SLATES MADE OF ASBESTOS AND CEMENT AND USED FOR BUILDING PURPOSES. N. V. EERSTE NEDERLANDSCHE FABRIEK VAN ASBEST-CEMENTPLATEN, Amsterdam, Holland.
Filed January 23, 1920. Serial No. 127,498. PUBLISHED APRIL 12, 1921.

144,755. ELECTRIC HEATING APPARATUS FOR HEATING FLUIDS. ELECTRIC HEAT UNIT CO., St. Louis, Mo.
Filed November 3, 1920. Serial No. 139,113. PUBLISHED APRIL 5, 1921.

144,756. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND MALTLESS SYRUPS AND EXTRACTS USED IN THE MANUFACTURE OF SAID BEVERAGES. ESSANTEE COMPANY, St. Louis, Mo.
Filed May 17, 1920. Serial No. 132,519. PUBLISHED APRIL 5, 1921.

144,757. SHOE-DRESSING, CREAM, AND POLISHING-PASTE. FALCON MANUFACTURING CO., Brooklyn, N. Y.
Filed September 8, 1920. Serial No. 136,941. PUBLISHED DECEMBER 21, 1920.

144,758. PORTABLE ELECTRIC LAMPS. SIMON W. FARBER, Brooklyn, N. Y.
Filed April 15, 1919. Serial No. 117,489. PUBLISHED JULY 1, 1919.

144,759. CHOCOLATES OF ALL KINDS, CRUDE CHOCOLATE, CHOCOLATE OR COCOA POWDER, CONFECTIONERY, BONBONS OF ALL SORTS, CAKES, PASTRIES, AND BISCUITS. FERNAND PLUMENAIL, Paris, France.
Filed June 9, 1920. Serial No. 133,492. PUBLISHED APRIL 5, 1921.

144,760. A MAGAZINE PUBLISHED MONTHLY. FIDELITY NATIONAL BANK & TRUST CO., Kansas City, Mo.
Filed February 14, 1921. Serial No. 143,553. PUBLISHED APRIL 5, 1921.

144,761. PERIODICALLY-ISSUED BOOKLETS. WM. FISCHMAN, INC., New York, N. Y.
Filed August 30, 1920. Serial No. 136,623. PUBLISHED APRIL 5, 1921.

144,762. SOAP FLAKES, SOAP CHIPS, AND SOAP. FITZPATRICK BROS., Chicago, Ill.
Filed January 31, 1921. Serial No. 142,969. PUBLISHED MARCH 29, 1921.

144,763. LADIES' WEARING-APPAREL — NAMELY, BLOUSES, GOWNS, SUITS, COATS, CAPES, AND LINGERIE. A. H. FLANDERS COMPANY, Chicago, Ill.
Filed June 18, 1920. Serial No. 133,873. PUBLISHED APRIL 12, 1921.

144,764. BOOTS AND SHOES MADE OF LEATHER. THE FLORSHEIM SHOE COMPANY, Chicago, Ill.
Filed December 18, 1920. Serial No. 141,261. PUBLISHED APRIL 12, 1921.

144,765. WHEAT-FLOUR. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed January 11, 1921. Serial No. 142,062. PUBLISHED MARCH 29, 1921.

144,766. A PERIODICAL HOUSE ORGAN PUBLISHED SEMIMONTHLY. FORD MOTOR COMPANY, Highland Park, Mich.
Filed December 9, 1920. Serial No. 140,830. PUBLISHED APRIL 5, 1921.

144,767. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 29, 1920. Serial No. 141,631. PUBLISHED APRIL 5, 1921.

144,768. CHAINS FOR PERSONAL ADORNMENT WHICH ARE MADE OF OR PLATED WITH PRECIOUS METAL. FORSTNER CHAIN CORPORATION, Irvington, N. J.
Filed February 2, 1921. Serial No. 143,091. PUBLISHED MARCH 29, 1921.

144,769. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN CO., Passaic, N. J.
Filed October 12, 1920. Serial No. 138,216. PUBLISHED MARCH 1, 1921.

144,770. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1920. Serial No. 140,934. PUBLISHED APRIL 12, 1921.

144,771. FINISHED MARBLE AND CUT STONE. THE GEORGIA MARBLE COMPANY, Tate, Ga.
Filed November 24, 1920. Serial No. 140,107. PUBLISHED APRIL 5, 1921.

144,772. FINISHED MARBLE AND CUT STONE. THE GEORGIA MARBLE COMPANY, Tate, Ga.
Filed November 24, 1920. Serial No. 140,109. PUBLISHED APRIL 5, 1921.

144,773. TOOTHBRUSHES. GEO. R. GIBSON CO., New York, N. Y.
Filed August 26, 1919. Serial No. 122,012. PUBLISHED MARCH 30, 1920.

144,774. TOOTHBRUSHES. GEO. R. GIBSON CO., New York, N. Y.
Filed August 26, 1919. Serial No. 122,013. PUBLISHED MARCH 30, 1920.

144,775. A POWDER COMPOUND SOLUBLE IN WATER, IN ITSELF NON-SAPONACEOUS, USED IN SOLUTION AS A GENERAL CLEANSER. GLOBE CLEANSING PRODUCTS CORPORATION, Paterson, N. J.
Filed December 30, 1920. Serial No. 141,677. PUBLISHED APRIL 5, 1921.

144,776. VEGETABLE COMPOUND FOR SHORTENING AND COOKING PURPOSES. GLOBE COTTON OIL MILLS, Los Angeles, Calif.
Filed December 21, 1920. Serial No. 141,368. PUBLISHED APRIL 5, 1921.

144,777. DRY, PASTE, AND READY-MIXED PAINTS FOR GENERAL USE. THE GOHEEN CORPORATION, Wilmington, Del., and Warren, Ohio.
Filed March 17, 1920. Serial No. 129,836. PUBLISHED APRIL 5, 1921.

144,778. COFFEE. GOLD CROSS COFFEE COMPANY, Cleveland, Ohio.
Filed November 13, 1920. Serial No. 139,651. PUBLISHED MARCH 8, 1921.

144,779. ROOT-BEER. GOLDEN GRAIN JUICE CO., Minneapolis, Minn.
Filed September 23, 1920. Serial No. 137,523. PUBLISHED APRIL 12, 1921.

144,780. A COMPOUND IN LIQUID FORM FOR CLEANING ENAMELED WOODWORK, FURNITURE, AND PORCELAIN PLUMBING-FIXTURES. MILTON M. GOLDSTEIN, Minneapolis, Minn.
Filed January 8, 1921. Serial No. 141,974. PUBLISHED MARCH 29, 1921.

144,781. HOSE MADE OF RUBBER REINFORCED WITH FABRIC. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed January 31, 1921. Serial No. 142,973. PUBLISHED MARCH 29, 1921.

144,782. CERTAIN NAMED TIRES, TUBES, PATCHES, SLEEVES, AND RELINERS. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed January 31, 1921. Serial No. 142,974. PUBLISHED MARCH 29, 1921.

144,783. MEN'S AND YOUNG MEN'S OUTER CLOTHES—VIZ., TROUSERS, VESTS, COATS, AND OVERCOATS. MARTIN GORDON, New York, N. Y.
Filed October 5, 1920. Serial No. 137,937. PUBLISHED APRIL 12, 1921.

144,784. FRESH AND CURED FISH, CLAM-CHOWDER, FISH-MEAL, AND OILS. GORTON-PEW FISHERIES COMPANY, Gloucester, Mass.
Filed June 9, 1920. Serial No. 133,465. PUBLISHED APRIL 12, 1921.

144,785. GRAPE-JUICE. GRAPE OLA PRODUCTS CORPORATION, New York, N. Y.
Filed December 23, 1919. Serial No. 126,374. PUBLISHED APRIL 12, 1921.

144,786. NON-ALCOHOLIC CORDIALS. GRAY-JUERGENS CO., Cincinnati, Ohio.
Filed December 28, 1918. Serial No. 114,853. PUBLISHED APRIL 5, 1921.

144,787. SPARK-PLUGS. THE GRIFFIN MFG. CO., Boston, Mass.
Filed January 15, 1920. Serial No. 127,179. PUBLISHED APRIL 12, 1921.

144,788. CERTAIN ARTICLES OF CLOTHING FOR LADIES AND MISSES AND JUNIORS. I. GROSSMAN & SON, New York, N. Y.
Filed December 14, 1920. Serial No. 141,067. PUBLISHED APRIL 12, 1921.

144,789. METAL DISHES FOR DISSEMINATING VAPORS FOR PURIFYING THE AIR IN ROOMS. LEO GUDEMAN, New York, N. Y.
Filed December 9, 1920. Serial No. 140,833. PUBLISHED MARCH 29, 1921.

144,790. IMITATION PEARLS. M. GUGENHEIM, INC., New York, N. Y.
Filed January 14, 1921. Serial No. 142,253. PUBLISHED MARCH 29, 1921.

144,791. WATCHES, WATCHCASES, AND WATCH-MOVEMENTS. B. GUTTER & SONS, New York, N. Y.
Filed November 11, 1920. Serial No. 139,525. PUBLISHED APRIL 12, 1921.

144,792. PEARLS. SIGSBEE GUTTER, New York, N. Y.
Filed November 11, 1920. Serial No. 139,531. PUBLISHED APRIL 12, 1921.

144,793. RUST-SOLVENT OF A LUBRICANT NATURE AND A LUBRICANT. HALSTEAD SPECIALTIES COMPANY, San Francisco, Calif.
Filed July 31, 1920. Serial No. 135,644. PUBLISHED APRIL 5, 1921.

144,794. BUTTONS. C. LUDWIG HEIMBRUCH, New York, N. Y.
Filed December 7, 1920. Serial No. 140,722. PUBLISHED APRIL 5, 1921.

144,795. OLIVE-OIL. PALLARÈS HERMANOS, Cabra, Spain.
Filed December 3, 1917. Serial No. 107,724. PUBLISHED APRIL 12, 1921.

144,796. A MEDICINE FOR THE TREATMENT OF COUGHS AND COLDS. THE HOLLANDER-KOSHLAND CO., Baltimore, Md.
Filed October 26, 1920. Serial No. 138,810. PUBLISHED MARCH 29, 1921.

144,797. RUBBER STAMPS. HORDER'S, INCORPORATED, Chicago, Ill.
Filed January 3, 1921. Serial No. 141,780. PUBLISHED MARCH 22, 1921.

144,798. KNIT UNDERWEAR FOR WOMEN IN VESTS AND UNION-SUITS. THE J. L. HUDSON CO., Detroit, Mich.
Filed November 8, 1920. Serial No. 139,355. PUBLISHED APRIL 12, 1921.

144,799. DRIED FRUITS, FLOURS—NAMELY, WHEAT-FLOUR, RYE-FLOUR, CORN-FLOUR, POTATO-FLOUR, TAPIOCA-FLOUR—ROLLED OATS, OLEIN. HOLLAND FOOD CORPORATION, New York, N. Y.
Filed July 28, 1920. Serial No. 135,476. PUBLISHED APRIL 5, 1921.

144,800. GRANULATED SOAP. JOHN A. HUNNEWELL, Lowell, Mass.
Filed January 14, 1921. Serial No. 142,254. PUBLISHED MARCH 29, 1921.

144,801. CERTAIN NAMED ELECTRICAL APPARATUS. HUNTINGTON & GUERRY INC., Greenville, S. C.
Filed December 6, 1920. Serial No. 140,649. PUBLISHED APRIL 5, 1921.

144,802. CHOCOLATE COATING. IDEAL COCOA & CHOCOLATE CO., Lititz, Pa., and New York, N. Y.
Filed December 27, 1919. Serial No. 126,525. PUBLISHED APRIL 12, 1921.

144,803. CARBON-PAPER. ILLINOIS CARBON & RIBBON CO. INC., Chicago, Ill.
Filed November 20, 1920. Serial No. 139,891. PUBLISHED APRIL 5, 1921.

144,804. WATCH-MOVEMENTS. ILLINOIS WATCH CASE COMPANY, Elgin, Ill.
Filed December 6, 1920. Serial No. 140,650. PUBLISHED APRIL 5, 1921.

144,805. EGG-WHITE PREPARATION IN POWDERED FORM USED BY BAKERS AND CONFECTIONERS. THE INTERNATIONAL COMPANY, Baltimore, Md.
Filed April 10, 1920. Serial No. 130,963. PUBLISHED APRIL 12, 1921.

144,806. EGG-WHITE PREPARATION IN POWDERED FORM USED BY BAKERS AND CONFECTIONERS. THE INTERNATIONAL COMPANY, Baltimore, Md.
Filed February 4, 1920. Serial No. 127,967. PUBLISHED APRIL 12, 1921.

144,807. CORK COMPOSITION USED AS A COVERING FOR CERTAIN NAMED ARTICLES, BUNGS, AND MATS. INTERNATIONAL CORK COMPANY, Brooklyn, N. Y.
Filed December 16, 1919. Serial No. 126,128. PUBLISHED APRIL 12, 1921.

144,808. CERTAIN NAMED ELECTRICAL APPARATUS. INTERNATIONAL DEVICES COMPANY, New York, N. Y.
Filed September 1, 1920. Serial No. 136,712. PUBLISHED APRIL 5, 1921.

144,809. SILVER-PLATED FLAT-WARE—NAMELY, FORKS, SPOONS, LADLES, AND KNIVES. INTERNATIONAL SILVER COMPANY, Meriden and Waterbury, Conn.
Filed January 17, 1921. Serial No. 142,338. PUBLISHED MARCH 29, 1921.

144,810. WHEAT-FLOUR. INTERPROVINCIAL FLOUR MILLS LTD., Saskatoon, Saskatchewan, Canada.
Filed May 14, 1920. Serial No. 132,437. PUBLISHED APRIL 5, 1921.

144,811. WHEAT-FLOUR. INTERPROVINCIAL FLOUR MILLS LTD., Saskatoon, Saskatchewan, Canada.
Filed May 3, 1920. Serial No. 131,971. PUBLISHED APRIL 5, 1921.

144,812. WASHING-TABLETS. MARTIN IVERSON, Minneapolis, Minn.
Filed May 1, 1919. Serial No. 118,050. PUBLISHED APRIL 5, 1921.

144,813. SILKS IN THE PIECE. JANSEN & PRETZFELD, INC., New York, N. Y.
Filed November 18, 1920. Serial No. 139,803. PUBLISHED MARCH 15, 1921.

144,814. EXTRACT OF MEAT. JARDOX LIMITED, London, England.
Filed August 6, 1920. Serial No. 135,855. PUBLISHED APRIL 12, 1921.

144,815. RIBBONS AND SILK AND SATIN PIECE GOODS. JOHNSON, COWDIN & COMPANY, INC., New York, N. Y.
Filed September 21, 1920. Serial No. 137,416. PUBLISHED APRIL 5, 1921.

144,816. RIBBONS AND PIECE GOODS OF SILKS AND SATINS AND MIXTURES. JOHNSON, COWDIN & COMPANY, INC., New York, N. Y.
Filed November 29, 1920. Serial No. 140,388. PUBLISHED APRIL 12, 1921.

144,817. CERTAIN NAMED ELECTRIC-LIGHTING EQUIPMENT. JAMES J. JOHNSON, Chicago, Ill.
Filed December 2, 1920. Serial No. 140,532. PUBLISHED APRIL 5, 1921.

144,818. OVERALLS. KENT & ROUNTREE DRY GOODS CO., Springfield, Mo.
Filed October 25, 1920. Serial No. 138,768. PUBLISHED APRIL 12, 1921.

144,819. KNITTED SWEATERS AND SWEATER-COATS. THE KELLER KNITTING COMPANY, Cleveland, Ohio.
Filed January 22, 1920. Serial No. 127,480. PUBLISHED APRIL 12, 1921.

144,820. FLORIST DISPENSING SUPPLIES. KERVAN COMPANY, New York, N. Y.
Filed November 19, 1920. Serial No. 139,858. PUBLISHED APRIL 12, 1921.

144,821. SHELLED POPCORN. HARRY A. KESTING, Kansas City, Mo.
Filed December 23, 1920. Serial No. 141,660. PUBLISHED MARCH 29, 1921.

144,822. SKETCHING-PAPER. KRUFFEL & ESSER COMPANY, Hoboken, N. J.
Filed December 30, 1920. Serial No. 141,680. PUBLISHED MARCH 22, 1921.

144,823. DEHYDRATED WELSH RABBIT. CHESHIRE KITCHENS, INC., Dover, Del., and New York, N. Y.
Filed November 27, 1920. Serial No. 140,252. PUBLISHED APRIL 5, 1921.

144,824. CHOCOLATES AND BONBONS. KLISS CANDY COMPANY, Washington, D. C.
Filed November 9, 1920. Serial No. 139,401. PUBLISHED APRIL 5, 1921.

144,825. CREAM-POWDER FOR MAKING CUSTARDS AND PUDDINGS. FREDERICK KNAB, Chicago, Ill.
Filed September 23, 1920. Serial No. 137,524. PUBLISHED APRIL 5, 1921.

144,826. ELECTRIC SOCKET-SWITCHES, ELECTRIC MOTORS, ELECTRIC SWITCHES, ELECTRIC FUSES, AND ELECTRIC-LAMP SOCKETS. KILO ELECTRIC COMPANY, Indianapolis, Ind.
Filed January 17, 1921. Serial No. 142,346. PUBLISHED APRIL 5, 1921.

144,827. FIRE-BRICK AND FIRE-TILE. LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo.
Filed October 30, 1920. Serial No. 138,990. PUBLISHED MARCH 29, 1921.

144,828. SYRUPS AND MOLASSES FOR TABLE USE. LANGHOFF BROS. CO., New Orleans, La.
Filed November 23, 1920. Serial No. 140,044. PUBLISHED APRIL 5, 1921.

144,829. BOOTS AND SHOES OF LEATHER. LOUIS J. LEVINE, New York, N. Y.
Filed September 10, 1920. Serial No. 137,035. PUBLISHED APRIL 5, 1921.

144,830. SILK PIECE GOODS AND COTTON PIECE GOODS. S. M. LEVOR & CO., New York, N. Y.
Filed January 3, 1921. Serial No. 141,786. PUBLISHED APRIL 5, 1921.

144,831. PIANO-PLAYER ACTIONS. THE LINDENBERG PIANO COMPANY, Columbus, Ohio.
Filed October 19, 1920. Serial No. 138,502. PUBLISHED APRIL 5, 1921.

144,832. LINEN THREAD. THE LINEN THREAD COMPANY, New York, N. Y.
Filed November 4, 1920. Serial No. 139,165. PUBLISHED APRIL 12, 1921.

144,833. EDIBLE VEGETABLE OILS. LITTAUER OIL COMPANY, Guttenberg, N. J.
Filed December 28, 1920. Serial No. 141,593. PUBLISHED MARCH 29, 1921.

144,834. SPIRAL PUTTEES. LOCKHART SPIRAL SERVICE LEGGINGS INC., Brooklyn, N. Y.
Filed January 26, 1920. Serial No. 127,598. PUBLISHED APRIL 12, 1921.

144,835. CERTAIN NAMED PAPERS. HENRY B. LOUNSBURY, New York, N. Y.
Filed November 11, 1920. Serial No. 139,540. PUBLISHED APRIL 12, 1921.

144,836. CANDY. LOVE AND KOPIS CANDY CO., West Allis, Wis.
Filed December 23, 1920. Serial No. 141,462. PUBLISHED APRIL 5, 1921.

144,837. COTTON, WOOL, AND LINEN GOODS IN THE PIECE. MCDONALD BROS. CO., Minneapolis, Minn.
Filed March 1, 1920. Serial No. 129,070. PUBLISHED APRIL 12, 1921.

144,838. MEN'S HATS. MCKIBBIN, DRISCOLL & DOHERTY, INC., St. Paul, Minn.
Filed March 5, 1920. Serial No. 129,270. PUBLISHED APRIL 12, 1921.

144,839. CERTAIN NAMED TEXTILE PIECE GOODS, HOUSEHOLD LINENS, DRAPERIES, HANDKERCHIEFS, NETS, AND VEILINGS. MAASS & KEMPER, INCORPORATED, Baltimore, Md.
Filed December 17, 1920. Serial No. 141,234. PUBLISHED APRIL 5, 1921.

144,840. PAINTS, WHETHER WHITE OR COLORED, IN POWDERED, PASTY, OR LIQUID FORM. MAASTRICHTSCHE ZINKWIT MAATSCHAPPIJ, Maastricht, Netherlands.
Filed December 30, 1920. Serial No. 141,684. PUBLISHED APRIL 5, 1921.

144,841. PAINTS, WHETHER WHITE OR COLORED, IN POWDERED, PASTY, OR LIQUID FORM. MAASTRICHTSCHE ZINKWIT MAATSCHAPPIJ, Maastricht, Netherlands.
Filed August 23, 1920. Serial No. 136,381. PUBLISHED APRIL 5, 1921.

144,842. ABRASIVES COATED ON CLOTH OR PAPER, OR BOTH. MANNING ABRASIVE CO. INC., Troy, N. Y.
Filed December 21, 1920. Serial No. 141,384. PUBLISHED APRIL 19, 1921.

144,843. CHEVIOTS IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,265. PUBLISHED APRIL 5, 1921.

144,844. AWNING-STRIPES IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,267. PUBLISHED APRIL 5, 1921.

144,845. MOSQUITO-NETTING IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,270. PUBLISHED APRIL 5, 1921.

144,846. LONG-CLOTH IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,282. PUBLISHED APRIL 5, 1921.

144,847. SHEETS, PILLOW-CASES, AND SHEETING. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,291. PUBLISHED APRIL 5, 1921.

144,848. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,293. PUBLISHED APRIL 5, 1921.

144,849. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,295. PUBLISHED APRIL 5, 1921.

144,850. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,296. PUBLISHED APRIL 5, 1921.

144,851. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,300. PUBLISHED APRIL 5, 1921.

144,852. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,301. PUBLISHED APRIL 5, 1921.

144,853. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,303. PUBLISHED APRIL 5, 1921.

144,854. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,306. PUBLISHED APRIL 5, 1921.

144,855. MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,307. PUBLISHED APRIL 5, 1921.

144,856. CANDIES AND CHOCOLATES. MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y.
Filed February 19, 1919. Serial No. 115,996. PUBLISHED APRIL 5, 1921.

144,857. CONCRETE POLES. MASSEY CONCRETE PRODUCTS CORPORATION, Chicago, Ill.
Filed December 23, 1920. Serial No. 141,465. PUBLISHED APRIL 5, 1921.

144,858. PIECE GOODS—VIZ., SILK PIECE GOODS. JOHN H. MEYER SILK MILLS CO., Northampton borough, Pa., and New York, N. Y., assignor to John H. Meyer & Co., Inc., New York, N. Y., a Corporation of Delaware.
Filed December 17, 1919. Serial No. 126,191. PUBLISHED MARCH 1, 1921.

144,859. RUBBER TIRES, CASINGS, AND TUBES. THE MARATHON TIRE & RUBBER CO., Cuyahoga Falls, Ohio.
Filed October 28, 1919. Serial No. 124,278. PUBLISHED APRIL 5, 1921.

144,860. WEDDING-RINGS. J. A. MEYERS & CO., Los Angeles, Calif.
Filed August 30, 1920. Serial No. 136,635. PUBLISHED APRIL 5, 1921.

144,861. SILK, COTTON, AND WOOLEN PIECE GOODS AND THE COMBINATIONS THEREOF. J. A. MIGEL, INC., New York, N. Y.
Filed November 10, 1920. Serial No. 139,470. PUBLISHED MARCH 15, 1921.

144,862. DENTAL-PLATE POLISH. WM. A. MILLIKEN, New York, N. Y.
Filed July 12, 1920. Serial No. 134,838. PUBLISHED APRIL 12, 1921.

144,863. LEATHER. MONARCH LEATHER COMPANY, Chicago, Ill.
Filed January 5, 1920. Serial No. 126,808. PUBLISHED APRIL 12, 1921.

144,864. FLAT WALL-PAINT. BENJAMIN MOORE & CO., Jersey City, N. J., and Brooklyn, N. Y.
Filed August 19, 1920. Serial No. 136,278. PUBLISHED APRIL 5, 1921.

144,865. PUBLICATIONS — NAMELY, CATALOGUES ISSUED MONTHLY AND ANNUALLY. MOORE & EVANS, Chicago, Ill.
Filed November 6, 1919. Serial No. 124,616. PUBLISHED APRIL 5, 1921.

144,866. GLOVES AND MITTENS OF LEATHER, FABRIC, AND COMBINATION OF THE LEATHER AND FABRIC. H. J. MOORE GLOVE COMPANY, St. Paul, Minn.
Filed October 20, 1920. Serial No. 138,581. PUBLISHED APRIL 12, 1921.

144,867. POCKET SALES-REGISTERS. JOSHUA LINCOLN MORRIS, Chicago, Ill.
Filed December 1, 1920. Serial No. 140,499. PUBLISHED MARCH 29, 1921.

144,868. A CERTAIN NAMED RECORD-BOOK. MOTOR-LOG, Bethlehem, Pa.
Filed November 10, 1920. Serial No. 139,465. PUBLISHED APRIL 12, 1921.

144,869. RESIDUES OF OILS AND FATS USED AS FERTILIZERS. NAAMLOOZE VENNOOTSCHAP OLIEFABRIEKEN INSULINDE, Amsterdam, Netherlands.
Filed August 7, 1920. Serial No. 135,897. PUBLISHED APRIL 12, 1921.

144,870. CERTAIN NAMED JEWELRY. THE NAPIER-BLISS COMPANY, Meriden, Conn.
Filed December 23, 1920. Serial No. 141,467. PUBLISHED MARCH 29, 1921.

144,871. CRAYONS. NATIONAL CRAYON COMPANY, Philadelphia, Pa.
Filed December 13, 1920. Serial No. 141,018. PUBLISHED MARCH 22, 1921.

144,872. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed October 27, 1920. Serial No. 138,865. PUBLISHED MARCH 29, 1921.

144,873. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed October 27, 1920. Serial No. 138,866. PUBLISHED MARCH 29, 1921.

144,874. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed October 27, 1920. Serial No. 138,867. PUBLISHED MARCH 29, 1921.

144,875. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed October 27, 1920. Serial No. 138,868. PUBLISHED MARCH 29, 1921.

144,876. CERTIFIED FOOD-COLORS, DYESTUFFS, AND INTERMEDIATES. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed October 27, 1920. Serial No. 138,869. PUBLISHED MARCH 29, 1921.

144,877. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed October 27, 1920. Serial No. 138,870. PUBLISHED MARCH 29, 1921.

144,878. LICORICE-CANDY. NATIONAL LICORICE COMPANY, Brooklyn, N. Y.
Filed June 22, 1920. Serial No. 134,029. PUBLISHED APRIL 5, 1921.

144,879. RUBBER TIRES AND TUBES. THE NATIONAL TIRE & RUBBER COMPANY, East Palestine, Ohio.
Filed January 26, 1921. Serial No. 142,801. PUBLISHED MARCH 29, 1921.

144,880. HAIR-NETS. NATIONAL TRADING COMPANY, Chicago, Ill.
Filed November 12, 1920. Serial No. 139,591. PUBLISHED APRIL 12, 1921.

144,881. EGYPTIAN-WASTE-COTTON STRIPS. NEW ENGLAND WASTE COMPANY, Boston, Mass.
Filed May 28, 1920. Serial No. 133,062. PUBLISHED APRIL 12, 1921.

144,882. SOAP POWDER. IDA A. NEWMAN, New York, N. Y.
Filed January 28, 1921. Serial No. 142,904. PUBLISHED MARCH 29, 1921.

144,883. PHONOGRAPHS AND PHONOGRAPH-RECORDS, RECORD-ALBUMS, MECHANICAL PHONOGRAPH-MOTORS, REPRODUCERS, AND NEEDLES. THE NEW YORK RECORDING LABORATORIES, Port Washington, Wis.
Filed December 24, 1920. Serial No. 141,501. PUBLISHED MARCH 29, 1921.

144,884. GASOLENE, NAPHTHA, KEROSENE, GAS-OIL DISTILLATE, AND FUEL-OIL. OHIO REFINING COMPANY, Cincinnati, Ohio.
Filed January 12, 1920. Serial No. 127,066. PUBLISHED APRIL 12, 1921.

144,885. SWEEPING COMPOUNDS. OKLAHOMA JANITOR SUPPLY COMPANY, Tulsa, Okla.
Filed December 29, 1920. Serial No. 141,647. PUBLISHED APRIL 5, 1921.

144,886. FRESH APPLES. ISRAEL ORCHARD CO., Dayton, Wash.
Filed December 7, 1920. Serial No. 140,728. PUBLISHED APRIL 5, 1921.

144,887. FERTILIZERS. THE PACIFIC GUANO & FERTILIZER COMPANY, Honolulu, Territory of Hawaii.
Filed November 6, 1920. Serial No. 139,303. PUBLISHED APRIL 5, 1921.

144,888. RICE. PACIFIC RICE GROWERS' ASSOCIATION, Sacramento, Calif.
Filed December 30, 1920. Serial No. 141,689. PUBLISHED APRIL 5, 1921.

144,889. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 29, 1920. Serial No. 141,650. PUBLISHED APRIL 5, 1921.

144,890. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 29, 1920. Serial No. 141,651. PUBLISHED APRIL 5, 1921.

144,891. SWEET FEED COMPOSED OF OATS, ALFALFA-MEAL, AND MOLASSES. PEASE & DWYER CO., Memphis, Tenn.
Filed January 20, 1921. Serial No. 142,528. PUBLISHED MARCH 29, 1921.

144,892. SWEET FEED COMPOSED OF CORN, OATS, ALFALFA-MEAL, AND MOLASSES. PEASE & DWYER CO., Memphis, Tenn.
Filed January 20, 1921. Serial No. 142,524. PUBLISHED MARCH 29, 1921.

144,893. CANNED SHRIMP. PHOENIX PACKING COMPANY, Buras, La.
Filed December 16, 1920. Serial No. 141,186. PUBLISHED APRIL 12, 1921.

144,894. CANNED SHRIMP. PHOENIX PACKING COMPANY, Buras, La.
Filed December 16, 1920. Serial No. 141,187. PUBLISHED MARCH 29, 1921.

144,895. WASHING-POWDER. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed January 31, 1921. Serial No. 143,007. PUBLISHED MARCH 29, 1921.

144,896. CERTAIN NAMED TOILET PREPARATIONS. PURITAN PHARMACEUTICAL COMPANY, St. Louis, Mo.
Filed October 20, 1920. Serial No. 138,589. PUBLISHED MARCH 29, 1921.

144,897. PURE CREAMERY-BUTTER. RATON CREAMERY COMPANY, Raton, N. Mex.
Filed December 8, 1920. Serial No. 140,803. PUBLISHED APRIL 5, 1921.

144,898. COLD-WATER PAINT. THE REARDON COMPANY, St. Louis, Mo.
Filed July 16, 1920. Serial No. 135,073. PUBLISHED APRIL 5, 1921.

144,899. MOISTENERS, MUCILAGE-APPLYING DEVICES, INKWELLS, STAMP-AFFIXERS, AND PAPER FASTENERS AND CLIPS. RIVET-O MANUFACTURING COMPANY, Orange, Mass.
Filed December 27, 1920. Serial No. 141,533. PUBLISHED MARCH 22, 1921.

144,900. ICE-CREAM CONES. RUECKHEIM BROS. & ECKSTEIN, Chicago, Ill.
Filed September 15, 1919. Serial No. 122,731. PUBLISHED APRIL 5, 1921.

144,901. PEANUT-OIL FOR USE AS A SALAD-DRESSING AND OTHER CULINARY PURPOSES. THE ROGERS COMPANY, Tacoma, Wash.
Filed September 18, 1920. Serial No. 137,332. PUBLISHED APRIL 12, 1921.

144,902. CANNED FRUITS, FISH, VEGETABLES, COFFEE, TEA, FLAVORING EXTRACTS, SPICE, CATSUP, VINEGAR, AND PEANUT-BUTTER. GEO. M. RYRIE COMPANY, Alton, Ill.
Filed September 15, 1920. Serial No. 137,238. PUBLISHED APRIL 5, 1921.

144,903. CERTAIN NAMED PACKING. JOHN M. RHODES, Chicago, Ill.
Filed September 2, 1920. Serial No. 136,777. PUBLISHED APRIL 12, 1921.

144,904. CERTAIN NAMED PAINTS AND PIGMENTS. THOS. HUBBUCK & SON, LIMITED, London, England.
Filed October 9, 1919. Serial No. 123,576. PUBLISHED APRIL 12, 1921.

144,905. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 5, 1920. Serial No. 128,010. PUBLISHED APRIL 5, 1921.

144,906. HAIR-NETS. NATIONAL TRADING COMPANY, Chicago, Ill.
Filed November 12, 1920. Serial No. 139,590. PUBLISHED APRIL 12, 1921.

144,907. FANCY SILK OR CLOTH BAGS DESIGNED FOR HOLDING KNITTING OR SEWING MATERIAL. NAVY LEAGUE OF THE UNITED STATES, Washington, D. C.
Filed November 12, 1917. Serial No. 107,333. PUBLISHED APRIL 12, 1921.

144,908. BREAD. OGDEN BAKING COMPANY, Ogden, Utah.
Filed October 19, 1920. Serial No. 138,510. PUBLISHED APRIL 5, 1921.

144,909. HATS FOR WOMEN AND CHILDREN. OGUS, RABINOVICH & OGUS CO., Chicago, Ill., and New York, N. Y.
Filed November 3, 1920. Serial No. 139,127. PUBLISHED APRIL 5, 1921.

144,910. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 13, 1920. Serial No. 141,013. PUBLISHED APRIL 12, 1921.

144,911. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 13, 1920. Serial No. 141,014. PUBLISHED APRIL 12, 1921.

144,912. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 13, 1920. Serial No. 141,015. PUBLISHED APRIL 12, 1921.

144,913. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed December 14, 1920. Serial No. 141,079. PUBLISHED APRIL 12, 1921.

144,914. TOILET SOAP. THE REMMERS SOAP COMPANY, Cincinnati, Ohio.
Filed October 25, 1918. Serial No. 113,890. PUBLISHED APRIL 12, 1921.

144,915. WHEAT-FLOUR. JACOB ROSENSTEIN, New York, N. Y.
Filed January 20, 1921. Serial No. 142,532. PUBLISHED APRIL 5, 1921.

144,916. NON-ALCOHOLIC MALTLESS BEVERAGES USED AS SOFT DRINKS. SAVINO SALIBRNO, Boston, Mass.
Filed October 23, 1920. Serial No. 138,733. PUBLISHED APRIL 12, 1921.

144,917. MAGAZINE LEAD-PENCILS. THE SANDFELDER CORPORATION, Attleboro, Mass.
Filed December 29, 1920. Serial No. 141,655. PUBLISHED MARCH 22, 1921.

144,918. ARTIFICIAL LEATHER. SANFORD MILLS, Sanford, Me.
Filed February 6, 1920. Serial No. 128,051. PUBLISHED APRIL 12, 1921.

144,919. TEXTILE FABRICS—NAMELY, SILK, SILK AND WOOL, AND SILK AND COTTON FABRICS. CARL SCHORN SILK CORPORATION, New York, N. Y.
Filed December 15, 1920. Serial No. 141,137. PUBLISHED APRIL 12, 1921.

144,920. DRESSES. GEORGE SCHULMAN, New York, N. Y.
Filed November 3, 1920. Serial No. 139,133. PUBLISHED APRIL 12, 1921.

144,921. MINERAL WATERS. SCHWEPPES, LIMITED, London, England.
Filed November 2, 1920. Serial No. 139,095. PUBLISHED APRIL 5, 1921.

144,922. MOTOR-VEHICLES—VIZ., MOTOR-CARS, MOTOR-BOATS, FLYING-MACHINES, AIRSHIPS, AND MOTOR-BICYCLES. SCINTILLA, Canton of Solothurn, Switzerland.
Filed August 12, 1920. Serial No. 136,042. PUBLISHED APRIL 5, 1921.

144,923. DIAPER-FLANNEL IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed October 30, 1920. Serial No. 139,009. PUBLISHED APRIL 5, 1921.

144,924. MIDDY-CLOTH IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 10, 1920. Serial No. 139,483. PUBLISHED APRIL 5, 1921.

144,925. COTTON SERGE IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 17, 1920. Serial No. 139,756. PUBLISHED APRIL 5, 1921.

144,926. CHAMBRAY IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 17, 1920. Serial No. 139,757. PUBLISHED APRIL 5, 1921.

144,927. GINGHAMS IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 27, 1920. Serial No. 140,352. PUBLISHED APRIL 12, 1921.

144,928. HAIR-NETS. N. SELIGMAN MERCHANDISE CO., New York, N. Y.
Filed November 12, 1920. Serial No. 139,598. PUBLISHED APRIL 12, 1921.

144,929. POLISH FOR WOODWORK, TABLES, AND FLOORS. ALEX. D. SHAW & CO., New York, N. Y.
Filed February 6, 1920. Serial No. 128,052. PUBLISHED APRIL 5, 1921.

144,930. BUILDINGS AND CERTAIN NAMED PARTS THEREOF. THE ARTHUR B. SHEPARD COMPANY, Cleveland, Ohio.
Filed February 6, 1920. Serial No. 128,053. PUBLISHED APRIL 12, 1921.

144,931. HARMONICAS OR MOUTH-ORGANS. SHERMAN, CLAY & CO., San Francisco, Calif.
Filed December 18, 1919. Serial No. 126,235. PUBLISHED MARCH 29, 1921.

144,932. SOFT DRINK BEVERAGE. S. S. S. MFG. CO., Madisonville, Ky.
Filed November 3, 1920. Serial No. 139,130. PUBLISHED APRIL 12, 1921.

144,933. FRESH GRAPEFRUIT AND FRESH ORANGES. WALTER A. SIMONDS, Naguabo, Porto Rico.
Filed June 1, 1917. Serial No. 104,202. PUBLISHED APRIL 5, 1921.

144,934. CERTAIN NAMED ELECTRICAL APPARATUS. SIMPLEX ELECTRIC HEATING COMPANY, Boston, Mass.
Filed October 20, 1920. Serial No. 138,602. PUBLISHED APRIL 12, 1921.

144,935. CERTAIN ARTICLES OF CLOTHING. JOHN B. SIMPSON, Philadelphia, Pa.
Filed October 5, 1920. Serial No. 137,970. PUBLISHED APRIL 5, 1921.

144,936. RAZOR-STROPS. SIMMONS HARDWARE COMPANY, St. Louis, Mo.
Filed December 6, 1920. Serial No. 140,684. PUBLISHED MARCH 29, 1921.

144,937. CANNED FRUITS. SMITH-FRANK PACKING CO., Sacramento, Calif.
Filed December 30, 1920. Serial No. 141,695. PUBLISHED APRIL 5, 1921.

144,938. CANNED FRUITS. SMITH-FRANK PACKING CO., Sacramento, Calif.
Filed December 30, 1920. Serial No. 141,697. PUBLISHED APRIL 5, 1921.

144,939. POLISH FOR FURNITURE AND AUTOMOBILES. FRANK P. SMITH, Huntington, Ind.
Filed November 15, 1919. Serial No. 124,957. PUBLISHED APRIL 12, 1921.

144,940. METAL WASHERS AND LOCK-WASHERS. SMITH & HEMENWAY COMPANY, INC., New York, N. Y., and Irvington, N. J.
Filed December 1, 1920. Serial No. 140,508. PUBLISHED MARCH 29, 1921.

144,941. LADIES' HATS, TRIMMED AND UNTRIMMED. HARRY SOLOMONS & SON, New York, N. Y.
Filed October 16, 1920. Serial No. 138,414. PUBLISHED APRIL 12, 1921.

144,942. PHONOGRAPHS, PHONOGRAPH-RECORD EJECTORS, AND PHONOGRAPH-RECORD EJECTORS MOUNTED IN CABINETS. SOUTHERN CALIFORNIA HARDWOOD AND MANUFACTURING COMPANY, Los Angeles, Calif.
Filed December 27, 1920. Serial No. 141,540. PUBLISHED APRIL 5, 1921.

144,943. CANDIES, ICE-CREAM, LUNCHES, AND CAKES. THE SPOON AND STRAW, INC., Chicago, Ill.
Filed November 20, 1920. Serial No. 139,912. PUBLISHED APRIL 12, 1921.

144,944. ASPHALTUM. STANDARD OIL COMPANY OF NEW YORK, New York, N. Y.
Filed November 29, 1920. Serial No. 140,411. PUBLISHED MARCH 29, 1921.

144,945. SHAVING-CREAM TO BE USED BEFORE SHAVING. THE STANDARD SANITARY SPECIALTIES COMPANY, INC., Jersey City, N. J.
Filed September 29, 1920. Serial No. 137,749. PUBLISHED APRIL 5, 1921.

144,946. BLOTTING-PAPER. STANDARD PAPER MFG. CO., Richmond, Va.
Filed December 13, 1920. Serial No. 141,045. PUBLISHED MARCH 22, 1921.

144,947. ELECTRICAL FUEL-HEATERS FOR EXPLOSION-ENGINES. THE STARTIT MANUFACTURING COMPANY, Indianapolis, Ind.
Filed December 18, 1920. Serial No. 141,280. PUBLISHED APRIL 12, 1921.

144,948. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. THE STONE FIZE COMPANY OF AMERICA INC., Chattanooga, Tenn.
Filed December 10, 1920. Serial No. 140,903. PUBLISHED APRIL 5, 1921.

144,949. FRESH CITRUS FRUITS. THE J. L. TAYLOR COMPANY, Los Angeles, Calif.
Filed August 24, 1920. Serial No. 136,439. PUBLISHED APRIL 5, 1921.

144,950. KEROSENE-OIL. THE TEXAS COMPANY, Houston, Tex., and New York, N. Y.
Filed February 11, 1920. Serial No. 128,285. PUBLISHED APRIL 5, 1921.

144,951. CANNED FRUITS AND CANNED VEGETABLES. THOMAS-BODY COMPANY, San Francisco, Calif.
Filed December 30, 1920. Serial No. 141,702. PUBLISHED APRIL 5, 1921.

144,952. PUBLICATION AT PRESENT ISSUED QUARTERLY. THE THRESHERMEN'S REVIEW COMPANY, St. Joseph, Mich.
Filed July 7, 1920. Serial No. 134,678. PUBLISHED APRIL 5, 1921.

144,953. FUSE-PLUGS, ELECTRIC SWITCHES, CUT-OUTS, ELECTRIC RECEPTACLES, ROSETTES, AND GROUND-CLAMPS. TRENTON ELECTRIC & CONDUIT CO., Trenton, N. J.
Filed January 10, 1921. Serial No. 142,048. PUBLISHED APRIL 5, 1921.

144,954. PAINT-PIGMENTS AND PAINTS CONTAINING TITANIUM OR A COMPOUND THEREOF. TITAN CO. A/S., Christiania, Norway.
Filed February 6, 1920. Serial No. 128,056. PUBLISHED DECEMBER 21, 1920.

144,955. ROPE MADE FROM FIBER. TUBBS CORDAGE COMPANY, San Francisco, Calif.
Filed August 5, 1918. Serial No. 112,544. PUBLISHED APRIL 5, 1921.

144,956. RIBBON AND TEXTILE FABRICS IN THE PIECE, TOWELS, TOWELING, AND TAPESTRY. BERNHARD ULMANN CO., INC., New York, N. Y.
Filed December 8, 1920. Serial No. 140,815. PUBLISHED APRIL 12, 1921.

144,957. METAL LAMP-POSTS FOR ELECTRIC LIGHTS. THE UNION METAL MANUFACTURING COMPANY, Canton, Ohio.
Filed November 15, 1919. Serial No. 124,961. PUBLISHED MAY 3, 1921.

144,958. WATERPROOF AND WEATHERPROOF COATS. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed June 30, 1920. Serial No. 134,446. PUBLISHED APRIL 5, 1921.

144,959. WHEAT-FLOUR. GEORGE URBAN MILLING COMPANY, Buffalo, N. Y.
Filed September 2, 1920. Serial No. 136,774. PUBLISHED APRIL 12, 1921.

144,960. FRESH CANTALOUPS, FRESH CAULIFLOWER, FRESH ONIONS, FRESH TOMATOES, AND FRESH GRAPES. WILLIS E. UAICK, Los Angeles, Calif.
Filed June 9, 1920. Serial No. 133,506. PUBLISHED APRIL 5, 1921.

144,961. CERTAIN NAMED BELTING. VACUUM BELTING COMPANY, Indianapolis, Ind.
Filed September 23, 1920. Serial No. 137,550. PUBLISHED APRIL 19, 1921.

144,962. FINGER-RINGS. VANDERVOORT BROTHERS, INCORPORATED, Buffalo, N. Y.
Filed October 28, 1920. Serial No. 138,932. PUBLISHED APRIL 5, 1921.

144,963. ELECTRICAL ADVERTISING AND DIRECTIONAL SIGNS OF ALL KINDS. VIKING SIGN COMPANY, INC., New York, N. Y.
Filed November 5, 1920. Serial No. 139,237. PUBLISHED APRIL 12, 1921.

144,964. CANDY. VOGAN CANDY COMPANY, Portland, Oreg.
Filed December 30, 1920. Serial No. 141,707. PUBLISHED APRIL 5, 1921.

144,965. HAIR-NETS. GUSTAVE VOGEL, St. Louis, Mo.
Filed November 1, 1920. Serial No. 139,066. PUBLISHED APRIL 12, 1921.

144,966. PLASTER-BOARD. WALDORF PAPER PRODUCTS COMPANY, St. Paul, Minn.
Filed January 15, 1921. Serial No. 142,309. PUBLISHED APRIL 5, 1921.

144,967. SOAP. JOHN WANAMAKER, NEW YORK, New York, N. Y.
Filed January 31, 1921. Serial No. 143,022. PUBLISHED MARCH 29, 1921.

144,968. PAPER-MAKER'S WOOLEN FELTS AND JACKETS. THE WATERBURY FELT COMPANY, Skaneateles Falls, N. Y.
Filed October 8, 1920. Serial No. 138,114. PUBLISHED APRIL 12, 1921.

144,969. UNFERMENTED CIDER. A. W. WAUGH FRUIT Co., Wilmington, Del., and Brooklyn, N. Y.
Filed October 14, 1920. Serial No. 138,310. PUBLISHED APRIL 5, 1921.

144,970. CERTAIN NAMED FOODS. WELLMAN-PECK & Co., San Francisco, Calif.
Filed December 30, 1920. Serial No. 141,710. PUBLISHED APRIL 5, 1921.

144,971. CERTAIN ARTICLES OF CLOTHING. WESTERN DRY GOODS CO., Seattle, Wash.
Filed October 20, 1920. Serial No. 138,612. PUBLISHED APRIL 5, 1921.

144,972. COFFEE. WESTFELDT BROTHERS, New Orleans, La.
Filed December 28, 1920. Serial No. 141,615. PUBLISHED APRIL 5, 1921.

144,973. SPECIAL WATERPROOF GARMENT FOR SMALL CHILDREN. ALICE M. M. WHITE, Elmhurst, N. Y.
Filed December 27, 1919. Serial No. 126,550. PUBLISHED APRIL 5, 1921.

144,974. BRISTOL-BOARDS. WHITING PAPER COMPANY, Holyoke, Mass.
Filed November 15, 1920. Serial No. 139,693. PUBLISHED MARCH 22, 1921.

144,975. WHEAT-FLOUR. WICHITA MILL AND ELEVATOR COMPANY, Wichita Falls, Tex.
Filed November 9, 1920. Serial No. 139,437. PUBLISHED APRIL 5, 1921.

144,976. SHAVING-CREAM IN THE NATURE OF SOAP, SHAVING-POWDER, SHAVING-STICK, AND LIQUID SOAP. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed July 6, 1920. Serial No. 134,618. PUBLISHED APRIL 5, 1921.

144,977. BREAD, CAKE, AND PASTRIES. MORYTZ H. WILDSTEIN, Rockaway Beach, N. Y.
Filed November 18, 1919. Serial No. 125,067. PUBLISHED APRIL 5, 1921.

144,978. ELECTRIC-ARC LAMPS. M. J. WOHL & Co. INC., New York and Long Island City, N. Y.
Filed January 17, 1921. Serial No. 142,374. PUBLISHED APRIL 5, 1921.

144,979. IMITATION-PEARL-BEAD NECKLACES. H. WOLFF & Co., New York, N. Y.
Filed January 3, 1921. Serial No. 141,821. PUBLISHED MARCH 29, 1921.

144,980. MOUTHPIECES AND REEDS FOR CLARINETS AND SAXOPHONES. THE WOODWIND COMPANY, New York, N. Y.
Filed December 29, 1920. Serial No. 141,658. PUBLISHED APRIL 5, 1921.

144,981. TEA. YANGTZE CORPORATION, New York, N. Y.
Filed September 3, 1920. Serial No. 136,820. PUBLISHED APRIL 5, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

JULY 19, 1921.

144,982. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ACHESON GRAPHITE COMPANY, Niagara Falls, N. Y. Filed Jan. 14, 1921. Serial No. 142,242.

ACHESON

Particular description of goods.—Electrodes, Anodes, and Carbon Brushes.
Claims use since 1900.

144,983. (CLASS 11. INKS AND INKING MATERIALS.) LEONARD ADAM, Chicago, Ill. Filed May 26, 1920. Serial No. 132,960.

PERMANENT

Particular description of goods.—An Indelible Writing-Ink in Powdered Form.
Claims use since Jan. 1, 1920.

144,984. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN PIANO COMPANY, Jersey City, N. J., and New York, N. Y. Filed May 19, 1921. Serial No. 147,904.

Armstrong

Particular description of goods.—Pianos and Player-Pianos.
Claims use since about 1898.

144,985. (CLASS 12. CONSTRUCTION MATERIALS.) THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y., and Worcester, Mass. Filed Mar. 30, 1921. Serial No. 145,427.



Particular description of goods.—Plain and Galvanized Woven-Wire Concrete-Reinforcement.
Claims use since Apr. 22, 1913.

144,986. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) JAMES ANDERSON, Cleveland, Ohio. Filed Feb. 17, 1921. Serial No. 143,676.

F. C. PINYOUN & SON
2526 CARNEGIE AVE.
CLEVELAND,
OHIO
PORTABLE BUILDINGS

Particular description of goods.—Portable and Stationary Buildings and Assembled Units Thereof.
Claims use since 1908.

144,987. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga. Filed June 22, 1918. Serial No. 111,804.

Peerless Hair Vigor

Particular description of goods.—Hair-Tonics, Scalp-Stimulant, Dandruff-Preventive.
Claims use since September, 1917.

144,988. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUTH E. BRAMLETTE, Indianapolis, Ind. Filed Nov. 27, 1920. Serial No. 140,245.

HAWAIIAN

Particular description of goods.—Hair-Tonic, Shampoo Compound, Pressing-Oil, Hair-Grower, Eczema-Salve, and Compound for Treating Dandruff.
Claims use since March, 1913.

144,989. (CLASS 39. CLOTHING.) BOURN RUBBER CO., Providence, R. I. Filed Apr. 9, 1919. Serial No. 117,292.

Covd.

Particular description of goods.—Rubber Boots and Shoes.
Claims use since Jan. 27, 1919.

144,990. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & CO., Jersey City, N. J., and New York, N. Y. Filed Dec. 29, 1920. Serial No. 141,627.

QUINOL

Particular description of goods.—Hair-Tonics.
Claims use since Sept. 1, 1900.

144,991. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CALDWELL IMPORTING CO., Minneapolis, Minn. Filed Apr. 2, 1921. Serial No. 145,603.

GOLD MEDAL

Particular description of goods.—Coffee.
Claims use since Jan. 1, 1917.

144,992. (CLASS 39. CLOTHING.) COULTER DRY GOODS COMPANY, Los Angeles, Calif. Filed July 22, 1920. Serial No. 135,260.

Loraine

Particular description of goods.—Leather Gloves for Men and Women.
Claims use since May 13, 1920.

144,993. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DOSS RUBBER & TUBE CO., INC., Atlanta, Ga. Filed Feb. 17, 1919. Serial No. 115,905.



Particular description of goods.—Rubber Tires.
Claims use since Dec. 31, 1918.

144,994. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DOSS RUBBER & TUBE CO., INC., Atlanta, Ga. Filed Feb. 17, 1919. Serial No. 115,906.



Particular description of goods.—Rubber Tires.
Claims use since Dec. 31, 1918.

144,995. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DOSS RUBBER & TUBE CO., INC., Atlanta, Ga. Filed Feb. 17, 1919. Serial No. 115,907.

DOSS

Particular description of goods.—Rubber Tires.
Claims use since Dec. 31, 1918.

144,996. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WALTER D. ELMORE, Pittsburgh, Pa. Filed Apr. 4, 1921. Serial No. 145,676.

Elmore

Particular description of goods.—Antifriction Metals.
Claims use since Feb. 1, 1915.

144,997. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE GRAFF FURNACE CO., New York, N. Y. Filed Feb. 23, 1921. Serial No. 143,922.

FAULTLESS-COMFORT

Particular description of goods.—Warm-Air, Coal, Wood, Gas, and Oil Furnaces and Cooking-Ranges.
Claims use since 1910.

144,998. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE GRAFF FURNACE CO., New York, N. Y. Filed Feb. 23, 1921. Serial No. 143,924.

FAULTLESS
SCIENTIFIC

Particular description of goods.—Warm-Air, Coal, Wood, Gas, and Oil Furnaces and Cooking-Ranges.
Claims use since 1906.

144,999. (CLASS 37. PAPER AND STATIONERY.) THE HALL LITHOGRAPHING CO., Topeka, Kans. Filed Feb. 3, 1921. Serial No. 143,125

THE HALL MARK OF QUALITY
HALL TOPEKA

Particular description of goods.—Rubber Bands, Loose-Leaf Binders, and Lead-Pencils.
Claims use since Jan. 1, 1916.

145,000. (CLASS 2. RECEPTACLES.) MONO-SERVICE CO., Newark, N. J. Filed Sept. 7, 1920. Serial No. 136,900.

KLEEN KUP

Particular description of goods.—Composition Containers for Food Products—Namely, Wood-Fiber Containers of the Tumbler and Tub Shaped Type.
Claims use since October, 1911.

145,001. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARTIN LUTHER MOORE, Memphis, Tenn. Filed Jan. 20, 1921. Serial No. 142,507.

MOORE'S

Particular description of goods.—General Tonics; Tonics for Use in Purifying the Blood, Strengthening the Nerves, Building Up Vitality; Tonics for Use in Treating Constipation, Indigestion, the Kidneys, and Pellagra; Tonics for Use in the Treatment of Tuberculosis, Bronchitis, Catarrh, Asthma, Coughs, and Colds; Liniments for the Treatment of Wind-Colic, Muscular Cramp, Bronchial Cough, Spasmodic Croup, Acute Pleurisy, Skin Irritations, Muscular Rheumatism, Lumbago, Stiff Neck, Neuralgic Headaches, Neuralgia, Bruises, and Insect Bites and Stings.
Claims use since 1914.

145,002. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NAUMKEAG STEAM COTTON CO., Salem, Mass. Filed Apr. 7, 1921. Serial No. 145,850.

SALEM

Particular description of goods.—Sheets, Pillow-Cases, and Cotton Piece Goods.
Claims use since 1900.

145,003. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PACIFIC CHEMICAL COMPANY, Los Angeles, Calif. Filed Dec. 30, 1920. Serial No. 141,690.

PRONTO

Particular description of goods.—Chemical Drain Opener and Cleaner.
Claims use since Feb. 24, 1920.

145,004. (CLASS 38. PRINTS AND PUBLICATIONS.) A. I. RANDALL, INC., Rockland, Mass. Filed Nov. 9, 1920. Serial No. 139,430.

A. I. Randall Inc

Particular description of goods.—Catalogues, Booklets, Price-Lists, and Pamphlets.
Claims use since Apr. 1, 1920.

145,005. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE READE M'F'G CO., Jersey City, N. J. Filed Jan. 8, 1921. Serial No. 141,996.

INCOMPARABLE

Particular description of goods.—Soldering Fluids, Soldering-Paste, Soldering-Salts, Tinning Solution, and Soldering-Flux.
Claims use since 1888.

145,006. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) J. E. RHOADS & SONS, Philadelphia, Pa., and Wilmington, Del. Filed Jan. 31, 1921. Serial No. 143,013.

POWER

Particular description of goods.—Flat Leather Belting.
Claims use since about Feb. 1, 1909.

145,007. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SERVICE AUTO EQUIPMENT CORPORATION, Kansas City, Mo. Filed Oct. 2, 1917. Serial No. 106,562.

SERVICE

Particular description of goods.—Outer Tubes or Shoes for Pneumatic Tires.
Claims use since Apr. 1, 1917.

145,008. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARVIN L. SEWELL, Lavonia, Ga. Filed Feb. 17, 1920. Serial No. 128,524.

"EASY-TEETHER"

Particular description of goods.—A Preparation for Teething of Infants, Liver, Kidneys, Glands, Stomach, and Bowel Diseases, Colic, Cholera Infantum, Hives, Colds, and Worms.
Claims use since Jan. 7, 1920.

145,009. (CLASS 11. INKS AND INKING MATERIALS.) G. SIEGLE COMPANY, Rosebank, Staten Island, N. Y. Filed Feb. 11, 1919. Serial No. 115,788.

Bengal

Particular description of goods.—Colors Used in Ink for Printing and Lithographing.
Claims use since about 1910.

145,010. (CLASS 11. INKS AND INKING MATERIALS.) G. SIEGLE COMPANY, Rosebank, Staten Island, N. Y. Filed Feb. 11, 1919. Serial No. 115,790.

Topaz

Particular description of goods.—Colors Used in Ink for Printing and Lithographing.
Claims use since about 1910.

145,011. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SMITH, HOGG & CO., New York, N. Y. Filed May 20, 1921. Serial No. 147,997.

LEHIGH

The trade-mark is stamped in blue.
Particular description of goods.—Cotton Goods in the Piece.
Claims use since 1910.

145,012. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SMITH, HOGG & CO., New York, N. Y. Filed May 20, 1921. Serial No. 147,998.

MICHIGAN

The trade-mark is stamped in blue.
Particular description of goods.—Cotton Goods in the Piece.
Claims use since 1910.

145,013. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed Apr. 12, 1921. Serial No. 146,091.

Wesson

Particular description of goods.—Prepared Fatty Oleaginous or Unctuous Food Substance.
Claims use since about June, 1899.

145,014. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SPENCER KELLOGG & SONS, INC., Buffalo, N. Y. Filed Dec. 6, 1920. Serial No. 140,660.

KELLOGG'S TASTELESS CASTOR OIL

Particular description of goods.—Castor-Oil.
Claims use since December, 1914.

145,015. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) STANDARD VENTILATOR COMPANY, Lewisburg, Pa. Filed May 11, 1921. Serial No. 147,574.

STANDARD

Particular description of goods.—Ventilators and Chimney-Caps.
Claims use since Sept. 15, 1909.

145,016. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIAN E. A. STROUD, Philadelphia, Pa. Filed Dec. 2, 1920. Serial No. 140,552.

STROUD'S

Particular description of goods.—Shampooing Preparation.
Claims use since 1907.

145,017. (CLASS 37. PAPER AND STATIONERY.) F. A. TOOMBS & CO., Brooklyn, N. Y. Filed Feb. 25, 1921. Serial No. 144,055.

Pictorial Log

Particular description of goods.—Photograph-Albums.
Claims use since July, 1915.

145,018. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED STATES TIRE COMPANY, New York, N. Y. Filed Apr. 30, 1921. Serial No. 147,066.

CHAIN TREAD

Particular description of goods.—Rubber Vehicle-Tires.
Claims use since Nov. 21, 1913.

145,019. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WHITE FLAME LIGHT CO., Grand Rapids, Mich. Filed May 4, 1921. Serial No. 147,224.

White Light

Particular description of goods.—Lamp-Burners.
Claims use since 1916.

145,020. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) WICHITA MOTORS COMPANY, Wichita Falls, Tex. Filed Apr. 29, 1920. Serial No. 131,845.



Particular description of goods.—Motor-Trucks.
Claims use since Jan. 2, 1918.

145,021. (CLASS 39. CLOTHING.) THE WILSON RUBBER COMPANY, Canton, Ohio. Filed Nov. 11, 1920. Serial No. 139,537.

LO-TEST

Particular description of goods.—Rubber Gloves.
Claims use since Jan. 1, 1917.

145,022. (CLASS 39. CLOTHING.) THE WILSON RUBBER COMPANY, Canton, Ohio. Filed Nov. 11, 1920. Serial No. 139,556.

PURITEE

Particular description of goods.—Rubber Gloves.
Claims use since Jan. 1, 1917.

145,023. (CLASS 39. CLOTHING.) THE WILSON RUBBER COMPANY, Canton, Ohio. Filed Nov. 11, 1920. Serial No. 139,558.

HI-TEST

Particular description of goods.—Rubber Gloves.
Claims use since Jan. 1, 1917.

DECISIONS
OF THE
COMMISSIONER OF PATENTS
AND OF
UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Supreme Court of the United States.

WEBER ELECTRIC COMPANY *v.* E. H. FREEMAN ELECTRIC COMPANY.

Decided June 6, 1921.

1. PATENTS — INFRINGEMENT — IDENTITY — DIFFERENT MODES OF OPERATION.
The Weber patent, No. 743,206, for improvements in incandescent-electric-lamp sockets, claim 4, involving a sleeve and cap having provisions for locking against longitudinal movement by a snap action, but which lacks any provision for preventing disengagement by a rotative movement, *Held* not infringed by a device constructed in accordance with Patent No. 927,344, having two similar parts engaged, but not locked, by a longitudinal thrust, the locking being effected by a rotative movement.

2. SAME—CLAIM CONSTRUED IN VIEW OF PRIOR ART AND PROCEEDINGS IN PATENT OFFICE.
The Weber patent, No. 743,206, for improvements in incandescent-electric-lamp sockets, claim 4, the words "telescopically received" and "telescopically applied," in view of the prior art, the file-wrapper and a second patent to the same patentee and others, No. 916,812, *Held* restricted to a direct longitudinal movement or thrust of the sleeve into the cap, which is not infringed by the device or Patent No. 927,344, which locks by a rotary movement.

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Third Circuit.

Mr. Charles Neave and *Mr. Frank C. Curtis* for Weber Electric Co.

Mr. Livingston Gifford and *Mr. D. P. Wolhaupter* for E. H. Freeman Electric Co.

Mr. Justice CLARKE delivered the opinion of the Court.

This is a suit for infringement of Letters Patent of the United States, No. 743,206, granted to August Weber, Sr., on November 3, 1903. The district court held claims 1 and 4 valid and infringed, but the circuit court of appeals, while affirming the validity of the claims, reversed the holding that they were infringed. A supposed conflict of this decision as to infringements with one by the Circuit Court of Appeals of the Second Circuit, with respect to the same patent, serves to bring the case here for review on writ of certiorari.

The patent is a simple and, as we shall see, a narrow one. As described in the specification it relates to new and useful improvements in incandescent-electric-lamp sockets, the principal object of which is to provide a simple and effective automatic lock or connection between the sleeve and the cap of such a socket.

Nothing new electrically or in the general form of the cap or sleeve is claimed,—the invention relates solely to the method of fastening the overlapping cap to the sleeve, or, as it is sometimes called, the shell or casing.

The validity of the claims involved is conceded in argument, and, having regard to the disclaimer with respect to claims 2 and 3, which has been filed by the petitioner since the decision by the circuit court of appeals, we regard the issue as now narrowed to the infringement of the fourth claim.

The familiar incandescent lamp consists of a glass bulb, attached to a screw-threaded base, adapted to be screwed into a properly-insulated block, through which the necessary electrical connections are made, and which is inclosed by a cylindrical "sleeve" of sheet metal. In order to complete the lamp this detached sleeve supporting the bulb and inclosing the insulated block must be fitted and securely fastened into the usual cap, which is attached to the wall or fixture, for if the fastening should become loose, the light might fail, or the bulb fall, or a fire hazard be created. To invent a device by which the sleeve and cap should be easily and securely attached to each other and yet be readily detached when desired, was the problem to which the patentee addressed himself, and his solution of it is thus described in the fourth claim of the patent:

> In a device of the class described, and in combination a pair of members comprising a sheet metal sleeve having a slotted end, and a sheet metal cap adapted to telescopically receive the slotted end of said sleeve, one of said members being provided with a recess, and the other having a correspondingly located *transverse slit and the wall on one side thereof displaced to form a* projection beveled or inclined toward said recessed member and terminating abruptly *at said slit*, whereby said members are adapted to automatically interlock with a snap action when telescopically applied to each other, and to be released by *manual* compression of said slotted sleeve, substantially as described.

To make the device thus described, it was only necessary to cut two transverse slits, each about one-quarter of an inch in length, in opposite sides of the flange of an ordinary cap, and to then, with a punch or die, force outward the upper edges or walls of the slits to the extent desired to create the necessary "recesses" which must "terminate" at the lower, sharp edges of the slits. A similar operation on a slotted sleeve would produce a similar result, but when viewed from the outer surface of

the sleeve the recesses would become the projections of the quoted fourth claim. When, such sleeve is telescopically applied to—pushed or pressed into—the cap, it is obvious that with the recesses in the cap and the projections in the sleeve properly positioned and of a suitable size, when the projections shall register with the recesses, the resiliency of the metal will cause the two to engage with a snap action and the sharp lower edges of the slots in the cap will then prevent the cap and sleeve from being separated by a longitudinal movement only, until the sleeve shall be manually compressed to release the projections from the recesses.

It is to be noted, for it will be of significance in the interpretation of the claim involved, that it is required that the projections on the sleeve shall be "beveled or inclined toward said recessed member," and in the specification it is provided that the projections shall be—

beveled or inclined from the inner end of the sleeve toward the outer end.

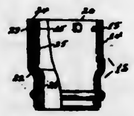
With such construction it would seem plain, even without the exhibits, which show it to be true, that, friction aside, projections so beveled or inclined could readily be released by rotative movement from similarly-shaped recesses without compression of the sleeve.

It was admitted at the bar that sockets made as specified in the patent in suit were never put upon the market, but the record shows that with a feature added which is covered by another patent owned by petitioner, the socket met with large commercial success. This other patent is No. 916,812 and was granted March 30, 1909, to the patentee of the patent in suit and two others, on an application filed July 18, 1904. Figure 8 from the drawings of this patent, showing the cap and sleeve of the petitioner's socket as manufactured by it, will aid in describing the additional "improvement" which it made to the device of the patent in suit and will also be of service in comparing this device with what is claimed to be the infringing socket of the respondent.

Fig. 8.



Fig. 9.



This patent is also for improvements in incandescent-electric-light sockets and contains fourteen claims, of which only the terms of the first need be noticed. It claims as new and useful—

a pair of tubular, sheet metal members, one adapted to telescopically receive the other, having mutually abutting cut-metal edges on the respective members (the slot 19 in the cap and projection 20 in the sleeve), to *prevent relative rotative movement*, and automatically interlocking means *for preventing a telescopic movement of separation* of one member from the other (the recesses 17 in the cap and the projections 15 in the sleeve), said means permitting, without manipulation thereof, the telescopic application of the members to each other.

This language, with slight additions and omissions, not significant, is repeated in claims 3, 13, and 14.

This device for preventing "relative rotative movement" of the cap on the sleeve is the feature which the petitioner added to the socket of the patent in suit before putting it upon the market and it consists, as the figure *supra* shows, in the open slot (19) cut to the edge of the flange of the cap, into which passes the projection on the sleeve (20) when the two are "telescopically applied" to each other. This projection (20) is formed by cutting two longitudinal slits in the sleeve and then pressing outward the narrow strip of metal between them. It is perfectly true, as stated in four of the claims and as asserted with much emphasis in the specification, that this added device effectively prevents any relative rotative movement of the cap and sleeve upon each other.

Coming now to the construction of the respondent, which it is claimed infringes the fourth claim of the patent in suit.

This (respondent's) socket has been manufactured since 1909, under Patent No. 927,344, and it may most readily be described by reference to the following, Fig. 3 of the drawing, which was a part of the specification of the patent.

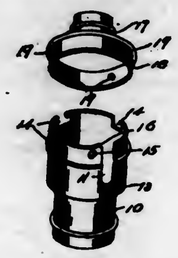


Fig. 3.

It will be seen from this drawing that instead of outwardly extending recesses in the flange of the cap, formed by slits and displacing of the metal, such as are in the petitioner's socket, respondent's cap has four inwardly projecting lugs (19), each of which is a separate piece of metal riveted to the flange. Each of these lugs is circular in outline, with a flat inner end or face and presents abrupt shoulders on opposite sides. In the upper edge of the sleeve are three bayonet-slots of the familiar form (14), so positioned that the studs on the cap may enter them when the sleeve is slipped into the cap. But when the sleeve has been telescoped, or pushed, into the cap so that the lugs have been pressed to the end or bottom of the longitudinal part of the bayonet slots (14) rotation of the sleeve is obviously necessary to bring them into the transverse parts of the slots, so that the two members will be locked against longitudinal separation. (No such rotative movement of the two members is mentioned in

the patent in suit, it is expressly provided against in petitioner's second patent, and it is not possible in its commercial socket.)

This rotative movement accomplishes a second result.

Reference to the figure, *supra*, shows a longitudinal slot in the sleeve, which in the key-socket affords a passage for the key, but in the keyless socket is narrower, and serves only to render the sleeve compressible. To the left of this slot in the sleeve is cut a round hole (15) so positioned that when three of the lugs in the cap are brought by the rotative movement to the ends of the transverse parts of the bayonet-slots the fourth stud will snap into the hole (15). This hole (15) is placed in such a relative position that when the three lugs enter the longitudinal parts of the bayonet slots, the fourth stud rides upon the metal near the edge of the slot in the sleeve, and to facilitate this movement the corner of the slot (16) is bent slightly inward. Thus the adjustment of the studs in the cap is practically a universal adjustment between the cap and shell, so that if any one lug is in position to enter any bayonet-slot two others will be in position to enter the other bayonet-slots and the fourth will be in a position to enter the hole (15) when the sleeve and cap have been so pressed together that the (three other) studs have reached the ends of the longitudinal part of the bayonet-slots and the rotation described of the one upon the other has been completed. A slight compression of the sleeve suffices to release the members when desired.

This description shows that the structural features of the two sockets are strikingly different. Instead of slits and outwardly-extending recesses in the cap of the one there are inwardly-extended studs riveted to the cap of the other. And instead of slits and outward projections of the sleeve to lock by snap action with recesses in the cap against longitudinal movement in the one, there are the bayonet-slots in the sleeve to lock with studs in the cap of the other to accomplish the same result with out snap action. But these different constructions not only differ radically in structural features but they do not function in the same manner, for locking against longitudinal movement in the one is by snap action upon direct longitudinal thrust of the sleeve into the cap, while the other requires first a longitudinal movement or thrust, and then a rotative movement, without which it is entirely ineffective, whereby it locks against longitudinal movement without snap action.

But it is argued that the infringement lies especially in the locking-hole (15) in respondent's socket and the associated lug which operate by snap action and afford a positive lock against rotation of the two members on each other.

The sufficient answer to this is that the patent in suit makes no suggestion of a lock against the rotative movement of the cap and sleeve on each other and contains no disclosure providing for it, but, on the contrary, because the beveled sides which are required by claim 4, for the projections on the sleeve permitted such movement, a subsequently-patented addition was added to prevent it. The petitioner cannot read into the patent in suit the additional slot in the cap and the additional projection on the sleeve of patentee's second patent, and without them there is no lock against rotative movement in the socket of the first patent to be infringed by the stud snapping into the locking-hole of the sleeve of respondent's socket.

This is sufficient to dispose of the case, but we also fully agree with the circuit court of appeals that the prior art, the file-wrapper and the second patent to the same patentee, No. 916,812, *supra*, require that the expressions in the fourth claim "telescopically received" and "telescopically applied" must be restricted to a direct longitudinal movement or thrust of the sleeve into the cap and that for this reason the construction of respondent requiring a rotary movement to render it effective, does not infringe that of the petitioner.

In the application for the patent in suit this fourth claim, originally the seventh, read as we have quoted it omitting the words in italics. In this form it was promptly rejected by the Patent Office on reference to the Oetting patent, No. 642,825, and to the Kenney patent, No. 712,686, and it is clear that the chief concern of the applicant thereafter was to distinguish his construction from that of Kenney, which is very similar to that of respondent. The Kenney socket has lugs in the cap and bayonet-slots in the sleeve, to lock against longitudinal movement, as respondent's socket has, and also slots with open ends and locking-holes similarly placed in the sleeve to lock against rotary movement when the lugs in the cap engage with them. The chief difference between the Kenney and respondent's socket is that in Kenney the lug passes down the slot to a position opposite the locking-hole and then with the rotary movement mounts and rides over the narrow strip of metal—"the bridge"—into the hole, while in the respondent's socket the lugs having plain faces ride on the metal near to the edge of the slot during the longitudinal movement and from that position pass into the locking-holes with the rotative movement.

When his application was rejected by the Patent Office on reference to the Kenney patent thus described, the applicant, without objection or appeal, amended his claim seven (numbering it four) by adding the words in italics and in his explanatory "remarks," when submitting these amendments, it was said:

Claim 4, originally 7, is now *drawn to a specific structure*, having advantages not found in either of the references cited. By transversely slitting the sheet metal shell and displacing the wall on one side of said slit to form a beveled or inclined projection the parts are permitted to be applied to each other *by simply inserting one within the other*, without manually compressing the inner member.

And again—

Kenney's device is adapted to *unlock by simply rotating one member upon another in the same manner that the parts are locked together*, no manual compression of the inner member being necessary.

Thus the patentee, in order to avoid infringing Kenney's construction, voluntarily restricted himself to a "specific structure" operative when the

sleeve was "simply" inserted in the cap, without suggesting any rotary movement whatever, but, on the contrary, by his reference to Kenney as locking and unlocking by "simply rotating one member upon the other," clearly implying that no such rotary movement was necessary in the adjustment of his socket. Having thus narrowed his claim against rotary movement in order to obtain a patent the patentee may not by construction, or by resort to the doctrine of equivalents, give to the claim the larger scope which it might have had without the amendments, which amount to a disclaimer of rotation as an operative feature of his device. (*Shepard* v. *Carrigan*, 116 U. S., 593, 598; *Hubbell* v. *United States*, 179 U. S., 77, 80.)

But that no rotary movement was implied in the use of "telescopically received" and "telescopically applied" in the patent in suit is further unmistakably shown by the frequent use of the same or equivalent expressions in the specification and claims of patentee's later patent, No. 916,812, *supra*, in which claims 1, 3, 13 and 14 relate almost wholly to an improvement which renders rotation of the members one upon the other impossible and which petitioner added to the construction of the patent in suit before putting the sockets upon the market. That the inventor did not intend to claim, and that he certainly did not disclose, that any such rotary movement was necessary in his socket as was required to render the socket of the respondent effective, is, we think, for these reasons, so clear that it is not necessary to consider the dictionary definitions of the words used, upon which the circuit court of appeals, with sound reason, relied in reaching this same conclusion.

For the reasons thus elaborated, we conclude that the socket of the respondent does not infringe the fourth claim of the patent in suit because there is no claim made therein of a lock against rotative movement of the cap and sleeve upon each other, and also because the file-wrapper and the subsequent patent show that the disclosure is, and was intended to be, limited to a construction operative by direct longitudinal movement or thrust without such rotative movement.

The contention, pressed strenuously upon our attention, that the added open slot in the cap and projection on the sleeve provided for in the second patent were devised simply to secure the alinement of the projections and recesses of the first patent in making telescopic application of the two members to each other, is not convincing in the presence of the fact that claims 1, 3, 13 and 14 of the second patent are devoted almost wholly to claiming that this improved construction is intended "to prevent relative rotative movement" of one member upon the other, while only claims 11 and 12 refer, quite incidentally, to what is now claimed to be the chief function of the added parts, that of a guide to the positioning of the recesses and projections of the first patent with reference to each other. Without a guide, the difficulty should not be very great of alining projections and recesses distant from each other but a fraction of an inch when the edges of the cap and sleeve are in contact. The constructions held by the Circuit Court of Appeals of the Second Circuit to infringe the patent in suit, were so essentially different from that of the respondent that we regard discussion of them as quite unnecessary.

It results that the decree of the circuit court of appeals as to claims 1 and 4 must be affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Ohio.) The Coey patent, No. 1,019,759, for improvements in skelp-charging apparatus, *Held* anticipated and invalid. *Republic Iron & Steel Co.* v. *Youngstown S. & T. Co.*, 272 Fed. Rep., 386.

(U. S. C. C. A. Ohio.) The Bedell patent, No. 1,012,235, for furnace-charging apparatus, consisting of the combination, with a loading-table and plate-elevating mechanism, of a rotary magnet-wheel, a circular magnetic coil, and means for conducting current to the coil, *Held* valid, but not infringed by a device in which the plates are fed manually and not by the use of any mechanism. *Republic Iron & Steel Co.* v. *Youngstown S. & T. Co.*, 272 Fed. Rep., 386.

(U. S. C. C. A. N. Y.) The Hewitt patents, No. 781,001, claim 1, and 781,002, claim 3, for the means and methods of amplifying variable electric currents by introducing therein an inclosing gas or vapor conducting medium, do not cover an audion-amplifier using the De Forest grid, though a minute quantity of air is left through which the variable current passes, and therefore the owner of those patents is not entitled to royalties on the audion-amplifier used by a licensee who agreed to pay royalties on devices operating in accordance with the patents. *Hewitt* v. *American Telephone & Telegraph Co.*, 272 Fed. Rep., 392.

(U. S. C. C. A. N. Y.) The Hewitt patents, Nos. 1,120,949, claims 1, 7, 11, 13, 18, 19, and 1,121,350, claims 2–4, the essential element of which is a shield charged with an electric potential inserted in a vapor conductor near one electrode for the purpose of resisting the establishment of a current in one direction, and thereby rectifying an alternating current, do not cover an audion-amplifier in which there is a grid alternately charged for the purpose of affecting the electric field between the filament and the plate for the purpose of amplifying a variable current, so that a user of the amplifier is not required to pay royalties to the patentee under a license requiring him to pay such royalties for any device operating in accordance with the patents. *Hewitt* v. *American Telephone & Telegraph Co.*, 272 Fed. Rep., 392.

(U. S. D. C. Mo.) The Luten patents, No. 802,004, for a method of constructing arches, and No. 1,106,880, for falsework used in the support of arches, etc., during construction, *Held* invalid on their face for want of invention or patentable novelty. *Luten* v. *Kansas City Bridge Co.*, 272 Fed. Rep., 533.

Patents Nos. 1,385,351 to 1,385,976.

THE
OFFICIAL GAZETTE
OF THE
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Nolan Act—Reciprocity of Spanish Laws Recognized.

(Order No. 2,679.)

Department of the Interior,
United States Patent Office,
Washington, D. C., July 21, 1921.

Notice is hereby given that the laws of Spain are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan act of March 3, 1921, (41 Stat. L., 1313,) and that consequently all the privileges specified in said act will be extended to its subjects.

THOMAS E. ROBERTSON,
Commissioner.

Nolan Act—Reciprocity of Canadian Laws Recognized.

(Order No. 2,681.)

Department of the Interior,
United States Patent Office,
Washington, D. C., July 23, 1921.

Notice is hereby given that the laws of Canada are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan act of March 3, 1921, (41 Stat. L., 1313,) and that consequently all the privileges specified in said act will be extended to British subjects domiciled in Canada.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notice.

Department of the Interior,
United States Patent Office.
Washington, D. C., July 21, 1921.

Ella Virginia Cameron, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Ralph H. Estabrook, of 10 Lincoln street, Fitchburg, Mass., for registration of a trade-mark and trade-mark registered May 9, 1893, No. 22,996, to Ella Virginia Cameron, of 753 Third avenue, New York, N. Y., and a notice of such declaration sent by registered mail to said Ella Virginia Cameron at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Ella Virginia Cameron, her assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the Official Gazette for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Remittances to the Patent Office.

Checks should be certified. Cash should be registered; if by ordinary mail at risk of sender. Postage stamps not receivable.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Mark section will include: Trade-Marks published under the act of 1905; Trade-Marks registered under the act of 1905 and under the act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

APPLICATIONS UNDER EXAMINATION.

Condition at Close of Business July 16, 1921.

Room No.	Divisions and subjects of inventions.	Oldest new application and oldest action by applicant awaiting office action.		No. of applications awaiting action.
		New.	Amended.	
314	1. Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders	Feb. 26	Mar. 11	686
128	2. Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Oct. 18	Dec. 13	1,525
175	3. Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 18	Nov. 5	719
234	4. Conveyers; Conveyers, Fluid-Current; Elevators; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 19	Mar. 16	1,563
167	5. Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 1	Dec. 17	754
318	6. Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 5	Apr. 18	1,006
312	7. Games and Toys; Optics; Photography; Velocipedes	Feb. 5	Mar. 28	1,469
131	8. Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 5	June 3	603
221	9. Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Oct. 14	June 7	816
295	10. Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 4	May 4	1,185
154	11. Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Apr. 1	Apr. 30	381
222	12. Machine Elements	Dec. 1	Apr. 19	1,061
329	13. Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 7	Apr. 6	1,580
323	14. Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Oct. 8	May 27	893
308	15. Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 2	Jan. 5	1,631
111	16. Radiant Energy; Telegraphy; Telephony	Sept. 8	Dec. 27	1,498
307	17. Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Dec. 16	Mar. 24	841
229	18. Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 7	Dec. 30	1,624
236	19. Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 8	Feb. 25	900
179	20. Artificial Body Members; Builders' Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 1	Mar. 2	1,217
212	21. Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Nov. 8	Apr. 11	532
249	22. Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices	Mar. 25	May 4	423
217	23. Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Nov. 30	Apr. 5	833
144	24. Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Dec. 27	Apr. 9	877
315	25. Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	May 12	May 20	260
105	26. Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Dec. 15	Feb. 15	759
214	27. Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Feb. 7	Mar. 29	1,159
225	28. Internal-Combustion Engines	Dec. 1	Mar. 2	1,215
147	29. Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Dec. 27	May 4	723
152	30. Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines	Feb. 2	May 19	1,032
172	31. Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Sept. 1	Nov. 1	2,051
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70	33. Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 28	Mar. 11	764
304	34. Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	May 16	May 27	283
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378	38. Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Walls.	Feb. 12	Feb. 24	1,034
220	39. Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 1	Sept. 17	1,768
273	40. Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 2	Feb. 19	2,072
125	41. Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Dec. 22	Mar. 26	887
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332	46. Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 16	Feb. 25	965
264	47. Brakes; Clutches; Elevator; Fluid Pressure Brake and Analogous Systems	Nov. 16	Mar. 1	1,019

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DIRECTORY OF THE UNITED STATES PATENT OFFICE.

JULY 21, 1921.

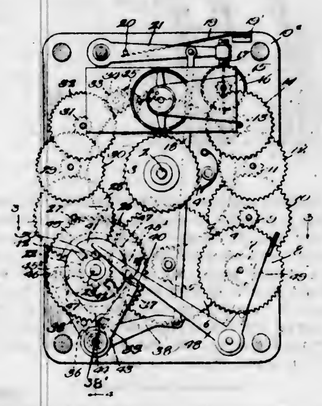
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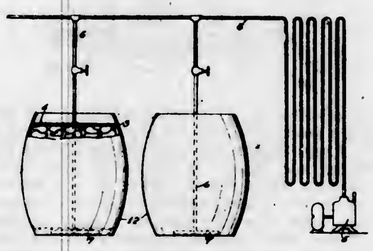
GRANTED JULY 26, 1921.

1,385,351. SPRING-MOTOR. KARL R. AKERLUND, Chicago, Ill. Filed Dec. 14, 1916, Serial No. 136,943. Renewed Jan. 2, 1920. Serial No. 349,091. 17 Claims. (Cl. 58—46.)



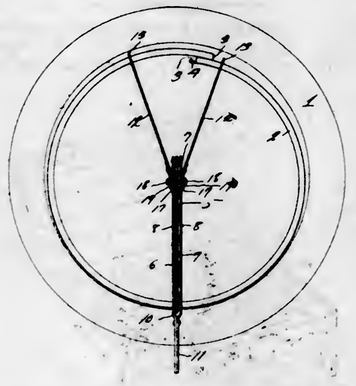
1. The combination with a primary motor; of a brake for normally checking the operation of the primary motor; a secondary motor which includes a load operating spring with which the first motor is in winding relation; and mechanism for effecting the release of the brake and which is inclusive of a lever connected with the brake, an arm structure, a spring connecting the arm structure with the lever, and a notched disk driven by the secondary motor and in the notch of which a portion of said arm structure may be received to reduce the tension of said spring upon the brake.

1,385,352. PROCESS OF PREPARING MALTED FOOD PRODUCTS. JOHN W. ALLEN, South Omaha, Nebr. Filed Nov. 6, 1919. Serial No. 336,024. 2 Claims. (Cl. 99—11.)



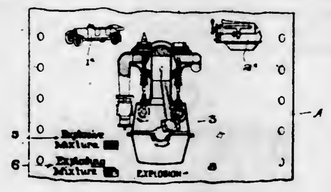
1. The herein described process of preparing meats which consists in treating meats in a pickle, and in simultaneously treating the meats while in the pickle with a malt-containing substance.

1,385,353. DEMOUNTABLE-RIM CONTRACTOR. ANDREW ANDERSON and CHARLES BROWN, Rock Springs, Wyo. Filed Apr. 29, 1920. Serial No. 377,591. 1 Claim. (Cl. 157—1.)



A rim contractor comprising an operating lever having spaced arms, a rim engaging arm having one of its ends pivoted to the end of the operating lever and disposed between the arms thereof, arms pivoted on pins extending outwardly from the sides of the arms of the operating lever, said pivoted arms being bent at their pivoted ends and having elongate slots in the bends thereof for the reception of the outwardly extending pins, said pins being provided with heads spaced from the pivoted arms, springs interposed between the heads of the pins and the outer faces of the pivoted arms, said slots and springs being so placed and related that the arms will be held spread when the pins are at their ends of the slots and allowed to rest against the handle when the pins are at the outer ends of the slots.

1,385,354. EDUCATIONAL FILM. FREDRICK A. AYRES, Sterling, Colo. Filed Nov. 7, 1918. Serial No. 261,513. 5 Claims. (Cl. 35—12.)



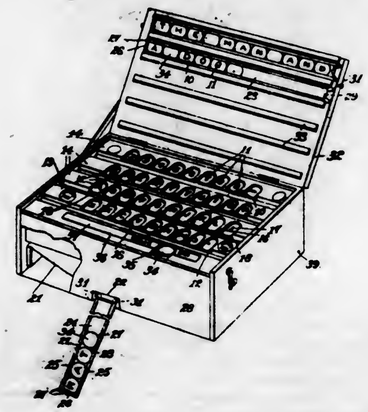
1. An educational device for depicting the various phases of an actuating medium for motors comprising a series of supports carrying pictures or images and displaying a color scheme to demonstrate the cause and effect of the actuating medium, the colors changing in subsequent pictures to depict the various phases and changes in the actuating medium.

1,385,355. PILLOW OR LIKE OBJECT. CHARLES S. BANKS, Manila, Philippine Islands. Filed Nov. 7, 1919. Serial No. 336,361. 2 Claims. (Cl. 5—15.)



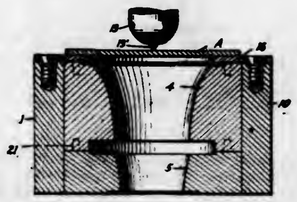
1. As a new article of manufacture, a pillow comprising three sections, the two end sections being identical and including relatively thick portions filled with non-compressible material, and a relatively thin central section located between and connected to the end sections and filled with soft yielding material.

1,385,356. EDUCATIONAL TYPEWRITER-KEYBOARD DEVICE. HARRY BATES, New York, N. Y. Filed Jan. 24, 1919. Serial No. 272,947. 18 Claims. (Cl. 35—9.)



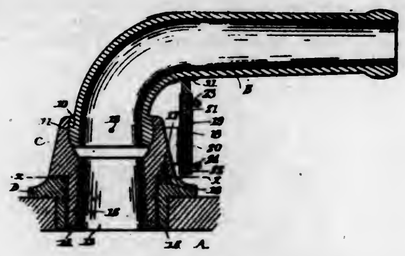
1. A device of the character described, comprising a font of key-simulating spelling tablets bearing normally readable letters and characters thereon, and a set of magazines in each of which tablets having like letters or characters thereon are normally stored, said magazines being so related, each with respect to the others, as to position the topmost exposed tablets therein in a relative arrangement corresponding with the relative arrangement of the keys of a typewriter.

1,385,357. METHOD OF MAKING PISTON-PINS. DAVID H. BELLAMORE, New York, N. Y., and THOMAS I. S. BOAK, East Orange, N. J., assignors to Standard Ordnance Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 22, 1919. Serial No. 319,130. 9 Claims. (Cl. 29—156.5.)



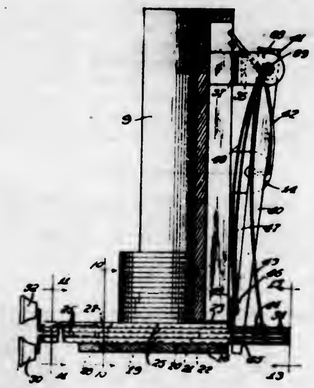
1. The process of making piston pins from a flat blank which consists in consecutively forcing said blank through dies of successively diminishing sizes to impart an elongated cylindrical form thereto, and thereafter hardening and tempering the cylindrical blank thus formed and finishing the surface thereof.

1,385,358. TONE-ARM. JOHN WESLEY BOOTH, Trenton, Ontario, Canada. Filed Mar. 10, 1920. Serial No. 364,707. 3 Claims. (Cl. 274—23.)



1. A resilient support for pivotally mounted tone arms, comprising a cylinder, a plunger slidably mounted in one end of said cylinder to project therefrom, a plug closing the opposite end of said cylinder and slidably mounted therein, a plunger projecting spring confined between said plunger and plug, said plug being slidable in the cylinder relative to the plunger to vary the tension of the intervening spring, and coöperating means carried by said plug and cylinder for supporting the plug in the cylinder and locking it in adjusted position therein.

1,385,359. SELECTIVE CHANGE-MAKER. MAX C. BRUHN and GEORGE F. MCGILL, Chicago, Ill. Filed July 18, 1918. Serial No. 245,532. 2 Claims. (Cl. 133—4.)



1. A selective change maker comprising a coin tube for holding a stack of coins of the same denomination, a plurality of superimposed apertured ejectors slidably disposed therebelow and adapted to receive the lowermost coins in said tube seated therein, means on said ejectors for selectively operating the same to cause the ejection of one or more coins from said tube by a single operation of one of said means, a shaft mounted on the back of said coin tube, a lever pivoted thereon and engaging said ejectors, a main spring mounted on said shaft for automatically returning the ejectors to normal position after the same have been operated, and auxiliary springs on said shaft and engaging a number of said ejectors to assist in returning the same to normal position.

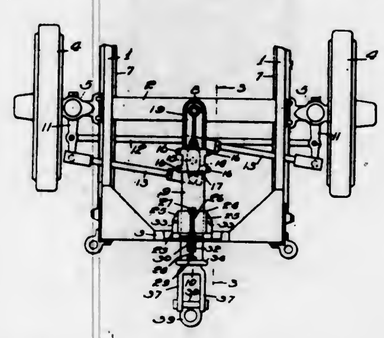
1,385,360. CHANGE-MAKER. MAX C. BRUHN and GEORGE F. MCGILL, Chicago, Ill. Filed July 31, 1918. Serial No. 247,550. 11 Claims. (Cl. 133—5.)



1. A change maker comprising a base section, a coin tube section, a plate disposed transversely across the rear wall thereof, and spaced parallel members integral with the base section for receiving said plate therebetween to hold the sections engaged in operating position.

9. A change maker adapted to be readily manually assembled and taken apart, including in combination a base section, a slotted back plate integrally formed thereon, members integral therewith, a locking mechanism removably engaged with said back plate, a coin tube section removably mounted on said base section, means thereon projecting between said members, and ejecting mechanisms on said base section adapted to be locked by said locking mechanism.

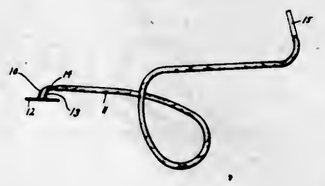
1,385,361. STEERING AND COUPLING CONNECTIONS FOR TRAILER-VEHICLES. CHARLES G. CLEMENT, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a Corporation of Wisconsin. Filed Apr. 16, 1919. Serial No. 290,420. 19 Claims. (Cl. 280—33.5.)



1. In a vehicle the combination with a vehicle frame and a fixed axle having steering yokes, steering knuckles pivoted to said yokes, arms fast to said knuckles and tie bar connecting the outer ends of said arms and thus maintained generally parallel with said axle, of steering arms fast to said knuckles, a draft bar pivoted to the vehicle frame, a drag rocker pivoted centrally of its length to said draft bar and extending substantially parallel to said bar when the vehicle moves in a straight line, and drag links connecting the opposite ends of said drag rocker to the outer ends of said steering arms.

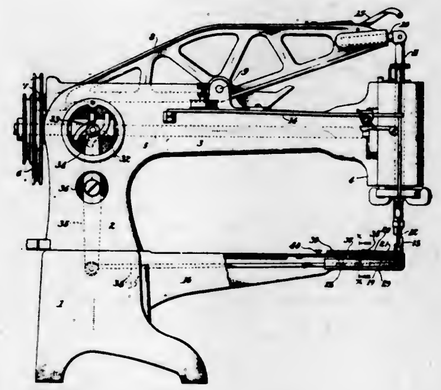
1,385,362. LACING. EDGAR I. COOMBS, Providence, R. I., assignor of one-half to Walter E. Easterbrooks, Providence, R. I. Filed Jan. 12, 1920. Serial No. 350,909. 2 Claims. (Cl. 24—140.)

2. A lacing comprising a tubular shank, having an enlarged and substantially flat head, said shank being adapted to be inserted in an eyelet and the head thereof to engage the edge of the eyelet to maintain the shank in position, said shank being curved to have its free end extend substantially at right angles to the axis of said



head and around the other side of the eyelet opposite said head, a flexible lacing having one end suitably secured in said tubular member.

1,385,363. SHUTTLE-DRIVING MECHANISM FOR SEWING-MACHINES. HERBERT CORRALL, Helensburg, and BERTRAM AMBROSE STEVENS, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed May 14, 1921. Serial No. 469,680. 6 Claims. (Cl. 112—191.)

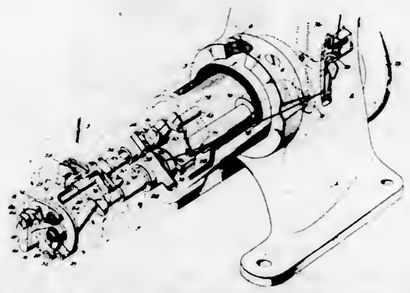


1. In a sewing machine, in combination, a frame including a work-support, stitch-forming mechanism incorporated in said frame including a reciprocating needle, a loop-taker, a main-shaft and connections for operating the needle and loop-taker in timed relation to one another, a removable housing secured to said work-support and carrying the loop-taker and certain of said connections whereby the loop-taker and its operating connections may be removed from and replaced as a unit in the machine while preserving the timed relation of said parts.

1,385,364. TUBULAR-ARM SEWING-MACHINE. ALBERT H. DU VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Dec. 4, 1917. Serial No. 205,316. 40 Claims. (Cl. 112—200.)

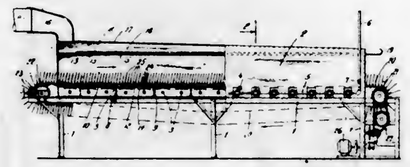
1. In a sewing machine, a frame having a tubular work-arm around which is a clear space facilitating manipulation of the work, a single rotating shaft only extending

through the junction of the arm and frame, a feed dog, a looper, means for imparting four motions to said feed-



dog and endwise movements to said looper from said rotating shaft, said means being located entirely within the tubular arm.

1,385,365. PHOTOGRAPHIC DRYING-MACHINE. ALEXANDER W. DREYFOOS, Mount Vernon, N. Y. Filed Oct. 28, 1919. Serial No. 333,939. 4 Claims. (Cl. 34—12.)



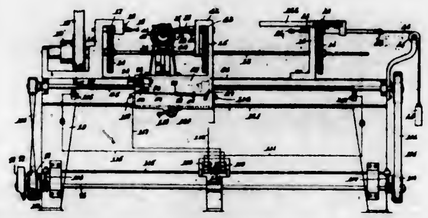
1. In a machine of the character described, a drying chamber partly open at both ends and having an outlet at its top, a partition extending lengthwise in the upper portion of the chamber and having openings at spaced points, means for adjusting the areas of said openings, heating means disposed in the lower portion of the chamber, an endless conveyer having one of its reaches extending lengthwise through the chamber above the heating means, and a series of inclined plate holders carried on the conveyer.

1,385,366. BURNER FOR STEAM-AUTOMOBILES. FRANCIS I. DU PONT, Wilmington, Del., assignor to Delaware Chemical Engineering Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 20, 1918. Serial No. 263,279. 10 Claims. (Cl. 158—31.)



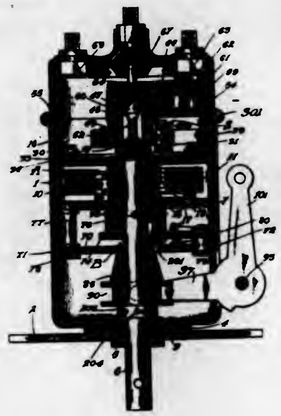
1. In a hydrocarbon fuel burning apparatus for steam automobiles, the combination, with the furnace, of a burner plate within the furnace, and a vaporizer within the furnace and having a portion extending to the exterior thereof and adapted to be heated either by means of said burner plate or by external means, there being an opening to permit said heat by external means so placed that the flame used in said external heat will also serve to ignite the main burner as soon as fuel is turned on.

1,385,367. STRING-TRUING MACHINE. GEORGE N. EINAELE, Cedar Lake, Ind. Filed Jan. 22, 1918. Serial No. 213,272. 27 Claims. (Cl. 69—6.)



1. A string truing machine comprising means for rotating a string about an axis extending longitudinally of the string; a cutting element arranged to contact with the string during rotation thereof; and means for effecting relative movement between said string and cutting element in a direction longitudinally of the string, substantially as described.

1,385,368. IGNITION-DISTRIBUTER. LAWRENCE ERICSON, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 14, 1917. Serial No. 148,666. 15 Claims. (Cl. 200—19.)

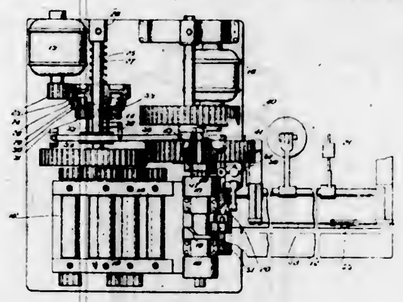


2. A device of the character described including a rotary element, a circuit controlling device rotatable with said rotary element, means for changing the angular relation between said rotary element and said circuit controlling device, said means including a conically shaped member slidable longitudinally of said rotary element and a pivoted member that controls the angular relation between the circuit controlling device and the rotary element.

1,385,369. CONTROL DEVICE FOR AUTOMATIC MACHINES. WALTER FRAZER, Elyria, Ohio, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 11, 1919. Serial No. 330,113. 2 Claims. (Cl. 164—49.)

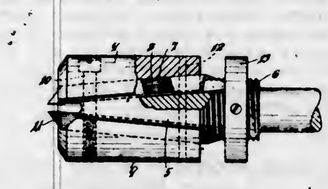
1. In a machine of the character described, the combination of stock feeding mechanism, a clutch therefor, a lever directly acting on said clutch for moving it to disabled position and a brake actuated by said lever for stopping said feed mechanism, an electro-magnet for throwing said lever to braking position, a cam shaft mechanism, a clutch

therefor, a stock cutter actuated by said cam shaft mechanism, detent mechanism normally holding said clutch for the cam shaft mechanism out of operation and movable to permit the clutch to act, an electro-magnet for operating



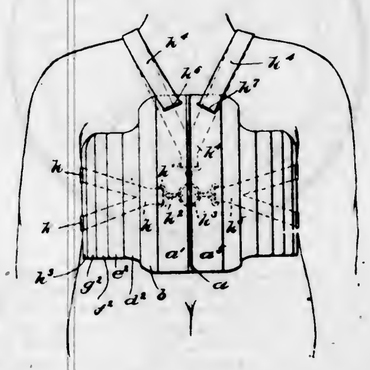
said detent mechanism and an electric switch in the path of the said stock having connections with both said magnets simultaneously to energize the same, whereby said magnets positively and independently control the respective mechanisms aforesaid.

1,385,370. EXPANSION-DRILL. DANIEL S. FOX, Deep River, Conn. Filed Aug. 14, 1919. Serial No. 317,514. 7 Claims. (Cl. 77—58.)



1. An expansion drill comprising a body having grooves on opposite sides extending diagonally each of the other, retaining plates removably secured to opposite sides of the body and having mating parts of said grooves therein, and means for securing the retaining plates in place.

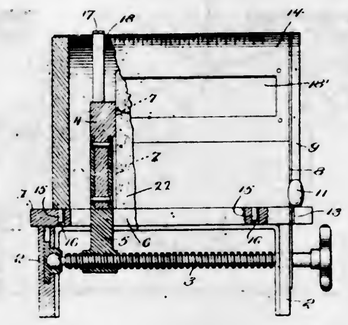
1,385,371. COLLAPSIBLE SHIELD. WILLIAM A. FRASER, Brookline, Mass. Filed Sept. 13, 1918. Serial No. 253,878. 13 Claims. (Cl. 89—36.)



1. A shield comprising a plurality of substantially flat members, adjacent members being movably joined together,

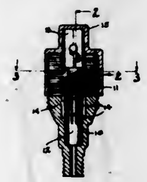
the joint permitting expansion and collapse of said members crosswise of the wearer, and permitting said members to be parallel when collapsed but permitting them to be out of parallelism when the device is expanded and the outer ends are pulled inwardly toward the wearer.

1,385,372. CHEESE-CUTTER. RICHARD C. GORHAM, Kirklin, Ind. Filed July 1, 1920. Serial No. 393,255. 1 Claim. (Cl. 31—68.)



In a device for vending an article of merchandise in portions, a base, a knife for severing said portions hinged to said base, said knife having two cutting edges, one of said edges lying substantially parallel with the base when the knife is at the end of a stroke, the other extending below the plane of the base.

1,385,373. GREASE-CUP. JOSEPH HECKENBACH, Chicago, Ill., assignor to Quality Hardware & Machine Company, Chicago, Ill., a Copartnership composed of Hilding Albert Laystrom, Carl Arthur Laystrom, and Jerry Anderson. Filed Oct. 25, 1920. Serial No. 419,354. 11 Claims. (Cl. 184—38.)

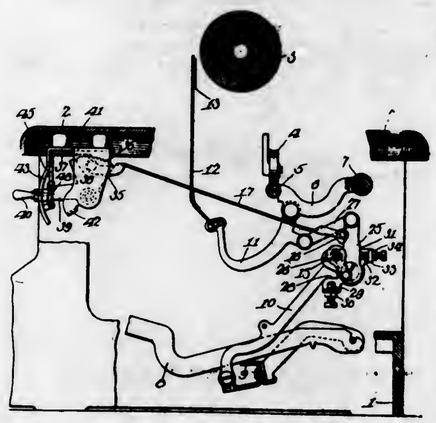


4. The combination of a perforated stud screw-threaded on its outer face, a cup screw-threaded to fit said stud, a tube located concentrically within said cup, a second tube located concentrically with respect to said stud and adapted to have snug engagement with said first named tube, and spring fingers cut out of the wall of one of said tubes adapted to engage the other tube for alining the cup and the stud with respect to each other at the time when the threads of said two members are passing into engagement with each other, substantially as described.

1,385,374. RIBBON-VIBRATOR. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed May 11, 1918, Serial No. 233,834. Renewed May 14, 1919. Serial No. 297,154. 22 Claims. (Cl. 197—157.)

1. In a typewriter, a ribbon vibrator shiftable for upper and lower case writing, an actuating member therefor always returnable to the same normal position, an operating link having a constant extent of oscillation, and a connection between the link and member comprising one

of a pair of connecting arms the other of which may be set at different angular positions with respect to the first



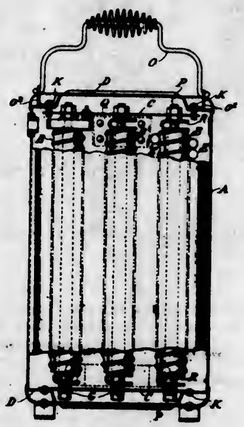
arm without moving either of the parts to which the first arm is connected to produce a variable movement of the member with the same movement of the link.

1,385,375. DISPLAY-RACK. WILLIAM T. HORMES, Govans, Md., assignor to Solomon Himmel, Baltimore, Md. Filed Dec. 11, 1918. Serial No. 266,249. 3 Claims. (Cl. 211—14.)



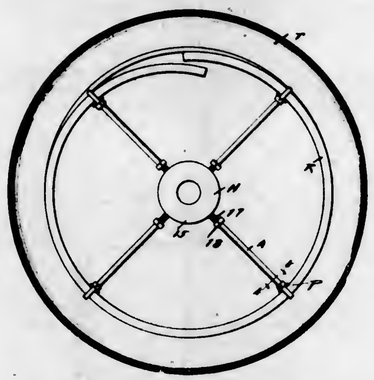
2. A display rack of the character described comprising an inclined supporting member provided with a plurality of openings, tubular members mounted in the respective openings, and arranged in parallel relation at an angle to the vertical, said tubular members being of a diameter somewhat greater than the diameter of a rolled umbrella, and means coöperating with said tubular members to cause umbrellas to assume substantially vertical positions when engaged therewith, whereby substantially small areas of an umbrella will engage contiguous portions of a tubular member on approximately opposite sides thereof located at the top and bottom respectively of said member.

1,385,376. ELECTRIC HEATER. LEE P. HYNES, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed Mar. 19, 1920. Serial No. 367,055. 5 Claims. (Cl. 219—34.)



1. An electric heater comprising uncoated heating coils, and an external casing therefor having an imperforate central body portion and stamped sheet-metal heads, said heads being cut on a series of parallel lines with the metal between the cuts bent at an angle to form diagonal chutes constituting extensions of the air conduit through the central body portion.

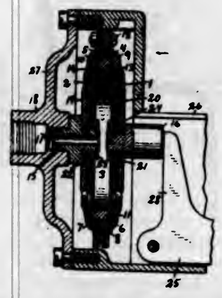
1,385,377. RIM CONSTRICTING AND EXPANDING DEVICE. JOHN LEWIS KALTREIDER and CHARLES FRANKLIN SHRYOCK, Hanover, Pa. Filed Oct. 28, 1919. Serial No. 333,977. 1 Claim. (Cl. 157—1.)



A rim contracting tool comprising a hub, arms having threaded engagement with the hub and extending radially from the same, flat plates carried by the outer ends of said arms and having their end portions formed with longitudinal slots, hooks having their rear portions pivoted within said slots, and springs secured to the under side of said flat plates and having their terminal portions contacting with the shanks of said hooks to secure the hooks in active or inactive position, the ends of said springs

being curved away from said hooks, each of said arms being adjustable independently of the other arms, whereby a portion of the rim may be contracted or expanded independently of the remaining portions of the rim.

1,385,378. PRESSURE MEMBER. GEORGE A. KNAAK, Milwaukee, Wis. Filed Apr. 9, 1919. Serial No. 288,850. 4 Claims. (Cl. 236—26.)



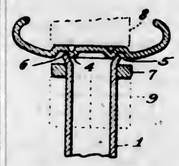
1. The combination in a pressure member, of a bearing member, a corrugated metal side, and a clamp member to clamp said side against said bearing member, said clamp member being provided with a curved surface and the side being substantially tangent to said curved surface and adapted to bend over the same to more remote points of substantial tangency.

1,385,379. ELECTRICAL CONDENSER AND METHOD OF MAKING IT. FRANZ KRATZ, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 26, 1917. Serial No. 144,646. 8 Claims. (Cl. 250—41.)



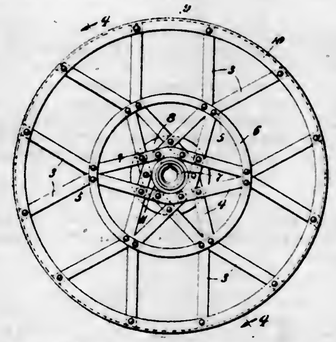
6. An electrical condenser having alternate bands of foil and dielectric, one of the bands of foil having a narrow laterally-projecting edge portion lying substantially flat against the side of the condenser and forming a side terminal therefor, the narrow projecting edge portion being of such width as to form a substantially continuous contact surface on the side of the condenser when pressed flat thereagainst.

1,385,380. METAL VEHICLE-WHEEL. LAURENCE S. LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed July 31, 1918. Serial No. 247,498. 7 Claims. (Cl. 301—66.)



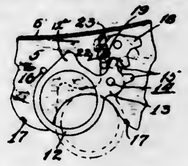
1. The method of making a metal wheel having tubular spokes combined with a metal rim consisting in providing the rim with an annular projection formed in a countersink, bringing the flared end of the spoke into engagement with said annular projection and welding them together, the upset metal due to pressure being received in the countersink.

1,385,381. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed May 6, 1919. Serial No. 295,222. 9 Claims. (Cl. 301—73.)



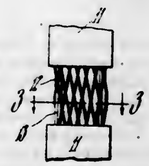
1. In a metal wheel of the character described, a spoke portion consisting of metal plates or strips slit and spread at their central part into elongated branches spread out and carried around the hub to form separate members disposed at opposite sides of the hub axis and bifurcated at both ends for attachment to the rim by the ends of the bifurcations.

1,385,382. PORTABLE CHANGE-MAKER. GEORGE F. MCGILL and MAX C. BRUHN, Chicago, Ill. Filed Mar. 19, 1918. Serial No. 223,403. 6 Claims. (Cl. 133—5.)



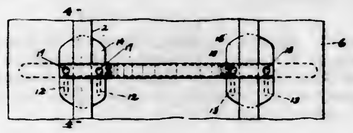
5. A change maker comprising a coin tube, an ejector ring pivotally mounted therebeneath, and having gear teeth and means engaging said gear teeth for swinging said ejector.

1,385,383. REINFORCEMENT FOR TIRE-BEADS. MELVON A. MARQUETTE, Springfield, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Original application filed Apr. 9, 1919, Serial No. 288,716. Divided and this application filed Dec. 10, 1919. Serial No. 343,725. 5 Claims. (Cl. 152—13.)



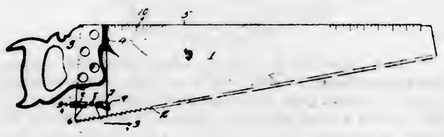
5. A reinforcement for the bead of a tire casing comprising a strip of diagonally woven material, and longitudinally extending reinforcing members embraced in the selvage edges thereof.

1,385,384. BRIEF-CASE. FRANK MASHEK, Chicago, Ill. Filed Aug. 23, 1920. Serial No. 405,351. 5 Claims. (Cl. 190—58.)



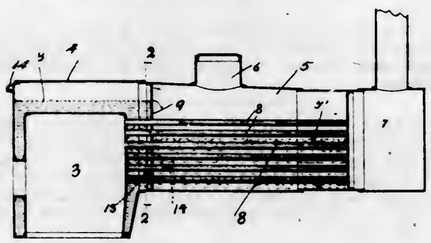
2. An article of the class described comprising a flexible telescopic carrying member; a flexible hinged flap inclosing said carrying member; a handle mounted on said flap; means whereby said flap may be adjusted to enlarge the carrying capacity of said carrying member; and coöperating means on the inner and outer side of said flap whereby said handle automatically adjusts itself to carrying position upon a change of depth of said case, substantially as described.

1,385,385. SAW. CHARLES O. MESSENGER, Astoria, Oreg. Filed Nov. 30, 1920. Serial No. 427,268. 2 Claims. (Cl. 7—13.)



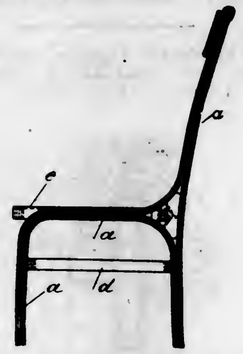
2. The combination with a handsaw having a graduated blade and a handle member, of a U-shaped clamping member carried by the rear edge of the saw blade and disposed beneath the handle member, the ends of the arms of the U-shaped member being in vertical alinement with the forward edges of the handle member on each side of the blade, said ends of the arms and forward edges of the handle member being right-angularly disposed in relation to the upper edge of the saw blade.

1,385,386. LOCOMOTIVE-BOILER. JOHN P. MONGAN, Minneapolis, Minn. Filed Aug. 22, 1918. Serial No. 251,023. 2 Claims. (Cl. 122—461.)



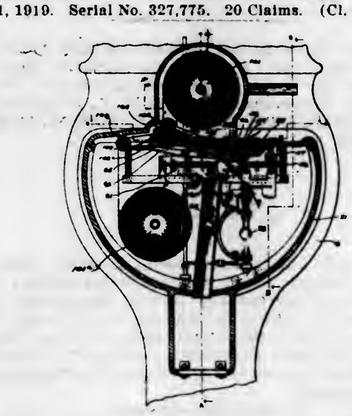
1. A combination with a boiler of the locomotive type, of a baffle plate applied within the boiler forward within the rear end of the flues and through which the flues are passed to the flue sheet of the fire-box, said baffle plate having a water passage above the level of the flues and above the top of the fire-box, whereby a higher level of water may be maintained in the rear compartment of the boiler than in the front compartment of said boiler, all of said flues being covered with water at the rear of said baffle plate, but certain of the upper flues, forward of said baffle plate, being above the water level in the front compartment of the boiler, so that they will be exposed in the steam chamber thereof.

1,385,387. WOODEN ARTICLE AND PROCESS OF MAKING THE SAME. GIUSEPPE MORANDI, Florence, Italy. Filed July 1, 1920. Serial No. 393,473. 2 Claims. (Cl. 155—186.)



1. The herein described process of constructing wooden articles, which consists in gluing together a plurality of layers of wood and bending the same into a plurality of units, securing said units together to form a single block having the general configuration of the finished article, and sawing said assembled block into a plurality of frame members.

1,385,388. TICKET-ISSUING MECHANISM. HUBERT A. MYERS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 1, 1919. Serial No. 327,775. 20 Claims. (Cl. 211—33.)

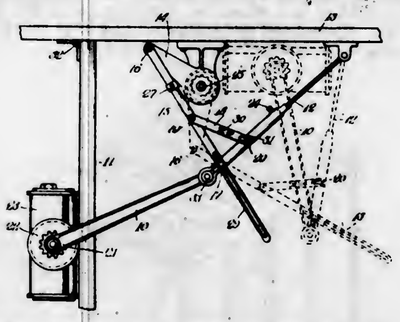


1. In a device of the character described, ticket-issuing mechanism comprising a slidable member, a pair of feed dogs connected therewith, plates having slots in which the heads of said feed dogs are guided, and pivoted guides arranged in said slots to control the position of the feed dogs during the sliding movement of said member.

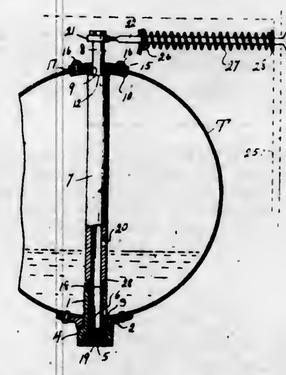
11. In a device of the class described, in combination, a ticket reel, a device for issuing tickets from said reel, a supplemental reel, and means acting automatically upon exhaustion of the supply of tickets from the first said reel to supply said issuing device from said supplemental reel.

1,385,389. DOOR-CONTROLLING DEVICE. LEWIS C. NORTON, Chicago, Ill., assignor to Norton Door Check Company, Chicago, Ill., a Corporation of West Virginia. Filed Dec. 8, 1919. Serial No. 343,337. 16 Claims. (Cl. 189—45.)

1. The combination of a door, a mechanism tending to close the door, a second mechanism which tends to hold the door open when the door is open and which tends to hold the door closed when the door is closed, and heat-controlled means whereby in case of fire, said second mechanism releases the door to permit it to close under the action of said first mechanism, and whereby said second mechanism will assist said first mechanism in the final closing movement of the door.



1,385,390. FUEL-TANK OUTLET. FRANK P. OUDERKIRK, Imperial, Nebr. Filed May 8, 1920. Serial No. 379,878. 2 Claims. (Cl. 158—46.5.)



1. In combination with a reservoir, a tubular casing extending therein, said casing being provided with a port within the reservoir, a rotatable tubular stem supported within the tank the inserted end portion of the stem and the inserted end portion of the casing being in telescopic relation, said stem being provided with a port registering with the port of the casing upon rotation of the stem in one direction and means coacting with the stem to automatically maintain the stem in a position with the port either in or out of register with the port of the casing, said stem being provided with a second port at all times in communication with the reservoir, the telescoping portions of the stem and the casing being threaded one upon the other, said casing and stem being provided with coacting means for limiting the rotation of the stem when the first port of the stem is out of register with the port of the casing.

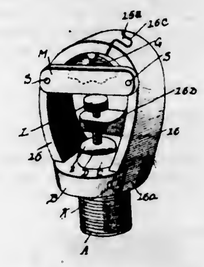
1,385,391. APRON. EMMA C. PHASE, Nantucket, Mass. Filed Oct. 22, 1920. Serial No. 418,673. 8 Claims. (Cl. 2—54.)

1. An apron of the kind described, elongated in shape to cover the shoulders and one arm only of the wearer and having at one end thereof an opening sufficiently large to admit the hand and fit around the wrist and having its



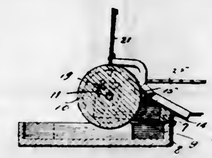
opposite end so shaped as to fit about the neck, and carrying means of fastening together its neck shaped ends.

1,385,392. SPRINKLER-HEAD. WILLARD CLARKE PENTY, Columbus, Ohio. Filed June 30, 1920. Serial No. 392,942. 1 Claim. (Cl. 169—39.)



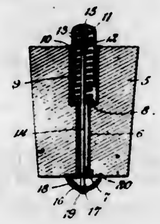
A sprinkler head comprising, a threaded sleeve having a valve seat formed at one end thereof, a head formed on said sleeve, a yoke carried by said head and comprising a stationary section fixed to the head and a movable section hingedly supported on said head for an outward swinging movement from the stationary section, said sections having interfitting ends, a deflecting cap carried by the stationary section and overlying said valve seat, a valve normally reposing on said seat, an arm formed on the movable section, a set screw adjustably mounted on said arm and engageable with said valve for retaining the same on said seat, studs formed on said sections, and a fusible bar removably fitted on said studs and spanning said sections for the purpose described.

1,385,393. EVAPORATING-PAN AND SKIMMER. EPHRIAM B. POOLE, Cordova, Ala. Filed Oct. 7, 1919. Serial No. 329,172. 3 Claims. (Cl. 127—9.)



3. The combination with an evaporating pan, of a carrier frame hinged thereto, a shaft mounted in the frame and movable therewith toward and away from the top of the pan, a plurality of skimming wheels carried by the shaft, means for holding the frame at different points of its adjustment, and a shedding trough for each wheel comprising a member having a perforated portion overhanging the pan and a member pivotally connected with the first member and disposed to receive skimmings from the wheel and discharge it to the first named member.

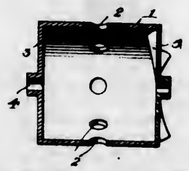
1,385,394. STOPPER FOR VACUUM-BOTTLES. ROBERT S. PORTER, San Diego, Calif., assignor of one-half to Edward G. Siggers, Washington, D. C. Filed July 27, 1920. Serial No. 399,370. 4 Claims. (Cl. 215—102.)



1. The combination with a one-piece compressible stopper having a central longitudinal bore, a bushing snugly fitting the entire length of said bore, a valve stem extending through the bushing, a valve on the lower end of the stem, and means for causing the valve to be seated on the corresponding end of the stopper free of the bushing, said valve being hollow whereby only its edge rests on the stopper.

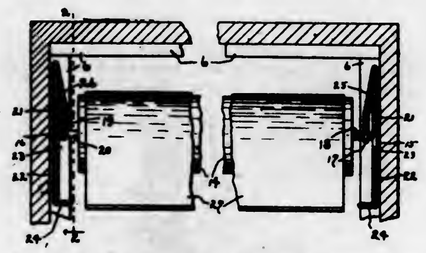
1,385,395. [WITHDRAWN.]

1,385,396. PULLEY. EVERETT E. RAYBURN, Greenview, Ill. Filed Aug. 31, 1920. Serial No. 407,124. 4 Claims. (Cl. 64—43.)



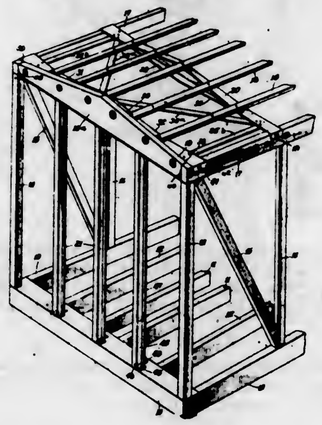
1. A hollow cylindrical pulley having air holes formed in its periphery and having one side wall shaped into a fan.

1,385,397. ROLLER-BRACKET FOR WINDOW-SHADES. RICHARD E. REESE, Omaha, Nebr., assignor of one-half to William McKinley, Omaha, Nebr. Filed Aug. 30, 1920. Serial No. 406,885. 1 Claim. (Cl. 156—24.)



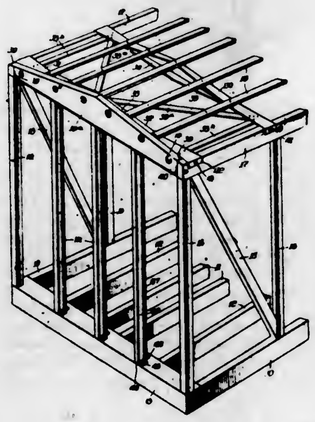
In roller brackets for window shades, said roller having pintles at its ends, a metallic strand approximately of M-shape, providing a pair of downwardly extending arms disposed in a single plane and providing a second pair of connected arms extending convergently outwardly of the plane of the first named pair of arms, the end-portions of the connected parts of the second pair of arms being bent toward one of said first named arms to provide a socket for receiving one of the pintles of the roller, said first named pair of arms being bent to form a pair of loops having terminal projections disposed in the horizontal plane of said socket.

1,385,398. CAR CONSTRUCTION. THOMAS NATHAN RUSSELL, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 26, 1914, Serial No. 814,519, now Patent No. 1,268,058, dated May 28, 1918. Divided and this application filed June 29, 1917. Serial No. 177,829. 7 Claims. (Cl. 105—411.)



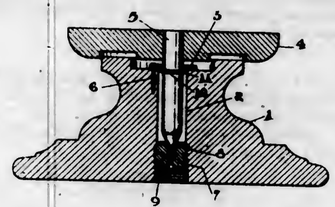
1. A car end framing construction comprising in combination, corner posts, metallic end posts, a metallic end carline secured thereto, a metallic roof carline to the rear of said end carline, and tie members connecting said end and roof carlines.

1,385,399. CAR CONSTRUCTION. THOMAS NATHAN RUSSELL, Chicago, Ill., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill., a Corporation of Illinois. Original application filed Jan. 26, 1914, Serial No. 814,519. Divided and this application filed May 27, 1918. Serial No. 236,741. 5 Claims. (Cl. 108—5.5.)



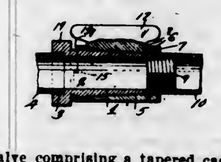
5. A car framing construction comprising the combination with the longitudinal side plates and the transverse exterior end member of a car body, of an interior truss frame connected to the exterior end member and to the longitudinal side plates for strengthening the car roof end

1,385,400. STEP-BEARING. RALPH R. SCHEIBE, Somerville, Mass. Filed Mar. 9, 1921. Serial No. 450,997. 3 Claims. (Cl. 64—25.)



1. A step bearing comprising a support having a vertical hole extending through the same; a ring secured to the upper side of the support about the hole, the opening in the ring being of less diameter than the hole in the support; a spindle passing through the ring and closely fitting in the same, said spindle having an annular groove formed therein below the ring; a plug screwed into the hole having a bearing formed in its upper end to receive the lower end of the spindle; and a divided spring retainer adapted to pass up between the spindle and the inner wall of the hole and engaged in the groove aforesaid.

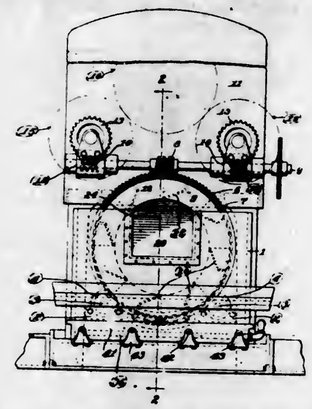
1,385,401. SLEEVE-VALVE. JOHN HENRY STOCKHOLDER, New Orleans, La. Filed Mar. 19, 1920. Serial No. 367,265. 1 Claim. (Cl. 251—9.)



A sleeve valve comprising a tapered casing, a rotatable sleeve shorter in length than the tapered casing rotatably mounted on the tapered casing, one end of the tapered casing extending beyond the rotatable sleeve and provided with threads, a lock nut threaded on said threaded end of the tapered sleeve and adapted to hold the rotatable sleeve in frictional engagement with the tapered casing and forming means for taking up wear incident to rotation of the sleeve thereby obviating regrinding, the other end of the tapered casing being provided with an integral wrench engaging portion for holding the same against rotation when the lock nut is being adjusted, means for connecting pipe lines to the ends of the tapered casing, ports carried in the walls of the tapered casing and the rotatable sleeve and adapted to be moved into and out of registration with each other, a handle member carried by the rotatable sleeve, said port in the tapering casing being upwardly disposed, an upwardly extending member having its lower end pivotally connected to the handle and a float connected to the upper end of the upwardly extending member and forming means whereby said ports will be moved into registration.

1,385,402. QUENCHING-MACHINE. OSWALD SCHLAUPITZ, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 2, 1920. Serial No. 349,128. 9 Claims. (Cl. 266—8.)

1. A quenching machine comprising a drum rotatable upon a horizontal axis, said drum being adapted to receive a quenching fluid in its lower portion and having openings in its opposite ends for receiving and discharging articles, a receiving device projecting into the discharge opening of said drum, said drum having a series of pockets located adjacent to said receiving device, said pockets having openings facing the direction of rotation through which said articles are received into said pockets and are discharged therefrom into said receiving device, the interior surface of said drum having a series of radially spaced plates extending from the receiving end thereof to the openings in said pockets and adapted to engage the articles to lift the same



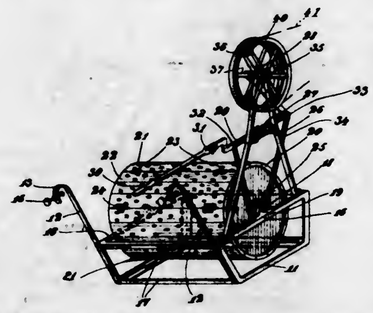
from the bottom of said drum, said plates being arranged to slope downwardly from the receiving end of the drum to the openings in the pockets on the upward moving side of the drum whereby the articles supported thereon are caused to slide off said plates into said pockets.

1,385,403. MACHINE FOR TREATING PHOTOGRAPHIC MOVING-PICTURE FILMS. CAMILLE A. SENTOU and ETIENNE JACQUET, Fort Lee, N. J., assignors to Sen-Jacq Film Print Co., Fort Lee, N. J., a Corporation of New Jersey. Filed Nov. 8, 1920. Serial No. 422,719. 9 Claims. (Cl. 95—94.)



1. In a machine of the class described, means for propulsing a film, means for forming a loop in the film, and means associated with the film propulsion means and operated from the loop forming means to vary the speed of the film so as to maintain substantially constant the length of the loop.

1,385,404. WASHING-MACHINE. PATRICK J. SKEFFINGTON, New York, N. Y. Filed Jan. 11, 1921. Serial No. 436,412. 7 Claims. (Cl. 68—18.)



5. In a clothes washing device, a perforated, rotatably mounted clothes receiver, a chain wheel associated there-

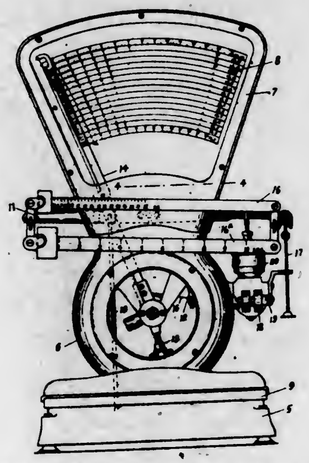
with, an oscillating lever, a chain depending therefrom and engaging said chain wheel, and means for facilitating the operation of said lever.

1,385,405. MICROMETER. ALFRED TANGEN, Detroit, Mich. Filed Sept. 8, 1920. Serial No. 408,983. 3 Claims. (Cl. 33—164.)



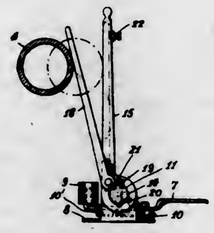
1. A micrometer comprising a micrometer screw and a micrometer nut in which said screw is threaded, the walls of the micrometer nut being split, lugs carried by said micrometer nut, said lugs being disposed in slots of an adjustable graduated collar, said lugs extending beyond the outer walls of the adjusted graduated collar and disposed in an annular channel of a contractible micrometer clamp, said contractible micrometer clamp forming means whereby when the clamp is contracted the threads of the micrometer screw and the micrometer nut will be bound and locked together, and means for contracting the contractible micrometer clamp.

1,385,406. WEIGHING-SCALE. HENRY THEOBALD, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Mar. 29, 1916. Serial No. 87,412. 14 Claims. (Cl. 265—61.)



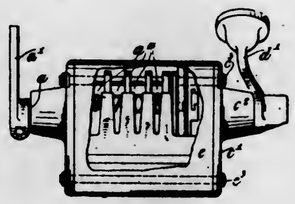
1. In a scale, and in combination with the weighing mechanism thereof, a fixed chart having a plurality of rows of weight indications thereon, said rows having their zero indications angularly spaced progressively out of alinement with each other, and a swinging index hand coöperating with all of said rows and bearing indications distinguishing the several rows by the extent of the displacement of their zero indications.

1,385,407. AUTOMATIC STOP MECHANISM FOR TALKING-MACHINES. HAROLD L. TUNISON, Upper Montclair, N. J., assignor to Frank L. Dyer, Montclair, N. J. Filed June 17, 1919. Serial No. 304,754. 6 Claims. (Cl. 192—116.)



1. In a stop mechanism for talking machines, the combination with the tone-arm, of a spring actuated brake, a trigger for locking the brake in its widthdrawn position, means whereby the trigger may be released by the tone-arm traversing the record, and means coöperating with the tone-arm for automatically determining the releasing point of said trigger, substantially as set forth.

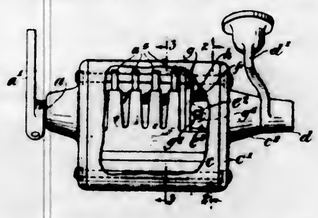
1,385,408. COUNTING-MACHINE. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Feb. 20, 1920. Serial No. 360,248. 8 Claims. (Cl. 235—144.)



1. In a resetting mechanism for a numbering machine, the combination of a resetting shaft, an actuating shaft, a planetary gear, oscillated by the actuating shaft about the axis of the latter and in operative engagement with the resetting shaft, and a non-rotating member in engagement with the planetary gear, whereby oscillation of the planetary gear on its own axis and of the resetting shaft on its axis is effected.

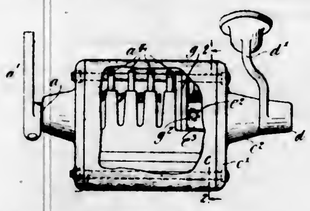
1,385,409. COUNTING-MACHINE. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 15, 1920. Serial No. 372,085. 6 Claims. (Cl. 235—144.)

1. In a resetting mechanism for a numbering machine, the combination of a toothed resetting shaft, an actuating shaft in line with the resetting shaft, a pivotally mounted gear segment in mesh with the resetting shaft, means to support the gear segment and means whereby



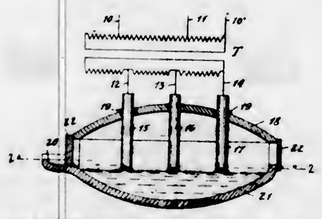
through oscillation of the actuating shaft the gear segment is oscillated on its pivot.

1,385,410. COUNTING-MACHINE. CURTIS HUSSEY VEEDER, Hartford, Conn., assignor to The Veeder Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Apr. 20, 1920. Serial No. 375,198. 3 Claims. (Cl. 235—144.)



1. In a re-setting mechanism for a numbering machine, the combination of a toothed re-setting shaft, an actuating shaft, and a pivotally mounted gear segment engaging the re-setting shaft, the actuating shaft and the gear segment having a pin and slot engagement whereby the gear segment is oscillated through oscillation of the operating shaft.

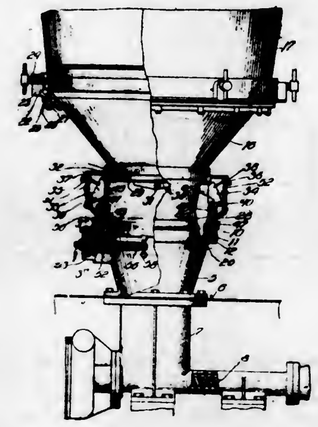
1,385,411. ELECTRIC FURNACE. CARL HANS VOM BAUR, Douglaston, N. Y. Filed Dec. 30, 1918. Serial No. 268,910. 7 Claims. (Cl. 204—64.)



4. An electric furnace whose contour, in plan view, is of generally elliptical shape, with three electrodes adapted to be supplied with three-phase currents and placed one at the center of the furnace and the others on the major axis of said figure, halfway between the center and the ends of such axis, the minor axis being equal to about .64 times the major axis.

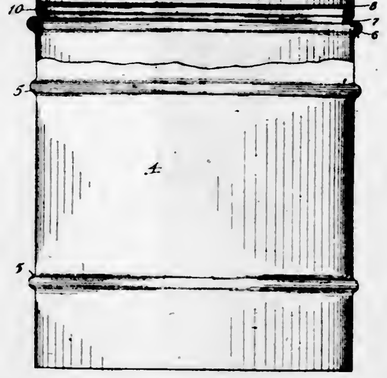
1,385,412. APPARATUS FOR CARBURETING AIR WITH SOLID FUEL. THOMAS F. WILLIAMS, DONALD W. COY, and HARRY B. PRUDEN, Chicago, Ill., assignors to Powdered Coal Engineering and Equipment Company, Chicago, Ill., a Corporation of Delaware. Filed Aug. 26, 1918. Serial No. 251,561. 6 Claims. (Cl. 193—46.)

1. In a device of the class described and in combination with the feeding means thereof, a chute delivering to said feeding means a funnel having means for attachment to a package to be emptied into said chute, means for closing



said funnel, and means for removably attaching the funnel to the chute.

1,385,413. PAIL. JAMES H. WILSON, Chicago, Ill. Filed Jan. 27, 1919. Serial No. 273,323. 3 Claims. (Cl. 220—67.)

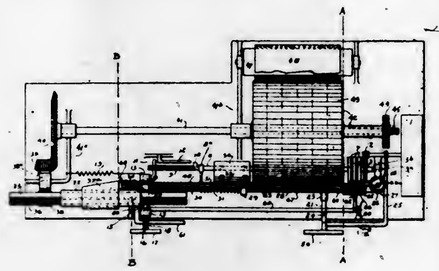


1. A pail comprising a body portion having an inwardly extending shoulder adjacent to the end, a cover formed of a single piece and fitting closely within the end, the portion of the body extending above said cover being crimped, whereby it may be bent inwardly to hold the cover in position.

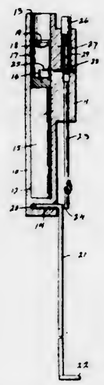
1,385,414. TIME AND COST COMPUTING AND RECORDING MECHANISM. PAUL WILSON, Pilot Oak, Ky. Filed Feb. 26, 1920. Serial No. 361,575. 21 Claims. (Cl. 234—43.)

1. In a device of the class described, a clock mechanism, a card holder adapted to receive a record card, a punch adapted to perforate said card, said punch mounted so as to be moved parallel to the face of the card by the movement of the clock at a measured rate, a stop carried by said punch, upper and lower pairs of racks mounted for actuation parallel to said card, means for actuating the same, means provided to arrest the movement of one of said racks when it arrives opposite the perforation of said

card made by the punch, means provided to permit the other of said racks to continue to travel until its movement is arrested by a stop carried by the punch, a printing wheel mounted for rotation, means provided for rotating said printing wheel, said means adapted to operate during the period of time that one rack travels after the travel of the other rack has been halted.



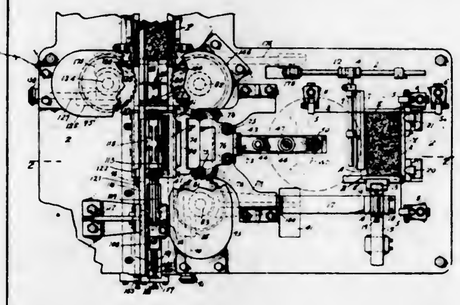
1,385,415. SPARK-PLUG AND IGNITION TESTER. WILLIAM S. WITTER, Davenport, Iowa. Filed Feb. 15, 1919. Serial No. 277,212. 17 Claims. (Cl. 175—183.)



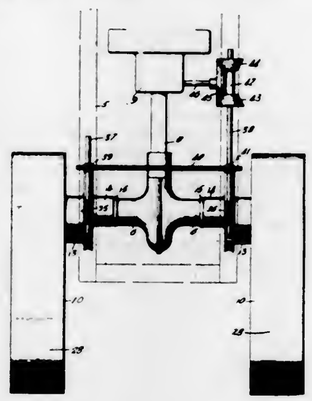
6. A tester of the character described comprising a tubular body having a bore open at one end, the body being formed of insulated material, a conductor angularly bent at one end and having said angular end rotatably engaged in the body opposite the open end thereof, a metallic body disposed with said bore and having an electrode, a second electrode passing through the wall of the body and spaced from the first electrode to form a spark gap, and means for establishing or disestablishing electrical connection between the first named conductor and the electrode.

1,385,416. PLATE-FINISHING MACHINE. WILLIAM M. WOOD, New Brighton, and HOWARD REYNOLDS, New York, N. Y., assignors to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Apr. 15, 1918. Serial No. 228,741. 52 Claims. (Cl. 29—21.)

1. In a plate finishing machine, the combination of means for finishing two edges of a plate, means for engaging registering guides in said plate during the finishing operation to control the plate during such operation, and means for finishing the other two edges of the plate to which means the plate is delivered while under control of the means engaging the guides.



1,385,417. TRACTOR. JOHN COCHRANE WOOLEY, Moscow, Idaho. Filed Aug. 21, 1919. Serial No. 319,016. 6 Claims. (Cl. 180—41.)



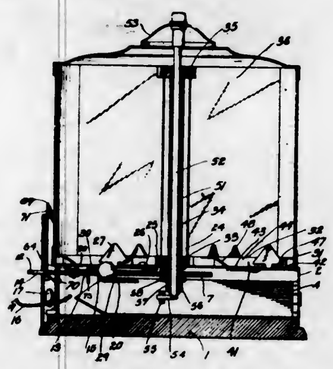
1. In a tractor of the character described, an axle casing to be secured to the frame of the tractor, eccentric bearings arranged at the ends of the axle casing, each eccentric bearing including an outer eccentric bearing element and an inner eccentric bearing element having eccentric hubs pivoted upon the end of the axle casing, said hubs having a recess formed therein, said inner and outer eccentric bearing elements being provided at their peripheries with inclined faces, shims arranged between the contacting sides of the inner and outer eccentric bearing elements, adjustable means connecting the inner and outer eccentric bearing elements, an annular tread member arranged about the inner and outer eccentric bearing elements, and having inner inclined faces and an annular gear arranged between the faces, tapered rollers engaging the inclined faces of the eccentric bearing elements and the inclined faces of the annular tread member, a gear arranged within the recess of each pair of inner and outer eccentric bearing elements and engaging the annular gear, means to turn the last named gear, and means to turn each pair of inner and outer eccentric bearing elements upon their pivot.

1,385,418. BEARING FOR ROLLERS. ALBERT M. AYERS, Nutley, N. J. Filed Apr. 7, 1920. Serial No. 371,847. 3 Claims. (Cl. 156—29.)



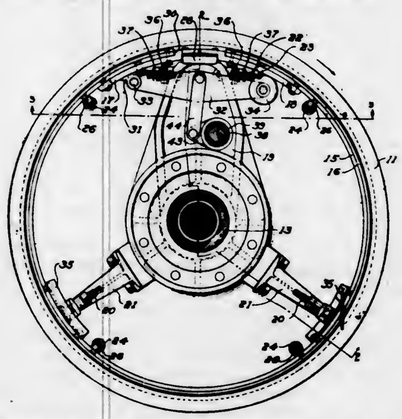
3. In combination with a roller having a kerfed end, a liner and facing therefor, said facing open to receive an interlocking male part, and a cap adapted to partly cover said end of said roller and liner, and said liner and facing formed integrally out of a single piece of metal.

1,385,419. VENDING-MACHINE. MELVILLE B. BAIRD, Kansas City, Mo., assignor of one-half to John C. W. Bland, Tulsa, Okla. Filed Dec. 13, 1919. Serial No. 344,658. 8 Claims. (Cl. 211—8.)



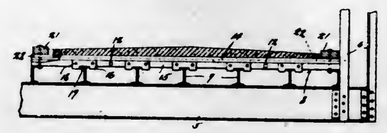
1. In a vending machine, an actuating slide having an opening, a pivoted gate carried by the slide, means for moving the gate across the opening when the slide is moved in one direction and away from the opening when the slide is moved in another direction, and means for delivering material into said opening.

1,385,420. BRAKE. WALTER C. BAKER, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 10, 1919. Serial No. 289,059. 7 Claims. (Cl. 188—79.)



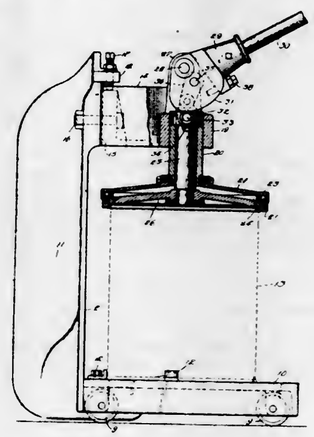
1. In brake mechanism, the combination of a brake drum, a brake band, members rigidly secured to the ends of the brake band, anchoring means coöperating with said members to limit the circumferential movement of the brake band, and operating means for moving the ends of the brake band toward the drum comprising a member movable with the member on one end of the brake band and coöperating with the member on the other end of the brake band.

1,385,421. COMBINED BRIDGE-FLOOR. FITCH H. BEACH, Charlotte, Mich. Filed Dec. 26, 1919. Serial No. 347,310. 1 Claim. (Cl. 14—73.)



In combination with a bridge construction including transverse floor beams, I beams supported by the floor beams and disposed in parallel relation, sectional flooring, steel plates carried by the sectional flooring, each steel plate having a cut out portion adapted to embrace a portion of the I beam associated therewith, and each of said sections having a recessed upper surface to accommodate a surfacing material.

1,385,422. MACHINE FOR FASTENING CAN-COVERS. STEVENS A. BENNETT, Chicago, Ill., assignor to Wilson & Bennett Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 13, 1919. Serial No. 303,978. 6 Claims. (Cl. 113—16.)

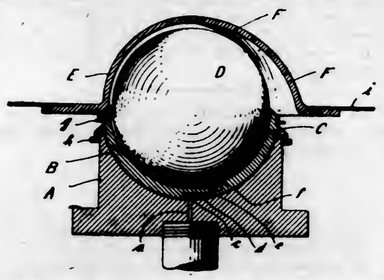


1. A machine for fastening can covers, comprising a die member for bending the cover holding projections on a can, and a second die member for completing the bending operation and means for actuating said die members to press the projection against the cover and simultaneously press the cover against its seat.

1,385,423. COMPASS. ROYAL E. BIBBINS, New York, N. Y. Filed July 31, 1920. Serial No. 400,323. 1 Claim. (Cl. 33—204.)

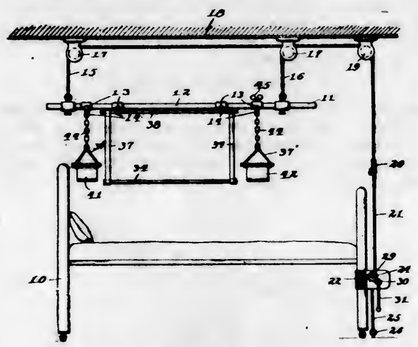
A compass which comprises a base cup adapted to permit a supply of air to pass therethrough to the chamber of said cup, a floating vessel adapted and shaped to rest in said base cup when stationary and to float therein when raised by the supporting air, a removable and ad-

justable cover for said vessel, and a ball adapted to be located inside said vessel when covered and to spin freely



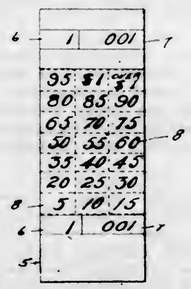
and effectively therein when, and as, acted upon by the air fed to said vessel through said base cup.

1,385,424. INVALID-HANDLING APPARATUS. VINA BILLINGS, Detroit, Mich. Filed Feb. 21, 1920. Serial No. 360,269. 4 Claims. (Cl. 5—44.)



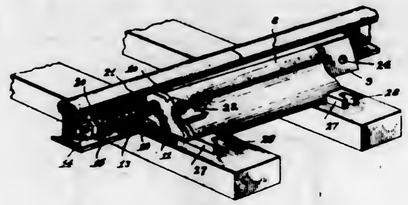
1. A device of the class described comprising a horizontally disposed member adapted to be supported above a bed, means for raising and lowering said member, a plurality of transverse arms on said member terminating in hooked ends, rods detachably supported in said hooked ends, links depending from said rods, longitudinally disposed rods attached to the lower ends of said links, and a flexible member provided with casings to receive said rods, substantially as described.

1,385,425. CASHIER'S TICKET. ERNEST V. BLOOMQUIST, Minneapolis, Minn. Filed Apr. 22, 1920. Serial No. 375,682. 1 Claim. (Cl. 283—51.)



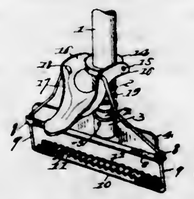
A cashier's ticket having end spaces, longitudinal and transverse rows of perforations between said end spaces dividing the intermediate portion of the ticket into detachable squares, certain of which have printed thereon, in denominations increasing by five, the numerals five to ninety-five inclusive, the next following square after 95 having printed thereon $1, and the next following square after $1 having printed thereon Over $1, said transverse rows of perforations being extended completely across the ticket.

1,385,426. RAIL-JOINT CHAIR. JOHN A. BRIDGE, Larimer, Pa., assignor of one-eighth to Lawrence A. Bridge and one-eighth to Charles C. Ponitz, North Irwin, Pa. Filed Apr. 30, 1921. Serial No. 465,787. 3 Claims. (Cl. 238—207.)



1. A rail-joint chair, comprising a base adapted to lie beneath the rails and provided with an integral supporting flange adapted to engage one side of the rails and the underside of the rail-head, and a wedge-flange extending upwardly and spaced from the other side of the rails and provided with an inner face which is inclined with respect to the sides of the rails to form a wedge-space between the rails and the wedge-flange, a wedge-bar adapted to be forced into the wedge-space, and means connected to the small end of the wedge-bar for holding it in wedging position, including a spring mounted on an extension rod projecting from the small end of the wedge-member and with locking means for forcing it under tension for automatically taking up loose motion.

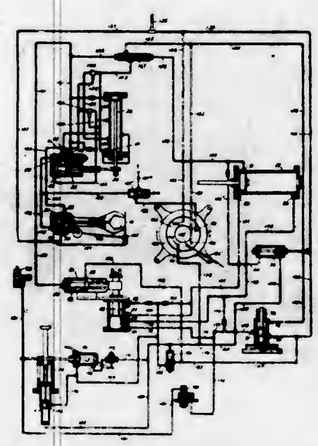
1,385,427. MOP CLAMP AND HEAD. JOSEPH G. COUCH, Bessemer, Mich. Filed Mar. 9, 1921. Serial No. 450,878. 2 Claims. (Cl. 15—56.)



1. In a device for the purpose indicated, a stationary mop clamping jaw, a handle therefor, said clamping jaw having a V-shaped channel provided with a longitudinal arrangement of teeth in its crotch, a movable jaw opposing the V-shaped channel of the stationary jaw and having parallel rows of teeth for straddling the teeth of the stationary jaw for clamping the mop therebetween and means for holding the movable jaw in clamping position with the stationary jaw.

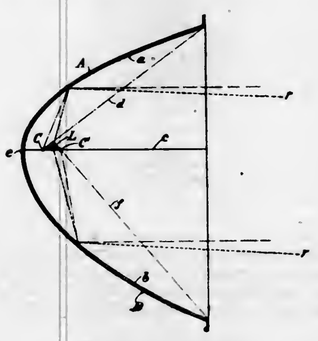
1,385,428. MACHINE FOR MAKING GLASS BOTTLES. CHARLES F. COX, Bridgeton, N. J. Filed June 4, 1912. Serial No. 701,506. 6 Claims. (Cl. 49—5.)

4. In a bottle making machine, an inverted mold for receiving the molten glass, shears above said mold for removing the excess glass, a downwardly movable plunger provided with a bottom finishing head, a neck finishing head, means for operating said shears, and means controlled by said shear operating means for both operating said plunger and rotating said neck finishing head.



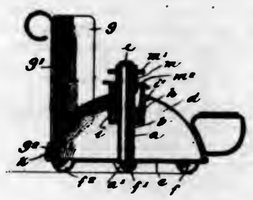
5. In a glass-working machine, the combination of a cylindrical carrier rotatable about its own axis and otherwise movable only in a horizontal plane and having a fluid-pressure chamber, a mold including two mating members at least one of which is movable relative to the other, a piston mounted in said fluid-pressure chamber, connections between said piston and the movable mold member or members, and means for turning said cylindrical carrier upon its axis to invert the mold.

1,385,429. SEARCHLIGHT-REFLECTOR. CHARLES W. CROCKETT and CHARLES H. CROCKETT, Troy, N. Y. Filed Feb. 27, 1915, Serial No. 10,956. Renewed Jan. 11, 1921. Serial No. 436,615. 6 Claims. (Cl. 240—41.)



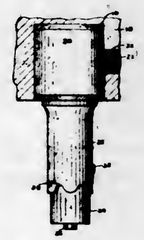
1. A searchlight reflector comprising a curved surface lying substantially on one side of a horizontal plane through the horizontal axis of a vertical axis section of the surface, the vertical axial section of the said surface being an arc of a conic section, and a source of light lying substantially above the horizontal plane through the horizontal axis of a vertical axial section of the surface and forward of a plane intersecting the forward upper edge of the reflector and the focus of a vertical axial section of the surface, whereby reflection of light in a direction above the horizontal is substantially prevented.

1,385,430. LAMP. GERÓNIMO CROSETTI, Buenos Aires, Argentina. Filed Nov. 29, 1920. Serial No. 427,015. 9 Claims. (Cl. 67—36.)



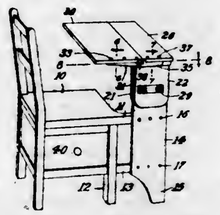
1. A lamp, comprising a liquid fuel receptacle embodying a bottom member; a vertical core secured at its lower end to the bottom member and projecting upwardly beyond said receptacle; an open-ended vertical tube fitting over said core but spaced therefrom to produce an intermediate tubular chamber therebetween which communicates at its lower end with the interior of the fuel receptacle; and a piece of absorbent, substantially noncombustible material fitting in the upper end of the tube and to which the fuel is fed by capillarity through said chamber.

1,385,431. METHOD OF MAKING PAPER CENTERING CUPS OR THE LIKE. HAROLD DE OLANETA, New Haven, Conn., assignor to The Winchester Repeating Arms Company, New Haven, Conn. Filed June 28, 1920. Serial No. 392,287. 34 Claims. (Cl. 93—36.)



1. The method of making centering cups for dry cells, or the like, from fibrous material which includes shaping the upturned edge of the cup to form indentations or scallops therein.

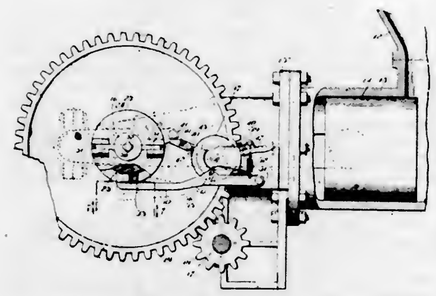
1,385,432. COMBINED SCHOOL DESK AND CHAIR. PHILO O. DERRYSHIRE, Chicago, Ill., assignor to The Delaware Chair Company, Delaware, Ohio, a Corporation of Ohio. Filed Feb. 21, 1921. Serial No. 446,979. 2 Claims. (Cl. 155—128.)



1. In a combined chair and desk, in combination, a chair; a flat standard secured to the chair at the front and side thereof, having in its upper portion a pair of apertures located side by side; a transversely extending horizontal top above the standard and in front of the chair; a pair of flat clamping members depending from the un-

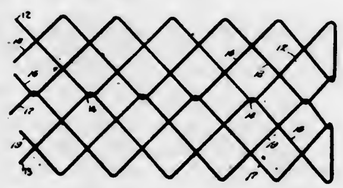
derside of and secured to the top and embracing the apertured upper portion of the standard; and a pair of clamping bolts extending through the clamping members and the apertures in the standard, said apertures being larger than the bolts to permit horizontal, vertical and angular adjustment of the clamping members to vary the horizontal, vertical and angular positions of the top.

1,385,433. UNDERFEED-STOKER. WILLIAM EVANS DE VOE, Chicago Heights, Ill., assignor to The Under-Feed Stoker Company of America, Chicago, Ill., a Corporation of New Jersey. Filed June 9, 1919. Serial No. 302,784. 11 Claims. (Cl. 110—109.)



11. The combination with a battery of underfeed stokers each having a ram and a crank shaft, of a constantly-driven line shaft for driving said crank shafts, means associated with each crank-shaft for connecting it with the line shaft to receive a single rotation therefrom, and means associated with each crank shaft and driven from the line shaft for operating said connecting means at variable predetermined intervals.

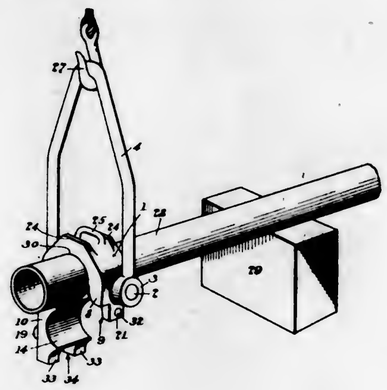
1,385,434. WIRE FABRIC. KASPAR I. DIETHELM, New York, N. Y. Filed Dec. 22, 1917. Serial No. 208,407. 1 Claim. (Cl. 245—8.)



In a fabric of the class described, a pair of zigzag strands looped at their adjacent corners, another pair of zigzag strands interlocked with said first pair and also looped at their adjacent corners and crossing said first pair substantially at right angles and between said corners, and a third pair of zigzag strands interlocked with said first two pairs, all of said strands being straight except at said corners.

1,385,435. WELL-ELEVATOR. WILLIAM LINCOLN DUNN, Oxnard, Calif., assignor to Dunn Manufacturing Company, Oxnard, Calif., a Corporation of California. Filed Apr. 9, 1919. Serial No. 288,759. 3 Claims. (Cl. 294—91.)

1. An elevator of the character described, comprising a substantially U-shaped body having a curved inner face to interengage the periphery of a casing section, a gate pivotally connected at one end with one end of said body, means for latching the other end of the gate to the other end of said body, said gate having a curved inner face, and



means upon said body for supporting the body on edge; said means comprising spaced feet, a handle being provided upon the body between the feet.

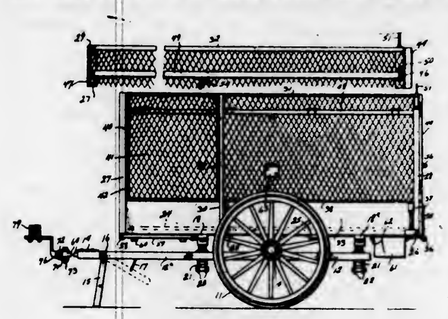
1,385,436. VALVE-LIFTING DEVICE. HERMANN EGLOFF, Los Angeles, Calif. Filed Sept. 4, 1919. Serial No. 321,698. 5 Claims. (Cl. 29—86.3.)



1. A valve lifting device, the combination with a valve and valve lifter, of means whereby upon movement of the valve lifter the valve is raised to a degree in excess of the rise of the valve lifter; said means comprising crossed levers.

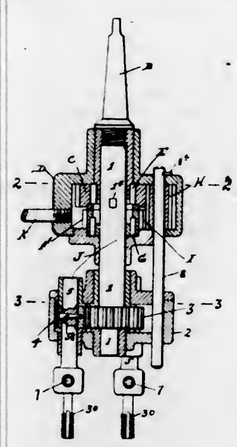
1,385,437. AUTOMOBILE-TRAILER. EDWARD ELLERMAN, Littleton, Colo., assignor of fifty-one one-hundredths to J. Ernest Mitchell, Littleton, Colo. Filed July 21, 1920. Serial No. 397,910. 7 Claims. (Cl. 296—23.)

1. A trailer of the character described comprising a wheel supported frame having a draft connection, a body yieldingly supported upon said frame and having side and end walls of wire screen material, and sections constituting lids hinged to the side walls of the body adjacent the upper edges of the side walls and movable into a horisontal position or into an upright position, the frame of the body being provided with means whereby said lid may be



supported in a horizontal position to thereby constitute a support for an upper berth.

1,385,438. MULTIPLE TAPPING DEVICE AND SIMILAR TOOL. FRANKLIN ALFRED ERRINGTON, Stapleton, N. Y. Filed Nov. 20, 1919. Serial No. 339,313. 3 Claims. (Cl. 10—130.)



3. The combination with a main driving-spindle, of an axially located supplementary driven-spindle provided with a supplementary driven-gear journaled in a non-rotative housing, a plurality of pinions journaled in said housing and meshing with said driven-gear, each of said pinions having an axially located tool-holder connected to turn in unison therewith in a direction opposite to that of the main driving-spindle when said parts are in the driving-position, and means to reverse the direction of rotation of said supplementary driven-spindle to turn said tool-holders in the same direction of rotation as said main driving-spindle, substantially as described.

1,385,439. BALING-PRESS. WILLOUGHBY R. FLETCHER, Brinkman, Okla. Filed Mar. 22, 1920. Serial No. 367,902. 3 Claims. (Cl. 100—11.)

1. The combination with a baling press having a press box mounted upon a supporting frame, a screw reversely threaded at its opposite ends and mounted for rotation in said frame, a supporting track carried by said frame parallel to said screw and spaced therefrom, nuts carried by the reversely threaded end of said screw and bearing on said track and toggle levers connected to the nuts, of a follower head movable in said press box and having spaced guide studs extending therefrom, and a follower

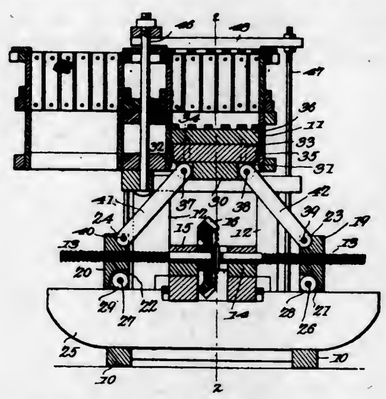
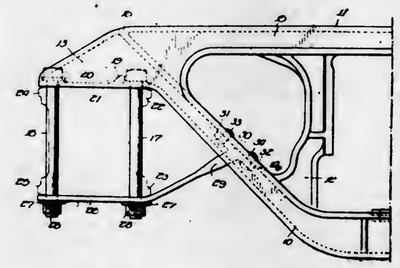


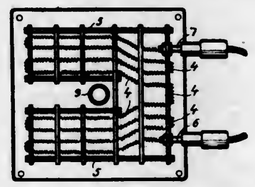
plate carried by said follower head and having spaced cavities for engagement with said guide studs, said toggle levers being pivoted by their respective ends in said nuts and follower head.

1,385,440. CONNECTION BETWEEN SIDE FRAMES AND TIE-BARS. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 8, 1920. Serial No. 372,224. 1 Claim. (Cl. 105—221.)



In combination, a truck side frame having a tension member of channel section with a web portion, and a journal box tie bar having a T-shaped head extending into the channel and permanently secured to said web.

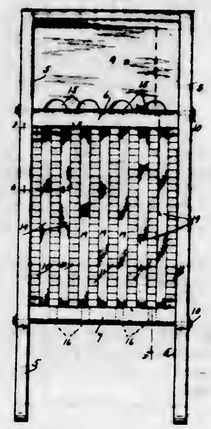
1,385,441. ELECTRIC FLUID-HEATING APPARATUS. EDWARD FREDRIKSEN, Christiania, Norway. Filed Jan. 29, 1920. Serial No. 354,996. 4 Claims. (Cl. 219—39.)



1. In apparatus of the character described, a liquid container, inlet and outlet tubes connected therewith,

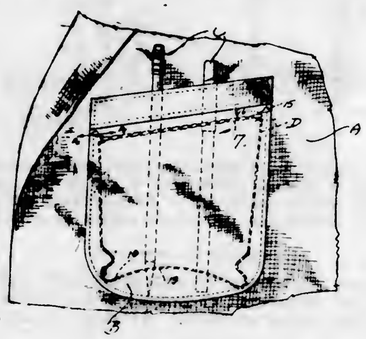
a removable heating member operatively associated with said container, and a housing for said heating member removably connected to said container.

1,385,442. WASHBOARD. WILLIAM P. GRIFFITH and ANNA GRIFFITH, Minneapolis, Minn. Filed Jan. 7, 1921. Serial No. 435,618. 4 Claims. (Cl. 68—29.)



1. A wash board having a rubbing surface formed by alternating rows of brush bristles and rigid rubbing stripe, said bristles and stripe being extended longitudinally of the board and continuous in the direction of the rubbing action and both thereof being exposed where they will be engaged during the rubbing action.

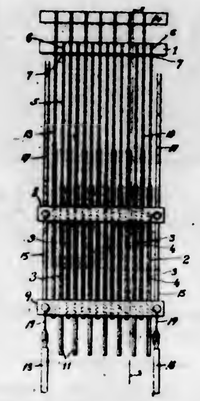
1,385,443. ARTICLE-HOLDER. MONRS GROSS, Berwick, Pa. Filed June 8, 1920. Serial No. 387,460. 3 Claims. (Cl. 24—10.)



1. In an article holder, the combination, of a resilient frame, comprising a pair of arms, one of said arms being longer than the other, a resilient connection secured to said arms, and a yieldable band connecting the free ends of said arms and angularly disposed with respect to said base connection.

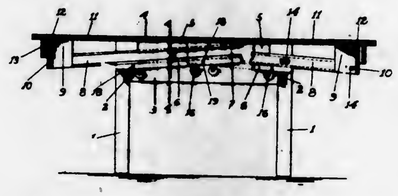
1,385,444. WEAVING APPARATUS. WILLIAM F. GRUPE, Hudson Heights, N. J. Filed June 19, 1919. Serial No. 305,370. 3 Claims. (Cl. 139—14.)

1. Weaving apparatus comprising a set of heddles, each heddle being formed of relatively stiff material, a lateral side of each heddle being provided with an eye having an open side, slotted guide means for said heddles, said heddles being disposed laterally side by side, means for



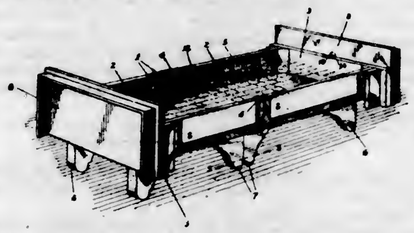
supporting and operating said heddles, and means disposed laterally of each heddle for effectively closing the open side of its eye and means for supporting said closing means.

1,385,445. EXTENSION-TABLE. CHARLES H. GUNN, Oakland, Calif. Filed June 2, 1920. Serial No. 386,051. 2 Claims. (Cl. 45—115.)



1. An extension table comprising a fixed center top member, slides mounted under said top member and adapted to be moved horizontally, extension top members connected to corresponding slides, rigid bars forming the top guides for the slides, and vertically adjustable bars forming the lower guides for said slides.

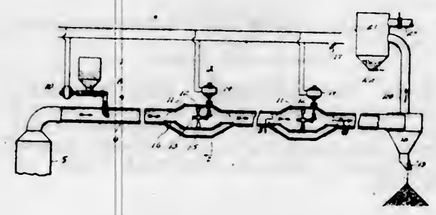
1,385,446. COMBINATION BED AND TABLE. CHARLES H. GUNN, Oakland, Calif. Filed Nov. 9, 1920. Serial No. 422,789. 2 Claims. (Cl. 5—17.)



1. A combination bed and table comprising a pair of box like structures open on one face and hinged together at the edges adjacent the open face whereby they may

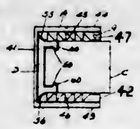
be opened out to serve as a bed area or folded together to serve as a table-support, the ends of the box like structure opposite the hinged ends serving as the table top, auxiliary table leaves hinged to the rigid tops transversely thereof and at opposite ends, legs projecting outwardly from the structures at their hinged ends and arranged to support the same both when used as a table and as a bed, and additional legs similarly disposed at the opposite ends of the structures from the first named legs and arranged to support the auxiliary leaves in horizontal alinement when the structure is used as a table and to sustain the weight of the opposite ends thereof when serving as a bed.

1,385,447. METHOD OF TRANSPORTING COAL. WILLIAM E. HAMILTON, Columbus, Ohio. Filed Feb. 8, 1918. Serial No. 215,995. 7 Claims. (Cl. 302—66.)



1. The process of transporting fuel such as coal, coke, or the like, for comparatively long distances, which consists in pulverizing the fuel, then introducing it with a carrying fluid which will make a non-explosive mixture with the fuel into a pipe line, and forcing the fluid and fuel through said pipe line.

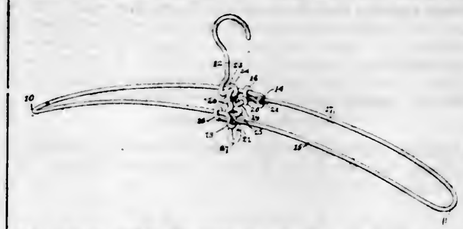
1,385,448. DOOR-BUFFER. JOHN H. HARWARD, Lawrence, Mass. Filed Mar. 21, 1921. Serial No. 454,058. 4 Claims. (Cl. 16—86.)



1. In a buffer for automobile doors, the combination of an attaching casing having a base, a back, an open top made with grooves, an open front, and opposite sides each provided with a plurality of teeth, with means to attach the base to the door jamb or a door coöperating therewith, a removable cover plate for the top slidable in the grooves thereof, a follower adapted to be inserted through the top having projections to engage said teeth and locking fingers, and an elastic contact member which projects from the front of the casing and engages the locking fingers of the follower.

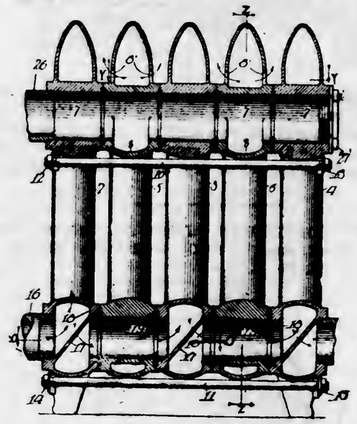
1,385,449. COLLAPSIBLE GARMENT-HANGER. RUDOLPH B. HEINLE, Brooklyn, N. Y. Filed Feb. 24, 1921. Serial No. 447,371. 4 Claims. (Cl. 211—13.)

2. As a new article of manufacture, a garment hanger comprising a pair of telescoping U-shaped wire members provided with automatic locking means to hold the same in extended position; a cross member spanning the inner end of the U-shaped members; and a hook pivotally connected with said cross member to suspend the hanger,



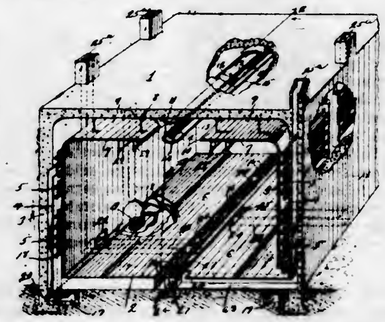
and having means for engaging the cross member to lock the hook in upright position.

1,385,450. RADIATOR. WILLIAM R. HILDEBRAND, Chicago, Ill. Filed Apr. 18, 1918. Serial No. 229,302. 6 Claims. (Cl. 257—141.)



2. The combination in a radiator of alternate heating and air sections with an air-passage and a heating fluid passage passing through said sections, said air passage communicating with said air sections and said heating fluid passage communicating with said heating sections, and said air section passages having outlets therefrom open to the outer air.

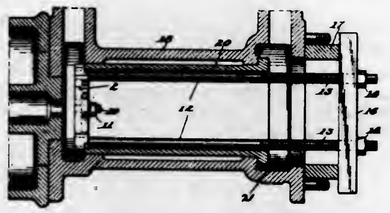
1,385,451. DRY-KILN. JOSEPH F. HIRT, Chicago, Ill. Filed Apr. 20, 1920. Serial No. 375,212. 11 Claims. (Cl. 34—19.)



1. A kiln having a drying chamber and a heating chamber, means for circulating air through said chambers,

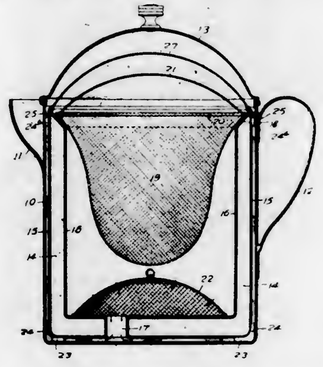
means whereby fresh air is admitted to the circulating air at a point where it will pass through the heating chamber before entering the kiln chamber thereby thoroughly mixing and heating the additional fresh air with the recirculating air, before entering the drying chamber, means for supplying humidity to the air before it enters the drying chamber, and means for varying the amount of humidity supplied to various portions of the kiln.

1,385,452. LINER-PULLER. FELIX HOFFMAN, Newport News, Va. Filed Apr. 8, 1919. Serial No. 288,489. 6 Claims. (Cl. 29—88.2.)



1. A liner puller comprising an adjustable device consisting of two members for engaging the end of a liner, and means comprising two members each of which engages one of the first named members for applying a pulling strain to said members first named for extracting the liner.

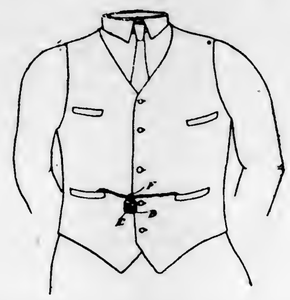
1,385,453. COFFEE-URN. JAMES A. HOLMAN, Salida, Colo. Filed Aug. 9, 1920. Serial No. 402,174. 3 Claims. (Cl. 53—3.)



1. In a coffee urn, outer and inner receptacles, said inner receptacle being provided with spaced walls affording therebetween a dead air space, spaced lugs extending intermediate the sides and bottom of said inner receptacle and said outer receptacle to afford therebetween circulation passages, said inner receptacle being provided in the bottom thereof with an outlet connecting the interior thereof with said circulation passages, said lugs being secured to said inner receptacle and a lug secured to said outer receptacle and abutting the upper surface of one of the lugs secured to said inner receptacle, whereby vertical displacement of said inner receptacle is prevented.

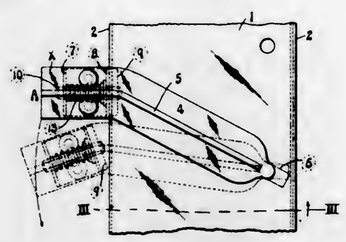
1,385,454. WATCH-CHARM. RALPH CLIFTON HOMAN, Chino, Calif. Filed Dec. 29, 1920. Serial No. 433,872. 2 Claims. (Cl. 40—1.5.)

1. A watch charm comprising a body of circular form, a plurality of emblems detachably mounted on the periphery of the body and comprising plates, and fastening members carried by the plates and penetrating said body for



detachably securing the emblems in definite position upon the body.

1,385,455. TRACTION-WHEEL. HENRY W. KARDELL, University City, Mo., assignor to Kardell Tractor & Truck Company, St. Louis, Mo., a Corporation of Delaware. Filed June 8, 1918. Serial No. 239,037. Renewed June 6, 1921. Serial No. 475,556. 6 Claims. (Cl. 301—44.)

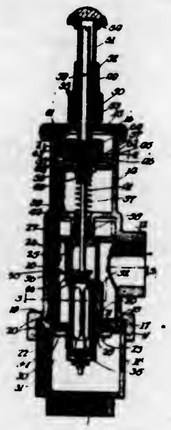


6. A traction wheel having a tread rim, traction spurs in the form of cleats arranged diagonally of said tread rim, one end of each of said cleats being provided with a pivotal extension projecting into and interlocked with said rim and the opposite end portion being provided with a hook adapted to interlock with one side of the rim, said hook having an abutment face engaging the side of the rim to limit pivotal movement of the cleat, each cleat being movable about the axis of its pivotal extension to permit its hook to be interlocked with and removed from the rim, and spring actuated latch devices whereby said hooks are retained in interlocking engagement with said rim, each of said spring actuated latch devices including a latch member located adjacent to the hook with which it is associated and a spring whereby said latch member is yieldingly retained in its locking position.

1,385,456. FLUSH-VALVE. EDWARD L. KELLAN, Chicago, Ill. Filed May 15, 1916. Serial No. 97,522. 2 Claims. (Cl. 137—93.)

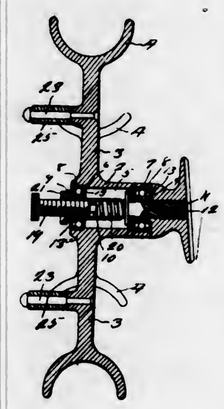
1. A flush valve of that kind which is controlled by differential pressures acting on the operative parts thereof from a source of liquid supply under pressure, comprising a casing provided with an inlet and with an outlet, a main valve between them, a relief valve controlling the main valve, a liquid controlled, regulable timing element in alinement with said relief valve for opening the relief valve and for timing the closing movement of the valve device, said timing element being separate from and removable independently of the relief valve and associated parts,

means cooperating with the relief valve for holding it and its associated parts closed and intact when the timing



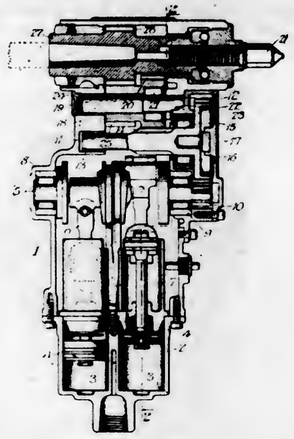
element is removed, and means constructed to permit removal of the main valve without disturbing said timing element.

1,385,457. FISHING-REEL. HENRY A. KIEST, Knox, Ind. Filed Sept. 1, 1920. Serial No. 407,452. 3 Claims. (Cl. 242—84.5.)



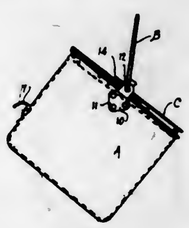
1. A fishing reel comprising a reel seat, a reel spindle carried by said reel seat, a reel having a hub member mounted on ball bearings interposed between the interior of the hub and the spindle, a friction disk carried by the hub and surrounding the spindle, friction disks disposed within the hub and surrounding the spindle and in engagement with the first mentioned friction disk, said spindle being hollow and interiorly threaded, diametrically disposed elongated slots in said hollow spindle for the reception of a transversely disposed pin, said pin having its end in engagement with the friction disk, a tensioning screw threaded in the hollow spindle and a spring interposed between the transversely disposed pin and the end of the tensioning screw, said tensioning screw forming means for varying the friction between the friction disks.

1,385,458. DRILL. HENRY J. KIMMAN, Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill., a Corporation of New Jersey. Filed Aug. 21, 1919. Serial No. 318,935. 3 Claims. (Cl. 77—6.)



1. A drill of the class described, comprising a casing, an engine therein including a main driving shaft, a drill spindle supported by the casing and operating connections between said shaft and spindle including a pinion at one end of the main driving shaft, a bearing for said shaft coacting with one end thereof and a second bearing for the shaft engaging an intermediate surface of said shaft, a main intermediate shaft mounted within the casing and having at one end a gear meshing with said pinion and provided intermediate its length with a pinion, a bearing for one end of said intermediate shaft, and a second bearing for said shaft cooperating therewith between the pinion and gear thereon, and a secondary shaft mounted within the casing and having disposed thereon a gear meshing with the pinion of the main intermediate shaft and also having a pinion, and a gear portion on said spindle meshing with said last mentioned pinion.

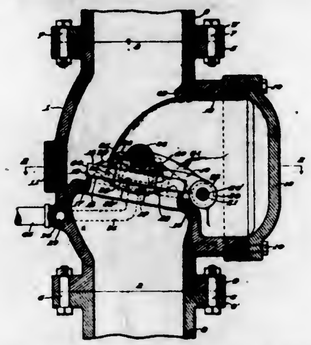
1,385,459. COOKING-RECEPTACLE. JAY M. LAWRENCE, St. Paul, Minn. Filed Nov. 5, 1920. Serial No. 422,029. 2 Claims. (Cl. 53—1.)



2. A receptacle, comprising a body, a cover on said body having obstructions spaced apart on its lower side to provide pouring spaces and adapted to nest freely in the open end of the receptacle, to limit side movement of the cover and prevent the cover from sliding off of the body, a bail ear on said body having a stop and a bail hinged in said bail ear having a cover engagement limiting the upward movement of the cover and permitting the cover to tilt open when the body is tilted in the pouring operation, said stop being positioned in the path of the

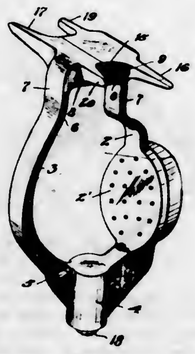
ball to obstruct the movement of the ball and cause the ball to coöperate with said obstructions in preventing the cover from being entirely removed from the body.

1,385,460. ALARM CHECK-VALVE. LEROY M. LEWIS, Philadelphia, Pa., assignor to Owen B. Lewis, Baltimore, Md. Filed Oct. 28, 1919. Serial No. 333,944. 5 Claims. (Cl. 169—23.)



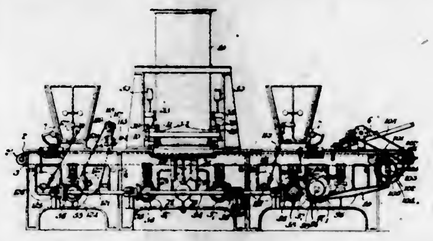
1. In an alarm check valve comprising a casing having inlet and outlet passages and a main check valve pivotally supported therein, the combination of an auxiliary check valve located in said casing and provided with an adjustable sleeve, a valve freely movable therein, an auxiliary valve seat located in said casing adjacent to the seat of said main check valve, passages provided within said casing communicating with said auxiliary valve and the exterior of said casing, an arm for said auxiliary valve extending over and contacting with said main check valve, said arm pivotally mounted upon the same axis as the main check valve, said auxiliary valve and said auxiliary valve seat being located at a substantially shorter distance from said axis than the outer portion of said main valve whereby the opening of said auxiliary valve is proportionately smaller than that of the portion of said main valve remotely located from said axis.

1,385,461. THEFT-WARNING AUTOMOBILE-LOCK. JOHN K. MCDONALD, Los Angeles, Calif., assignor to Theft Warning Auto Lock Corporation, Los Angeles, Calif., a Corporation of California. Filed June 21, 1920. Serial No. 390,361. 11 Claims. (Cl. 70—90.)



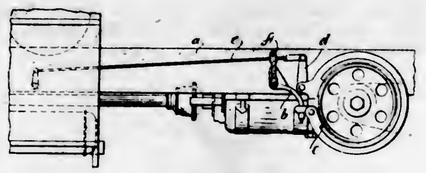
9. A theft-warning automobile lock comprising a pair of side arms lockable around the tire and felly between spokes of a wheel, and guard lugs extending from opposite sides of each arm toward, and adapted to abut, the adjacent spoke upon rotation of the applied device around the tire and felly.

1,385,462. CANDY AND CHOCOLATE MACHINE. SYLVESTER S. MARVIN, Bryn Mawr, and WILLIAM MUNS, Philadelphia, Pa., assignors to Pennsylvania Chocolate Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 11, 1919. Serial No. 337,211. 26 Claims. (Cl. 107—1.)



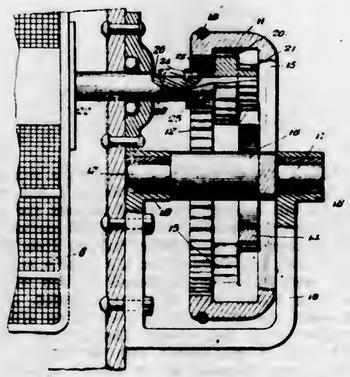
1. In a machine of the character described, the combination with mechanism for feeding trays and mechanism for measuring and depositing a plastic material on said trays, of means for depositing nuts on said material and means for pressing said nuts into said material.

1,385,463. YIELDING SUPPORT FOR BRAKE-RODS. ALFRED F. MASURY and AUGUST H. LEIPERT, New York, N. Y., assignors to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 6, 1920. Serial No. 428,472. 4 Claims. (Cl. 188—205.)



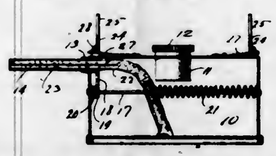
1. As an article of manufacture a support for a brake rod comprising a block of stiff but yielding material adapted to be supported on the chassis of a vehicle and to be secured to the brake rod.

1,385,464. GEARING FOR WASHING-MACHINES. FRANK HOWARD MAYER, Denver, Colo. Filed Jan. 17, 1920. Serial No. 352,097. 5 Claims. (Cl. 74—50.)



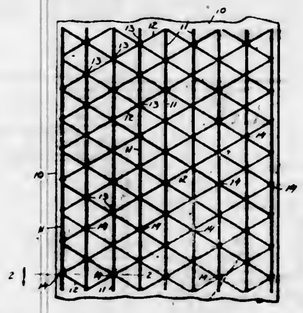
1. Gearing, including a rotatable shaft, with a shiftable two-diameter pinion, and a uni-directionally driven master gear with mutilated gear portions for oscillating said shaft when the two-diameter pinion is in registration therewith, and with a continuous gear for revolving said shaft when a corresponding portion of said pinion is shifted into engagement therewith.

1,385,465. CURLING-IRON HEATER. STANLEY MILAM, Augusta, Mont. Filed Mar. 27, 1920. Serial No. 369,210. 5 Claims. (Cl. 158—35.)



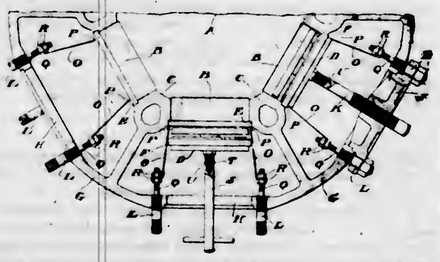
1. A heater of the class described comprising a casing, a burner tube slidably mounted in said casing and adapted to be recessed within the same when the tube is in inoperative position, means within the casing for projecting said tube therefrom toward its operative position, and means for retaining said burner tube in its inoperative position against the action of the last named means.

1,385,466. PLASTER-GROUND. ALBERT OLIVER, New York, N. Y. Filed June 28, 1919. Serial No. 307,399. 3 Claims. (Cl. 20—13.)



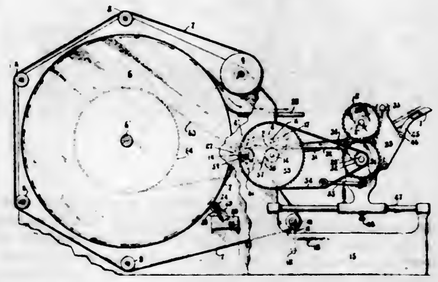
1. An article as characterized comprising, a continuous sheet of flexible fibrous material; a reinforce for said fibrous material embodying a plurality of straight suspension rods disposed in parallel spaced relation; and a binding medium, said medium consisting in a wire interwoven between said rods, said wire being wrapped on said rods.

1,385,467. VALVE-SEAT RETAINER. FREDERICK W. PARSONS, Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Nov. 9, 1920. Serial No. 422,977. 3 Claims. (Cl. 103—53.)



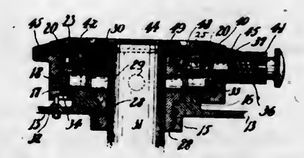
1. In a compressor, a compressor head having a valve seat opening in its inner wall adapted to receive a valve seat carrying a valve, the outer wall of the head having a corresponding opening adapted to be closed by a cover carrying an adjustable valve securing device, and spring fingers supported from inside the outer wall adjacent the cover opening and extending into proximity to the valve seat opening in the inner wall for retaining a valve seat in position in the valve seat opening until the cover and valve securing device are adjusted.

1,385,468. MEANS FOR FEEDING SHEET MATERIAL. CHARLES F. PFLANZE, St. Louis, Mo. Filed Nov. 23, 1917. Serial No. 203,523. 8 Claims. (Cl. 271—37.)



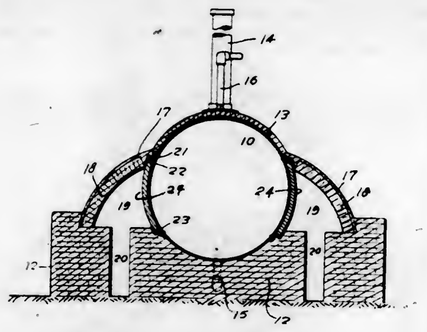
2. In a machine for feeding and arranging sheets of material to expose marginal portions thereof, a high speed rotary transmission device whereby individual sheets are discharged one over the other, and an accumulator whereby the sheets are retarded and caused to accumulate in a long continuous pile, said accumulator including a support arranged in advance of said high speed rotary transmission device to receive the sheets discharged therefrom, and a low speed feeding device comprising a pair of rotary feed rolls arranged in advance of said support to feed the sheets therefrom.

1,385,469. LOCKING DEVICE FOR THE STEERING-WHEELS OF MOTOR-VEHICLES. ROBERT ARCHIBALD PYKE, Colac, Victoria, Australia. Filed Jan. 7, 1920. Serial No. 349,963. 13 Claims. (Cl. 70—129.)



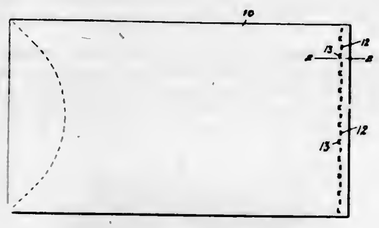
1. The combination with the steering wheel and post of a motor vehicle, of a core secured to said post for rotation therewith and provided with a plurality of radial openings, a barrel secured to said wheel and encircling said core for rotation relatively thereto, slidable members carried by said barrel and adapted to engage the openings in the core thereby to secure the barrel and core for rotation together, means normally holding said members out of engagement with said openings, a cam cup mounted for rotation on said barrel and having a plurality of cams for operating said slidable members into engagement with said openings, and means for locking said barrel with its slidable members both in and out of engagement with the openings.

1,385,470. RETORT. EDWIN E. QUINKER, Valdosta, Ga. Filed May 24, 1920. Serial No. 383,884. 7 Claims. (Cl. 203—6.)



1. In a retort construction, a base of refractory material, a retort supported upon the base, the middle portion of the retort being protected by the base and the base extending laterally on each side beyond the retort, arches extending upward from the base toward the upper portion of the retort on each side and defining with the base longitudinally extending fire passages, and shield plates of heat conducting material disposed along the opposite sides of the retort and coinciding with said fire passages.

1,385,471. ENVELOP. EDWARD J. REILLY, Baltimore, Md. Filed June 21, 1920. Serial No. 390,389. 1 Claim. (Cl. 229—85.)



An envelop having alternating tongues and slits in its opposite walls adjacent one of its folds, and extending from near one edge to near the other, the tongues of one wall being disposed opposite the slits of the other wall and extending through the slits of the same.

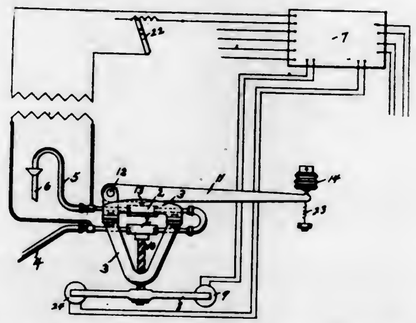
1,385,472. SPRINKLING-HOSE HOLDER. GEORGE B. RENN, Los Angeles, Calif. Filed Oct. 5, 1920. Serial No. 414,759. 1 Claim. (Cl. 248—29.)

In a sprinkling-hose holder, a standard, a sliding member shiftable and turnable on the standard, a stem on the sliding member normally projecting radially from the standard, a sleeve member shiftable and turnable on the stem of the sliding member having a pin projecting sidewise from the sleeve forming the pivot pin for clamping members, clamping jaws engaging with the pin of the sleeve member, handles provided on the clamping jaws projecting beyond the pivot support, and a spring disposed between the handles so as to normally press the handles



apart for holding the clamping jaws in a normally closed and clamping position.

1,385,473. AUTOMATIC ELECTRICAL HEAT-TREATING DEVICE. THOMAS J. RICHARDS, Youngstown, Ohio. Filed Aug. 25, 1919. Serial No. 319,571. 1 Claim. (Cl. 148—10.)

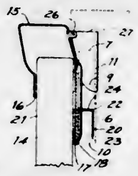


In a device of the class described, the combination of two support members, two water cooled electrodes positioned diametrically opposite each other and secured within said support members, a screw member having one end registering with one of said electrodes, a threaded opening centrally located in one of said support members, an arm securely fastened to the other end of said screw member, solenoids located under outer ends of said arm and connected to ends of said arm, means for operating said solenoids, a lever pivoted to one of said support members, a dog formed on the side of said lever, said dog located so as to register with outer surface of an electrode, a coil spring positioned at outer end of above mentioned arm, substantially as described for the purpose set forth.

1,385,474. DETACHABLE RETAINER FOR MATCHES. MAX ROPE, Kansas City, Mo. Filed Jan. 22, 1917. Serial No. 143,673. 1 Claim. (Cl. 224—29.)

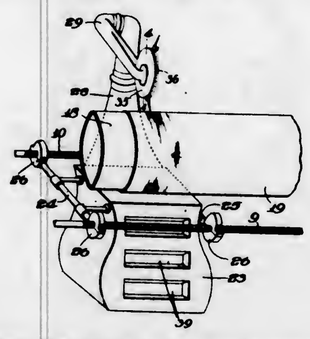
In a detachable retainer for ordinary match boxes, a bearing plate adapted to engage an automobile door, a sheet metal plate attached to the lower edge of said bearing plate and extending upwardly near said bearing plate but separated therefrom and forming a rectangular flat base to receive and retain a match box allowing the match

box cover to slide down over the base to near the bottom of said bearing plate, a spring projecting upwardly from said bearing plate and then outwardly from said bearing plate and then downwardly alongside of said bearing plate, the outwardly and downwardly projecting end of



said spring separated from said bearing plate to span and grip an automobile door and bind said bearing plate thereto, a lid hingedly connected to said spring and provided with closed sides so that when said lid is closed over a match box it will protect the match box and any matches therein from the weather.

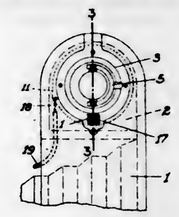
1,385,475. SOUND-REPRODUCING MACHINE. JOSEPH ROSSI, Philadelphia, Pa. Filed Dec. 22, 1919. Serial No. 346,624. 1 Claim. (Cl. 274—20.)



A machine of the character described including an elongated rotatable record; two shafts spaced apart and extending in the direction of the length of the record, at least one of said shafts being rotatable and having screw threads; a cabinet having a sound outlet; reproducing means carried by the cabinet and adapted to engage said record whereby the reproduced sound will pass out of said outlet; and transversely extending suspension means for said cabinet having parts engaging said shafts whereby the cabinet is supported jointly by said shafts, said parts having screw threaded portions for engaging said shaft screw threads, said parts being located adjacent opposite sides of the cabinet whereby the cabinet is supported at distances apart in the direction of the lengths of said shafts; substantially as described.

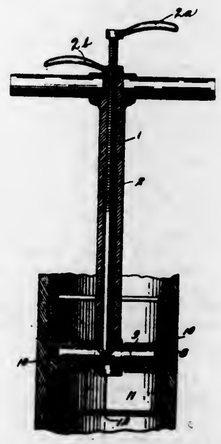
1,385,476. CAMERA-SHUTTER CONTROL. BENJAMIN F. SCHMIDT, Exeter, Calif. Filed July 5, 1919. Serial No. 308,764. 3 Claims. (Cl. 95—31.)

1. In combination with the spool winding shaft of a film-roll camera having a shutter actuated by a spring-pulled cable, a ratchet wheel mounted on the shaft and turnable therewith, a plate mounted on the hub of the wheel and turnable thereon, a spring-pressed pawl on said plate adapted to engage the ratchet wheel, and a cable attached to the plate and extending to and branching from the shutter cable and movable therewith, the teeth on the wheel being so positioned that the pawl on the plate will freely slide over said teeth when the plate is turned by the moving of the cable to actuate the shutter, said direction of movement being opposite to the direction of rota-



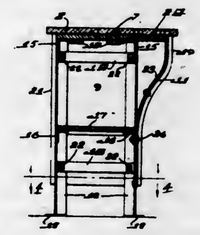
tion of the ratchet wheel when the latter is turned to wind the film-spool.

1,385,477. ADJUSTABLE TOOL. JOHN FREDERICK SEMONES, Union City, Tenn. Filed Mar. 8, 1920. Serial No. 364,349. 5 Claims. (Cl. 33—178.)



1. A device of the type described, including a threaded shaft having a tapered end, a tubular member receiving said shaft and having lateral tubular extensions, said shaft having a movement longitudinally of said tubular member, pins arranged within said tubular extensions and provided with tapered ends adapted to be engaged by the tapered end of said shaft, and a split cylindrical member adapted to be expanded by said pins.

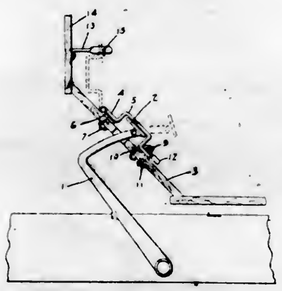
1,385,478. COUNTER CONSTRUCTION. JOHN SHEMILT, Rockford, Ill. Filed Nov. 4, 1920. Serial No. 421,654. 6 Claims. (Cl. 211—11.)



6. In a counter construction, a frame structure having ends each provided with an overhang portion, and means

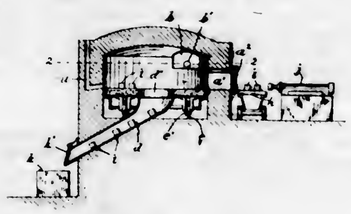
on said ends for guiding an overhang front panel into position, an overhang front panel interposed between said overhang portions and adapted to be guided into position by said means, and a counter top supported on the frame.

1,385,479. AUTOMOBILE-LOCK. FRANK STANLEY, Newcastle, Ind. Filed Oct. 4, 1920. Serial No. 414,476. 2 Claims. (Cl. 70—128.)



1. The combination with the foot lever of an automobile, of a latch for locking said foot lever against operation, said latch having an upwardly bowed portion between its ends for fitting over the end of the foot lever and having a slot in one end thereof, a plate attached to parts of the automobile, means for hinging one end of the latch to said plate, a staple also attached to parts of the automobile adapted to pass through said slot in the latch when in locking position, means for locking the latch to said staple, and a bracket secured to parts of the automobile above the latch adapted to pass through the slot therein when elevated for supporting the locking latch in vertical position.

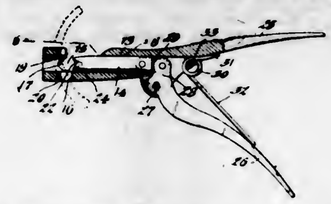
1,385,480. FURNACE WITH ROTATABLE HEARTH. MORTON A. TURTLE, East Orange, N. J., assignor to W. S. Rockwell Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 10, 1920. Serial No. 357,763. 12 Claims. (Cl. 263—26.)



1. A heat-treating furnace provided with a rotatable hearth having a discharge aperture therethrough, means for rotating the hearth and a chute beneath the aperture to receive the discharged material.

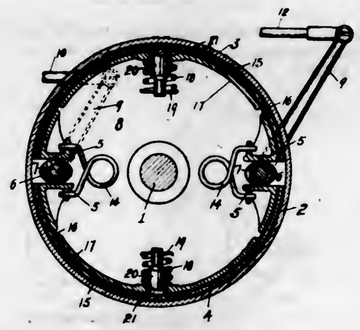
1,385,481. BENDER FOR BARS, RODS, AND WIRES. REGINALD V. WILLIAMS, Buffalo, N. Y. Filed May 17, 1920. Serial No. 381,801. 8 Claims. (Cl. 81—15.)

4. A bar bender comprising a barrel provided at its front end with two pairs of concave seats, the members of each pair being arranged on opposite sides of the barrel and at right angles to the seats of the other pair, either of said pairs of seats being adapted to receive the bar to be bent in a position crosswise of the barrel, and



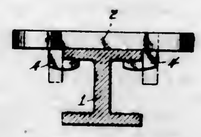
a plunger guided in said barrel and adapted to engage its front end with said bar between said pairs of seats.

1,385,482. INTERNAL EXPANDING BRAKE. GEORGE M. CARTER, Findlay, Ohio, assignor of one-half to Ralph H. Rosenberg, Findlay, Ohio. Filed May 16, 1919. Serial No. 297,597. 1 Claim. (Cl. 188—78.)



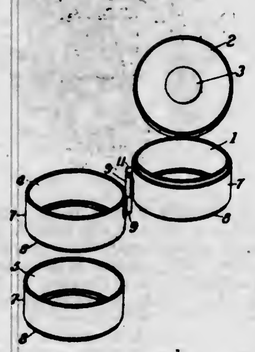
An internal expanding brake, comprising a drum, a pair of opposed segments internally of the drum at opposite sides of its axis, each segment comprising a segmental carrying strip, a fibrous facing strip applied thereto, a thrust member carried by the carrying strip at the inner side of each end portion thereof, a reinforcing backing member at the inner side of the carrying strip intermediate said thrust members, and means yieldingly retaining the reinforcing member in engagement with the carrying strip, an expanding cam between each set of opposed thrust members, and separate means connected to said cams and independently operable to effect an expansion of the segments.

1,385,483. METHOD OF MAKING VEHICLE-AXLES. GEORGE MILLER CARTER, Findlay, Ohio, assignor of one-half to Ralph H. Rosenberg, Findlay, Ohio. Filed May 20, 1920. Serial No. 382,781. 3 Claims. (Cl. 29—153.)



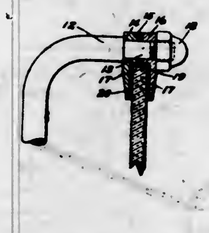
1. The method of producing an axle with an integral spring pad, consisting in providing the axle with opposed side flanges, providing a plate having bendable depending members spaced transversely of the axle, placing the plate on the axle top to form a spring pad therefor with its depending members disposed at opposite sides of the axle, bending the members under the side flanges of the axle in firm engagement therewith, and then treating the plate and axle to integrally unite the two.

1,385,484. COMPARTMENT-BOX. WILLIAM A. CASE, Plainfield, N. J., assignor of two-thirds to Simon Gottschall, New York, N. Y., and one-third to Eichengreen Sales Corporation, New York, N. Y., a Corporation of New York. Filed June 16, 1919. Serial No. 304,575. 7 Claims. (Cl. 220—4.)



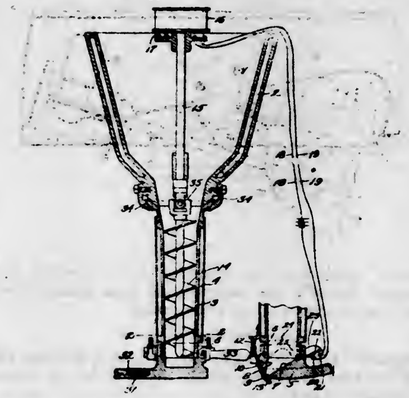
1. In a compartment box, a plurality of boxes which, in tiered position, partly telescope with each other with a close fit all around so that each superjacent box prevents egress and ingress of material of the kind specified from the subjacent box and in which, in stepped position, the interior of each subjacent box is accessible from above for filling and dispensing, a swinging connection maintaining the boxes upright while swinging between tiered and stepped positions, and a spring between adjacent boxes tending to retain the boxes in telescoped position but permitting vertical displacement therebetween.

1,385,485. WIND-DEFLECTOR. GUY COMBIE, Los Angeles, Calif. Filed Apr. 29, 1920. Serial No. 377,534. 1 Claim. (Cl. 296—84.)



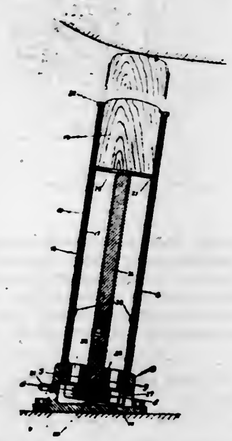
A wind deflector, comprising a shield member, a rod extending lengthwise of said shield member and having its ends bent over the ends of said shield member, said ends having reduced end portions, clamping members pivoted upon said reduced end portions and adapted to engage opposite surfaces of the edges of the shield member, retaining nuts threaded upon the reduced end portions and arranged to clamp said clamping members against said shield, and means for supporting said rod from the windshield of a motor vehicle.

1,385,486. SHOE-BOTTOM-FILLING MACHINE. OLIVER D. HOGUE, Brookline, Mass., assignor to George H. Maxwell, Phoenix, Ariz. Filed Nov. 5, 1919. Serial No. 335,860. 10 Claims. (Cl. 18—1.)



1. A shoe bottom filling machine, comprising a filler holding chamber having a delivery orifice, combined with means for controlling said orifice and means for suddenly ejecting the filler therefrom, both of said means being under the control of the operator.

1,385,487. BILGE-BLOCK. KARL R. KENNISON, Boston, Mass. Filed June 24, 1920. Serial No. 391,420. 8 Claims. (Cl. 61—66.)

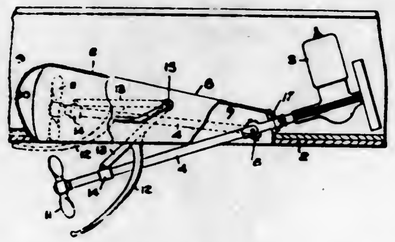


1. A bilge block having, in combination, a base, a cylindrical casing fast thereto and extending upwardly therefrom, a block adapted to engage the hull of a vessel, a tube containing and fast to said block and slidable in said casing, a nut fast to the lower end of said tube, a screw of substantially smaller diameter than the diameter of said tube engaging said nut and projecting into said tube and means to impart a rotary motion to said screw whereby a reciprocatory motion may be imparted to said tube and block.

1,385,488. DISAPPEARING-PROPELLER DEVICE FOR BOATS. ANDREW DYAS MACLEAN, Toronto, Ontario, Canada. Filed Feb. 5, 1921. Serial No. 442,802. 3 Claims. (Cl. 115—41.)

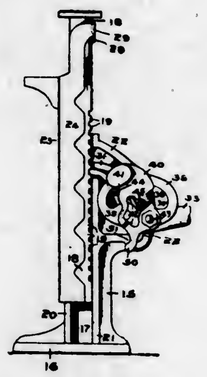
1. In disappearing propeller devices for boats: the combination with the propeller, of a propeller casing

open at the bottom, said casing having a forward flume portion, and an outwardly flaring main portion terminating in a suitably curved after end causing the rearwardly



moving water from the propeller to be directed in a forward direction for reversing the boat upon the propeller being drawn up into the casing.

1,385,489. LIFTING-JACK. ALBERT NEAL, Kokomo, Ind. Filed June 14, 1920. Serial No. 388,764. 3 Claims. (Cl. 254—111.)



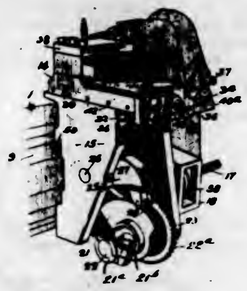
1. In a lifting jack, a channeled standard, a toothed lifting-bar moving in the channel of said standard, and a movable guide-bar having independent movement of the standard and adapted to extend across the edge and one side of the standard and the exposed side of the lifting-bar for maintaining the alinement of the associated parts.

1,385,490. STAMP OR SEAL. RUBEN PEREZ, Buenos Aires, Argentina. Filed Mar. 12, 1920. Serial No. 365,304. 4 Claims. (Cl. 101—405.)



1. In a stamp or seal, the combination of a printing surface composed of a permanent or stationary part and a removable or changeable part, means for removing or changing the said removable or changeable part, means for holding in operative position the said movable part, and means consisting of a sliding carrier whereby the changeable part may be protruded above the level of the permanent printing surface part and the changeable part removed or introduced in said carrier.

1,385,491. BACK-FACING ATTACHMENT FOR LATHES. GEORGE G. PORTER, Syracuse, N. Y., assignor to The Porter-Cable Machine Company, Syracuse, N. Y., a Corporation of New York. Filed Aug. 9, 1917. Serial No. 185,262. 14 Claims. (Cl. 82—2.)



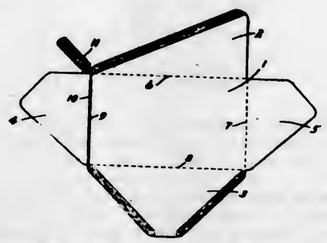
I. The combination with a lathe, comprising a bed having a guide on the rear side thereof, and a tool carriage feedable automatically along the bed in front of the axis of the lathe spindles, a frame mounted on the guide and adjustable along the same in the rear of the axis of the lathe spindles, a second tool carriage carried by the frame, and movable thereon in a direction crosswise of the axis of the lathe spindles, means for feeding the first tool carriage including a driving element, and means moving the second tool carriage cross wise of said axis during the feeding of the former tool carriage, the latter means being connected to said element, substantially as and for the purpose described.

1,385,492. MACHINE FOR ENAMELING PLATES AND THE LIKE. ROBERT H. PRICHARD, Los Angeles, Calif. Filed Jan. 9, 1920. Serial No. 352,227. 8 Claims. (Cl. 91—55.)



1. An enameling machine comprising a plurality of spaced enameling units, belt conveyers connecting said units for holding the articles flatwise, inclosed channels for receiving said conveyers, and means for forcing air through said channels.

1,385,493. ENVELOP. LESTER J. PUTNEY, Los Angeles, Calif. Filed Sept. 25, 1919. Serial No. 326,351. 1 Claim. (Cl. 229—86.)



The combination with an envelop of an opening device comprising a tab, one of the faces of which is partially

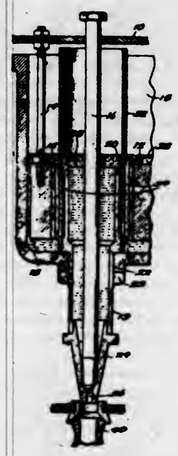
coated with an adhesive, a cord having its end portion secured and arranged adjacent to the edge of said tab to form a reinforcement therefor, and the body portion of said cord occupying a position within and being secured to the envelop immediately adjacent to one of the folds thereof.

1,385,494. CONVERTIBLE HAT. BERNICE RADLEY, Peoria, Ill. Filed Apr. 2, 1920. Serial No. 370,842. 1 Claim. (Cl. 2—108.)



In a convertible hat, the combination of a separate brim having an upstanding portion provided with a series of openings in its upper edge, a crown portion to engage over the said upstanding portion with its edge lying upon the brim, and a series of ribbons secured in the crown at substantially the same height as the openings of the upstanding portion and adapted to be passed through and tied at said openings for holding the parts of the hat together.

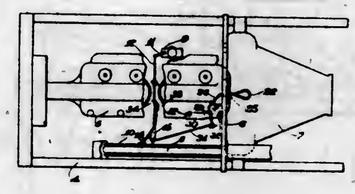
1,385,495. NON-FOAMING MEASURING CUP. ARTHUR I. RISSER, Chicago, Ill., assignor to U. S. Bottlers Machinery Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 6, 1920. Serial No. 415,008. 9 Claims. (Cl. 226—106.)



1. In mechanism of the class described, an open mouthed cup and stationary means around the cup providing passages from points below the edge of the cup upward to the edge of the cup, for the purposes set forth.

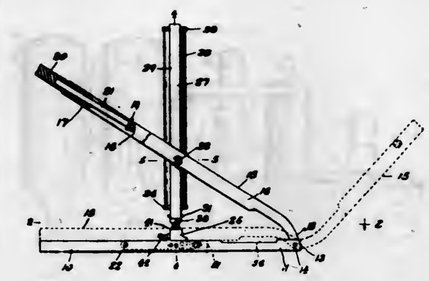
1,385,496. ACCELERATOR FOR AUTOMOBILES. AUGUST C. ROSENBROOK, Madison, Wis. Filed Nov. 3, 1919. Serial No. 335,441. 2 Claims. (Cl. 74—39.)

2. In an automobile, the combination of the arm on the rotatable throttle control rod, a foot operated lever, a throttle link, and a member having connection with said arm, lever and link, said member having a stop



portion to limit the swinging movement of said link in one direction.

1,385,497. AIR-PUMP. PATRICK M. SCANLAN, Brooklyn, N. Y. Filed Sept. 10, 1919. Serial No. 322,817. Renewed Jan. 27, 1921. Serial No. 440,529. 7 Claims. (Cl. 230—27.)

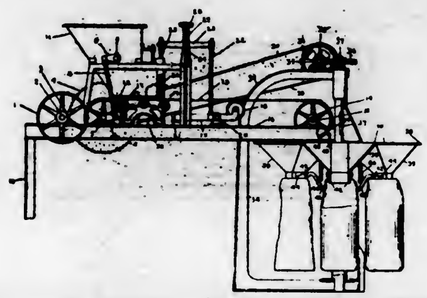


7. A pump device of the class described comprising a substantially U-shaped base, a supplemental base member pivotally mounted between the sides of said base adjacent to the cross head end thereof, a lever pivotally mounted between the sides of said base adjacent to the cross head end thereof, a lever pivotally mounted in connection with the free ends of the sides of said base, a pump mechanism involving a cylinder, a piston and a rod connected with said piston in passing out through one end of said cylinder, a frame member in which said cylinder is mounted, means for pivotally connecting said lever with said frame member, means for pivotally connecting the protruding end of said rod with said supplemental base member, said supplemental base member being adapted to be moved into two positions within said base in folding the separate parts of the pump together and extending the same when in use, and a catch device for locking for supplemental base member in connection with said base when the parts of the pump are in operative position.

1,385,498. PACKAGING MECHANISM. JOHN C. SCHAFFER, Tiffin, Ohio. Filed Apr. 26, 1915. Serial No. 24,172. 6 Claims. (Cl. 226—61.)

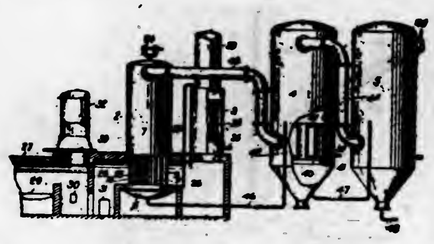
1. A supply way for material, means for maintaining material flow of the way continuous, and uniforms for equal lineal portions giving equal weights, including a conveyer belt, receivers beyond the conveyer belt to which

the way delivers, and driving means between the belt and receivers including relatively movable members succes-



sively shifting the receivers for separating a definitely weighed flow portion from the way for each receiver.

1,385,499. EVAPORATOR. HENRY G. SCHWARZ, Denver, Colo. Filed June 25, 1918. Serial No. 241,890. 3 Claims. (Cl. 127—18.)

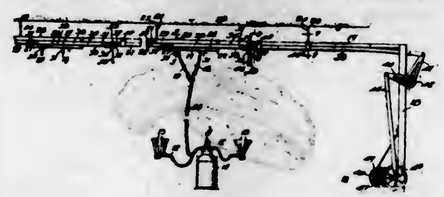


2. In a system for the concentration of liquids, the combination of a substantially horizontal flue, an evaporator comprising two closed chambers disposed respectively above and below a determined portion of the flue, the upper chamber having an opening for the escape of vapors and the lower chamber having an opening for the discharge of material of increased density, circulation tubes and heating tubes of relatively smaller diameter, which connect the chambers and pass transversely through the flue, the heating tubes being disposed foremost with relation to the direction of the flow of gases from the furnace whereby to shelter the circulation tubes, and a conduit for feeding liquid to the evaporator.

1,385,500. COW-MILKING APPARATUS. WARREN A. SHIPPERT, Chicago, Ill., assignor to The Burton Page Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 16, 1918. Serial No. 258,357. Renewed Dec. 17, 1920. Serial No. 431,499. 22 Claims. (Cl. 31—98.)

1. In milking apparatus, the combination with a series of stations at which milk receiving means are adapted to be positioned, of a series of milking pumps, one arranged adjacent each of said stations, a driving element and means for severally operatively connecting or disconnecting said pumps from said driving element.

7. In milking apparatus, the combination with milk receiving means, of a plurality of milking pumps comprising, in each case, a fixed cylinder and a piston and rod reciprocable and revoluble in said cylinder, the piston rod being formed with a bend at its extremity, a reciprocating driving element provided with means adapted to be engaged by the bent extremities of said piston rods whereby the pumps may be operatively connected with or may be disconnected from said driving element, and a pair of cranks for each piston rod connected at opposite sides to the end of the bent portion of the piston rod provided with pull members for the purpose described.



10. In milking apparatus, the combination of a supporting structure comprising timbers secured end to end and means for suspending the same from the ceiling of the cow barn, a plurality of milking pumps fixed to said structure, a driving element comprising a plurality of wooden strips arranged end to end in spaced relation, and a pair of spaced metal straps connecting each strip with the adjacent strip and lying on opposite sides of said pumps, stirrup members attached to the supporting structure for slidably sustaining the driving element, means for reciprocating said driving element and coöperating engaging devices associated with the driving element and pumps whereby the pumps may be operatively connected with or disconnected from the driving element.

12. In milking apparatus, the combination of a horizontal supporting member, a plurality of pump cylinders secured thereto at intervals, a driving element slidably arranged on said support having portions which extend around the pump cylinders, pistons in said cylinders having piston rods, the extremities of which are formed with bends, engaging devices on said driving element with which, through rotation of the pistons and piston rods the bends of the piston rods may be engaged by said driving element, the bent ends of the piston rods being provided, in each case, with a pair of oppositely arranged cranks, and pull members for the purpose described.

17. In a cow milking apparatus, the combination of an upright support, a rock shaft mounted on said support provided with a pair of rigid arms standing at an angle to each other, means attached to one of said arms for rocking said rock shaft, a horizontal support fixed at one end to the upright support and provided with means for suspending it from the ceiling of the cow barn, a plurality of pump cylinders secured to the under side of said horizontal support, a driving element pivoted to the other arm on the rock shaft and comprising members arranged end to end in spaced relation and straps connecting said members which lie on opposite sides of said pump cylinders, pistons in said pump cylinders having piston rods the ends of which are bent and provided with oppositely projecting cranks having pull members, and means on said driving element providing pairs of depending lugs with which the bent ends of said piston rods are adapted to be releasably engaged.

1,385,501. DRILL-CHUCK. HARRY B. SHREVE, Chicago, Ill., assignor to Lovejoy Tool Works, Chicago, Ill., a Corporation of Illinois. Filed Jan. 5, 1917. Serial No. 140,660. 3 Claims. (Cl. 279—56.)

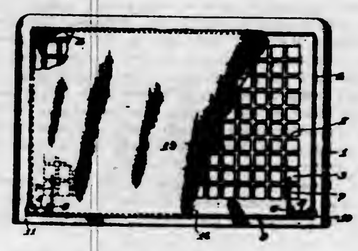
1. In a chuck, the combination of an axially bored head provided with oppositely arranged longitudinally extending slots, a stop extending through said slots and out of the head at each side, and a collar rotatably embracing the ends of said stop, said collar being adapted to engage the

head and hold the stop in desired position, said collar and stop being slidably movable longitudinally of said head,



and coöperating threads on said collar and head for locking said collar and stop in adjusted positions.

1,385,502. AIR-FILTER. FLORENCE E. SMITH and FRED B. SMITH, Detroit, Mich. Filed Dec. 20, 1920. Serial No. 431,861. 3 Claims. (Cl. 183—51.)



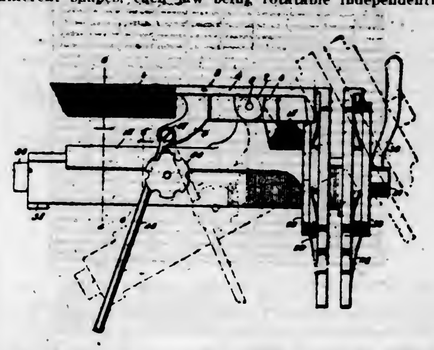
1. A filter adapted for attachment to a support, said filter comprising an inverted U shaped frame having hook shaped ends which may be sprung into engagement with the support to stress the frame and cause said frame to frictionally engage the support, a rod having coiled ends with one end of the rod pivotally held at one end of said frame, and the other rod end detachably held at the opposite end of said frame, and a fabric screen having a casing through which said rod extends, said screen being of larger area than said frame so that the edges of said screen may be placed under said frame.

1,385,503. FOOD PRODUCT. SHERWOOD P. SNYDER, Dayton, Ohio. Filed Dec. 15, 1919. Serial No. 345,005. 5 Claims. (Cl. 99—1.)

1. A food product of the character described comprising a mass of starchy materials cooked in an acidifying liquid, to which are added fatty and albuminous materials, a vegetable oil and condiments.

1,385,504. VISE. FREEMAN W. STROH, Barberton, Ohio. Filed Jan. 8, 1919. Serial No. 270,245. 2 Claims. (Cl. 81—20.)

1. A vise including a supporting bracket, a guide bracket pivotally connected to the supporting bracket, a jaw rotatably mounted on the guide bracket, and provided with a plurality of gripping members having relatively different shapes, a movable jaw supporting member operatively connected to said guide bracket and movable toward and away from said jaw, and a second jaw rotatably mounted on the jaw supporting member and provided with a plurality of gripping members of relatively different shapes, each jaw being rotatable independently



of the other jaw to bring either of the gripping members of the jaw into position to coöperate with either of the gripping members of the other jaw, a pendent ear upon the supporting bracket, a rod pivotally connected to said ear, and a clamp carried by said guide bracket and adjustably connected to said rod.

1,385,505. IMPRESSION-TRAY. SAMUEL GARFIELD SUPPLEE, East Orange, N. J. Filed May 2, 1921. Serial No. 466,090. 3 Claims. (Cl. 32—6.)



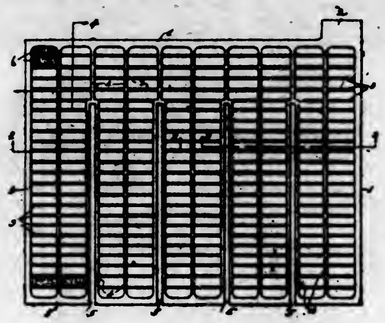
3. An impression tray formed of moldable material with a tongue having one end partially cut out, but normally lying in the plane of the body of the material and adapted to be bent therefrom, a space being provided between the bendable end of the tongue and the adjacent portion of the body of the tray to permit of the insertion of an instrument for bending said tongue.

1,385,506. WRENCH. SILAS L. TAYLOR, Wileyville, W. Va. Filed Mar. 14, 1921. Serial No. 451,956. 1 Claim. (Cl. 81—126.)



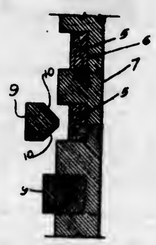
A wrench of the class described, comprising a stationary jaw, a shank formed thereon and provided with an elongated sleeve, the end of said shank opposite said jaw being curved outwardly to form a projection thereon, a movable jaw, a shank formed thereon slidably arranged in said sleeve, a handle member having its inner end portion designed Y-shaped to form a pair of projections, one projection of said handle member being pivoted to the projection on the first mentioned shank, and a link member pivoted at its one end to the inner end of the second mentioned shank and pivoted at its opposite end to the other projection on said handle member, whereby through oscillation of the handle member said movable jaw is disposed to its open and closed position.

1,385,507. BATTERY-PLATE. THOMAS W. THOMSON, Los Angeles, Calif. Filed Nov. 3, 1919. Serial No. 336,742. 1 Claim. (Cl. 204—29.)



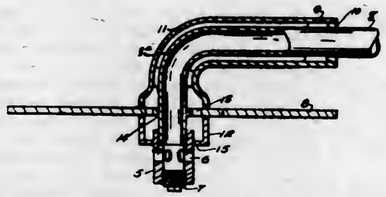
A grid for a battery plate comprising a border frame with cross supporting bars spaced apart and connected at their ends to the border frame, vertical bars extending from the top to the bottom of said frame, the alternate vertical bars being of slotted form for the greater part of their lengths, said slot extending through the lower border frame member, whereby to form spaced panels composed of cross bars with side and middle vertical bars, substantially as shown in the drawings and described in the specification.

1,385,508. PISTON-RING. LOU J. TREMBLEY, Denver, Colo., assignor, by direct and mesne assignments, of one-half to William Cohagen and one-half to William Wyscarver, Jr., Denver, Colo. Filed Sept. 20, 1920. Serial No. 411,612. 4 Claims. (Cl. 74—109.)



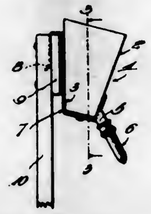
1. A piston packing composed of an outer expansion metallic ring and an inner layer of cork, the inner surface of the ring being constructed to readily penetrate the cork to form a seal.

1,385,509. GAS-BURNER. JESSE LYLE VANCE, Pomona, Calif. Filed Mar. 30, 1920. Serial No. 369,913. 6 Claims. (Cl. 158—99.)



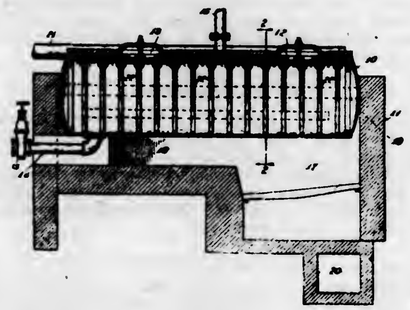
3. A gas burner comprising a fuel mixture supply pipe having a downwardly extending discharge portion, a burner tip mounted on the lower end of said discharge portion, an auxiliary air distributer mounted upon the down-turned portion of the feed pipe and above the outlets of the burner tip, a deflecting plate mounted above the air distributer, and an air supply jacket surrounding the fuel mixture supply pipe and attached to the air distributer so that air to facilitate combustion will be drawn into and through said jacket by the combustion of fuel beneath the deflecting plate.

1,385,510. FEED-TROUGH. JAMES WALTER WARD, Mount Vernon, Ill. Filed Nov. 1, 1920. Serial No. 421,090. 1 Claim. (Cl. 119—71.)



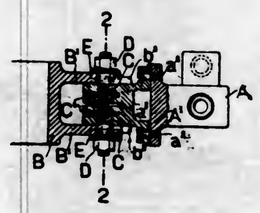
A device of the class described comprising an elongated substantially rectangular trough, open at its top and provided with inwardly and downwardly inclined front and rear sides of substantially the same height, said front side being provided adjacent its bottom with a plurality of spaced exteriorly disposed downwardly inclined outlet necks, nipples on the ends of the latter, a plurality of substantially V-shaped partitions in the trough dividing the latter into a plurality of separate compartments, one of said necks leading from each of the compartments, said partitions being of substantially the same height as the aforesaid sides of the trough, and supporting brackets for the trough provided at their lower ends with inclined hooks receiving the lower end of the trough for retaining the latter in an inclined position, portions of said brackets extending upwardly and bearing against the rear side of the trough and being formed at their free ends with hooks adapted to take over a supporting board or the like.

1,385,511. MANUFACTURE OF ASPHALT. HENRY R. WARDELL, New York, N. Y., assignor to Central Commercial Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 30, 1919. Serial No. 320,906. 5 Claims. (Cl. 196—25.)



1. The method of manufacturing asphalt which consists in compounding a mixed base petroleum residuum and an asphaltic base petroleum residuum, and then maintaining the said mixed residuums at a temperature above that required for complete expulsion of water vapor but below that of destructive distillation while simultaneously blasting the charge with air until an asphalt which is solid at ordinary temperatures is obtained.

1,385,512. FASTENING MEANS FOR OPTICAL INSTRUMENTS. WILHELM WITTIG, Augsburg, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Feb. 14, 1921. Serial No. 444,899. 2 Claims. (Cl. 287—23.)



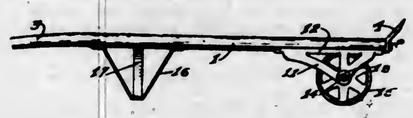
1. An arrangement of the class described comprising a projection, said projection being slotted, a slotted sleeve for receiving said projection and means for forcing the parts of the projection which are separated by the slot radially against the sleeve.

1,385,513. CONTROLLER FOR GAS-BURNERS. FREDERICK W. WOLF, Chicago, Ill. Filed Sept. 10, 1920. Serial No. 409,352. 6 Claims. (Cl. 126—52.)



1. The combination with a burner; of a fuel controlling valve therefor comprising a casing having a fuel passageway and a chamber intersecting the same, a ported valve in the chamber, said valve being rotatable to bring its port into and out of registry with the fuel passageway, and also slidable in the chamber to obtain a complete and a part registry of its port with the fuel passageway, an article-controlled means associated with the burner and having an operative connection with the valve for effecting the aforesaid sliding movement thereof, and means for controlling the extent of such sliding movement of the valve.

1,385,514. REINFORCED TRUCK. GUILFORD S. WOOD, Chicago, Ill. Filed June 13, 1918. Serial No. 239,710. 3 Claims. (Cl. 280—56.)



3. A truck frame including tubular sills, cylindrical cross-tubes joined at their ends to the respective sills and rigidly connecting said sills together, prismatic tubes within said sills and cross tubes to reinforce the same, each of the prismatic tubes within a cross tube being joined at its ends to the respective sills.

1,385,515. PROCESS FOR THE PRODUCTION OF ALCOHOL FROM GAS CONTAINING ETHYLENE. CLEBURNE A. BASORE, Auburn, Ala. Filed Mar. 14, 1921. Serial No. 452,285. 11 Claims. (Cl. 23—24.)

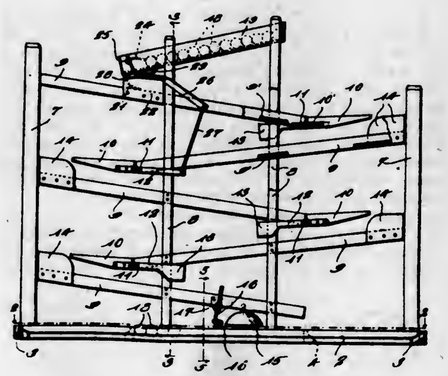
2. The hereindescribed process for the production of ethyl alcohol from a mixture of sulfuric acid and ethyl hydrogen sulfate, which consists in adding to said mixture water in amount equal to from 50 per cent. to 70 per cent. of the volume of the said mixture, subjecting the resultant reacting constituents to heat in a closed vessel, then distilling off the alcohol and water, and finally condensing the alcohol.

1,385,516. HAND-TOOL. WILLIAM A. BERNARD, New Haven, Conn., assignor to The William Schollhorn Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 26, 1919. Serial No. 292,967. 14 Claims. (Cl. 140—121.)



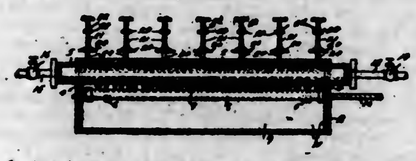
1. A wire twisting tool having transversely extending flat recessed surfaces to engage the angularly disposed projecting ends of a wire so that they may be twisted together, and means extending entirely across in front of the engaging surfaces to retain the projecting ends of said wire against slippage from said tool, during the twisting operation.

1,385,517. TOY. CLARENCE W. BLACKBURN, South Greensburg, Pa. Filed Dec. 16, 1920. Serial No. 431,237. 5 Claims. (Cl. 46—61.)



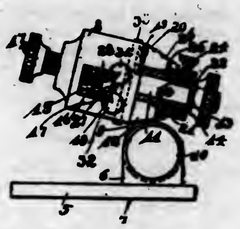
1. A toy comprising a series of oppositely disposed inclined tracks positioned one above the other and each having a pivotally mounted lower end portion movable into and out of engagement with the upper end of a succeeding track bar, arms extending from the pivoted end portions of the tracks, certain of said arms being weighted and the arm of one pivoted end portion unweighted, a receptacle above the upper track having an outlet above the upper track, rollers in said receptacle above the upper track, rollers in said receptacle freely movable for passing successively through the outlet onto the upper track, and a guard for the outlet operatively connected with the unweighted arm and moved by a roller passing over its coöperating pivoted track end to permit a single roller to pass out of the receptacle and retain other rollers in the receptacle.

1,385,518. VULCANIZER. MICHAEL BOYLAN, Omaha, Nebr. Filed Nov. 12, 1919. Serial No. 337,387. 3 Claims. (Cl. 18—18.)



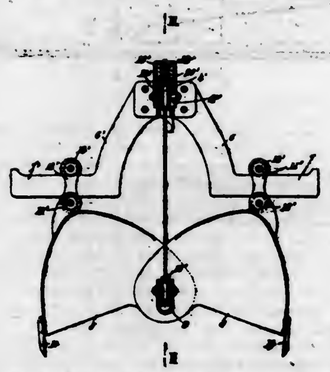
1. A vulcanizer comprising a vulcanizing plate, clamps carried by said vulcanizing plate for clamping an article to be vulcanized on said plate, means for vertically and horizontally adjusting said clamps, a casing for supporting said vulcanizing plate, a steam generating cylinder disposed within the casing, and adjacent the under face of the vulcanizing plate, a burner within the casing and disposed below the steam generating cylinder and a pipe connected to one end of the steam generating cylinder, said pipe having connected to its other end a vulcanizing block.

1,385,519. CUTTING-TOOL HOLDER. LESLIE F. CALHOUN, Los Angeles, Calif. Filed Oct. 5, 1920. Serial No. 414,920. 7 Claims. (Cl. 51—220.)



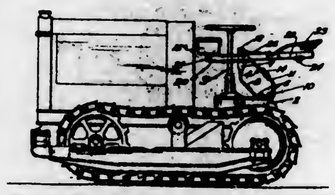
1. In a cutting tool holder, a base member having a planed-off underside to be placed on the base of a grinding wheel forming the guiding and supporting means of the device, a swinging member engaging with the base member in a practically vertical plane, a body member having means for engaging with the swinging member in a rotary manner practically crosswise to the swinging motion of the swinging member and having an aperture transversely to its turning engaging means, and engaging means disposed in the body member for holding cutting tools within the aperture of the body member.

1,385,520. AUTOMATIC EXCAVATING-BUCKET. JOSEPH CORNELOUP, Paris, France. Filed May 17, 1920. Serial No. 382,193. 4 Claims. (Cl. 37—30.)



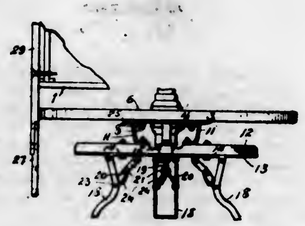
1. In an automatic crane bucket, a main frame with approximately horizontal guideways for the lateral suspension of the bucket shells, bucket shells having a central articulation shaft and means for suspension situated at each side of the said guideways, and means whereby the articulation shaft can be raised against the action of gravity with reference to the said guideways for the purpose of closing the bucket shells.

1,385,521. TRACTOR-SEAT. SAMUEL J. COUGHRAN, Buena Park, Calif. Filed Nov. 11, 1920. Serial No. 423,399. 4 Claims. (Cl. 155—51.)



1. A spring seat comprising a support including members alongside one another and each comprising a base portion, an upright arm at one end thereof, and a forwardly projecting arm at the other end, a bracket carrying the seat pivoted to said forwardly projecting arms, and a yieldable spring connection between said bracket and the upright arms.

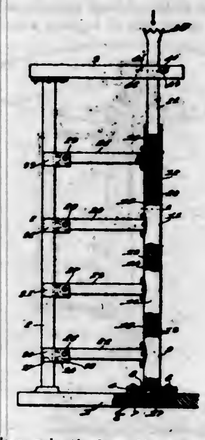
1,385,522. WIRE-REEL. ESTEL L. CROSWHITE, Kansas City, Mo. Filed Jan. 23, 1920. Serial No. 353,552. 5 Claims. (Cl. 242—95.)



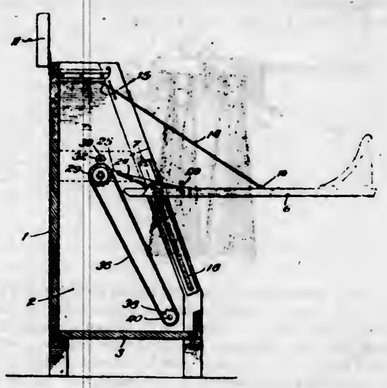
1. In a wire reel, the combination with a base member having means for attachment to a suitable support, of a member rotatable thereon, a plurality of wire bundle holding devices carried by the rotary member, and a member pivoted to the base member and having two oppositely facing hooks, either of which is adapted for being releasably locked to the rotary member.

1,385,523. MINER'S DRILL-HOLDER. CHRISTOPHER DEVENISH, Bossburg, Wash. Filed Apr. 24, 1920. Serial No. 376,342. 4 Claims. (Cl. 76—5.)

1. In a device for supporting miner's drills of the same diameter and of different lengths for sharpening purposes, a frame including a base, a holder on said frame for the shank of the drill near the drilling end to be sharpened, and a plurality of supporters for supporting the remaining ends of drills of different length and transmitting the hammer sharpening thrust to the base, said supporters being selectively adjustable out of or into operative position for supporting drills of different lengths.



1,385,524. VERTICAL FILE. CARL F. DIECKMANN, Chicago, Ill., assignor to Eugene Dietzgen Company, Chicago, Ill., a Corporation of Delaware. Filed Apr. 26, 1920. Serial No. 376,543. 11 Claims. (Cl. 45—2.)

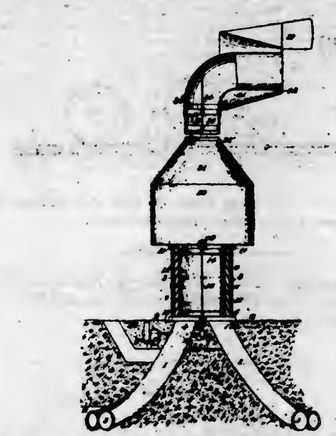


1. A filling cabinet having a movable front, supporting means pivotally attached to said front between its upper and lower ends, and a power device attached directly to the lower end of the front and adapted to vary its elevation to thus control the angle of inclination of said front.

1,385,525. PROCESS OF EXTRACTING PECTIN. THEODORE WILLIAM DOELL and LOUIS A. F. MAES, Corona, Calif. Filed Dec. 22, 1919. Serial No. 346,740. 1 Claim. (Cl. 99—11.)

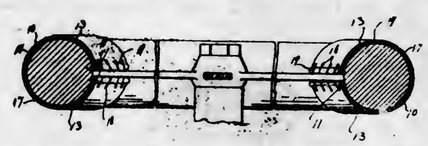
The process of obtaining pectin consisting in boiling pectin bearing substances in water containing a small amount of acid, adding a bleaching agent, filtering the mass to obtain an extract, precipitating the pectin by the addition to the clear decoction of a salt of the alkali or earth alkali group, removing and washing the precipitate, and then drying and powdering the resultant mass.

1,385,526. POWER-GENERATING APPARATUS. DEIANA DOMENICO, San Francisco, Calif. Filed Dec. 27, 1920. Serial No. 433,178. 2 Claims. (Cl. 253—38.)



1. An atmospheric power generator including a plurality of open tubes disposed with their discharge ends radiating from a common point and embedded in the earth with their receiving ends communicating with the atmosphere at a point below their discharge ends, a cylindrical vertically disposed chamber into which the discharge ends of said tubes discharge, a power cylinder rotatably mounted on a vertical axis within said chamber and of a diameter less than that of said chamber, providing a restricted air passage between the periphery of said cylinder and said chamber wall, a series of vanes carried by and projecting outwardly from the periphery of the cylinder, said vanes being disposed spirally longitudinally of the cylinder with their edges in extreme close proximity to the inner surface of said chamber wall, an expansion chamber communicating directly with the upper end of said restricted air passage and of a cross sectional area considerably greater than that of said air passage, a stack extended vertically from said expansion chamber, an elbow rotatably supported on the upper end of said stack, a direction vane carried by said elbow, and a cone around said elbow and converging toward its discharge end and spaced therefrom.

1,385,527. HAND WARM OR GRIP FOR STEERING-WHEELS. SOLON DUER, St. Paris, Ohio. Filed Feb. 11, 1920. Serial No. 357,972. 2 Claims. (Cl. 219—46.)

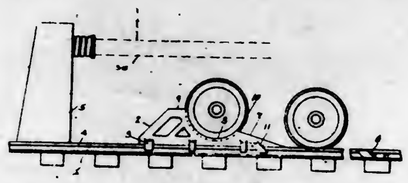


1. A heating device for steering wheel rims, comprising a web of flexible rubberized fabric having its margins folded over upon the body of the fabric, reinforcing wires extending longitudinally between said folded over margins and the body of the fabric and disposed adjacent the fold, and a heating element disposed between the body and said margins of the fabric and adapted to be connected at its extremities to a source of current.

1,385,528. CAR-STOP SHOE. JAMES U. DUFFY, Cleveland, Ohio, assignor to The Friction Car Stop Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 5, 1919. Serial No. 342,813. 6 Claims. (Cl. 104—260.)

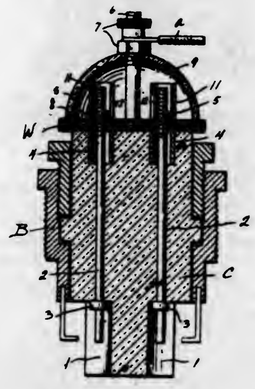
1. A shoe for car stops, comprising a member adapted to be slidably mounted on a rail with stops, said member

comprising a curved, wheel receiving portion and an inclined forward portion, the forward portion forming a



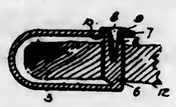
hump adapted to hold said wheel in said shoe during return movement of said wheel toward the stop.

1,385,529. SPARK-PLUG. WILLIAM M. ELLIS, Kenton, Ohio. Filed Jan. 10, 1920. Serial No. 350,657. 5 Claims. (Cl. 123—169.)



1. A spark plug including a core, a conductor wire disposed through the core, a post carried by the core and adapted to be connected with a source of electrical energy, said post being to one side of an end portion of the conductor wire, and means for insulating, at will, the conductor wire from the post.

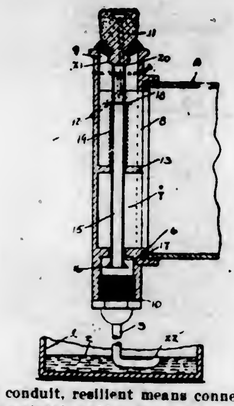
1,385,530. MARKING-TAG. PETER FRANK ELZI, Denver, Colo. Filed Mar. 1, 1920. Serial No. 362,440. 1 Claim. (Cl. 40—3.)



The method of forming animal ear-tags from metallic rods, which consists in stamping a portion of the length of the rod in a stamping-press to flatten the same, cutting a hole in one end of said flattened portion, bending up said flattened portion into U-shape between shaping-dies, and drilling a socket in the free end of the unflattened portion.

1,385,531. LUBRICATING APPARATUS. WILLIAM FAHEY, Cleveland, Ohio. Filed Aug. 9, 1919. Serial No. 316,428. 5 Claims. (Cl. 184—103.)

5. A lubricant reservoir comprising a cylindrical vessel having one open end and a metal cover sealed to said vessel to close such open end, such cover being provided with a conduit therein open laterally to said vessel and having alined openings at either end thereof, a valve in said conduit adjacent the bottom thereof, a rod connected to said valve and extending to a point adjacent the other



end of said conduit, resilient means connected to said rod to normally maintain said valve in its closed position, and a removable valve at the other end of said conduit and adapted in its closing position to engage said rod to open said first named valve whereby only one valve may be open at one time.

1,385,532. BRUSH. WILLIAM FEDER, Chicago, Ill., assignor to Theo. B. Robertson Products Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 16, 1919. Serial No. 317,864. 1 Claim. (Cl. 15—13.)



A brush, comprising a head, having a holder and a back piece, said holder having slots therein extending therethrough from front to back and extending lengthwise thereof less than the whole length of said backpiece, whereby each end of each slot is closed by an end portion of the back piece, bristles completely and uniformly filling each slot from end to end thereof, a wedge-shaped strip in each slot, the edge of the wedge being toward the front of the brush, the back of the wedge and the back ends of the bristles being flush with the rear face of the holder, the back piece contacting with said rear face of the holder, the rear ends of the bristles and the backs of the wedges, waterproof cement securing the bristles, wedges and back piece together, and supplemental fastening means securing the wedges in the slots and the back piece to the holder.

1,385,533. GARMENT-BELT STRUCTURE. SAMUEL FEINSTONE, Brooklyn, N. Y., assignor of one-half to Freydberg Brothers Inc., New York, N. Y., a Corporation of New York. Filed Mar. 3, 1921. Serial No. 449,361. 3 Claims. (Cl. 2—142.)

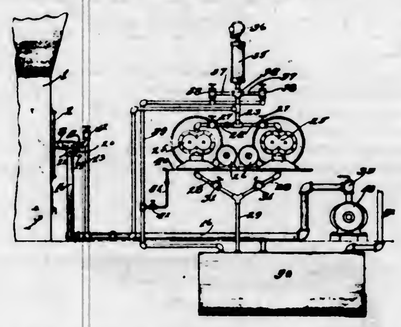
1. A garment belt adapted for attachment to a garment waist band, comprising a strip of belt fabric having back-folded ends forming end-folds, and fasteners, each having a body of substantial width and rigidity with one

end located near one edge of the fabric strip and the other end located a substantial distance inward from the other edge of the strip, one fastener having eyes, one near each end of the outer edge of the body, projecting through



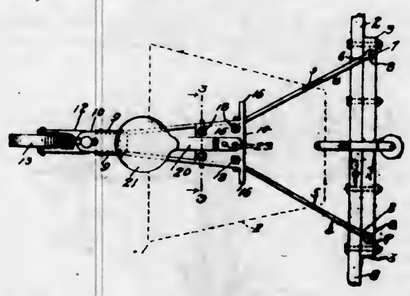
holes in one of said belt-strip end folds, and the other fastener having hooks to coöperate with the eyes, one near each end of the outer edge of the body of said fastener, projecting through holes in the other of said belt end folds.

1,385,534. OIL-BURNER SYSTEM FOR FURNACES. ALFRED FISHER, Chicago, Ill. Filed Feb. 20, 1920. Serial No. 360,218. 4 Claims. (Cl. 158—4.)



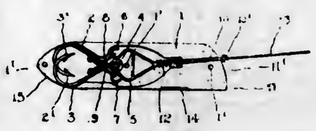
1. In a furnace the combination with the furnace fire box, of blast burners mounted to direct flames into said firebox, and a plurality of rows of curved upright baffle plates mounted on the firebox floor, each of said baffle plates having one of the corners thereof cut away to afford a curved deflecting edge.

1,385,535. HARROW-CART. DANIEL B. FRISBY, Dumont, Iowa. Filed Jan. 20, 1920. Serial No. 352,699. 2 Claims. (Cl. 55—91.)



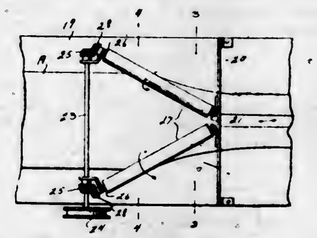
1. In a device of the class described, the combination of a pair of diverging arms, a tapering plate resting upon said arms, said plate comprising a flat body having at its front ends oppositely-extending foot rests, said body provided near its side edges with pairs of apertures, the pairs of apertures being formed in a converging position with respect to each other, clamping bolts extending through said apertures and partly surrounding the arms, nuts on said bolts and engaging said plate for clamping the plate upon the arms, said plate provided near the center of its body with a pair of apertures, a seat standard resting at its front end flat upon said plate, bolts extending through said seat standard at its front end and through the pair of centrally-arranged apertures, a seat carried by said standard, a wheel, and means for supporting said arms upon said wheel.

1,385,536. ARTIFICIAL FISH-BAIT. STUART B. GLEASON, Passaic, N. J. Filed Jan. 12, 1920. Serial No. 350,738. 1 Claim. (Cl. 43—36.)



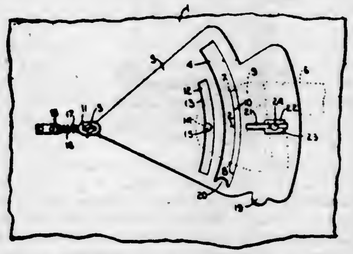
In a device of the character described, a body, a hook normally concealed and pivotally hung therein, a yoke, a connecting link between the yoke and a point intermediate the ends of the hook and a lead attached to the yoke whereby the hooks may be projected beyond the surface of the body, substantially as shown and described.

1,385,537. MEANS FOR UNCURLING FILMS OR STRIPS. GEORGE GOUDIS, Detroit, Mich. Filed Jan. 15, 1921. Serial No. 437,558. 7 Claims. (Cl. 91—10.)



1. The combination with means for applying a coating to a film and a drier for the film through which the film is carried, of means for flattening the film transversely comprising flattening members disposed in the path of travel of the film and converging toward each other in the direction from which the film is moving.

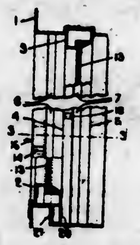
1,385,538. WORK SUPPORTING AND GUIDING DEVICE. CHARLES A. GREEN, St. Louis, Mo., assignor of one-half to John E. Swanson, Boston, Mass. Filed Nov. 15, 1919. Serial No. 338,357. 5 Claims. (Cl. 112—2.)



1. A work supporting and guiding device for sewing machines comprising a manually movable pivotally mount-

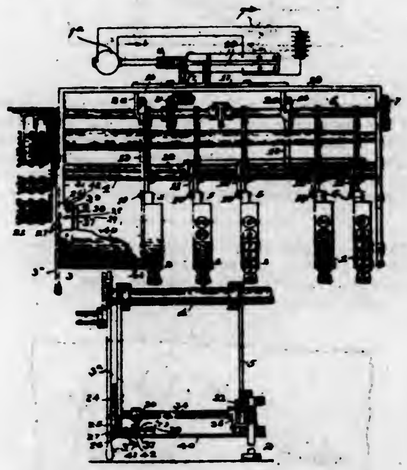
ed work supporting member having an arcuate slot therein to provide a path for the needle, and an arcuate guide located beneath said slot for indicating the position for the work upon said work supporting member to cause the needle to produce a predetermined line of stitching in the work as the work supporting member is moved about said pivot.

1,385,539. WINDOW. JOSEPH GREENBURG, Boston, Mass. Filed Jan. 20, 1920. Serial No. 352,869. 4 Claims. (Cl. 20—43.)



2. In a window, the combination with a window frame having a guiding groove in each side, of a sash having trunnions operating in said grooves and also having projections normally received in the grooves which coöperate with the trunnions in holding the sash in operative position, said window frame having slots through one wall of each groove to permit the projections to be removed from the grooves and the window sash to be swung into horizontal position, and slides for closing said slots.

1,385,540. CASH-REGISTER. HENRY S. HALLWOOD, Columbus, Ohio, assignor to The City National Bank, Columbus, Ohio. Filed Apr. 11, 1914. Serial No. 831,108. 36 Claims. (Cl. 235—11.)

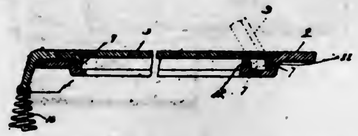


1. A registering and accounting machine of the type embodying an intermittently actuated operating mechanism including a master element common to a plurality of manipulative value determining elements and identity determining elements arranged in separate series and each having a part in governing the performance of said operating mechanism, characterized by a locking detent normally engaged in locking position to prevent the operation of said master element and means controlling the detent to disengage it from said master element by the manipulation of an amount determining element independent of the operation of an identity determining element.

6. In a machine of the character described, the combination with an operating mechanism, electrically operated actuating means therefor, an electric circuit controlling same and manipulative amount determining and identity determining elements controlling the performance of the operating mechanism, of separate independently operated contact members in said electric control circuit and means controlled by the operation of an amount determining element for operating one of said contact members independent of the operation of an identity determining element, and means controlled by the operation of an identity determining element for operating the other contact independent of the operation of an amount determining element.

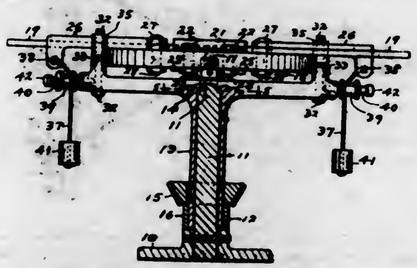
29. A registering and accounting machine embodying an operating mechanism the performance of which is controlled by a plurality of setting elements for values and setting elements for identification, characterized by a plurality of independently operated operation prevention devices normally in simultaneous engagement with the operating mechanism and disengaged solely by the operation of a value setting element and an identification setting element respectively, and preventing a registration of said operating mechanism unless one of each of said setting elements has been operated.

1,385,541. STOVE. GEORGE HAMMER, Oakland, Calif. Filed Dec. 16, 1920. Serial No. 431,064. 4 Claims. (Cl. 126—211.)



1. A closure comprising the combination of a flat member having a rectangular opening therein, a ledge formed around said opening, a plate forming a closure for said opening, and adapted to rest on said ledge, said ledge having a laterally extending opening in the side wall thereof, a stud on said plate adapted to enter said opening, and a shoulder on said plate adapted to engage said member when said plate is removed laterally.

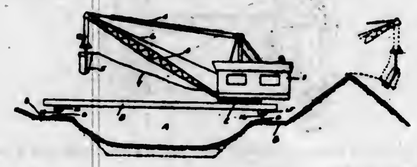
1,385,542. MACHINE FOR BENDING RODS, BARS, OR THE LIKE. HAROLD J. HARDY, Cleveland, Ohio. Filed Dec. 29, 1919. Serial No. 348,138. 6 Claims. (Cl. 153—46.)



1. In a machine for bending a metal rod, bar or the like, a substantially horizontal bed, two spaced levers arranged over and fulcrumed to the bed and movable in a horizontal plane and arranged to engage opposite sides

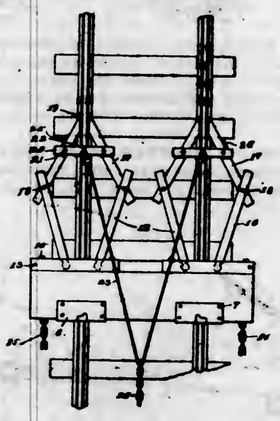
respectively of one and the same bar or rod to be bent laterally, means for affording lateral support between said levers to said rod or bar, two lever-actuating members movable circumferentially of the bed and arranged diametrically opposite, and means for moving said lever-actuating members simultaneously in the same direction circumferentially of the bed, one of the levers extending into the path of one of said lever-actuating members, and the other of said levers extending into the path of the other of said lever-actuating members.

1,385,543. DERRICK OR EXCAVATING-MACHINE. JACOB A. HARMAN, Peoria, Ill. Filed Sept. 12, 1919. Serial No. 323,330. 4 Claims. (Cl. 37—55.)



1. In a derrick or excavator, in combination, a pair of wheel supports, one longer than the other to provide a three point suspension frame, a span for a ditch, comprising a beam connected to the short wheel support and one end of said longer wheel support, bracing and supporting means for said beam, and a revolving derrick mounted on said span, off center or eccentric to the width thereof, and at a short distance from the center line of one of said supports.

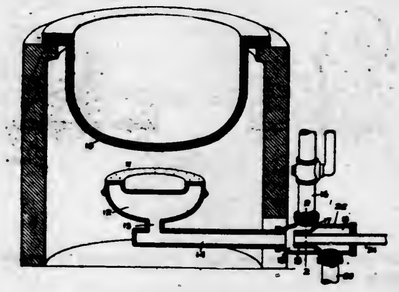
1,385,544. BRAKE. WILLIAM T. HARRIS, Harrodsburg, Ky. Filed May 21, 1920. Serial No. 383,092. 5 Claims. (Cl. 188—44.)



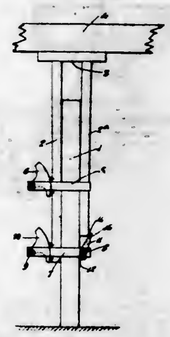
1. In combination with the rails of a railway track, a chock including a body portion, pivoted clamping arms carried by the body portion, means for raising the arms out of engagement with the rails, and said clamping arms adapted to clamp the rails upon movement of the body portion in one direction.

1,385,545. GAS-BURNING APPLIANCE. JOHN S. HEALY, Brooklyn, N. Y. Filed June 25, 1920. Serial No. 391,623. 3 Claims. (Cl. 158—118.)

1. In a gas burning appliance, the combination with a burner having a passage leading thereto and directly communicating therewith, of a mixing chamber connected directly with and leading directly into said passage, a nozzle located concentrically at the intake end of said passage and in alinement therewith, means for directing air under pressure into the passage, said nozzle having centrally extending thereinto and terminating at its end a passage for atmospheric air, and means for introducing gas into said chamber at the rear of the end of said nozzle.



1,385,546. ADJUSTABLE STRUT. JESSE E. HODGES, Covington, Ky. Filed Dec. 8, 1916. Serial No. 135,776. 1 Claim. (Cl. 248—3.)

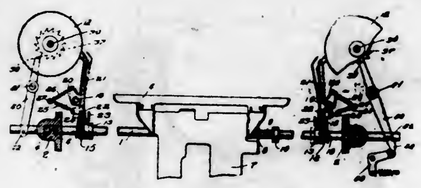


In an adjustable strut, the combination with a central standard and side supports lying along the sides thereof, one of the side supports being shorter than the other, a frame surrounding the standard, a cam clamp pivotally mounted at one end of the frame, and a clamp lock pivotally mounted at the other end of the frame, with said frame located horizontally on the standards, with the cam clamp in a position to engage the longer side support and force it against the central standard, and the clamp lock to engage the under side of the short side support and the side of the central standard with a U-shaped clamp provided with a cam to engage and press the side supports together, located above the lower ends of the side supports, to hold the side supports temporarily prior to adjustment of the lower support, for the purpose described.

1,385,547. AUTOMATIC RIBBON-REVERSE. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Jan. 20, 1919. Serial No. 272,002. 13 Claims. (Cl. 197—160.)

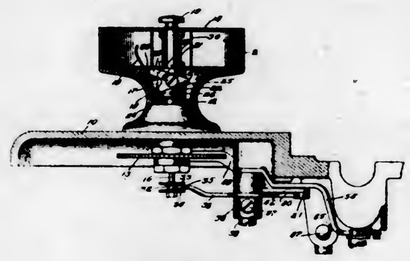
1. The combination with ribbon spools and feeding means therefor, of a reverser comprising a longitudinally

movable shaft which is oscillated about its axis during the ribbon feeding movement, and means controlled by



the ribbon to move the shaft longitudinally to reverse the ribbon feed.

1,385,548. AUTOMATIC RIBBON-REVERSE. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Mar. 10, 1919. Serial No. 281,739. 14 Claims. (Cl. 197—162.)

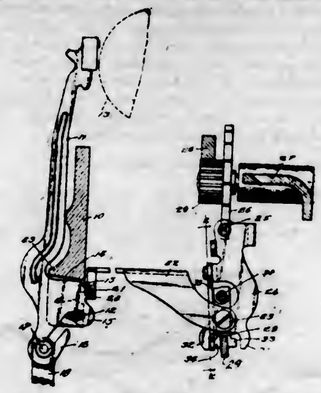


1. The combination with a ribbon spool, of mechanism for rotating said spool, means for reversing said rotating mechanism to cause reversal of the direction of movement of a ribbon wound upon said spool, means for actuating said reversing means, said actuating means being arranged to move at each printing operation, and means controlled by the ribbon on said spool for moving said reversing means into operative relation with said actuating means to cause a reversal of the movement of said ribbon.

2. The combination with a ribbon spool, of a drive shaft therefor arranged to oscillate about its axis, means for shifting said shaft longitudinally of its axis for reversing the rotation of said spool, means actuated by the oscillation of said shaft for actuating the shifting means for said shaft, and a device controlled by the ribbon on said spool for effecting an operative connection between said shaft-shifting means and the actuating means therefor.

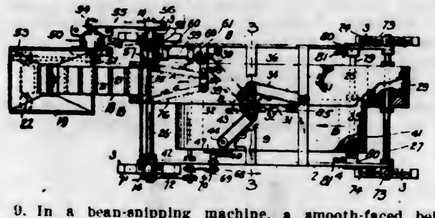
1,385,549. TYPEWRITER MECHANISM. OTTO A. HOKANSON, Woodstock, Ill., assignor to Woodstock Typewriter Company, Woodstock, Ill., a Corporation of Illinois. Filed Mar. 15, 1920. Serial No. 365,966. 3 Claims. (Cl. 197—97.)

1. In a typewriter having escapement mechanism, a dog actuating device for controlling said mechanism, an oscillatory member for operating said dog actuating device, said oscillatory member having fingers for engaging said actuating device; and a stop movable into and out



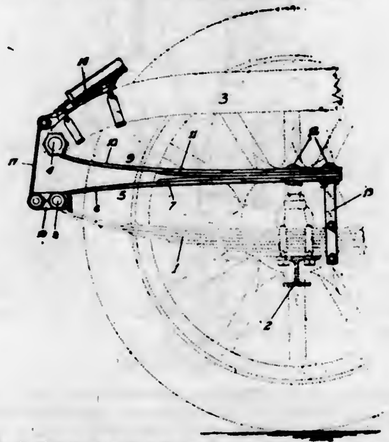
of position between one of said fingers and said dog actuating device.

1,385,550. BEAN-SNIPPING MACHINE. CHARLES J. HOOKER and BEN ROBERTS, Fort Lupton, Colo. Filed Feb. 8, 1919. Serial No. 275,817. 10 Claims. (Cl. 146—11.)



9. In a bean-snipping machine, a smooth-faced belt conveyer, a cutting element beyond an edge thereof, and an obstructive member above the conveyer, extending slantingly toward said cutting element whereby to feed beans carried on the conveyer onto the same.

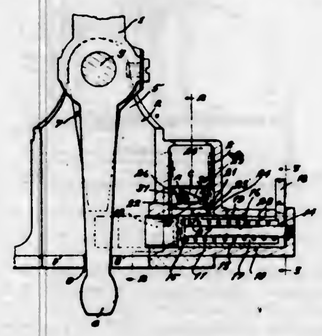
1,385,551. SHOCK-ABSORBER FOR MOTOR-VEHICLES. ALBERT HOWES, Santa Cruz, Calif. Filed Aug. 4, 1920. Serial No. 401,092. 2 Claims. (Cl. 267—8.)



2. A shock absorber for motor vehicles comprising in combination with the frame and main spring of an axle

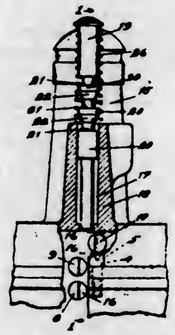
of the vehicle, said spring being disconnected from the frame at the outer end thereof and spaced therefrom, a leaf spring secured to the frame end and extending beyond the axle substantially parallel to the main spring, a second leaf spring connected to the outer end of the main spring and positioned in reverse relation to the first named spring, said springs converging together to lie one on the other at their inner ends, and a support fixed to the main spring and on which such inner spring-ends bear and are secured.

1,385,552. MECHANISM FOR LOCKING LEVERS FULCRUMED FOR UNIVERSAL SWINGING MOVEMENT. GEORGE C. JENSEN, Oakland, Calif. Filed Dec. 7, 1917. Serial No. 206,083. 1 Claim. (Cl. 70—128.)



In combination with a support, a lever, and means with which said lever coöperates for preventing movement of the lever comprising a plunger in said support adapted to engage said lever and at least partially surround the same, means for normally retaining said plunger in disengaged position away from the lever, a lock adapted to engage a part carried by the plunger to retain the same in engaged position with the lever, and an operating member for the plunger having a projecting part accessible to the operator and interengaged with the plunger and the support to maintain the plunger and its locking part in alined position relative to the lock and the lever.

1,385,553. TRANSMISSION-COVER LOCK. GEORGE C. JENSEN, Oakland, Calif. Original application filed Aug. 8, 1918, Serial No. 248,868. Divided and this application filed June 25, 1919. Serial No. 306,699. 4 Claims. (Cl. 70—126.)



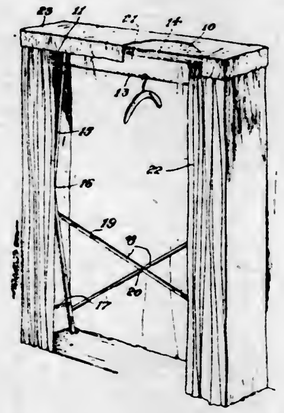
1. In combination with a vehicle transmission having a case member and a removable cover member therefor, a bolt for detachably securing the members together, a shifter device movable within one of said members and capable of movement to prevent the release of said bolt, and means for locking said shifter device from movement when the same is in a position to prevent the release of said cover securing bolt.

1,385,554. REPAIR-LINK. HUGH E. JONES, Oshkosh, Wis. Filed Aug. 19, 1920. Serial No. 404,635. 6 Claims. (Cl. 59—88.)



1. A repair link comprising two complementary links adapted to be superimposed upon each other, the said links being cut away at opposite sides to provide entrance openings for the links of the chains to be connected, one end of one link and the opposite end of the other link being provided with inwardly extending overlapping projections, means for pivotally securing said overlapping projections together, and means on each link for projecting into the entrance opening of the other link to lock said links against relative longitudinal and angular movement.

1,385,555. COLLAPSIBLE WARDROBE. MARY R. KEEGAN, Woodsfield, Ohio. Filed Aug. 16, 1920. Serial No. 403,901. 5 Claims. (Cl. 45—118.)

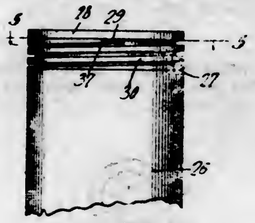


1. A foldable wardrobe structure including a top board, members depending therefrom and hinged thereto, a longitudinally extending rod supported by said members but detachable therefrom, two pairs of normally crossed legs detachably engaged with the ends of the top board on its under side, the legs of each pair being pivoted to each other intermediate their ends, foldable braces connecting one pair of legs to the other pair of legs, and foldable braces connecting the legs of each pair and holding them spread apart.

1,385,556. PISTON AND RING. PERCY LE ROY KERSEY, Indianapolis, Ind. Filed Jan. 20, 1920. Serial No. 352,841. 1 Claim. (Cl. 74—109.)

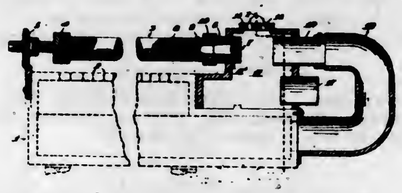
A piston having a circumscribing groove defining an end flange and a shoulder, there being an opening extended

through the flange; and a spiral ring surrounding the piston between the flange and the shoulder, the opening constituting means whereby the ring may be threaded into the groove, the flange being beveled in opposite directions,



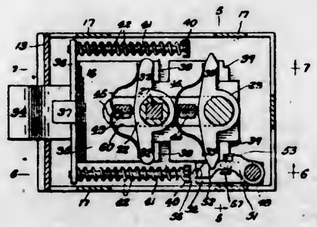
on opposite sides of the opening, to deflect one end of the ring into the groove when the ring is rotated in one direction, and to deflect the other end of the ring into the groove when the ring is rotated in an opposite direction.

1,385,557. GENERATOR FOR HYDROCARBON-BURNERS. JOHN O. KING, Los Angeles, Calif. Filed Sept. 8, 1919. Serial No. 322,404. 2 Claims. (Cl. 158—65.)



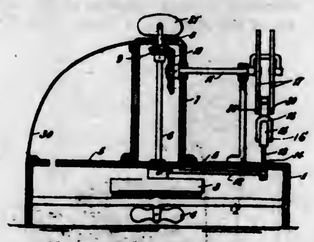
2. The combination with a gas burner of a mixing chamber having an outlet in communication with the interior of the burner and a gas inlet nozzle opposite and in alinement with the outlet, an air inlet at the bottom of said chamber, a removable cap having air passages above the gas nozzle and outlet and an air inlet in the vertical wall of the chamber below the outlet, said air inlets being so located as to form a circulation toward the outlet from all parts of the chamber.

1,385,558. LOCK DEVICE. JOHN A. KELLER, Brooklyn, N. Y. Filed July 3, 1920. Serial No. 393,855. 5 Claims. (Cl. 292—169.)



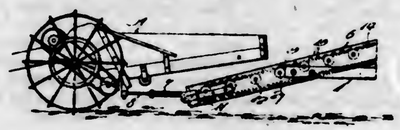
1. A lock device of the class described comprising a casing composed of two sheet metal plates, one of said plates being fashioned into box-shaped form and provided with parts adapted to pass through the other plate and riveted thereto to secure the separate plates together, a tensionally operated latch bolt device mounted between the separate plates of the casing and comprising a bolt proper adapted to normally project through one end wall thereof, a sheet metal guide plate in said casing, two pair of projecting members fashioned from said guide plate, a plurality of roll backs rotatably mounted in the casing and in operative connection with the projecting members of said guide plate, tensional means for holding said roll backs in their normal position, and means coöperating with said latch bolt device and one of said roll backs for locking the latch bolt device against inward movement by the other of said roll backs.

1,385,559. REVOLVING TOY. GEORGE C. LASARES, Springfield, Mass., assignor of one-half to Leon J. Harley, Jr., Springfield, Mass. Filed Jan. 13, 1920. Serial No. 351,167. 8 Claims. (Cl. 46—27.)



1. In a rotary toy device, the combination, of a base-member, a motor located therein, an arm connected to said motor and driven by the same, a figured toy, comprising a horse and a rider, means for causing the horse and rider to move together, and means for automatically lifting the rider from the horse and returning the same to the horse and simultaneously with the movement of the horse.

1,385,560. WAGON-LOADING DEVICE. EMIL C. LEHSOU, Missoula, Mont. Filed Apr. 23, 1920. Serial No. 376,133. 1 Claim. (Cl. 193—8.)



In a traction-operated conveyer, a pair of substantially horizontal beams, a pair of traction wheels supporting said beams and located at the rear ends of these beams, a pair of uprights on and extending up from the rear ends of said beams, a conveyer-frame including a pair of rearwardly and upwardly inclined frame-bars having their front end portions secured to those of said horizontal beams, their rear ends extending rearward beyond said wheels and horizontal beams, and their intermediate parts being secured to and supported by said uprights, a shaft journaled on the rear ends of said horizontal beams, transmission gearing operatively connecting said shaft to said traction wheels, a sprocket carried by said shaft, an endless conveyer-belt between and carried by said frame bars, a shaft journaled in the rear end portion of these frame-bars, a sprocket on this latter shaft, a driving chain on the sprockets, and idlers on said frame bars at points substantially in vertical alinement with the first said sprocket, these idlers serving as guides to hold the chain out of the way of a wagon while the wagon extends under the rear end of the conveyer and while the conveyer discharges its load from said rear end into the wagon.

1,385,561. METAL PROPELLER FOR AIRCRAFT. HENRY LEITNER, Kingsway, London, England. Filed Apr. 30, 1921. Serial No. 465,740. 4 Claims. (Cl. 170—159.)

1. A metal propeller of the kind hereinbefore referred to wherein either of the metal plates constituting the face and back of the blades, or both plates, is or are formed with a slit to enable the welding or other heating opera-

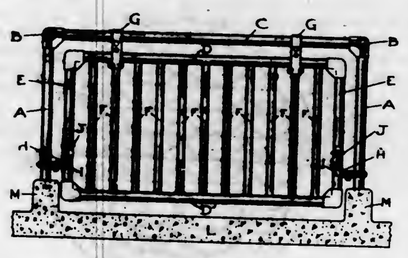


tion for connecting the edges of such plates together to be effected without harmful distortion of the said plates, substantially as described.

1,385,562. MANUFACTURE OF OPEN-HEARTH METAL. LEWIS B. LINDEMUTH, New York, N. Y. Filed July 23, 1920. Serial No. 398,467. 4 Claims. (Cl. 75—27.)

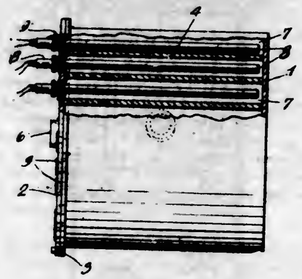
1. The method of manufacturing open hearth steel which comprises producing a synthetic pig metal from scrap in a melting furnace, removing sulfur therefrom and charging said pig metal into an open hearth furnace, treating said metal under open hearth conditions and finishing the metal according to requirements.

1,385,563. FASTENER FOR CLOSURES. WILLIAM LOUDEN, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed June 18, 1920. Serial No. 389,871. 5 Claims. (Cl. 292—213.)



1. In fasteners for closures a pair of members spaced in parallel relation a distance apart, the ends of each member being disposed at substantially right angles to each other, in combination with a closure having a side rail straddled by the members and upon which they are pivoted at a point centrally between their outstanding ends, and a fixed rail adjacent thereto and parallel with the side rail, whereby, as the fastener is turned on its pivot, one set of its outstanding ends will be adapted to straddle said adjacent fixed rail, while the other set will be held astraddle of the side rail of the closure to which it is pivoted, and the closure will be held in fixed position until the members of the fastener are turned on their pivot to release their ends from the fixed rail.

1,385,564. HEATER FOR FLUIDS. DANIEL M. LUBBERS, Cleveland, Ohio. Filed Oct. 7, 1920. Serial No. 415,262. 8 Claims. (Cl. 219—39.)



1. A heater for fluids comprising a drum having openings at its periphery and center and having a spiral channel connecting said openings, and heating units spaced apart in said channel.

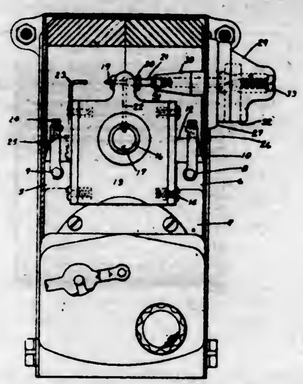
1,385,565. DEVICE FOR CHECKING THE ROCKING AND REBOUNDING OF VEHICLES. ELMER E. LYON, Harrisonville, Mo. Filed Dec. 6, 1919. Serial No. 343,086. 2 Claims. (Cl. 267—60.)

1. The combination with a vehicle body, axle and transverse supporting spring, of a bar secured rigidly to said body and projecting laterally therefrom, a coil tension spring carried by the onter end of said bar, a strap looped around said axle and connected tautly with the lower end of said coil spring, and a spreader device associated with said strap and coil spring for maintaining said strap out of engagement with said transverse spring.

1,385,566. CONNECTING MEANS FOR INDUCTION-COILS USED IN RADIO AND IGNITION SYSTEMS. SAMUEL C. MCKEOWN, East Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Oct. 19, 1917. Serial No. 197,443. 6 Claims. (Cl. 171—209.)

1. In combination, an ignition dynamo having relatively fixed core pole pieces with means for directing flux therethrough, an induction coil having primary and secondary windings, a core for said windings bridging said pole pieces, quick detachable means for clamping the core to the core pole pieces, a terminal block attached to the side of said coil, a contact carried by said block and having said secondary winding connected thereto, an ignition terminal connected to said contact, an arm attached to said block, a double ended contact carried by said arm and electrically

connected with the first mentioned contact, a spark gap contact associated with one of said double end contacts

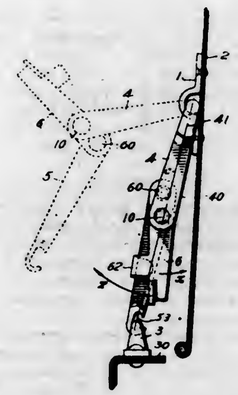


and a radio terminal in electrical engagement with the other end of said double contact.

1,385,567. IMITATION-COPPER-ENGRAVING PROCESS. ARTHUR CORQUATTO JOSEPH MARCHISIO, Paris, France. Filed Sept. 22, 1919. Serial No. 325,423. 1 Claim. (Cl. 41—46.)

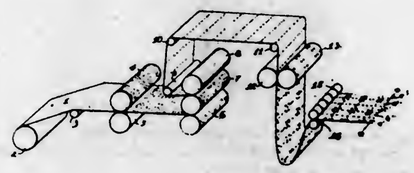
An imitation copper engraving process consisting in providing a transparent plate with a partially inactinic coating and a white supercoating; delineating the desired sketch or drawing on the supercoating, cutting through both of said coatings on the lines of the drawing with a dry point to expose the clean surface of the plate, tinting parts of the drawing by appropriately using a soft black pencil on the said supercoating, and subjecting prepared paper for the usual print process to the action of the light through the plate.

1,385,568. AUTOMATIC HOOD-CLAMP. GEORGE GUSTAV MARX, Jackson, Mich. Filed Feb. 13, 1920. Serial No. 358,505. 2 Claims. (Cl. 292—113.)



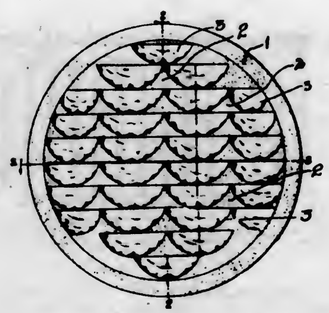
1. In combination with the frame bail and the hood bail of an automobile; of a toggle link and lever connection carried by the hood bail and comprising a link relatively permanently pivotally connected to the hood bail, a toggle lever pivoted to said link, a second link pivoted to the toggle lever and having a hook to removably engage the frame bail, said toggle lever having a stop adapted to engage said hook link when the parts are in the holding position, substantially as shown and described.

1,385,569. METHOD OF PRODUCING MULTICOPY FORMS OR BLANKS. GEORGE A. MAYER and HERBERT E. MURRAY, Cleveland, Ohio, assignors to The Manifold Printing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 21, 1920. Serial No. 353,101. 5 Claims. (Cl. 270—21.)



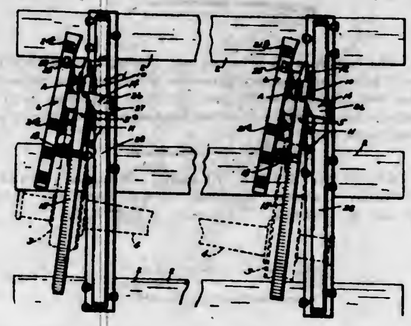
1. The method of producing multi-copy forms or blanks in superimposed continuous series which consists in dividing a web into longitudinal and transverse sections by perforating the same lengthwise and crosswise and folding the web on the longitudinal rows of perforations and in zig-zag manner on the transverse rows of perforations, and trimming off the lateral folded edges.

1,385,570. LENS. ALPHONS G. MILLER and CHARLES MCMULLEN, Flemington, N. J. Filed Jan. 12, 1920. Serial No. 350,790. 1 Claim. (Cl. 240—48.4.)



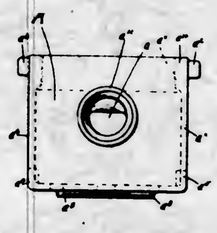
A lens of the type described having a series of substantially semi-circular depressions forming lens-like portions arranged facing downwardly, said depressions being arranged in rows both vertically and horizontally, with intermediate portions of diffusing glass between said depressions, likewise arranged in rows both vertically and horizontally, whereby each lens-like portion separately refracts the light downwardly and also diffuses it laterally.

1,385,571. CAR-REPLACER. JEREMIAH A. MOYNIHAN, Minneapolis, Minn. Filed Oct. 11, 1920. Serial No. 416,167. 12 Claims. (Cl. 104—271.)



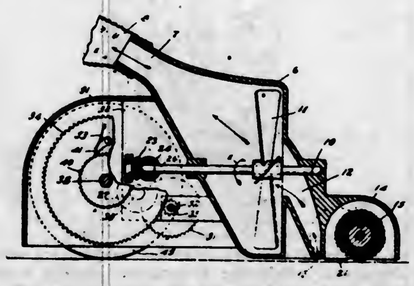
1. A car replacer comprising a member adapted to contact the rail, a longitudinal rib member thereon and a U-shaped wedge member, one of the arms of which engages said rib member, and the other arm of which contacts the opposite side of the rail.

1,385,572. SUPPLY AND DRAIN CAP FOR ANTI-FREEZE HYDRANTS. KELSO MURDOCK, Cincinnati, Ohio, assignor to The Murdock Manufacturing and Supply Co., Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 5, 1920. Serial No. 363,619. 5 Claims. (Cl. 137—13.)



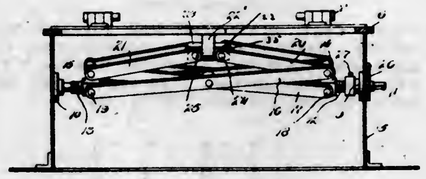
1. A combined supply and drain cap, having side walls and a base, for hydrants, and having a series of drain perforations through its side walls and base, lugs extending from the side walls above the side perforations, and a rib formed on the exterior of the base adjoining the perforations in the base.

1,385,573. VACUUM-CLEANER. RISAKU NISHIMOTO, Tacoma, Wash. Filed Mar. 14, 1921. Serial No. 451,978. 1 Claim. (Cl. 15—60.)



A vacuum cleaner of the class described comprising a fan housing having a discharge opening and having an inlet opening that communicates with a relatively long nozzle slot, a fan mounted for rotation in said fan housing, a shaft connected with said fan and projecting rearwardly from said housing, an axle, a wheel loosely mounted on each end of said axle, ratchet means interposed between each of said wheels and said axle and arranged so that one of said wheels will drive said axle in one direction and the other wheel will drive said axle in an opposite direction, two gearwheels loosely mounted on said axle, ratchet means for locking one of said gearwheels against rotation in one direction on said axle and the other gearwheel against rotation in the opposite direction on said axle, a short shaft arranged parallel with said axle, two pinions on said short shaft, one of said pinions meshing directly with one of said gearwheels, an idler gear interposed between the other pinion and the other gearwheel, and speed acceleration gears interposed between and operatively connecting said short shaft and said fan shaft.

1,385,574. RAISING AND LOWERING DEVICE FOR HATCH-VENTILATORS. GEORGE W. NORDSTROM, Brooklyn, N. Y. Filed Aug. 27, 1920. Serial No. 406,376. 1 Claim. (Cl. 268—8.)



In combination with a hatch coaming having a pivoted hatch cover, a shaft rotatably mounted in bearings on the inside of said coaming, said shaft having a squared end extending through the wall of said coaming, oppositely threaded portions on said shaft, correspondingly threaded nuts on said threaded portions, swivel blocks connected to the inside of said cover, pairs of cross bars pivotally connected to opposite sides of said nuts, and pairs of bars connected to opposite sides of said swivel blocks and to the upper ends of said first mentioned bars, and spacing bushings arranged between the bars of each pair, substantially as described.

1,385,575. HINGE-COVER BOX. CHARLES H. NOWACK, Chicago, Ill., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 29, 1917. Serial No. 158,155. 6 Claims. (Cl. 220—31.)



1. A box constructed of sheet material, a cover therefor, and a hinge connection between said cover and box, a part of said connection fixed to the box comprising a strip of material pivotally connected to the cover and having its ends extending through an aperture into said box, said strip being bent to provide shoulders of two thicknesses of said strip engaging the inner faces of said box at said aperture.

1,385,576. TIME AND VALUE CARD. GEORGE WILLIAM ODELL, Montreal, Quebec, Canada. Filed Dec. 19, 1918, Serial No. 267,553. Renewed Nov. 13, 1920. Serial No. 423,984. 3 Claims. (Cl. 234—41.)

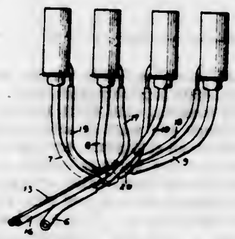
1. The combination with outer parallel guides and inner guiding members beyond said guides and off center in re-

lation thereto, of a sheet of suitable material having one end reduced and adapted to enter between said inner guiding members and the other end enlarged to fit between said outer guides and direct the reduced end between said inner



guideway members, the reduced end of the card being formed by clippings made from opposite sides and of different lengths forming shoulders for engaging in setting a recording machine and for forming a stop in such setting operations.

1,385,577. CLAW STRUCTURE FOR MILKING-MACHINES. HENRY CLYDE OHEN, Columbus, Ohio, assignor to Nu-Way Milker Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Aug. 27, 1919. Serial No. 320,098. 14 Claims. (Cl. 31—101.)



1. In milking machine construction, a milk claw and an air claw designed to contact with each other without connection and so constructed that they will be held together when placed in position for operation by the complemental parts of the milking machine.

3. In milking machine construction, a milk claw and an air claw independent of each other, said claws being so constructed that the rubber tubes applied to one will hold them together while the removal of one rubber tube will permit separation.

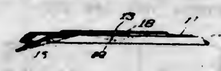
7. In milking machine construction, a milk claw comprising five conduits which are joined together in one plane and radiate substantially from a common center.

12. In milking machine construction, an air claw and a milk claw independent of each other but having their conduits so disposed that the tubes of the milking machine when placed thereon effect an interlocking action that holds said claws together.

13. In milking machine construction, a milk claw, an air claw independent thereof but comprising conduits which are curved into such relation to the conduits of the milk claw that the placing of the tubes of the milking machine in operative position will lock said air and milk claws together.

1,385,578. SAFETY-SHIELD FOR CAN-CAPS. VICTOR ODQUIST, Yonkers, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 23, 1919. Serial No. 292,109. 4 Claims. (Cl. 220—44.)

1. The combination of a can cap having formed therein a vent hole, the part of the cap displaced in making said hole forming a tubular pivot, and a safety shield mounted on said pivot under the vent hole.



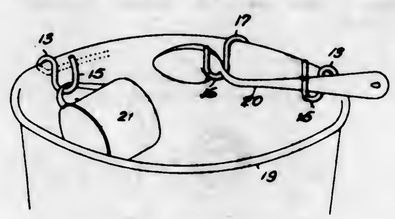
4. The combination of a can cap having formed therein a vent hole, and a safety shield in the form of a radially fluted disk arranged under said vent hole, said disk having a narrow tongue which is rebent and attached to the cover at said vent hole.

1,385,579. RAZOR-BLADE. WILLIAM EDMUND O'REILLY, London, England. Filed June 13, 1919. Serial No. 303,857. 7 Claims. (Cl. 30—12.)



1. A razor blade comprising a cutting edge, sides, and a back provided with slots spaced apart, each of said slots having a straight portion and rounded portion connecting therewith, the curvature of the rounded portion of each slot being toward the adjacent side of the blade.

1,385,580. CUP AND SPOON HOLDER FOR COOKING UTENSILS. MINNIE A. OWEN, Charlottetown, Prince Edward Island, Canada. Filed Dec. 20, 1920. Serial No. 432,144. 7 Claims. (Cl. 65—65.)



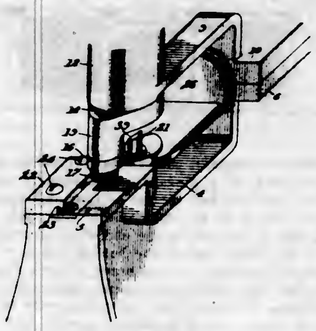
1. An attachment for cooking vessels comprising a member adapted to embrace the edge of the vessel and to be supported externally of the vessel by said embracing action, and a plurality of relatively movable hooks carried by said member and adapted to depend within a vessel.

1,385,581. LIFE-PRESERVER. GEORGE H. PALLADY, Redondo Beach, Calif. Filed Dec. 2, 1920. Serial No. 427,883. 6 Claims. (Cl. 9—17.)



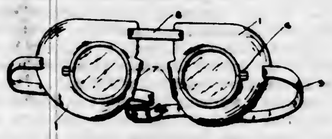
1. A device of the class described comprising a sealed air container constituting a sustaining element, a tube inclosing said container, said tube being inflated with air independently of said container, and a water-proof covering surrounding said tube.

1,385,582. WIRE-LOOP-TWISTING MACHINE. LUCIAN E. PARKER, Wadsworth, Ohio, assignor to Edwin J. Young, Wadsworth, Ohio. Filed Apr. 21, 1919. Serial No. 291,566. 6 Claims. (Cl. 140—73.)



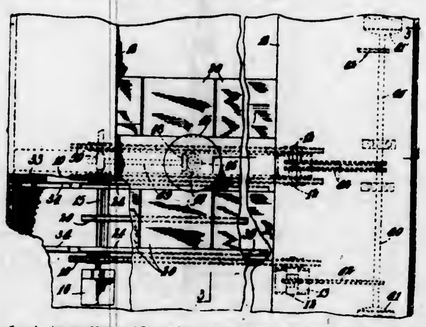
1. A machine for forming loops in wires, having a rotary reciprocating looper, a wire guide, and a rotary reciprocating twister, said looper and twister being arranged in planes substantially at right angles to one another, said twister being provided with a pin about which the looper bends the wire and thereafter clamps such bent portion between itself and the guide while the twister is turning to twist the bent portion upon the body of the wire.

1,385,583. EYE-PROTECTOR. HAROLD K. PARSONS, Southbridge, Mass. Filed June 25, 1918. Serial No. 241,774. 6 Claims. (Cl. 2—149.)



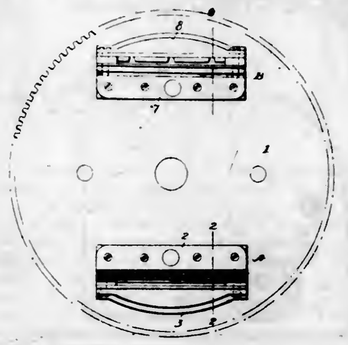
1. In a device of the character described, the combination with eye cup members having outwardly deflected flanges, of lenses, and securing means for the lenses including a spring ring, and means controlled and retained in position by the ring for securing the lenses to the flanges.

1,385,584. MOVING SIDEWALK. ANDREW PELESKEY, Martins Ferry, Ohio. Filed Apr. 2, 1921. Serial No. 457,923. 5 Claims. (Cl. 104—25.)



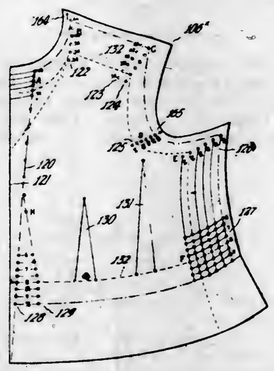
1. A traveling sidewalk comprising a series of sprocket chain wheels over which said chains are looped in horizontally disposed upper and lower reaches, means pivotally attaching the plates at one end to the chains, upper and lower tracks supporting the other ends of the plates as they move forwardly and backwardly respectively, said tracks having curved sections at their ends adapted to maintain the plates in substantial parallelism as they reverse their direction of movement.

1,385,585. TYPOGRAPHICAL MACHINE. HANS PETERSEN, Davenport, Iowa, assignor to The Linograph Company, Davenport, Iowa, a Corporation. Filed Feb. 27, 1920. Serial No. 361,880. 14 Claims. (Cl. 199—49.)



4. An assembling mechanism for assembling matrices at two levels, in combination with a carrier for casting at three levels.

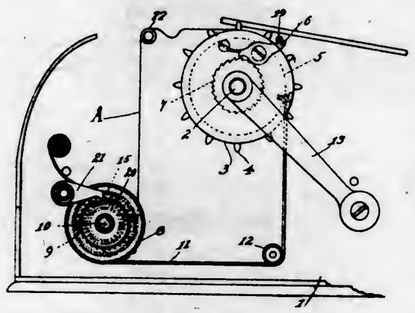
1,385,586. DRESS-PATTERN-DRAFTING TEMPLET. MARION RICHARDS, Sydney, New South Wales, Australia. Filed Feb. 11, 1920. Serial No. 357,946. 1 Claim. (Cl. 33—13.)



A templet for laying off waist patterns, comprising a front chart and a back chart, each having a substantially horizontal row of perforations below the arm scye, an angularly disposed row of perforation intermediate the arm scye, a plurality of angularly disposed rows of perforations above the arm scye, a row of perforations at the neck, that of the front chart being curved and that of the back chart substantially vertical, and a row of perforations adjacent to one edge of each chart, said row being angularly disposed with relation to the edge of the chart, all of said rows of perforations being graduated to indicate bust measurements, each of

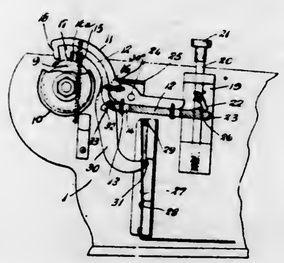
said charts also having a plurality of rows of perforations disposed in approximately parallel relation with the lower edge of the chart and a row of perforations in alinement with the said rows and with the angularly disposed edge row, the perforations of said rows being graduated to indicate arm measurements and said front chart having an additional row of perforations diverging from said angularly disposed edge row below the bust and forming with said edge row two angularly disposed rows of perforations near the waist line.

1,385,587. AUTOGRAPHIC REGISTER. JOHN Q. SHERMAN, Dayton, Ohio. Filed Nov. 15, 1919. Serial No. 338,154. 6 Claims. (Cl. 282—16.)



1. In an autographic register, the combination with a rotary feed device for feeding a plurality of strips of paper together with a record strip, all of said strips to receive impression copies of the topmost one thereof, of a roll for storing the record strip, a rotating spring impelled body, and a trip device controlled by the feed device for timing the motion thereof free of the feed device, said roll for storing the record being actuated by said rotating spring impelled body.

1,385,588. AUTOGRAPHIC REGISTER. JOHN Q. SHERMAN and CLARENCE R. BUSCHMEYER, Dayton, Ohio, assignors to The Standard Register Company, Dayton, Ohio, a Corporation of Ohio. Filed May 25, 1917. Serial No. 170,805. 6 Claims. (Cl. 192—116.)



1. In a motor feed device for intermittent feeding devices, in combination with electric motor means for operating the feeding device, a switch therefor, and a controlling device comprising a rotary notched element, a pivoted arm having a nose to ride on said rotary element, and to latch into said notch, and a pawl to rock said arm, said arm having a switch control member thereon.

1,385,589. FOLDING SCREEN-TENT FOR OUTDOOR BEDS. JOSEPH H. SHENEY, Decatur, Ill. Filed Apr. 19, 1921. Serial No. 462,526. 1 Claim. (Cl. 5—14.)



A folding screen tent, comprising collapsible top braces, each consisting of a plurality of connected sections, a stiffening web attached to one section and supporting a connected section at the open side of the joint, a bottom brace joined at one end to the end of a top brace, a lock-notch at the other end of the bottom brace, a coöperating catch on one end of a top brace, a mesh fabric covering over the top braces, end pieces, coöperating snap-button fasteners to connect the end pieces with the end top braces, an insect proof entrance closure, and means to hold the erected screen taut.

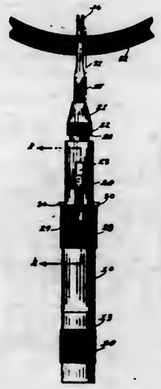
1,385,590. LOOSE-LEAF FILE OR BINDER. WILLIAM D. SHOEMAKER, Drummond, Md. Filed Nov. 17, 1919. Serial No. 338,684. 5 Claims. (Cl. 129—15.)



1. In a file or binder, the combination of cover members, fastening means for connecting the same, and a file unit held by said fastening means between said cover members and comprising a plurality of separator sheets and means for holding said sheets in a pile in a collapsed condition of the unit or in a fixed relationship with each other in a spread out condition of the unit.

5. A file unit comprising a plurality of separator sheets, and connecting members therefor in the form of fluted extensions upon said sheets, one section of the fluted extension being attached to the adjacent separator sheet.

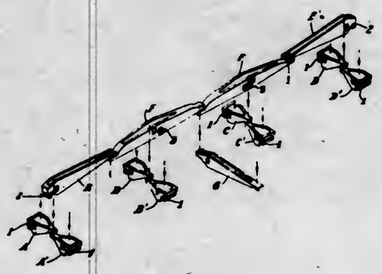
1,385,591. REPAIRING DEVICE FOR BICYCLE-TIRES. ROMAN STAFIEJ, Detroit, Mich. Filed Jan. 21, 1921. Serial No. 438,873. 3 Claims. (Cl. 152—27.)



3. In a tool of the character described, the combination, of a hollow cylindrical body having a longitudinal

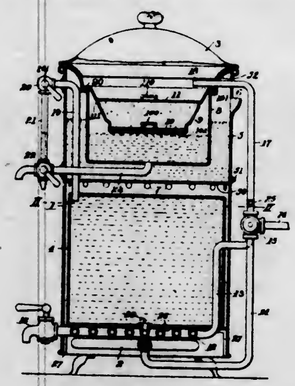
slot, with a screw-threaded and slotted nipple upon the upper end of said body adapted to receive the offset lower end of a forked needle, an interiorly screw-threaded cap having a conical upper part adapted to be screwed upon said nipple, a means for catapulting a rubber band into a tire puncture hole upon the introduction of the forked needle into the same, and a means for storing auxiliary needles in the lower end of said body.

1,385,592. SCALE. MORTON H. STARR, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a Corporation of Vermont. Filed Jan. 20, 1920. Serial No. 352,817. 31 Claims. (Cl. 265—71.)



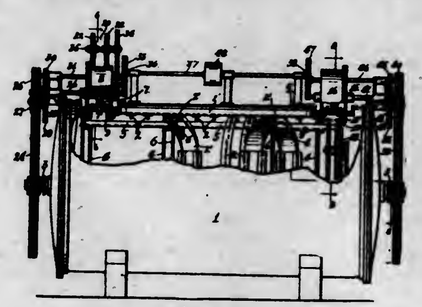
1. In a scale, in combination, a lever having spaced bearings and an opening centered therebetween, and a load transmitting member disposed through said opening and having an operative connection with said spaced bearings whereby said member is pivotally movable in a plurality of planes.

1,385,593. COFFEE-URN. HENRY J. STROHBACH, New York, N. Y. Filed Nov. 4, 1920. Serial No. 421,624. 6 Claims. (Cl. 53—3.)



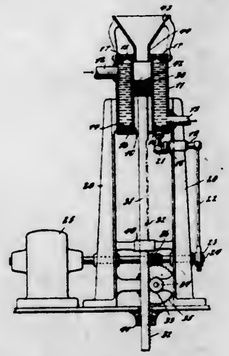
1. In a coffee urn, the combination with a casing, of a water heating tank in the lower portion thereof, a percolator in the upper portion of said casing, a pipe for supplying water to said tank, a valve in said pipe, and a pipe leading from said valve to the percolator for conducting hot water from the tank to the percolator through said latter pipe and part of the water supply pipe, said valve being adapted to place the percolator in communication with the tank or said tank in communication with the water supply.

1,385,594. PRESSURE-COOKER. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barn-Grover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Sept. 29, 1920. Serial No. 413,589. 13 Claims. (Cl. 126—272.)



1. In a pressure cooker, and in combination with its shell, and means for advancing canned goods therethrough, a can-passing valve-structure comprising a casing communication with said shell, and a rotatable valve-member within said casing, provided with a peripheral series of can-pockets, adapted to be brought successively into register with the communication between the casing and shell; and packing rings mounted in the casing with their faces yieldingly fitted to the sides of said valve member, and their rims yieldingly fitted to the inner surface of the casing periphery.

1,385,595. APPARATUS AND METHOD FOR CASTING. CORNELIUS W. VAN RANST, New Rochelle, N. Y. Filed Aug. 26, 1919. Serial No. 320,010. 4 Claims. (Cl. 207—11.)

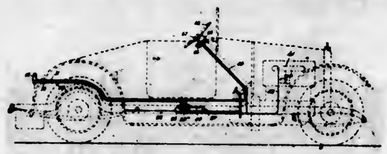


1. The method of casting bars which consists in pouring molten metal into one end of a short mold having an opening of substantially uniform cross section, cooling the metal in the mold, withdrawing the cooled metal from the opposite end of the mold while continuing to pour molten metal into the opposite end of the mold and reciprocating the mold relatively rapidly longitudinally of its length while the pouring and removal is continued.

1,385,596. AUTOMOBILE-SIGNAL. JOSIAH HOWARD VAN SCIVER, Philadelphia, Pa. assignor to Automobile Appliances Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 8, 1921. Serial No. 450,691. 7 Claims. (Cl. 116—39.)

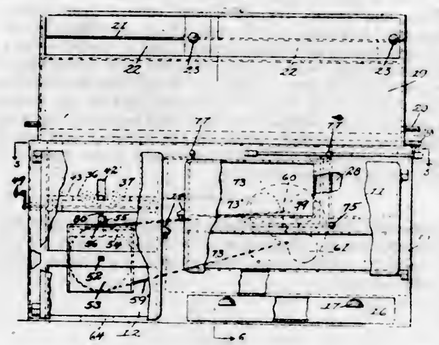
1. A signaling device comprising a support, a direction-indicating member pivoted thereon, a cylinder, a piston

movable therein and connected with said member, a plurality of suction connections communicating with said cylinder whereby suction is produced in said cylinder to draw said piston to two different positions therein and



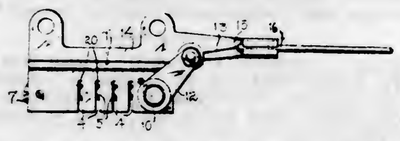
thereby adjust said member to two operative positions distinct from one another and indicating right and left changes of travel respectively and valve mechanism for selectively controlling said connections.

1,385,597. GAS AND COAL STOVE. WILHELM WADLER, Weehawken, N. J., assignor of one-half to Joseph Hoch, West Hoboken, N. J. Filed May 11, 1920. Serial No. 380,569. 2 Claims. (Cl. 126—36.)



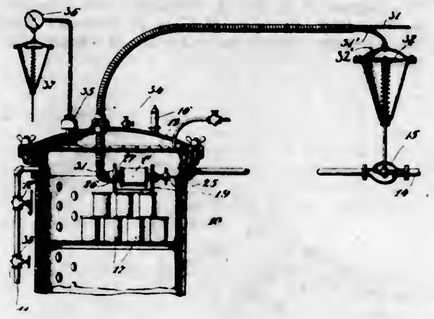
1. A stove of the character described comprising in combination, a chambered body, a plurality of flues in said body, means for connecting said flues with a chimney, means for controlling said flues, a fire box constituted by one of the stove chambers, a revolving grate in said body, a frame for said grate, a means for raising and lowering said frame and grate, an ash receptacle below said grate, a plurality of slats transversely arranged within said receptacle, a sieve formed with the side and bottom walls of said receptacle, a plurality of shaker bars disposed in said receptacle, a common operating rod for said slats, constituting a gas burner, means for supplying gas to said burner, a shaft for said receptacle journaled in the rear and front wall of the stove, a sprocket wheel on said shaft, and a fan operated from said shaft and sprocket wheel during the sifting operation for removing the dust.

1,385,598. SAFETY-RELEASE-WIRE HOLDER FOR AERIAL BOMBS. HARRY D. WEED, U. S. Army. Filed June 7, 1919. Serial No. 302,587. 2 Claims. (Cl. 244—1.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a safety release wire holder for bombs, a body portion provided with a passage-way and wire receiving slots communicating with said passage-way, wire holding elements in said passage-way, and means for holding said elements in yielding contact.

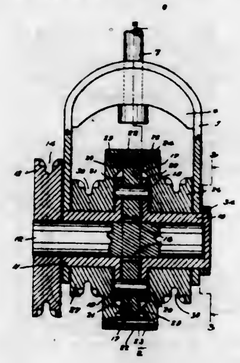
1,385,599. METHOD AND DEVICE FOR CONTROLLING PRESERVING APPARATUS. WILLIAM P. WHITE, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 9, 1919. Serial No. 288,725. 47 Claims. (Cl. 99—2.)



1. In the art of preserving, the method residing in subjecting sealed packages to influences which tend to modify their structural form, and regulating the application of said influences by structural modifications of a package subjected thereto.

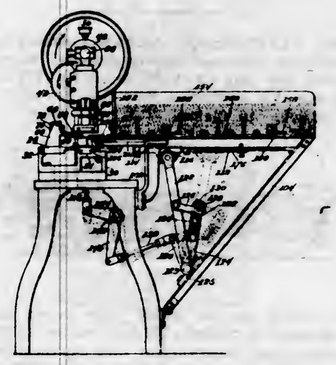
15. In a preserving apparatus, a device for regulating the application of fluid pressure to containers, comprising means for supporting a specimen container, means for impressing fluid pressure on the exterior of the container, and means operable by a portion of the container for controlling the operation of said last mentioned means.

1,385,600. CHAIN-HOIST. HAZEN F. WILLETT, Seattle, Wash., assignor of one-half to John R. Forman, Seattle, Wash. Filed Mar. 9, 1920. Serial No. 364,441. 4 Claims. (Cl. 254—171.)



1. A chain hoist comprising a shaft, means for turning said shaft, a gear wheel rigid with said shaft, two sleeves disposed on said shaft on opposite sides of said gear wheel, means supporting said sleeves against rotation, a plurality of pinions journaled on said sleeves and meshing with said gear wheel on said shaft, a ring gear meshing with all of said pinions, and a chain receiving pulley rigidly secured to each side of said ring gear, one of said chain receiving pulleys being larger than the other.

1,385,601. STOCK-CUTTING MACHINE. ERASTUS E. WINKLEY, Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 7, 1916. Serial No. 89,542. 50 Claims. (Cl. 164—48.)



1. A machine for cutting shoe stock having, in combination, a support for positioning a sheet of stock, a cutter, a cutting block coöperating with the cutter, means to relatively move the cutter and block to make a cut, a stop movable with the cutter for determining the longitudinal advancement of the stock preparatory to making a cut, means to relatively move the cutter and stock transversely of the support before making each cut to position the cutter for cutting a blank, and means for advancing the stock.

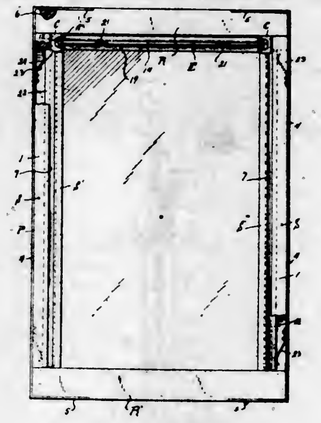
1,385,602. REINFORCING-BAND FOR METAL CONTAINERS. ANSON J. BENTLEY, Niles, Ohio. Filed Apr. 26, 1920. Serial No. 376,667. 2 Claims. (Cl. 220—73.)



1. A reinforcing band for a receptacle recessed on its exposed face to receive the outer ends of the rivets which hold together the band and receptacle and recessed on its inner face to receive bent in portions of the receptacle wall surrounding the rivets to thus permit the inner ends of the rivets to lie flush with the surface of the receptacle wall.

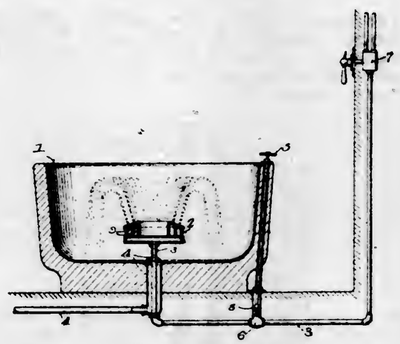
1,385,603. WINDOW-CLEANING DEVICE. GEORGE T. BLOOMINGDALE, Parkersburg, W. Va. Filed Apr. 2, 1921. Serial No. 458,134. 4 Claims. (Cl. 15—59.)

1. A sash structure including stiles provided with slots extending lengthwise thereof, a carriage slidably mounted in each of the slots and including wings overlying the opposite faces of the stiles, a wiping element supported by the wings at each side of the structure, and means for normally closing each of the slots, said



means coacting with the carriages for normally maintaining the same at the limit of their movement in one direction.

1,385,604. LAVATORY. HARRY L. BRADLEY, Milwaukee, Wis., assignor of one-half to Lynde Bradley, Milwaukee, Wis. Filed May 31, 1919. Serial No. 300,978. 7 Claims. (Cl. 4—1.)

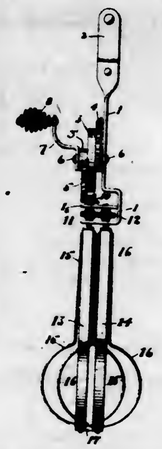


1. In a lavatory the combination of a receptacle provided with a waste outlet leading from the lower part thereof, and a fountain located within said receptacle and provided with a water supply connection and adapted to project upwardly and obliquely a plurality of closely associated non-interfering fine streams of water and to cause them to fall inertly, clear of the fountain, into the receptacle, without the falling streams mixing with the upwardly projected streams.

1,385,605. OPERATING DEVICE FOR BEATERS. JAMES O. H. CAZENOVE, New York, N. Y., assignor of one-third to Ray B. Whitman, Bridgeport, Conn. Filed Feb. 18, 1920. Serial No. 359,672. 3 Claims. (Cl. 74—50.)

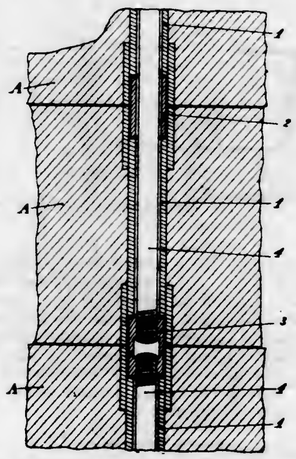
1. In a device of the class described, the combination of a supporting frame, a hub pivoted in the frame and

provided with a handle, a circular disk centrally mounted on the hub, a pair of sector plates provided with bevel teeth on their peripheries and so positioned on opposite sides of the circular disk that the bevel teeth of each sector plate face toward the disk but on opposite sides



of the hub, a bevel-tooth pinion journaled in lateral extensions of the frame and disposed to mesh alternately with the bevel teeth of each sector plate, the disk hub, and plates being all integrally attached, and a pair of spur gears operatively connected to the bevel pinion and mounted in the lateral extensions.

1,385,606. DEVICE FOR JOINING CONCRETE BLOCKS DISPOSED IN A PILLAR OR IN SERIES. JÖRGEN ANTON FREDERIK CHRISTENSEN, Odense, Denmark. Filed Oct. 16, 1916. Serial No. 125,996. 4 Claims. (Cl. 72—101.)



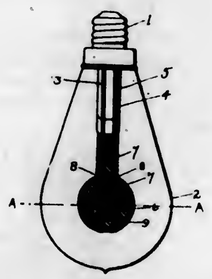
1. A device for joining concrete blocks comprising a pipe embedded in each of said blocks, said pipes forming a continuous passage when the blocks are placed in position with relation to one another, a plurality of bolt members arranged in alinement with each other in said passage, a coupling member connecting the adjacent ends of said bolt members, said coupling member projecting into the passage of adjacent pipes and being of a size in cross-section approximately equal to the cross sectional area of the passage for preventing transverse movement of one block relatively to an adjacent block, and means for clamping the two extreme ends of the bolt members to the end blocks.

1,385,607. CLASP-BRAKE. JAMES M. COLEMAN and KARL F. NYSTROM, Montreal, Quebec, Canada. Original application filed May 31, 1917, Serial No. 172,130. Divided and this application filed Dec. 26, 1917. Serial No. 208,909. 19 Claims. (Cl. 188—205.)



1. In a brake gear for use in trucks having transverse frame members at different heights, balance springs bent intermediate their ends whereby they may be attached in normal position to the upper level frame members or in inverted position to the lower level frame members, while maintaining the free extremity in a single horizontal plane.

1,385,608. INCANDESCENT LAMP. WILLIAM A. DARRAH, Swissvale, Pa. Filed Nov. 23, 1914. Serial No. 873,644. 15 Claims. (Cl. 176—16.)

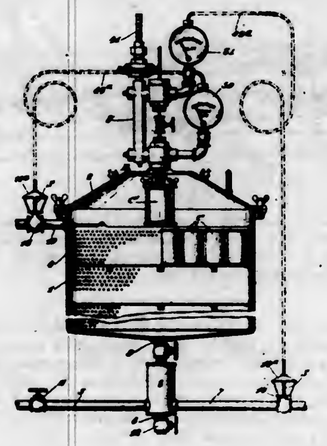


9. An electric lamp comprising a transparent container surrounding a radiating member consisting of a conductor supported in boron nitrid and an economizing chamber arranged above said radiating member.

1,385,609. AUTOMATIC CONTROL FOR PROCESSING APPARATUS. CHAUNCEY H. DURKEE, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed May 26, 1920. Serial No. 384,397. 27 Claims. (Cl. 99—2.)

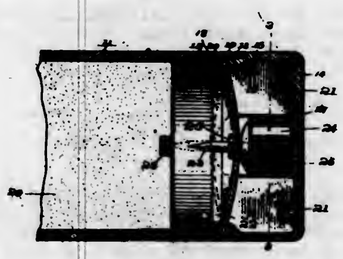
1. In an apparatus for treating packages, the combination of a movable detecting member, supporting means for supporting a package with a wall portion in operative association with said member, pressure means for subjecting the package to external fluid pressure, a controlling device for controlling the pressure means by operation of the detecting member, and variable interconnections between the detecting member and the controlling device whereby the effectiveness of the former upon the latter may be varied selectively.

27. A processing apparatus comprising in combination, a retort for inclosing packages for treatment, a valve for controlling supply of fluid to the retort, a motor device operable by fluid pressure for operating the valve, and a detecting member operable by expansive movement



of a package in the retort to vent pressure fluid from said motor device and to cut off the pressure fluid to said device.

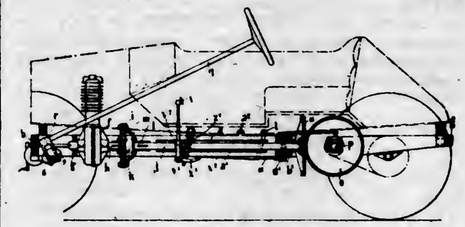
1,385,610. PERCUSSION-FUSE. JOHN FLAM, U. S. Army, assignor to the Secretary of War of the United States of America. Filed Jan. 2, 1919. Serial No. 269,381. 1 Claim. (Cl. 102—39.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



In combination with a casing containing an explosive charge, a primer for igniting said charge, a cap secured to the casing and forming therewith an annular groove, guide ribs formed on the interior of said cap, a spring plate having its periphery situated in the annular groove and slidable therein, a firing pin secured to the plate and normally held thereby in spaced relation to the primer and a weight secured to the firing pin for placing initial tension on the plate, said weight guided in its movement by the guiding ribs.

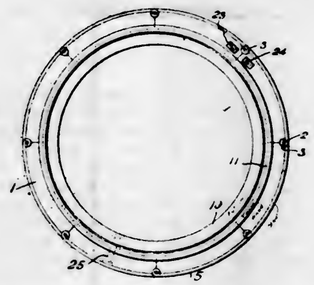
1,385,611. MOTOR-CAR. JEAN GANGLOFF, Levallois-Perret, France. Filed Dec. 22, 1919. Serial No. 346,516. 5 Claims. (Cl. 180—64.)

1. In a light motor vehicle, a chassis including longitudinals of sufficient elasticity to permit of elimination of springs, and front and rear cross bars of hard and flexible wood assembled together by means of metal brackets, the arm ends of which are connected by plate



springs, the front cross bar forming an axle for the vehicle steering wheels.

1,385,612. EMERGENCY AUTOMOBILE-TIRE. CHARLES G. GERLACH, Spokane, Wash. Filed Jan. 22, 1920. Serial No. 353,376. 4 Claims. (Cl. 152—23.)



3. An emergency tire for motor vehicles comprising a plurality of abutting curved tire sections adapted to be pivotally connected to form a continuous jointed tire, each section having upon its outer surface recesses in its ends at its outer peripheral edge, each tire section having upon its outer surface a protective band of metal formed with eyes at its ends seating in the recesses in the ends of the tire section substantially flush with the ends of said tire section, the eyes of abutting sections overlapping, and means inserted in each of said overlapping pairs of eyes for pivotally connecting adjacent tire sections.

1,385,613. PISTON-RING. MIDDLETON S. GILL, San Francisco, Calif. Filed Apr. 27, 1920. Serial No. 377,110. 11 Claims. (Cl. 74—109.)



1. The combination with a piston grooved to receive piston packing means, of piston packing means carried by such piston and fitting the grooved portion thereof, such packing means comprising ring means grooved in the outer periphery thereof and also grooved in the

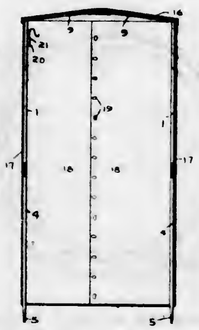
oppositely facing edges thereof, such ring means also having channels extending from such grooves in the oppositely facing edges outwardly to the outer periphery of such ring means.

1,385,614. LINGERIE-CLASP. WALTER E. HALLAM, Pawtucket, R. I. Filed Jan. 24, 1920. Serial No. 353,682. 6 Claims. (Cl. 24—259.)



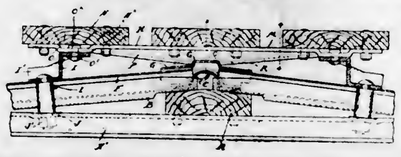
1. A lingerie clasp comprising an elongated strip of flexible material reversely curved at its middle portion to form two approximately parallel hooked arms and having formed on the opposite lateral edges of one arm a pair of opposed curvilinear wings provided with central apertures, substantially as and for the purpose described.

1,385,615. PORTABLE BATHHOUSE. JAMES CARLTON HAMMOND, Jacksonville, Fla. Filed July 22, 1920. Serial No. 398,232. 2 Claims. (Cl. 135—4.)



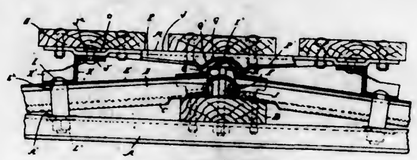
2. A portable structure including a central block, arms hingedly connected to the respective sides of the block and foldable together, fastening means movably connected to one of the arms and extending across the top face of the block and detachably connected to the opposed arm, said block being held by gravity in abutment with the inner ends of the arms when the arms are extended, supports for the arms, means detachably engaging the supports for holding them extended, said supports having pointed ground engaging ends, a one piece fabric housing having a top portion bearing downwardly on the block and arms, wall portions extending along and between the supports, and flaps between two of the supports, and means for engaging the flaps to hold them closed.

1,385,616. CAR-ROOF. DAVID W. HAWKSWORTH, Detroit, Mich., assignor to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 30, 1918. Serial No. 252,000. 12 Claims. (Cl. 105—457.)



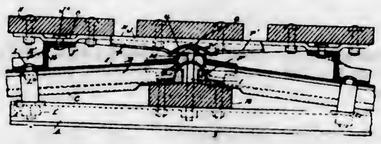
1. In a car roof having a weather-proof cap, a running-board saddle secured to said car roof only beyond said cap and provided with means engaging said cap for retaining the same in place.

1,385,617. CAR-ROOF. DAVID W. HAWKSWORTH, Detroit, Mich., assignor to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Michigan. Filed Aug. 30, 1918. Serial No. 252,001. 18 Claims. (Cl. 105—457.)



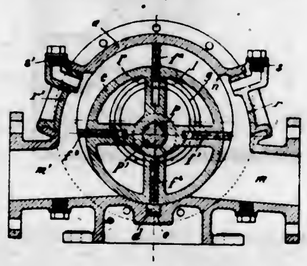
1. In a car roof, the combination with a carline, and a carline cap, of a running-board saddle above said carline cap, and a connection for securing said saddle to said carline, extending through said cap.

1,385,618. RUNNING-BOARD SADDLE. DAVID W. HAWKSWORTH, Detroit, Mich., assignor to Hutchins Car Roofing Company, Detroit, Mich., a Corporation of Michigan. Original application filed Aug. 30, 1918, Serial No. 252,001. Divided and this application filed Mar. 11, 1920. Serial No. 364,942. 5 Claims. (Cl. 105—457.)



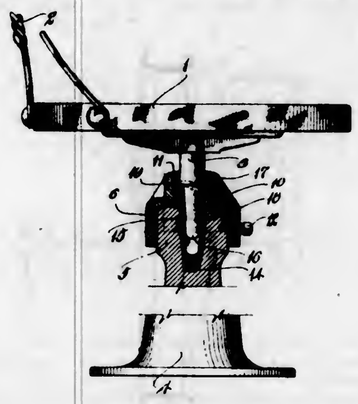
1. A running board saddle having a concavo-convex portion embracing the head of a junction cap bolt to weather proof the same.

1,385,619. ROTARY PUMP WITH SLIDING PLATES. EDMOND HENRY, Paris, France. Filed May 10, 1920. Serial No. 380,381. 3 Claims. (Cl. 103—44.)



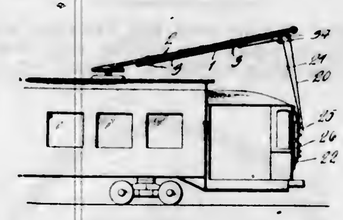
1. A rotary pump with sliding plates comprising, in combination, a cylindrical pump body having intake and delivery passages, a rotary piston with sliding plates and mounted eccentrically with reference to the cylinder, two ring-shaped members freely rotatable by their outer edges within bored out recesses in the end plates of the pump body and concentric to the cylinder, and having their inner edges engaging grooves provided in the sides of the sliding plates, which grooves are wider than the said edges and elastic means provided upon each sliding plate between the said plate and the said ring-shaped member in order to allow the plate to enter within its groove in the piston while passing over an accidental obstacle on the walls of the cylinder.

1,385,620. SWIVELED CHAIR. GEORGE W. HULL, Seattle, Wash. Filed Oct. 25, 1920. Serial No. 419,434. 3 Claims. (Cl. 155—95.)



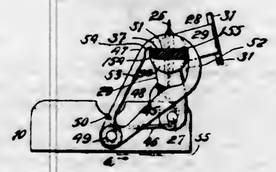
1. The combination with the standard having a socket therein and the revoluble chair body having a post and tapered bearing point, of a coupling head fixed on the standard, a reduced sleeve on the coupling head having a pair of interior cam faces, a spring between the standard and the post, and a pin on the post to engage said cam faces as described.

1,385,621. TROLLEY-POLE RETRIEVER. BENJAMIN F. JOHNSON, Baltimore, Md. Filed Apr. 23, 1921. Serial No. 463,740. 8 Claims. (Cl. 191—92.)



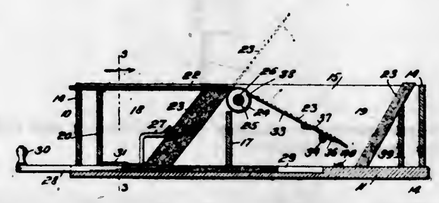
1. A trolley pole retriever comprising a detachable elongated barrel, means for attaching said barrel to said trolley pole, a retrieving spring within said barrel, and clutch means for actuating said retrieving spring.

1,385,622. RAZOR-BLADE-SHARPENING MACHINE. SAMUEL KANNER, New York, N. Y. Filed Aug. 18, 1919. Serial No. 318,359. 2 Claims. (Cl. 51—80.)



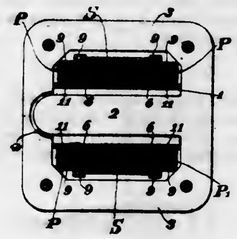
1. A razor-blade sharpener of the character described comprising an open-top box, rotary sharpening rolls therein, a frame movable toward and from said rolls, a rotatably mounted blade holder carried by said frame and blade reversing means for automatically reversing said blade holder including an actuating traveler on the end of said blade holder, a bar pivoted on said box and containing an opening therein receiving said traveler and having surfaces to coöperate therewith for reversing the blade holder and a spring pressing the said bar against said traveler, said bar being an integral closed one-piece frame presenting unbroken outer edges and confining on all sides said traveler in the opening formed therein.

1,385,623. KINDERGARTEN APPARATUS. JAMES L. KELLOGG, New York, N. Y. Filed Oct. 30, 1920. Serial No. 420,622. 8 Claims. (Cl. 35—9.)



1. Apparatus of the character described comprising a box affording front and rear chambers or compartments, a plurality of independent object cards for successive display to be stacked in said front compartment, manually operative means engaging the back of the stack for feeding the successive cards upwardly to exposure position, means pressing the stack against said feeding means, and means at the back of said feeding means to receive the successive cards exposed at the front thereof and passing over the same and serving as means to stack the cards in said rear compartment.

1,385,624. INDUCTION-COIL-HEAT-DISSIPATING STRUCTURE. ARTHUR ATWATER KENT, Ardmore, Pa. Filed Feb. 17, 1920. Serial No. 359,396. 10 Claims. (Cl. 175—360.)

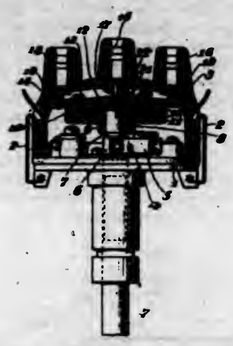


1. The combination with a current conducting winding, of means for conducting heat therefrom comprising a member lying adjacent said winding in heat absorbing relation thereto and having fins lying beyond said winding, said member having a core flange surrounded by said winding.

1,385,625. DISTRIBUTER STRUCTURE. ARTHUR ATWATER KENT, Ardmore, Pa. Filed Mar. 30, 1920. Serial No. 370,003. 7 Claims. (Cl. 200—20.)

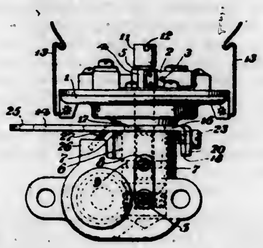
1. The combination with relatively rotating distributer member and distributer terminals, one of which is disposed substantially in the axis of rotation, of a contact

secured to said member and adapted to spring away from said member toward said one of said terminals, and means



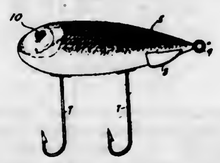
on said member for limiting the separation of said contact from said member.

1,385,626. IGNITION TIMER STRUCTURE. ARTHUR ATWATER KENT, Ardmore, Pa. Filed Apr. 16, 1920. Serial No. 374,264. 19 Claims. (Cl. 200—19.)



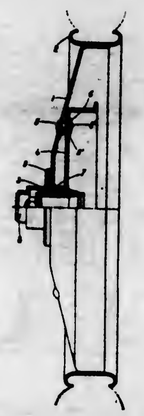
1. An ignition timer arm adapted to be clamped to an angularly adjustable member of ignition timing apparatus comprising a lever arm of sheet metal, and lug structure thereon for clamping said lever arm edgewise to said angularly adjustable member.

1,385,627. PLUG-BAIT. LEAVITT J. LANE, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed June 14, 1921. Serial No. 477,362. 2 Claims. (Cl. 41—29.)



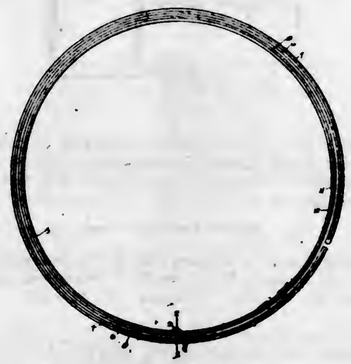
1. A method of finishing plug-bait for casting, consisting in treating the surface of a plug with a filler and allowing the same to dry, then treating the filled surface of the plug with decalcomania varnish, then, before the said varnish is completely dry, applying decalcomania stripe to the plug, then removing the decalcomania stripe, then finishing the nose and belly of the plug, then applying waterproof varnish over the entire surface of the plug, and finally applying trimmings to the plug.

1,385,628. SHEET-METAL WHEEL. PIERRE L. LAUBB, Boulogne, France, assignor to Louis Renault, Billancourt, France. Filed Feb. 25, 1920. Serial No. 361,191. 2 Claims. (Cl. 301—9.)



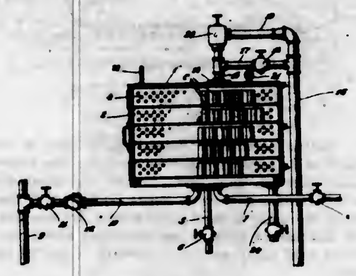
1. In a sheet metal wheel of the disk type, the combination of a hub supporting a brake drum or the like, a central opening formed in the web of said wheel, means connecting the web of the wheel with said brake drum or the like at a point removed from the central opening, and a cap or nut carried by said hub for clamping the portion of said wheel adjacent the central opening thereof to the hub, whereby the portion of the web of the wheel between the brake drum connection and the center thereof will be forced inwardly and flexed and a resilient connection produced.

1,385,629. SPRING-TIRE FOR VEHICLE-WHEELS. ALBERT K. LOVELL, New Hartford, Conn. Filed July 10, 1919. Serial No. 309,819. 2 Claims. (Cl. 152—8.)



2. A spring tire comprising a band doubled upon itself near one end, the band given a convolution and again reversed and coiled within the outer convolution, the band near its inner end doubled, to form an eye, and then continued in a reverse direction to form a convolution of predetermined size and again doubled to form an eye, the inner end of the band being turned backward and outside the inner convolution, the said eyes being formed with interlocking knuckles and a pin extending through said knuckles whereby they are connected together.

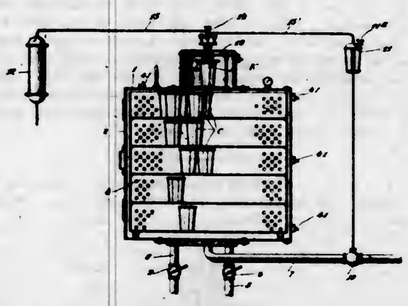
1,385,630. METHOD AND APPARATUS FOR COOLING PACKAGES IN PROCESSING. GEORGE W. LUHRMANN, Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 8, 1920. Serial No. 350,237. 13 Claims. (Cl. 99—2.)



1. In the processing of materials in sealed packages, the method which resides in maintaining the packages under an adequate external pressure to counteract internal pressures while subjecting them to a continuous circulation of cooling fluid and controlling the relief of pressures supplied to the packages by pressures developed in the supplying of cooling fluid to the packages.

4. In an apparatus for preserving, the combination of a retort, means for sustaining packages within the retort, means arranged to introduce a cooling liquid into the retort below packages therein, means arranged to withdraw cooling liquid from the retort above packages therein, means operable directly by pressure within the retort for controlling the introduction of fluid pressure into the retort, and relief means associated with the discharge means and operable by pressures within the retort to permit relief of fluid pressure therefrom.

1,385,631. DEVICE FOR CONTROLLING PRESSURE-PROCESSING. GEORGE W. LUHRMANN, Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 8, 1920. Serial No. 350,238. 32 Claims. (Cl. 99—2.)

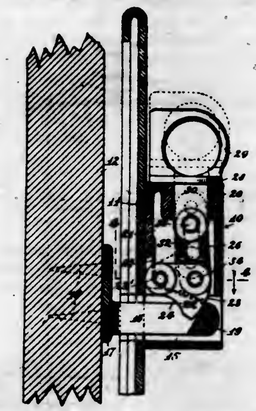


1. An apparatus for controlling processing, comprising a receptacle adapted to inclose a package, means for applying heat to a package so inclosed, means for applying pressure externally to such package to counteract pressures developed therein by the heat, a controlling device disposed externally of the receptacle and operable to regulate the pressure applied to the package and means operable by a sealed package within the receptacle and effective upon the controlling device.

20. In a processing apparatus, in combination with a retort, a pressure operated device disposed outside the retort, a movable detecting member operable inside the retort for controlling the operation of the pressure operated device, and means for sustaining a package within the retort in operative association with the detecting member.

31. In a processing apparatus, the combination of a receptacle for a package, means for applying fluid to a package within the receptacle, a valve mounted outside of the receptacle and controlling the application of fluid, and a detecting element effective upon the valve and movable relative thereto by a package within the receptacle.

1,385,632. LATCH. LEO F. MCNALLY, Brooklyn, N. Y., assignor to David W. Pye, Red Bank, N. J. Filed Jan. 8, 1920. Serial No. 350,113. 3 Claims. (Cl. 292—227.)



1. A latch comprising a casing, a keeper, a latch bolt pivotally secured within said casing adjacent the bottom wall thereof, which passes beyond the extremity of the keeper as the latch moves into locked position, resilient means engaging said latch bolt and adapted to hold the same in extended position for engagement with said keeper, a lift slidably carried by said casing and provided with a finger-engageable portion, and means associated with said lift and said latch bolt, providing for the manual raising of said bolt by said lift and the independent raising of the bolt by the keeper.

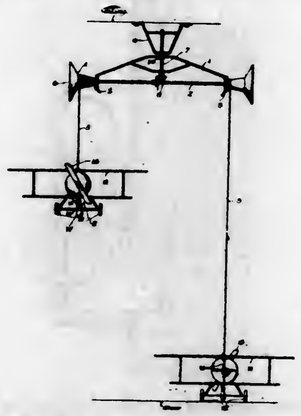
1,385,633. FISHING-TOOL. JAMES TIMOTHY MALONEY, Tulsa, Okla. Filed Sept. 15, 1920. Serial No. 410,365. 2 Claims. (Cl. 294—102.)



1. In fishing tools, a socket having its bore provided with an inwardly flaring portion near its lower end, and

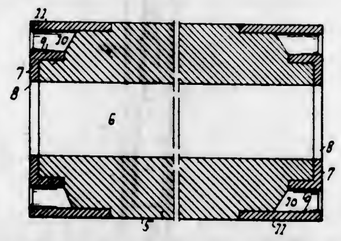
slips in the said portion having inclined outer walls cooperating with the walls of the flaring portion to move the slips inwardly when they are moved forwardly, a jarring pin connected with the socket and extending coaxially of the bore from the upper end toward the slips, a sleeve encircling the jarring pin and resting at its lower end on the slips, and a spring between the upper end of the sleeve and the socket, said jarring pin and socket having openings for permitting the discharge of water from the socket upwardly and outside of the same.

1,385,634. MECHANICAL TOY. PERCY ANDRESS MARSHALL, Los Angeles, Calif. Filed Dec. 18, 1920. Serial No. 431,768. 7 Claims. (Cl. 46—40.)



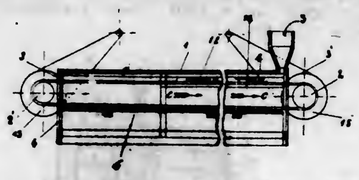
1. A toy comprising a support, a shaft journaled longitudinally of the support, a reel secured to each end of the shaft, flexible members winding on the reels in opposite directions, a representation of an airplane supported by each flexible member, means for mounting the support to rotate about a vertical axis, and means controlled by the turning of the shaft for revolving the support about said axis, each of the said representations having a hook, a weight for connection with the hook, said hooks being inclined to release the weight when the representations assume a predetermined position of inclination from centrifugal action, and a bomb carried by the hook of one of said airplanes.

1,385,635. WOODEN SHELL. ADOLPHUS J. MARTIN, Passaic, N. J. Filed Oct. 4, 1920. Serial No. 414,702. 3 Claims. (Cl. 242—68.)



2. A shell comprising a body with a reduced end and an angular bore, a metal reinforcing head member having a hub member with an angular central hole registering with the bore, a flange projecting inwardly contiguous with the hub member, a series of arms extending from the flange embedded in the body, and a rim formed on the arms fitted in the reduced end of the body.

1,385,636. APPARATUS FOR COOLING MATERIALS. MAURICE MATHY, Liege, Belgium. Filed July 17, 1919. Serial No. 311,666. 3 Claims. (Cl. 34—12.)



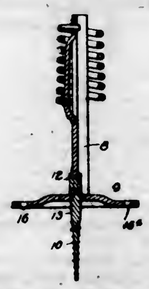
1. A cooling apparatus, comprising a box; a conveyer composed of an endless band for carrying the material to be cooled through said box; means for separating the spaces situated, respectively, above and beneath the upper stretch of the endless band; and means for causing a current of cold air to pass in one direction above the upper stretch of said band and then beneath it in the opposite direction.

1,385,637. PRINTING-PRESS GAGE. EDWARD L. MAGILL, New York, N. Y. Filed Oct. 18, 1916. Serial No. 126,293. 1 Claim. (Cl. 101—415.)



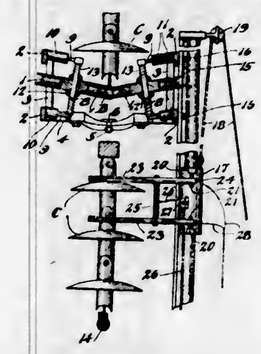
In a device of the kind described, a head member having a vertical wall provided with an opening, a prong member extending from said head member and adapted to be inserted beneath a tympan sheet, parallel flat arms extending from the head member in the same direction as the prong member and normally spaced apart in a predetermined relation but movable toward each other under pressure, and a tongue member slidable above and to different positions along said arms and having turned-under hook portions engaging the edges of and beneath the arms when the arms are in their normally spaced relation, said arms being movable toward each other under pressure a sufficient distance to permit of the engagement of the turned-under hooks with the edges and under sides of the arms, or the release of the hooks from such engagement, said tongue member being located intermediate the arms and the spaces between the arms and the tongue being wider than the length of the hooks, said arms at their free ends having downwardly turned side flanges on their outer edges serving as finger pieces to move the arms toward each other and also acting as stops to prevent the hooks from sliding off the ends of the arms.

1,385,638. SUPPORTING-BRACKET. CHARLES E. MILLER, Pittsburgh, Pa. Filed Jan. 25, 1918. Serial No. 213,806. 13 Claims. (Cl. 173—321.)



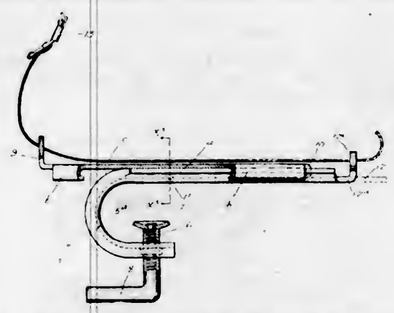
2. A support member slotted to receive the head portion of a screw, a screw the head of which lies within said slot and is clenched to said member, and a member secured to one end of the support member and provided with a hole through which said screw projects.

1,385,639. TESTING DEVICE FOR TRANSMISSION-LINE INSULATORS. FRANK MOORE, Los Angeles, Calif. Filed Mar. 21, 1919. Serial No. 284,155. 10 Claims. (Cl. 175—183.)



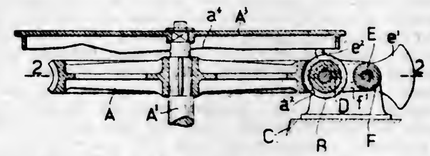
1. A testing device for transmission line insulators, including a carriage constructed to travel along a transmission line, testing fingers carried by the carriage and movable into and out of operative engagement with the insulators, and an indicator connected with the testing fingers whereby current leakage at the insulators may be detected.

1,385,640. LUGGAGE-CARRIER. DANIEL P. O'KEEFE, Los Angeles, Calif. Filed June 12, 1919. Serial No. 303,643. 2 Claims. (Cl. 224—29.)



1. A luggage carrier, comprising two elongated members, means for clamping one of the same to a running-board or other support, both of said members being provided with longitudinal side flanges, two of said flanges being curved to slidably overlap the other two flanges, each of said members being provided at one end with an eye, a strap rove through said eyes and overlying said members, the upper member being provided at the end opposite the eye of that member with a stop, the lower member being provided with a stop remote from the eye of said lower member and adapted to co-act with said first named stop of said upper member, said eye of said lower member lying initially substantially within the longitudinal plane of said lower member whereby said members may be assembled together, said eye of said lower member being thereafter directed upwardly into position to engage with said stop upon the upper member; whereby, due to the co-action of said stops and said eye upon said lower member, said members are limited as to lengthwise relative movement.

1,385,641. WORM-GEAR. WILHELM POHL, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 4, 1920. Serial No. 408,387. 6 Claims. (Cl. 74—36.)



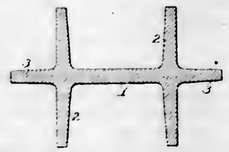
1. Worm-gearing having means for preventing irregularities in the angular movement of the worm-wheel, comprising means for varying the movement of the worm to compensate for inequalities in pitch of the gear teeth.

1,385,642. GAME OR TOY. LOUISE K. RESTEIN, Philadelphia, Pa. Filed Nov. 1, 1920. Serial No. 420,864. 2 Claims. (Cl. 46—69.)



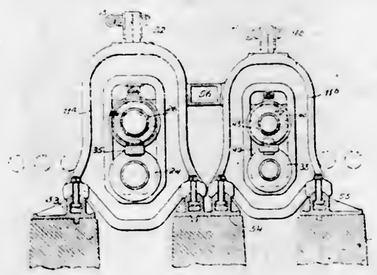
1. A toy or game apparatus comprising the combination of a straight shaft having at each end a headed pin and a cupped portion, and rubber balls having cavities conforming to and receiving the headed pins, substantially as described.

1,385,643. ROLLED METAL REINFORCEMENT FOR CONCRETE POLES AND PILES. ALVIN L. ROBERTS, Philadelphia, Pa. Filed Nov. 25, 1919. Serial No. 340,573. 1 Claim. (Cl. 72—109.)



A rolled metal shape composed of a web having parallel faces, side members integral with the edges of the web and tapered from the web outwardly, being thicker at their points of juncture with the web than at their free edges and a tapering rib on each side member and in the plane of the web, the web, side members and ribs being of substantially the same thickness at their meeting points.

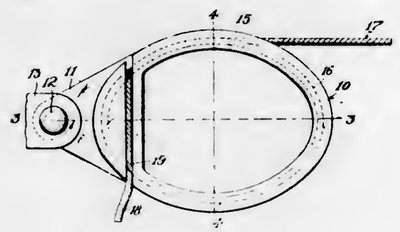
1,385,644. UNIVERSAL MILL. ALVIN L. ROBERTS, Philadelphia, Pa. Filed Jan. 15, 1920. Serial No. 351,630. 2 Claims. (Cl. 80—34.)



1. In a mill for rolling beams, columns and the like, the combination of a preliminary or roughing mill, con-

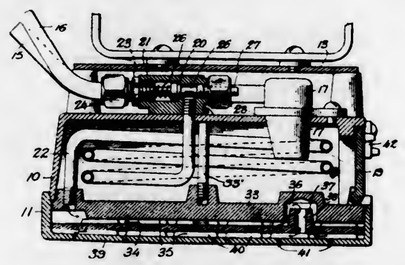
sisting of one stand with two main horizontal rolls placed one above the other and so connected that each has an equal vertical adjustment toward or away from each other and vertical side rolls with doubly inclined faces, placed at opposite ends and in a plane passing between the main horizontal rolls, and their axes all in the same vertical plane; and a finishing mill, consisting of two stands of rolls, the first or main finishing mill having two main horizontal rolls placed one above the other, and one having a tapered collar at one end; vertical rolls placed at opposite ends and between the main horizontal rolls, one of said side rolls provided with a tapered or conical portion to coact with the conical portion on the horizontal roll; the second or supplementary finishing mill having two main horizontal rolls placed one above the other roll and having projecting shoulder or collar at one side of the central portion, with vertical side rolls placed at opposite ends and between the main horizontal rolls and adapted by their circumferential outline to produce the required shape of a rolled beam or column.

1,385,645. CABLE OR ROPE CONNECTOR OR ANCHOR. JOHN HENRY ROSEMEYER, Elmira, Idaho. Filed Dec. 9, 1920. Serial No. 429,414. 2 Claims. (Cl. 24—129.)



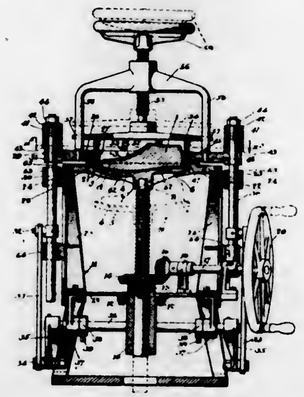
1. A cable hitch comprising an integral one piece body having a single peripheral and continuous groove and also having a transverse surface groove thereacross whose ends communicate with spaced portions of the peripheral groove, whereby the free end of a cable traversing the transverse groove will be gripped at opposite ends of the said groove by the coil of a cable disposed completely around in the peripheral groove.

1,385,646. SADIRON. NATHAN RUBENSTEIN, New York, N. Y. Filed Mar. 30, 1920. Serial No. 369,910. 4 Claims. (Cl. 68—26.)



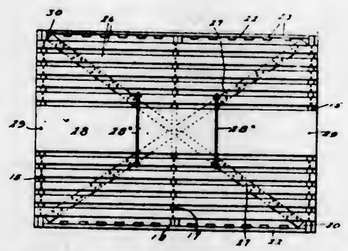
2. In a sad iron, the combination of a hollow iron comprising a perforated bottom section and an upper section having a handle, a plate in the bottom section and having a steam passage, ribs adapted to provide spaces above and below said plate, a second plate above the first, a water trap between the two plates, a water pipe entering the upper section as a coil and terminating below the second plate, a fuel burner in the upper section, a normally closed valve in the water pipe, and a lever adjacent the handle to open the valve.

1,385,647. SHOE-MACHINE. SAMUEL STRAUSS, Los Angeles, Calif., assignor to Los Angeles Trust and Savings Bank, trustee, Los Angeles, Calif., a Corporation of California. Filed July 22, 1918, Serial No. 246,146. Renewed Dec. 20, 1920. Serial No. 432,139. 13 Claims. (Cl. 12—1.)



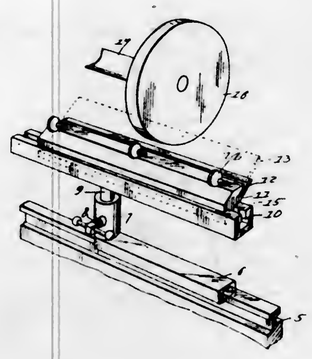
1. A shoe machine comprising a platen, a last adapted to be positioned on a sole resting on the platen, a collar, means to hold a piece of leather on the collar, and means to produce relative movement of the collar and platen toward one another to stretch the leather over the last.

1,385,648. POULTRY-COOP. JAMES G. SHERIDAN, Parnell, Iowa. Filed June 12, 1920. Serial No. 388,572. 2 Claims. (Cl. 217—36.)



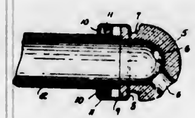
1. A shipping coop for poultry comprising a bottom, end walls secured upon the bottom, a partition secured upon the bottom at the transverse center thereof, said partition and end walls being all of the same height and being formed of top and bottom bars and vertical slats secured upon the inner faces thereof, corner posts triangular in cross section to which the bars of the ends are secured, side members secured upon the edges of the bottom and connected at their ends with said corner posts, said side members being formed of upper and lower bars and vertical slats secured thereto, and a cover secured upon said end and partition members, said cover being formed of slats and being provided with openings closed by a movable door, and diagonal braces secured to the cover and abutting against said posts.

1,385,649. GRINDING ATTACHMENT FOR LATHES. GEORGE M. SHERMAN, Tahlequah, Okla. Filed Sept. 28, 1920. Serial No. 413,255. 2 Claims. (Cl. 51—216.)



1. A grinding attachment for machines including a lathe bed plate, a guiding element formed on the bed plate, a base mounted to move on the guiding element, a hollow boss on the base, a stationary guide having a groove and having a pivot pin positioned for adjustment within the hollow boss, means for holding the pin in its positions of adjustment, a work clamp having a T-head fitted in the groove to permit the work clamp to be adjusted longitudinally of the stationary guide, said work clamp having a diagonally disposed seat, and clamping means for contacting with the blade positioned in the seat to hold the same against movement.

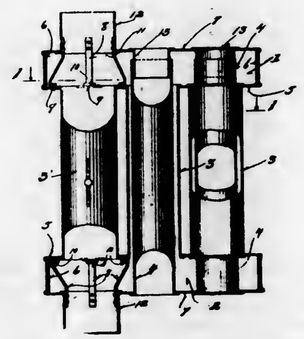
1,385,650. TERMINAL-FITTING FOR ELECTRICAL INSTALLATIONS. WHEELER H. VIBBER, New London, Conn., assignor of one-half to The Gillette-Vibber Co., New London, Conn., a Corporation. Filed Aug. 9, 1920. Serial No. 402,263. 2 Claims. (Cl. 247—6.)



1. A terminal fitting for electrical installation, having an insulating-head formed with a peripheral groove, a nut adapted to be mounted upon the threaded end of a conduit-pipe, and a light sheet-metal mounting-band having one end turned into the said peripheral groove of the insulating-head, and its other end turned over upon the said nut and adapted to be compressed thereupon for its non-rotatable connection therewith.

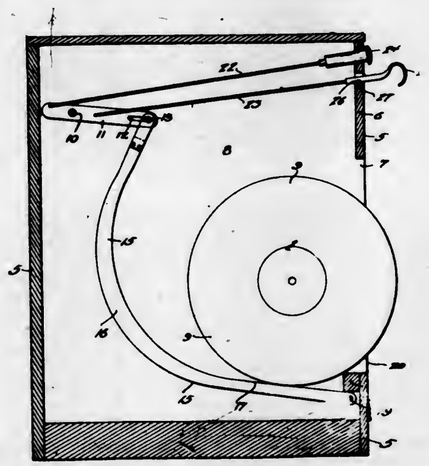
1,385,651. AIR-HEATER. EZRA T. WHITING, Green Lake, Wis. Filed Mar. 1, 1920. Serial No. 362,599. 3 Claims. (Cl. 257—170.)

1. In a heater, end heads, each of said heads having a removable cover, an outer tubular member connecting the heads to circulate fluid from one to the other, a supply member entering one of the heads, an exhaust member connected with the other head, and an inner tubular member extending through the outer tubular member and opening through each of the heads, said inner tubular



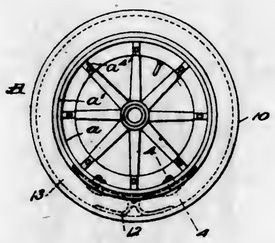
member being separable into two sections, one section being secured to each cover and removable therewith.

1,385,652. TALKING-MACHINE-RECORD-DISPENSING APPARATUS. GEORGE J. WILLIAMS, Camden, N. J., assignor of one-half to William T. Vaughan, Philadelphia, Pa. Filed Aug. 18, 1920. Serial No. 404,303. 2 Claims. (Cl. 211—16.)



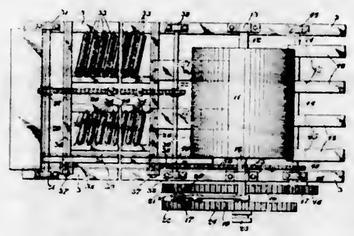
1. The combination of a record cabinet including means providing a compartment and having an opening leading outwardly from said compartment; a cradle support pivotally mounted at its lower forward portion in said compartment and having its rear portion, opposite said opening, extending upwardly whereby a record can be supported edgewise on said cradle support and a part of said cradle support will be positioned to the rear of said record; a pivotally mounted lever; means providing a pin and slot connection between said lever and the upper portion of the rear of said cradle support; and means extending to the outside of said cabinet and attached to said lever whereby said lever can be freely swung on its pivot to raise said support on its pivot to cause said record to roll outwardly on the lower portion of said cradle support.

1,385,653. TIRE CONSTRUCTION. OTTAVIO ZANCAN, New York. N. Y. Filed Apr. 15, 1920. Serial No. 374,035. (Cl. 152—13.)



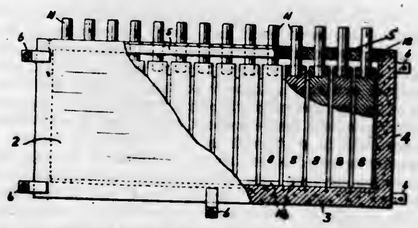
5. An anchoring member for the ends of inner tubes comprising a member of resilient material having a web portion and hollow portions extending from such web portion in opposite directions, said extended portions having external configurations to fit within the interior of a casing or shoe, the internal configurations of each hollow portion being adapted to produce a pocket to receive and anchor the inflated and closed end of a tube.

1,385,654. PRINTING-MACHINE. WILLIAM M. BACON, Chicago, Ill., assignor to Enameled Steel Sign Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1920. Serial No. 369,460. 10 Claims. (Cl. 271—52.)



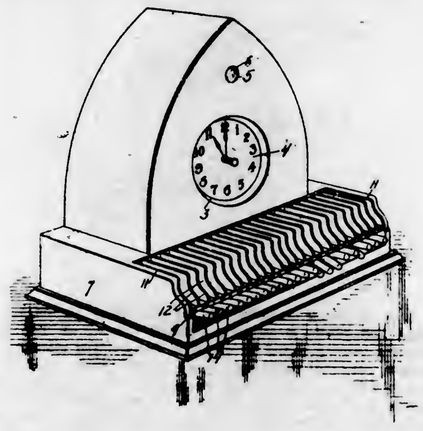
1. In a printing machine, including a main frame, a printing cylinder revolubly mounted above the upper surface of the main frame, a platen located below the upper surface of the main frame, feeding mechanism comprising a series of feed rollers carried in the main frame for supporting flat sheets to be fed between said printing cylinder and said platen, a belt having contact members thereon for moving said sheets on said rollers, and a guide for laterally alining the sheets so that they will be received between the printing cylinder and the platen at a predetermined lateral point.

1,385,655. ELECTROLYTIC CELL. GERVAIS BAILLIO, Philadelphia, Pa. Filed Oct. 25, 1920. Serial No. 419,223. 9 Claims. (Cl. 204—5.)



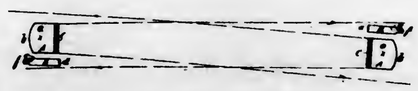
1. An electrolytic cell comprising a body forming portion and abutting side members, a cathode in each side member, a sheet of porous material interposed between the abutting faces of the body and each side member, means for clamping the side members against the body, and means for positioning an anode in the body portion between the cathodes.

1,385,656. MEMORY-CLOCK. HARRY BATES, New York, N. Y. Filed Mar. 2, 1918. Serial No. 220,098. 2 Claims. (Cl. 161—5.)



1. In an annunciator clock, a clock mechanism provided with a central hand driving shaft, an arm of insulating material mounted upon said shaft, an annular conductor surrounding said shaft and insulated therefrom, a plurality of binding posts parallel with said shaft and spaced concentric with said shaft at the end of said arm and provided with pointed ends toward said arm and means for longitudinally adjusting said posts, a spring bridge wiping said annular conductor and affixed to said arm at substantially a third the radial distance to said posts, the bridge having a radial spring extending from said affixing point, the extension brushing said points on said posts.

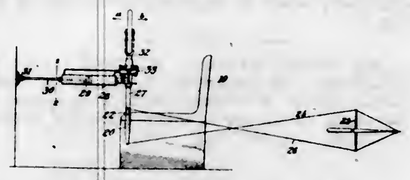
1,385,657. METHOD OF AND APPARATUS FOR UTILIZATION OF OBSERVABLE RADIATIONS. LOUIS BELL and NORMAN MARSHALL, West Newton, Mass. Filed Mar. 4, 1918. Serial No. 220,329. 12 Claims. (Cl. 250—8.)



10. A method of utilizing invisible light rays for signaling or the like, consisting in forming a directed beam of rays of from 400 $\mu\mu$ to 350 $\mu\mu$ wave lengths and in focusing said rays for observation on a fluorescent medium.

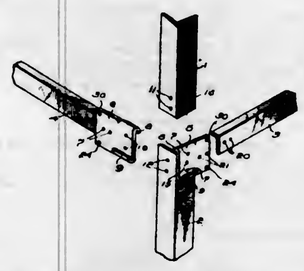
1,385,658. CONTROL FOR AERIAL MACHINES. ARTHUR F. BLASIAR, Guilford, N. Y., assignor, by mesne assignments, of forty-nine per cent. to William Bohleber, New York, N. Y. Filed Apr. 7, 1916. Serial No. 89,517. 25 Claims. (Cl. 244—29.)

7. A control for flying machines comprising a motor power actuating means in combination with means connected to a part of the machine to be controlled and adapted to be actuated by the actuating means, manually movable means carried by said actuated means for controlling



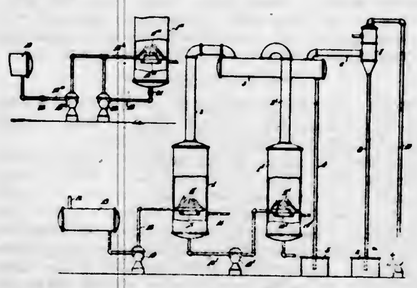
the motor power actuating means, and means on said manual means for operating said actuated means upon the failure of operation of the motor power means.

1,385,659. DERRICK-FITTING. RICHARD RALPH BLOSS and WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed Oct. 2, 1920. Serial No. 414,240. 2 Claims. (Cl. 189—13.)



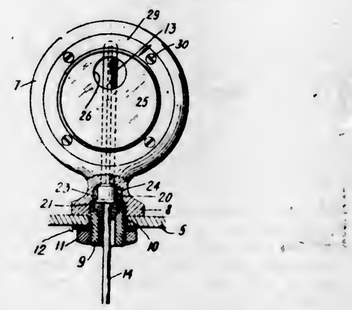
1. A derrick fitting comprising a pair of leg sections and a pair of horizontal girths formed of angle iron, a plate secured to one end of one of said girths, said plate being provided with a portion projecting beyond the end of the girth, a plate carried by one end of one of said leg sections and projecting laterally therefrom, the other girth being adapted to be secured to said second plate, the ends of said leg sections being overlapped, and means for securing the overlapped ends to the projecting portion of said first plate.

1,385,660. DEODORIZATION OF OILS. JOHN W. BODMAN, Western Springs, and TRUMAN M. GODFREY, Chicago, Ill., assignors to William Garrigue & Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 12, 1919. Serial No. 316,940. 8 Claims. (Cl. 87—12.)



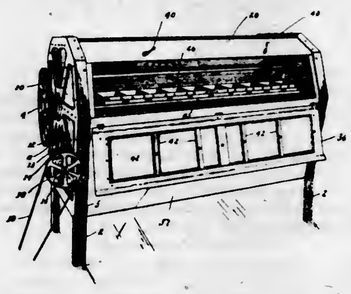
1. A process of deodorizing oil, which comprises bringing it, in the form of spray, only, into contact with a gaseous carrier, in a vacuum, at a temperature sufficient for the evaporation of odorous constituents of the oil, and continuously removing the unevaporated oil quickly to a place of considerably lower temperature than that in which the oil spray and carrier mingled.

1,385,661. INSTRUMENT. HARRISON HURLBERT BOYCE, Forest Hills, N. Y. Filed July 14, 1917. Serial No. 180,579. 5 Claims. (Cl. 285—161.)



1. In an instrument of the character described, the combination of a transparent indicating tube of capillary bore, a flexible metal tube of capillary bore, the end of one of said tubes fitting within a recess formed in the end of the other tube, and a mass of binding material molded around and inclosing the joined ends of both tubes so as to firmly unite the ends of said tubes.

1,385,662. BAKING-OVEN. JAMES K. BRADLEY, Cleveland Heights, Ohio, assignor to The National System of Bakeries Co., Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 13, 1919. Serial No. 330,440. 3 Claims. (Cl. 107—59.)

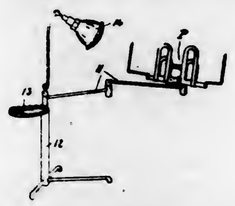


1. In a baking oven the combination of end members provided with inturned apertured flanges, and panels adapted to be removably mounted between said end members, said panels having abutting ends and extending portions adapted to overlap, such overlapping portions being removably bolted together, said panels having apertures in their ends adapted to be alined with such apertures in said flanges and bolts adapted to pass through such alined apertures to secure said panels to said end members.

1,385,663. BOOK-HOLDER. ERNST BRAUCHLI, St. Gallen, Switzerland. Filed Apr. 13, 1921. Serial No. 461,133. 2 Claims. (Cl. 45—61.)

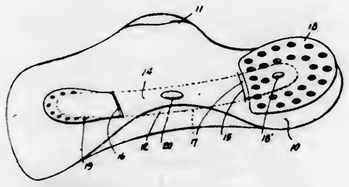
2. In a device of the character set forth, a carrier bar presenting a cylindrical middle portion and laterally extending guide arms, a double frame upstandingly fixed to

said carrier bar and comprising two pairs of front and rear loops, adapted to receive between them the opened-up cover boards of a book, a bridge piece connecting the two rear loops, arms slidingly arranged in said guide arms and eyes at the extremities of said slide arms, stop means on said slide arms designed for coöperation with said cylindrical carrier bar portion to limit the relative longitudinal displacement of said slide arms, bent-off



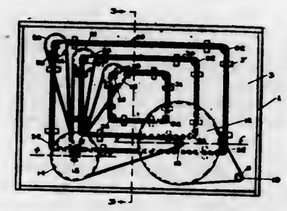
leaf holders supported in said slide arm eyes, and clamping means, comprising a slit tubular member snugly surrounding said cylindrical carrier bar portion, two apertured arms respectively laterally extending from the slit edges of said tubular member, a member adapted to be adjustably secured to a fixed object, and screw bolt and nut means coöperating with said apertured arms and said screw bolt in fixed connection with said adjustably securable member.

1,385,664. ORTHOPEDIC METATARSAL ARCH-SUPPORT. NUNZIO D. CALCULLI, New York, N. Y. Filed Feb. 17, 1921. Serial No. 445,774. 5 Claims. (Cl. 36—71.)



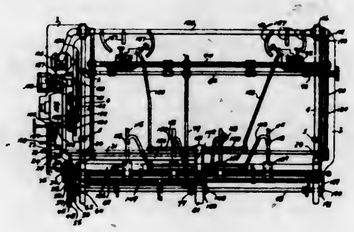
1. The herein described arch support, comprising a main portion, having a recess formed in its bottom surface, a spring extending longitudinally along said recess and projecting at its ends upward through the upper surface of the main portion and spaced therefrom, and a pair of plates attached to the respective ends of the spring and serving to resiliently support the heel and metatarsal portions of the foot.

1,385,665. ADVERTISING DEVICE. RONALD ST. CLAIR CARTER, Vancouver, British Columbia, Canada. Filed July 15, 1920. Serial No. 396,380. 2 Claims. (Cl. 40—96.)



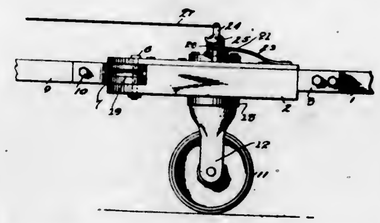
1. An advertising device comprising an upright rectangularly slotted partition, an endless belt arranged to travel behind and opposite said slot, and a plurality of advertising plates pivotally carried by said belt disposed in front of said partition, the point of pivotal connection being above the horisontal center line of the plates.

1,385,666. SHEET-FEEDING MACHINE. CARL E. CHRISTOPHEL, Pearl River, N. Y., assignor to Dexter Folder Company, Pearl River, N. Y., a Corporation of New York. Filed Oct. 9, 1918. Serial No. 257,517. 18 Claims. (Cl. 271—28.)



3. In a machine of the character described, a fixed bracket or support, a slide vertically reciprocable thereon, a guide bar operated by said slide, a rod reciprocable in said guide, a sheet engaging device mounted on said rod, and means for reciprocating said rod and moving said slide vertically.

1,385,667. STEERING MECHANISM FOR TRAILERS. GEORGE EDWARD CONRAD, Stillwater, Minn. Filed Aug. 18, 1920. Serial No. 404,394. 4 Claims. (Cl. 280—84.)

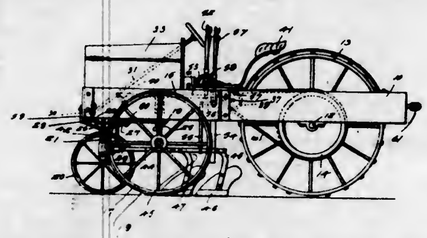


2. In combination with the guiding caster wheel of a trailer and its support, of a casing through which said support extends and having a bearing therein, a gear wheel rigidly mounted on said support, a pair of spaced apart rack bars on opposite sides of said gear wheel and in mesh therewith, guides within the casing coacting with said racks to maintain them and the gear wheel at all times in mesh, a tongue head pivotally mounted within the front of the casing and adapted to be connected with a power vehicle, and parallel links pivotally connecting the front ends of the rack bars with the tongue head.

1,385,668. PLOWING-TRACTOR. CLEVELAND CUNNINGHAM, Pittsburg, Kans. Filed Dec. 24, 1919. Serial No. 347,122. 3 Claims. (Cl. 180—25.)

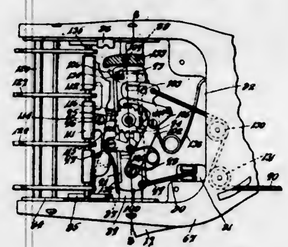
1. A plowing tractor of the character described comprising a main frame, a relatively large driving wheel disposed at the rear end of the main frame, an engine mounted upon the forward end of the frame in line with said driving wheel and operatively connected thereto to drive it, a steering wheel disposed at one forward corner of the main frame remote from that side of the frame upon which the engine is mounted, a steering wheel disposed on the other side of the main frame rearward of the first named wheel and of relatively large size, both of said steering wheels being mounted for rotative steering

movement and having arms projecting from the spindles thereof, a transversely extending steering rack, a steering wheel, a shaft having a pinion operatively engaging said



rack whereby to shift it laterally, and operative connections between the ends of said rack and the arms of the wheel spindles whereby to positively and coincidently shift said wheels for steering movement.

1,385,669. ARTIFICIAL LIMB. OTTO LE GRAND DILWORTH, Hartford, Conn. Filed July 22, 1919. Serial No. 312,571. 48 Claims. (Cl. 3—12.)



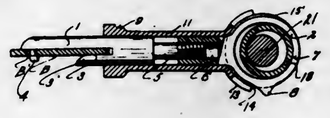
1. An artificial limb including a hand, fingers attached to the hand for bending movement, means for effecting bending movement of the fingers, mechanism movable independently of the bending means for locking the fingers in a bent position, and means operated always in one direction for effecting locking and unlocking movement, of said locking mechanism.

1,385,670. DISPLAY-STAND. WILLIAM MANSON DOCKER and EDWARD DOCKER, Kamloops, British Columbia, Canada. Filed Dec. 29, 1920. Serial No. 433,903. 3 Claims. (Cl. 211—24.)



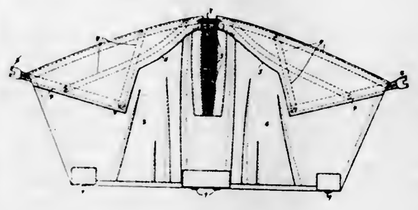
1. A display stand comprising a card formed to represent a shirt front and provided with means whereby a tie may be supported thereon to present a knotted appearance without knotting, and means for supporting a collar on said stand whereby the collar and tie are displayed as on the person.

1,385,671. SAW-HANDLE. JESS DRAGON, Enaville, Idaho, assignor of one-half to William A. Boro, Enaville, Idaho. Filed Jan. 18, 1921. Serial No. 438,102. 3 Claims. (Cl. 145—111.)



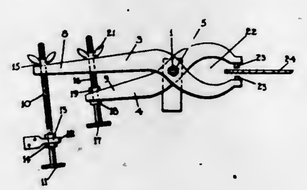
3. The combination with a saw blade, a hollow bracket having a grooved blade head, a draw bolt within the bracket coupled to the blade, a handle-head on the bracket, and an open head on the draw bolt, of a rotatable spindle having an eccentric portion in said open head and adapted to frictionally engage said handle head, a threaded extension on said eccentric portion, and a handle having a ferrule threaded on said extension, for the purpose described.

1,385,672. BRASSIÈRE. MARY DRESBACH, New Haven, Conn. Filed Dec. 6, 1920. Serial No. 428,507. 3 Claims. (Cl. 2—73.)



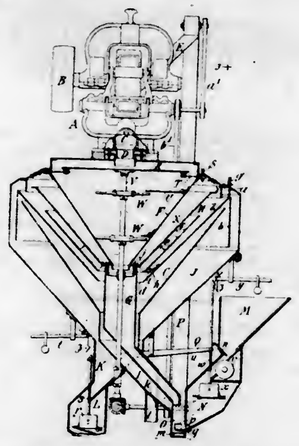
1. A brassière provided at opposite sides with means for attachment to the sides of the corset combined with triangular metal frames arranged at each side of the center the inner ends of the frames connected by a coil spring.

1,385,673. SAW-GUIDE. LAWSON F. FAULKNER, Aleza Lake, British Columbia, Canada. Filed Sept. 7, 1920. Serial No. 408,674. 1 Claim. (Cl. 193—165.)



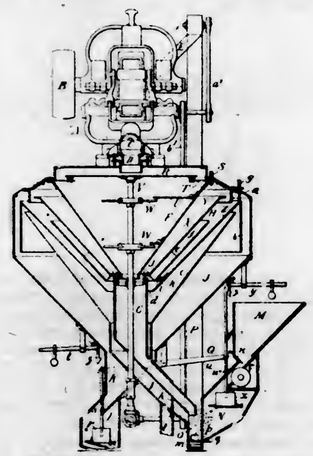
A saw guide comprising a vertical stud, a pair of jaw members pivotally mounted on said stud adapted to have the jaw portions thereof disposed on each side of the saw blade, the rear end of one member being forked and of less length than the rear end of the other member, a rigidly secured forked bracket, a screw passed rotatably through said forked bracket threaded into the rear end of the longer member provided with fixed collars arranged on the opposite sides of the fork, a screw passed rotatably through the fork of the shorter member threaded into the longer one provided with fixed collars arranged on the opposite sides of the fork, and means for locking said screws against movement.

1,385,674. METHOD AND APPARATUS FOR TREATING PULVERIZED MATERIAL. GEORGE HOLT FRASER, Brooklyn, N. Y. Filed Sept. 25, 1912, Serial No. 722,233. Renewed Aug. 15, 1918. Serial No. 250,079. 22 Claims. (Cl. 83—11.)



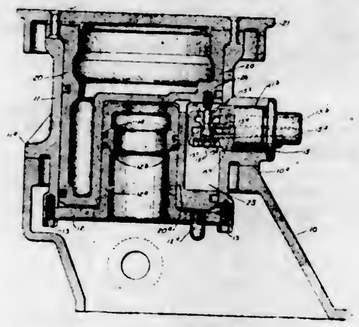
6. In combination, means affording an endless path for material, means for feeding fresh material to said path, and means for returning coarse material to said path comprising a tubular member or spout having a lower outlet and having an upper inlet for said coarse material spaced above said outlet, and having intermediate of said lower outlet an upper inlet, a lateral gravity inlet communicating with said fresh feeding means, and having a wall opposite said lateral inlet for sustaining material descending through said member from said upper inlet against inflow of fresh feed through said lateral inlet.

1,385,675. APPARATUS FOR TREATING PULVERIZED MATERIAL. GEORGE HOLT FRASER, Brooklyn, N. Y. Original application filed Sept. 25, 1912, Serial No. 722,233. Divided and this application filed Aug. 17, 1918. Serial No. 250,279. 10 Claims. (Cl. 83—11.)



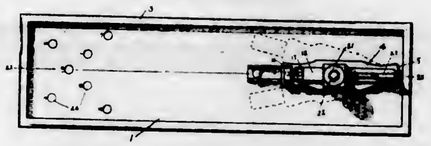
1. In combination, means for producing pulverized material comprising means affording an endless path affording an inlet for material to be pulverized and an outlet for pulverized material and comprising means having a chamber affording a complementary portion of said path and constituting a way for material in said path, means for causing material to circulate through said path, means for withdrawing fine material from said path, means for withdrawing medium material from said path, means for progressing the residue of partially pulverized material in such path and past said inlet, means for supplying through said inlet fresh material to be pulverized, and means for causing such residue of unpulverized material in said path to control inflow through said inlet of such fresh material.

1,385,676. MOLDING-MACHINE. PHILETUS W. GATES, Evanston, Ill., assignor to Mumford Molding Machine Company, a Corporation of New Jersey. Filed May 10, 1920. Serial No. 380,119. 4 Claims. (Cl. 121—14.)



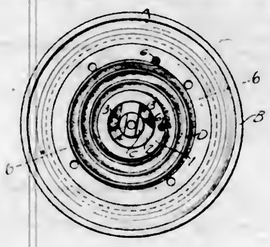
1. In a machine of the class described, a main cylinder provided with a central upstanding post, a plunger reciprocably mounted in said cylinder and having a cylindrical portion reciprocating on said post, said plunger being recessed, an automatic jolting valve projecting into said recess, and means to supply fluid under pressure to the interior of said cylindrical portion of said plunger, said supply being automatically controlled by said jolt valve.

1,385,677. GAME. HOWARD W. GILLETTE, Rochester, N. Y. Filed Sept. 11, 1920. Serial No. 409,706. 3 Claims. (Cl. 46—61.)



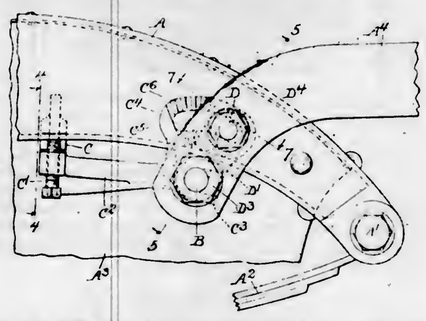
1. In a game, the combination of a board, an expelling mechanism mounted near one end of said board, said expelling mechanism comprising a block having an inclined channel extending from one end thereof and having a pocket formed at the top of the incline, a slide mounted to reciprocate over said block, a pusher mounted on the under side of said slide and projecting into the channel and pocket in said block, said slide having an opening therein, a stationary magazine mounted on top of said block, said slide being adapted to reciprocate between said block and said magazine and alternately move the opening of said slide into line with said magazine above said block and into line with the pocket in said block, missiles adapted to be transferred from said magazine to the pocket in said block by said slide when moving in one direction and adapted to be expelled from the pocket in said block by said pusher on the movement of said slide in the opposite direction.

1,385,678. TROLLEY. JOSEPH L. GUTWEILER and FREDERICK W. KUBLIN, St. Louis, Mo. Filed June 4, 1920. Serial No. 386,438. 20 Claims. (Cl. 191—59.1.)



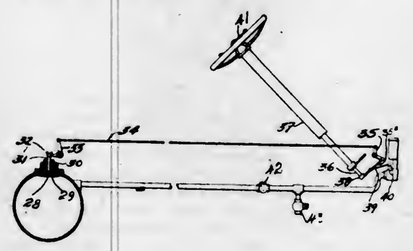
1. A trolley, comprising a harp or supporting member, and a wheel rotatably mounted in said harp in such a manner that it normally has a sliding contact with a trolley wire or conductor with which it coöperates but is capable of turning gradually about its axis when the trolley is in service so as to distribute the wear approximately uniformly over the entire surface of the wheel that bears against the trolley wire.

1,385,679. BUMPER-BRACKET. LEWIS P. HALLADAY, Decatur, Ill. Filed Mar. 28, 1921. Serial No. 456,333. 20 Claims. (Cl. 293—55)



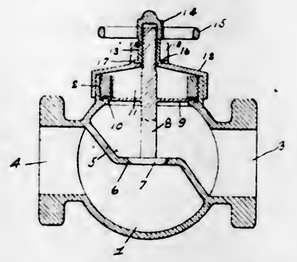
6. A clamp for automobile bumpers and the like comprising a two-part supporting member, a pivot bolt upon which the two parts are rotated and a bumper supporting arm pivoted thereon, means for separately fastening each part to the frame, and means for holding the arm against rotation.

1,385,680. VAPORIZER. JOHN F. HAMER, Pukwana, S. D. Filed Aug. 16, 1920. Serial No. 403,987. 6 Claims. (Cl. 123—119)



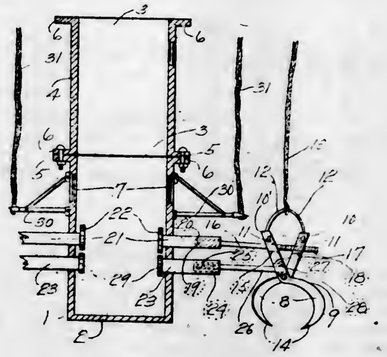
1. In a vaporizer, the combination of a tank containing liquid fuel, a carbureter, a conduit leading from the tank to the carbureter, a valve for permitting admission of air under atmospheric pressure to the tank in response to engine suction through the carbureter, a throttle for the carbureter, and means operatively connecting the throttle and valve for simultaneous control.

1,385,681. VALVE. CHARLES L. HAMMOND, Kokomo, Ind., assignor of one-third to William Seiler, Kokomo, Ind. Filed Sept. 27, 1919. Serial No. 326,890. 1 Claim. (Cl. 251—31.)



A valve structure comprising a body portion having a valve seat, a neck portion on said body having a rounded seat substantially circular in cross section, a metallic diaphragm entering said neck, a locking ring threaded into said neck above said diaphragm, the inner end face of said ring having a curved groove for bending parts of the diaphragm over said rounded seat and forming a non-leakable joint, a stem centrally of and integral with said diaphragm, and a valve integral with the inner end of said stem adapted to engage the seat in said body.

1,385,682. DIVING-TUBE. JOHN W. HAYNIE, St. Louis, Mo. Filed Feb. 12, 1921. Serial No. 444,383. 2 Claims. (Cl. 61—69.)

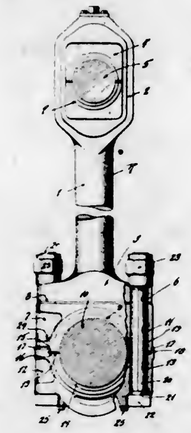


1. In combination with a diving tube and a pair of grappling hooks, two arms slidingly and rotatively extended through the tube walls, one of said arms having screw threaded connection with one shank of the hooks and the other arm having pivotal connection with the other shank.

1,385,683. BEARING. REINHARD HILDEBRAND, Webster Groves, Mo. Filed June 23, 1920. Serial No. 391,175. 5 Claims. (Cl. 64—10.)

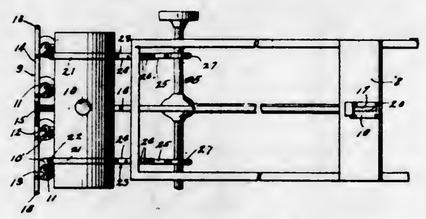
5. A bearing comprising a pair of bearing sections detachably connected together and having coöperating bear-

ing faces adapted to form a cylindrical space for the member to be rotated in the bearing, each of said bearing sections being provided with curved abutment shoulders at opposite sides of said cylindrical space, the curved abutment shoulders of one bearing section being engaged with the curved abutment shoulders of the other bearing



section, so as to interlock said bearing sections with each other, the centers of the curvature of said abutment shoulders being within said cylindrical space, and the curved abutment shoulders at one side of said cylindrical space being concentric with the abutment shoulders at the other side of said space.

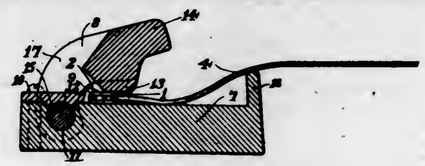
1,385,684. SPRINKLER ATTACHMENT FOR VEHICLES. ISRAEL G. HOWELL, Trenton, N. J., assignor of one-half to Alexander Perey, Trenton, N. J. Filed Aug. 15, 1917. Serial No. 186,372. 2 Claims. (Cl. 299—29.)



1. In a sprinkler attachment for vehicles, the combination with a supporting frame, a tank carried thereby and having a plurality of discharge nozzles, a control valve for each nozzle, and a crank on its stem; of a transverse bar pivoted on the several cranks and having handles at its extremities, a rod having connection with said bar, a foot lever connected with the front end of said rod, and a toothed plate with which said lever may be engaged in its various positions of adjustment.

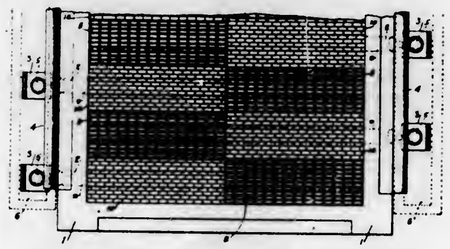
1,385,685. BELT-FASTENING DEVICE. ISIDOR M. JACOBS, Kansas City, and WILLIAM CRAMER, St. Louis, Mo., assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 4, 1920. Serial No. 428,364. 3 Claims. (Cl. 1—50.)

1. In a belt fastening device, the combination of an anvil, a bearing in said anvil, a top bearing, a movable upper die, depending flanges on said die, a shaft connecting said flanges, said shaft fitting in said bearing and



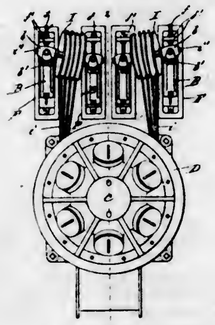
constituting a pivot, said top bearing provided with staple supporting teeth, means to secure staples in said teeth, and a belt supporting extension on said anvil.

1,385,686. APPARATUS FOR BAKING MATERIAL, (UPDRAFT-KILN.) ITHAMAR M. JUSTICE and GLEN A. WILLIGMAN, Dayton, Ohio. Filed Nov. 22, 1920. Serial No. 425,592. 3 Claims. (Cl. 25—147.)



1. In combination, an open top kiln, ware therein, a platen on top of said ware arranged closer on one side than on the other, a plurality of oppositely located and staggered apertures in the bottom of the kiln for introducing fuel in combustion, burners adjacent said apertures and means of supplying air and fuel to said burners, whereby ware is treated in said kiln.

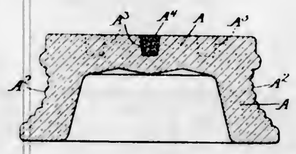
1,385,687. DRIVING MECHANISM FOR CRUSHERS. JOSEPH E. KENNEDY, New York, N. Y. Original application filed Oct. 23, 1917, Serial No. 198,023. Divided and this application filed Jan. 12, 1918. Serial No. 211,634. 3 Claims. (Cl. 74—21.)



1. A belt drive comprising a driven pulley mounted to rotate about a vertical axis formed with one or more rope

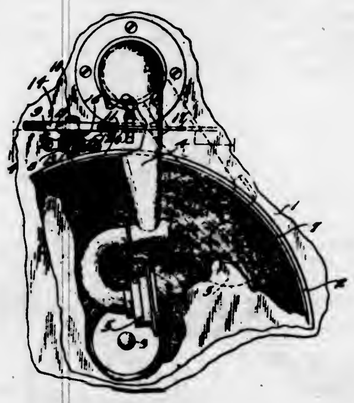
grooves, one or more drive ropes engaging said pulley, a horisontal drive shaft and a power pulley thereon formed with grooves corresponding to the driven pulley engaging with said endless drive rope or ropes, guide pulleys and shafts therefor intermediately installed between said power pulley and said rotatable sleeve pulley and engaging with said endless drive ropes, and means for effecting the universal adjustment of said intermediate shafts and guide pulleys, for the purpose set forth.

1,385,688. GLASS PAVEMENT-LIGHT. FREDERICK L. KEPPLER, New York, N. Y. Filed Feb. 5, 1917. Serial No. 146,641. 2 Claims. (Cl. 94—29.)



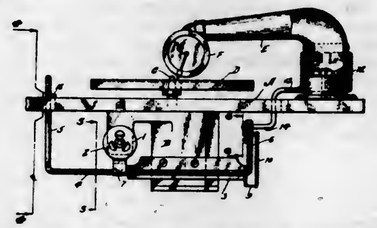
1. As a new article of manufacture, a tile unit comprising a glass body with a substantially flat upper surface, a depending rim about its edge, a plurality of projections from the lower surface of the tile, within the rim, shaped to form strengthening and light diffusing areas, and a series of abrasive plugs set in the upper surface of the tile above the projections, each plug lying well within the boundary of the projections over which it is placed.

1,385,689. STOP MECHANISM FOR TALKING-MACHINES. EDWIN O. KLEMM, Saginaw, Mich., assignor, by direct and mesne assignments, to Klemm Manufacturing Company, Saginaw, Mich. Filed Dec. 23, 1916. Serial No. 138,636. 19 Claims. (Cl. 192—116.)



5. In a device of the class described, the combination with a rotative record support and a traveling member movable relative thereto, of brake mechanism for the record support, and coöperating means between the traveling member and the brake mechanism to control the latter, comprising relatively movable parts respectively connected to the traveling member and brake mechanism, one of said parts being adjustably carried, and said parts being adapted to interlock at a certain portion of their relative movement, so that a fixed relation of the parts may be had during certain movement of the traveling member for presetting operation in respect to brake operation.

1,385,690. STOP MECHANISM FOR GRAPHOPHONES. EDWIN O. KLEMM, Dayton, Ohio, assignor to Klemm Manufacturing Company, Saginaw, Mich. Filed July 15, 1919. Serial No. 310,910. 13 Claims. (Cl. 192—116.)



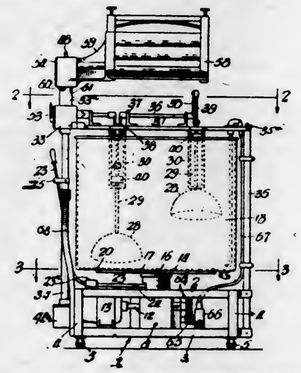
3. Graphophone mechanism comprising in combination, a record carrier and a reproducer to traverse a record on said carrier, driving mechanism for the carrier, stop means for the driving mechanism, including a brake member, an arm carrying the reproducer, a trip on the reproducer arm movable with and independently thereof, and a detent connected with the brake member to control the operativeness thereof, said detent embodying an arm having a portion to engage and cause movement of the trip relatively to the arm, and a second portion to engage the trip and to be restrained from movement by the trip, and spring means to move the detent arm when the restraining influence of the trip is removed therefrom.

1,385,691. ARTICLE OF JEWELRY. AUGUST KNAUS, Philadelphia, Pa. Filed July 23, 1920. Serial No. 398,510. 3 Claims. (Cl. 63—29.)



1. In an article of jewelry of the character stated, a plate having therein an opening, and recesses in the wall thereof, and an interchangeable center composed of a frame and an ornament fixed thereto, and means on the inner side of said center adapted to connect the latter with said plate, said means consisting of members on said frame adapted to pass through said opening and enter said recesses.

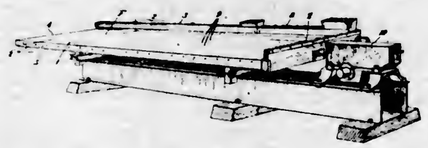
1,385,692. WASHING-MACHINE. CHARLES CALVERT LAMB, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,473. 11 Claims. (Cl. 74—14.)



11. In a gearing of the character described, the combination of a stand, an upright main operating shaft rota-

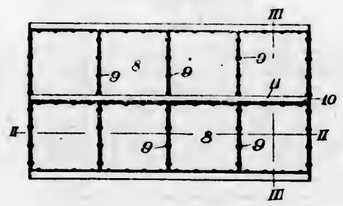
tably mounted on said stand, a rotary driven member supported in horizontal position above said stand and loose on the upper end of said shaft and adapted to support a tub, a motor on said stand, a power transmitting connection between said motor and said shaft, a clutch sleeve splined on said shaft below said rotary member and having a conical clutch surface adapted to be moved into frictional clutch engagement with the complementary conical clutch surface on said rotary member, an operating lever pivoted on said stand and connected with said sleeve for moving the same into and out of clutch engagement with said rotary member, and a weighted member on said lever for holding said clutch surfaces in contact when engaged.

1,385,693. CONCENTRATOR-TABLE. EDMUND T. LEDNUM, Denver, Colo., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 19, 1919. Serial No. 339,115. 9 Claims. (Cl. 83—88.)



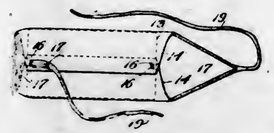
1. An ore concentrator table having, at least in part, a surface of pyroxylin-coated fabric.

1,385,694. METALLIC DOOR. EDWARD H. MCCLOUD, Columbus, Ohio, assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed July 31, 1918. Serial No. 247,553. 2 Claims. (Cl. 189—46.)



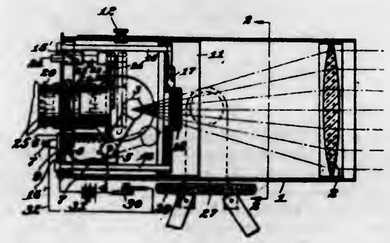
1. A door section comprising, in combination, a plurality of rows of flanged pan-like cells, a reinforcing bar located between and secured to the flanges of the cells, reinforcing bars secured to the outer flanges of the rows of cells, said reinforcing bars being of greater depth than the flanges of the cells.

1,385,695. CARRIER FOR LAUNDRY ARTICLES. DAVID D. MACCORMACK and MARY A. MACCORMACK, Boston, Mass. Filed Dec. 28, 1920. Serial No. 433,680. 2 Claims. (Cl. 150—52.)



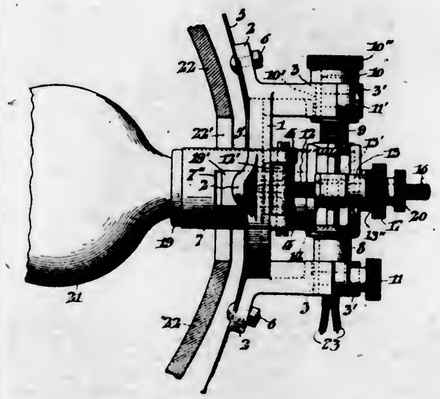
2. A washable carrier of the character stated, comprising a flexible sheet having a central portion on which articles may be assembled in a pile, and a marginal portion surrounding said central portion, and including two straight edged longitudinal flaps, adapted to be overlapped at the top of the pile, and two peaked transverse flaps, formed at their outer end portions to be grasped and drawn in opposite directions, toward the ends of the pile; and flexible tapes attached to the peaks of the transverse flaps, the outer attenuated portions of the transverse flaps being compressible and adapted to cross each other and form portions of confining ligatures, other portions of which are formed by said tapes.

1,385,696. METHOD AND APPARATUS FOR UTILIZATION OF OBSERVABLE RADIATIONS. NORMAN MARSHALL and LOUIS BELL, West Newton, Mass. Filed Feb. 1, 1919. Serial No. 274,518. 15 Claims. (Cl. 250—8.)



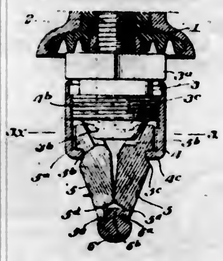
1. In signal apparatus of the class described, a combined projecting and receiving device comprising an objective and an eye piece, a source of radiant energy and a fluorescent medium both mounted in selective operative relation to said objective and a ray filter in inclusive association with said related parts.

1,385,697. LIGHT-FOCUSING MECHANISM. WALTER S. MAYER, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 9, 1918. Serial No. 253,278. 13 Claims. (Cl. 240—44.)



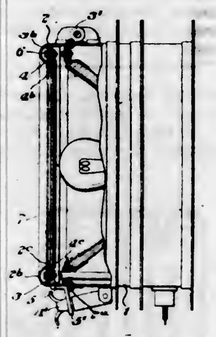
1. In a light focusing device, the combination with bearing means, of a holder, means to have an oscillatory and longitudinal movement relative to said bearing means whereby said holder is adapted to be moved angularly about an axis, and transversely along said axis and means for moving said holder in a line transverse to said axis.

1,385,698. SUSPENSION-CLAMP. WALTER S. MAYER, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 22, 1919. Serial No. 325,588. 7 Claims. (Cl. 191—43.)



4. In a clamp, the combination with a stud, of a nut screwed on said stud, a sleeve screwed on said nut, and a pair of jaws fulcrumed in said sleeve on opposite sides of said nut, said nut and jaws having coacting means whereby the latter are rocked oppositely.

1,385,699. LENS-HOLDER. WALTER S. MAYER, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed June 26, 1920. Serial No. 391,866. 5 Claims. (Cl. 240—41.)

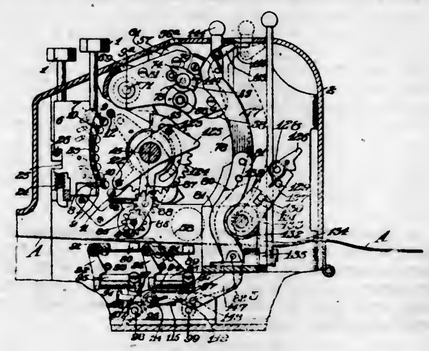


1. A lens holder comprising a frame having inwardly extending bearings, in combination with an internally channeled resilient ring having a wall of its channel supported by one of said bearings, and its part exterior to said channel clamped to the other of said bearings.

1,385,700. CALCULATING-MACHINE. ARTHUR S. MILINOWSKI, Brockport, N. Y. Filed Aug. 9, 1917. Serial No. 185,356. 25 Claims. (Cl. 235—60.)

1. In a calculating machine, the combination of a plurality of key controlled actuating devices, calculating devices, means for selectively placing any desired ones of said actuating devices and calculating devices into cooperative relation, and means for moving said calculating devices when in engagement with said actuating devices to cause them to perform calculations, the actuating devices remaining stationary during such calculations.

5. In a calculating machine, the combination with a plurality of key controlled actuating devices which are shiftable to any selected position, of a movable frame, calculating mechanism carried on the frame including transfer members which are engaged by the actuating devices during movement of the frame, item printing wheels controlled by the actuating devices, and total printing wheels controlled by said transfer members.

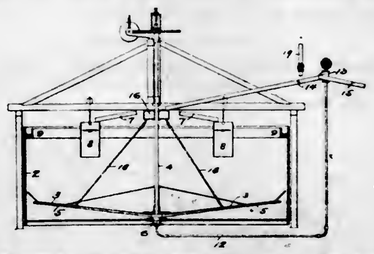


9. In a calculating machine, the combination of a traveling support, a plurality of key controlled actuating devices mounted on said support, item printing devices also mounted on said support and controlled by said actuating devices, transfer devices also controlled by the actuating devices, total printing devices controlled by the transfer members, and total indicating devices operated by said transfer devices.

12. In a calculating machine, the combination with a plurality of key controlled actuating devices, of a traveling support on which the actuating devices are shiftable, an oscillatory frame, calculating mechanism carried on the frame including transfer gears arranged on a holder which is movable on the frame, and means coöperating with said holder and acting to retain the gears in engagement with the actuating devices during movement of the frame in one direction and to disengage the gears from the actuating devices during movement of the frame in the opposite direction.

22. In a calculating machine, the combination with a series of actuating devices movable into any selected numerical position, of a locking portion carried on each actuating device, a universal locking stop normally holding the actuating device against movement, and means for releasing the actuating device to permit movement, the locking portion of any actuating device operating to move the locking stop out of the path of all the locking portions during the return of said actuating device to normal position.

1,385,701. PROCESS OF RECOVERING VALUABLE SOLUTION FROM MIXTURES. LOUIS D. MILLS, Redwood City, Calif. Filed Mar. 10, 1919. Serial No. 281,616. 11 Claims. (Cl. 23—31.)



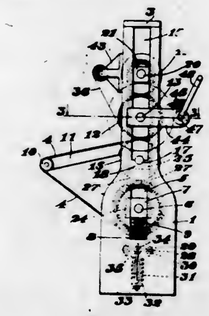
1. The process of replacing solution in a pulp with other liquid which consists in allowing the pulp to settle to form a thick pulp at the bottom, drawing off the thick pulp from the bottom, adding washing liquid to a portion of the withdrawn thick pulp and flowing it back into the settled thick pulp.

1,385,702. SETTING FOR PRECIOUS STONES. THOMAS MOUNTFORD, Newark, N. J. Filed Mar. 19, 1919. Serial No. 283,672. 2 Claims. (Cl. 63—26.)



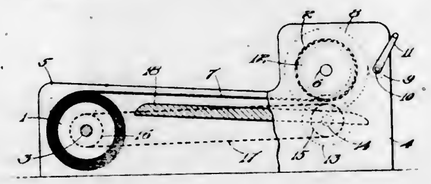
1. In a setting for precious stones, the combination of a bezel having a polygonal shape and recesses in its upper edge, situated at the apices of the angles, and a plurality of clamps secured together in spaced relation such that their lower ends will fit within said recesses, said lower ends being fitted within said recesses.

1,385,703. MANGLE. JAMES NORRIE, Quincy, Mass. Filed Jan. 4, 1921. Serial No. 434,953. 10 Claims. (Cl. 68—13.)



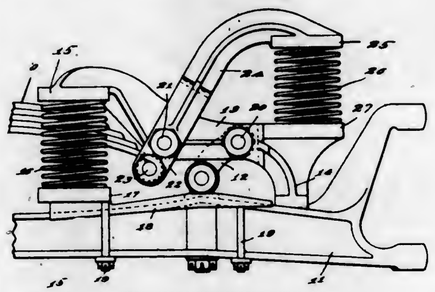
1. A mangle having two rotary rolls in frictional engagement with each other between which the article to be mangled is fed, a carrier web of sheet material on which the said article is carried during the mangling operation, said web having one end connected with one of said rolls in such manner that when the said roll is rotated in one direction the web and superposed article will be wound around the roll, and when after the winding in one direction the roll is rotated in the reverse direction, the said web and article will also be fed in the reverse direction, and a rotary takeup roll with which the other end of the web is connected and which gives out the web as the said first web-carrying roll winds up the web and which takes up the web as the said first web-carrying roll unwinds the web.

1,385,704. MANGLE. JAMES NORRIE, Quincy, Mass. Filed Feb. 28, 1921. Serial No. 448,327. 7 Claims. (Cl. 68—13.)



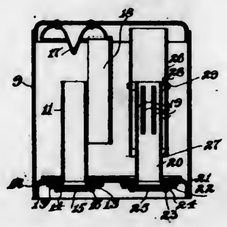
1. A mangle having a feed roll and a takeup roll parallel with each other, one in advance of the other, a carrier web of sheet material which pays off from the feed roll to the takeup roll, and carries the article to be mangled, winding it up with the web around the takeup roll, and means for positively rotating the two rolls simultaneously.

1,385,705. SHOCK-ABSORBER. LOUIE H. OBERREICH, Indianapolis, Ind. Filed July 18, 1919. Serial No. 311,864. 8 Claims. (Cl. 267—17.)



7. In combination with the main spring and axle of an automobile, a lever pivotally supported from said axle, a link connecting said lever to the main spring, a spring acting on said lever resiliently opposing the lever movement which occurs when the main spring and axle are pushed together, a stop for limiting the movement of said lever in the opposite direction, and a spring acting on said link to oppose the link turning which occurs upon rebound.

1,385,706. AIR-LIFT SYSTEM. JOHN OLIPHANT, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 7, 1916. Serial No. 124,400. 23 Claims. (Cl. 103—84.)

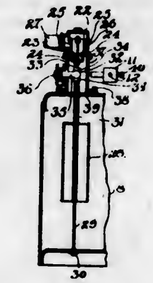


1. In an air-lift booster, a booster casing, inlet and discharge pipes therein, a vertically movable rod therein, guiding means therefor in said casing, a valve casing, a vent-valve on said rod guided by said valve casing, and a single float carried on said rod.

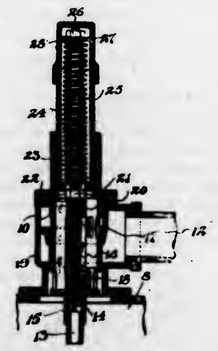
1,385,707. AIR-LIFT SYSTEM. JOHN OLIPHANT, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Oct. 10, 1916. Serial No. 124,892. 18 Claims. (Cl. 103—84.)

2. In combination, a booster casing, inlet and discharge pipes therein, means for maintaining a constant liquid level in said casing including a vent valve on said casing and a float connected to said vent valve, and means operable from the exterior of said casing for varying at will the buoyancy of said float.

9. In an air-lift booster, a booster casing, an upstanding pressure fluid and liquid pipe therein, a concentrically disposed pressure fluid pipe, an umbrella top disposed concentrically about said pressure fluid pipe and adjacent the mouth of said first mentioned pipe, and a water discharge pipe in said casing oppositely disposed with respect to said pressure fluid and liquid pipe and having its receiving end disposed adjacent one end of said casing.
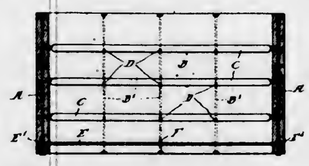


1,385,708. AIR-LIFT BOOSTER. JOHN OLIPHANT, Chicago, Ill., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 6, 1916. Serial No. 135,386. 23 Claims. (Cl. 103—84.)



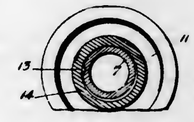
1. In an air lift system, in combination, a booster having a pressure regulating means responsive to the effects of pressure variations in the booster, and a resilient means for controlling the operation of said first named means.

1,385,709. BOTTOM FOR BOTTLE-CRATES. LEE H. PAYNE, Chicago, Ill. Filed Jan. 31, 1921. Serial No. 441,138. 2 Claims. (Cl. 217—22.)



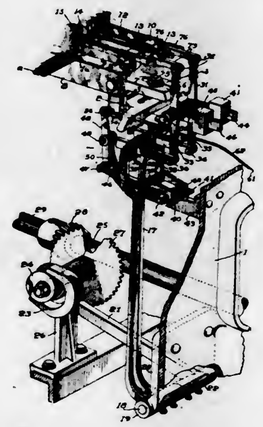
1. In a bottle crate composed of pairs of opposed confining walls and partitions subdividing its inner space into compartments, a bottom structure providing bottoms for the respective compartments and comprising flexible flat metal load-bearing strips extending between and anchored to the opposed walls of one pair, with their lesser transverse dimension and flat faces presented in the direction of loading, and an intermediate sustaining bridge comprising a flat metal strip extending between and anchored to the opposed walls of the other pair, with its greater transverse dimension presented parallel to the direction of loading and having therethrough, in line with and substantially conforming to the section of the load-bearing strips, slots that maintain the spacing of said load-bearing strips and sustain them intermediately of their anchored ends, with freedom of rocking in the slots.

1,385,710. VEHICLE-WHEEL. HENRI DANIEL REY, Avarua, Island of Raratonga, New Zealand. Filed Feb. 5, 1920. Serial No. 356,538. 4 Claims. (Cl. 301—74.)



1. A wheel of the character specified, comprising a hub and a rim, and spokes between the hub and the rim, said spokes consisting of series oppositely arranged, the members of one series crossing those of the other between the hub and the rim, the rim and the hub having sockets for engagement by the ends of the spokes, the sockets at one end of the hub being carried by a collar feathered on the hub, and resilient means between the collar and the hub, and acting normally to force the collar outwardly.

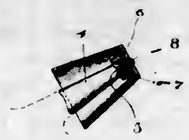
1,385,711. WARP STOP-MOTION FOR LOOMS. ALONZO E. RHOADES, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 15, 1920. Serial No. 417,186. 12 Claims. (Cl. 139—92.)



1. In a warp stop motion for looms, the combination of a fixed and longitudinally movable toothed bar, a series of warp detectors which are hung upon and normally supported in raised position by the warp threads and constructed and arranged to lock the toothed bars together, an actuator, a rocker mounted on the actuator for movement therewith and for rocking movement thereon, connections between the rocker and movable toothed bar, means normally acting to hold the rocker from rocking movement while being moved with the actuator and permitting such rocking movement when the toothed bar is held from longitudinal movement by a warp detector dropped by a slack

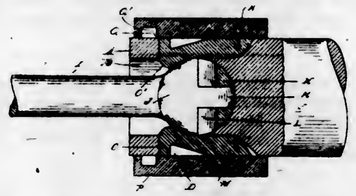
or broken warp thread, and means for stopping the loom when the rocker partakes of its rocking movement during movement of the actuator.

1,385,712. SAFETY OIL-CAN. JAMES DAVID RICHEY, Corpus Christi, Tex. Filed Sept. 8, 1920. Serial No. 409,013. 1 Claim. (Cl. 220—39.)



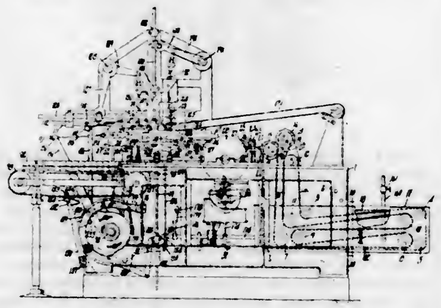
The combination with a receptacle having a discharge spout, of a frusto-conical one piece liquid container of a diameter approximately three times the diameter of the spout whereby the major portion of the spout is freely received within and protected by said container, and a cap threaded on said spout and having a top rigidly secured within the container to the bottom wall of the same, said container being exteriorly smooth and of a length to permit the same to be securely gripped when applying or removing said cap.

1,385,713. UNIVERSAL JOINT. DAVID ROBINSON, Jr., Detroit, Mich. Filed Mar. 26, 1920. Serial No. 369,133. 8 Claims. (Cl. 64—91.)



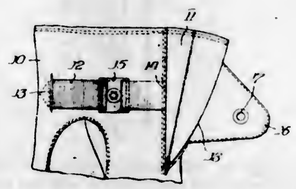
1. The combination with a revoluble member having an axial recess in one end thereof and a transverse cylindrical recess intersecting said axial recess, of a member formed of one piece having cylindrical portions engaging said transverse cylindrical recess and having a bearing in one side thereof concentric with an axis transverse to that of said cylindrical recess, and a second revoluble member insertible within said axial recess into engagement with the bearing in said cylindrical member.

1,385,714. CAN-LABELING MACHINE. GEORGE A. ROBINSON, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a Corporation of Maine. Filed Sept. 25, 1919. Serial No. 326,371. 16 Claims. (Cl. 216—7.)



15. In a labeling machine, means for moistening and pasting a label, means for moving a label through the moistening and pasting instrumentalities to a position adjacent where it is adapted to be applied to the package, means for moving the label in the same plane with its former movement in a direction at right angles to its former path of movement, means for causing the label when moved laterally to be alined in a predetermined position, and means for applying the label to the package.

1,385,715. GLOVE. HUGH ROSS, Sheboygan, Wis. Filed Oct. 15, 1919. Serial No. 330,771. 4 Claims. (Cl. 2—9.)

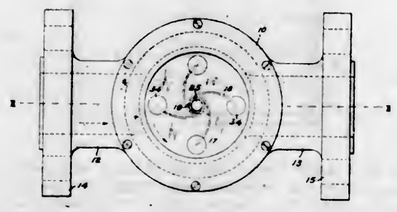


1. A glove including a body portion, a flexible gore set into said body portion at the wrist, a strap anchored at both ends to the body portion at the wrist, a fastening member adjustable on said strap, and a tab secured to the body portion adjacent one side of the gore and carrying a fastening member to coöperate with said other fastening member for fastening the glove snugly around the wrist.

1,385,716. PROCESS FOR TREATING CLAY. JOHN H. RYAN, Kalamazoo, Mich., assignor to Duncan R. Seaman, Chicago, Ill. Filed Apr. 7, 1921. Serial No. 459,365. 14 Claims. (Cl. 252.)

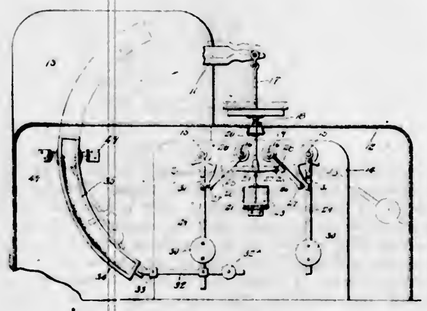
1. The process of treating clay consisting first, in breaking the same into small lumps and then drying the same in the presence of heat for the purpose of a preliminary oxidization, mixing the same with a surplus of water to settle out any grit, adding thereto ammonia to neutralize any acid in the clay, introducing the pulp into a pebble mill and acting upon the thick pulp by said pebble mill to grind the same and to thoroughly admix the ammonia therewith, next adding a bleaching agent, of one-half of one per cent. of the water content, and continuing the action of the pebble mill for a period of substantially two hours to fully admix the chemical therewith and secure its action, thereafter diluting the pulp to draw the same from the mill and subjecting the same to an agitator to entirely dissolve and remove the chemical, settling and decanting the water, withdrawing the pulp and filtering the same, and subjecting the thick pulp to a drying action to finish the product, all substantially as described for the purpose specified.

1,385,717. FLOW-INDICATOR. FRED V. SAMS, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 2, 1920. Serial No. 349,656. 9 Claims. (Cl. 116—117.)



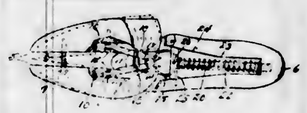
1. A flow indicator, comprising a casing having a flow opening therethrough and a transparent window affording a view of the interior of the casing, and an indicating element within said casing comprising a rotary motor in the path of flow through the casing and having a plurality of vanes, at least one of said vanes being provided with a reduced extension having an indicating portion movable in close proximity to said transparent window to indicate the flow of fluid through said casing.

1,385,718. WEIGHT-INDICATOR FOR SCALES. HENRY C. SCHAPER, St. Louis, Mo., assignor to The General Automatic Scale Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 4, 1916. Serial No. 129,604. 4 Claims. (Cl. 265—62.)



1. The combination in a weighing scale having a beam, of a member depending from the free end of the beam, a pair of pivotally mounted levers adapted to be actuated by said depending member, pendulum weighted arms adapted to be actuated by said levers, a transparent member provided with a graduated scale, which member is carried by one of the pendulum weighted arms, and means for projecting the marks of the graduated scale onto a screen in enlarged form.

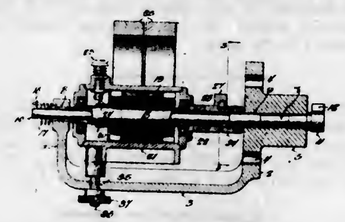
1,385,719. BOOT OR SHOE FORMER. ARTHUR SCHOSHUSEN, Pittsburg, Kans. Filed Aug. 13, 1919. Serial No. 317,388. 5 Claims. (Cl. 12—128.)



1. A shoe form comprising a sectional toe portion and a heel portion, the sections of said toe portion being separately and independently movable and both laterally and angularly adjustable to fit the toe portion of the shoe, and means connecting said toe and heel portions of the form including means for automatically and yieldingly separating said toe and heel portions while simultaneously expanding said toe sections.

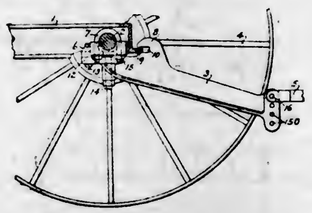
1,385,720. MAGNETO. FRANK H. SCHRYER, Wauwatosa, Wis. Filed Sept. 25, 1919. Serial No. 326,231. 4 Claims. (Cl. 123—149.)

1. In an electric generator, a frame, a rock shaft mounted in the frame, a field element, a conductor carrying element loosely mounted on said shaft, means for oscillating said conductor carrying element, a stationary electrode, a movable electrode carried by the shaft and normally engaged with the stationary electrode, coöperating clutch members on the shaft and conductor carrying



element, and a spring urging said shaft longitudinally and revolubly in one direction.

1,385,721. DRAWBAR. CHARLES EDWIN SEARCH, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Apr. 18, 1917. Serial No. 163,305. 4 Claims. (Cl. 213—67.)



1. In combination, suspension means comprising a frame having an elongated horizontal flange and a cylindrical element extending parallel to said flange, and a draw-bar embracing said cylindrical element and adjustably attachable thereto at different portions of its length, said draw-bar having a portion extending in close proximity above and below said flange and said flange serving to prevent vertical displacement of said draw-bar about said element.

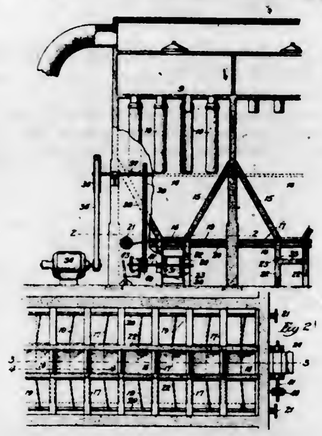
1,385,722. NECK-SHAVING PATTERN OR GUIDE. WILLIAM T. SESSOMS, Chicago, Ill. Filed Sept. 3, 1920. Serial No. 408,051. 4 Claims. (Cl. 132—45.)



1. A neck shaving guide comprising a curved, flexible strip having a row of openings near each end, said open-

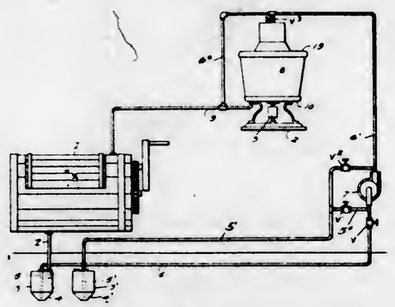
ings being spaced from one another at equal distances, and ear attaching members each having a pair of projections adapted to enter any of a plurality of pairs of openings for holding the ear attaching member rigidly with respect to the strip.

1,385,723. SMELTING MINERALS. FRANK W. SMITH, Chicago, Ill., assignor of one-fourth to John J. Glasheen, one-fourth to Richard J. Snellberger, and one-fourth to Wilbert J. Lewis, Chicago, Ill. Filed Aug. 15, 1919. Serial No. 317,653. 3 Claims. (Cl. 266—17.)



1. That improvement in smelting minerals which consists in filtering the gases from a blast-furnace, discharging the fume into a chamber, burning the fume in the chamber, discharging the burnt fume from the chamber before it has been cooled sufficiently to be handled by workmen and mechanically conveying it from beneath the chamber before it has so cooled, so that the filtering of the gases may be continued without waiting for the fume to be so cooled.

1,385,724. DRY-CLEANING SYSTEM. PAUL F. SMITH and JAMES A. LUKE, Salt Lake City, Utah. Filed June 12, 1920. Serial No. 388,497. 3 Claims. (Cl. 8—8.)



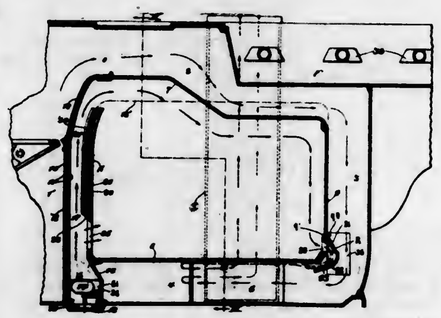
1. A closed dry cleaning system adapted to continuously circulate the cleansing liquid comprising in combination a dry cleaning machine, a receiving tank and a drain pipe from said machine to the tank for the dirt laden cleansing fluid, a pipe line from the tank and a pump in said line, a filtering device connected to the pump, and a supply pipe from said filter to the dry cleaning machine.

1,385,725. PANE-FASTENER. CHARLES J. SOLI, Racine, Wis. Filed Aug. 8, 1919. Serial No. 316,150. 1 Claim. (Cl. 20—56.4.)



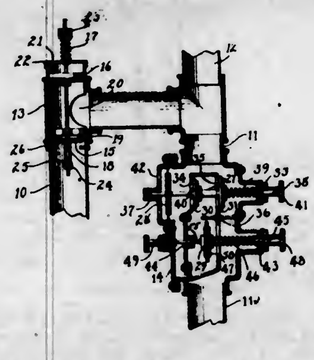
The combination of a frame having certain of its rails rabbeted to form shoulders facing in one direction and another of its rails rabbeted to form a shoulder facing in the opposite direction, said last named rail having a covering strip of sheet metal comprising a channel portion seated in said rabbet, the metal at one edge of the channel being extended to cover the shoulder formed by said rabbet, the metal at the other edge of the channel being bent upon itself to form a wall of double thickness for that side of the channel and being bent outwardly at the base of the wall, and a lip on the outer edge of said strip extending into the side of said rail.

1,385,726. COMBINED GAS AND COAL STOVE. ADOLPH A. SPECHT, Quincy, Ill., assignor to Gem City Stove Manufacturing Company, Quincy, Ill., a Corporation of Illinois. Filed Nov. 11, 1918. Serial No. 261,980. 4 Claims. (Cl. 126—36.)



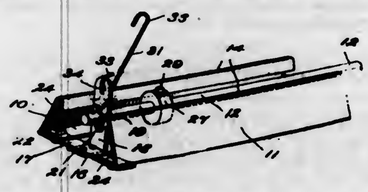
1. A combined gas and coal stove having a fire pot, an oven, a bottom flue under the bottom of the oven communicating with said fire pot, a vertical flue at one side of the oven, the upper corner of the oven at the top of said vertical flue being porvided with a main inlet for heating fluid, an outlet for the heating fluid being formed at the lower corner of the oven diagonally opposite to said main inlet, said bottom flue being in communication with said outlet, a burner compartment at the lower end of said vertical flue, a burner in said burner compartment, said burner being lower than the adjacent lower corner of the oven, the side of the oven adjacent to said vertical flue being provided with an auxiliary heating fluid inlet adjacent to the bottom of the oven, said vertical flue being extended from said burner compartment to the main inlet at said upper corner of the oven and said auxiliary inlet being in free communication with said vertical flue at a point above the burner, so as to provide for the admission into the oven of a portion of the heating fluid rising in the said vertical flue, and said vertical flue being contracted above said auxiliary inlet to retard the fluid flowing to said main inlet.

1,385,727. REGULATING MECHANISM FOR PNEUMATIC CARRIER SYSTEMS. JOSEPH J. STOETZEL, Chicago, Ill., assignor of one-fourth to Paul F. Clausen and one-fourth to Frank Novak, Chicago, Ill. Filed Feb. 26, 1920. Serial No. 361,506. 16 Claims. (Cl. 243—4.)



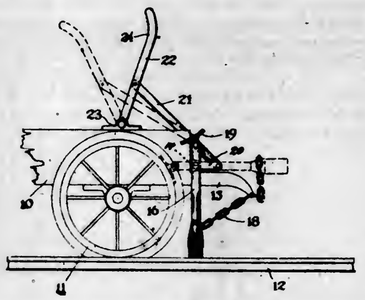
1. In a regulator for pneumatic carrier systems, the combination of separate pipes providing communication between a common header leading to the system and separate sources of power, valve mechanism located in each of said pipes between said header and the respective source of power and adapted for controlling such communication, separate means located within said pipes and directly connected to the respective valve mechanisms and independently actuatable automatically by variations in the system pressure for shifting the respective valve mechanisms, and other means for regulating said first-mentioned means, all being arranged so that the power required for the normal operation of the system is obtained from one source and power for abnormal operation of the system is obtained from the other source.

1,385,728. BELT-CONTROLLER. WILLIAM E. STROMBERG and EDWARD H. SCHMICKING, New York, N. Y.; said Stromberg assignor to said Schmicking. Filed Mar. 26, 1920. Serial No. 369,138. 12 Claims. (Cl. 74—51.)



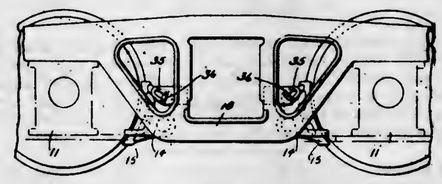
4. In combination, a belt or web and a controller, and tie-pieces at each end of said controller for suspending the same, said tie-pieces having their points of connection to said controller farther apart than their points of connection at their other ends, whereby the ends of said controller will move in opposite directions with respect to the plane of the belt, when it is moved to one side or the other by said belt, said controller comprising a guide having projections thereon adapted to depress the portions of the belt in the vicinity thereof.

1,385,729. SAFETY BRUSH-BRAKE FOR RAILROAD MOTOR-CARS. SHERIDAN C. TANNER, Relay, Md. Filed Apr. 10, 1920. Serial No. 372,840. 5 Claims. (Cl. 188—33.)



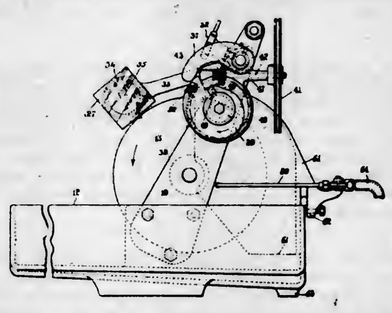
1. The combination with the wheels, of vertically swinging bars forwardly thereof, having track clearing means at their lower ends, means for swinging said arms to horizontal positions, and wheel engaging brake members carried by the opposite ends of the arms, and movable to engage the wheels in the horizontal positions of the arms.

1,385,730. BRAKE-BEAM SUPPORT. JOHN J. TATUM, Baltimore, Md. Filed Mar. 8, 1919. Serial No. 281,487. 9 Claims. (Cl. 188—212.)



1. The combination with a car truck frame and the brake beams associated therewith, of brackets projecting inwardly from the wheel pieces of the truck frame, which brackets are provided with openings adapted to receive brake heads, said brackets being provided with inclined slots, and bearing members carried by said brake heads and loosely arranged in said slots whereby the brake heads are free to move toward the wheels when the brakes are applied and to move away from the wheels by gravity when the brakes are released.

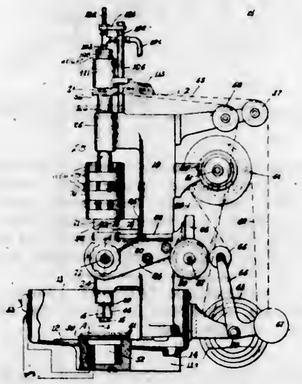
1,385,731. APPARATUS FOR SAWING GLASS. WILLIAM TAYLOR, Leicester, England. Filed Apr. 24, 1916. Serial No. 93,270. 43 Claims. (Cl. 125—13.)



1. Apparatus for sawing glass, which comprises in combination a saw, a work holder for supporting the glass

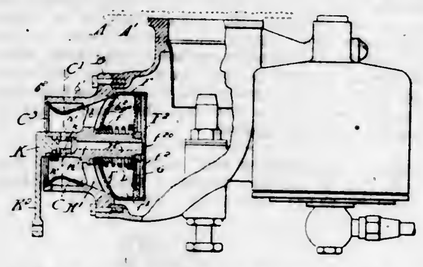
to be sawed, means by which one of said members tends to move to cause a relative approaching movement between the glass and the saw with a force sufficient to effect the approaching movement at the desired rate when the saw is in proper working condition but not sufficient to damage the saw or the glass when the saw is blunt, and means for limiting such approaching movement to a predetermined rate slightly less than that which would normally overload the saw.

1,385,732. GLASS-CUTTING APPARATUS. WILLIAM TAYLOR, Leicester, England. Filed Apr. 24, 1916. Serial No. 93,271. 29 Claims. (Cl. 125—20.)



25. Apparatus for sawing, comprising a rotary spindle, a quill having bearings in which the spindle is mounted, a saw carried by the spindle, the quill and spindle being adapted to move downward to feed the saw through the material being cut, and means coacting with said spindle and quill for damping the vibrations of said spindle.

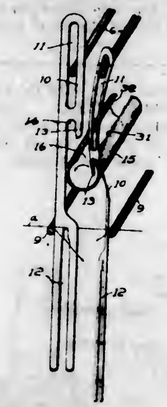
1,385,733. MIXTURE-GOVERNING DEVICE FOR INTERNAL-COMBUSTION ENGINES. PERCIVAL S. TICE, Chicago, Ill. Filed July 17, 1919. Serial No. 311,484. 4 Claims. (Cl. 137—153.)



2. In the construction defined in claim 1, the chamber being formed in the body of the valve, the piston-wise operating member being fixed in position; whereby the relative piston-wise operation is effected by movement of the chamber on said fixed member; a stem rigid with the intake passage wall on which the valve moves, and which carries said fixed, piston-wise operating member, the conduit for the venturi throat of the chamber being formed in said stem.

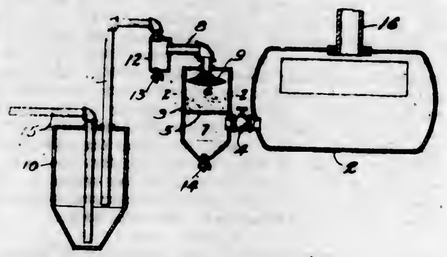
1,385,734. WARP STOP-MOTION FOR LOOMS. EUGENE L. TINKHAM, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Jan. 15, 1921. Serial No. 437,581. 9 Claims. (Cl. 139—92.)

1. In a warp stop motion for looms, the combination of a plurality of drop wires arranged in parallel rows and normally supported by the warp thread during weaving, a detector positioned between the rows of drop wires and cooperating with the drop wires of either row and having a detecting movement, each of the said drop wires



being provided with a detector embracing portion which embraces the detector and arrests its detecting movement when a drop wire of either row fails to be supported by a warp thread.
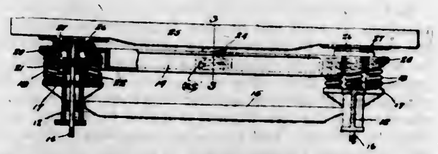
1,385,735. PROCESS OF AND APPARATUS FOR SUPPLYING SOAP. ABRAHAM TRAUBE, Brooklyn, N. Y. Filed Oct. 18, 1919. Serial No. 331,611. 6 Claims. (Cl. 87—16.)



1. The process of forming a soap solution which consists in conducting a solution of a soap forming acid in a non-aqueous solvent into contact with an alkali while substantially excluding water.

1,385,736. [WITHDRAWN.]

1,385,737. CAR-TRUCK. CHARLES T. WESTLAKE, St. Louis, Mo., assignor to Commonwealth Steel Company, St. Louis, Mo., a Corporation of New Jersey. Filed July 25, 1919. Serial No. 313,288. 12 Claims. (Cl. 105—197.)



1. In a car truck, the combination with a pair of side frames, of a bolster pivotally connected to said side frames,

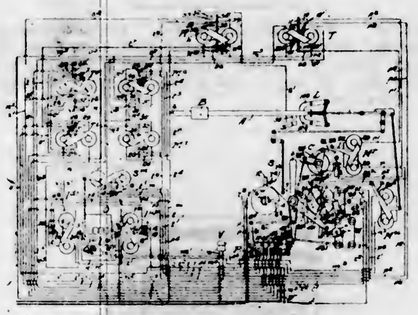
yielding pressure means interposed between the side frames and said bolster and yielding pressure means bearing on top of said bolster.

1,385,738. WAVE-MOTOR. ALEXANDER WHITTLE, Kearney, N. J. Filed Nov. 12, 1920. Serial No. 423,568. 3 Claims. (Cl. 103—67.)



2. A wave motor comprising a pump, a pump rod, an impact frame, means for adjusting the impact frame along the pump rod and locking it in adjusted position, said means including an electric motor operable from the shore.

1,385,739. WEIGHING-MACHINE. ARTHUR A. ADAMS, Brookline, and FRANK A. EMERY, Ashmont, Mass., assignors, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass., a Corporation of Massachusetts. Filed Jan. 31, 1910. Serial No. 540,937. 107 Claims. (Cl. 265—7.)

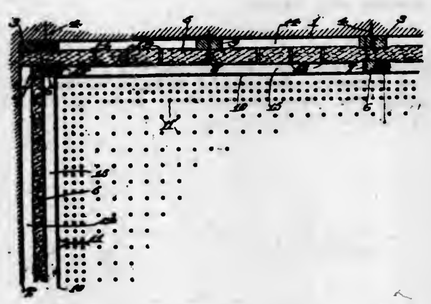


1. A machine of the class described comprising in combination, a beam, a poise thereon, a weight indicator, actuating means for said poise and indicator, recording means, key controlled starting means for said actuating means, locking means for said starting means and means including electric connections whereby said key may not be removed before the beam has tilted and the weight has been recorded.

1,385,740. ELECTRICAL HEATING ELEMENT OF ALLOY-STEEL. PERCY A. E. ARMSTRONG, Loudonville, N. Y. Filed Dec. 2, 1919. Serial No. 341,967. 6 Claims. (Cl. 75—1.)

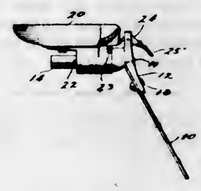
1. An electrical heating element made of alloy steel containing chromium about 20%, silicon about 2%, cobalt about 2%, carbon under about 1.5%, and the principal part of the remainder iron.

1,385,741. SOUND-DEADENER FOR BUILDING STRUCTURES. JAMES W. DILLON, Mount Vernon, N. Y. Filed Feb. 14, 1920. Serial No. 358,764. 8 Claims. (Cl. 20—4.)



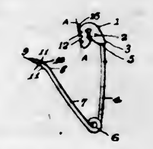
1. In a building structure, the combination of a wall or ceiling surface of a room, an exposed perforated fabric membrane, and means for supporting said membrane in spaced relation and adjacent to said surface, whereby sound within said room is deadened.

1,385,742. ADJUSTABLE SEAT. JOHN PIERCE EAKIN, Jollytown, Pa. Filed Apr. 9, 1921. Serial No. 459,807. 1 Claim. (Cl. 155—121.)

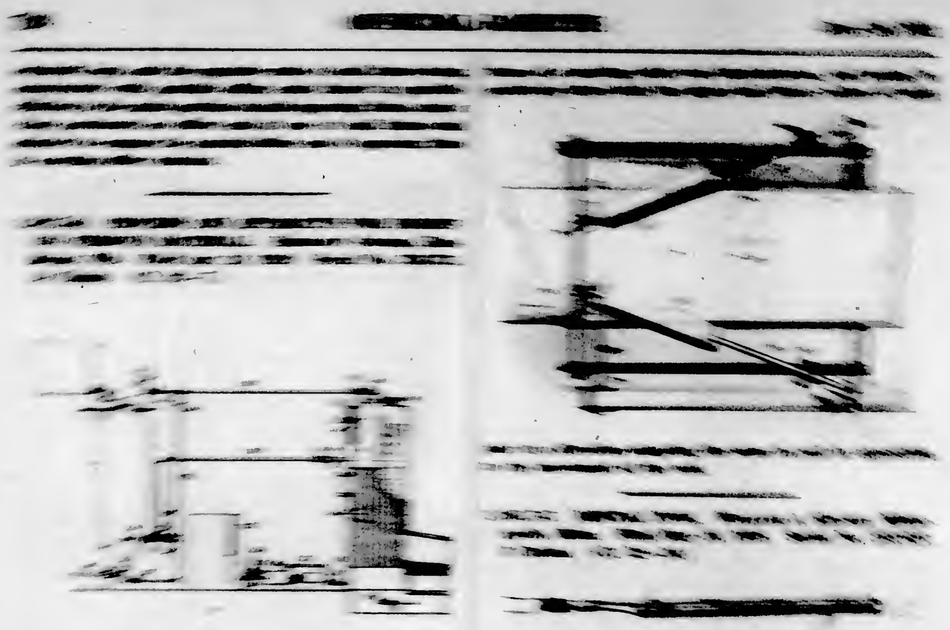


A seat mounting of the character described, comprising a stem having formed on its one end an enlargement with a downwardly extending portion adapted to be secured to a seat support, a sleeve journaled upon said stem, said sleeve having a plate extending from its one end adapted to support a seat, an upwardly extending member formed upon the enlarged portion of said stem, a latch member pivoted to said upwardly extending member and adapted to be brought into engagement with notches formed in the adjacent end of the sleeve whereby said sleeve may be adjustably held against turning movement upon said stem, and a spring associated with said latch and adapted for holding said latch in engagement with one of said notches.

1,385,743. SAFETY-PIN. CHARLES O. ELLERT, Brooklyn, N. Y. Filed Apr. 12, 1920. Serial No. 373,223. 4 Claims. (Cl. 24—161.)



2. A safety pin of the class described having opposing parallel limbs connected at one of their ends by a spring

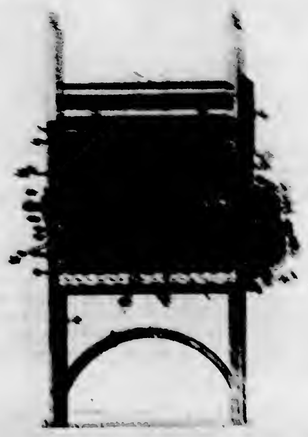




2. A [illegible] washer consisting of two locking plates, an expansible post comprising telescopic sections, one of which is seated in one of said locking plates, a set-screw for holding said post-sections in position, on said plate, a locking bar on the other of said locking plates for engaging a head on the other of said post sections, said two post sections being connected together by a rod having threaded engagement with one of said post-sections, and a rotatable engagement with the other.

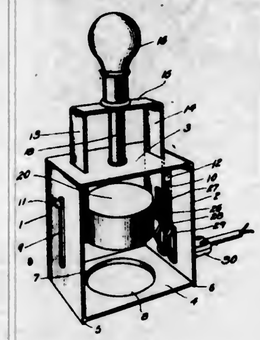
1,385,746. CLOTH-GUIDING DEVICE FOR CLOTH-FINISHING MACHINES. WILLIAM ALFORD HOGAN, Danville, Va. Filed June 24, 1920. Serial No. 391,495. 2 Claims. (Cl. 26—8.)

2. In a device of the character described, divergently disposed laterally spaced and relatively adjustable pairs of upper and lower rollers adapted to receive the side por-



A washing machine, comprising a suitable tub, with end heads carrying water-tight ball bearings; a peripherally corrugated wire mesh clothes cradle mounted in the tub, said cradle having end head-bracing means including integral major bracing means running longitudinally of the cradle and formed with stub axles supported in said bearing, auxiliary bracing means between the major bracing means preventing the wire mesh from sagging; a bearing structure on one head of the tub, and gearing carried by said structure and so operatively associated with the adjacent stub axle to enable the oscillation of the cradle to wash clothes contained thereby when a part of the gearing is in one position, and to continuously rotate the cradle and expel the water from the clothes by centrifugal action when said part is shifted to another position.

1,385,749. SEALING DEVICE. THEODORE C. MUELLER, Topeka, Kans., assignor of one-half to Windom L. Kemper, Topeka, Kans. Filed Jan. 23, 1920. Serial No. 353,468. 9 Claims. (Cl. 120—116.)



8. In a sealing device, a frame having a fusible-wafer receiving opening, a supplemental frame slidable with respect to the first named frame, an electrical heating element carried by the supplemental frame and having a face co-extensive with the opening, means for sliding the frame to bring the heating element into contact with a wafer in the opening, and contacts between the two frames and mounted to complete a circuit when the supplemental frame is moved in one direction and to break the circuit when the supplemental frame is moved in the opposite direction.

1,385,750. MILLING-CUTTER. ROBERT T. POLLOCK, Cambridge, Mass. Filed May 12, 1919. Serial No. 296,371. 1 Claim. (Cl. 29—103.)

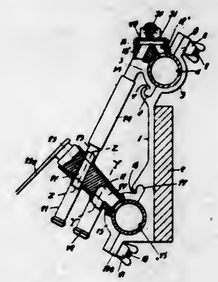


A milling cutter consisting of a head provided with a series of teeth forming front, peripheral and rear cutting edges, each tooth having a flat rake and clearance faces behind the three cutting edges thereof, and the front cutting edges lying in a plane to which the axis of the head is perpendicular, said head having grooves parallel to the front cutting edges of the alternate teeth and transecting the front cutting edges of the intervening teeth, subsantially as described.

1,385,751. MILKING-MACHINE INSTALLATION. JOHN SIME READ, Eltham, Taranaki, New Zealand. Filed Aug. 26, 1920. Serial No. 406,182. 5 Claims. (Cl. 31—99.)

1. In milking machine installations, a combination pipe line supporting bracket, pulsator, and milk and pulsator connection controlling tap.

2. In milking machine installations, a vertical back plate provided with pipe line clamping means and having a pulsator appliance constructed to work on its upper end; and a tap mounted upon said clamping means to control milk and pulsator connections of the teat cups.

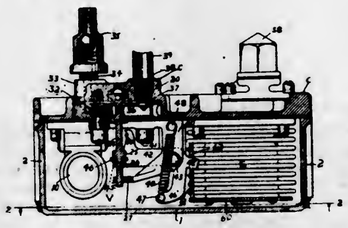


3. In milking machine installations, a vertical back plate provided with pipe line clamping means and having a pulsator appliance working on its upper end; a tap casing on said clamping means in communication with the milk pipe; a pulsator connection communicating with said casing, adapted to be put in communication with the outer spaces of teat cups; a milk connection adapted to be put in communication with the inner spaces of teat cups; and a plug constructed and working in said casing to control said connections.

4. In milking machine installations, a vertical back plate having a pulsator appliance working on its upper end; pipe line supporting means on said plate, a clamp fitting said supporting means; a tap casing on said clamp in communication with the milk pipe; a connection between said casing and the pulsator; a pulsator connection communicating with said casing and adapted to be put in communication with the outer spaces of teat cups; a milk connection from said tap casing adapted to be put in communication with the inner spaces of teat cups; and a plug operating in said casing to control said connections.

5. In milking machine installations, a vertical back plate having a pulsator appliance working on its upper end; pipe line supporting means on said plate; a clamp fitting said supporting means; a tap casing on said clamp, in communication with the milk pipe; a connection between said pulsator and casing; a pulsator connection communicating with said casing and adapted to be kept in communication with the outer spaces of teat cups; a milk connection from said casing to be put in communication with the inner spaces of teat cups; and a plug containing an elongated port adapted to open the teat cup milk connection, and a port adapted to open the teat cups pulsator connection.

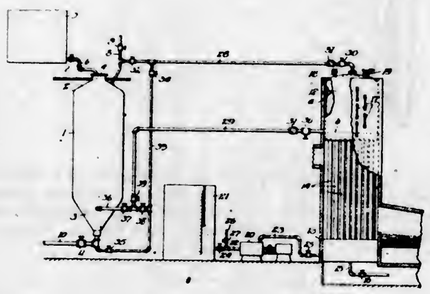
1,385,752. PNEUMATIC PUMP. DONALD H. REEVES, Dayton, Ohio. Filed June 21, 1919. Serial No. 305,720. 6 Claims. (Cl. 103—8.)



1. In a pneumatic pump, two pump chambers, a compressed air supply, a vent for said chambers, a compressed

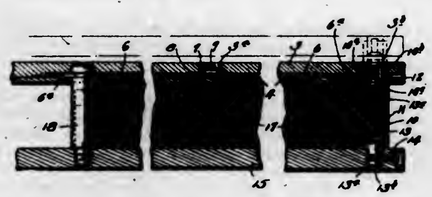
actuated loop, and the opposite ends of said limbs being constructed with parallel offset ends flared in parallel relation to the main portion of said opposing limbs, and a clasp positioned on offset end of one of said limbs and adapted to engage the pointed offset end of opposing limb in coacting offset relation.

1,385,744. PROCESS AND APPARATUS FOR DIGESTING FIBROUS MATERIAL. HERMANN GEVERS, Kaukauna, Wis. Filed Apr. 24, 1920. Serial No. 376,371. 14 Claims. (Cl. 92—7.)



1. The process of digesting fibrous material for the manufacture of cellulose, which consists in preheating digestion liquor, introducing the same into a digester charged with fresh material, and continuing the digestion operation with steam developed by preheating the liquor for a subsequent operation.

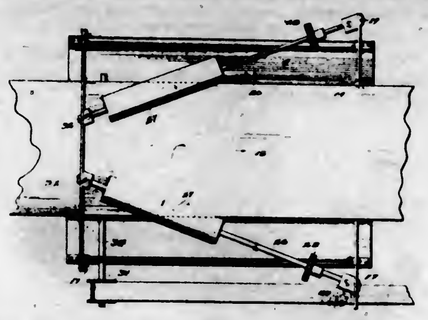
1,385,745. LOOSE-LEAF BINDER. CORBON L. HARVEY, St. Louis, Mo. Filed July 19, 1920. Serial No. 397,412. 3 Claims. (Cl. 129—13.)



2. A loose leaf binder consisting of two backing plates, an extensible post comprising telescopic sections, one of which is seated in one of said backing plates, a set-screw for holding said post-section in position, on said plate, a locking bar on the other of said backing plates for engaging a head on the other of said post sections, said two-post sections being connected together by a rod having threaded engagement with one of said post-sections, and a rotatable engagement with the other.

1,385,746. CLOTH-GUIDING DEVICE FOR CLOTH-FINISHING MACHINES. WILLIAM ALFORD HOGAN, Danville, Va. Filed June 24, 1920. Serial No. 391,495. 2 Claims. (Cl. 26—8.)

2. In a device of the character described, divergently disposed laterally spaced and relatively adjustable pairs of upper and lower rollers adapted to receive the side portions of a moving cloth web therebetween, and means to positively drive both the upper and lower rollers of each



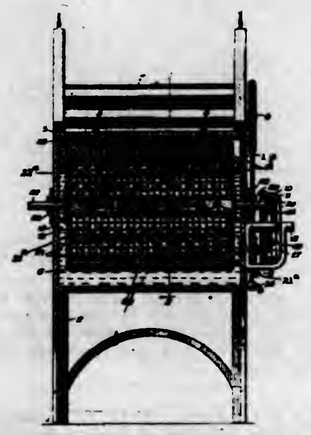
pair in a direction adapting the same to pull in opposition to the movement of the web.

1,385,747. DENTAL TOOL. WILLIAM A. KELSEY, Minneapolis, Minn. Filed May 10, 1918. Serial No. 233,627. 3 Claims. (Cl. 32—10.)



3. A dental tool comprising, in combination, a handle or hand-grip portion and an offset shank projecting from one end thereof, said shank terminating in a cutting edge, said cutting edge and the points of pressure and rest on opposite sides of said hand-grip near the ends thereof being in alinement with each other.

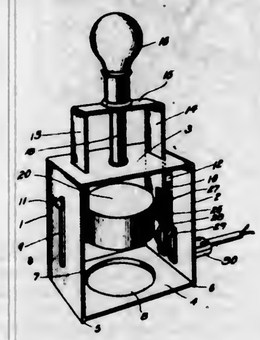
1,385,748. WASHING-MACHINE. FRANK HOWARD MAYER, Denver, Colo. Original application filed Jan. 17, 1920, Serial No. 352,007. Divided and this application filed Apr. 24, 1920. Serial No. 376,271. 1 Claim. (Cl. 68—18.)



A washing machine, comprising a suitable tub, with end heads carrying water-tight ball bearings; a peripherally corrugated wire mesh clothes cradle mounted in the tub, said cradle having end head-bracing means including integral major bracing means running longitudinally of the

cradle and formed with stub axles supported in said bearing, auxiliary bracing means between the major bracing means preventing the wire mesh from sagging; a bearing structure on one head of the tub, and gearing carried by said structure and so operatively associated with the adjacent stub axle to enable the oscillation of the cradle to wash clothes contained thereby when a part of the gearing is in one position, and to continuously rotate the cradle and expel the water from the clothes by centrifugal action when said part is shifted to another position.

1,385,749. SEALING DEVICE. THEODORE C. MUELLER, Topeka, Kans., assignor of one-half to Windom L. Kemper, Topeka, Kans. Filed Jan. 23, 1920. Serial No. 353,468. 9 Claims. (Cl. 120—116.)



8. In a sealing device, a frame having a fusible-wafer receiving opening, a supplemental frame slidable with respect to the first named frame, an electrical heating element carried by the supplemental frame and having a face co-extensive with the opening, means for sliding the frame to bring the heating element into contact with a wafer in the opening, and contacts between the two frames and mounted to complete a circuit when the supplemental frame is moved in one direction and to break the circuit when the supplemental frame is moved in the opposite direction.

1,385,750. MILLING-CUTTER. ROBERT T. POLLOCK, Cambridge, Mass. Filed May 12, 1919. Serial No. 296,371. 1 Claim. (Cl. 29—103.)

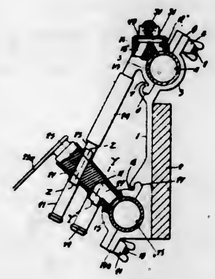


A milling cutter consisting of a head provided with a series of teeth forming front, peripheral and rear cutting edges, each tooth having a flat rake and clearance faces behind the three cutting edges thereof, and the front cutting edges lying in a plane to which the axis of the head is perpendicular, said head having grooves parallel to the front cutting edges of the alternate teeth and transecting the front cutting edges of the intervening teeth, subsantially as described.

1,385,751. MILKING-MACHINE INSTALLATION. JOHN SIME READ, Eltham, Taranaki, New Zealand. Filed Aug. 26, 1920. Serial No. 406,182. 5 Claims. (Cl. 31—99.)

1. In milking machine installations, a combination pipe line supporting bracket, pulsator, and milk and pulsator connection controlling tap.

2. In milking machine installations, a vertical back plate provided with pipe line clamping means and having a pulsator appliance constructed to work on its upper end; and a tap mounted upon said clamping means to control milk and pulsator connections of the teat cups.

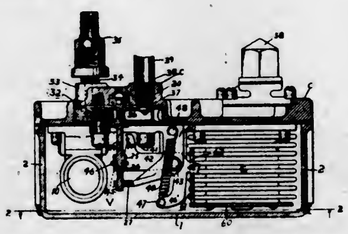


3. In milking machine installations, a vertical back plate provided with pipe line clamping means and having a pulsator appliance working on its upper end; a tap casing on said clamping means in communication with the milk pipe; a pulsator connection communicating with said casing, adapted to be put in communication with the outer spaces of teat cups; a milk connection adapted to be put in communication with the inner spaces of teat cups; and a plug constructed and working in said casing to control said connections.

4. In milking machine installations, a vertical back plate having a pulsator appliance working on its upper end; pipe line supporting means on said plate, a clamp fitting said supporting means; a tap casing on said clamp in communication with the milk pipe; a connection between said casing and the pulsator; a pulsator connection communicating with said casing and adapted to be put in communication with the outer spaces of teat cups; a milk connection from said tap casing adapted to be put in communication with the inner spaces of teat cups; and a plug operating in said casing to control said connections.

5. In milking machine installations, a vertical back plate having a pulsator appliance working on its upper end; pipe line supporting means on said plate; a clamp fitting said supporting means; a tap casing on said clamp, in communication with the milk pipe; a connection between said pulsator and casing; a pulsator connection communicating with said casing and adapted to be kept in communication with the outer spaces of teat cups; a milk connection from said casing to be put in communication with the inner spaces of teat cups; and a plug containing an elongated port adapted to open the teat cup milk connection, and a port adapted to open the teat cups pulsator connection.

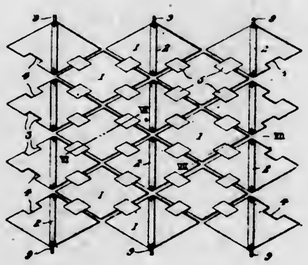
1,385,752. PNEUMATIC PUMP. DONALD H. REEVES, Dayton, Ohio. Filed June 21, 1919. Serial No. 305,720. 6 Claims. (Cl. 103—8.)



1. In a pneumatic pump, two pump chambers, a compressed air supply, a vent for said chambers, a compressed

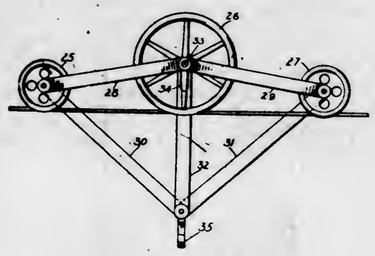
air inlet valve controlling both chambers, a vent valve common to both chambers, and intercommunicating bellows in said chambers operable by the compressed air and adapted to actuate both of said valves, the movement of said valves by the bellows being independent of the pumping action.

1,385,753. TIRE ARMOR AND ANTISKID DEVICE. ALBERT REMAR, Maynard, Ohio. Filed Feb. 24, 1921. Serial No. 447,433. 2 Claims. (Cl. 152—16.)



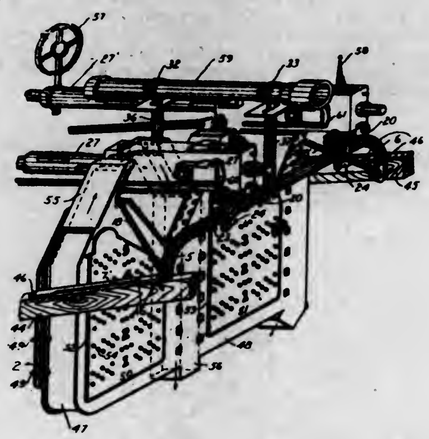
1. A tire armor and anti-skid device comprising a plurality of rhombus-shaped plates transversely curved coincident to the curvature of a tire, with the longitudinal axes of the plates extending circumferentially of the tire ribs extending between the obtuse angles of said plates, hinge connections between adjacent edges of the plates, means for anchoring the plates to a tire, said means including a plurality of V-shaped brackets having the spaced ends thereof connected to the adjacent edges of the laterally positioned plates, and reversely curved hooks carried by the inner ends of said brackets engaging the wheel rim to hold the tire armor in position.

1,385,754. BOGIE OR TROLLEY. HARRY DE COURCY RICHARDS, San Francisco, Calif. Filed Dec. 24, 1919. Serial No. 347,059. 3 Claims. (Cl. 105—150.)



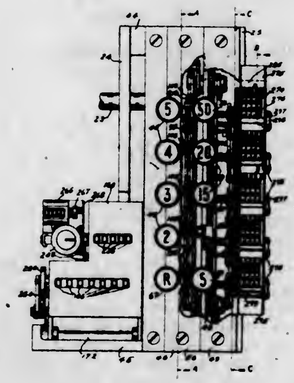
1. For use with an aerial cableway, a trolley comprising three wheels, axles for said wheels, pivoted links for connecting the axles of two of said wheels with the axle of the third wheel, a link depending from the axle of said third wheel and formed with a slot therein for engagement with said axle, load supporting means connected with the depending link, and links pivoted to said depending link and extending to the axles of the two first mentioned wheels.

1,385,755. GUN-MOUNT FOR AIRPLANES. JEAN A. ROCHÉ, Dayton, Ohio. Filed Mar. 10, 1919. Serial No. 281,667. 8 Claims. (Cl. 89—40.)



1. An airplane fixed gun mount, comprising a frame adapted to engage with two longérons of the fuselage, a gun holding means carried by said frame for holding a gun, adjustable means carried by said frame independently of the gun holding means for holding a gun sight.

1,385,756. TICKET PRINTING AND ISSUING MECHANISM. FRANCESCO SKEBL, New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Original application No. 64,067, filed Nov. 29, 1915. Divided and this application filed June 9, 1919. Serial No. 302,763. 9 Claims. (Cl. 235—3.)

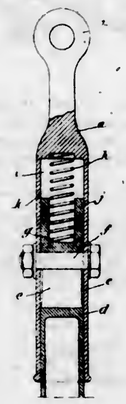


1. In a machine of the class described, the combination of a type carrier, differential mechanism for operating the type carrier, a totalizer, an actuating device for the totalizer and operated by said differential mechanism, a device connecting said actuating mechanism and said differential mechanism, a plurality of keys for controlling said differential mechanism, and a slidable plate operated by one of said keys to disable said connecting device.

1,385,757. PLASTIC COMPOSITION FOR BRICKS. JOHN SMITH, St. Louis, Mo. Filed July 17, 1919, Serial No. 311,510. Renewed Apr. 2, 1921. Serial No. 458,084. 1 Claim. (Cl. 106—24.5.)

A plastic composition comprising cement, coal ashes and brick dust of substantially equal proportions.

1,385,758. ELASTIC ROD FOR MOTORS. EMILE JOSEPH AUGUSTIN SCHULTZ, Paris, France. Filed Sept. 24, 1918. Serial No. 255,513. 2 Claims. (Cl. 123—78.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



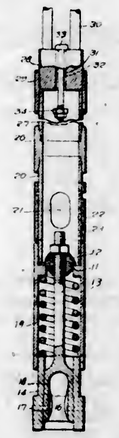
1. In an internal combustion engine, a telescopic connecting rod, comprising two parts adapted to slide one within the other at one end, means connecting the other ends with the parts respectively which are to be joined by the connecting rod, a spring between the sliding ends adapted to press them apart, said rod having an air chamber within the sliding ends, and packing between said parts to make a substantially air tight joint, the said spring being adapted to expand the connecting rod in order to drive the cylinder to the extreme end of the piston during the exhaust stroke and the said air chamber being adapted by compression of the confined air to cushion the contraction of the rod at the end of the compression stroke and at the moment of ignition.

1,385,759. TIME-FUSE. FRANCIS ARTHUR SUTTON, London, England, assignor to Clarence C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Filed Oct. 12, 1917. Serial No. 196,189. 11 Claims. (Cl. 102—36.)



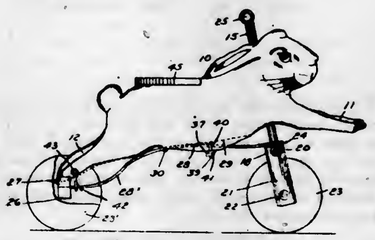
1. In a time fuse, a plurality of fuses crossing each other and leading to an explosive charge common to both; and means for igniting one of said fuses in advance of their point of crossing.

1,385,760. BAILER. IRA SWARTZ, Breckenridge, Tex. Filed Jan. 26, 1921. Serial No. 440,067. 4 Claims. (Cl. 166—19.)



1. A bailer comprising a cylinder, a valve stem mounted in the cylinder, a valve carried by the stem and adapted to close the upper end of the cylinder, a foot carried by the stem and slidable in the cylinder, a yielding member within the cylinder adapted to hold the valve normally yieldingly closed, a barrel communicating with the cylinder and positioned to receive material passing by the valve, and an air valve communicating with the barrel.

1,385,761. CHILD'S VEHICLE. ALFRED T. TIRADO, Kansas City, Mo., assignor of one-half to Frank C. Schaeffer, Kansas City, Mo. Filed Nov. 1, 1920. Serial No. 420,950. 12 Claims. (Cl. 208—165.)

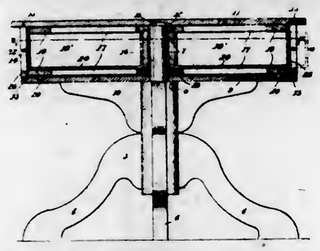


1. In a vehicle comprising forward and rear axles, wheels supporting said axles, guiding means for the forward axles and a vehicle body, the combination with the axles of a body supporting spring plate mounted at the respective ends upon the respective forward and rear axles and adapted to constitute an oscillating support for said body and an attachment connecting the body of the vehicle with the spring plate between its respective forward and rear ends whereby combined oscillations are afforded the body of the vehicle with its spring support.

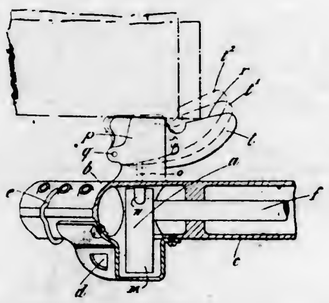
1,385,762. TABLE. JACOB TOPOR, Chicago, Ill., assignor to Handy Furniture Manufacturing Company, Chicago, Ill., a Corporation. Filed Feb. 11, 1920. Serial No. 357,824. 3 Claims. (Cl. 45—31.)

1. A table comprising a supporting pedestal having supporting legs and provided with a rigid reduced cylindrical upper end portion providing a shoulder at the base of said reduced portion, a circular horizontal platform fitted upon said cylindrical portion and resting on said

shoulder, a circular horizontal table top non-rotatably fitted upon the upper end of said pedestal in spaced relation to and above said platform, a horizontal frame revolubly mounted upon the cylindrical portion of the pedestal between the table top and the platform and including inwardly converging drawer guides and radially movable substantially triangular sliding drawers carried by said frame.



1,385,763. GAS-COOKING RING WITH MEANS FOR CONTROLLING GAS SUPPLY BY A KETTLE, SAUCEPAN, OR THE LIKE. ALFRED PEARCE-TOWL, Oxford, England. Filed July 14, 1920. Serial No. 396,289. 5 Claims. (Cl. 126—52.)



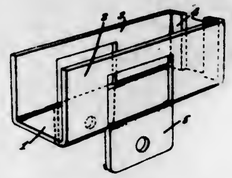
1. An automatic gas supply device for burner rings including in combination with the burner ring and fuel supply pipe, a valve carried by the fuel supply pipe, and an operator for the valve projecting above the plane of seating of a utensil above the burner and having a portion adapted to be progressively engaged by the utensil to variably control the valve.

1,385,764. ILLUMINATED SIGN, FACIES, AND THE LIKE. HAROLD WILLIAM TWYMAN, Norbury, London, England. Filed June 22, 1920. Serial No. 390,763. 3 Claims. (Cl. 40—132.)



1. An advertising and display apparatus including a transparent character bearing section, a source of light and a plurality of independent colored screens moving in parallel planes and at different rates of speed and between said source of light and character bearing section.

1,385,765. STAY-IRON. ELMER J. WELLS, Nashua, Iowa. Filed Oct. 8, 1919. Serial No. 329,268. 2 Claims. (Cl. 72—108.)



1. A studding socket formed of sheet metal bent to provide a studding receiving channel, ears struck downwardly from the channel, and an anchoring rod engaging within the ears and held thereby in spaced relation to the channel.

1,385,766. MONOGRAM-PRINTING DEVICE. LESTER A. WERNER, New York, N. Y., assignor to Flora W. Pinkus, New York, N. Y. Filed May 7, 1921. Serial No. 467,744. 9 Claims. (Cl. 101—375.)



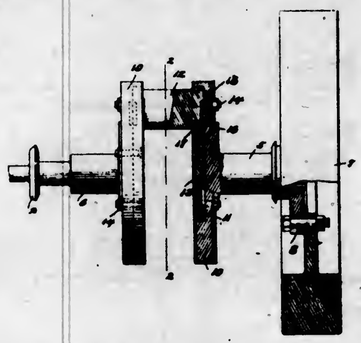
1. Means for printing monograms including a plate having an aperture the size of the field of the monogram and having a projecting border-printing rib, and strips adapted to be disposed behind the plate and extending across the aperture therein and having raised letters on one face adapted to be disposed within and to fit the aperture in the said plate.

1,385,767. COMBINED TOOTHBRUSH AND PASTE-CONTAINER. ADOLF WIDMAIER, Atlanta, Ga. Filed Feb. 5, 1921. Serial No. 442,811. 4 Claims. (Cl. 132—84.)



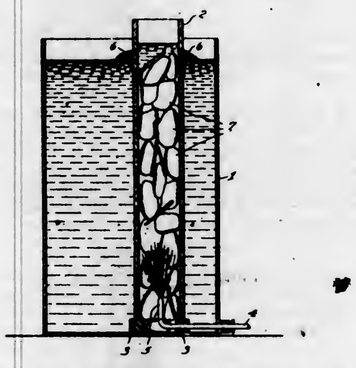
3. The combination with a paste holder having a removable cap provided with a suspension member, of a tooth brush, and connecting means looped to the handle of the tooth brush and swiveled to said cap.

1,385,768. VARIABLE-THROW CRANK-SHAFT. GLENN D. ANGLE, Dayton, Ohio. Filed Feb. 19, 1920. Serial No. 359,814. 2 Claims. (Cl. 74—38.)



1. In a variable throw crank shaft for engines, the combination of co-axial crank shaft sections having integral disk portions at their adjacent ends formed in their adjacent faces with eccentric recesses the diameter of which is greater than one-half the diameter of said disk portions, a crank pin having at its opposite ends eccentric disk portions of a size to fit flush into said eccentric recesses, the respective disk portions of the crank shaft sections and the crank pin having circular series of equally spaced bolt holes, and bolts insertible through said holes and the respective disk portions.

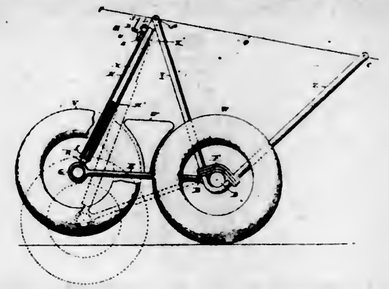
1,385,769. PROCESS OF MANUFACTURING IRON COMPOUNDS. FRANK BALL, Farmingdale, Long Island, N. Y., assignor to West Coast Kalsomine Company, West Berkeley, Calif., a Corporation of California. Filed Mar. 16, 1920. Serial No. 366,321. 8 Claims. (Cl. 23—13.)



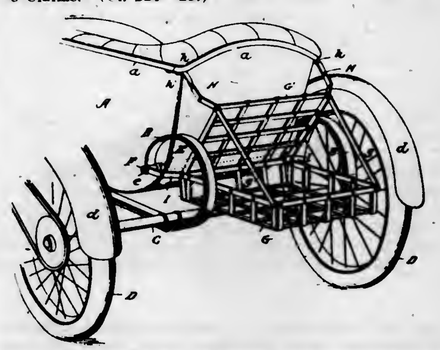
1. The process of producing iron compounds, which consists in supporting pieces of metallic iron in a vessel and passing a stream of an oxidising medium through the vessel and through the body of iron therein.

1,385,770. LANDING-GEAR. WALTER HENRY BARLING, Hasbrouck Heights, N. J. Filed Feb. 17, 1921. Serial No. 445,846. 6 Claims. (Cl. 244—2.)

1. In an aircraft, a landing gear assembly comprising two landing gear members, one of said landing gear members being attached at a point but slightly forward of the center of gravity of the aircraft and the second landing gear member being placed in a position considerably forward of said first named landing gear member, said second named landing gear member being normally held in inoperative position and adapted to be shifted to an operative position for landing.

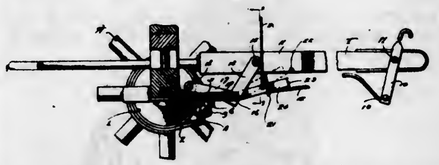


1,385,771. PACKAGE AND ARTICLE CARRIER FOR MOTORCYCLE SIDE CARS. WALTER L. BATTY, Baltimore, Md. Filed Sept. 4, 1919. Serial No. 321,549. 5 Claims. (Cl. 224—29.)



1. A package and article carrier, in combination with the transverse rod of a motor cycle side car, supporting springs for said side car, and arms offset from said carrier and extending through said springs and having openings adapted to freely receive the ends of the aforesaid supporting rod.

1,385,772. AUTOMATIC WAGON-BRAKE. ODVIN A. BERG, Whitehall, Wis. Filed Jan. 6, 1920. Serial No. 349,743. 2 Claims. (Cl. 188—117.)



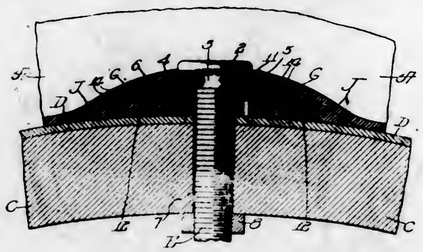
1. In an automatic brake, the combination with brake mechanism proper adapted for application to the front wheels of a vehicle; of a lever pivoted to the tongue and adapted for connection at its upper end with the neck yoke, a yoke whose arms are pivoted astride the tongue at its rear end, means connecting its bend both with the brake mechanism and the lower end of said lever, a latch pivoted to said bend and extending forward along the tongue, a guide on the latter supporting the front end of the latch, means for raising this end manually at will, and a stop on the tongue for coaction with the raised latch to prevent the application of the brakes.

1,385,773. PARACHUTE-HARNESS. EDWARD ROY BOLAND, Arcadia, Calif. Filed June 5, 1919. Serial No. 302,001. 8 Claims. (Cl. 244—21.)



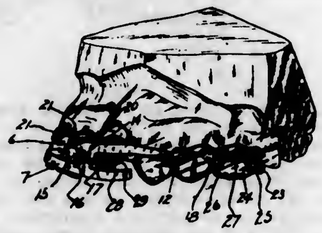
1. In a parachute harness, the combination of a breast strap, thigh-encircling straps, united connecting straps beween said breast strap and thigh-encircling straps, and suspension means on said united connecting straps.

1,385,774. BRIDGE FOR INNER TUBES. GEORGE W. BULLEY, St. Joseph, Mich. Filed Feb. 18, 1918. Serial No. 217,767. 2 Claims. (Cl. 152—13.)



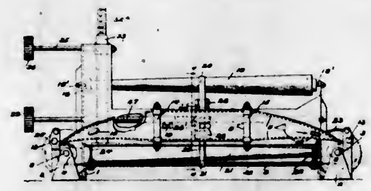
1. The combination of a wheel rim, a tire outer casing, an inner tube within the casing with its inner periphery bearing upon said rim, and having an indented portion in said inner periphery, a valve stem extending through said indented portion and extending through said wheel rim, a nut on said stem for fastening it to said indented portion, a mass of rubber filling the space between said indented portion and the wheel rim, forming a bridge for supporting said indented portion adjacent the valve stem, and having a central recess surrounding said valve stem, and a cup member fitted in said recess and inclosing said nut.

1,385,775. DOUBLE-BAR ARCH-BAND. JOHN E. CANNING, Denver, Colo. Filed Feb. 4, 1919. Serial No. 274,833. 4 Claims. (Cl. 32—19.)



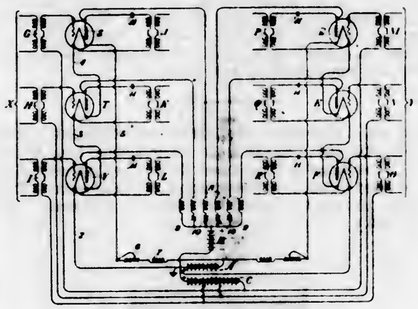
1. An arch band, whose front portion is composed of two spaced integral parts, one part having rearwardly-extending threaded stems adapted to coöperate with suitable anchorage.

1,385,776. GROUND-SPEED METER FOR AIRCRAFT. ROWLAND L. CHAMBERLAIN, Auburn, Calif. Filed Aug. 23, 1919. Serial No. 319,462. 3 Claims. (Cl. 33—46.)



1. A ground speed meter comprising a continuously driven horizontal member provided with sighting marks, and a sighting device vertically adjustable with respect to said element and designed to coöperate with said sighting marks.

1,385,777. GRID-CIRCUITS FOR ELECTRON-TUBES. ALVA B. CLARK, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 20, 1919. Serial No. 298,368. 9 Claims. (Cl. 179—170.)



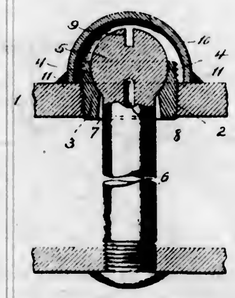
6. In combination, a plurality of electron tubes, a source of potential having terminals of graded negative potential with respect to the filaments of said tubes, respective independent input translating devices for the tubes, and circuits connecting said input translating devices with the respective grids, said circuits being connected to the respective terminals of said source of potential.

1,385,778. ILLUMINATING MEANS. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed July 25, 1917. Serial No. 182,744. 4 Claims. (Cl. 240—1.)



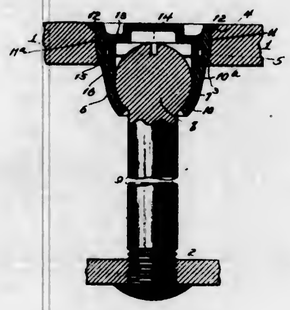
1. Illuminating means comprising a globe having a coating therein of phosphorescent material, a portion of said coating consisting of phosphorescent material combined with radioactive material in sufficient quantities to render said portion of the coating permanently luminous.

1,385,779. STAYBOLT STRUCTURE. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed July 29, 1919. Serial No. 314,086. 1 Claim. (Cl. 85—1.5.)



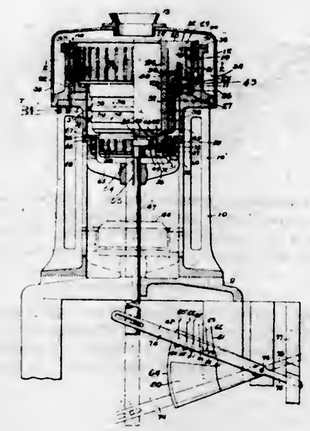
The combination with a boiler sheet having a threaded opening, of an externally threaded bearing sleeve passing through said opening and having an internal seat for the head of a staybolt, a staybolt having a headed portion entering said sleeve and mounted on the seat therein, a permanent closure consisting of a cap having its edge portion surrounding the opening in the boiler sheet and disengaged from said sleeve, said cap inclosing the bolt head mounted in said sleeve, and a weld around the edge portion of said cap and permanently uniting the latter with the boiler sheet.

1,385,780. STAYBOLT STRUCTURE. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Sept. 10, 1919. Serial No. 322,875. 1 Claim. (Cl. 85—1.5.)



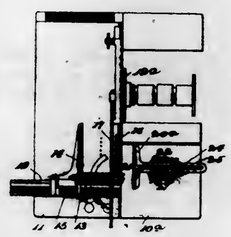
In a staybolt structure, a bearing member having an internal seat for the head of a staybolt, said bearing member having an annular transversely rounded head portion at its outer end and having its inner end portion rounded exteriorly, said bearing member also having a straight tapering exterior portion between its rounded inner end portion and its rounded head portion.

1,385,781. ELECTRICALLY-OPERATED CENTRIFUGAL CASTING-MACHINE. HAROLD G. EYNON, Philadelphia, Pa. Filed Oct. 3, 1919. Serial No. 328,171. 60 Claims. (Cl. 22—65.)



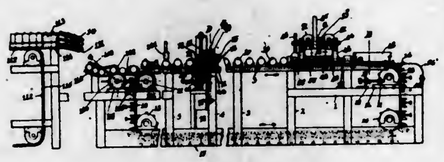
1. In the method of centrifugal casting with a mold formed in two parts, a body and a separable end, the novelty which consists in pouring the casting with the end in position, separating the end from the mold, removing the casting while maintaining rotation of the body of the mold and replacing the end to prepare for another casting.

1,385,782. BEVELING DEVICE. WILLIAM M. GARWOOD, Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1920. Serial No. 353,347. 4 Claims. (Cl. 29—64.)



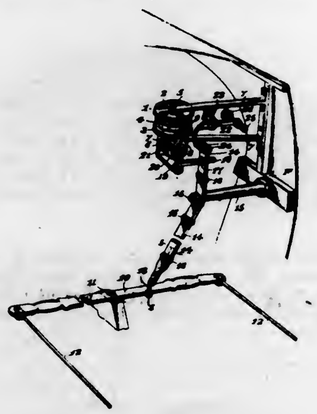
1. A device for beveling the ends of type-slugs or the like, comprising cutting means, an abutment beyond the plane of cutting of said cutting means, said abutment having a slug-engaging face, and means for adjusting said abutment to bring said face to a distance from the plane of cutting of said cutting means equal to the altitude of a right-angled triangle having the thickness of the slug to be beveled as one of its shorter sides, said adjusting means having indicia for designating the position of adjustment for slugs of varying thicknesses.

1,385,783. APPARATUS FOR APPLYING BINDING-POSTS TO DRY CELLS. JOHN C. GILLETTE, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Filed Sept. 20, 1916. Serial No. 121,909. 11 Claims. (Cl. 113—59.)



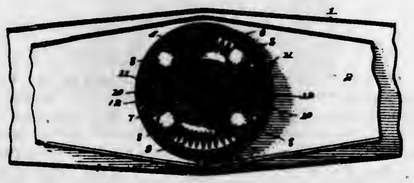
1. In apparatus for operating on a dry cell, a conveyer having means thereon for supporting dry cells, means for abrading a spot on said cells and a lifting member adapted to engage said supports and cells to raise the cells.

1,385,784. DRIFT-COMPENSATING DEVICE FOR AIRSHIPS. CHALMERS G. HALL, Washington, D. C. Filed June 25, 1919. Serial No. 306,631. Renewed May 11, 1921. Serial No. 468,837. 6 Claims. (Cl. 244—29.)



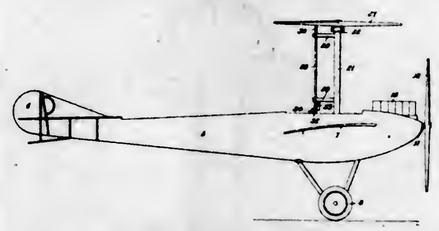
1. In combination with an airship, a rudder, a compass, a movable lubber line associated with said compass, and means to move said lubber line and said rudder simultaneously.

1,385,785. STEERING MECHANISM. ALFRED H. HOFER, Dayton, Ohio, and LUKE T. WICKEY, Los Angeles, Calif. Filed Oct. 25, 1920. Serial No. 419,481. 5 Claims. (Cl. 244—29.)



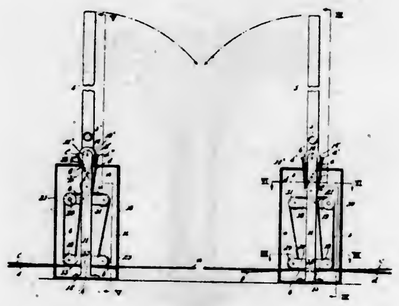
1. Irreversible self-locking steering mechanism for aircraft, embodying in combination, a centrally pivoted footoperable steering bar, a centrally pivoted rudder operating bar, a cam operable by and having a fixed relation to said rudder-operating bar, an annular stationary clutch member, a movable clutch member adapted to effect a locking engagement between said cam and stationary clutch member, and means on said foot operable steering bar to release said movable clutch member.

1,385,786. AEROPLANE. GEORGE HEIS, Simpson, W. Va. Filed Dec. 16, 1920. Serial No. 431,291. 9 Claims. (Cl. 244—15.)



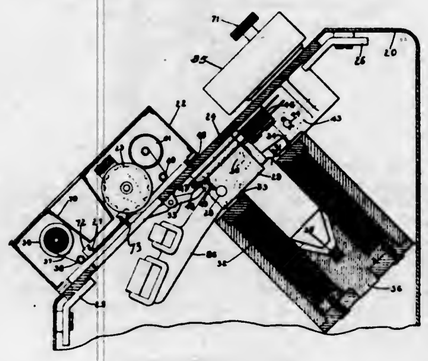
1. In combination with an aeroplane having a fuselage with a main propeller actuating motor at the forward end thereof, said motor being provided with a rearwardly projecting drive shaft, a dust-proof upright rigidly mounted at the rear end of said shaft, a vertical shaft journaled within said upright and rotatably geared to the first named shaft, an overhead auxiliary propeller operatively connected to the upper end of said second named shaft, means operable by a person within the fuselage to disconnect the second named shaft from the drive shaft, and means operable by the person within the fuselage to releasably maintain the overhead propeller against rotation when said second named shaft is disconnected from the drive shaft, said last named means including a vertically slidable rod having a yoke upon its upper end arranged to embrace the rear wing of the propeller when said rod is raised.

1,385,787. RAILROAD-GATE. DMITRO HRYNIEWICH, Livermore, Pa. Filed Aug. 13, 1920. Serial No. 403,261. 1 Claim. (Cl. 246—293.)



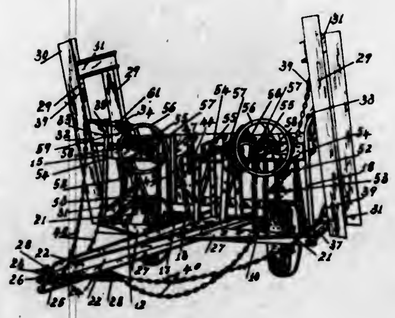
A railroad crossing gate comprising supporting standards, gate arms pivotally mounted in the upper ends thereof, a pair of rope connections between the lower ends of said arms with the opposite ends of each rope connected respectively to the inner and outer sides of the arms, guide pulleys supported on said standards over which the rope connections pass, train operated means arranged at each side of the gate having rope connections with the adjacent gate arms for operation thereof, the rope connections between the arms effecting simultaneous movement thereof, and guide pulleys supported on said standards for the ropes connecting the train operated means to the gate arms.

1,385,788. CREDIT-SLIP-AUTHORIZING APPARATUS. ARTHUR C. KIASHNER, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed Dec. 19, 1919. Serial No. 346,145. 18 Claims. (Cl. 101—318.)



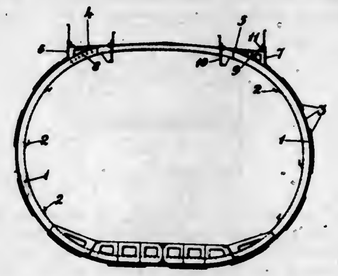
2. In a store system, the combination of a marking device, a normally inoperative controlling means therefor, and a plurality of means located in the marking device operable for rendering the controlling means operative.

1,385,789. ROAD-DRAG. FRANK R. MILLER, Springfield, Ill. Filed Feb. 27, 1920. Serial No. 361,647. 6 Claims. (Cl. 37—7.)



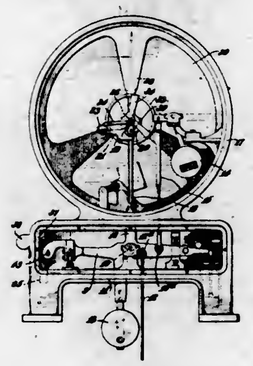
1. In a road drag, the combination of a drawbar structure comprising angle bars diverged from the front toward the rear; a transverse bar uniting the converged ends of the angle bars; and having a pair of notches adjacent to each end of said transverse bar, a main frame; wheels supporting the main frame; two laterally extendible drag-units hinged at the respective ends of the main frame, and two pairs of chains engaging in the pairs of notches adjacent to the respective ends of said transverse bar, one chain of each pair being attached adjacent to the outer end of one lateral drag-unit and the other chain of the same pair being attached adjacent to the inner end of the same drag-unit, to exert uniform forward pull at both ends of the respective extended drag units.

1,385,790. TUBULAR SHIP'S HULL. GIUSEPPE VITULLI MONTARULI, Rome, Italy. Filed Aug. 28, 1919. Serial No. 320,544. 1 Claim. (Cl. 114—85.)



A ship's hull having a plurality of circular transverse frames, a number of said frames being formed with a flattened portion at the top, the remaining frames terminating adjacent the flat portion on either side thereof, hatchway stringers mounted on the ends of said remaining frames to form a passage therebetween, plates for securing said stringers to the frame, angle brackets secured to the curved portion of the frames adjacent the plates adapted to form a horizontal deck-supporting portion at either side of the hatchway and plating for covering the angle brackets and curved portions of the hull from points adjacent the angle brackets, whereby the angle brackets are adapted to form a deck-supporting structure adjacent the hatchway.

1,385,791. SCALE. LOUIS ASHLEY OSGOOD, Dayton, Ohio, assignor, by mesne assignments, to International Scale Company, Dayton, Ohio, a Corporation of Illinois. Filed Feb. 7, 1920. Serial No. 356,930. 9 Claims. (Cl. 265—62.)

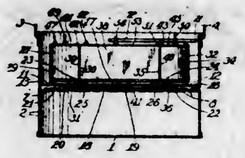


1. In a scale, in combination, a scale lever, a dial and a pointer adapted to swing thereover, a pinion connected to the pointer to actuate the same, an arm extending from the lever toward the pinion, a rack to rotate the pinion, and a spring supported by the arm, carrying the rack and serving to maintain the same in mesh with the pinion.

1,385,792. COMBINATION FISH AND BAIT BUCKET. HERBERT H. PETTY, Indianapolis, Ind. Filed July 16, 1920. Serial No. 396,733. 7 Claims. (Cl. 43—55.)

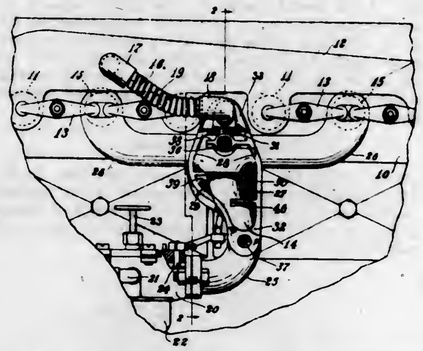
7. A combination fish and bait bucket comprising a bottom and a side wall that are oval in plan, a perfo-

rated floor secured to the side wall and having a door-way, provided with a door and having reticulate portions adjacent to said wall, a pail connected to said wall, two end pails arranged upon the floor with studs between the floor and the pail bottoms, each end pail having a hinged and latched perforate cover provided with a handle, and



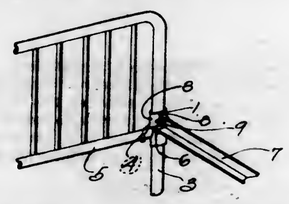
a main pail that is rectangular in plan and arranged upon the floor with studs between the floor and the pail bottom, the main pail being between the end pails and between the reticulate portions of the bottom and having a hinged and latched cover provided with a handle to carry the pail.

1,385,793. METHOD OF VAPORIZING LIQUID FUELS AND MEANS THEREFOR. ROBERT M. PIERSON, Akron, Ohio. Filed Sept. 3, 1920. Serial No. 407,901. 21 Claims. (Cl. 123—122.)



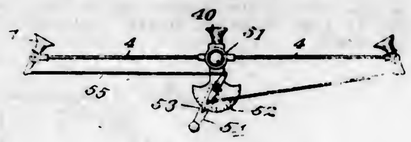
1. The method of operating internal-combustion motors which comprises mixing the air and fuel spray in a suction carbureter, controlling the motor by variably throttling the mixture, vaporizing the fuel in the mixture by diverting a portion of the motor exhaust gases into heating relation with the wall of the mixture passage, and discharging the diverted gases through said wall into said passage at a point posterior to the throttling point.

1,385,794. BEDPOST-HANGER. OTTO PIOTTER, Harbor Beach, Mich. Filed Jan. 17, 1921. Serial No. 437,745. 1 Claim. (Cl. 5—55.)



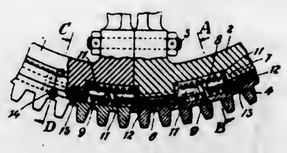
A bed post hanger made of a single piece of metal and embodying side flanges to engage the bed post, a downwardly directed hook to engage the end rail, and a sleeve to engage the side rail.

1,385,795. METHOD OF AND APPARATUS FOR DETECTING AND LOCATING SOUND, &c. ELIAS E. RIES, New York, N. Y. Filed June 20, 1912. Serial No. 704,713. 15 Claims. (Cl. 181—26.)



1. A sound-locating apparatus comprising a pivotal swinging support, two separated sound-receivers mounted on said support at opposite sides of and substantially equal distances from its pivotal point, and means associated with said pivotal support and sound-receivers, for equalizing and comparing the relative intensities of the sounds collected by said receivers as the support is swung about its pivotal point, whereby both the direction and distance of the sound from the place of observation are directly indicated and ascertained.

1,385,796. RESILIENT GEAR-WHEEL. ALBERT ROTH, Chernez-sur-Montreux, and AUGUSTE ROMANG, Fontanivent-sur-Clarens, Switzerland. Filed Nov. 26, 1920. Serial No. 426,405. 2 Claims. (Cl. 74—29.)



1. In a resilient gear wheel, a rim revolubly movable on the felly of the wheel and provided with undercut projections adapted to engage with similarly shaped grooves in the face of the felly of the wheel, a plurality of spring sockets employed in pairs, each spring sockets fitting into a recess provided therefor in the felly of the wheel and extending into the space between the ribs on the rim, a spring extending between each pair of said spring sockets, a bolt extending from each spring socket and lying within the spring associated therewith, and a stop between each pair of spring sockets lying within the recess between the ribs on the rim and secured in position therein.

1,385,797. HAIR-WAVER. HENRY M. SIEGEL, Malden, Mass. Filed May 24, 1921. Serial No. 472,214. 5 Claims. (Cl. 132—40.)

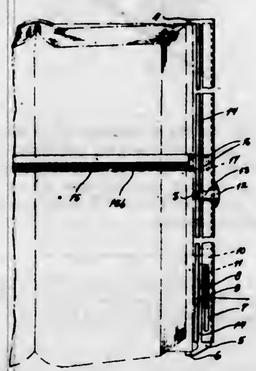
1. A hair-waving device comprising a body-portion provided with a double series of cleats adapted to have a lock of hair wound sinuously back and forth around the same in an alternating succession, for forming a series of

undulations or waves in said lock, a comb at one end of said body-portion adapted to be engaged in said lock at or



adjacent the root-ends of the hairs, and a lock-retaining finger at the opposite end thereof.

1,385,798. SELF-ILLUMINATOR FOR READING AND WRITING. HYMAN SIBOT and HARRY SIBOT, New York, N. Y. Filed Dec. 4, 1920. Serial No. 428,419. 2 Claims. (Cl. 240—1.)



2. A device of the class described comprising a pair of legs hinged together, said legs being of substantially semi-cylindrical cross-section, means upon the ends of said legs for securing the device to a book or the like, a slot extending throughout the lengths of said legs, a rod slidably mounted in said slot, said rod being provided with luminous paint on the surface thereof.

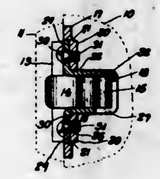
1,385,799. RIVET OR FASTENER. RAPHAEL L. SMITH, St. Louis, Mo. Filed July 11, 1918. Serial No. 244,384. 3 Claims. (Cl. 85—37.)



3. Elements adapted to be fastened together having holes therethrough threaded for a portion of their length,

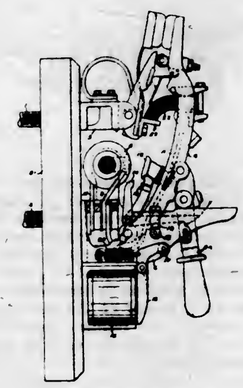
in combination with fasteners threaded for a portion of their length screwed into the threaded portion of said holes and enlarged to fill the remaining portions of the holes after being placed in position.

1,385,800. HINGE. JOSEPH SOSS, New York, N. Y. Filed Mar. 7, 1921. Serial No. 450,160. 6 Claims. (Cl. 16—135.)



3. In a hinge butt of the class described, an attaching plate fashioned from sheet metal and provided with an elongated recess in one face thereof formed by pressing the material of said plate inwardly, the depth of said recess being less than the thickness of the material of said plate and the transverse and vertical dimensions of said inwardly pressed portion being less than the corresponding dimensions of said recess, and the central part of said inwardly pressed portion being provided with an aperture.

1,385,801. MAGNETIC CONTROLLING MECHANISM. HALFDAN A. STEEN, Christiania, Norway, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company, a Corporation of Delaware. Original application filed June 19, 1911, Serial No. 634,149. Divided and this application filed Aug. 21, 1918. Serial No. 251,344. 10 Claims. (Cl. 200—87.)



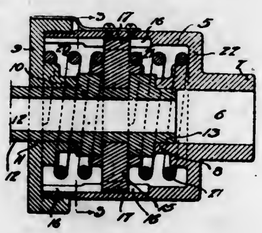
1. In a magnetic controlling mechanism, stationary terminals, an overload coil disposed at one side of one of said terminals, means including a member for electrically bridging said terminals and for connecting said overload coil in series with said terminals and said bridging member, latch means operable by said overload coil for normally holding said member in bridging position, and an auxiliary coil disposed at the other side of the same terminal, all of said elements being in substantial alinement.

1,385,802. ELECTROPLATED PROPELLER FOR AERIAL VEHICLES. MILES C. ST. JOHN, Chicago, Ill., assignor of one-half to James Erickson, Chicago, Ill. Filed Feb. 18, 1920. Serial No. 359,523. 6 Claims. (Cl. 170—159.)



1. A propeller comprising a core of pressed fibrous pulp, and an electroplating of metal.

1,385,803. FLEXIBLE DRIVE CONNECTING DEVICE. WARREN M. STONE, Camden, N. J. Filed Sept. 10, 1920. Serial No. 409,429. 3 Claims. (Cl. 64—96.)



1. A device of the character described including a rotatable housing having alined bores in its opposite ends; a hollow rotatable shaft having portions fitting said bores, said shaft between said portions having a screw thread and parts abutting the ends of the housing whereby relative longitudinal movement of said shaft and housing is prevented; a collar in screw threaded engagement with said screw thread of the shaft and slidably keyed to said housing; and resilient means opposed between said collar and the opposite ends of said housing; substantially as described.

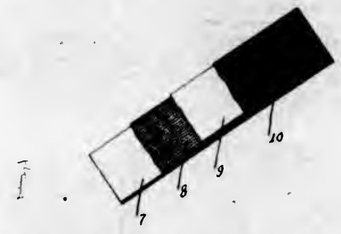
1,385,804. SPRING-TIRE. WILLIAM E. STOUT, Seattle, Wash. Filed Oct. 9, 1920. Serial No. 415,824. 1 Claim. (Cl. 152—8.)

A spring tire for vehicles comprising a rim adapted to fit a wheel center, tread sections each comprising a transversely concaved plate longitudinally curved to form a segment of a circle and having a tread surface of a compressible elastic material as rubber, yokes having pivot eyes and secured to the inner sides of the said concaved plate, a pivot bolt connecting the pivot eyes at opposite sides, a plate secured to the rim and having side lugs provided with radially positioned slots receiving said pivot pin, said rim plate and the tread plate having spring



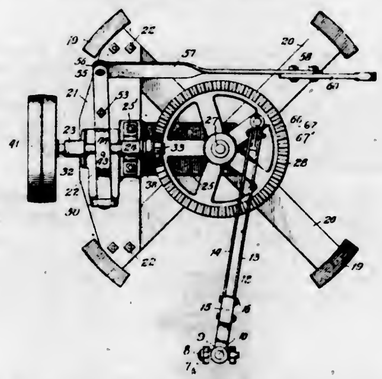
retaining bosses toward their ends and helical springs having their ends surrounding said bosses.

1,385,805. MATERIAL FOR PRODUCING PATCHES FOR PNEUMATIC TIRES AND THE LIKE. JOHN J. VOORHEES, Jersey City, N. J. Filed July 11, 1919. Serial No. 310,041. 4 Claims. (Cl. 154—48.)



1. A material for the production of patches for repairing pneumatic tires and the like, consisting of a layer of vulcanized rubber, a layer of elastic fabric vulcanized thereto, and a layer of unvulcanized rubber permanently united to the fabric, said material being stretchable longitudinally and transversely.

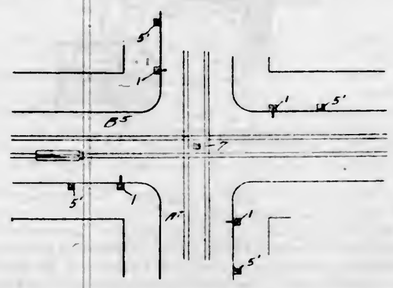
1,385,806. WASHING-MACHINE MECHANISM. WILLIAM H. VOSS, Davenport, Iowa. Filed July 30, 1917. Serial No. 183,429. 4 Claims. (Cl. 74—7.)



1. In apparatus of the class described, a support, an operating lever pivoted to the side of said support, a horizontal power shaft slidably mounted beneath said support, a pinion on said shaft, a single means connected with the support and engaging the pinion to prevent longitudinal movement thereof in either direction but permitting rotary movement thereof, a gear driven by said pinion, connecting means between said gear and said lever, and a clutch mechanism associated with said pinion, whereby the same may be thrown into or out of operation upon longitudinal movement of said shaft.

4. In apparatus of the class described, a support, a lever pivoted to the side of said support, a pitman beneath said support, and a universal connection between said lever and said pitman comprising a vertical bearing formed in the end of said pitman, a sleeve seated on the upper edge of said bearing, a shaft pinned in said sleeve and rotatably mounted in said bearing, and said lever having pin connection with said sleeve

1,385,807. TRAFFIC SIGNAL SYSTEM. RALPH E. WETTER, Dallas, Tex., assignor to Universal Traffic Control Company, (a Trust Estate), Dallas, Tex. Filed Nov. 23, 1918. Serial No. 263,916. 5 Claims. (Cl. 177—330.)

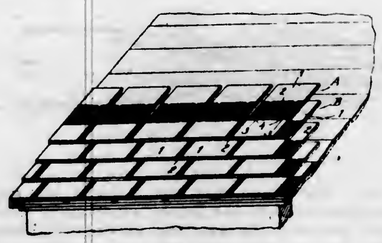


1. In a traffic control system, the combination with a signal pole having electrically controlled signals located at a street corner, and a companion signal pole placed apart from the first signal pole.

1,385,808. SHOE-FILLER. HERBERT ABRAHAM, New York, N. Y., assignor to The Rubberoid Co., a Corporation of New Jersey. Filed Nov. 17, 1917. Serial No. 202,536. 1 Claim. (Cl. 106—3.)

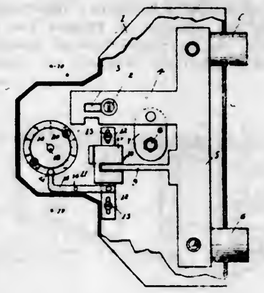
A waterproof shoe bottom filler, composed of bituminated non-felted fibers, which when heated within a range of from 200 to 400 degrees Fahrenheit will assume a plastic consistency, enabling it to be readily troweled into the cavity between the sole and insole of a shoe, and which at atmospheric temperatures will regain a tough, resilient and pliable state.

1,385,809. SHINGLE. HERBERT ABRAHAM, New York, N. Y., assignor to The Standard Paint Company, a Corporation of New Jersey. Filed Dec. 1, 1919. Serial No. 341,791. 5 Claims. (Cl. 108—8.)



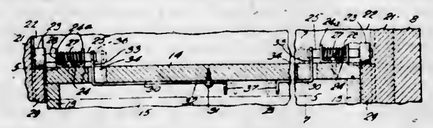
5. A shingle composed of bituminized fabric having a transverse band of contrasting color on its weather surface intermediate the shingle ends.

1,385,810. COMBINATION-LOCK. ARTHUR F. BLECHSCHMIDT, Dayton, Ky., assignor of one-half to Walter E. Beaty. Filed Apr. 18, 1918. Serial No. 229,251. 2 Claims. (Cl. 70—53.)



1. In a lock, the combination with locking bolts and tumblers, a bolt stop in connection with said bolts, a bolt check slidably mounted intermediate said tumblers and said bolt stop, said bolt check having an opening adapted to receive said bolt stop to permit the operation of said bolts, a tumbler arm pivotally mounted adjacent said bolt check and arranged to maintain a desired relation between said tumblers and said bolt check, means whereby upon the removal of said tumblers, when the bolts are in locking position, said bolt check is moved gravitationally, and means whereby when so positioned it is adapted to secure the bolts in such position, and means arranged to engage said bolt check when so positioned gravitationally to prevent raising the bolt check.

1,385,811. GUIDE OR SUPPORT FOR DRAWERS AND THE LIKE. JACOB BODENSTEIN, Herkimer, N. Y. Filed Mar. 8, 1919. Serial No. 281,323. 10 Claims. (Cl. 45—77.)



1. In an article of furniture, the combination of a sliding member, a guide therefor, a stop, means for supporting the front portion of said sliding member, a roller on said sliding member which rolls on said guide to support the rear portion of said sliding member and which engages said stop and is adapted to be shifted to a position to pass said stop and permit the removal of the sliding member from said guide, said roller, when so shifted also permitting the insertion of said slide into said article of furniture, and means which automatically shift said roller into said guide when moved inwardly beyond said stop.

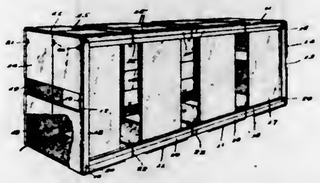
1,385,812. SUPPORTING DEVICE FOR FALSE TEETH. FRED A. BINNS, Addison, Mich. Filed July 18, 1919. Serial No. 311,693. 4 Claims. (Cl. 84—465.)



3. In a device for supporting a set of false teeth in the mouth of the user, a pair of spaced plates arranged for engagement with the lower surface of an upper set of false teeth whereby falling movement of the upper set is

prevented, said plates being arranged in spaced relation to each other to define an opening therebetween, as and for the purpose specified.

1,385,813. WIREBOUND PACKAGE. JEFFERSON CAYLOR, Indianapolis, Ind., assignor to Pioneer Box Company, Crawfordsville, Ind., a Corporation of Indiana. Filed Dec. 2, 1919. Serial No. 342,005. 8 Claims. (Cl. 217—43.)



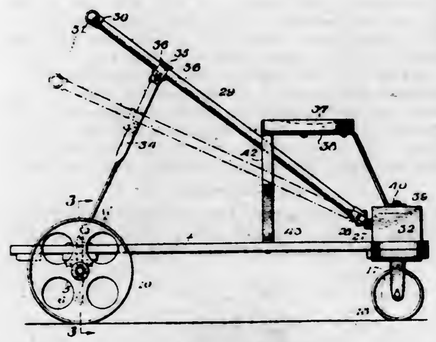
1. A package comprising relatively foldable cleated sections flexibly connected by binding members; and a cooperating cleated section having flexible connecter members projected therethrough and attachable to portions of the foldable sections.

1,385,814. DOOR-FASTENING. ROSS N. CLANIN, Whiting, Ind. Filed June 30, 1920. Serial No. 393,071. 3 Claims. (Cl. 292—285.)



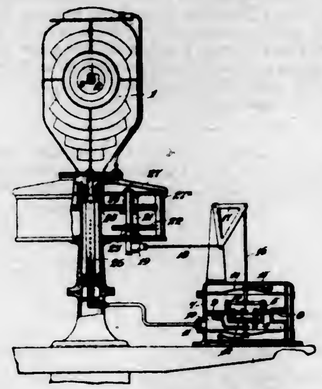
1. A door fastening including a pair of plates one of which is to be mounted on a door and the other upon the adjacent door jamb and the plates to be then connected together, said plates having securing screws projecting on their inner sides and being provided with spur formations bent to have their points in front of the plane of the inner sides of said plates.

1,385,815. VEHICLE. JAMES H. COLLINS, Harrisburg, Pa. Filed July 19, 1919. Serial No. 311,957. 2 Claims. (Cl. 208—33.)



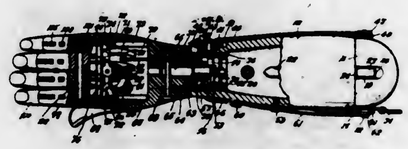
1. A vehicle, comprising a driving-wheel, a crank connected thereto, a revoluble stud, a steering-wheel carried by said stud, a bevel-gear also carried by said stud, a second bevel-gear coöperating with said first gear, and a member connected by means of a toggle to said second gear and connected by a link to said crank.

1,385,816. ROTATING GASLIGHTING APPARATUS. GUSTAF DALÉN, Lidingön, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Filed Nov. 16, 1916. Serial No. 131,647. 1 Claim. (Cl. 67—111.)



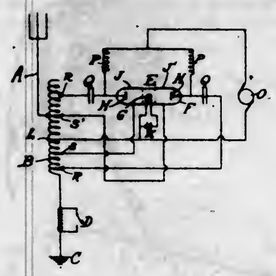
In a rotating gas lighting apparatus the combination of a burner, a diaphragm apparatus for producing a mixture of gas and air under a constant pressure, said apparatus comprising a member which moves rectilinearly alternately in opposite directions, a conduit for conveying the gas and air mixture from the said diaphragm apparatus to the said burner to produce a continuous and practically constant flame in the latter, a lens apparatus associated with said burner, a continuously rotating shaft to which the said lens apparatus is secured and upon which it is supported and with which it continuously rotates, connections between the said shaft and the said alternately moving member of the said diaphragm apparatus, said connections comprising means for converting intermittent rectilinear movements of the said alternately moving member into intermittent rotary movements, the intermittently rotating portions of said connections being in operative engagement with the said shaft whereby intermittent rotary movements are transmitted to the said shaft and a relatively heavy member having operative connection with the said shaft to insure that the intermittent movements transmitted thereto by the said connections shall be converted into a continuously rotating movement.

1,385,817. ARTIFICIAL ARM AND HAND. OTTO LE GRAND DILWORTH, Hartford, Conn. Filed Mar. 23, 1917. Serial No. 157,032. 35 Claims. (Cl. 3—12.)



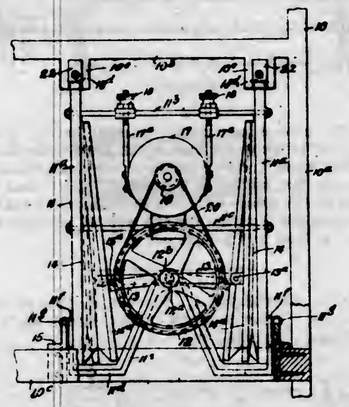
1. An artificial limb including an upper arm and a forearm pivotally attached thereto, an actuating member movably secured to the upper arm and located to receive pressure between said upper arm and the body of the wearer for actuation of said member, and a connection between said actuating member and forearm to effect bending movement of the latter.

1,385,818. RADIO-TRANSMITTER. CLAIR L. FARRAND, Elizabeth, N. J., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed June 14, 1919. Serial No. 304,290. 2 Claims. (Cl. 250—17.)



1. In radio transmitting apparatus, the combination of a vacuum valve having a heated cathode, a plurality of cold elements or plates, a plurality of plate circuits and connections for causing said vacuum valve to generate oscillations in the plate circuits, an antenna, an inductance coil connected in the antenna and plate circuits and a plurality of influencing members connected to points on said inductance coil at which the potentials are substantially out of phase.

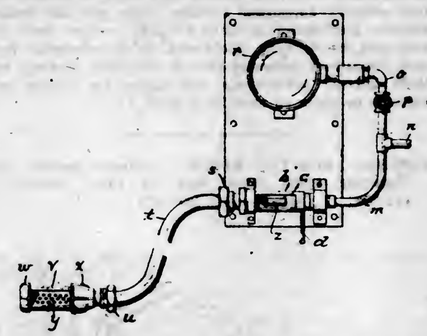
1,385,819. MOTOR-MOUNTING FOR PLAYER-PIANOS. CHARLES FREBORG, Kankakee, Ill., assignor to Price & Teeple Piano Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1919. Serial No. 314,525. 8 Claims. (Cl. 230—2.)



1. In combination, a piano structure comprising a casing, a frame locatable therein, an exhauster means, and a motor therefor carried by said frame, said frame being pivotally mounted to move into or out of said casing.

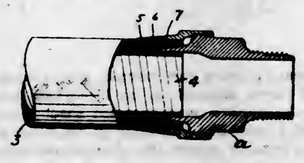
1,385,820. PNEUMATIC RIVET-PASSING APPARATUS. WILLIAM B. FURMAN, Chester, Pa. Filed Aug. 29, 1919. Serial No. 320,574. 10 Claims. (Cl. 302—2.)

1. In a rivet passing apparatus, the combination of a despatcher chamber adapted to receive a rivet, a compressed air supply conduit and a rivet-conveying conduit, both connected with said chamber, a closure for said chamber, a separate spring-actuated valve normally closing communication between the air supply conduit and said chamber, and means operatively connected with such



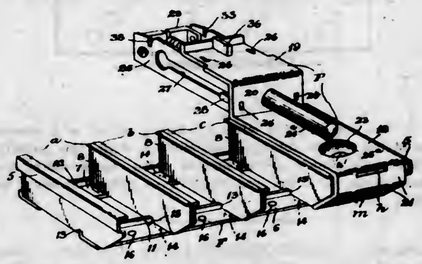
closure and valve adapted to close said closure and open said valve, said valve automatically closing upon the opening of the closure.

1,385,821. METAL-LINED HOSE. HOWARD W. GOODALL, Aldan, Pa. Filed Aug. 31, 1920. Serial No. 407,080. 5 Claims. (Cl. 137—90.)



1. Metal lined hose in which the outer rubber and the metal lining parts are co-extensive and which is adapted to receive a tapering coupling sleeve between its outer rubber and metal lining parts of which the latter comprises a pair of substantially half round wires disposed one with its flat face and the other with its round face toward the inner surface of the outer rubber part, said round and flat faces being flush and in contact with said inner surface and each arranged in the form of a spiral having a pitch substantially equal to the width of the flat face of the other, substantially as described.

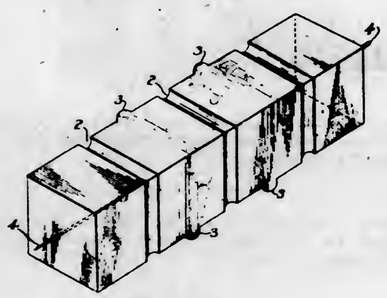
1,385,822. VENDING-MACHINE. ALBERT D. GROVER, New York, N. Y., assignor to Autosales Corporation, a Corporation of New York. Filed May 8, 1918. Serial No. 233,104. 9 Claims. (Cl. 211—8.)



5. In a vending machine, a casing, a framework supported between the sides of said casing and removable as a whole, said framework comprising a transverse supporting base and a plurality of flanged members rigidly

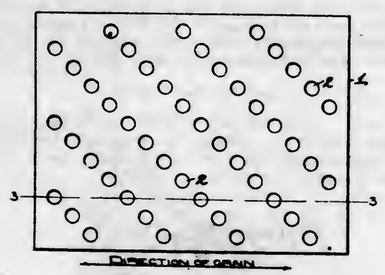
mounted on said base at right angles thereto, the flanges of said members being arranged in pairs and the flanges of each pair extending toward each other, a unitary section slidably supported between each pair of flanges, delivery mechanism mounted on each section, each section and its delivery mechanism being removable from said framework independently of the other sections and their delivery mechanisms, and means for locking said sections in place on said framework.

1,385,823. SPACING-BLOCK. CHARLES GRANT, San Francisco, Calif. Filed Sept. 23, 1920. Serial No. 412,304. 2 Claims. (Cl. 25—131.)



1. A spacing block for concrete forms comprising an elongated block adapted to be interposed between the forms to maintain a predetermined spacing between the same, and a spike-like projection in the block adapted to enter the form to secure the block in position.

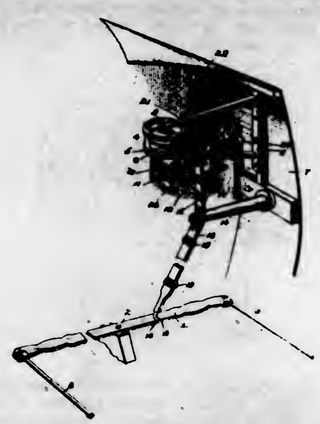
1,385,824. MOUNTED PRINTING-PLATE. HORACE W. HACKER, Chicago, Ill. Filed Dec. 30, 1920. Serial No. 434,078. 4 Claims. (Cl. 101—382.)
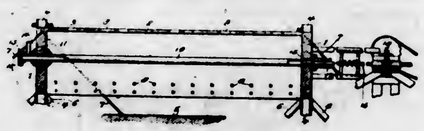


3. The combination with a printing plate; of a wooden mounting block for and assembling with the printing plate, said block being formed with holes distributed throughout the block and directed to cross and sever the grain thereof.

1,385,825. DRIFT-COMPENSATING DEVICE. CHALMERS G. HALL, Washington, D. C. Filed Feb. 17, 1921. Serial No. 445,658. 5 Claims. (Cl. 244—29.)

1. In combination with an aircraft, a rudder, a compass having a movable lubber line, transmission means to move said lubber line an amount proportional to the movement of said rudder, means to vary the proportionate movement between the lubber line and the rudder consisting of a variable throw-regulating element, and means for adjusting the last named element embodying a setting member, and means to shift said setting member.

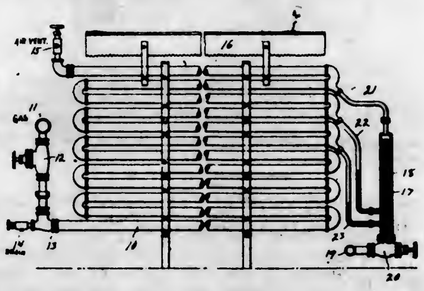


1,385,826. PROCESS FOR PRODUCING DENSE ABSORBENT CHARCOAL. LEE F. HAWLEY, Madison, Wis., assignor to United States of America. Filed Apr. 3, 1919. Serial No. 287,315. 5 Claims. (Cl. 127—2.)



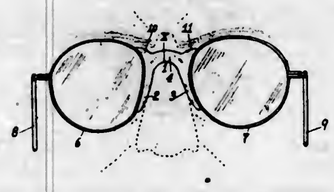
1. The process of making charcoal having a specific gravity of at least .95 from wood which comprises comminuting wood, forming blocks of the comminuted wood, subjecting the blocks to a pressure of at least 30,000 pounds to the square inch, and distilling the blocks under a substantially constant directly applied mechanical pressure of at least 100 pounds per inch.

1,385,827. CONDENSER. NICOLAI H. HILLER, Carbondale, Pa. Filed Sept. 28, 1920. Serial No. 413,286. 5 Claims. (Cl. 257—42.)



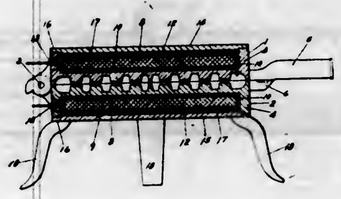
1. An upflow condenser for readily liquefiable gases including a conduit having an inlet at the lower end an air purge outlet at the upper end, means for flowing a cooling liquid in heat interchanging relationship to said conduit, a receiver for the liquefied gas, having a draw off from the upper portion thereof, and a plurality of liquid outlet connections along the path of the conduit to points at different elevations in said receiver, the liquid outlet nearest to the inlet of said conduit entering the receiver at the greatest depth below the liquid level in the latter.

1,385,828. EYEGLASS-MOUNTING. CHARLES L. HOGUE, Oakland, Calif. Filed Feb. 12, 1920. Serial No. 358,055. 3 Claims. (Cl. 88—43.)



1. A bridge for eyeglasses comprising spaced and elongated downwardly-extending nose rests connected by a transverse portion at their upper ends, the outer sides of each of said nose rests being adapted to be secured to lens mounts, and means on the bridge to engage under the eye socket of each eye to prevent an upward movement of the glasses.

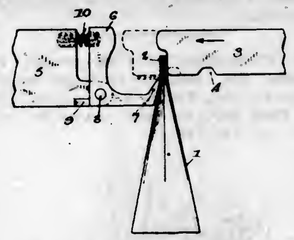
1,385,829. WAFFLE-MOLD. WILLIE L. HOLBROOK, Seaside, Oreg.; Margaret Holbrook, administratrix of said Willie L. Holbrook, deceased, assignor to John W. Henry, Portland, Oreg. Filed Jan. 22, 1920. Serial No. 353,254. 4 Claims. (Cl. 219—19.)



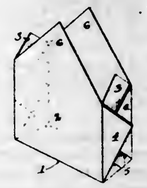
1. In a cooking utensil, the combination with a plurality of mold members in operatively separable relationship one to another, and each provided, in operative proximity to its outside edge, with an integral wall affording storage for heat and defining a recess on the outside of each mold member, of an electric heating element operatively incased within each of said recesses.

1,385,830. METHOD OF FORMING CLOSURES OF SEALED RECEPTACLES. EDWIN F. HULBERT, Milwaukee, Wis., assignor to Jiffy Dessert Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Oct. 4, 1919. Serial No. 328,576. 6 Claims. (Cl. 226—56.)

1. The method of closing a sealed receptacle composed of a single sheet of material, which consists in folding the free margins of the mouth thereof upon themselves so as to form a sharply acute angle, pressing the same hard so that they will retain their position and corrugating portions of the free marginal ends and the upper portion of the bag adjoining the mouth thereof into intimate contact.

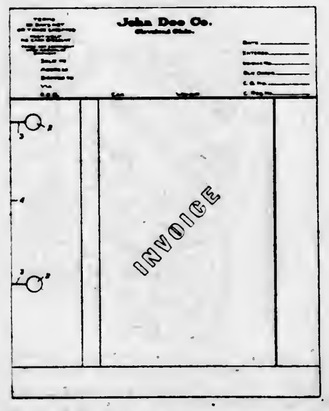


1,385,831. SEALED RECEPTACLE. EDWIN F. HULBERT, Milwaukee, Wis., assignor to Jiffy Dessert Company, Waukesha, Wis., a Corporation of Wisconsin. Filed Oct. 4, 1919. Serial No. 328,604. 1 Claim. (Cl. 229—62.)



A smooth sided sealed receptacle formed from a single square sheet of material, the bottom being laid out upon the diagonal thereof, all of the corners of the sheet being brought to points above the mouth of the receptacle, the receptacle being formed, closed, and sealed by then folding the free edges into sharply acute angles and making sealing corners by the intimate contact thereof.

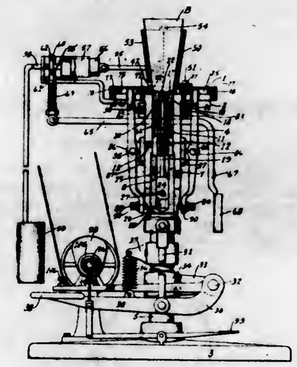
1,385,832. MANIFOLD-FORM SHEET. LELAND INGERSOLL, Cleveland, Ohio, assignor to The A. S. Gilman Printing Co., Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 13, 1919. Serial No. 317,248. 1 Claim. (Cl. 129—1.)



A manifold form sheet provided with a comparatively large circular perforation adapted to receive a filing post

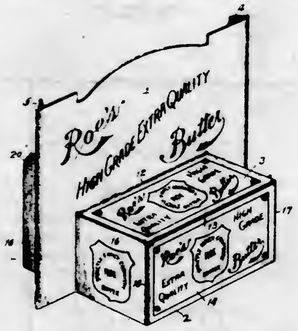
and located adjacent to one edge of the sheet, and a single line of perforations extending straight from the nearest edge of said enlarged perforation to the adjacent edge of the sheet.

1,385,833. EXPANDING DIE. MAXIMILLIAN P. JANISCH, Milwaukee, Wis., assignor, by mesne assignments, to Sealright Co., Inc., Fulton, N. Y., a Corporation of New York. Filed Sept. 18, 1916. Serial No. 120,592. 15 Claims. (Cl. 113—18.)



1. Apparatus for attaching mouth pieces to paper bottles, including the combination of a bottle holder adapted to fit the conically tapered sides of the bottles and to support them in an inverted position, an annular set of expanding die members, a tapered spreading mandrel operative within the circle of the die members to spread the latter, an annular series of inwardly movable clamping members adapted to engage and hold a mouth piece exteriorly during a die expanding operation, and means for simultaneously actuating the spreading mandrel and clamping members, said die members having outer faces expanding upwardly in conformity to the cone face of the inner surface of the bottle.

1,385,834. DISPLAY DEVICE AND METHOD OF FORMING SAME. CHARLES B. KELLOGG, Chicago, Ill., assignor of one-half to Eugene U. Knight, Chicago, Ill. Filed Jan. 31, 1921. Serial No. 441,109. 6 Claims. (Cl. 40—126.)



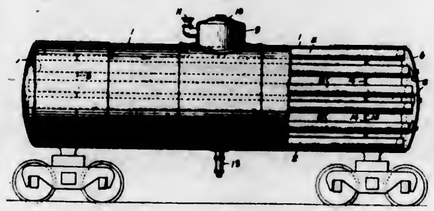
1. A display device comprising a back portion having angularly and rearwardly bent side wings provided with locking extensions, a forwardly extending base portion having a top and rearwardly bent side wings, said last mentioned wings extending back of said back portion and having means coöperating with said locking extensions to lock the parts together.

1,385,835. NUMBERING-HEAD. MAXIMILIAN H. KERN, New York, N. Y., assignor to Roberts Numbering Machine Company, a Corporation of New York. Filed Nov. 6, 1920. Serial No. 422,237. 4 Claims. (Cl. 101—85.)



1. A numbering head embodying therein a frame, a plurality of printing wheels rotatably mounted in said frame, each of said wheels having a ratchet wheel rotatable therewith, a detent pawl coöperating with each ratchet wheel, a spring having one end thereof supported upon said frame and the other end thereof engaging a pawl, and means coöperating with said frame and applying a constant tensioning pressure to said spring intermediate said point of support and said point of engagement thereof with the pawl.

1,385,836. CYLINDER-CAR. ARTHUR NEAL KERR, Pittsburgh, Pa., assignor, by mesne assignments, to Transcontinental Oil Company, Pittsburgh, Pa., a Corporation of Delaware. Filed June 11, 1917. Serial No. 174,041. 3 Claims. (Cl. 220—1.)



3. A vehicle body for transporting liquids having a high vapor tension, comprising a horizontal tubular metal shell, heads tightly closing the ends of said shell, vertical frames within said shell, liquid-containing tubes mounted in said frames and attached to one of them and provided at one end with filling connections, one of the heads of said shell being provided with apertures adjacent to the filling connections of the liquid-containing tubes and closures for tightly closing said apertures, said filling connections being accessible from the outside of said shell through said apertures when said closures are removed.

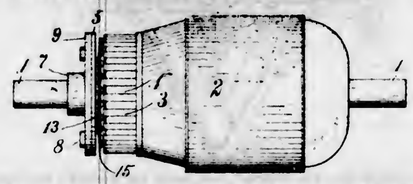
1,385,837. CLOTHESLINE-CLAMP. HERMAN KISTNER, Elizabeth, N. J. Filed Nov. 4, 1918. Serial No. 260,958. 1 Claim. (Cl. 24—134.)

A clothes line clamp consisting of a solid body having an angular and tubular bore through it, a guide-way provided with a contracted and an enlarged portion communicating with said bore, and an eccentric grip pivoted therein, said guide-way and eccentric grip being of less width than the said angular bore, said eccentric grip being provided in its periphery with a grooved portion provided with corru-



gations, means for engaging and releasing the same from a clothes line, and means formed in the body of the clamp, whereby it may be suitably attached or suspended.

1,385,838. SHORT-CIRCUITING MECHANISM. GEORGE H. LELAND, Dayton, Ohio. Filed June 16, 1919. Serial No. 304,439. 10 Claims. (Cl. 172—279.)



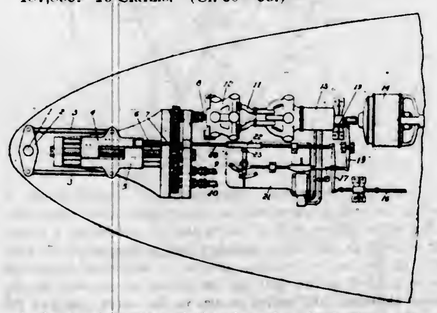
8. In a short circuiting mechanism for a single-phase alternating current motor, and in combination with the armature and commutator thereof, a short circuiting element adapted to be rotated into and out of operative relation with said commutator, and means controlled by centrifugal force to rotate said short circuiting element.

1,385,839. TWO-PIECE WATCH-CASING. LOUIS LEWITT, Brooklyn, N. Y. Filed Mar. 5, 1921. Serial No. 449,652. 2 Claims. (Cl. 58—88.)



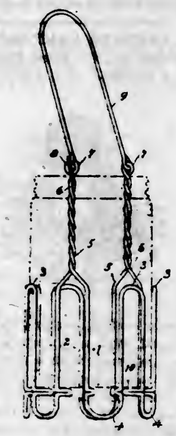
1. A casing for a watch-movement having a front with a crystal therein and a seat upon the inner side for the dial-plate of the movement, a body projected straight backward from the front to inclose the movement, a cover hinged to the rear of the body, and a locking-ring fitted to the rear part of the movement and to the inner side of the body at its rear edge.

1,385,840. STEERING-GEAR FOR SHIP'S. CHARLES M. MANLY, Buffalo, N. Y. Filed Aug. 23, 1917. Serial No. 187,895. 19 Claims. (Cl. 60—53.)



1. In a mechanism of the class described, the combination of a driving member and a driven member, and means for controlling the said driving member to prevent the speed of said driven member being accelerated at a rate sufficient to overload the driving member beyond a predetermined horse power.

1,385,841. HOLDER FOR FRUIT-JARS. THOMAS G. MELISH, Cincinnati, Ohio. Filed Apr. 17, 1919. Serial No. 290,776. 3 Claims. (Cl. 53—1.)

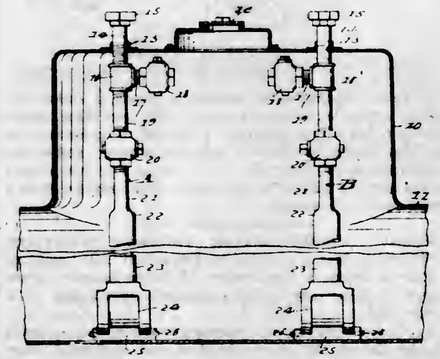


1. A holder for jars comprising a wire frame bent to form vertical loops, top and foot members and jar supporting members intermediate the length of certain of the vertical portions of said loops, all portions of each of said jar supporting members being in the same vertical plane with the vertical loop portion in which it is formed.

1,385,842. PROCESS OF BREAD-MAKING. CURTIS J. PATTERSON, Kansas City, Mo., assignor to The Campbell Baking Company, Kansas City, Mo., a Corporation of Delaware. Filed Mar. 30, 1921. Serial No. 457,086. 2 Claims. (Cl. 99—10.)

1. The step in the process of making bread which consists in incorporating with the flour and other ingredients of the dough batch, peroxid in such quantities as will increase the moisture capacity of the dough batch above the normal without breaking down the gluten in the flour, such peroxid being non-toxic to permit its use in a food product.

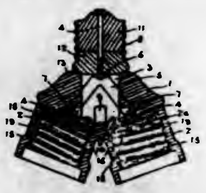
1,385,843. DEVICE FOR LOADING GASOLENE IN TANK-CARS. THOMAS N. RUTHERFORD and EMETT H. RUDOLPH, Oilton, Okla. Filed Dec. 23, 1919. Serial No. 347,009. 3 Claims. (Cl. 220—86.)



1. A filling apparatus for gasolene tank cars adapted for arrangement in the dome of such car adjacent to the center plug and consisting of a pipe disposed in an upright

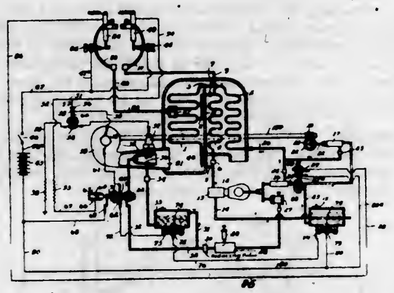
position with its inlet above the top of the dome and its outlet adjacent to the bottom of the car, said pipe being provided at an intermediate point with a cut-off stop cock and above the plane thereof and also in communication with the filling pipe with an outlet stop cock.

1,385,844. CLUSTER LAMP-SOCKET. EDWARD G. SCHATTLE, Auburn, N. Y. Filed July 29, 1919. Serial No. 314,094. 2 Claims. (Cl. 173—335.)



1. A cluster lamp socket, comprising, a unitary molded body portion formed with a plurality of socket openings connected at the inner ends with a recess opening through the top, a unitary metal member arranged in said recess having branch arms extending to each of said sockets, a threaded plug shell having a connection member rigidly secured thereto and extending into the recess in said body, socket shells arranged in said socket recesses and rigidly connected to the member secured to said plug shell, a plug arranged in said plug shell recessed to receive the plug shell connection, an electrical connection extending centrally through said plug and secured to the unitary metal member, and central socket contacts secured in the extremities of the arms of the unitary member.

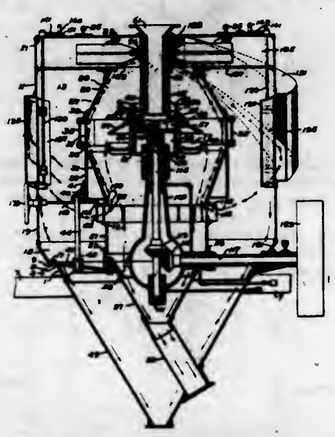
1,385,845. STEAM-GENERATING SYSTEM. LEWIS L. SCOTT, St. Louis, Mo., assignor to Standard Engineering Company, St. Louis, Mo., a Corporation. Filed Feb. 8, 1918. Serial No. 216,024. 30 Claims. (Cl. 122—448.)



1. In an apparatus for generating steam, a steam generator, means for supplying liquid to the generator, means for supplying a fuel mixture for heating the generator, an electrical device for igniting said fuel mixture, and means for initiating the functions of the liquid and fuel supply means and the device for igniting the fuel mixture from a single source of control.

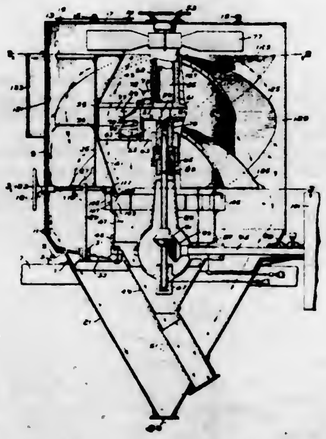
1,385,846. AIR-SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 7, 1919. Serial No. 329,094. 20 Claims. (Cl. 83—40.)

1. An air separator, comprising in combination, a casing having therein an inner chamber and a divided outer chamber communicating with the inner chamber, a fan in one of the divided outer chambers for circulating the air current up through the inner chamber, means to introduce materials to be graded into the inner chamber in the path of said air current, and spiral guide means leading from the fan containing chamber to the other outer chamber to direct the air current from the fan into the latter cham-



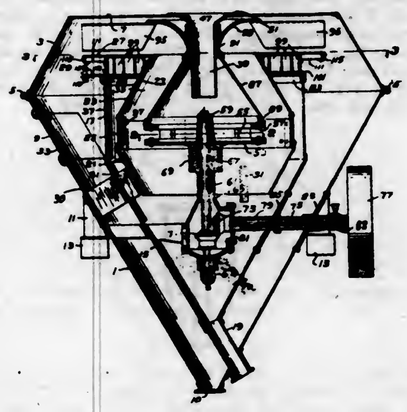
ber while the air current continues its general whirling direction, thereby to produce centrifugal force to throw the particles within the air current outward away from the air entrance to the inner chamber.

1,385,847. AIR-SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 17, 1919. Serial No. 338,622. 6 Claims. (Cl. 83—40.)



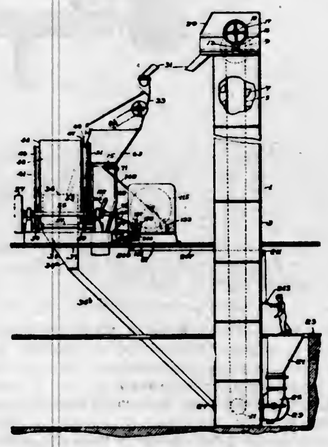
2. An air separator, comprising, in combination, a casing having communicating outer and inner chambers, a fan in the upper part of the casing for producing a rising air current in the inner chamber and a downward air current in the outer chamber, means to introduce materials to be graded in the path of the rising air current in the inner chamber, and spiral means in the outer chamber for directing the whirling air current produced by the fan downward within the outer chamber, thereby to throw the lighter particles by centrifugal force away from the communication between the chambers, said spiral guide means having their upper ends positioned in close proximity to the fan.

1,385,848. AIR-SEPARATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 14, 1920. Serial No. 351,403. 10 Claims. (Cl. 83—40.)



1. An air separator for grading materials, comprising, in combination, a casing having outer and inner chambers therein, a fan for causing an air current to circulate through said chambers, means to introduce materials to be graded in the path of the air current, said chambers having an opening between them, valve means for controlling the passage of air through said opening comprising a pair of relatively movable supports, a series of vanes pivotally mounted on the movable support, a series of links pivotally connected to said vanes and the other support, and means to adjust the vane carrying support bodily to move the vanes and vary the opening afforded thereby.

1,385,849. MACHINE FOR MIXING MATERIALS. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 18, 1921. Serial No. 453,282. 38 Claims. (Cl. 83—73.)



1. A machine of the character described, comprising, in combination, a rotary mixer having elements therein for mixing materials, a fixed chute in said mixer, valve means movable to admit materials into the mixer and movable to deliver materials from the fixed chute out of the mixer, and means automatically to move said valve means to said positions.

1,385,850. RAILWAY-BRAKE HANGER. J. MILLS SUMMERS, Pittsburgh, Pa. Filed Feb. 24, 1920. Serial No. 360,590. 6 Claims. (Cl. 188—211.)



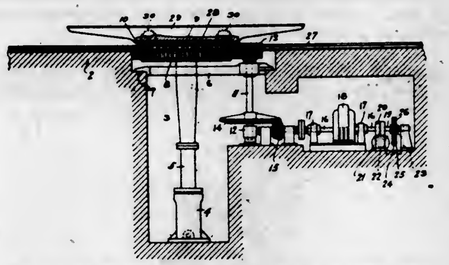
1. A railway brake hanger comprising spaced side arms of a predetermined cross sectional area, and a transverse arm formed integral with and connecting said side arms, said transverse arm being formed of a substantially enlarged cross sectional area forming the entire bends of the hanger and extending at substantially said enlarged cross sectional area into the aforesaid side arms.

1,385,851. RAILWAY BRAKE-HANGER. J. MILLS SUMMERS, Pittsburgh, Pa. Filed Feb. 24, 1920. Serial No. 417,733. 8 Claims. (Cl. 188—215.)



1. A railway brake hanger comprising spaced side arms and an integrally ribbed beam section connecting the side arms, said beam section having relatively large upper and lower curved bearing surfaces for supporting a brake head.

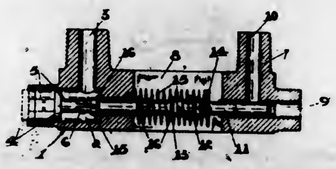
1,385,852. MECHANISM FOR SHIFTING PLATE-GLASS-GRINDING TABLES. FRANK E. TROUTMAN, Butler, Pa. Filed Feb. 13, 1920. Serial No. 358,332. 1 Claim. (Cl. 51—240.)



In apparatus for shifting plate glass grinding tables, the combination of a suitable track, a grinding table, wheels on said table adapted to engage said track, means for disengaging said wheels from said track, a high-power electric motor, a shaft driven thereby at relatively high speed, connections between said shaft and said table for rotating same, a low power electric motor, a shaft driven thereby at relatively low speed, and a magnetic clutch

between said first-named shaft and said last-named shaft, said clutch being energized when said low power motor is started, whereby when said low-power motor is put into operation said magnetic clutch is automatically operated to connect said shafts when said first-named motor is idle.

1,385,853. AUTOMATIC GAS-VALVE FOR WATER-HEATERS. FREDERICK W. WARNER, Toronto, Ontario, Canada. Filed Oct. 1, 1919. Serial No. 327,657. 3 Claims. (Cl. 236—25.)



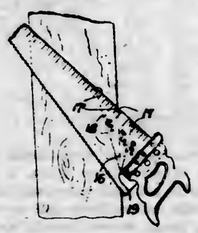
2. An automatic valve comprising oppositely disposed casings a restricted web connecting said casings, one of said casings formed with a cylindrical chamber and inlet and outlet waterways, the other casing formed with gas inlet and outlet passages, a piston movable by water flow through the waterways and being fitted to slide freely in the cylindrical chamber, a piston rod secured to said piston and passing through the inner end of the chamber, a plunger longitudinally slidable in the gas outlet passage, a hinge joint coupling connection between said piston rod and plunger, a washer arranged on said plunger, a spring encircling the connected ends of said piston rod and plunger and having one end connected to said washer, and the opposite end of said spring adapted for engagement with the first mentioned casing adjacent the web of the valve.

1,385,854. PROCESS OF WATERPROOFING. WALTER ALEXANDER, New York, N. Y. Filed Sept. 4, 1918. Serial No. 252,585. 18 Claims. (Cl. 91—70.)

6. In the process of waterproofing a fluid-penetrable body, the steps consisting in simultaneously applying in substantially fluid form two components adapted separately to penetrate said body and to interact within the body to form a waterproofing compound and thereafter promoting the interaction.

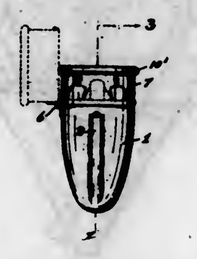
10. In the process of waterproofing, the improvement which consists in applying the two components of the effective waterproofing compound one of which contains a metal adapted to produce a water-repellent metallic soap, and the other of which contains an organic acid adapted to produce with a heavy metal a water-repellent soap simultaneously in aqueous dispersion and in substantially fluid form and thereafter causing the fixation of them together with the body to be waterproofed by action of a suitable electrolyte.

1,385,855. COMBINATION-SAW. EDWARD BALOD, New York, N. Y. Filed Jan. 25, 1921. Serial No. 439,722. 4 Claims. (Cl. 7—13.)



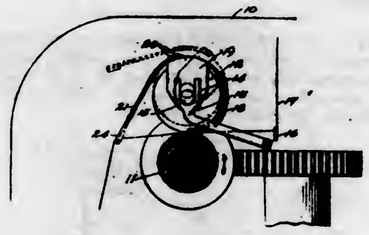
1. A tool involving a saw blade, a handle affixed thereto and provided with a lateral surface at right angles to the rear edge of the blade, and a line upon a face of the blade forming one face of an angle extending from a point on the rear edge of the blade to the lower corner of the handle.

1,385,856. POWDER AND ROUGE CONTAINER. ROBERT Y. BARROWS, Rutherford, N. J., assignor, by direct and mesne assignments, of one-half to George H. Harman, Inc., a Corporation of New Jersey, and one-half to Robert Y. Barrows, Inc., a Corporation of New York. Filed Aug. 13, 1920. Serial No. 403,383. 6 Claims. (Cl. 132—83.)



1. A container for powder and rouge compacts providing a single vertical compartment, means for retaining the compacts in central vertical back to back disposition within said compartment, and spaced from the side walls thereof to provide vertical puff receiving spaces adjacent to each compact.

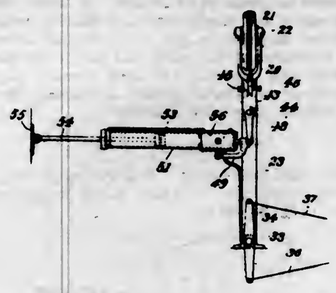
1,385,857. STOP-MOTION FOR TWISTING-MACHINES. ALFRED BLOSS BELHUMEUR, Woonsocket, R. I. Filed Oct. 27, 1920. Serial No. 420,006. 2 Claims. (Cl. 19—25.)



1. In a machine of the kind described, having a fixed lower roll and an upper roll journaled for vertical movement to and from the lower roll, a lifting device for the upper roll consisting of an arcuate plate provided with inwardly extending ears journaled on the upper roll, and an arm attached to said arcuate plate and provided with an eye at its free end, said arm and plate being arranged to lie on opposite sides of said roll.

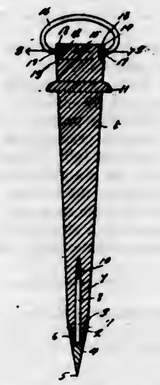
1,385,858. CONTROL FOR AERIAL MACHINES. ARTHUR F. BLASIAR, Guilford, N. Y., assignor, by mesne assignments, of forty-nine per cent. to William Bohleber, New York, N. Y. Filed Apr. 20, 1917. Serial No. 163,361. Renewed June 14, 1921. Serial No. 477,602. 14 Claims. (Cl. 244—29.)

8. A control for flying machines comprising an actuating means provided with valve mechanism thereon, in combination with means connected to a part of the machine to be controlled and adapted to be actuated by the actuating means, manually movable means for actuating said valve mechanism, and means on said manual means



for operating said actuating means upon the failure of the operation of the automatic means.

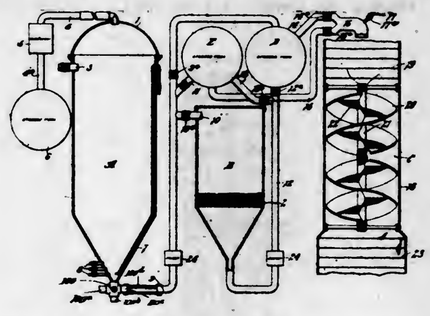
1,385,859. TETHERING PIN OR STAKE. BERNARD MCAULEY BRADFORD and JOSEPH FRANCES LE GERE, Hope Mills, N. C. Filed Feb. 21, 1918. Serial No. 218,595. 1 Claim. (Cl. 119—121.)



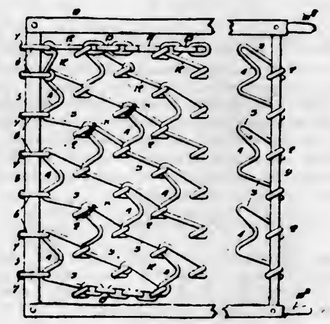
In a loop for a tethering pin, the combination with a tethering pin, the combination with a tethering pin body provided with a reduced cylindrical portion at one end, of a band fitting said reduced portion, means for securing the band to the reduced portion, said band having diametrically disposed openings, a semi-circular loop having its body portion concentric with the outer face of the band, thereby being equally spaced from said band throughout its length, the opposite ends of said loop being loosely fitted in said openings, said semicircular loop having its ends curved to its pivotal point whereby as an animal walks around the tethering pin a line secured to said loop will slide from one end of the loop to the other and pivot the lop from one side to the other thereby preventing the tethering line from becoming wound around the tethering pin.

1,385,860. APPARATUS FOR MAKING MOTOR-FUELS. WILLIAM E. CHENOT, Belleville, Ill. Filed Feb. 26, 1917. Serial No. 151,055. 3 Claims. (Cl. 259—9.)

1. In an apparatus for making motor fuels, a saturator comprising a vertically-disposed, tubular shell adapted to have liquid introduced into the upper end of same, a plurality of rotatable devices in said shell arranged one above the other and provided with spiral blades so that said devices will be revolved in opposite directions by the passage of the liquid through the shell, and screens arranged so that the liquid will pass through same before striking said rotatable devices.

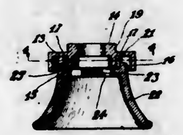


1,385,861. HARROW. JAMES YOUNG MCLACHLANE COMRIE, Runciman, Auckland, New Zealand. Filed Apr. 2, 1920. Serial No. 370,854. 4 Claims. (Cl. 55—32.)



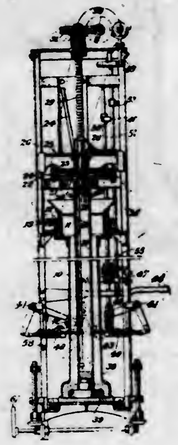
1. A harrow composed of sections, having tines projecting therefrom; springs at the upper ends of the tines; arms approximately parallel to each other extending forward from said springs; and rearwardly bent cross portions connecting said arms.

1,385,862. TELEPHONE-MOUTHPIECE. VAN CONOMOS, Blairsville, Pa. Filed May 25, 1921. Serial No. 472,332. 4 Claims. (Cl. 179—187.)



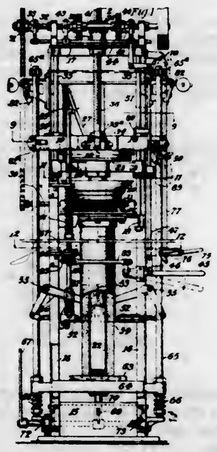
1. A mouthpiece for telephones, comprising a holder provided with transmitter engaging means, spaced flanges extending from said holder to form an annular groove, securing means outwardly extending from one of said flanges, and a flexible mouthpiece having its end projecting into said annular groove and detachably engaged with said securing means.

1,385,863. METHOD AND MACHINE FOR MAKING CEMENTITIOUS PRODUCTS. ALFRED OWEN CROZIER, New York, N. Y. Filed Apr. 12, 1920. Serial No. 373,064. 33 Claims. (Cl. 25—30.)



1. In a machine for making hollow concrete articles, in combination, an element comprising an upright hollow shaft like member or container for an unset cementitious column, an element comprising a core arranged vertically in said sleeve like member whereby the cementitious column is given a tubular form, means for raising and lowering one of said elements relatively to the column; means for rotating one of said elements relatively to the column for troweling the surface thereof; and means for severing the lower portion of the column.

1,385,864. MACHINE AND METHOD OF MAKING CEMENTITIOUS PRODUCTS. ALFRED OWEN CROZIER, New York, N. Y. Filed Apr. 12, 1920. Serial No. 373,065. 14 Claims. (Cl. 25—30.)



1. In a machine for making hollow concrete articles, in which such articles are formed by removing successive sections from the lower portion of an intermittently descending unset cementitious column of tubular form maintained between inner and outer upright elements, in combination, an outer shaft element, an inner core element, a pallet for supporting said tubular column of cementitious material, means for effecting a relative vertical movement of the pallet and one of the elements and concurrently lowering the other element to permit the descent of the tubular column, and means for severing the column after such descent.

1,385,865. BELT-BUCKLE. JOSEPH CZERWINSKI, Chicago, Ill. Filed Apr. 11, 1921. Serial No. 460,348. 6 Claims. (Cl. 24—191.)

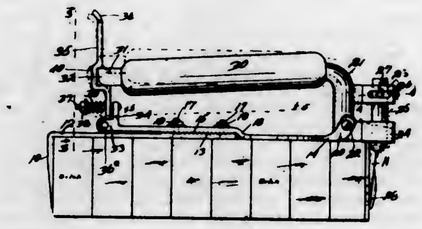


1. In a buckle, an elastic housing, a clamping lever pivotally mounted in said housing, and lugs on said housing yieldingly engaging said lever whereby the accidental displacement of said lever from clasping position is prevented.

1,385,866. PRODUCTION OF ACETONE BY DISTILLATION OF SODIUM ACETATE, &c. VIGGO DREWSEN, Brooklyn, N. Y. Filed Sept. 8, 1916. Serial No. 118,981. 8 Claims. (Cl. 23—24.)

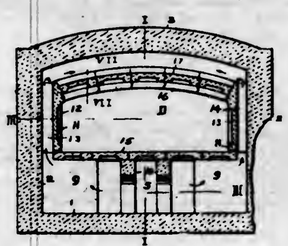
1. The process of distilling sodium acetate to produce acetone comprising melting crystallized sodium acetate and heating the same to about 100° C., incorporating therewith about one-third of its weight of powdered caustic magnesian lime to dehydrate the acetate to whitish powder and dry distilling the same at about 300° to 400° C. in the presence of superheated steam to secure a yield of acetone at least equaling substantially 95% of the theoretical yield.

1,385,867. BRICK-CARRIER. HARRY E. FULLER, Newhall, Iowa. Filed July 9, 1920. Serial No. 394,877. 3 Claims. (Cl. 294—62.)



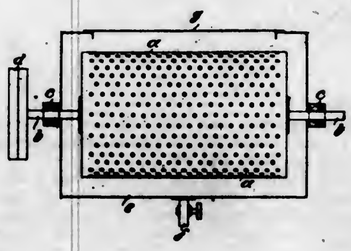
1. A brick carrier comprising a pair of brick engaging members, one of said members being pivoted relative to the other, said last brick engaging member being capable of slight pivotal movement on a vertical axis, a handle arranged above and between said members and mounted on one of said members, a latch device mounted on said last member adapted to engage one end of said handle for locking the brick engaging members against movement.

1,385,868. MUFFLE-LEER CONSTRUCTION. PAUL L. GEER, Bellevue borough, Pa., assignor to Amsler-Morton Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 25, 1919, Serial No. 340,468. Renewed Oct. 7, 1920. Serial No. 415,376. 20 Claims. (Cl. 263—41.)



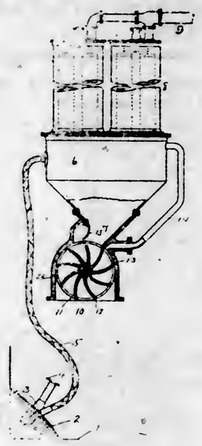
1. A muffle leer comprising an outer furnace structure, an elevated muffle mounted therein, a longitudinal crown flue above the muffle, a combustion chamber under the forward portion of the muffle, a reverberatory chamber under the rear portion of the muffle, a vertical wall separating said chambers, a baffle wall intersecting the crown flue above the reverberatory chamber, a series of vertical flues on either side of the muffle connecting the combustion chamber with the crown flue; a second series of vertical flues at either side of the muffle, and in rear of said first named flues, connecting the crown flue in front of the baffle wall with the reverberatory chamber, a third series of vertical flues, in the rear of said second named flues, connecting the reverberatory chamber with the crown flue in the rear of the baffle wall, and means for leading off the products of combustion from the rear end of the crown flue, whereby the products of combustion ascend from said combustion chamber about said muffle to the crown flue, thence descend from said crown flue about said muffle to said reverberatory chamber, and thence ascend from said reverberatory chamber about said muffle to the crown flue in the rear of said baffle wall.

1,385,869. REGENERATION OF OLD OR WASTE RUBBER. CONSTANTIN GEORGI, Zehlendorf, near Berlin, Germany, assignor to Vandivere B. Moler, Yonkers, N. Y. Filed July 6, 1920. Serial No. 394,398. 4 Claims. (Cl. 18—52.)



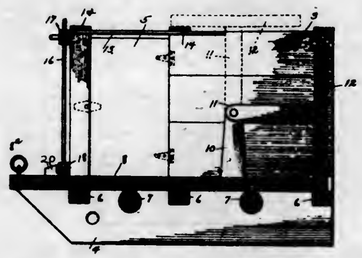
1. The method of treating old or waste rubber having incorporated fibrous material which consists in placing the rubber in its original condition in a closed vessel containing a solvent and moving the said waste rubber in the solvent at a moderate temperature under pressure so as to extract the rubber from the fibrous material.

1,385,870. PNEUMATIC CONVEYING. GEORGE A. GIESELER, Cleveland, Ohio. Filed July 5, 1919. Serial No. 308,725. 4 Claims. (Cl. 130—17.)



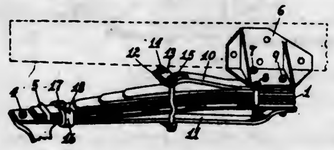
2. In a pneumatic conveying device, a receiver for material having an outlet, a rotary air lock at the outlet for delivering material, and a spring in the outlet coöperating with the lock to handle such irregularities as lumps.

1,385,871. HOG-BOX. ALFRED HIDY, Jeffersonville, Ohio, assignor of one-half to John H. Hidy, Urbana, Ohio. Filed Oct. 27, 1919. Serial No. 333,444. 2 Claims. (Cl. 119—99.)



1. In a structure of the character described, a floor, side walls, a top partially covering said structure but leaving the rear thereof open, and a pivoted end gate arranged to swing upwardly and aline itself with said top to close the open portion of said structure.

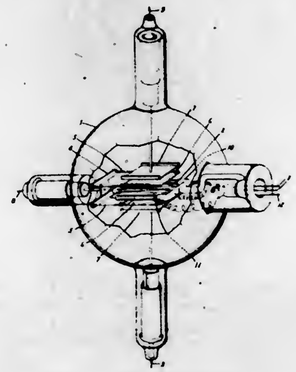
1,385,872. SHOCK-ABSORBER. HOUSTON P. HOOD, San Francisco, Calif. Filed July 19, 1920. Serial No. 397,411. 4 Claims. (Cl. 267—41.)



2. A cantaliver spring shock absorber comprising a cantaliver spring, a supplementary spring member rigidly

connected to the cantaliver spring at its thickest portion, and extending toward the thinner end of the cantaliver spring at a distance therefrom, a yoke bearing upon the supplementary spring to pass over the cantaliver spring, and means to hold the yoke in a fixed position with respect to the cantaliver spring.

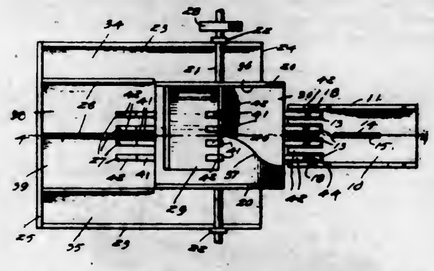
1,385,873. ELECTRON-DISCHARGE APPARATUS. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed June 5, 1916. Serial No. 101,729. 33 Claims. (Cl. 250—27.)



1. The combination in an apparatus of the class described of an evacuated receptacle containing an electron emitting cathode, an anode, a third electrode and a discharge controlling member, means for producing an emission of secondary electrons from the third electrode sufficient in value to produce a negative resistance characteristic between cathode and third electrode, and means for applying a variable potential to the discharge controlling member to vary the number of secondary electrons emitted from the third electrode.
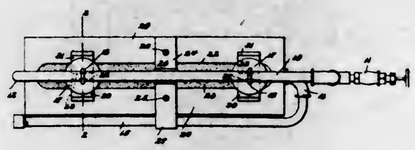
13. The combination in an apparatus of the type described of an evacuated envelop having therein a discharge controlling member, a filamentary cathode, an anode and a third electrode, said anode being located between said third electrode and said cathode, and said cathode being located between said anode and said discharge controlling member.

1,385,874. PICK-UP AND SEPARATING MACHINE. GRANVILLE I. KOHR, York, Pa. Filed Mar. 16, 1920. Serial No. 366,442. 10 Claims. (Cl. 193—1.)



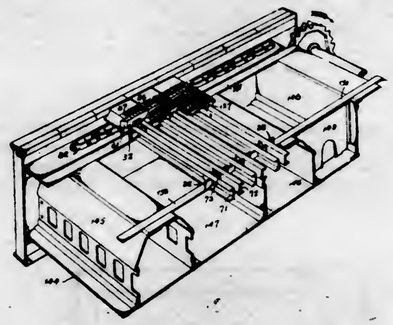
1. A pick-up and separating machine comprising a main feed chute, an operating table divided into separate compartments, means for picking up articles from said main feed chute, a solid rotatable drum, said last mentioned means being carried by said solid rotatable drum, said solid rotatable drum having pockets to receive said articles, said pockets having discharge openings to deliver said articles to the separate compartments of said operating table, and means for rotating said rotatable means.

1,385,875. BURNER. ALBERT R. KUNKEL, San Antonio, Tex. Filed Aug. 17, 1920. Serial No. 404,196. 3 Claims. (Cl. 158—63.)



1. In an oil burner the combination with a gas generating portion, of a burner pipe below and connected thereto provided with an upwardly directed discharge opening, a drip pan secured in place and extending horizontally, below said burner pipe and having therein a pair of elongated air passages one on each side of the burner pipe opposite the discharge opening and flattened air tubes extending upwardly from said passages to a higher level than the burner pipe and curved toward each other at their upper ends so as to discharge sheets of air from opposite sides directly across the jet issuing from said burner opening.

1,385,876. TRAVELING GRATE. WILLIAM LLOYD, Hazleton, Pa., assignor to Coxe Traveling Grate Company, Port Carbon, Pa., a Corporation of Pennsylvania. Filed Jan. 25, 1918. Serial No. 213,784. 21 Claims. (Cl. 110—40.)

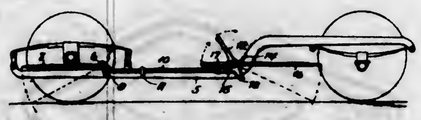


1. In a traveling grate, a grate bar having an end block, a bank of keys and an air seal key interposed between said end block and key bank.

10. In a traveling grate, a grate bar and a key bank supported thereon comprising as an element thereof a key having transverse channels in its fuel supporting surface, a web underlying the latter and recessed on opposite sides of the key to afford air passages, together with lateral studs alined with the channels in the fuel surface of the key and projecting into said air passages to prevent the direct flow of air into said channels.

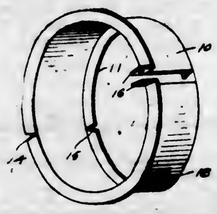
14. In a traveling grate, a grate bar having a structural metal mid-section for carrying a key bank, together with brackets secured to said mid-section and forming sealing ribs extending in the direction of the travel of the grate.

1,385,877. EMERGENCY-BRAKE FOR VEHICLES. CATHARINE LETTIE MCDONALD, Caldwell, Ohio. Filed Feb. 10, 1920. Serial No. 357,641. 4 Claims. (Cl. 188—6.)



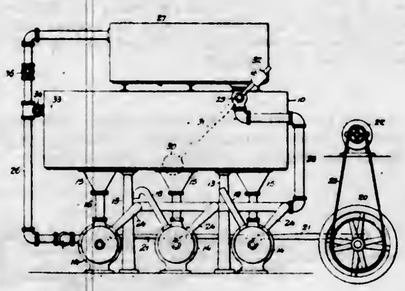
1. In an emergency brake for vehicles, the combination of the underframe of the vehicle, two shafts pivotally mounted thereon one having arms projecting forwardly and the other having arms projecting rearwardly the free ends of said arms adapted when in operative position to engage the road bed and act as a chock for the vehicle, and independent means for actuating the said shafts to lower and raise the said arms, the actuating means for the rear arms having a loose connection with the latter whereby said arms are free to trail and ride over the surface of road when the machine is moving forwardly.

1,385,878. CLAMP-BELT GUIDE. JOHN MARTIN, Amorita, Okla. Filed Feb. 17, 1921. Serial No. 445,725. 2 Claims. (Cl. 64—17.)



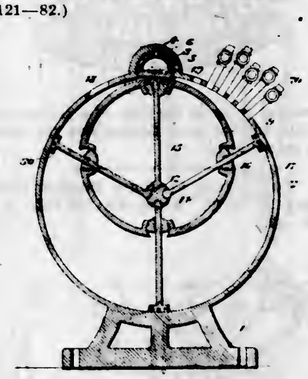
1. A belt guide clamp for drive pulleys having a band provided at its opposite side edges with inwardly and outwardly directed flanges, split to permit of conforming to the contour of the pulley, the exterior flange having terminal deflected wings for engagement by a securing bolt.

1,385,879. WAVE-MOTOR. SHAVERKSHA D. MASTER, Bombay, India. Filed Dec. 18, 1920. Serial No. 431,638. 3 Claims. (Cl. 61—20.)



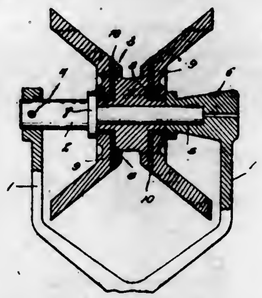
1. A wave motor comprising a main water supply tank, valve controlled water inlets therefor, spaced parallel rows of turbines communicating with said tank and with each other, parallel reciprocating rods connecting said turbines, an auxiliary tank, pipes for conveying water from one row of turbines to said auxiliary tank, valve controlling said communication, and valve controlled means for conveying water from the auxiliary tank to the adjacent row of said turbines.

1,385,880. ROTARY ENGINE. SHAVERKSHA D. MASTER, Bombay, India. Filed July 11, 1919, Serial No. 310,037. Renewed Dec. 27, 1920. Serial No. 433,427. 5 Claims. (Cl. 121—82.)



1. In a rotary engine, the combination of a circular casing, a circular piston body disposed eccentrically in the casing, a housing in communication with the casing in close proximity to the perimeter of the piston body and having a filling aperture for lubricant, and an oscillatory hollow abutment opposed to the perimeter of the piston body and adapted to lubricate the same and having an aperture in registration with the first-named aperture.

1,385,881. TROLLEY-WHEEL. SHAVERKSHA D. MASTER, Bombay, India. Filed July 2, 1920, Serial No. 393,771. Renewed June 10, 1921. Serial No. 476,608. 1 Claim. (Cl. 191—76.)

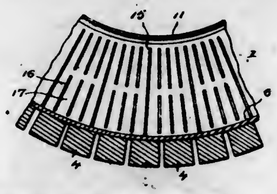


In combination with a trolley harp, a wheel having annular recesses in its sides, a pair of star-shaped replacer wheels having their hubs engaging said recesses, the spokes of the wheels inclining outwardly, an axle for supporting the trolley wheel and shoulders formed on the axle and harp for holding the replacer wheels on the trolley wheel.

1,385,882. TIRE. SHAVERKSHA D. MASTER, Bombay, India. Filed July 11, 1919, Serial No. 310,034. Renewed June 11, 1921. Serial No. 476,966. 3 Claims. (Cl. 152—16.)

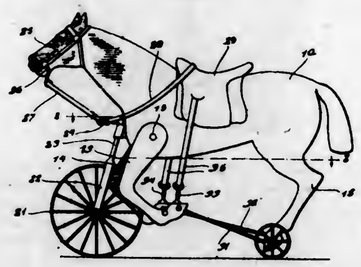
1. A tread member for tires comprising a metallic backing, and spaced apart metallic blocks arranged trans-

versely at the outer side of and fixed to said backing and each block having inturned flanges at its ends; the said



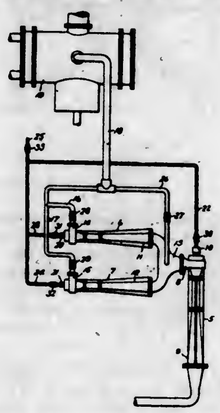
metallic backing being in the form of a transeversely corrugated plate and therefore flexible, and the said flanges being also spaced apart.

1,385,883. TOY. DAVID FLETCHER MORGAN, Atlanta, Ga. Filed May 21, 1920. Serial No. 383,152. 4 Claims. (Cl. 208—42.)



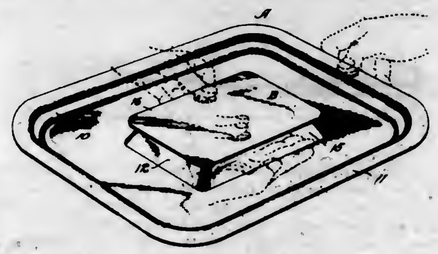
1. In a device of the class described, a body portion, legs permanently connected therewith, rotatable elements on which said legs are mounted, pivoted legs connected with the body portion, means for imparting movement to the pivoted legs when the device is moved forwardly over the surface of the ground, and a guiding device connected with said body portion, and resilient means for restoring the guiding device to normal position when operated.

1,385,884. EJECTOR-FLUID-PUMP. SANFORD A. MOSS, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 8, 1919. Serial No. 329,378. 5 Claims. (Cl. 230—13.)



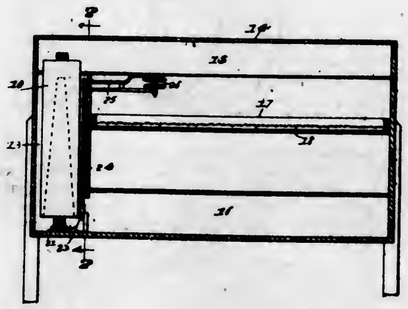
1. In an ejector fluid pump, a last stage ejector, and a plurality of earlier stage ejectors connected in parallel to each other and in series with said last stage ejector.

1,385,885. COIN-HANDLING DEVICE. JOHN BRUCE NORRIS, San Francisco, Calif. Filed May 3, 1920. Serial No. 378,472. 1 Claim. (Cl. 133—12.)



In a coin handling device, a tray having its marginal portion curved outwardly and upwardly and terminating in a relatively extensive outwardly directed flat horizontal portion, a stand fixed centrally on the tray and including side portions, and a continuous flat top fixed to the side portions and extending outwardly beyond the upper edges thereof.

1,385,886. HOT-WATER ELECTRIC INCUBATOR. JAMES L. NUNGESTER, Pocatello, Idaho, assignor to Nungester Hot Water Electric Incubator Company, a Corporation of Idaho. Filed Jan. 3, 1920. Serial No. 349,230. 4 Claims. (Cl. 219—19.)



1. A heating apparatus for the purpose indicated having a heating unit and a heat equalizing and distributing member defining a chamber housing the heating unit and having fluid contained walls interposed between said unit and the space to be heated.

1,385,887. ELECTRIC RETOUCHER. VICENTE A. RACAZA, Cebu, Philippine Islands. Filed May 20, 1920. Serial No. 382,842. 4 Claims. (Cl. 95—101.)



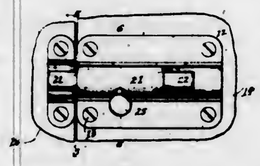
1. An electric retoucher comprising a casing having open ends and offset intermediate portion, an electromagnet mounted in said offset intermediate portion and insulated from the casing, a cap for closing one end of said

casing, an armature to be attracted by said magnet, resilient supporting means for the armature carried by said cap, and a lead carrying member carried by said armature.

1,385,888. MANUFACTURE OF ACETONE. ELOI RICARD, Melle, France. Filed June 7, 1918. Serial No. 238,730. 5 Claims. (Cl. 23—24.)

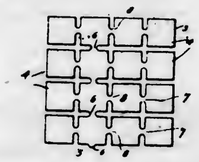
1. A process for the manufacture of acetone and butyl alcohol by fermentation of carbohydrate material wherein the wort is fermented by a bacillus existing in organic residual animal products, identified by its having the form of a cylindrical stick with a rounded end, by its dimensions, and by its property of rapid formation of spores.

1,385,889. LOCK. CHARLES B. ROBERTS, Berkeley, Calif. Filed Oct. 30, 1920. Serial No. 420,702. 2 Claims. (Cl. 292—57.)



1. In a door, the combination with a cylindrical keeper plate adapted for attachment to a door jamb, of a bolt including a main body portion having integrally formed therewith eccentrically mounted extremities, means secured to the door and adapted to receive said bolt therein, and a knob secured to said bolt and adapted upon rotary movement to cause one of the extremities thereof to contact with the inner periphery of said cylindrical keeper plate.

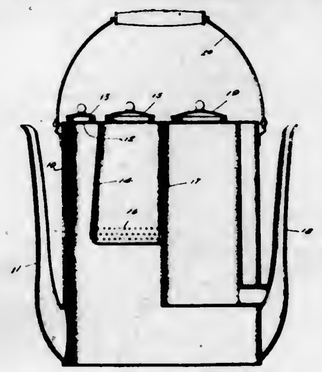
1,385,890. ARMOR-RELINER FOR TIRES. SEYMOUR A. ROUSE and HANS C. STOCKEL, Chicago, Ill. Filed Apr. 14, 1920. Serial No. 373,805. 2 Claims. (Cl.152—18.)



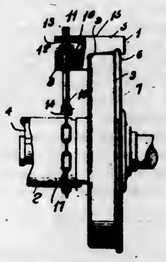
1. An armor for tires comprising a pad, plates embedded in said pad and each including rows of square disks, tongues connecting some of said disk longitudinally, tongues connecting other of said disks transversely, said tongues having their medial portions reduced in width so that when broken they will break at their medial portions and remain attached to the disks.

1,385,891. COFFEE-POT. BARNET RUBIN, Philadelphia, Pa. Filed June 13, 1921. Serial No. 477,239. 2 Claims. (Cl. 53—3.)

1. A coffee pot including a spout, a coffee receptacle arranged within the pot and having perforations, a milk receptacle arranged within the pot, a spout arranged at one side of the pot and communicating with the milk receptacles, and said coffee and milk receptacle being spaced from the wall of the pot for the purpose specified.

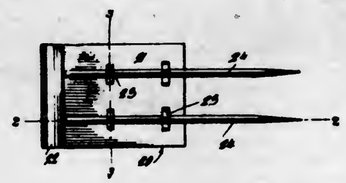


1,385,892. JOURNAL-BOX JACK. GUY W. RUTLEDGE, Huron, S. D. Filed Mar. 1, 1918. Serial No. 219,897. 3 Claims. (Cl. 254—83.)



1. A journal box jack comprising a bracket, a lifting member adjustably mounted in the bracket and operably and selectively extensible beyond opposite faces thereof, said bracket being reversible and one of the said faces being engageable with a car wheel and the other face being engageable with a support auxiliary to the car wheel.

1,385,893. CANDY-LIFTER. GEORGE H. SCHMAND, Little Rock, Ark. Filed Jan. 10, 1920. Serial No. 350,604. 7 Claims. (Cl. 107—47.)



6. A candy handling device comprising a supporting member having a plurality of stirrups struck therefrom to removably receive a plurality of sticks or pins which are adapted to be permanently attached to candies.

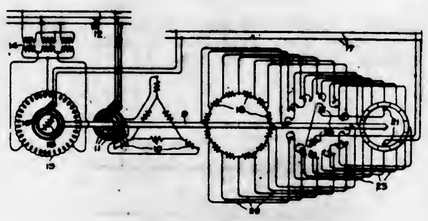
7. A candy handling device comprising a flat plate having means for removably retaining a plurality of sticks in approximately the same plane therewith.

1,385,894. CONNECTING-ROD. EDWARD R. SCHNELLE, Pavo, Ga. Filed Dec. 16, 1919. Serial No. 345,358. 1 Claim. (Cl. 287—94.)



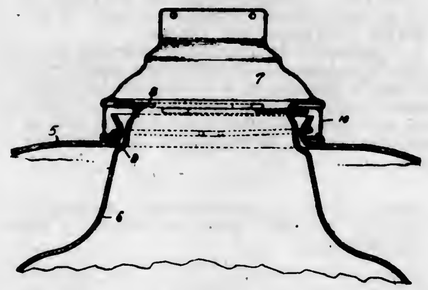
A connecting rod comprising a body, means at one end of the body to receive a wrist pin, a bearing section formed on the other end of the body and having an opening in one end, a movable bearing section having one end hinged to the first bearing section, a screw threaded rod slidably secured to the body and extending through the opening and pivoted to the free end of the movable bearing section, torsion and adjusting nuts threaded on said rod and the latter bearing against the first named section, a coil spring surrounding said rod and secured to the nuts and adapted to rotate the adjusting nut on said rod when wear occurs in the bearing sections, and means for locking the torsion nut against accidental rotation.

1,385,895. ELECTRICITY TRANSFORMING AND CONVERTING APPARATUS. CHARLES W. STONE and HENRY M. HOBART, Schenectady, N. Y., assignors to General Electric Company, a Corporation of New York. Filed Sept. 6, 1916. Serial No. 118,636. 9 Claims. (Cl. 171—123.)



2. An electricity transforming and converting apparatus comprising a rotatable shaft, a phase multiplying transformer having primary and secondary windings, the secondary winding of said transformer being carried by said shaft, a commutator carried by said shaft, and electrically connected to the secondary winding of said transformer whereby said commutator and said secondary winding rotate as a unit, and independently energized means for rotating said shaft.

1,385,896. SHADE-HOLDER. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 16, 1920. Serial No. 366,298. 3 Claims. (Cl. 240—115.)



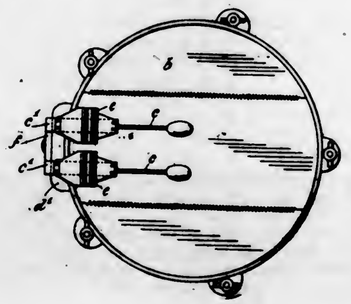
1. A shade holder comprising a plurality of spaced, contractile spring rings of substantially the same diameter, and reducing plates secured to one of said rings and projecting inwardly therefrom to afford a shade support of less diameter than the ring.

1,385,897. DEVICE FOR DECAPPING ARMOR-PIERCING SHELLS. TOLMIE JOHN TRESIDDER, Upper Norwood, London, England. Filed Nov. 19, 1918. Serial No. 263,215. 2 Claims. (Cl. 114—9.) (Granted under the provisions of the act of Mar. 3, 1921. 41 Stat. L., 1313.)



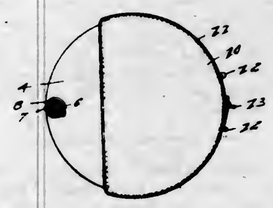
1. In a protective device, the combination of a face hardened plate of armor and a shell-decapping device secured over the face of said armor plate, said decapping device being of very tough and strong metal and being in the form of lattice work.

1,385,898. MUSICAL INSTRUMENT OPERATED BY PERCUSSION. VIOLET ANGYAL, Balham, London, England. Filed Dec. 15, 1919. Serial No. 344,960. 3 Claims. (Cl. 84—10.)



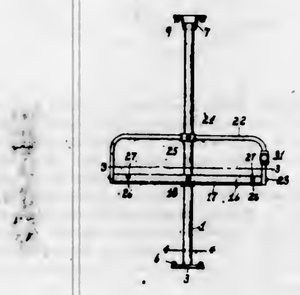
2. The combination with a musical instrument, of flexible percussive sticks for operating said instrument, said percussive sticks carrying means at their outer ends for striking said instrument and at their inner end being attached to inherently rigid resiliently mounted connecting-pieces, and means for operating said sticks.

1,385,899. STRAINER-STRETCHER. JOHN T. BARKER, Lexington, Ky. Filed Dec. 15, 1916. Serial No. 137,142. 1 Claim. (Cl. 24—256.)



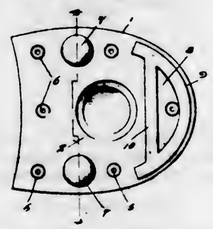
A stretcher for strainers for receptacles having a top of semi-circular form comprising a wire bent in semi-circular form with its free ends midway of the circular portion, a plurality of radially outward crimps on one of the ends and a socket for the crimps on the other end, the socket terminating in a radial projection.

1,385,900. BUNK. CHARLES J. BRAUN and CARL G. JANSON, Oakland, Calif. Filed July 19, 1920. Serial No. 397,434. 11 Claims. (Cl. 5—60.)



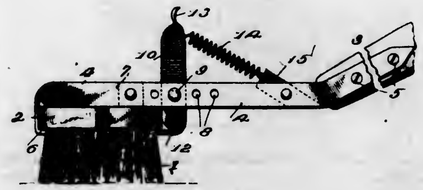
1. A bed of the character as disclosed including a single post at each end of the bed, a horizontal supporting member on each post, for supporting a mattress, and a U-shaped end rail coupled at its ends to the ends of each supporting member and secured to a post for holding the supporting member horizontally.

1,385,901. CUSHION-HEEL. ALFRED BUCOLO, Washington, D. C. Filed Mar. 11, 1921. Serial No. 451,465. 3 Claims. (Cl. 36—59.)



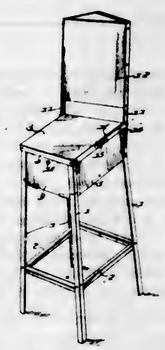
1. As a new article of manufacture, a cushion heel having in its underside a suction chamber closed at its top, and also having pendent projections spaced apart in front of the transverse median line of the heel, and an auxiliary suction chamber disposed in rear of the first-named suction chamber; the said auxiliary suction chamber being formed by pendent curvilinear and cross ribs, and the said projections and ribs being of a common height.

1,385,902. SCRUBBING-BRUSH HOLDER. THOMAS O. BUSSLER, Wheelersburg, Ohio, assignor of one-half to David Bussler, Wheelersburg, Ohio. Filed Apr. 6, 1921. Serial No. 459,036. 3 Claims. (Cl. 15—54.)



1. In a brush holder, a handle, a pair of arms projecting from said handle and terminating in downward extending hooks, a vertically disposed lever fulcrumed between said arms and having a downward projecting hooked extremity, and a spring anchored at one end to a fixed portion of the device and secured at the other end to said lever above its fulcrum point.

1,385,903. BENCH-STOOL. MARSHAL L. COCHRAN, Grand Rapids, Mich. Filed Mar. 26, 1918. Serial No. 224,849. 1 Claim. (Cl. 155—194.)

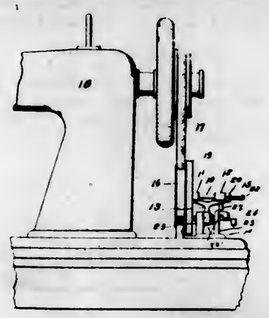


A device of the kind set forth comprising legs made from angle iron, angle iron braces interconnecting the legs near their bottom ends, a plate having depending flanges on its four edges, the plate resting on top of the legs and the flanges being attached thereto, plates positioned just below the aforesaid plate and connected between certain pairs of legs, a still further plate having upturned flanges by means of which it is connected to the latter plates, and a door plate hingedly connected to the last named plate and provided with means for locking engagement with one of the depending flanges of the first named plate.

1,385,904. SEWING-MACHINE ATTACHMENT. JACOB COHEN, Philadelphia, Pa. Filed Aug. 3, 1920. Serial No. 401,023. 2 Claims. (Cl. 51—256.)

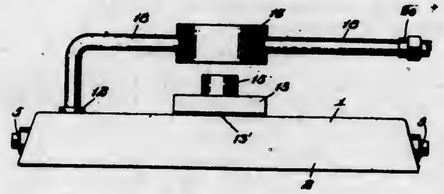
1. An attachment of the class described having a tool, a pulley applicable to a driving medium, a shaft mounting the tool and extending from the pulley, a base, a bracket

bearing for the shaft pivoted on the base, means to urge the bracket bearing away from said medium, and a latch



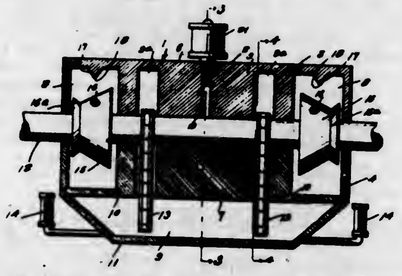
means on said base coöperating with the bracket bearing to maintain the pulley in engagement with said medium against the urgency of said means.

1,385,905. BURNER. LEMUEL P. COULTER, Tacoma, Wash. Filed Nov. 15, 1919. Serial No. 338,245. 2 Claims. (Cl. 158—64.)



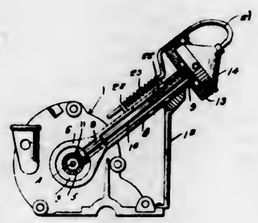
1. In a hydro-carbon burner, a flanged base cast to provide a tube which extends centrally therethrough, means closing the ends of the base, a burner nozzle arranged centrally on the top of the tube and communicating with the bore thereof, the top of the base having a flanged opening surrounding the tube, an air mixer comprising a member arranged over the flange of the opening, spaced therefrom and from the top of the base, said member having a central opening surrounded by an outturned flange, a retort tube disposed above the base having an offset branch communicating with the tube in the base, and a flame spreader on the retort tube disposed directly above the air mixing member.

1,385,906. BEARING. EDWARD H. CRUTCHFIELD and ADOLPHUS F. COVERT, Detroit, Mich. Filed Dec. 12, 1919. Serial No. 344,290. 1 Claim. (Cl. 64—31.)



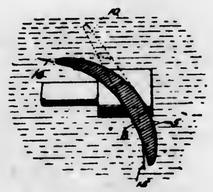
A self-lubricating shaft bearing, the same comprising a casing having an oil well therebelow and in communication therewith, and having end oil chambers above and in communication with the end portions of the said oil well, bearing blocks intermediate the end oil chambers, a shaft journaled in the bearing blocks and in the ends of the casing, means for feeding oil to the shaft from the oil well, transverse ribs at the tops of the end oil chambers forming reinforcements and oil stops, frusto-conical collars on the ends of the shafts in the plane of the respective ribs with their smaller ends facing outwardly, and inwardly flared drip stops at the outer ends of the frusto-conical collars.

1,385,907. ENGINE-TIMER. PHILLIP J. DELL, Jr., Waycross, Ga., assignor to W. J. Gassett, Ware county, Ga. Filed July 8, 1919, Serial No. 309,413. Renewed Dec. 27, 1920. Serial No. 433,521. 1 Claim. (Cl. 123—146.5.)



An attachment for engines including a timing gear cover and a cam shaft, a housing formed on the cover, a tubular member formed on said housing, a timing shaft journaled in said tubular member and housing and connected to the cam shaft, an annular portion formed on the upper end of the tubular member, a timer shell mounted on said annular portion, a contact roller carried by the timing shaft and operating within the shell, spaced apertured lugs formed on the tubular member, a spring actuated locking rod mounted in said lugs and having its free end curved to engage the shell.

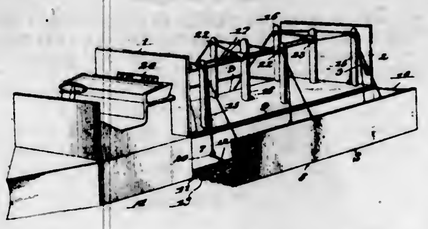
1,385,908. CYCLOID PROPELLER. HENRY H. C. DUNWOODY, Washington, D. C. Filed Nov. 28, 1919. Serial No. 341,049. 3 Claims. (Cl. 170—159.)



1. A propeller blade having a cross sectional area bounded by two cycloidal curves having different centers of curvature and different radii, substantially as described.

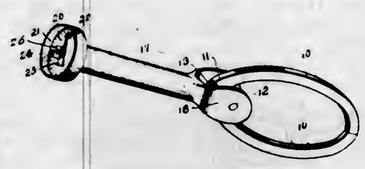
1,385,909. CONVERTIBLE VEHICLE-BODY. FRANK FAILLACE, New York, N. Y. Filed Mar. 15, 1920. Serial No. 365,942. 6 Claims. (Cl. 37—33.)

1. In a device as characterized, a platform, a structure embodying shiftable elements, each of said elements including relatively movable sections, the said elements being shiftable with respect to said platform to constitute a



hollow body therewith, and to constitute shovels at the sides and below said platform.

1,385,910. GRADUATED CALIPERS. GODFREY HUNSLEY FOX, Seattle, Wash. Filed July 20, 1920. Serial No. 397,686. 2 Claims. (Cl. 33—148.)



1. A caliper including two pivotally connected legs having their inner ends headed and provided with teeth, a pinion engaging the teeth, a spring influenced shaft for the pinion, a sleeve inclosing the shaft and having bearings for the pivot which connects the legs of the caliper.

1,385,911. COATING OF SHIP SCREW-SHAFTS. AUGUST FREESE, Dansig, Germany, assignor to Society "Freeses Patent" Eisenschutz und Schraubenwellenbekleidung fur Schiffe G. M. B. H., Charlottenburg, Germany. Filed Jan. 6, 1921. Serial No. 435,548. 1 Claim. (Cl. 134—52.)

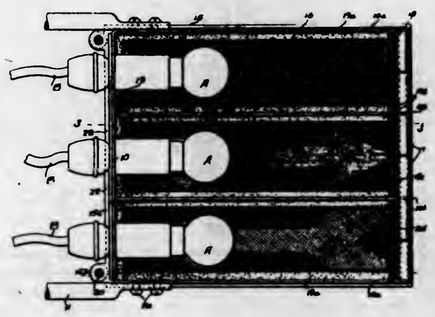
A coating for ship screw shafts comprising a mixture of four parts of minium or red lead and one part of wood tar.

1,385,912. METHOD AND APPARATUS FOR USING DISSIMILAR FILMS. LEÓN GAUMONT, Paris, France. Filed July 24, 1920. Serial No. 398,735. 3 Claims. (Cl. 88—16.)



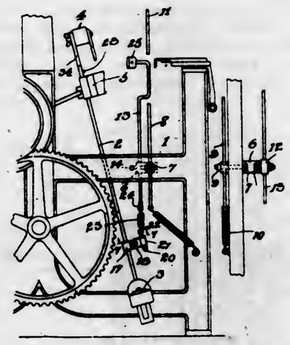
1. A method using related dissimilar films for projection, comprising feeding said films, through appropriate projection machines, controlling the feed of said films so that they have a definite speed relation, and providing each film with opaque portions for a length corresponding to the transparent portion of the other film, whereby the sequence of projections from the films is continuous.

1,385,913. AUTOMOBILE-SIGNAL CASING. SAMUEL GOLDSTEIN, New York, N. Y. Filed Dec. 27, 1920. Serial No. 433,363. 4 Claims. (Cl. 40—132.)



2. An automobile signal casing convergent toward one end and including a frame unit in said casing presenting spaced approximately parallel arms tapering toward said end of the casing to divide the casing into compartments, as well as sides hinged to said frame unit at said end, and bracing and spacing members on said frame unit between the arms thereof at said end and curved transversely into conformity with the hinge means.

1,385,914. FILLING OR THREAD HOLDER FOR LOOMS. GROVER CLEVELAND HARALSON and WILLIAM ERNEST TURNER, Atlanta, Ga. Filed June 30, 1920. Serial No. 393,204. 6 Claims. (Cl. 139—67.)



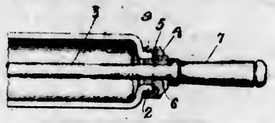
1. A tensioning device, including a loom frame, a clamping member mounted for adjustment thereon, a rod adjustable within the clamping member and means for yieldably connecting the lower end of said rod to the lay of the loom.

1,385,915. SCREWDRIVER. MANUEL HARDEY, San Francisco, Calif. Filed Jan. 5, 1921. Serial No. 435,247. 2 Claims. (Cl. 145—50.)



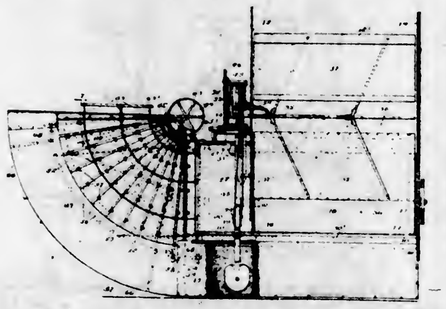
2. A screw driver bit comprising a bit with a slit formed at its end to produce two adjacent bits and a shoulder on each bit against which a screw bears when the two bits are squeezed together to bring them into the slot in the head of the screw.

1,385,916. ROLLING-PIN. WILLIAM HARRIS, Cambridge, Ohio. Filed Dec. 30, 1920. Serial No. 434,079. 8 Claims. (Cl. 107—50.)



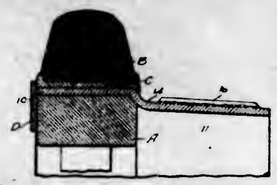
3. A rolling pin including a body member having reduced neck portions, a bearing member removably mounted upon each of said neck portions, said bearing members each having a central opening and an annular groove in one face thereof in spaced relation with the opening to receive the neck portions, a shaft having its ends mounted within said bearings, each of the bearing members having portions of its body disposed between said neck and shaft, and handle members upon the ends of the shaft.

1,385,917. HEMP HARVESTING AND SPREADING MACHINE. LUD HOLLAND-LETZ, Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed May 31, 1917. Serial No. 172,065. 14 Claims. (Cl. 56—182.)



10. In a hemp harvester, cutting mechanism, a conveyer for discharging the hemp from the harvester, and means extending around the delivery lap of said conveyer and downwardly beyond the same for compressing and retaining the same on the conveyer and guiding it as it is discharged.

1,385,918. AUXILIARY TREAD ELEMENT FOR VEHICLE-WHEELS. ERNEST STAFFORD HOWARD, Red Bank, N. J. Filed Jan. 22, 1921. Serial No. 439,134. 1 Claim. (Cl. 301—39.)



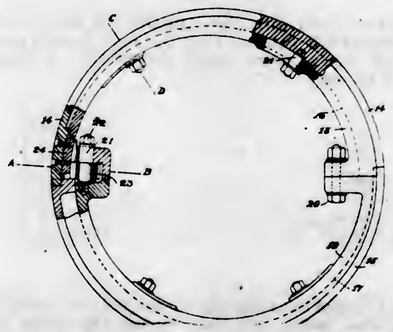
As a new article of manufacture, an attachment for vehicle wheels comprising an annular securing portion adapted to fit over the felly of a wheel, and a lateral annular flange integral with said securing portion and extending laterally at one side of the same to afford an auxiliary tread surface, said annular flange tapering toward its outer end.

1,385,919. SPRING. WILLIAM IRWIN, Irwin, Pa. Filed May 4, 1920. Serial No. 378,840. 1 Claim. (Cl. 267—69.)



A spring construction including a body portion formed of a plurality of coils, the coils tapering toward one end and formed into an eye, and having an extension formed at the opposite end, a hook including a shank having an eye formed intermediate its ends, the last mentioned eye adapted to accommodate the extension, one end of the shank being positioned within the coils of the spring, a hook member disposed in the opposite end of the spring, said hook member having interlocking loops and one end of one of the loops adapted to contact with the inner tapered surface of the body portion to restrict movement of the hook member within the body.

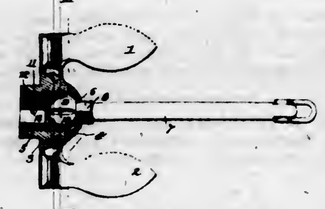
1,385,920. TEMPORARY OR PERMANENT SUPPORT FOR VEHICLE SOLID BAND-TIRES. BENJAMIN LEE and SAM HARRY LEE, Sankey, England. Filed Jan. 31, 1918. Serial No. 214,713. 1 Claim. (Cl. 301—17.)



A tire support comprising a rim having a circular internal periphery, a rotatable one-piece member within said rim

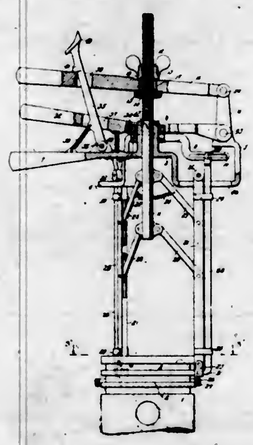
having a circular outer surface capable of expansion, internal partially circular surfaces integral with said member and staggered eccentrically to the center of rotation of the member, a separate abutment ring having external complementary surfaces thereon, circularly disposed, and coöperating means between said rim and said rotatable member to positively displace said member relatively to said rim to cause expansion of the said rotatable member into engagement with said rim.

1,385,921. ANCHOR. ALEXANDER MCNAB, Bridgeport, Conn. Filed Sept. 11, 1920. Serial No. 409,552. 2 Claims. (Cl. 114—208.)



1. In an anchor, the combination of a crown piece having a socket formed therein; a shank; and a substantially spherical head carried by the shank, seated and held in the socket, said head having grooves formed in the outer face thereof.

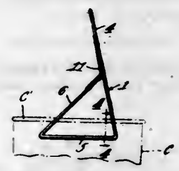
1,385,922. PISTON-RING PLACER. EDISON MCPEEK, Sardis, Ohio. Filed June 15, 1920. Serial No. 389,100. 9 Claims. (Cl. 29—86.4.)



1. A piston ring placer, comprising a radially slotted frame, members movably supported and guided in the slots of the frame, said members adapted to support a piston ring, means for moving the members to expand or permit contraction of the ring, and means for ejecting the ring from the members.

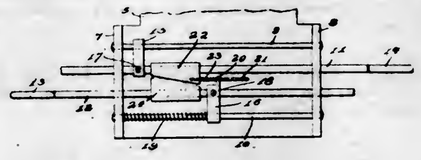
1,385,923. DISPLAY-CARD. WALTER A. MYERS, Burlington, Vt. Filed May 26, 1921. Serial No. 472,832. 2 Claims. (Cl. 40—4.)

1. A display card comprising a strip of cardboard or the like foldable along transverse lines to form an upstanding body portion, an intermediate base portion and an upstanding flap, there being an opening intersecting the base portion and having opposed walls spaced apart a distance



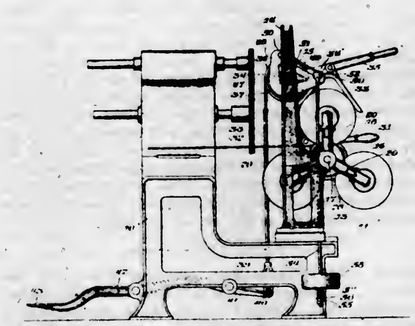
slightly less than the diameter of the article to be engaged by the card, there being extensions of the opening projecting into the body portion and the flap portion of the card and provided with diverging end walls.

1,385,924. PICKER-STAFF CHECK FOR LOOMS. ROGER N. REYNOLDS, Atlanta, Ga., and BENJAMIN D. BALLEW, Greenville, S. C.; said Ballew assignor of one-half of his right to Sidney Baxter, Atlanta, Ga. Filed Dec. 13, 1920. Serial No. 430,381. 5 Claims. (Cl. 133—22.)



2. In a loom, a stop mechanism comprising a supporting means, oppositely movable buffer arms mounted in said supporting means and arranged in the path of the picker staff, and wedge blocks carried by said buffer arms and adapted to come together to prevent the rebound of the arms, substantially as described.

1,385,925. TENSION DEVICE FOR WINDING AND REELING MACHINES. GEORGE L. RICE, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Feb. 1, 1918. Serial No. 214,960. 7 Claims. (Cl. 242—156.)



7. In a winding and reeling machine, a frame, a shaft carried thereby, a rotary reel mounted on said shaft, a plurality of rotatable supply bobbins carried by said reel, means for locking the reel with the upper bobbin in delivering position, an arm pivotally mounted on said frame, a tension member carried by said arm and adapted

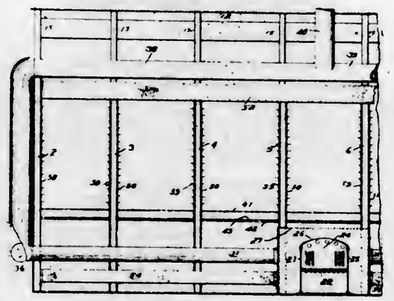
to engage the upper of said supply bobbins, and a sliding weight shiftable from one side of the pivot of said arm to the other for holding said tension member in engagement with said supply bobbin during delivery and for holding said tension member out of engagement with said supply member during rotation of the reel.

1,385,926. ANTISKID-TIRE. CHARLES P. SALGEE, Philadelphia, Pa. Filed Dec. 11, 1920. Serial No. 429,969. 2 Claims. (Cl. 152—6.)



2. A tire for vehicle wheels comprising an annular flat ring adapted for attachment on a wheel felly and having equi-distant longitudinally disposed integral bridge pieces projecting outwardly therefrom, a rubber tire for fitment on said annular ring over the bridge pieces and having an undulating continuous passage therethrough, and a compressed fabric rope-like element of a higher co-efficient of friction continuously interlaced through said passage and bridge pieces whereby the tire is firmly anchored to the flat ring.

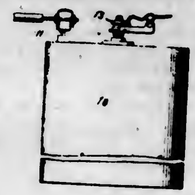
1,385,927. FISH-CURING MACHINE. WILLIAM F. SCHALLER, San Francisco, Calif. Filed Feb. 25, 1920. Serial No. 361,216. 6 Claims. (Cl. 34—39.)



5. A machine of the class described comprising a casing having a plurality of trays supported therein, side doors through which the trays may be placed in the casing and removed therefrom, a pair of foraminated partitions one over the other in the lower portion of the casing, a furnace below said partitions having heating pipes extending toward both ends of the casing, other heating pipes returning through the top of the casing and connected with the lower heating pipes, means to regulate the amount of air passing through one of the foraminated partitions over the heating pipes, outside dampers between said foraminated partitions and below them, and means to allow the escape of excessive moisture at the top of the casing.

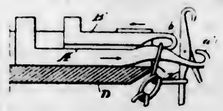
1,385,928. WIRE-TERMINAL. EDWARD SCHWARTZ, New York, N. Y., assignor to Manhattan Electrical Supply Company, Inc., Jersey City, N. J., a Corporation of Massachusetts. Filed Jan. 27, 1919. Serial No. 273,321. 2 Claims. (Cl. 173—259.)

1. A spring binding post comprising a base affording means for securing the post in position, upstanding channel sides therefor extending in one direction beyond the base, projecting wire-engaging means on said channel sides, in combination with a spring strap between said sides forming a continuation of the base, but bent upward therefrom and extending in the direction of the channel



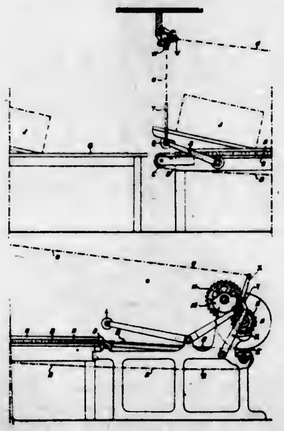
sides beyond the base, together with wire engaging means bent downward from opposite sides of said strap and embracing the wire engaging means on the channel sides to coöperate therewith to engage and grip an inserted wire.

1,385,929. KNITTING-MACHINE NEEDLE. ROBERT W. SCOTT, Babylon, N. Y. Filed May 1, 1920. Serial No. 378,233. 20 Claims. (Cl. 66—5.)



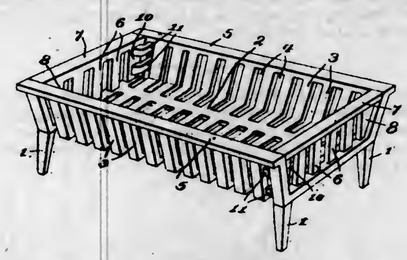
6. A knitting machine needle in two parts one having a hook to draw a new loop, while the other part has a hook with a return bend to engage and take a previous loop from the first mentioned part.

1,385,930. SACK-FEEDER. WILLIAM SCOTT, Lochee, Dundee, Scotland. Filed Mar. 2, 1918. Serial No. 220,055. 3 Claims. (Cl. 271—45.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)



2. In rotary sack-printing and like machines of the type described; feed mechanism comprising in combination an endless feed cloth traveling only in a horizontal plane, a plurality of tables arranged in series on which is placed the material to be transferred to the feed cloth, one table extending over a part of the feed cloth, a second table to the rear thereof, and timing rollers for each attendant so that the material fed to the cloth travels forward at the proper time, as described.

1,385,931. GRATE-BASKET. PAUL F. SEMONIN, Louisville, Ky. Filed Dec. 17, 1920. Serial No. 431,472. 4 Claims. (Cl. 126—165.)



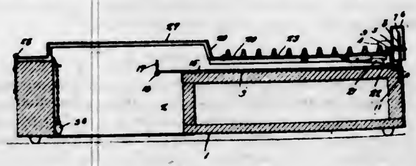
4. An improved grate basket comprising a bottom provided with means to support it at an elevation, front and rear walls rising from said bottom, removable side walls fitted between the ends of said front and rear walls and adapted to rest upon the bottom, said side walls provided with means at one end engaging with the front and rear walls to secure that end of the side wall in place and against lateral movement, and coöperating means between the front and rear walls and the other ends of said side walls adapted to detachably hold the side walls in place at this end and against lateral displacement, substantially as described.

1,385,932. HYDRAULIC VALVE. DAVID F. STAYMAN, Baltimore, Md., assignor to Isaiah G. Engle, Philadelphia, Pa. Filed June 10, 1919. Serial No. 303,049. 1 Claim. (Cl. 251—146.)



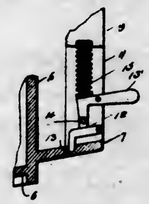
In a device of the class described, a valve element, a body on which said valve is seated, and a cylinder for forming an air cushion, said cylinder comprising upper and lower tubular sections having telescoping connection, the lower section having a port therein and including a flanged cover plate for the valve, the upper section including a head, a stem formed on the head, concentric with the walls of the upper section of the cylinder, the stem projecting through the valve and into said body, to which it is secured, and a spring encircling the stem within the two part cylinder thus formed, and spaced from the walls of each.

1,385,933. VENDING-MACHINE. WILLIAM G. TEMPLETON, Colorado Springs, Colo. Filed Sept. 30, 1919. Serial No. 327,414. 7 Claims. (Cl. 211—33.)



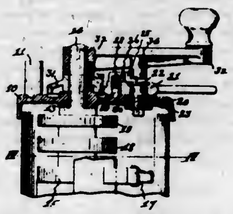
5. In a vending machine the combination with means for supporting strip material, and means mounted for back and forth movement for feeding the strip material from the machine in measured lengths, of a stationary cutting strip below the path of the vended material, a cutting wheel movable along said strip and transversely of the vended strip to sever the strip material, and means for automatically returning the wheel to normal position when released.

1,385,934. COLLAPSIBLE BUCKET. RAYMOND D. VINES, Ogden, Utah. Filed Dec. 30, 1919. Serial No. 348,259. 1 Claim. (Cl. 220—8.)



A bucket comprising a plurality of telescoping sections, the top and bottom sections having outwardly extending projections, bars having their extremities engaging the inner faces of said projections to hold the bucket extended, means hingedly connecting the upper ends of the bars to the upper section to admit of the bars folding over the bucket, latches carried by the lower ends of the bars to positively and detachably engage the lower projection, and spring controlled finger engaging members mounted upon the bars for operating the said latches.

1,385,935. CONTROLLER LOCK-LEVER. ALBERT R. WILLIAMS, Ironton, Ohio, assignor to The Ironton Engine Company, Ironton, Ohio, a Corporation of Ohio. Filed July 15, 1920. Serial No. 396,439. 5 Claims. (Cl. 74—83.)

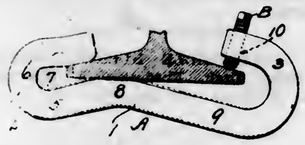


1. A controller or switch operating device comprising a cover having an opening, a rotatable shaft passing through said opening of the cover, a controller lever secured to said shaft for rotating the same, a collar rotating with said shaft and controller lever, a lock lever pivotally supported on said cover in proximity to said controller lever and collar, means on said lock lever to engage said controller lever and limit its angle and direction of rotation, and a secondary means on said lock lever to engage the index collar to lock the controller lever in a fixed or neutral position.

1,385,936. RAIL-ANCHOR. BENJAMIN WOLHAUPTER, New Rochelle, N. Y. Filed Aug. 29, 1917, Serial No. 188,810. Renewed June 23, 1921. Serial No. 479,962. 1 Claim. (Cl. 238—330.)

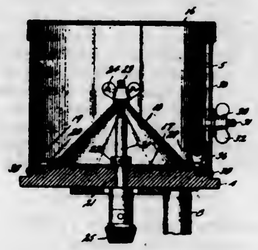
A rail anchor comprising a spring bar upwardly bowed between its ends forming a fulcrum engaging the rail base at an intermediate point thereof, said bar being also

formed at one end with a clip having a clearance beyond and beneath the edge of one rail flange and having a bearing engagement upon the upper side of said flange,



and an adjusting device adjustably engaging the other arm of the spring bar and having a bearing engagement on the upper side of the opposite edge of the rail base.

1,385,937. PLANTER. GEORGE H. WAIGHT, Spokane, Wash. Filed Apr. 7, 1920. Serial No. 371,968. 3 Claims. (Cl. 221—125.)



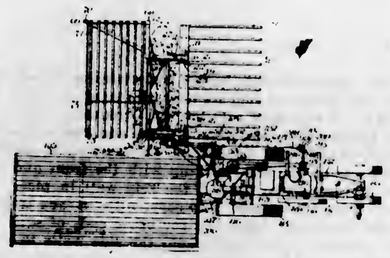
1. A planter, comprising a seed box having an outlet opening in its bottom, a disk on the bottom of the seed box having adjacent its edge a circular series of seed openings or pockets, said pockets having walls projecting slightly above the surface of the disk, a conical deflector secured centrally on the disk and directing the seed into the pockets, means for controlling the discharge of seed from the pockets through said outlet, said means comprising a housing having an opening for the passage of the pockets, a pivoted gate controlling said opening, and a spring tongue adapted to eject seeds through the bottom of the pockets.

1,385,938. HAIR-CUTTER. EDWARD E. ZIEGLER, Philadelphia, Pa. Filed Aug. 4, 1919. Serial No. 315,276. 2 Claims. (Cl. 30—1.)



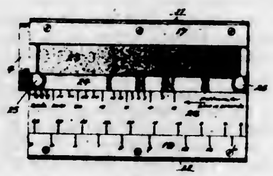
1. A hair cutter comprising a casing, an operating shaft journaled in the casing, a rigid cutter on the casing, a movable cutter in the casing disposed to operate over the rigid cutter, a stud projecting upwardly from the lower portion of the casing, an operating member mounted on the stud and connected with the operating shaft for imparting an oscillatory movement to the movable cutter when the shaft is actuated, a spring on the stud between the casing and the operating member and serving to hold the latter in connection with the movable cutter, a cutter adjusting member overlying the casing and having one end engaging the movable cutter and the other end fitted over the stud, a nut for the stud and a spring on the stud between the nut and the adjusting member and bearing against the latter.

1,385,939. GRAIN-SHOCK LOADER. EDWARD W. BURGESS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Nov. 13, 1915. Serial No. 61,404. 3 Claims. (Cl. 214—42.)



1. In combination, a motor propelled vehicle having a source of power thereon, a draft member carried thereby, a trailing vehicle connected to said draft member, a shock loader connected to said draft member and disposed at one side of said trailing vehicle, said shock loader including a shock engaging and hoisting fork, operative connections between said source of power and said shock hoisting fork, and a deflecting member carried by said loader and located in a position to receive the shock discharged by said fork and to deflect said shock into said trailing vehicle.

1,385,940. METHOD OF AND APPARATUS FOR DETERMINING PHOTOGRAPHIC EXPOSURES. VALCOULON L. ELLICOTT, Baltimore, Md. Filed Jan. 14, 1920. Serial No. 351,471. 11 Claims. (Cl. 95—10.)

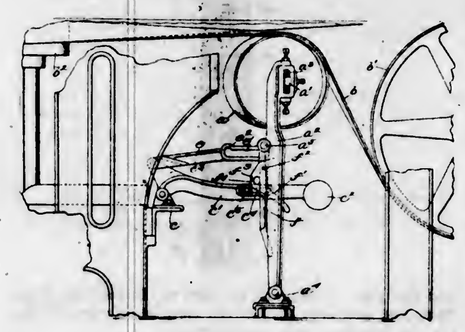


1. That method of determining photographic exposures which consists in determining the actinic intensity of light falling upon the observer, making a photometric comparison of said light and the light reflected from the subject to the observer and expressing the exposure as a function of the two values thus determined.

1,385,941. OIL-PROOFED CONTAINER AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J., assignor to Ellis-Foster Co., a Corporation of New Jersey. Filed Sept. 19, 1917. Serial No. 192,233. 3 Claims. (Cl. 91—68.)

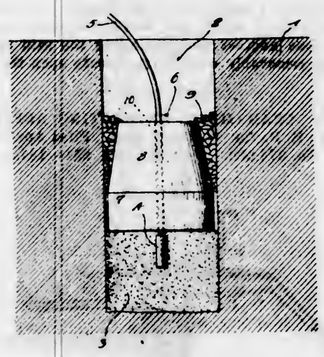
1. The process of oil-proofing concrete tanks which comprises applying thereto an acid solution of sulfite cellulose waste liquor and permitting the latter to react with the alkali of the concrete.

1,385,942. AUTOMATIC BELT-TIGHTENER. GEORGE N. GODDARD, Newton, and FRANK A. SMITH, Reading, Mass., assignors to American Tool & Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 15, 1919. Serial No. 323,917. 7 Claims. (Cl. 64—5.)
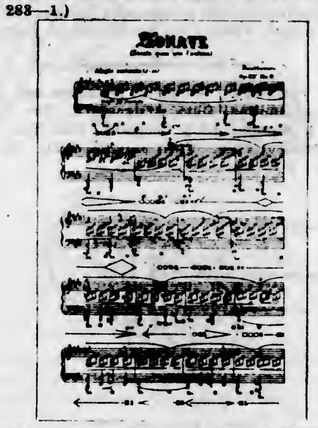


1. In an automatic belt tightener the combination of a movable idler pulley supporting frame, an independently supported weight-arm, a link pivotally connected at its rear end to an appropriate part of said weight-arm and having at its forward end a plurality of notches arranged to engage and position said pulley frame and to keep the pulley pressed against the belt to take up the slack thereof, substantially as described.

1,385,943. DRILL-HOLE SHOOTING-PLUG. ERNST W. GREINER, New Castle, Pa. Filed Feb. 27, 1920. Serial No. 361,692. 1 Claim. (Cl. 102—11.)



A drill hole shooting plug comprising a relatively long solid substantially cylindrical body provided with a central bore for passage of a fuse, the exterior surface of said body being gradually tapered from a point intermediate its center and lower end to its upper end, forming a truncated conical upper portion and a cylindrical lower portion, the upper end of said truncated portion being circular, flat, and of considerable diameter to permit a suitable instrument to be engaged with it for forcing the plug by irregularities in the wall of the drill hole.

1,385,944. NOTATION FOR INDICATING LIGHTING EFFECTS. MARY HALLOCK-GREENEWALT, Philadelphia, Pa. Filed Aug. 18, 1919. Serial No. 318,393. 8 Claims. (Cl. 283—1.)



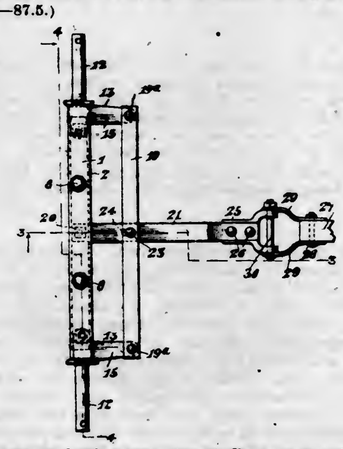
1. A system of notation for indicating lighting effects in timed succession comprising a series of arbitrary symbols, certain of said symbols indicating light, and other symbols indicating the intensity of such light.

1,385,945. BELT-BUCKLE. JOHN HEBERLING, Rochester, N. Y. Filed May 13, 1921. Serial No. 469,347. 4 Claims. (Cl. 24—191.)



1. A belt buckle, comprising a plate having side flanges, a stationary plate fastened on the back of the buckle plate between the flanges, said plate having its foward end bent to form a forwardly extending wedge with a shoulder at the back thereof, said stationary plate having a series of holes formed in the rear end thereof, a jaw pivoted over said stationary plate having teeth thereon registering with said holes when in locking position and adapted to force the belt into said holes.

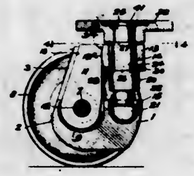
1,385,946. COASTER-WAGON. HENRY J. HEIDER, Carroll, Iowa, assignor to Heider Manufacturing Company, Carroll, Iowa, a Corporation of Iowa. Filed Mar. 31, 1919. Serial No. 286,452. 4 Claims. (Cl. 280—87.5.)



1. A wagon having separate spindles, a supporting device for each spindle having three arms projecting there-

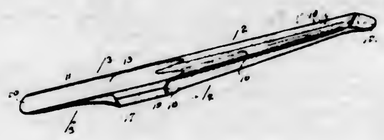
from in different angular relations, one of the arms of each supporting device being situated on the spindle side of the other two arms, said other arms being pivoted at the ends remote from the spindle with the upper of the two arms the longer, whereby the spindle slants downwardly.

1,385,947. CASTER. GEORGE J. KALBERER and JOHN A. WEIGEL, Hamilton, Ohio, assignors to The Hamilton Caster & Manufacturing Company, Hamilton, Ohio, a Corporation of Ohio. Filed July 27, 1920. Serial No. 399,252. 5 Claims. (Cl. 16—4.)



4. In a device of the class described, a swivel-supporting member, provided with a pair of spaced extensions, a bowl-shaped socket adjacent said extensions, a shank freely engaged between said extensions, a head formed upon said shank and abutting said extensions, a vertical opening through said head, a swivel-post loosely stepped within said bowl-shaped socket and traversing said head, a shoulder upon said swivel-post abutting said head, and a wheel shaft supported in said swivel supporting member and loosely traversing said shank.

1,385,948. TIRE-REMOVING TOOL. OLOF AUGUST NORLUND, Williamsport, Pa. Filed Mar. 24, 1920. Serial No. 368,257. 3 Claims. (Cl. 157—6.)



1. In a tire removing tool, a shank, said shank comprising a knife portion, a handle portion, and a portion designed to receive blows, the knife portion having a rounded face on one side of the tool and a hollow ground face on the opposite side, and a knife edge provided along one side of the tool where the two faces meet, the end of the knife portion being formed with a knife edge which forms a continuation of the other knife edge.

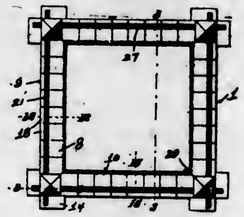
1,385,949. LICENSE-HOLDER. HARRY E. PALMER, Burlington, Vt., assignor to Auto Specialty Co. Inc., Burlington, Vt., a Corporation of Vermont. Filed July 5, 1919. Serial No. 308,796. 9 Claims. (Cl. 40—10.)

1. A license card holder, comprising the combination of a flat rectangular metal plate having provisions for permanently attaching it to a supporting surface, one edge of said plate being folded over and the opposite edge being bent at substantially right angles, and an open metal frame of greater length than said plate and having its edges folded over to hold the card, the folded portions of the longitudinal edges of said frame being cut away near one end so as to engage under said folded over edge of the plate, the end folded edge of said frame remote from said cut away portions being adapted to detachably engage



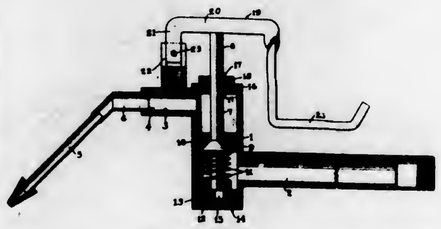
said bent edge of the plate, and said end folded edge of the frame and said bent edge of the plate being centrally cut away to facilitate their disengagement.

1,385,950. ADJUSTABLE PICTURE-FRAME. ALEX PETROW, San Francisco, Calif. Filed Oct. 26, 1920. Serial No. 419,708. 3 Claims. (Cl. 40—155.)



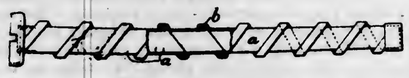
1. A picture frame comprising frame bars, and a plurality of blocks in which said bars are slidable, said blocks abutting one another and concealing the said bars, and means for removably securing the blocks upon the bars.

1,385,951. CRAB-MEAT-EXTRACTING APPARATUS. ARTHUR H. RANGE, Portland, Oreg. Filed Apr. 17, 1920. Series No. 374,696. 1 Claim. (Cl. 251—134.)



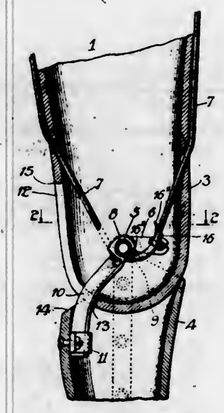
A device of the class described including a body chamber, an air inlet connected with the chamber at a point adjacent one end, an air outlet connected with the chamber upon the opposite side from the inlet and disposed adjacent the opposite end of the chamber from the inlet, whereby the said inlet and outlet are disposed in different planes with respect to the body, a nozzle connected to the outlet and extending at an oblique angle with respect to the body, a spring actuated valve within the chamber adapted to normally close communication between the inlet and outlet, a valve stem extending up through the chamber, spaced arms formed on the outlet, an operating handle member including a transverse body portion, an angular projecting end pivotally arranged between the spaced arms on the outlet, said transverse body portion engaging the valve stem and an L-shaped portion formed at the end of the body portion opposite the angular projecting end to provide a hand grip for actuating the handle member to move the valve and open communication between the inlet and outlet.

1,385,952. LOOM SHUTTLE-BOBBIN. WILLIAM ROUTLEDGE, London, England. Filed July 6, 1920. Serial No. 394,278. 4 Claims. (Cl. 242—121.)



3. A loom shuttle bobbin composed of a strip of metal spirally wound to form a taper tube, the adjacent edges of said strip being hook-shaped in cross sections, said hook-shaped portions being adapted to interlock.

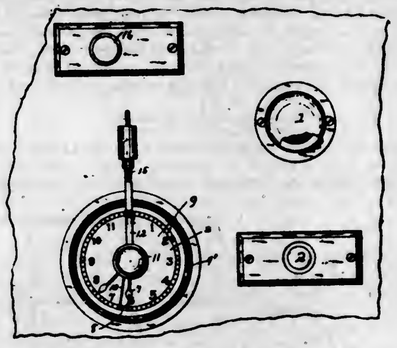
1,385,953. KNEE-JOINT MECHANISM FOR ARTIFICIAL LIMBS. JAMES F. ROWLEY, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 374,948. 12 Claims. (Cl. 3—11.)



12. In an artificial leg a knee-joint comprising a hinge pivot, a lever fulcrumed thereon having one arm secured to one of the leg members and another arm disposed transversely of the main axis of said member, a tubular arcuate bearing pivoted forward of its center on the free end of said other arm in a plane perpendicular to said pivot, and an actuating cord loop disposed lengthwise of the other leg member and extending through said bearing.

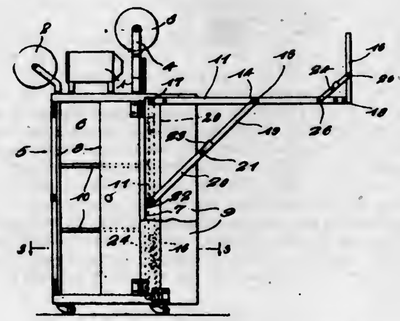
1,385,954. TIMING-SWITCH FOR AUTO LIGHTING-CIRCUIT. JOHN F. SCHREIBER, Milwaukee, Wis. Filed July 10, 1919. Serial No. 309,862. 7 Claims. (Cl. 161—1.)

4. In a timing switch mechanism for lighting circuits, the combination with a time piece provided with a rotary contact arm, a transparent cover for the time piece provided with a rotatively adjustable terminal having one portion in the path of said arm when said contact arm and terminal are in engagement, and electrically operated mechanism controlled by said contact arm and terminal for



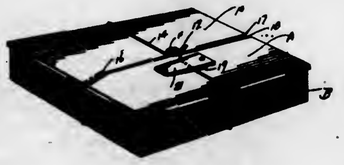
connecting up the lighting circuit, said lighting circuit having a shunt which includes said contact arm and terminal, and said electrically operated mechanism.

1,385,955. PICTURE-PROJECTING APPARATUS. IWAN SERAURIER, Altadena, Calif. Filed Jan. 12, 1920. Serial No. 350,767. 7 Claims. (Cl. 88—17.)



1. A device of the class described, comprising a cabinet and a moving picture projector supported on the top of said cabinet, said cabinet having a compartment adapted to contain moving picture projector parts and supplies and another compartment adapted to contain a screen, a screen for reception in said other compartment, and means connecting said cabinet and screen to space the screen outwardly from the cabinet and dispose said screen in axial alinement with the projector lens for use.

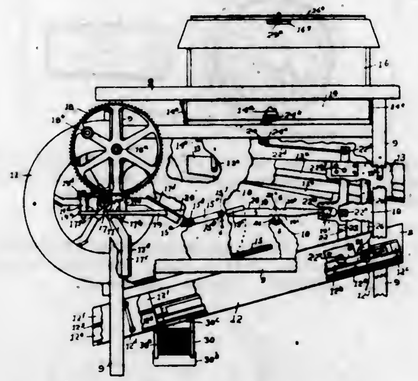
1,385,956. PACKAGE-TIE. CHARLES G. SERVIS, Logan, Iowa. Filed May 11, 1920. Serial No. 380,561. 4 Claims. (Cl. 24—18.)



1. A package tie comprising a flat plate, an upstanding heated post carried by the central portion of the plate, the

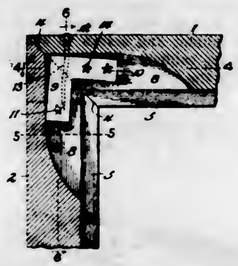
plate having its opposite ends provided respectively with an inclined guide opening and an inclined guide groove, a binding cord having one end secured to the central post, the cord being arranged in said inclined guide opening and adapted to engage in said groove when the same is passed around a package, and a releasable resilient clamp carried by the upper surface of the plate at one side of the post for detachably receiving the free end of said binding cord.

1,385,957. SEED SEPARATOR AND GRADER. WILLIAM V. VAN ETTEN, Bellingham, Wash. Filed Dec. 26, 1919. Serial No. 347,388. 5 Claims. (Cl. 130—15.)



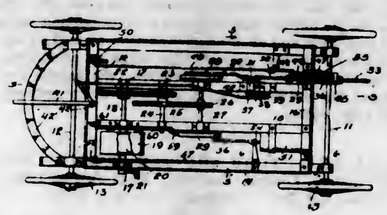
1. In combination, a seed receptacle, means to draw seed from said receptacle in a wide stream, means to control the volume of said flowing seed, a shakable seed sieve below said receptacle, means to vibrate said sieve rapidly in short arcs, means to change the amplitude of said arcs of vibration, a brush screen mounted above said sieve, means to cause the front end of said brush screen to vibrate rapidly in an arc of short length and the rear end of the same to vibrate in a plane, said movements timed with those of said sieve but in an opposite direction, and means to change the amplitude of the vibrations of said brush screen.

1,385,958. FRAME FOR WINDOW-SCREENS AND METHOD OF MAKING SAME. FREDERICK W. VAN FLEET, Toledo, Ohio. Filed Apr. 24, 1920. Serial No. 376,282. 3 Claims. (Cl. 20—92.)



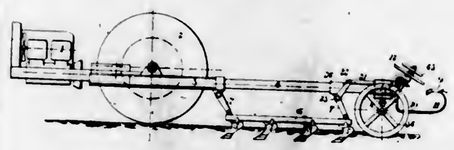
1. A window or other sash frame, comprising rails each with a miter end having a narrow cut lengthwise thereinto for a portion of the width of the rail, angular corner pieces of sheet metal with leg portions entering meeting cuts at the miter ends of the rails, pins traversing the rails and leg portions of the corner pieces, and a nail or pin extending through one miter end of each joint and entering the miter end of the other rail completing the joint.

1,385,959. BABY-CARRIAGE. JOSEPH WEASLER, Cascade, Wis. Filed July 15, 1919. Serial No. 310,953. Renewed Apr. 20, 1921. Serial No. 463,078. 4 Claims. (Cl. 180—1.)



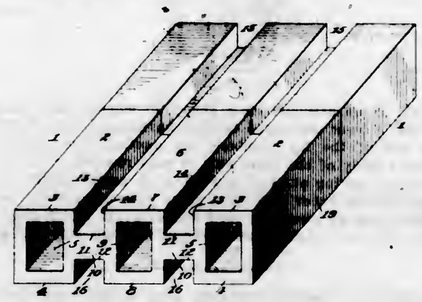
1. A wheeled vehicle having a frame and wheel supporting axles, a pinion carried by one of the axles, a bell crank pivotally connected with the frame, a rocker lever pivotally connected with the bell crank, a rack connected with the lever and engaging the pinion for imparting rotary movement to the pinion as the rack reciprocates, a rotary driving element, a pitman connecting the lever with the driving element and imparting operating movement to the lever as the driving element rotates, and means for rotating the driving element.

1,385,960. MOTOR-PLOW. ERNST WENDELER, Berlin, Germany, assignor to The Firm of Deutsche Kraftpflug-Gesellschaft M. B. H., Berlin, Germany. Filed May 11, 1920. Serial No. 380,706. 13 Claims. (Cl. 97—30.)



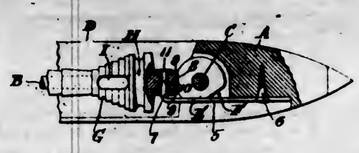
1. In a motor plow, a carriage frame and a share frame suspended on said carriage frame, the rear part of said carriage frame consisting of a single beam only.

1,385,961. BUILDING-BRICK. JAMES P. WILLIAMS, Milton, Pa. Filed May 19, 1920. Serial No. 382,534. 6 Claims. (Cl. 72—41.)



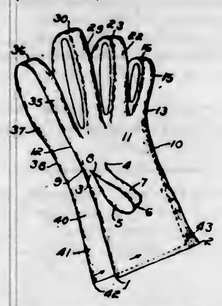
1. A building-brick comprising side load-sustaining members, hollow throughout their length to provide longitudinal air-cells; a central load-sustaining member of approximately the same dimensions as the side members and also provided with a longitudinally-extending air-cell; there being at least three of such air-cells in the brick; and solid webs connecting the central load-sustaining member with each of the side members and extending in horizontal planes from the central member approximately midway of its top and bottom portions; the upper and lower faces of each of the side members being in the same plane; the side members being in balanced relation to the central member; the central member presenting two oppositely-disposed hand-holds, whereby the brick is rendered reversible and adapted to be gripped at either side; and there being between the central member and each side member a mortar-joint-breaking channel having right angularly formed walls.

1,385,962. BOBBIN-HOLDING MEANS. WILLIAM P. WOOD, Pawtucket, R. I., assignor to Jenckes Spinning Company, Pawtucket, R. I., a Corporation of Rhode Island. Filed June 29, 1918. Serial No. 242,673. 9 Claims. (Cl. 139—89.)



1. In a shuttle, the combination with the bobbin and the bobbin spindle, of a longitudinal tongue at the butt end of the bobbin having a socket extending transversely therethrough, and a spur on the shuttle body adapted to engage said socket when the bobbin is inserted to lock the bobbin against longitudinal displacement or turning on the bobbin spindle.

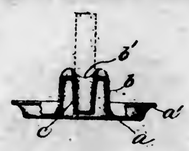
1,385,963. GLOVE AND METHOD OF MAKING SAME. GEORGE P. BOSWORTH, Central Falls, R. I., assignor to Hemphill Company, Pawtucket, R. I., a Corporation of Massachusetts. Filed Sept. 9, 1918. Serial No. 253,205. 20 Claims. (Cl. 66—4.)



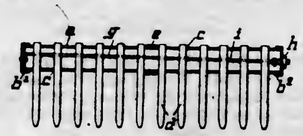
1. In an article of manufacture, a glove blank consisting of a single, longitudinal strip substantially of the width of the hand, having opposite selvaged edges, with finger strips each having opposite selvaged edges and each being of twice the length of the corresponding finger and adapted to be folded transversely at the tip, said blank being adapted to be secured together along said opposite selvaged edges.

1,385,964. COMBINED CIGARETTE HOLDER AND EXTINGUISHER. WINDSOR COBB, San Francisco, Calif., assignor to R. Blackinton & Co., North Attleboro, Mass., a Copartnership composed of Roswell Blackinton, Walter B. Ballou, Howard M. Ballou, Myra A. Freeman, and Helen G. Cutter. Filed June 28, 1919. Serial No. 307,424. 4 Claims. (Cl. 131—51.)

1. A cigarette holder and extinguisher comprising a supporting base portion, an upwardly projecting boss formed with an internal vertical socket open at its top and flared from the bottom to the top, the diameter of said socket at some intermediate point being approximately equal to the diameter of a cigarette whereby a cigarette when inserted with its lighted end downward is pinched to exclude air and prevent the escape of smoke fumes therefrom, substantially as described.

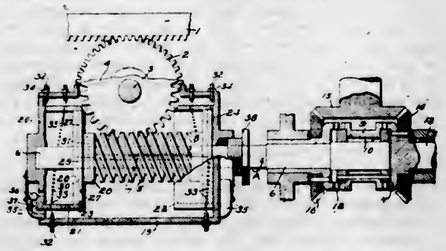


1,385,965. RAKE WITH EXCHANGEABLE PRONGS. MAX EDEL, Nuremberg, Germany, assignor to the Firm of Maschinenfabrik Worzeldorf H. A. Paulus & Franck, Worzeldorf-Nuremberg, Germany. Filed Jan. 6, 1921. Serial No. 435,528. 6 Claims. (Cl. 55—10.)



5. A rake, comprising, in combination, a hollow rake-head, a metal-band having oblong apertures extending through said head in its longitudinal direction; holes provided in the rake-head wall and registering to said metal-band apertures; prongs passing through said holes and said apertures; caps closing the rake-head ends; a central hole in one of said caps; a connection between the other cap and the adjoining end of the metal-band; a threaded bolt affixed to the other end of the metal-band and extending through said cap-hole; and a nut upon the outer end of said bolt, for the purpose set forth.

1,385,966. REVERSING MECHANISM. THURE LARSSON, Worcester, Mass. Filed July 29, 1919. Serial No. 314,154. 13 Claims. (Cl. 74—36.)

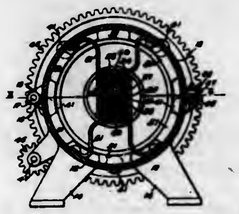


1. A reversing mechanism for reciprocating a load comprising a rotatable, longitudinally movable worm, means to rotate the worm uniformly in opposite directions and fluid controlled means to yieldingly resist longitudinal movement of the worm to start the load gradually and uniformly from rest to a uniform driving rate and thereafter positively limit such longitudinal movement until the mechanism is reversed.

1,385,967. APPARATUS FOR APPLYING COVERING OF SHEET MATERIAL. JAMES P. A. MCCOY, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed July 9, 1917. Serial No. 180,015. 12 Claims. (Cl. 173—244.)

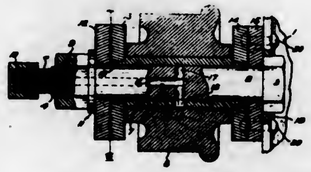
10. Apparatus for applying a covering to a core, comprising a frame, means for supporting said core in oper-

ative position relative to said frame, means for applying a covering of sheet material to said core, a pressing element of flexible metal fabric, means for yieldingly supporting said pressing element in operative engagement



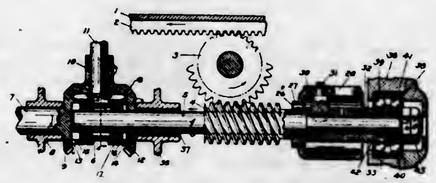
with the covering on said core, and means for causing relative rotation between said pressing element and the covering of sheet material on said core to thereby press and compact said covering.

1,385,968. LUBRICATING DEVICE FOR CHAIN-PINS. RAY C. NEWHOUSE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed May 25, 1918. Serial No. 236,945. 2 Claims. (Cl. 74—32.)



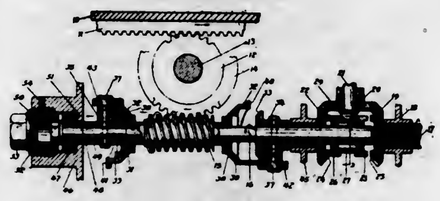
1. In combination, a bushing having a bore and a flattened end, a chain link rigidly secured to said bushing at said end, a pin fitting said bore and having adjacent coarse and fine threaded portions at an end thereof, a second chain link rigidly secured to said pin, said links being relatively angularly movable, means for preventing relative transverse movement of said links in one direction, means associated with said coarse threaded portion of said pin for preventing relative transverse movement of said links in the opposite direction, and a lubricant cap associated with said fine threaded portion of said pin, said pin being adapted to conduct lubricant from said cap to said bore.

1,385,969. DRIVING AND REVERSING MECHANISM. CHARLES H. NORTON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 27, 1918. Serial No. 225,118. 9 Claims. (Cl. 74—36.)



1. In a driving and reversing mechanism for a reciprocating load, means to start the load gradually and to move it in opposite directions comprising a screw threaded member rotated continuously between reversals, a driven member meshing therewith and automatic means rotated continuously during the starting operation to impart a gradual acceleration of velocity to said member and thereafter drive it at a normal rate.

1,385,970. REVERSING MECHANISM. CHARLES H. NORTON, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed May 4, 1918. Serial No. 232,599. 8 Claims. (Cl. 74—36.)



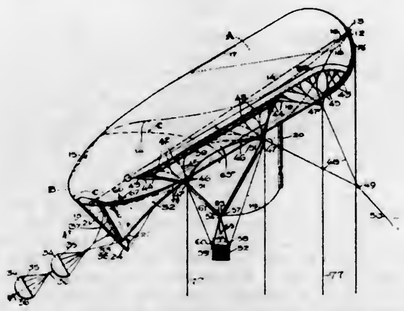
1. A reversing mechanism comprising a rotatable driving worm, a worm gear and load driven by the worm, reversing driving means for the worm, means to move the worm axially at an increasing rate to start the load gradually and thereafter to rotate the worm at a normal rate for an indeterminate period and means whereby the load may come gradually to rest under its own momentum without material shocks at each reversal.

1,385,971. TURNSTILE. CONRAD D. TRAUBENBACH, Mount Vernon, and DIETRICH BALDWIN SANNEMAN, Brooklyn, N. Y., assignors to Perey Manufacturing Company, a Corporation of New York. Filed Nov. 20, 1919. Serial No. 339,326. 7 Claims. (Cl. 105—341.5.)



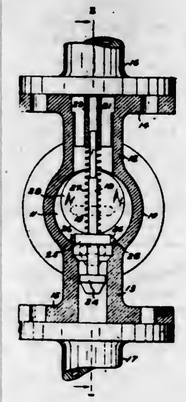
1. The combination with a car, of two independent turnstile casings containing registering mechanism, and a single head and arms therefor.

1,385,972. KITE-BALLOON. RALPH H. UPSON, Akron, Ohio, assignor to The Goodyear Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed June 20, 1916. Serial No. 104,691. 16 Claims. (Cl. 244—4.)



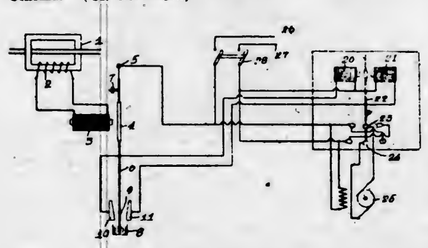
1. In a kite-balloon, an envelop having separate gas and air compartments, a substantially conical inlet neck flexibly dependent from the air compartment, and a keel extending between said inlet neck and the balloon envelop, whereby said inlet neck is anchored in a substantially fixed position.

1,385,973. FLOW-INDICATOR. ARTHUR J. BROWN, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Jan. 2, 1920. Serial No. 349,654. 11 Claims. (Cl. 116—117.)



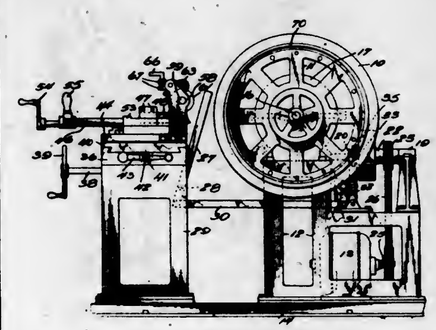
1. A flow indicator, comprising a casing having openings affording a flow of fluid therethrough and provided with a transparent window affording a view of the interior of the casing, and an indicating element within said casing having an indicating portion biased to a non-indicating position and movable to an indicating position in response to flow of fluid through said casing, said indicating element comprising a part in the path of flow through said casing and capable of offering substantial obstruction to such flow, said latter part being coöperative with a portion of said casing to permit flow of variable amount through said casing when said indicating portion is in indicating position.

1,385,974. CURRENT-REGULATOR FOR ELECTRIC FURNACES. SIDNEY BURROWES, Niagara Falls, Ontario, Canada. Filed Oct. 26, 1920. Serial No. 419,725. 6 Claims. (Cl. 204—64.)



1. A regulator for furnace electrodes, comprising a motor adapted to actuate said electrodes, a source of power adapted to be connected to said motor, a switch adapted to establish said connection, a magnet adapted to operate said switch, a plurality of uniformly moving contactors in circuit with said magnets, a movable contact element adjacent said uniformly moving contactors, and a magnet adapted to operate said movable contact, said magnet being electrically related to the circuit of the electrodes whereby its energization is in proportion to the strength and duration of current through the electrodes.

1,385,975. TIRE-FINISHING MECHANISM. MARK A. REPLOGLE, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 17, 1918. Serial No. 258,641. 5 Claims. (Cl. 18—1.)



1. An apparatus of the character specified, a tire trimming blade having its forward portion beveled longitudinally and provided with longitudinal flutings, the forward edge portion of the blade being inclined forwardly downwardly.

1,385,976. METHOD OF MAKING CROWN-OPENERS. EDWIN WALKER, Erie, Pa.; Jessie Sterrett and Mary E. Steiner administratrices of said Edwin Walker, deceased. Original application filed July 19, 1910, Serial No. 572,681. Divided and this application filed July 22, 1915. Serial No. 41,275. 4 Claims. (Cl. 76—101.)



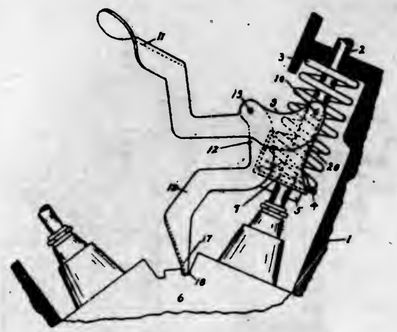
1. The method of making an article of the class described, which consists in bending a rod or wire into the form of a loop but leaving an extension on said loop to form a handle and then producing lips in the inner surface of said loop by swaging the metal thereof inwardly of the loop for the purpose of forming crown lifting projections.

REISSUES.

15,162. DEVICE FOR REMOVING PUPPET-VALVES. CHARLIE J. BOUSFIELD, Bay City, Mich. Filed May 14, 1919. Serial No. 297,176. Original No. 1,245,667, dated Nov. 6, 1917, Serial No. 81,896, filed Mar. 3, 1916. 18 Claims. (Cl. 29—86.3.)

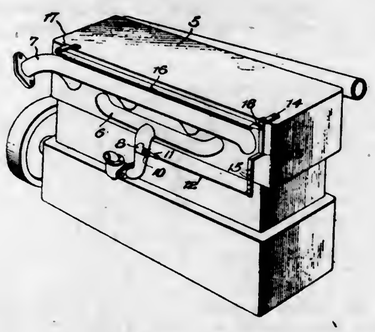
1. In a spring-lifting device of the class described, the combination of a lifting cup adapted to be removably applied around the valve stem and adapted to lift the spring, a bifurcated lever pivotally secured to the upper part of said cup and having a handle, a thrust bar pivoted at its upper end to said lever, its lower end adapted to engage a stationary support, the pivotal connection between the lever and thrust bar adapted to travel

past an imaginary line connecting the pivotal connection of the cup and the point of support of the thrust bar, to



lock the thrust bar and lever in place, said thrust bar engaging said handle when in locked position, for the purposes set forth.

15,163. AUXILIARY AIR-INTAKE FOR INTERNAL-COMBUSTION ENGINES. DAVID DUNLOP and JOHN D. DAVIS, Petersburg, Va. Filed Feb. 7, 1919. Serial No. 275,673. Original No. 1,280,193, dated Oct. 1, 1918, Serial No. 176,134, filed June 21, 1917. 3 Claims. (Cl. 123—124.)



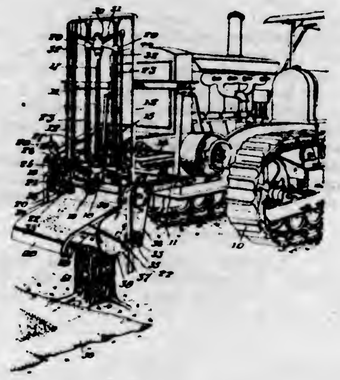
1. The combination with an internal combustion engine having an intake manifold and an exhaust manifold, a valve casing communicating with the intake manifold, a reciprocatory valve for the casing, said casing being provided with an inlet port having opposite walls diverging in the direction of the opening movement of the valve, a thermostatic element mounted adjacent and in substantially parallelism with the exhaust manifold, and a lever fulcrumed in its upper portion upon the engine and connected at its lower portion with the valve, and also associated with the thermostatic element for movement thereby.

15,164. GARTER-CLASP. AUGUSTA S. JOHNSON, Philadelphia, Pa. Filed June 15, 1921. Serial No. 477,804. Original No. 1,368,558, dated Feb. 15, 1921, Serial No. 364,004, filed Mar. 8, 1920. 5 Claims. (Cl. 24—245.)

5. In a garment supporter the combination with a clasp, of a button supporting member comprising a strip connected to the clasp and depending therefrom, a sheath at the lower portion of the strip and formed of the material thereof and a button disposed in said sheath but not rigidly connected thereto, said button being freely movable within the sheath.



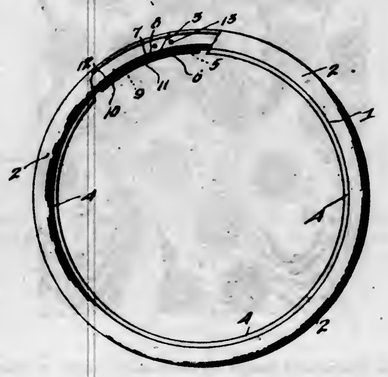
15,165. DISINTEGRATING AND CONSERVING MECHANISM. EDWIN A. MCKOY and GEORGE D. MOORE, New Orleans, La. Filed May 20, 1921. Serial No. 471,258. Original No. 1,312,450, dated Aug. 5, 1919, Serial No. 262,539, filed Nov. 17, 1917. 12 Claims. (Cl. 144—2.)



1. A machine for removing stumps and conserving the substance thereof, comprising a portable frame having means for supporting, rotating and downwardly feeding toward the stump a horizontal shaft, a cutter whose diametrical and longitudinal dimensions are substantially equal to, or greater than, the transverse section of the stump, and a hood movable with said cutter and arranged to deflect and gather the cuttings.

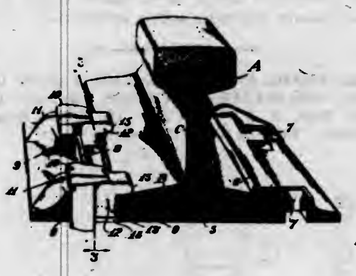
15,166. DEMOUNTABLE RIM. FREDELLIA H. MOYER, Cleveland, Ohio, assignor to General Rim Company, New York, N. Y. Filed Jan. 11, 1915. Serial No. 1,719. Original No. 1,116,723, dated Nov. 10, 1914, Serial No. 832,408, filed Apr. 17, 1914. 6 Claims. (Cl. 301—30.)

1. A device of the character described comprising a rim base split transversely thereof at a single point, a cleat on the underside of said base on one of its split ends, having formed thereon a hook, bent outwardly from the body thereof, an aperture cut in the opposite end of said base adapted to receive said hook, a locking clip mounted on the opposite end of said base adjacent to said aperture



and adapted to engage the hook end of said cleat, said clip being adapted to hold and lock the hook end of said cleat in said aperture.

15,167. RAILWAY TIE-PLATE. WARREN M. OSBORN, Chicago, Ill., assignor to Chicago Malleable Castings Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 5, 1921. Serial No. 450,064. Original No. 1,362,732, dated Dec. 21, 1920, Serial No. 369,451, filed Mar. 29, 1920. 5 Claims. (Cl. 238—304.)

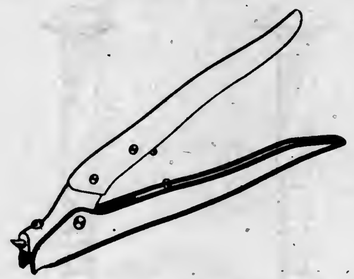


1. A tie plate for rails comprising a body having elongated spike holes extending transversely thereof to receive a spike in the outer end of each hole, and spike-plugs fitting between the spikes and rail-base, each plug having flanges at its base to engage the lower end of its spike-hole, and having a wing of a size to pass through the spike-hole from below in alinement with the length thereof to overlie the base when the spike is driven to place.

15,168. [WITHDRAWN.]

DESIGNS.

58,453. COTTER-PIN PULLER. CARL O. ANDERSON, Brooklyn, N. Y. Filed Mar. 5, 1921. Serial No. 450,110. Term of patent 7 years.



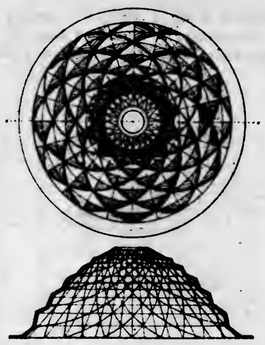
The ornamental design for a cotter pin puller as shown.

58,454. WRENCH. VICTOR A. ANDERSON, Elmwood Park, Ill. Filed Mar. 30, 1921. Serial No. 457,057. Term of patent 7 years.



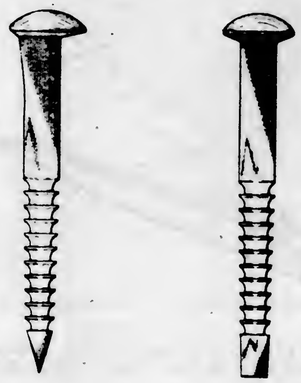
The ornamental design for a wrench, as shown.

58,455. HEADLIGHT-REFLECTOR. GEORGE A. ARNDT, Chicago, Ill., assignor to Emil G. Johanson, Chicago, Ill. Filed Oct. 14, 1919. Serial No. 330,615. Term of patent 7 years.



The ornamental design for a headlight reflector as shown.

58,456. SPIKE. FREDERICK C. BAUER, Sr., Camden, N. J. Filed July 9, 1920. Serial No. 395,165. Term of patent 14 years.



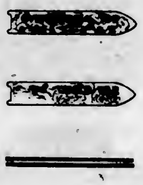
The ornamental design for a spike as shown.

58,457. HANDLE FOR A POCKET-KNIFE. CARL F. BIERBACH, Rochester, N. Y. Filed Dec. 27, 1920. Serial No. 433,496. Term of patent 3½ years.



The ornamental design for a handle for a pocket-knife, as shown.

58,458. HANDLE FOR A POCKET-KNIFE. CARL F. BIERBACH, Rochester, N. Y. Filed Dec. 27, 1920. Serial No. 433,497. Term of patent 3½ years.



The ornamental design for a handle for a pocket knife, as shown.

58,459. BROCADE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,305. Term of patent 3½ years.



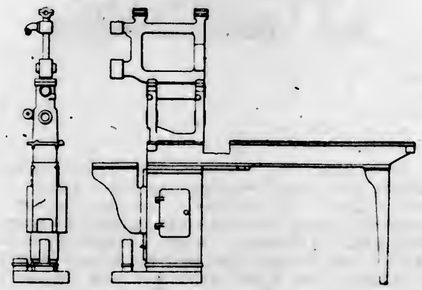
The ornamental design for a brocade fabric, as shown.

58,460. TENSION-SPRING FOR SCISSORS AND SHEARS, OR SIMILAR ARTICLE. JOHN J. CONWAY, Bridgeport, Conn., assignor to The Acme Shear Company, a Corporation of Connecticut. Filed Apr. 18, 1921. Serial No. 462,454. Term of patent 14 years.



The ornamental design for a tension spring for scissors and shears, or similar article, substantially as shown.

58,461. FRAME FOR COMBINATION LATHE, DRILLING, AND-MILLING MACHINES. HUBERT DALTON, New York, N. Y. Filed Feb. 18, 1921. Serial No. 446,184. Term of patent 14 years.



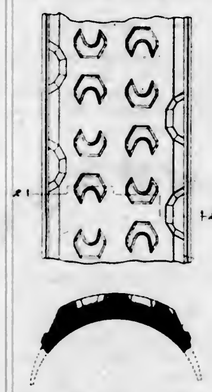
The ornamental design for frames for combination lathe, drilling and milling machines, as shown.

58,462. TOY BLOCK. HENRY C. DIEFFENBACH, Dayton, Ohio. Filed Apr. 22, 1921. Serial No. 463,681. Term of patent 14 years.



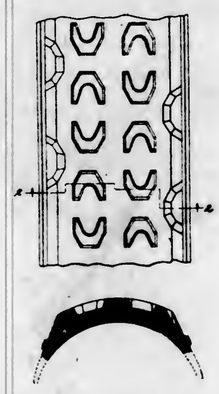
The ornamental design for a toy block, substantially as shown.

58,463. NON-SKID TIRE-TREAD. ELMER N. DOWNES, Charlotte, N. C., assignor to McClaren Rubber Company, Charlotte, N. C., a Corporation of Delaware. Filed Mar. 16, 1920. Serial No. 366,422. Term of patent 14 years.



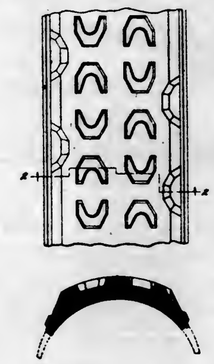
The ornamental design for a non-skid tire tread as shown.

58,464. NON-SKID TIRE-TREAD. ELMER N. DOWNES, Charlotte, N. C., assignor to McClaren Rubber Company, Charlotte, N. C., a Corporation of Delaware. Filed Mar. 16, 1920. Serial No. 366,423. Term of patent 14 years.



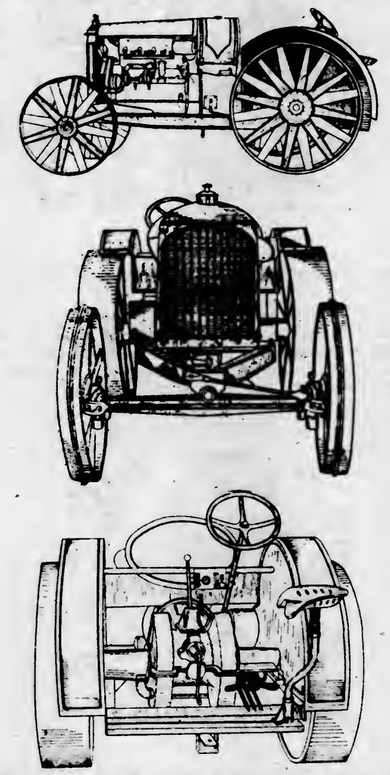
The ornamental design for a non-skid tire tread as shown.

58,465. NON-SKID TIRE-TREAD. ELMER N. DOWNES, Charlotte, N. C., assignor to McClaren Rubber Company, Charlotte, N. C., a Corporation of Delaware. Filed Mar. 16, 1920. Serial No. 366,424. Term of patent 14 years.



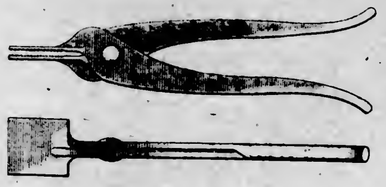
The ornamental design for a non-skid tire-tread as shown.

58,466. TRACTOR. GEORGE WILLIS DUNHAM, New York, N. Y., assignor to Graham Brothers, Evansville, Ind., a Corporation of Indiana. Filed Mar. 29, 1920. Serial No. 369,755. Term of patent 7 years.



The ornamental design for a tractor, substantially as shown.

58,467. PLIERS. FRED S. DURHAM, Allentown, Pa., assignor to Bonney Vise & Tool Works, Inc., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 21, 1921. Serial No. 439,027. Term of patent 14 years.



The ornamental design for pliers, as shown.

58,468. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,292. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,469. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,293. Term of patent 3½ years.



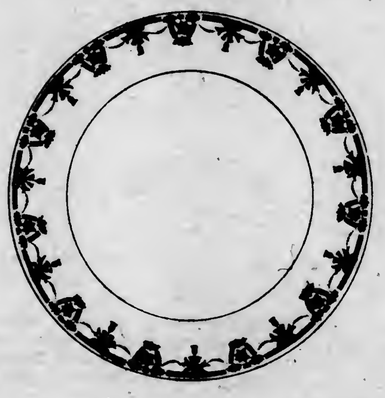
The ornamental design for a textile fabric, as shown.

58,470. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,294. Term of patent 3½ years.



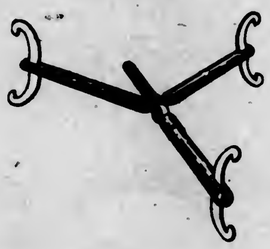
The ornamental design for a textile fabric, as shown.

58,471. PLATE OR SIMILAR ARTICLE. MARTIN M. ENGELHARDT, New York, N. Y., assignor to L. Barth & Son, a Partnership composed of Leopold Barth and Harry Barth. Filed Sept. 25, 1919. Serial No. 326,401. Term of patent 14 years.



The ornamental design for a plate or similar article, as shown.

58,472. TIRE-TOOL. ANDREW J. ENGLISH and CHARLES J. HART, Cincinnati, Ohio. Filed Mar. 9, 1921. Serial No. 450,965. Term of patent 3½ years.



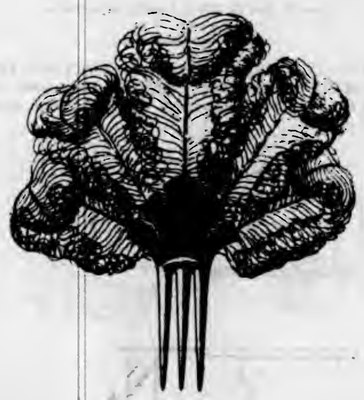
The ornamental design for a tire tool, as shown.

58,473. PERCOLATING-URN. EDWARD A. FARR, Meriden, Conn., assignor to Manning, Bowman & Co., Meriden, Conn., a Corporation of Connecticut. Filed Feb. 3, 1921. Serial No. 442,303. Term of patent 7 years.



The ornamental design for a percolating urn, as shown.

58,474. COMB. BENJAMIN J. FOSTER, New York, N. Y., assignor to Samstag & Hilder Bros., New York, N. Y., a Corporation of New York. Filed Nov. 24, 1920. Serial No. 426,301. Term of patent 14 years.



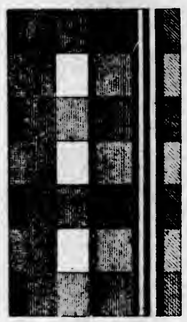
The ornamental design for a comb as shown.

58,475. NARROW FABRIC. DAVID C. FRANK, New York, N. Y., assignor to Pelgram & Meyer, New York, N. Y., a Firm. Filed Oct. 28, 1920. Serial No. 420,301. Term of patent 7 years.



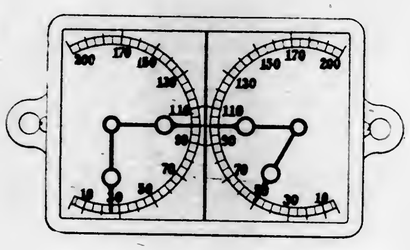
The ornamental design for a narrow fabric substantially as shown and described.

58,476. NARROW FABRIC. DAVID C. FRANK, New York, N. Y., assignor to Pelgram & Meyer, New York, N. Y., a Firm. Filed Oct. 28, 1920. Serial No. 420,302. Term of patent 3½ years.



The ornamental design for a narrow fabric substantially as shown and described.

58,477. PRESSURE-INDICATING GAGE. CHARLES GASTON, Chicago, Ill., assignor to The Ashton Valve Company, Boston, Mass., a Corporation of Massachusetts. Filed June 24, 1920. Serial No. 391,546. Term of patent 14 years.



The ornamental design for a pressure indicating gage, as shown.

58,478. TIRE-TREAD. WARREN S. GAUNTT, Kansas City, Mo. Filed July 29, 1920. Serial No. 399,911. Term of patent 14 years.



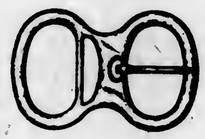
The ornamental design for a tire tread as shown.

58,479. HANDLE OF A SPOON, FORK, OR SIMILAR ARTICLE. JOHN H. HARMSTONE, Attleboro, Mass., assignor to Fessenden and Company, Inc., Providence, R. I., a Corporation of Rhode Island. Filed July 21, 1920. Serial No. 398,029. Term of patent 7 years.



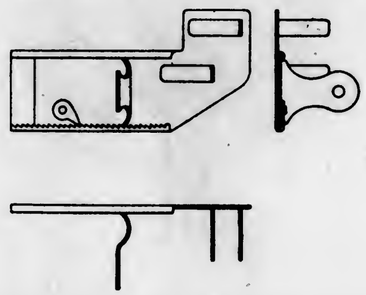
The ornamental design for the handle of a spoon, fork, or similar article, as shown.

58,480. BUCKLE. LEOPOLD HAUSER, New York, N. Y., assignor to Hauser & Weil, New York, N. Y., a Copartnership composed of Leopold Hauser and Simon Weil. Filed Dec. 24, 1920. Serial No. 433,076. Term of patent 14 years.



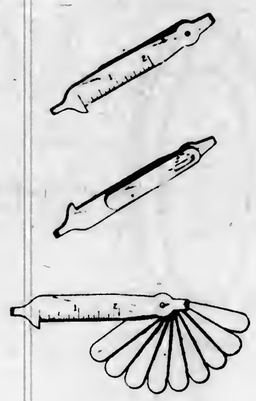
The ornamental design for a buckle as shown.

58,481. COMBINED SHADE AND CURTAIN-POLE BRACKET. FREDERICK L. HAWKINS, Mishawaka, Ind. Filed Dec. 23, 1920. Serial No. 432,883. Term of patent 7 years.



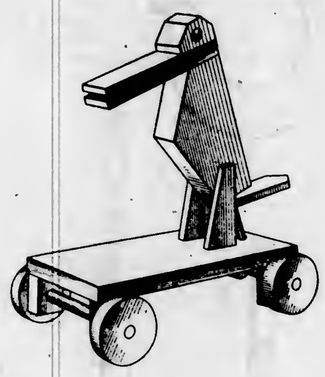
The ornamental design for a combined shade and curtain pole bracket as shown.

58,482. COMBINATION-TOOL. VERNIE R. HELIN, Chicago, Ill. Filed Mar. 11, 1921. Serial No. 451,591. Term of patent 7 years.



The ornamental design for a combination tool, as shown.

58,483. TOY. RAYMOND L. HERMAN, New York, N. Y., assignor to Margaret S. Bartlett, East Orange, N. J. Filed Mar. 16, 1921. Serial No. 452,761. Term of patent 7 years.



The ornamental design for a toy, as shown.

58,484. BUTTON. WILLIAM W. HOBE, New York, N. Y. Filed Sept. 29, 1920. Serial No. 413,617. Term of patent 3½ years.



The ornamental design for a button as shown.

58,485. BUTTON. WILLIAM W. HOBE, New York, N. Y. Filed Sept. 29, 1920. Serial No. 413,618. Term of patent 3½ years.



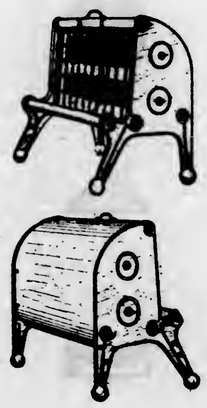
The ornamental design for a button as shown.

58,486. BUTTON. William W. Hobb, New York, N. Y. Filed Sept. 29, 1920. Serial No. 413,619. Term of patent 3½ years.



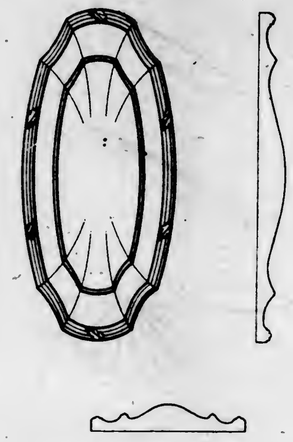
The ornamental design for a button as shown and described.

58,487. ELECTRIC HEATER. Andrew J. Holmes, Tacoma, Wash. Filed Sept. 14, 1920. Serial No. 410,336. Term of patent 14 years.



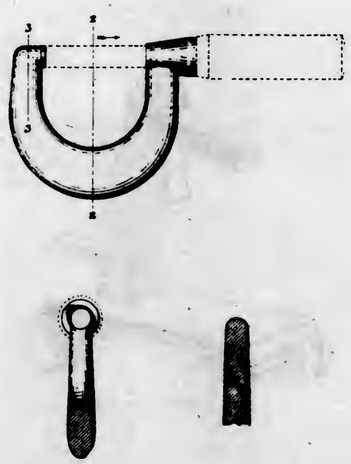
The ornamental design for an electric heater as shown.

58,488. PLATE FOR LIGHTING-FIXTURES. Hamilton T. Howell, New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Dec. 20, 1920. Serial No. 432,118. Term of patent 14 years.



The ornamental design for a plate for lighting fixtures as shown.

58,489. HANDLE FOR A MICROMETER-CALIPER. Fernando Oscar Jaques, Jr., Providence, R. I., assignor to The Central Tool Company, Cranston, R. I., a Corporation of Rhode Island. Filed May 29, 1920. Serial No. 385,373. Term of patent 14 years.



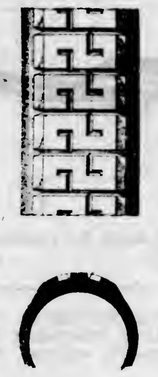
The ornamental design for a handle of a micrometer caliper, as shown.

58,490. VEHICLE. Frederick A. Johannecht, Birmingham, Ala. Filed Feb. 28, 1921. Serial No. 447,332. Term of patent 14 years.



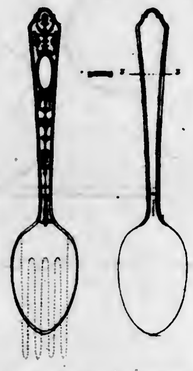
The ornamental design for a vehicle, as shown.

58,491. TIRE-TREAD. Ernest F. Kling, Batavia, N. Y., assignor to The Batavia Rubber Company, Batavia, N. Y. Filed Jan. 21, 1921. Serial No. 439,037. Term of patent 7 years.



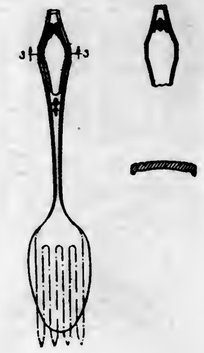
The ornamental design for a tire tread, substantially as shown.

58,492. HANDLE FOR A SPOON, FORK, OR SIMILAR ARTICLE. Fredrick W. Koonz, Greenfield, Mass., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass., a Corporation of Massachusetts. Filed Feb. 8, 1921. Serial No. 443,480. Term of patent 14 years.



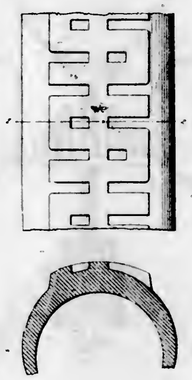
The ornamental design for a handle for a spoon, fork, or similar article as shown.

58,493. SPOON, FORK, OR SIMILAR ARTICLE. Thomas B. Lashar, Fairfield, Conn., assignor to International Silver Company, Meriden, Conn., a Corporation of New Jersey. Filed Oct. 4, 1920. Serial No. 414,682. Term of patent 7 years.



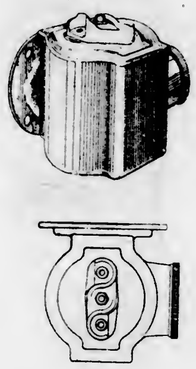
The ornamental design for a spoon, fork, or similar article, substantially as shown.

58,494. TIRE. Emery Leslie Lawlor, Youngstown, Ohio. Filed Dec. 9, 1920. Serial No. 429,591. Term of patent 7 years.



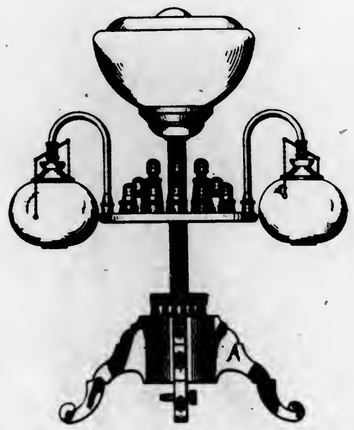
The ornamental design for a tire, as shown.

58,495. CASING OF AN INDUCTION-COIL. THOMAS L. LEE, Rochester, N. Y., assignor to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 24, 1917. Serial No. 208,718. Term of patent 14 years.



The ornamental design for a casing of an induction-coil, as shown.

58,496. ILLUMINATING DEVICE. GIUSEPPE MANNINO, Philadelphia, Pa. Filed Dec. 14, 1920. Serial No. 430,762. Term of patent 7 years.



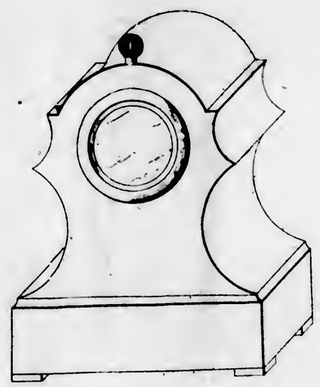
The ornamental design for an illuminating device, as shown.

58,497. LIGHTING-FIXTURE ARM. ABRAHAM MILLER, New York, N. Y. Filed Dec. 28, 1920. Serial No. 433,653. Term of patent 3½ years.



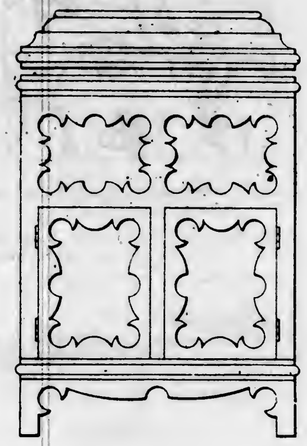
The ornamental design for a lighting fixture arm, substantially as shown.

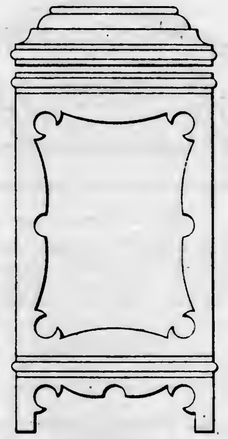
58,498. WATCH-MOVEMENT CASE. SISSAK K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Aug. 16, 1920. Serial No. 403,945. Term of patent 3½ years.



The ornamental design for a watch-movement-case, as shown.

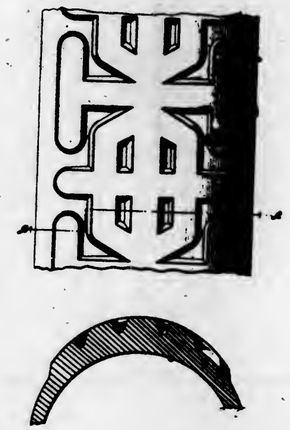
58,499. PHONOGRAPH-CABINET. SISSAG K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Mar. 28, 1921. Serial No. 456,500. Term of patent 3½ years.





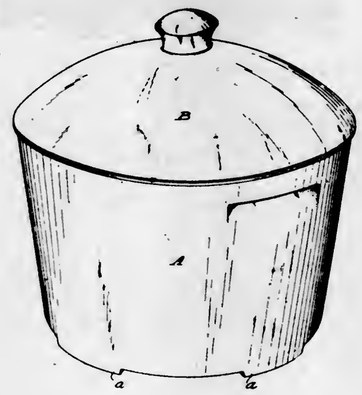
The ornamental design for a phonograph-cabinet as shown.

58,500. RUBBER TIRE. CLARENCE S. PARK, East Butler, Pa., assignor to Corona Cord Tire Company, East Butler, Pa., a Corporation of Pennsylvania. Filed Nov. 15, 1920. Serial No. 424,301. Term of patent 14 years.



The ornamental design for a rubber tire, as shown.

58,501. ICELESS REFRIGERANT. EPHRAIM S. PEASE, Buffalo, N. Y. Filed July 6, 1920. Serial No. 394,364. Term of patent 7 years.



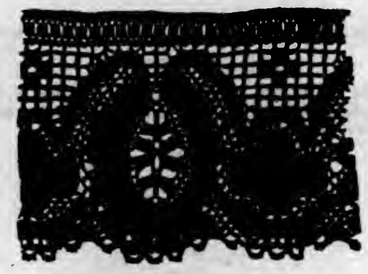
The ornamental design of an iceless refrigerant, as shown and described.

58,502. NAIL-SET. WILLIAM A. PECK, New Haven, Conn., assignor to The Simpson-Peck Manufacturing Company, New Haven, Conn., a Corporation of Connecticut. Filed Mar. 5, 1921. Serial No. 450,092. Term of patent 14 years.



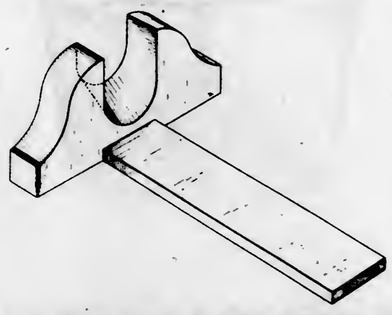
The ornamental design for a nail set as shown.

58,503. LACE. GEORGE RADFORD, Phenix, R. I., assignor to Richmond Lace Works, Alton, R. I., a Corporation of Maine. Filed Feb. 16, 1921. Serial No. 445,560. Term of patent 7 years.



The ornamental design for lace, as shown.

58,504. TIRE-RACK. WILLIAM T. RANCEL, Oakland, Calif. Filed Feb. 9, 1921. Serial No. 443,711. Term of patent 14 years.



The ornamental design for a tire rack, as shown.

58,505. TEXTILE FABRIC. WILLIAM G. REITH, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,312. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,506. SEESAW. GUS SCHALLER, St. Louis, Mo. Filed Mar. 10, 1921. Serial No. 451,300. Term of patent 14 years.



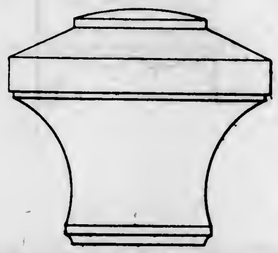
The ornamental design for a seesaw, as shown.

58,507. MUSIC-ROLL-REPAIR DEVICE. JULIUS SCHIRRA, Pittsburgh, Pa. Filed Nov. 20, 1920. Serial No. 425,566. Term of patent 3½ years.



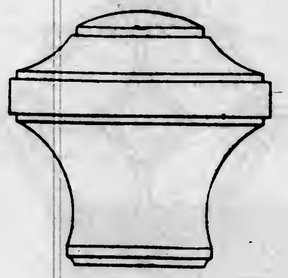
The ornamental design for a music roll repair device as shown.

58,508. CAP FOR POSTS. ABRAHAM J. SCHULTZ, Newark, N. J., assignor to Colonial Stamping Company, Inc., a Corporation of New Jersey. Filed Feb. 21, 1920. Serial No. 360,396. Term of patent 3½ years.



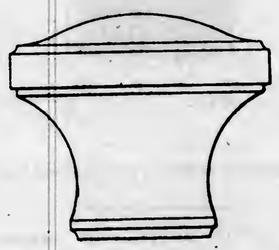
The ornamental design for a cap for posts as shown.

58,509. CAP FOR POSTS. ABRAHAM J. SCHULTZ, Newark, N. J., assignor to Colonial Stamping Company, Inc., a Corporation of New Jersey. Filed Feb. 21, 1920. Serial No. 360,397. Term of patent 3½ years.



The ornamental design for a cap for posts as shown.

58,510. CAP FOR POSTS. ABRAHAM J. SCHULTZ, Newark, N. J., assignor to Colonial Stamping Company, Inc., a Corporation of New Jersey. Filed Feb. 21, 1920. Serial No. 360,398. Term of patent 3½ years.



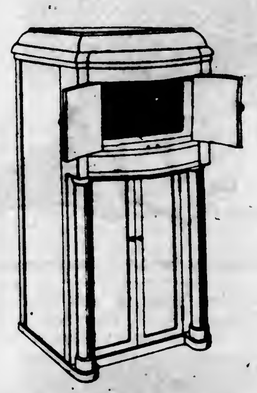
The ornamental design for a cap for posts as shown.

58,511. EMBLEM, BADGE, BUTTON, PIN, FOB, RING, OR LIKE ARTICLE OF MANUFACTURE. COURTNEY W. SHROPSHIRE, Birmingham, Ala., assignor to International Association of Civitan Clubs, Birmingham, Ala., a Corporation of Alabama. Filed Aug. 27, 1920. Serial No. 406,492. Term of patent 14 years.



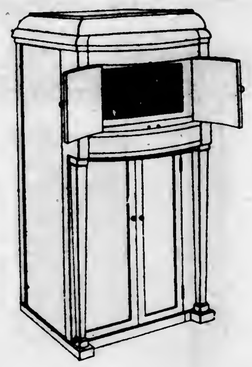
The ornamental design for an emblem, badge, button, pin, fob, ring, or like article of manufacture as shown.

58,512. TALKING-MACHINE CASE. FRANK W. STECK, Buffalo, N. Y. Filed Jan. 22, 1921. Serial No. 430,303. Term of patent 14 years.



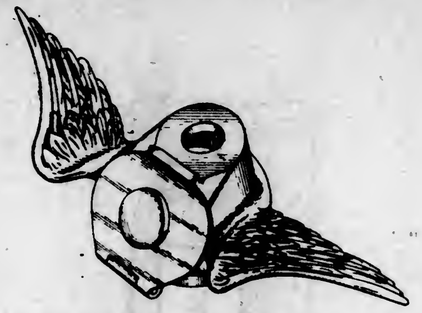
The ornamental design for a talking machine case, as shown.

58,513. TALKING-MACHINE CASE. FRANK W. STECK, Buffalo, N. Y. Filed Jan. 22, 1921. Serial No. 439,304. Term of patent 14 years.



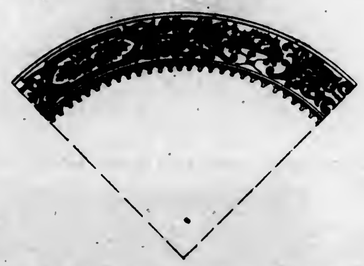
The ornamental design for a talking machine case, as shown.

58,514. RADIATOR-CAP. HARRY J. TAUSCHER, Chicago, Ill., assignor to Up to Date Machine Works, Chicago, Ill. Filed Apr. 18, 1921. Serial No. 462,461. Term of patent 3½ years.



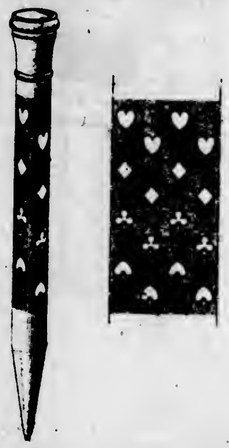
The ornamental design for a radiator cap, as shown.

58,515. DISH OR SIMILAR ARTICLE. JUSTIN THARALD, Weehawken, N. J. Filed Feb. 25, 1921. Serial No. 447,889. Term of patent 14 years.



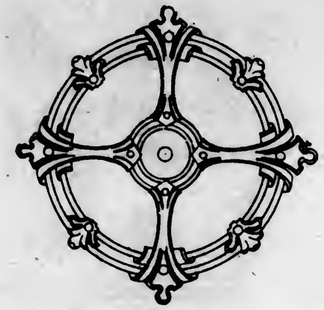
The ornamental design for a dish or similar article, as shown.

58,516. PEN OR PENCIL CASE. JOHN C. WAHL, Chicago, Ill., assignor to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 17, 1921. Serial No. 438,011. Term of patent 14 years.



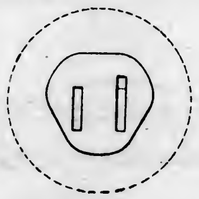
The original design for a pen or pencil case as shown.

58,517. PLATE FOR LIGHTING-FIXTURES. ERNEST A. WALKER, Newark, N. J., assignor to Artcraft Fixture Company, Newark, N. J., a Corporation of New Jersey. Filed Oct. 11, 1920. Serial No. 416,334. Term of patent 7 years.



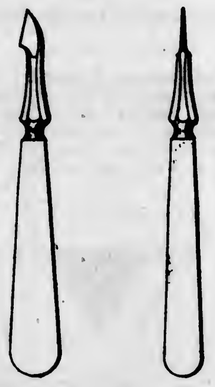
The ornamental design for a plate for lighting fixtures, as shown.

58,518. ELECTRICAL RECEPTACLE. ERNEST CANTELO WHITE, New York, N. Y., assignor to Electric Outlet Company, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1921. Serial No. 437,364. Term of patent 14 years.



The ornamental design of an electrical receptacle, as shown.

58,519. MANICURE IMPLEMENT. BERNARD WIGDER, Newark, N. J. Filed Dec. 4, 1920. Serial No. 428,397. Term of patent 7 years.



The ornamental design for a manicure implement as shown.

58,520. SPOON-HANDLE. THEODOSIUS ALBERT WILLIAMS, Battle Ground, Wash. Filed Mar. 29, 1919. Serial No. 286,179. Term of patent 14 years.



The ornamental design for a spoon-handle as shown.

58,521. KNITTED OR NETTED FABRIC. SIDNEY WORMS, New Rochelle, N. Y., assignor to Franklin Knitting Mills, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1920. Serial No. 429,810. Term of patent 14 years.



The ornamental design for a knitted or netted fabric substantially as shown.

58,522. KNITTED OR NETTED FABRIC. SIDNEY WORMS, New Rochelle, N. Y., assignor to Franklin Knitting Mills, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1920. Serial No. 429,811. Term of patent 14 years.

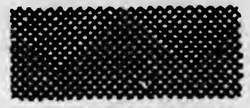
The ornamental design for a knitted or netted fabric substantially as shown.

58,523. KNITTED OR NETTED FABRIC. SIDNEY WORMS, New Rochelle, N. Y., assignor to Franklin Knitting Mills, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1920. Serial No. 429,812. Term of patent 14 years.



The ornamental design for a knitted or netted fabric substantially as shown.

58,524. KNITTED OR NETTED FABRIC. SIDNEY WORMS, New Rochelle, N. Y., assignor to Franklin Knitting Mills, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1920. Serial No. 429,814. Term of patent 14 years.



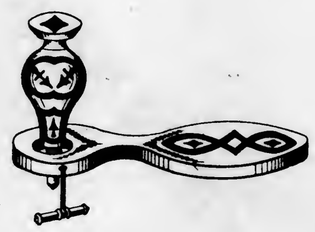
The ornamental design for a knitted or netted fabric substantially as shown.

58,525. KNITTED OR NETTED FABRIC. SIDNEY WORMS, New Rochelle, N. Y., assignor to Franklin Knitting Mills, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1920. Serial No. 429,815. Term of patent 14 years.



The ornamental design for a knitted or netted fabric substantially as shown.

58,526. WHIRLING TOY. JOSEPH ZBIKOWSKI, Cleveland, Ohio. Filed Mar. 9, 1921. Serial No. 450,983. Term of patent 14 years.



The ornamental design for a whirling toy as shown.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 26, 1921.

[PUBLISHED AUGUST 8, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 120,395. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CHAS. D. STONE COMPANY, Chicago, Ill. Filed July 9, 1919.

KOSMOS

Particular description of goods.—Snap-Fasteners for Garments.

Claims use since May, 1912.

Ser. No. 129,593. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HENRY H. GEARY, Fostoria, Ohio. Filed Mar. 12, 1920.

SPO.

Particular description of goods.—Portfolios.

Claims use since Feb. 15, 1920.

Ser. No. 129,898. (CLASS 37. PAPER AND STATIONERY.) LEVARAC PAPER PRODUCTS CORPORATION, New York, N. Y. Filed Mar. 18, 1920.

Levarac

Particular description of goods.—Paper Used for Printing and Drawing, Paper-Board, Cover-Paper, Blotting-Paper, Typewriting-Paper, Tissue-Paper, Toilet-Paper, Wax Paper, Mailing-Envelops, Pens—Namely, Metallic Pen-Points and Fountain-Pens; Pencils—Namely, Lead-Pencils, Magazine and Mechanical Pencils; and Copy-Presses.

Claims use since about November, 1919.

Ser. No. 130,773. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ROY A. RAYMOND, Oakland, Calif. Filed Apr. 7, 1920.

RE-VI-VO

Particular description of goods.—Cleaning Compound for Carpets, Rugs, Silks, Laces, and Fabrics and Cleanable Surfaces in General.

Claims use since May, 1910.

Ser. No. 131,514. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILDROOT CO. INC., Buffalo, N. Y. Filed Apr. 22, 1920.

TAROLEUM

Particular description of goods.—A Shampoo.

Claims use since about Mar. 6, 1920.

Ser. No. 131,520. (CLASS 39. CLOTHING.) ESSEX RUBBER COMPANY, Trenton, N. J. Filed Apr. 23, 1920.

HIKER

Particular description of goods.—Rubber and Composition Soles and Heels.

Claims use since Apr. 10, 1920.

Ser. No. 131,701. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DEAN & WILLIAMS CO., Chicago, Ill., and Harbor Springs, Mich. Filed Apr. 27, 1920.



Particular description of goods.—Toy Auto Dump-Truck.
Claims use since Jan. 1, 1920.

Ser. No. 131,884. (CLASS 37. PAPER AND STATIONERY.) STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Apr. 30, 1920.



No registration rights are claimed for the word "Quality" apart from the mark shown in the drawing.
Particular description of goods.—Unmounted Photographic and Blue-Print Paper.
Claims use since June, 1912.

Ser. No. 132,869. (CLASS 26. MUSICAL INSTRUMENTS AND SUPPLIES.) THE AEOLIAN COMPANY, New York, N. Y. Filed May 25, 1920.

MELODY

Particular description of goods.—Perforated Music-Rolls for Player Pianos and Organs.
Claims use since Nov. 17, 1914.

Ser. No. 133,001. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY J. SIEDS, Boston, Mass. Filed May 26, 1920.

ORANGE BELLE

No claim being made to the word "Orange" apart from the mark shown.
Particular description of goods.—Syrups for Soft Drinks and Flavors and Flavoring Extracts for Soft Drinks.
Claims use since about Mar. 1, 1920.

Ser. No. 133,207. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GRAY & DAVIS INC., Cambridge, Mass. Filed June 3, 1920.



Particular description of goods.—Electrical Systems—Namely, Electric Engine-Starting Systems, Ignition and Generating Systems, Switches, and Electric Lamps.
Claims use since 1910.

Ser. No. 133,342. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SATRA ASPETX, Brooklyn, N. Y. Filed June 4, 1920.



Particular description of goods.—A Medicated Salve for the Treatment of Cuts or Bruises.
Claims use since about July 1, 1917.

Ser. No. 133,829. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHESTER H. JOHNSON, Anaheim, Calif. Filed June 17, 1920.



I hereby disclaim the words "Trade-Mark."
Particular description of goods.—Dehydrated and Concentrated Citrus Fruits.
Claims use since June 5, 1920.

Ser. No. 134,430. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE RED BALL COMPANY, Madrid, Iowa. Filed June 30, 1920.



The word "Red" and the ball are shown in red.
Particular description of goods.—Maltless Fruit Beverages Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as Soft Drink—viz., Raspberry Fruit Nectar, Grapefruit Nectar, and Cherry Fruit Nectar.
Claims use since August, 1918.

Ser. No. 134,743. (CLASS 31. FILTERS AND REFRIGERATORS.) ARLINGTON REFRIGERATOR COMPANY, INC., Arlington, Vt. Filed July 9, 1920.

ARLINGTON ASBESTONE

Particular description of goods.—Refrigerators.
Claims use since Jan. 3, 1920.

Ser. No. 135,066. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed July 16, 1920.

RUSCO

Particular description of goods.—Halters, Surcingles, Girths, Web Harness, and Auto, Bag, School, Lowering and Bundling Straps.
Claims use since on or about Mar. 1, 1918.

Ser. No. 135,638. (CLASS 39. CLOTHING.) ALICE JANE DOUGHERTY, Flushing, N. Y. Filed July 31, 1920.



Particular description of goods.—Females' House-Dresses, Aprons, Street-Dresses.
Claims use since Apr. 1, 1920.

Ser. No. 136,565. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ABRAHAM LARGMAN, Philadelphia, Pa. Filed Aug. 27, 1920.

LARGMAN

Particular description of goods.—Dress-Belting.
Claims use since Apr. 15, 1920.

Ser. No. 131,701. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DEAN & WILLIAMS CO., Chicago, Ill., and Harbor Springs, Mich. Filed Apr. 27, 1920.

JUJU

Particular description of goods.—Toy Auto Dump-Truck.
Claims use since Jan. 1, 1920.

Ser. No. 131,884. (CLASS 37. PAPER AND STATIONERY.) STRATHMORE PAPER COMPANY, West Springfield, Mass. Filed Apr. 30, 1920.

STRATHMORE QUALITY

No registration rights are claimed for the word "Quality" apart from the mark shown in the drawing.
Particular description of goods.—Unsensitized Photographic and Blue-Print Papers.
Claims use since June, 1912.

Ser. No. 132,909. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE AEOLIAN COMPANY, New York, N. Y. Filed May 25, 1920.

MELODY

Particular description of goods.—Perforated Music-Rolls for Player-Pianos and Organs.
Claims use since Nov. 17, 1914.

Ser. No. 133,001. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY J. STEIN, Boston, Mass. Filed May 26, 1920.

ORANGE-BELLE

No claim being made to the word "Orange" apart from the mark shown.
Particular description of goods.—Syrups for Soft Drinks and Flavors and Flavoring Extracts for Soft Drinks.
Claims use since about Mar. 1, 1920.

Ser. No. 133,207. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) GRAY & DAVIS INC., Cambridge, Mass. Filed June 3, 1920.

GD

Particular description of goods.—Electrical Systems—Namely, Electric Engine-Starting Systems, Ignition and Generating Systems, Switches, and Electric Lamps.
Claims use since 1910.

Ser. No. 133,343. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAYDA AAFOUA, Brooklyn, N. Y. Filed June 4, 1920.

BEDEWEA

Particular description of goods.—A Medicated Salve for the Treatment of Cuts or Bruises.
Claims use since about July 1, 1917.

Ser. No. 133,829. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHESTER H. JOHNSON, Anaheim, Calif. Filed June 17, 1920.

TRADE MARK
Jelliskrubes

I hereby disclaim the words "Trade-Mark."
Particular description of goods.—Dehydrated and Concentrated Citrus Fruits.
Claims use since June 5, 1920.

Ser. No. 134,430. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE RED BALL COMPANY, Madrid, Iowa. Filed June 30, 1920.

RED

The word "Red" and the ball are shown in red.
Particular description of goods.—Maltless Fruit Beverages Containing Less Than One-Half of One Per Cent. of Alcohol, by Volume, Sold as Soft Drink—viz., Raspberry Fruit Nectar, Grapefruit Nectar, and Cherry Fruit Nectar.
Claims use since August, 1918.

Ser. No. 134,743. (CLASS 31. FILTERS AND REFRIGERATORS.) ARLINGTON REFRIGERATOR COMPANY, INC., Arlington, Vt. Filed July 9, 1920.

ARLINGTON ASBESTONE

Particular description of goods.—Refrigerators.
Claims use since Jan. 3, 1920.

Ser. No. 135,066. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed July 16, 1920.

RUSCO

Particular description of goods.—Halters, Surcingles, Girths, Web Harness, and Auto, Bag, School, Lowering and Bundling Straps.
Claims use since on or about Mar. 1, 1918.

Ser. No. 135,638. (CLASS 39. CLOTHING.) ALICE JANE DOUGHERTY, Flushing, N. Y. Filed July 31, 1920.

POLLYANNA
REGISTERED TRADE MARK

Particular description of goods.—Females' House-Dresses, Aprons, Street-Dresses.
Claims use since Apr. 1, 1920.

Ser. No. 136,565. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) ABRAHAM LARGMAN, Philadelphia, Pa. Filed Aug. 27, 1920.

LARGMAN

Particular description of goods.—Dress-Belting.
Claims use since Apr. 15, 1920.

Ser. No. 136,620. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEO DREYFUS, New York, N. Y. Filed Aug. 30, 1920.



Particular description of goods.—Aromatic Alkaline Powder for Mouth and Tooth Washes.
Claims use since January, 1919.

Ser. No. 136,819. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YANGTZE CORPORATION, New York, N. Y. Filed Sept. 3, 1920.



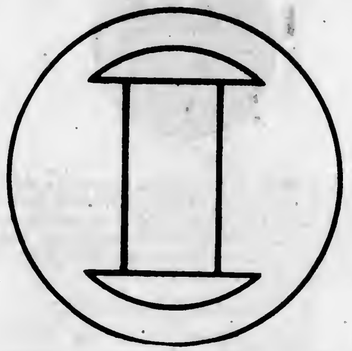
The symbols shown in the drawing have the following meaning: The figure on the left, which resembles an "O," symbolizes the sun, and that on the right, which resembles a "D," symbolizes the moon. Together these characters spell the word "Ming," which means "illustrious."
Particular description of goods.—Tea.
Claims use since about August, 1920.

Ser. No. 136,892. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SARETTA FARWELL HINCKSON, Toronto, Ontario, Canada. Filed Sept. 7, 1920.



No claim is made to the words "Preparations," "Reliable," "Protective," and "Efficient" apart from the mark shown in the drawing.
Particular description of goods.—Medicinal Preparations for the Treatment of the Hair and Scalp.
Claims use since May 1, 1920.

Ser. No. 137,280. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ROBERT BOSCH AKTIENGESELLSCHAFT, Stuttgart, Germany. Filed Sept. 17, 1920.



Particular descriptions of goods.—Electrical Apparatus Comprising Magneto-Electric Ignition Devices, Ignition Coils, Distributers, Interrupters, Spark-Plugs, Shaft-Couplings, Automatic Spark-Timers, Dynamos, Electromotors, Electric Starting Apparatus for Internal-Combustion Engines, Electric Lamps for Motor Vehicles and Cycles, Electric-Light Bulbs, Safety-Fuses, Electric Horns, Primary Batteries, Storage Batteries, Transformers, Automatic Switches, Automatic Cut-Outs, Automatic Regulators for Electric Machines, and Cables.
Claims use since Dec. 14, 1918.

Ser. No. 137,455. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ERWIN COTTON MILLS CO., West Durham, N. C. Filed Sept. 22, 1920.



Particular description of goods.—Denims in the Piece.
Claims use since Jan. 15, 1908.

Ser. No. 138,011. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED M. KRONBERGER, Boston, Mass. Filed Oct. 6, 1920.

Particular description of goods.—A Preparation for the Removal of Corns.
Claims use since May 15, 1920.

Ser. No. 138,113. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) VOSS BROTHERS MANUFACTURING CO., Davenport, Iowa. Filed Oct. 8, 1920.



No claim is made to the exclusive use of the word "Washer" apart from the mark as shown.

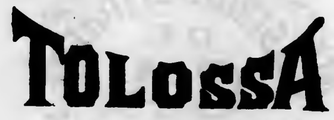
Particular description of goods.—Laundry-Washing Machines.
Claims use since June 12, 1920.

Ser. No. 138,125. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCIS L. HOLLIDAY, Westerly, R. I. Filed Oct. 9, 1920.



Particular description of goods.—A Preparation for the Treatment of Asthma.
Claims use since Oct. 4, 1920.

Ser. No. 138,477. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CISNEROS & CO. INC., New York, N. Y., and Rahway, N. J. Filed Oct. 19, 1920.



Particular description of goods.—Wheat-Flour.
Claims use since Mar. 15, 1918.

Ser. No. 138,555. (CLASS 31. FILTERS AND REFRIGERATORS.) J. L. FISHERIES CORPORATION, New York, N. Y. Filed Oct. 20, 1920.



Particular description of goods.—Fresh-Fish Cooling and Preserving Apparatus Consisting of Cooling-Tanks, Cold-Storage Rooms, and Refrigerating-Machines Combined and forming Complete Systems.
Claims use since 1919.

Ser. No. 138,716. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ERICH HAUSDORF, Charlottenburg, Germany. Filed Oct. 23, 1920.

BENAUDI

Particular description of goods.—Telephonic Apparatus.
Claims use since Aug. 1, 1919.

Ser. No. 138,753. (CLASS 17. TOBACCO PRODUCTS.) HENRY CLAY AND BOCK & CO. LTD., New York, N. Y. Filed Oct. 25, 1920.



No claim is made to the word "Habana" apart from the mark shown in the drawing.
Particular description of goods.—Cigars.
Claims use since 1882.

Ser. No. 138,761. (CLASS 17. TOBACCO PRODUCTS.) HAVANA COMMERCIAL COMPANY, New York, N. Y. Filed Oct. 25, 1920.



No claim is made to the word "Habana" apart from the mark shown in the drawing.
Particular description of goods.—Cigars.
Claims use since 1878.

Ser. No. 138,762. (CLASS 17. TOBACCO PRODUCTS.) HAVANA CIGAR AND TOBACCO FACTORIES, LTD., New York, N. Y. Filed Oct. 25, 1920.



No claim is made to the word "Habana" apart from the mark shown in the drawing.
Particular description of goods.—Cigars.
Claims use since 1882.

Ser. No. 138,764. (CLASS 17. TOBACCO PRODUCTS.) HAVANA CIGAR AND TOBACCO FACTORIES, LTD., New York, N. Y. Filed Oct. 25, 1920.



No claim is made to the word "Habana" apart from the mark shown in the drawing.
Particular description of goods.—Cigars.
Claims use since 1882.

Ser. No. 138,961. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) S. ROBERT SCHWARTZ & BRO., New York, N. Y. Filed Oct. 29, 1920.



No claim is made to the words "Trade Mark" and "Adjustable Lamps" apart from the mark shown in the drawing.
Particular description of goods.—Portable Electric Lamps.
Claims use since Oct. 11, 1920.

Ser. No. 139,135. (CLASS 12. CONSTRUCTION MATERIALS.) VELVETILE FLOOR CO., Chicago, Ill. Filed Nov. 3, 1920.



No exclusive claim being made to the words "Magnesite Stucco" except as a part of said trade-mark.
Particular description of goods.—Stucco Composition.
Claims use since on or about July 1, 1920.

Ser. No. 139,136. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EDWIN L. WIEGAND, Pittsburgh, Pa. Filed Nov. 3, 1920.

CHROMALOX

Particular description of goods.—Electrical Heating and Resistor Elements, Particularly Electric-Sadiron-Heating Units.
Claims use since Oct. 16, 1920.

Ser. No. 139,308. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. J. REACH COMPANY, Philadelphia, Pa. Filed Nov. 6, 1920.

EAGLE

Particular description of goods.—Golf-Balls.
Claims use since about Oct. 1, 1919.

Ser. No. 139,398. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) E. I. HORSMAN & ÆTNA DOLL CO. INC., New York, N. Y. Filed Nov. 9, 1920.

"PINAFORE"

Particular description of goods.—Dolls.
Claims use since Oct. 29, 1920.

Ser. No. 139,630. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REDHILL MFG. CO., Pittsburgh, Pa. Filed Nov. 13, 1920.



The drawing shows the conventional lining for red, no claim being made to the words "21 Doses" and "Pittsburgh, Pa."
Particular description of goods.—A Medicine for Use in the Treatment of Indigestion and Dyspepsia.
Claims use since Sept. 11, 1920.

Ser. No. 139,689. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WEXLER, GOLDSTEIN & CO., Philadelphia, Pa. Filed Nov. 15, 1920.

Hug'm and Squeez'm

Particular description of goods.—Dolls.
Claims use since Oct. 21, 1921.

Ser. No. 139,706. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) COLUMBIA POWDER PUFF CO., New York, N. Y. Filed Nov. 16, 1920.

PINK LADY

Particular description of goods.—Powder-Puffs.
Claims use since June 1, 1920.

Ser. No. 139,913. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. G. SPALDING & BROS., New York, N. Y. Filed Nov. 20, 1920.

SKY-IRON

Particular description of goods.—Golf-Clubs.
Claims use since about June 15, 1920.

Ser. No. 140,103. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EASTERN TUBE AND TOOL COMPANY, INC., Brooklyn, N. Y. Filed Nov. 24, 1920.

Ettco STEEL

"Steel" being disclaimed apart from the mark as shown.
Particular description of goods.—Armored Conductors and Flexible Steel Conduits.
Claims use since Nov. 8, 1920.

Ser. No. 140,193. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MAY B. MORAN, Kansas City, Mo. Filed Nov. 26, 1920.

WEE WEE

Particular description of goods.—Dolls.
Claims use since Feb. 1, 1920.

Ser. No. 140,379. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JULIA E. GREENE, Philadelphia, Pa. Filed Nov. 29, 1920.

BEDDY-BYE

Particular description of goods.—Rag Dolls.
Claims use since on or about Oct. 12, 1920.

Ser. No. 140,395. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OTTO MAUSERT, San Francisco, Calif. Filed Nov. 29, 1920.

PLANTLAX

Particular description of goods.—Liver-Tonic.
Claims use since Nov. 12, 1920.

Ser. No. 140,638. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOU J. EPPINGER, Detroit, Mich. Filed Dec. 6, 1920.

DARDEVLE

Particular description of goods.—Artificial Fishing-Bait.
Claims use since December, 1918.

Ser. No. 140,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GOUDEY GUM CO., Boston, Mass. Filed Dec. 9, 1920.

Oh Boy

Particular description of goods.—Chewing-Gum.
Claims use since Oct. 25, 1918.

Ser. No. 140,877. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DOCTOR'S ESSENTIAL FOODS CO., Orange, N. J. Filed Dec. 10, 1920.



No claim being made to the pictorial representation of the bread nor to the word "Bread."
Particular description of goods.—Bread.
Claims use since Jan. 15, 1920.

Ser. No. 140,955. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JORDAN MARSH COMPANY, Boston, Mass. Filed Dec. 11, 1920.

"Avona"

Particular description of goods.—Leather Foot-Balls.
Claims use since Nov. 29, 1920.

Ser. No. 141,742. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE ADOLPH COORS B. & M. COMPANY, Golden, Colo. Filed Jan. 3, 1921.



Particular description of goods.—Non-Alcoholic Maltless Cereal Beverages Sold as Soft Drinks.
Claims use since about March, 1915.

Ser. No. 141,985. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD ELSWORTH LEEPER, Council Bluffs, Iowa. Filed Jan. 8, 1921.

Wa-Sca-Na

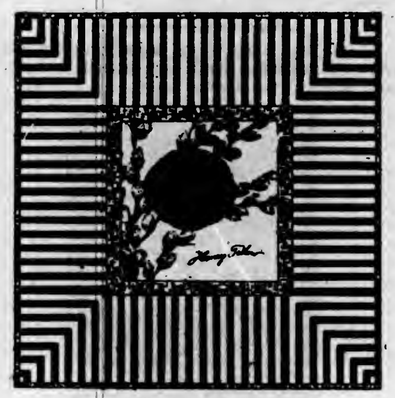
Particular description of goods.—Medicines Used in Cases of Stomach Trouble, Rheumatism, Catarrh, Pimples, Boils, Heart Trouble, Headache, Nervousness, and Run-Down and Worn-Out Systems.
Claims use since Dec. 15, 1910.

Ser. No. 142,079. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) GEORG JENSENS SÖLVSMEDIE A/S, Copenhagen, Denmark. Filed Jan. 11, 1921.

GEORG JENSEN

Particular description of goods.—Bracelets, Brooches and other Jewelry for Personal Wear, (Not Including Watches.) Silver Trays, Teapots, Coffee-Pots, Dishes, Plates, Vases, Jars, Pitchers, Sugar-Basins, Cream-Jugs, Water-Jugs, Bowls, Cups, Center Ornaments for Tables, Spoons, Knives, Forks, Cigarette-Cases, Cigar-Cases, Signets, Jugs, and Mugs, All of the Foregoing Articles Being Made of or Plated with Precious Metal.
Claims use since 1919.

Ser. No. 142,116. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDA J. TETLOW, Philadelphia, Pa. Filed Jan. 11, 1921.



Particular description of goods.—Face-Powder, Talcum Powder, Toilet Water, Perfumes, Rouge, Powder Compacts, and Shampoo.
Claims use since Oct. 15, 1920.

Ser. No. 142,144. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THEODORE GOTTMANN & SONS, Chicago, Ill. Filed Jan. 12, 1921.



Particular description of goods.—Candy.
Claims use since 1914.

Ser. No. 142,452. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PLOUGH CHEMICAL COMPANY, Memphis, Tenn. Filed Jan. 19, 1921.

C-2223

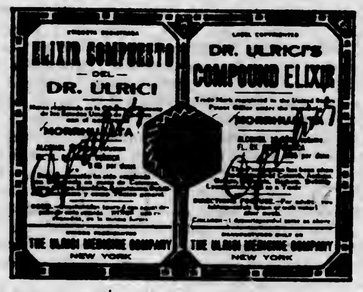
Particular description of goods.—Medicine for Rheumatism, Gout, Sciatica, Lumbago, and other Blood Diseases.
Claims use since Apr. 1, 1904.

Ser. No. 142,478. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EYERS DRUG & CHEMICAL CO., Gloucester, Mass. Filed Jan. 20, 1921.

CAJOL

Particular description of goods.—A Skin-Ointment.
Claims use since Jan. 10, 1921.

Ser. No. 142,545. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ULRICI MEDICINE CO., New York, N. Y. Filed Jan. 20, 1921.



No claim being made to the exclusive use of the following words apart from the mark as shown on the drawing:

"Etiqueta Registrada, Elixir Compuesto del Marca registrada en la Oficina de Patente de los Estados Unidos de América con el nombre de, Alcohol 10% per volumen. Ex. Fl. De Nuez Vómica 0.05 por dosis, Esta preparación ha sido empleada con frecuencia en casos de Catarros, Asma, Grippe, Escrófula, Raquitisma, Debilidad, Linfatismo, y como Tónico general. Dosis,—2 cucharadas (puro ó con agua) después de cada comida. Niños: una cucharadita, en la misma forma. Unicos Fabricantes, New York, Remedies, Trade Mark, Remedies, Label Copyrighted, Compound Elixir, Trade Mark Registered in the United States Patent Office under the Name of, Alcohol 10% by Volume. Fl. Ex. Nux Vomica 0.05 per Dose. This preparation has been often used in cases of Catarrh, Asthma, Grippe, Scrofula, Rickets, Debility, Lymphatism, and as a Tonic. Directions for Use. For Adults: Two Tablespoonfuls (Plain or with Water) After Meals. Children: 1 Dessertspoonful Same as Above. Manufactured Only by, New York."

Particular description of goods.—Remedies for Diseases of the Throat, Nasal Organs, and Lungs.

Claims use since about 1902.

Ser. No. 142,546. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ULRICI MEDICINE CO., New York, N. Y. Filed Jan. 20, 1921.



No claim being made to the exclusive use of the following words apart from the mark as shown on the drawing: "Etiqueta Cordial Registrada, Cerebrina Compuesto, Del (Quemico) ó, Marca Registrado en la Oficina de Patente de los Estados Unidos de América, Alcohol 11.68% por Volumen E. F. Nux Vomica 0.05 por Dosis, Tonico general, Amargo y Nutritivo-Estimulante, Recomendado en la Debilidad, Prostración Nerviosa, Fatiga, Fisica y Mental, Anemia, Clorosis, Linfatismo, Neuralgia y Raquitismo. Dosis tonica,—Para adultos: Una Cucharada tres veces al dia, antes ó después de las comidas. Para Niños de más de 10 años: mitad de la anterior dosis. Fabricado Solamente por New York, Remedies, Trade Mark, Remedies, Label Copyrighted, Compound Cordial Cerebrine or, Trade Mark Registered in the United States Patent Office, Alcohol 11.68% by Volume F. E. Nux Vomica 0.05 per dose. General Tonic, Bitter and Nutritive-Stimulant. Recommended for Debility, Nervous Prostration, Mental and Physical Fatigue, Anæmia, Chlorosis, Lymphatism, Neuralgia, and Rickets. Tonic Dose.—For Adults: A Tablespoonful Three Times a Day, Before or After Meals. For Children over 10 Years: One-Half of the Above Dose. Manufactured only by, New York."

Particular description of goods.—A Tonic for Anemia and Nervous Diseases.

Claims use since about 1902.

Ser. No. 142,564. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RALPH L. MABEE, Columbus, Ohio. Filed Jan. 21, 1921.

PILETREAT

Particular description of goods.—A Salve for Tender, Sore, Torn, or Lacerated Body-Tissues.

Claims use since Nov. 1, 1920.

Ser. No. 142,761. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MAGNUS FRUIT PRODUCTS CO., San Francisco, Calif. Filed Jan. 25, 1921.

Caljus

Particular description of goods.—Non-Alcoholic, Maltless Beverage Sold as a Soft Drink.

Claims use since Aug. 1, 1919.

Ser. No. 142,796. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JOHN H. LAIRD, Louisville, Ky., assignor to Laird Manufacturing Company, Louisville, Ky., a Corporation of Kentucky. Filed Jan. 26, 1921.

Telesco.

Particular description of goods.—Electric Headlights.

Claims use since Aug. 1, 1920.

Ser. No. 142,804. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLEICOLA TARRAGONA S. A., Tarragona, Spain. Filed Jan. 26, 1921.



The lining shown on the drawing is lining representing color. The intersecting horizontal and vertical lines indicate yellow color. The vertical parallel lines indicate red color. The horizontal parallel lines indicate blue color.

Particular description of goods.—Olive-Oil.

Claims use since Feb. 21, 1920.

Ser. No. 142,805. ((CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OLEICOLA TARRAGONA S. A., Tarragona, Spain. Filed Jan. 26, 1921.



The lining shown on the drawing is lining representing color. The horizontal parallel lines indicate blue color. The vertical parallel lines indicate red color. The intersecting horizontal and vertical lines indicate yellow color.

Particular description of goods.—Olive-Oil.

Claims use since Feb. 21, 1920.

Ser. No. 143,093. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HELEN MORGENTHAU FOX, Peekskill, N. Y. Filed Feb. 2, 1921.



No claim is made to the words "Honey," "Foxden," and "Peekskill, N. Y.," apart from the other features of the mark.

Particular description of goods.—Canned and Bottled Honey and Boxes of Honeycomb.

Claims use since on or about Apr. 1, 1920.

Ser. No. 143,224. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SMITH-HECHT CO., Indianapolis, Ind. Filed Feb. 5, 1921.

AURORALITE

Particular description of goods.—An Electric Sign.

Claims use since Apr. 1, 1918.

Ser. No. 143,263. (CLASS 17. TOBACCO PRODUCTS.) GENERAL CIGAR CO., INC., New York, N. Y. Filed Feb. 7, 1921.

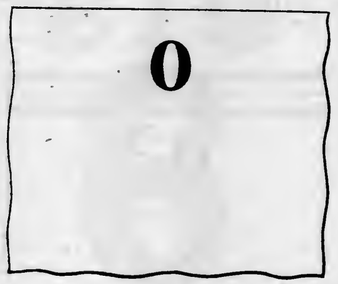


No claim being made to the word "Brand" apart from the mark shown in the drawing.

Particular description of goods.—Cigars.

Claims use since May, 1919.

Ser. No. 143,269. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAIRD LINEN CORPORATION, New York, N. Y. Filed Feb. 7, 1921.

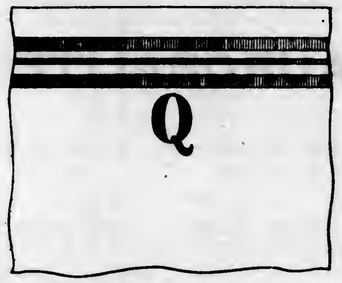


Applicant disclaims the representation of the goods shown in the drawing as an essential part of the trademark.

Particular description of goods.—Toweling, Towels, Crashes, Scarfing, Tray-Cloths.

Claims use since 1902.

Ser. No. 143,275. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAIRD LINEN CORPORATION, New York, N. Y. Filed Feb. 7, 1921.

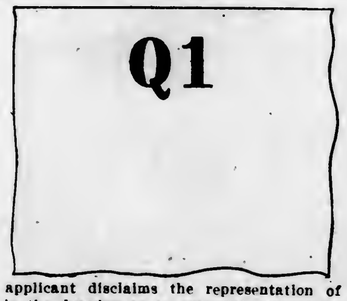


Includes two thick red and one inner thin red border line. The applicant disclaims the representation of the goods shown in the drawing as an essential part of the trade-mark.

Particular description of goods.—Toweling, Towels, Crashes, Scarfing, and Tray-Cloths.

Claims use since 1907.

Ser. No. 143,276. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAIRD LINEN CORPORATION, New York, N. Y. Filed Feb. 7, 1921.

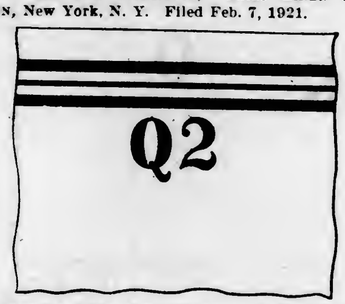


The applicant disclaims the representation of goods shown in the drawing as an essential part of the trade-mark.

Particular description of goods.—Toweling, Towels, Crashes, Scarfing, and Tray-Cloths.

Claims use since 1910.

Ser. No. 143,277. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAIRD LINEN CORPORATION, New York, N. Y. Filed Feb. 7, 1921.

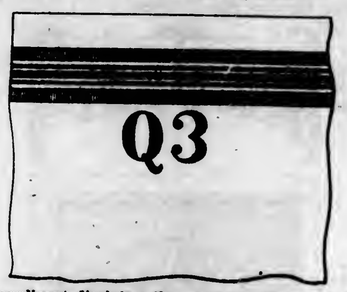


The applicant disclaims the representation of the goods shown in the drawing as an essential part of the trade-mark. Mark includes two thick blue and one inner blue border-line.

Particular description of goods.—Toweling, Towels, Crashes, Scarfing, and Tray-Cloths.

Claims use since 1910.

Ser. No. 143,278. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAIRD LINEN CORPORATION, New York, N. Y. Filed Feb. 7, 1921.

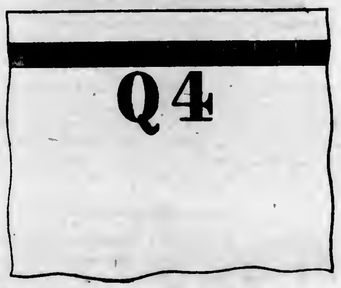


The applicant disclaims the representation of the goods shown in the drawing as an essential part of the trade-mark. Mark includes two heavy red, two thin blue, and one inner heavy blue border-line.

Particular description of goods.—Toweling, Towels, Crashes, Scarfing, and Tray-Cloths.

Claims use since 1910.

Ser. No. 143,279. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAIRD LINEN CORPORATION, New York, N. Y. Filed Feb. 7, 1921.

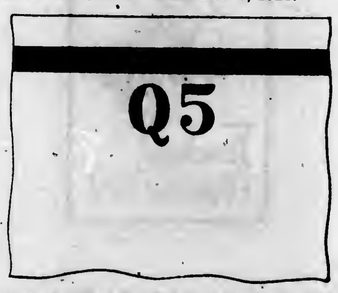


The applicant disclaims the representation of the goods shown in the drawing as an essential part of the trade-mark. Mark includes a relatively thick red border-line.

Particular description of goods.—Toweling, Towels, Crashes, Scarfing, and Tray-Cloths.

Claims use since 1910.

Ser. No. 143,280. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAIRD LINEN CORPORATION, New York, N. Y. Filed Feb. 7, 1921.



The applicant disclaims the representation of the goods shown in the drawing as an essential part of the trade-mark. Mark includes a relatively thick blue border-line.

Particular description of goods.—Toweling, Towels, Crashes, Scarfing, and Tray-Cloths.

Claims use since 1910.

Ser. No. 143,396. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE NEW YORK RECORDING LABORATORIES, Port Washington, Wis. Filed Feb. 10, 1921.

METROPOLITAN

Comprises the word "Metropolitan."

Particular description of goods.—Phonographs and Phonograph-Records, Record-Albums, Mechanical Phonograph Motors, Reproducers, and Needles.

Claims use since Feb. 2, 1921.

Ser. No. 143,487. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DARBONNIER & SAPERSTEIN, Atlanta, Ga. Filed Feb. 12, 1921.



Particular description of goods.—A Phenol Glycerin for Burns, Shortens Duration and Lessens Burns.

Claims use since July 18, 1920.

Ser. No. 143,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DARBONNIER & SAPERSTEIN, Atlanta, Ga. Filed Feb. 12, 1921.



Particular description of goods.—An Antiseptic Powder of Copper, Alum, and Zinc for Women's Personal Hygiene.

Claims use since Aug. 2, 1920.

Ser. No. 143,562. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ASHLAND DEVELOPMENT CORP., Ashland, Oreg. Filed Feb. 15, 1921.

ALAX

Consisting of the word "Alax."

Particular description of goods.—Laxative Mineral-Water Compounds.

Claims use since Feb. 5, 1921.

Ser. No. 143,637. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAROLD A. DAVIS, Chicago, Ill. Filed Feb. 16, 1921.

Kressies

Particular description of goods.—Candy.

Claims use since Feb. 1, 1921.

Ser. No. 143,639. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. GALLAWAY, New York, N. Y. Filed Feb. 16, 1921.

BIG 6

Particular description of goods.—Chemical Solution for the Removal of Obstructions in Drain-Pipes.

Claims use since about Feb. 9, 1920.

Ser. No. 143,641. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLAY W. HOLMES, deceased, late of Elmira, N. Y., by Floyd M. Shoemaker, Elmira, N. Y., administrator of the estate. Filed Feb. 16, 1921.



Particular description of goods.—Skin-Lotions.
Claims use since 1878.

Ser. No. 143,687. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS ARTHUR CARNEY, Butte, Mont. Filed Feb. 17, 1921.

CARNEY'S BOKAY INCENSE

No claim is made to the exclusive use of the word "Incense" apart from the mark as shown.
Particular description of goods.—A Deodorant Compound.
Claims use since Nov. 15, 1920.

Ser. No. 143,699. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEDRO LABORATORIES, INC., New York, N. Y. Filed Feb. 17, 1921.

NEDRO

Particular description of goods.—A General Tonic.
Claims use since Jan. 20, 1921.

Ser. No. 143,921. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMUEL H. GOODFRIEND, Chicago, Ill. Filed Feb. 23, 1921.

Tarto-cide
TARTAR PREVENTIVE

I hereby disclaim any and all right to the use of the words "Tartar Preventive" used in connection with the word "Tarto-cide" or in any other connection.
Particular description of goods.—A Mouth-Wash.
Claims use since Jan. 2, 1921.

Ser. No. 143,956. (CLASS 39. CLOTHING.) MAX ROUNICK, Philadelphia, Pa. Filed Feb. 23, 1921.



Particular description of goods.—Hosiery for Men, Women, and Children.
Claims use since Feb. 10, 1919.

Ser. No. 144,008. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALDEMAR LESSMANN & SONS, Brooklyn, N. Y. Filed Feb. 24, 1921.

HARCO

No claim being made to the term "Hair Fluid" shown in said drawing except as used in conjunction with the other features of the mark.
Particular description of goods.—A Preparation for Restoring Hair to Its Natural Color and Removing Dandruff.
Claims use since Feb. 1, 1921.

Ser. No. 144,016. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & COMPANY, Jersey City, N. J. Filed Feb. 25, 1921.

LILAC IMPERIAL

Particular description of goods.—Perfumes, Extracts, and Toilet Water.
Claims use since Jan. 31, 1910.

Ser. No. 144,065. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAYFAY LABORATORIES, Union Hill, N. J. Filed Feb. 26, 1921.

BLEACH-O-DENT

Particular description of goods.—Dentifrice.
Claims use since Feb. 10, 1921.

Ser. No. 144,162. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY W. SHRYOCK, Friday Harbor, Wash. Filed Feb. 28, 1921.

TONS EASE

Particular description of goods.—A Composition of Matter Comprising a Definite Mixture of Dry Medicinal Powders More Particularly for the Relief of Inflamed Tonsils, for Which Purpose It is Applied as a Dry Powder to the Inflamed Surface of Said Tonsils.
Claims use since Feb. 14, 1921.

Ser. No. 144,182. (CLASS 37. PAPER AND STATIONERY.) EAGLE PENCIL COMPANY, New York, N. Y. Filed Mar. 1, 1921.

CHIEF

Particular description of goods.—Lead-Pencils.
Claims use since about July 1, 1909.

Ser. No. 144,201. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. L. PALLEYESCH, Brooklyn, N. Y. Filed Mar. 1, 1921.

PALS

Particular description of goods.—An Analgesic and Antiseptic Preparation Used in the Treatment of Gums and Teeth and in Preventive Dentistry.
Claims use since Apr. 15, 1919.

Ser. No. 144,238. (CLASS 39. CLOTHING.) L. H. LEWIS COMPANY, Dallas, Tex. Filed Mar. 2, 1921.

LU-KO

Particular description of goods.—One and Two Piece Knit and Textile Fabric Underwear for Men, Women, and Children; Dress, Negligée, and Work Shirts; Bathing-Suits, Sweaters, Neckties, Hosiery, Dress-Gloves, Work-Gloves, Caps; Women's Suits, Dresses, Waists, and Coats.
Claims use since about Dec. 15, 1920.

Ser. No. 144,247. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. S. PETERSEN, Los Angeles, Calif. Filed Mar. 2, 1921.

Petersen

The mark being a facsimile of applicant's signature.
Particular description of goods.—A Compound in the Form of a Powder for the Treatment of Dropsy.
Claims use since Feb. 19, 1921.

Ser. No. 144,284. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOME PRODUCTS INC., Rahway, N. J. Filed Mar. 3, 1921.

QUICK STEP

Particular description of goods.—Priming-Ether.
Claims use since Dec. 1, 1920.

Ser. No. 144,406. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ERNEST F. MATTUTAT, New York, N. Y. Filed Mar. 7, 1921.

BG

Particular description of goods.—Hemoglobin Medical Tablets.
Claims use since Oct. 2, 1920.

Ser. No. 144,425. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RICHARDSON CORPORATION, Rochester, N. Y. Filed Mar. 7, 1921.



Includes the word "Reddy" coupled with a picture of a girl having red hair, which is not a portrait of a living person, but merely fanciful.
Particular description of goods.—Cocoa Syrup Used in Making Soft Drinks.
Claims use since about Jan. 21, 1921.

Ser. No. 144,465. (CLASS 37. PAPER AND STATIONERY.) GREGORY MAYER & THOM CO., Detroit, Mich. Filed Mar. 8, 1921.

KADILLAC LINE

No claim being made to the word "Line" apart from the mark shown.
Particular description of goods.—Graphite Pencils; Magazine-Pencils; Pen-Points; Penholders; Loose-Leaf Binders; Loose Leaves; Index-Guides; Index-Folders; Blank Books; Rubber Erasers; Rubber and Metal Typewriter Erasers; Steel and Wooden Files; and Steel and Wooden File Boxes; Calendar-Holders, and Copy-Holders.
Claims use since January, 1918.

Ser. No. 144,570. (CLASS 37. PAPER AND STATIONERY.) GEORGE P. GARIN, Chicago, Ill. Filed Mar. 10, 1921.

BOYS AND GIRLS SAVINGS CLUB

No claim herein is made to exclusive appropriation of the words "Boys and Girls Saving Club."
Particular description of goods.—Bank Deposit-Books.
Claims use since about Feb. 8, 1921.

Ser. No. 144,588. (CLASS 15. OILS AND GREASES.) PENN OIL CO., Rosslyn, Va. Filed Mar. 10, 1921.

LIGHTNING MOTOR FUEL

No claim being made to the words "Motor Fuel."
Particular description of goods.—Fuel-Oils.
Claims use since May 1, 1920.

Ser. No. 144,605. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CUNNINGHAM PIANO COMPANY, Philadelphia, Pa. Filed Mar. 11, 1921.

THRUSH-TALKING-MACHINE
CUNNINGHAM PIANO CO.

No claim to the words "Talking Machine" as a part of said trade-mark.
Particular description of goods.—Talking-Machines.
Claims use since Feb. 1, 1921.

Ser. No. 144,640. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REED & CARNRICK, Jersey City, N. J. Filed Mar. 11, 1921.

PANCRO-BILIN.

Particular description of goods.—A Medicine for Phthisis, Neurasthenia, Constipation, and Intestinal Indigestion.
Claims use since Feb. 1, 1868.

Ser. No. 144,726. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARBARA KOCH, Grand Forks, N. D. Filed Mar. 14, 1921.



Particular description of goods.—Poultices for Infected Wounds.
Claims use since February, 1921.

Ser. No. 144,737. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE PURITAN MFG. CO., Toledo, Ohio. Filed Mar. 14, 1921.

NO BAK

Particular description of goods.—Ornamental Plated and Precious-Metal Fastening Devices for Articles of Personal Wear for Holding Garments, as Collars, &c.
Claims use since Feb. 12, 1921.

Ser. No. 144,753. (CLASS 39. CLOTHING.) STRAUS, ROYER & STRASS, INC., Baltimore, Md. Filed Mar. 14, 1921.

TRUCOL

Particular description of goods.—Ladies' and Children's Blouses, Dresses, Skirts, Suits, and Bloomers.
Claims use since September, 1920.

Ser. No. 144,765. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KAELAS D. CHOWDHURY, Chicago, Ill. Filed Mar. 15, 1921.

FLOR-AMOUR

Particular description of goods.—Face-Powders, Toilet Waters, Perfumes, Talcum Powders, Sachets, and Rouges.
Claims use since December, 1919.

Ser. No. 144,779. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STEVE KROJER, Cleveland, Ohio. Filed Mar. 15, 1921.

NEW STAR
CARPET CLEANER

No claim is made to the words "Carpet" and "Cleaner" apart from the mark shown in the drawing.
Particular description of goods.—A Cleaning Preparation Used for Cleaning Carpets, Rugs, and the Like.
Claims use since Feb. 1, 1921.

Ser. No. 144,783. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PE-DO-LO-CHEMICAL COMPANY, Wilson, N. C. Filed Mar. 15, 1921.

PE-DO-LO.
FOOT LOTION

PFL PFL

No claim being made to the words "Foot Lotion."
Particular description of goods.—Foot-Lotion.
Claims use since August, 1920.

Ser. No. 144,784. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERFUMERIA FLORALIA, S. A., Madrid, Spain. Filed Mar. 15, 1921.

Flores y compa

Particular description of goods.—Talc and Face Powders, Perfumes, Hair-Tonic, Colognes, and Toilet Waters.
Claims use since January, 1914.

Ser. No. 144,797. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE WILLIAM ANDERSON, Enid, Okla. Filed Mar. 16, 1921.

Billy's

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Feb. 1, 1916.

Ser. No. 144,814. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOS. HENDERSON, New York, N. Y. Filed Mar. 16, 1921.

HENDERSON'S
"Tri-Maple"
"THE SYRUP MAKER"

No claim being made to the phrase "The Syrup Maker" apart from the other features of the trade-mark.
Particular description of goods.—A Food-Flavoring Extract for Imparting a Maple Flavor.
Claims use since Oct. 14, 1907.

Ser. No. 144,818. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD K. LINCOLN, New York, N. Y. Filed Mar. 16, 1921.

JIMMY PEP TABS

Particular description of goods.—A Chemical Preparation in Tablet Form for Intensifying Gasolene and Removing Carbon.
Claims use since Nov. 15, 1918.

Ser. No. 144,856. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FIBROC INSULATION COMPANY, Valparaiso, Ind. Filed Mar. 17, 1921.

Fibroc Insulation Co. Valparaiso, Ind.

The shading in the drawing shows one half of the circle red and the other half in yellow. The words "Valparaiso, Indiana," are disclaimed apart from the other features of the mark except in the particular relation used and shown.
Particular description of goods.—Insulating Compounds, Being Oil and Water Proof and Having Heat-Resisting Qualities, Used in Connection with Electrical Apparatus.
Claims use since Jan. 21, 1921.

Ser. No. 144,886. (CLASS 37. PAPER AND STATIONERY.) UNION CARD & PAPER CO., New York, N. Y. Filed Mar. 17, 1921.

BEST VALUE PAPER
U
PAPER

The exclusive use of the words "Best Value Paper" is disclaimed apart from the mark shown.
Particular description of goods.—For Printing Purposes, Known as Printers' Stock—Namely, Writing-Papers, Wedding-Papers, Fancy-Finish Papers, Bond-Papers, Ledger-Papers, Linen Papers, Safety-Papers, Mimeograph-Papers, Non-Carbonised Manifold-Papers, French Folio or Light-Weight Papers, Blotting-Papers, Cover-Papers, Newspapers, Postal Papers, Gummed Papers, Book-Papers, and Commercial Envelops, Window-Envelops; Coin, Drug, and Pay Envelops; Index-Cards, Wedding-Bristols, Fancy-Finish Bristols, White and Colored Bristols, Index-Bristols, Coated Bristols, Post-Card Bristols, Coated Cardboard, Tag-Boards, Manila Tag, Tough Checks, and Waterproof Show-Cards, and Ruled Headings.
Claims use since 1907.

Ser. No. 144,956. (CLASS 39. CLOTHING.) JAMES B. ARNOLD, Newark, N. J. Filed Mar. 19, 1921.

UNITED
SHOE
STORES
TRADE MARK

No claim being made to the representation of shoes nor the words "Trade Mark" apart from the mark shown in the drawing.
Particular description of goods.—Shoes Made of Leather, Cloth, Rubber, Composition, and Combinations Thereof.
Claims use since Feb. 9, 1920.

Ser. No. 144,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL DAMSCHINSKY, New York, N. Y. Filed Mar. 19, 1921. Under ten-year proviso.

C Damschinsky

Particular description of goods.—Hair-Dyes.
Claims use since May 1, 1891.

Ser. No. 144,975. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MICHAEL MATRANGA, New York, N. Y. Filed Mar. 19, 1921.

VERMOUTHOLA

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Jan. 10, 1921.

Ser. No. 145,021. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH S. KING, Brooklyn, N. Y. Filed Mar. 21, 1921.

Joseph S. King

The mark shown in the accompanying drawing is a facsimile of applicant's signature.
Particular description of goods.—Epigastric Medicines Used in the Treatment of Sexual Diseases, Blood and Catarrh Diseases of the Stomach, Medicine Used in the Treatment of Tape-Worms and Chronic Constipation, Also Used in the Treatment of Carcinoma.
Claims use since May, 1911.

Ser. No. 145,067. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB JANN, Philadelphia, Pa. Filed Mar. 22, 1921.



No claim being made to the exclusive use of the words "Whooping Cough Medicine" apart from the mark as shown on the drawing.

Particular description of goods.—A Remedy for Whooping-Cough and to Alleviate Colds and Sore Throat.

Claims use since Aug. 1, 1920.

Ser. No. 145,078. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES THOMAS MORAN, Knoxville, Tenn. Filed Mar. 22, 1921.

Purgatone

Particular description of goods.—Purgatone, a Tonic, Purgative, Kidney and Liver Preparation.

Claims use since July 26, 1920.

Ser. No. 145,094. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WELDON DRUG CO., Weldon, N. C. Filed Mar. 22, 1921.

Russolax

Particular description of goods.—Medicine to be Used in Treatment of Constipation, Piles, Rheumatism, Indigestion, for Relief of Appendicitis, and other Stomach and Bowel Troubles.

Claims use since Oct. 1, 1919.

Ser. No. 145,108. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE F. HINRICHS, INC., New York, N. Y. Filed Mar. 23, 1921.

Mayflower

Particular description of goods.—Dressed Poultry.

Claims use since July 1, 1919.

Ser. No. 145,214. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY R. HARROWER, Glendale, Calif. Filed Mar. 25, 1921.

SANITABLETS

Particular description of goods.—Pluriglandular Formulas for the Treatment of Various Endocrine Insufficiencies.

Claims use since Jan. 1, 1921.

Ser. No. 145,292. (CLASS 39. CLOTHING.) ROSENBERG BROS. & Co., Rochester, N. Y. Filed Mar. 26, 1921.



No exclusive right is claimed to the use of the expression "Foreign Fabrics" as shown on the drawing.

Particular description of goods.—Men's Coats, Vests, Pants, and Overcoats.

Claims use since on or about Mar. 1, 1921.

Ser. No. 145,305. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. ARON & COMPANY, INC., New Orleans, La. Filed Mar. 28, 1921.



No claim being made to the letters "A A A1" apart from the mark as shown.

Particular description of goods.—Green Coffee.

Claims use since February, 1921.

Ser. No. 145,309. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRENDLINGER COMPANY, Pittsburgh, Pa. Filed Mar. 28, 1921.

Brendlinger's

Consists of facsimile of the signature "Brendlinger's" as written by Mary H. Brendlinger, treasurer and general manager of the said Brendlinger Company.

Particular description of goods.—Extracts and Flavorings for Food Purposes.

Claims use since Feb. 1, 1921.

Ser. No. 145,327. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) FRANK & GOLDSMITH, Chicago, Ill. Filed Mar. 28, 1921.

BUSTER BROWN

Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink and Syrup for Making the Same.

Claims use since Aug. 1, 1920.

Ser. No. 145,364. (CLASS 37. PAPER AND STATIONERY.) SIMPLO FÜLLFEDER GESELLSCHAFT VOSS, LASSEN & DELAMBOR, Hamburg, Germany. Filed Mar. 26, 1921.

Reflex

Particular description of goods.—Fountain-Pens.

Claims use since 1919.

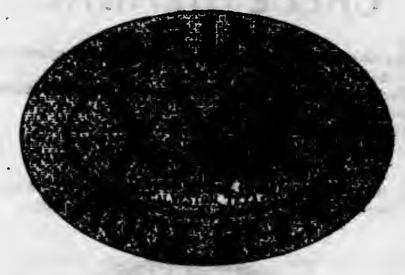
Ser. No. 145,365. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) W. D. SMITH SILVER CO., Chicago, Ill. Filed Mar. 28, 1921.



Particular description of goods.—Silverware, and Particularly Hollow Ware and Flat-Ware.

Claims use since 1913.

Ser. No. 145,418. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SOUTHERN BEVERAGE COMPANY, Galveston, Tex. Filed Mar. 29, 1921.



The reading-matter on the design, with the exception of the proprietor's name, being disclaimed apart from the mark as shown.

Particular description of goods.—Root-Beer.

Claims use since Mar. 14, 1921.

Ser. No. 145,513. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ALBERT HOUDLETT & SONS, INC., Brooklyn, N. Y. Filed Mar. 31, 1921.

NU-WAY

Particular description of goods.—Banjos; Mandolins and Ukulele-Banjos; Banjo Bridges, Pegs, Wrenches, Thim-

bles, Brackets, Fret-Wire, and Heads; Batons; Cymbals; Cymbal-Holders; Chinese Gongs, Wood Blocks, and Tom-Toms; Drums; Drum Heads, Belts, Slings, Braces or Ears, Cords, Cases, Hooks, Keys, Leg-Rests, Mufflers, Rods, Snares, Snare-Strainers, Stands, Sticks, and Shells; Drummers' Traps; Fifes and Fife-Mouthpieces; Flute-Mouthpieces; Tympani; Drum-Pedals; Musical Bells; Tubaphones; Tambourines; Triangles; Block-Holders; Baby-Cries; Bird-Whistles; Auto-Horns; Guitars; Mandolins and Violins.

Claims use since January, 1912.

Ser. No. 145,607. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CALDWELL IMPORTING CO., Minneapolis, Minn. Filed Apr. 2, 1921.

RED LABEL

No claim being made to the exclusive use of a label colored red.

Particular description of goods.—Coffee.

Claims use since July 1, 1920.

Ser. No. 145,661. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WECHSLER BARBER SILK CO. INC., New York, N. Y. Filed Apr. 2, 1921.

"CREPE BIZARRE"

No claim being made to the word "Crepe" apart from the mark as shown.

Particular description of goods.—Silk and Silk-Mixture Fabrics in the Piece.

Claims use since about Mar. 1, 1921.

Ser. No. 145,691. (CLASS 39. CLOTHING.) KING & COMPANY, New York, N. Y. Filed Apr. 4, 1921.



Particular description of goods.—Hosiery.

Claims use since Jan. 1, 1921.

Ser. No. 145,709. (CLASS 39. CLOTHING.) THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa. Filed Apr. 4, 1921.

PLA-TIME

Particular description of goods.—Hosiery.

Claims use since 1907.

Ser. No. 145,710. (CLASS 39. CLOTHING.) THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa. Filed Apr. 4, 1921.

MOGUL

Particular description of goods.—Hosiery.

Claims use since 1910.

Ser. No. 145,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALVIN C. WOODLEY, Binghamton, N. Y. Filed Apr. 4, 1921.

VIGORESSENCE

Particular description of goods.—Nerve-Tonic.

Claims use since Jan. 6, 1921.

Ser. No. 145,763. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMERICAN DRUGGISTS SYNDICATE, Long Island City, N. Y. Filed Apr. 6, 1921.

CHLOR-E-DIXO

Particular description of goods.—Tooth-Paste.

Claims use since 1918.

Ser. No. 145,830. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HOLMES AUTOMOBILE COMPANY, Canton, Ohio. Filed Apr. 7, 1921.



No claim being made to the words "Improved Air Cooled" apart from the mark shown in the drawing.

Particular description of goods.—Automobiles.

Claims use since Feb. 8, 1921.

Ser. No. 145,835. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KLEIN CHOCOLATE COMPANY, Elizabethtown, Pa. Filed Apr. 7, 1921.

SILVER BELLS

Particular description of goods.—Chocolate.

Claims use since January, 1913.

Ser. No. 145,836. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KLEIN CHOCOLATE COMPANY, Elizabethtown, Pa. Filed Apr. 7, 1921.



Particular description of goods.—Chocolate.

Claims use since January, 1913.

Ser. No. 145,895. (CLASS 17. TOBACCO PRODUCTS.) HAVANA COMMERCIAL COMPANY, New York, N. Y. Filed Apr. 8, 1921.



No claim is made to the word "Habana" apart from the mark shown in the drawing.

Particular description of goods.—Cigars.

Claims use since Dec. 15, 1884.

Ser. No. 145,943. (CLASS 37. PAPER AND STATIONERY.) FOX RIVER PAPER COMPANY, Appleton, Wis. Filed Apr. 9, 1921.

AGGRESSIVE

Particular description of goods.—Writing-Paper.

Claims use since Mar. 14, 1921.

Ser. No. 146,096. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) TEXTILE, LEATHER & METAL PRESERVER CO., Kalamazoo, Mich. Filed Apr. 12, 1921.



Particular description of goods.—A Dressing for Auto-Tops, Mohair, Imitation Mohair, Canvas, Pantasote, Leather, Harness, Belts, Saddles, Handbags, Boots, Shoes, and Similar Articles.

Claims use since Mar. 29, 1921.

Ser. No. 146,139. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PIG & WHISTLE COMPANY, San Francisco, Calif. Filed Apr. 13, 1921.

Brandywine

Particular description of goods.—Chocolate Candy.

Claims use since Mar. 11, 1921.

Ser. No. 146,193. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ALPINE CHOCOLATES COMPANY, Boston, Mass. Filed Apr. 15, 1921.

MOUNTAIN ROSE

The words "Mountain Rose."

Particular description of goods.—Candy.

Claims use since Jan. 30, 1920.

Ser. No. 146,199. (CLASS 37. PAPER AND STATIONERY.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed Apr. 15, 1921.

MILO

Consists of the word "Milo."
Particular description of goods.—Rubber Bands.
Claims use since January, 1912.

Ser. No. 146,251. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) THE A. B. CLINTON COMPANY, New Haven, Conn. Filed Apr. 16, 1921.

CLINTONE

Particular description of goods.—Needles for Sound-Reproducing Machines.
Claims use since Mar. 6, 1920.

Ser. No. 146,257. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ITALIAN GREEK IMPT. CO., New York, N. Y. Filed Apr. 16, 1921.



Particular description of goods.—Olive-Oil.
Claims use since Mar. 31, 1921.

Ser. No. 146,279. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRU BLU BISCUIT CO., Spokane, Wash. Filed Apr. 16, 1921.

"Always"

Particular description of goods.—Candy.
Claims use since Oct. 1, 1916.

Ser. No. 146,282. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) MANUFACTURING JEWELERS EXPORT COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 19, 1921.

MANJECO

Particular description of goods.—Finger-Rings, Key-Rings, and Chain-Fastening Rings, Bracelets, Necklaces, Neck-Chains, Watch-Chains, and Key-Chains for Men and Women, Pencils, and Ornamental Pins, All Made of or Plated with Precious Metal, and All Articles Commonly Described as Jewelry for Personal Wear, Not Including Watches, and Tableware and Hollow Ware Made of or Plated with Precious Metal.
Claims use since Feb. 1, 1921.

Ser. No. 146,389. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PRINCESS TEXTILE MILLS, INC., New York, N. Y. Filed Apr. 19, 1921.

SLYNX

Consisting of the word "Slynx."
Particular description of goods.—Woolen Piece Goods.
Claims use since Feb. 24, 1921.

Ser. No. 146,452. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah. Filed Apr. 20, 1921.



Particular description of goods.—Candies and Chocolates.
Claims use since about Nov. 15, 1920.

Ser. No. 146,498. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AARON PROSER, Baltimore, Md. Filed Apr. 21, 1921.

PAREV

Particular description of goods.—A Substitute for Fowl Fats.
Claims use since Apr. 18, 1921.

Ser. No. 146,538. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE INTERNATIONAL VEGETABLE OIL COMPANY, Atlanta, Ga. Filed Apr. 22, 1921.

MURNIC

Particular description of goods.—Prime Summer Yellow Refined Deodorized Cotton-Seed Oil.
Claims use since July 1, 1920.

Ser. No. 146,571. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MIRAND POLISH COMPANY, Pittsburgh, Pa. Filed Apr. 22, 1921.

MI
RA ND

Particular description of goods.—Furniture-Polish and Automobile-Polish.
Claims use since Jan. 1, 1921.

Ser. No. 146,759. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HENRY W. FISHEL & SONS, INC., New York, N. Y. Filed Apr. 26, 1921.



Drouvé

Particular description of goods.—Finger-Rings, Bar-Rings, Bandeaux, Scarf-Pins, Hatpins, Bar-Pins, Cuff-Links, Cuff-Pins, Veil-Pins, Bow-Pins, Lavallières, Ornaments and Clasps for Velvet Collars and Ribbon Sautoirs, Pendant Sautoirs, Bracelets, Pendants, Necklaces, Brooches, Shoe-Buckles, Ornaments for Combs, Braid-Pins, Barrettes, and Lingerie-Clasps.
Claims use since about Sept. 15, 1920.

Ser. No. 146,760. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) HENRY W. FISHEL & SONS, INC., New York, N. Y. Filed Apr. 26, 1921.

Drouvé

Particular description of goods.—Finger-Rings, Bar-Rings, Bandeaux, Scarf-Pins, Hatpins, Bar-Pins, Cuff-Links, Cuff-Pins, Veil-Pins, Bow-Pins, Lavallières, Ornaments and Clasps for Velvet Collars and Ribbon Sautoirs, Pendant Sautoirs, Bracelets, Pendants, Necklaces, Brooches, Shoe-Buckles, Ornaments for Combs, Braid-Pins, Barrettes, and Lingerie-Clasps.
Claims use since about Sept. 15, 1920.

Ser. No. 146,850. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICE CHOCOLATE COMPANY, Boston, Mass. Filed Apr. 27, 1921.

CHOC.
ROCKET

Particular description of goods.—Candy.
Claims use since Dec. 1, 1920.

Ser. No. 146,873. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONTINENTAL CANDY MFG. CO., Brooklyn, N. Y. Filed Apr. 28, 1921.

CONTINENTAL

Particular description of goods.—Chocolates, Hard Candies, and Glacéd Fruits.
Claims use since January, 1912.

Ser. No. 146,886. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Mats and Matting Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,900. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Mats and Matting Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 147,049. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROBERTSON & WATSON, Evanston, Ill. Filed Apr. 30, 1921.

Ring-ting

Particular description of goods.—Candy.
Claims use since Dec. 1, 1920.

Ser. No. 147,082. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AHRENS CO., San Francisco, Calif. Filed May 2, 1921.



Particular description of goods.—Chocolate Candy.
Claims use since Mar. 1, 1921.

Ser. No. 147,127. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FORT SMITH COFFEE COMPANY, Fort Smith, Ark. Filed May 2, 1921.



The picture in the drawing being fanciful.
Particular description of goods.—Coffee.
Claims use since Mar. 28, 1921.

Ser. No. 147,225. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EARL L. WALLACE, San Francisco, Calif. Filed May 4, 1921.



Particular description of goods.—Popcorn and Nut Confection.
Claims use since Mar. 17, 1921.

Ser. No. 147,358. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) MARK J. MURPHY, Chicago, Ill. Filed May 7, 1921.

E.Z.

Particular description of goods.—Malt Extract.
Claims use since Apr. 1, 1921.

Ser. No. 147,449. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ERNEST OBERBECK, Chicago, Ill. Filed May 9, 1921.

KAMP-O-PHONE
THE JOY OF THE OUTING

Particular description of goods.—Phonographs.
Claims use since Apr. 2, 1921.

Ser. No. 148,100. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE WILLIAMS COMPANY, London, Ohio. Filed May 23, 1921.

WILLIAMS

Particular description of goods.—Steel-Wool.
Claims use since on or about Apr. 20, 1921.

Ser. No. 148,187. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WINTHROP M. WILLIAMS, Cochituate, Mass. Filed May 24, 1921.

TRIX

Particular description of goods.—Washing-Powder.
Claims use since about Apr. 7, 1921.

Ser. No. 148,599. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOHN OLIVER JOHNSON, Chicago, Ill. Filed June 3, 1921.

FOREST PRESERVE

Consisting of the words "Forest Preserve."
Particular description of goods.—Lawn-Grass Seed.
Claims use since about Feb. 1, 1918.

Ser. No. 148,600. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOHN OLIVER JOHNSON, Chicago, Ill. Filed June 3, 1921.

RED-WHITE-BLUE

Consisting of the name "Red-White-Blue."
Particular description of goods.—Lawn-Grass Seed.
Claims use since about May 1, 1917.

Ser. No. 148,601. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOHN OLIVER JOHNSON, Chicago, Ill. Filed June 3, 1921.

OAK PARK

Particular description of goods.—Lawn-Grass Seed.
Claims use since about Feb. 20, 1919.

Ser. No. 148,656. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ILLINOIS RAZOR STROP COMPANY, Chicago, Ill. Filed June 4, 1921.



No claim is made to the exclusive use of the word "Shell" apart from the mark shown in the drawing.
Particular description of goods.—Razor-Strops.
Claims use since May 11, 1909.

Ser. No. 148,661. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE C. MOENCH SONS COMPANY, Boston, Mass. Filed June 4, 1921. Under ten-year proviso.

MOENCH

Particular description of goods.—Leathers.
Claims use since 1865.

Ser. No. 148,777. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) R. T. VANDERBILT CO. INC., New York, N. Y. Filed June 6, 1921.



No claim is made for the words "R. T. Vanderbilt Co., N. Y., American Products, Clay" apart from the mark shown in the drawing.
Particular description of goods.—Clay Used as a Filler in the Manufacture of Paper and as a Coating for Wall-Paper.
Claims use since Apr. 1, 1921.

Ser. No. 148,889. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE W. A. KITTREDGE COMPANY, Tunkhannock, Pa. Filed June 9, 1921.

REPEAT

Particular description of goods.—Washing Compound.
Claims use since Jan. 14, 1920.

Ser. No. 149,056. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHICAGO TANNING CO., Chicago, Ill. Filed June 13, 1921.

Chitanco

The word "Chitanco."
Particular description of goods.—Leathers.
Claims use since Jan. 6, 1921.

Ser. No. 149,061. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 13, 1921.

MEMORIES

Particular description of goods.—Soaps.
Claims use since Apr. 13, 1921.

Ser. No. 149,063. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 13, 1921.

PIQUANT

Particular description of goods.—Soaps.
Claims use since Apr. 13, 1921.

Ser. No. 149,065. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 13, 1921.

PRINCESS HARRAN

Particular description of goods.—Soaps.
Claims use since May 14, 1921.

Ser. No. 149,066. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 13, 1921.

SANDALAY

Particular description of goods.—Soaps.
Claims use since Apr. 13, 1921.

Ser. No. 149,077. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRONTIER CHEMICAL CO., Buffalo, N. Y. Filed June 13, 1921.

FRONTIER

Particular description of goods.—A Cleaner for Cleaning Metal Before Electroplating the Same.
Claims use since Apr. 14, 1921.

Ser. No. 149,203. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) RED JACKET CONSOLIDATED COAL AND COKE COMPANY, Red Jacket, W. Va. Filed June 15, 1921.



Particular description of goods.—Coal and Coke.
Claims use since on or about June 27, 1899.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

JULY 26, 1921.

145,024. TOOLS FOR HANDLING CASKS, &c. SIMEON C. ALLEN, Rochester, N. Y.
Filed November 1, 1920. Serial No. 139,018. PUBLISHED APRIL 5, 1921.

145,025. BATTERY-TURNTABLES, BATTERY-PLATE PRESSES, BATTERY-STEAMERS, BATTERY-PLATE-BURNING RACKS, AND BATTERY-CARRIERS. AMERICAN BUREAU OF ENGINEERING INC., Chicago, Ill.
Filed January 19, 1920. Serial No. 127,276. PUBLISHED APRIL 5, 1921.

145,026. IRON AND STEEL SHEETS AND PLATES AND TIN AND TERNE PLATES. AMERICAN SHEET AND TIN PLATE COMPANY, Pittsburgh, Pa.
Filed March 12, 1918. Serial No. 100,515. PUBLISHED OCTOBER 5, 1920.

145,027. SODA-FOUNTAINS. AMERICAN SHOW CASE AND MFG. CO., Detroit, Mich.
Filed December 21, 1920. Serial No. 141,346. PUBLISHED APRIL 19, 1921.

145,028. CLEAVERS. AMERICAN TAP AND DIE CO., Greenfield, Mass.
Filed November 12, 1920. Serial No. 139,560. PUBLISHED APRIL 5, 1921.

145,029. COTTON PIECE GOODS. AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H.
Filed January 22, 1921. Serial No. 142,596. PUBLISHED APRIL 19, 1921.

145,030. COTTON PIECE GOODS. AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H.
Filed January 22, 1921. Serial No. 142,599. PUBLISHED APRIL 19, 1921.

145,031. WOOLEN GOODS IN THE PIECE. ANDREW'S MILL COMPANY, Frankford, Pa.
Filed January 8, 1921. Serial No. 141,963. PUBLISHED APRIL 12, 1921.

145,032. TOILET-PAPER AND PAPER TOWELS. A. P. W. PAPER CO., Albany, N. Y.
Filed January 29, 1921. Serial No. 142,915. PUBLISHED APRIL 12, 1921.

145,033. PAPER GENERALLY USED FOR PRINTING AND WRITING AND MAILING-ENVELOPS. ATLANTIC PAPER COMPANY, Philadelphia, Pa.
Filed February 12, 1921. Serial No. 143,475. PUBLISHED APRIL 12, 1921.

145,034. DRIVE-CHAINS. THE ATLAS CHAIN CO., LTD., Birmingham, England.
Filed January 10, 1921. Serial No. 142,000. PUBLISHED APRIL 19, 1921.

145,035. STEEL-DIE PRINTING-INKS OF VARIOUS TINTS AND COLORS. THE AULT & WIBORG COMPANY OF N. Y., New York, N. Y.
Filed December 1, 1920. Serial No. 140,479. PUBLISHED APRIL 12, 1921.

145,036. BUMPERS, CREEPERS, STEERING-WHEELS, LUGGAGE-CARRIERS, ACCELERATOR-FOOT-RESTS, AND ROBE AND FOOT RAILS. BADGER MANUFACTURING CORPORATION, Milwaukee, Wis.
Filed July 28, 1919. Serial No. 120,982. PUBLISHED APRIL 19, 1921.

145,037. ASSEMBLED BAKING PLANTS, CONTAINING DOUGH-MIXING AND PROOFING APPARATUS, OVENS, RACKS AND SALES-COUNTERS. BAKE-RITE OVEN MFG. COMPANY, Reno, Nev., and San Francisco, Calif.
Filed June 9, 1919. Serial No. 119,328. PUBLISHED AUGUST 31, 1920.

145,038. CERTAIN NAMED OVENS, STOVES, RANGES, BOILERS, WATER-HEATERS, BURNERS, AND BURNER UNITS. BAKE-RITE OVEN MFG. COMPANY, Reno, Nev., and San Francisco, Calif.
Filed June 9, 1919. Serial No. 119,329. PUBLISHED AUGUST 31, 1920.

145,039. SOLE-LEATHER. PETER BARBIERI, Perth Amboy, N. J.
Filed January 28, 1921. Serial No. 142,871. PUBLISHED APRIL 19, 1921.

145,040. CERTAIN NAMED ELECTRICAL APPLIANCES. BEAVER MACHINE & TOOL CO. INC., Newark, N. J.
Filed September 29, 1919. Serial No. 123,234. PUBLISHED APRIL 19, 1921.

145,041. SILK THREAD. BELDING BROS. & CO., New York, N. Y.
Filed September 12, 1919. Serial No. 122,582. PUBLISHED AUGUST 31, 1920.

145,042. INTERNAL-COMBUSTION ENGINES, OIL-WELL PUMPING-POWERS, AND FLUID-COMPRESSORS. THE BESSEMER GAS ENGINE COMPANY, Grove City, Pa.
Filed July 24, 1920. Serial No. 135,356. PUBLISHED APRIL 5, 1921.

145,043. THREADS OF FLAX, HEMP, TOW, AND RAMIE OR CHINA-GRASS. THE BLACKSTAFF FLAX SPINNING & WEAVING COMPANY, LIMITED, Belfast, Ireland.
Filed January 8, 1921. Serial No. 141,964. PUBLISHED APRIL 12, 1921.

145,044. HAIR-TONIC, FACE-CREAM, HAIR-GROWER, TALCUM POWDER, HAIR-GLOSS, SKIN-BALM, AND SCALP-BALM. MRS. ELIZABETH V. W. BLAKE, Wilmington, Del.
Filed October 25, 1920. Serial No. 138,748. PUBLISHED APRIL 26, 1921.

145,045. HOSIERY. GEORGE BORGFELDT & CO., New York, N. Y.
Filed November 23, 1920. Serial No. 140,006. PUBLISHED APRIL 12, 1921.

145,046. CERTAIN NAMED TIRES, TUBES, AND OUTER CASINGS. BRAENDER RUBBER & TIRE CO., Rutherford, N. J.
Filed January 31, 1921. Serial No. 142,953. PUBLISHED APRIL 12, 1921.

145,047. CERTAIN NAMED FABRICS IN THE PIECE. THE BRAINERD & ARMSTRONG COMPANY, New London, Conn.
Filed March 17, 1920. Serial No. 129,824. PUBLISHED JUNE 15, 1921.

145,048. COACH AND FURNITURE FABRIC PIECE GOODS AND COTTON AUTOMOBILE-SEAT COVERINGS. THE BRIDGEPORT COACH LACE CO., Bridgeport, Conn.
Filed September 9, 1920. Serial No. 136,964. PUBLISHED APRIL 19, 1921.

145,049. SKINS AND HIDES. BRONSTON BROS. & CO. INC., New York, N. Y.
Filed February 1, 1921. Serial No. 143,035. PUBLISHED APRIL 12, 1921.

145,050. SHOES FOR MEN MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF THE SAME. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed November 13, 1920. Serial No. 139,653. PUBLISHED APRIL 19, 1921.

145,051. HORSE AND MULE FEED. THE BUCKEYE COTTON OIL COMPANY, Cincinnati, Ohio.
Filed January 31, 1921. Serial No. 142,954. PUBLISHED APRIL 12, 1921.

145,052. PAPER FOR POSTER AND LABEL WORK. J. W. BUTLER PAPER COMPANY, Chicago, Ill.
Filed November 22, 1920. Serial No. 139,936. PUBLISHED APRIL 19, 1921.

145,053. WRITING-PAPER. J. W. BUTLER PAPER COMPANY, Chicago, Ill.
Filed November 22, 1920. Serial No. 139,937. PUBLISHED APRIL 19, 1921.

145,054. MAILING OR CORRESPONDENCE ENVELOPS. J. W. BUTLER PAPER COMPANY, Chicago, Ill.
Filed November 22, 1920. Serial No. 139,943. PUBLISHED APRIL 19, 1921.

145,055. BRISTOL-BOARD. J. W. BUTLER PAPER COMPANY, Chicago, Ill.
Filed November 22, 1920. Serial No. 139,954. PUBLISHED APRIL 19, 1921.

145,056. FLAVORS OF VARIOUS KINDS FOR MAKING NON-ALCOHOLIC BEVERAGES. BUYERS EXPORT AGENCY, INC., New York, N. Y.
Filed August 25, 1920. Serial No. 136,458. PUBLISHED APRIL 19, 1921.

145,057. CERTAIN NAMED NEEDLES, PINS, BUTTONS, BUCKLES, LACES, AND GARTERS. CARAVEL COMPANY, INC., New York, N. Y.
Filed June 24, 1920. Serial No. 134,116. PUBLISHED AUGUST 10, 1920.

145,058. PAPER FOR GENERAL PRINTING AND WRITING PURPOSES AND MAILING-ENVELOPS. CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass.
Filed November 17, 1920. Serial No. 139,733. PUBLISHED APRIL 19, 1921.

145,059. PAPER FOR GENERAL PRINTING AND WRITING PURPOSES AND MAILING-ENVELOPS. CAREW MANUFACTURING COMPANY, South Hadley Falls, Mass.
Filed November 17, 1920. Serial No. 139,735. PUBLISHED APRIL 19, 1921.

145,060. CERTAIN NAMED ELECTRICAL APPLIANCES. CHICAGO MICA CO., Valparaiso, Ind.
Filed September 29, 1920. Serial No. 137,753. PUBLISHED APRIL 19, 1921.

145,061. BLACK INK AND RED INK. THE CITIZENS' WHOLESALE SUPPLY COMPANY, Columbus, Ohio.
Filed February 7, 1921. Serial No. 143,254. PUBLISHED APRIL 19, 1921.

145,062. CERTAIN HAND-TOOLS. THE COLLINS COMPANY, Collinsville, Conn.
Filed October 29, 1920. Serial No. 138,943. PUBLISHED APRIL 19, 1921.

145,063. SELF-RISING WHEAT-FLOUR. THE COLORADO MILLING & ELEVATOR COMPANY, Denver, Colo., and Burley, Idaho.
Filed February 4, 1921. Serial No. 143,157. PUBLISHED APRIL 12, 1921.

145,064. TIMOTHY-SEED. HORACE E. CONKLIN, Binghamton, N. Y.
Filed January 14, 1920. Serial No. 127,118. PUBLISHED APRIL 19, 1921.

145,065. CALF-LEATHER. CHEESE & COOK CO., Danvers, Mass.
Filed April 11, 1918. Serial No. 110,108. PUBLISHED OCTOBER 7, 1919.

145,066. OLEOMARGARIN. CROWN MARGARIN COMPANY, St. Louis, Mo.
Filed January 31, 1921. Serial No. 142,961. PUBLISHED APRIL 12, 1921.

145,067. STEEL BARS, RODS, BILLETS, BLOOMS, SHEETS, PLATES, SLABS, STRIPS, BLOCKS, FORGINGS, AND CASTINGS. CRUCIBLE STEEL COMPANY OF AMERICA, Pittsburgh, Pa.
Filed January 22, 1921. Serial No. 142,587. PUBLISHED APRIL 5, 1921.

145,068. METAL PIPE-FITTINGS. E. M. DART MFG. CO., Providence, R. I.
Filed January 26, 1921. Serial No. 142,780. PUBLISHED APRIL 19, 1921.

145,069. LEATHER SHOES. H. E. DAVIS CO., Freeport, Me.
Filed August 25, 1920. Serial No. 136,468. PUBLISHED APRIL 19, 1921.

145,070. WOOL AND FIBER CARPETS AND RUGS. W. A. W. DAVIS, CORP., New York, N. Y.
Filed June 21, 1920. Serial No. 133,960. PUBLISHED APRIL 19, 1921.

145,071. SOLUBLE COMPOUND-VANILLA CONCENTRATE FOR FOOD PURPOSES. MELVIN DE GROOTE, Pittsburgh, Pa.
Filed January 6, 1921. Serial No. 141,906. PUBLISHED APRIL 19, 1921.

145,072. YARNS AND THREADS MADE OF COTTON, SILK, JUTE, FLAX, LINEN, WOOL, AND RAMIE. DEXTER YARN COMPANY, Pawtucket, R. I.
Filed January 24, 1921. Serial No. 142,698. PUBLISHED APRIL 12, 1921.

145,073. PERIODICAL PUBLICATION PUBLISHED DAILY. DIRECT NEWS SERVICE, San Francisco, Calif.
Filed January 31, 1921. Serial No. 142,963. PUBLISHED APRIL 19, 1921.

145,074. STEEL PULLEYS. DODGE SALES & ENGINEERING CO., Mishawaka, Ind.
Filed October 10, 1919. Serial No. 123,630. PUBLISHED APRIL 5, 1921.

145,075. GUM USED IN THE MANUFACTURE OF CHEWING-GUM. L. A. DREYFUS CO., New York, N. Y.
Filed January 6, 1921. Serial No. 141,901. PUBLISHED APRIL 12, 1921.

145,076. FRESH EGGS. DRUCKER & LINDY, Irvington, N. J.
Filed January 24, 1921. Serial No. 142,607. PUBLISHED APRIL 12, 1921.

145,077. CASEIN FOOD PRODUCT. THE DRY MILK COMPANY, New York, N. Y.
Filed December 30, 1920. Serial No. 141,672. PUBLISHED APRIL 19, 1921.

145,078. TYPEWRITER-RIBBONS AND CARBON-PAPER. H. W. DU BOIS & CO., New York, N. Y., and Boston, Mass.
Filed December 29, 1920. Serial No. 141,628. PUBLISHED APRIL 19, 1921.

145,079. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed January 4, 1921. Serial No. 141,831. PUBLISHED APRIL 12, 1921.

145,080. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed January 4, 1921. Serial No. 141,832. PUBLISHED APRIL 12, 1921.

145,081. CERTAIN PLUMBING AND STEAM-FITTING SUPPLIES. EAGLE BRASS FOUNDRY COMPANY, Seattle, Wash.
Filed July 20, 1920. Serial No. 135,204. PUBLISHED APRIL 19, 1921.

145,082. INGOTS OF NON-FERROUS ALLOYS, BEARING METAL, AND CERTAIN CASTINGS. EAGLE BRASS FOUNDRY COMPANY, Seattle, Wash.
Filed August 23, 1920. Serial No. 136,367. PUBLISHED APRIL 19, 1921.

145,083. COFFEE. EARLY-STRATTON CO., Memphis, Tenn.
Filed January 3, 1921. Serial No. 141,769. PUBLISHED APRIL 12, 1921.

145,084. TIRE FABRIC, TEXTILE FABRICS IN STRIP, WEB, AND SHEET FORM, AND COTTON PIECE GOODS. WILLIAM W. EDELSTONE, Cambridge, Mass.
Filed November 24, 1920. Serial No. 140,099. PUBLISHED APRIL 12, 1921.

145,085. CLEANING AND SCOURING POWDER WITH INCIDENTAL WATER-SOFTENING PROPERTIES. THE ELDRIDGE CHEMICAL COMPANY, Canton, Ohio.
Filed February 3, 1921. Serial No. 143,121. PUBLISHED APRIL 19, 1921.

145,086. METAL-WELDING ELECTRODES. ELECTRIC ARC CUTTING AND WELDING COMPANY, Newark, N. J.
Filed December 13, 1919. Serial No. 125,951. PUBLISHED APRIL 19, 1921.

145,087. FRESH FRUITS AND VEGETABLES PACKED IN CRATES. ELLIOTT COMMISSION COMPANY, Decatur, Ill.
Filed January 3, 1921. Serial No. 141,770. PUBLISHED APRIL 19, 1921.

145,088. TYPEWRITING-MACHINES, COMBINED WRITING-ADDING MACHINES, AND PLATENS. ELLIOTT-FISHER COMPANY, Harrisburg, Pa.
Filed April 23, 1920. Serial No. 131,525. PUBLISHED APRIL 19, 1921.

145,089. CONCRETE-MIXERS, FEED-GRINDERS, SAW-FRAMES, PUMP-JACKS, CONCRETE AND POST MOLDS. E. F. ELMBERG COMPANY, Parkersburg, Iowa.
Filed October 11, 1920. Serial No. 138,163. PUBLISHED APRIL 19, 1921.

145,090. WALL-BOARD AND BUILDING-PAPER. THE EMERSON CAREY FIBRE PRODUCTS COMPANY, Hutchinson, Kans.
Filed January 18, 1921. Serial No. 142,387. PUBLISHED APRIL 26, 1921.

145,091. SCRATCH FEED. J. M. ERNST & SON, Arcola and East St. Louis, Ill.
Filed February 4, 1921. Serial No. 143,164. PUBLISHED APRIL 12, 1921.

145,092. GAS HEATING APPARATUS. THE ESTATE STOVE COMPANY, Hamilton, Ohio.
Filed December 20, 1920. Serial No. 141,298. PUBLISHED APRIL 19, 1921.

145,093. BOILER-SETTING CEMENT AND GLASS-SETTING CEMENT OR CEMENT PUTTY. THE EXCELLO MANUFACTURING COMPANY, Cleveland, Ohio.
Filed November 24, 1920. Serial No. 140,098. PUBLISHED APRIL 19, 1921.

145,094. HAND-MADE LACE PIECES. FRENCH AMERICAN IMPORT CO., Boston, Mass.
Filed November 18, 1920. Serial No. 139,793. PUBLISHED APRIL 19, 1921.

145,095. SOAPS. HENRIETTE GABILLA, Paris, France.
Filed November 6, 1920. Serial No. 139,261. PUBLISHED JANUARY 25, 1921.

145,096. SOAPS. HENRIETTE GABILLA, Paris, France.
Filed November 6, 1920. Serial No. 139,264. PUBLISHED MARCH 29, 1921.

145,097. SOCKETS AND METALLIC STRIPS USED IN LAYING COMPOSITION AND PLASTIC FLOORS AND WALLS. P. GALASSI CORPORATION, Boston, Mass.
Filed December 9, 1920. Serial No. 140,835. PUBLISHED APRIL 19, 1921.

145,098. TRANSLUCENT GELATINOUS SHEETS. GELATOID CORPORATION, New York, N. Y.
Filed September 25, 1920. Serial No. 137,610. PUBLISHED APRIL 19, 1921.

145,099. LEDGER AND WRITING PAPER. GILBERT PAPER COMPANY, Menasha, Wis., assignor to Graham Paper Company, St. Louis, Mo., a Corporation of Missouri.
Filed January 11, 1921. Serial No. 142,067. PUBLISHED APRIL 12, 1921.

145,100. CERTAIN NAMED FOODS. GLOBE GRAIN & MILLING CO., Los Angeles, Calif.
Filed December 7, 1920. Serial No. 140,718. PUBLISHED APRIL 12, 1921.

145,101. CERTAIN BATH-ROOM FIXTURES AND SUPPLIES. GOLCO SANITARY SYSTEM, INC., Philadelphia, Pa.
Filed November 9, 1920. Serial No. 139,396. PUBLISHED APRIL 19, 1921.

145,102. STATIONERS' BANDS MADE PRINCIPALLY OF RUBBER. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed January 31, 1921. Serial No. 142,975. PUBLISHED APRIL 12, 1921.

145,103. SOAPS AND SOAP POWDERS. GRAIN SOAPS CORPORATION, Dover, Del., and Jersey City, N. J.
Filed October 23, 1919. Serial No. 124,107. PUBLISHED MAY 4, 1920.

145,104. AUTOMOBILE BODIES AND FRAMES. GREYHOUND MOTORS CORPORATION, New York, N. Y.
Filed March 18, 1920. Serial No. 129,889. PUBLISHED APRIL 19, 1921.

145,105. SILK, WOOLEN, LINEN, AND COTTON PIECE GOODS AND COMBINATIONS THEREOF. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed January 26, 1921. Serial No. 142,788. PUBLISHED APRIL 19, 1921.

145,106. HOLLOW AND SOLID STEEL BARS FOR DRILLS. HALCOMB & DAVIDSON, INC., New York, N. Y.
Filed March 19, 1919. Serial No. 116,712. PUBLISHED JUNE 8, 1920.

145,107. PAPER FOR GENERAL PRINTING AND WRITING PURPOSES AND MAILING-ENVELOPS. HAMPSHIRE PAPER COMPANY, South Hadley Falls, Mass.
Filed June 9, 1920. Serial No. 133,468. PUBLISHED APRIL 19, 1921.

145,108. DRIED FRUITS, CANNED FRUITS, AND CANNED FISH. A/S DET ALMINDELIGE HANDELSKOMPAGNI, Copenhagen, Denmark.
Filed October 27, 1920. Serial No. 138,833. PUBLISHED APRIL 19, 1921.

145,109. VEHICLE-TIRES MADE OF RUBBER. THE HARTFORD RUBBER WORKS COMPANY, Hartford, Conn.
Filed January 11, 1921. Serial No. 142,070. PUBLISHED APRIL 12, 1921.

145,110. PONGEE SILK IN THE PIECE. FREDERICK ROBERT HEINICK, San Francisco, Calif.
Filed December 7, 1920. Serial No. 140,720. PUBLISHED APRIL 19, 1921.

145,111. MEN'S COLLARS, CUFFS, DRESS AND NEGLIGÉE SHIRTS, NECKTIES, AND TEXTILE ONE-PIECE-GARMENT UNDERWEAR. CLARENCE C. HEMMICK, Chicago, Ill.
Filed November 11, 1920. Serial No. 139,534. PUBLISHED APRIL 19, 1921.

145,112. ILLUSTRATED MAGAZINE PUBLISHED MONTHLY. HERALD-LEADER COMPANY, Menominee, Mich.
Filed January 31, 1919. Serial No. 115,550. PUBLISHED APRIL 19, 1921.

145,113. PEANUT-BUTTER. WALTER J. HIRSCH Co., Chicago, Ill.
Filed November 3, 1920. Serial No. 139,121. PUBLISHED APRIL 19, 1921.

145,114. PROPEL-PENCILS AND LEADS AND ERASERS THEREFOR. THE HOOS MANUFACTURING COMPANY, New York, N. Y.
Filed January 31, 1921. Serial No. 142,976. PUBLISHED APRIL 12, 1921.

145,115. TEXTILE FABRICS IN THE PIECE—NAMELY, DRESS GOODS OF WORSTED AND WOOL. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed November 26, 1920. Serial No. 140,161. PUBLISHED APRIL 19, 1921.

145,116. SAFETY-RAZORS AND HAIR-TRIMMERS. HOWARD SPECIALTIES COMPANY, INC., New York, N. Y.
Filed December 20, 1920. Serial No. 141,306. PUBLISHED APRIL 19, 1921.

145,117. HOSIERY. HUDSON HOSIERY CO., Waterbury, Conn.
Filed October 22, 1920. Serial No. 138,677. PUBLISHED APRIL 19, 1921.

145,118. GUMMED PAPER. IDEAL COATED PAPER COMPANY, Brookfield, Mass.
Filed February 15, 1921. Serial No. 143,607. PUBLISHED APRIL 12, 1921.

145,119. CERTAIN AGRICULTURAL MACHINERY AND PARTS THEREOF. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed October 2, 1920. Serial No. 137,833. PUBLISHED JANUARY 25, 1921.

145,120. CANDY. GABRIELLE E. JACKSON, New York, N. Y.
Filed September 7, 1920. Serial No. 136,894. PUBLISHED APRIL 19, 1921.

145,121. COLLARS AND NECKBANDS. JEFFERSON COLLAR CO., New York, N. Y.
Filed December 23, 1920. Serial No. 141,459. PUBLISHED APRIL 12, 1921.

145,122. RIBBONS, AND CERTAIN NAMED PIECE GOODS. JOHNSON COWDIN & COMPANY, INC., New York, N. Y.
Filed January 15, 1921. Serial No. 142,288. PUBLISHED APRIL 19, 1921.

145,123. RIBBONS AND PIECE GOODS, SILKS AND SATINS, AND MIXTURES. JOHNSON, COWDIN & COMPANY, INC., New York, N. Y.
Filed November 29, 1920. Serial No. 140,389. PUBLISHED APRIL 12, 1921.

145,124. SHEET-RUBBER PATCHES. THE JONES & JONES COMPANY, Kingman, Kans.
Filed January 10, 1921. Serial No. 142,018. PUBLISHED APRIL 19, 1921.

145,125. PATCHES FOR TIRES. JUSTA MANUFACTURING COMPANY, Oklahoma, Okla.
Filed August 14, 1919. Serial No. 121,673. PUBLISHED NOVEMBER 2, 1920.

145,126. FUR-SKINS. SAMUEL KAHN, New York, N. Y.
Filed December 4, 1920. Serial No. 140,601. PUBLISHED APRIL 12, 1921.

145,127. PARCHMENT-PAPERS, WAXED PAPERS, WRAPPING-PAPER, AND BOND WRITING-PAPERS. KALAMAZOO VEGETABLE PARCHMENT CO., Kalamazoo, Mich.
Filed December 27, 1920. Serial No. 141,526. PUBLISHED APRIL 12, 1921.

145,128. WASHING COMPOUNDS. KEENE WASHING PRODUCTS COMPANY, Keene, N. H.
Filed December 3, 1920. Serial No. 140,566. PUBLISHED APRIL 19, 1921.

145,129. FRESH CITRUS FRUITS. LAKELAND CITRUS CO., Lakeland, Fla.
Filed December 21, 1920. Serial No. 141,379. PUBLISHED APRIL 19, 1921.

145,130. LEATHER DRESSING, METAL POLISH, AND CERTAIN-NAMED CLEANING PREPARATIONS. EM. J. LEMIRE, Manchester, N. H.
Filed March 15, 1920. Serial No. 129,727. PUBLISHED APRIL 19, 1921.

145,131. PIECE GOODS WITH A COTTON OR MIXED WARP AND FILLING OF WOOL, &c. LESHER, WHITMAN & CO. INC., New York, N. Y.
Filed January 3, 1921. Serial No. 141,787. PUBLISHED APRIL 19, 1921.

145,132. PIECE GOODS WITH A COTTON OR MIXED WARP AND FILLING OF WOOL, &c. LESHER, WHITMAN & CO. INC., New York, N. Y.
Filed January 3, 1921. Serial No. 141,788. PUBLISHED APRIL 19, 1921.

145,133. SOAPS. LOS ANGELES SOAP COMPANY, Los Angeles, Calif.
Filed February 7, 1920. Serial No. 128,102. PUBLISHED APRIL 19, 1921.

145,134. READY-MIXED AND PASTE PAINTS, VARNISHES, WOOD-STAINS, AND PAINT ENAMELS. LOUISVILLE PAINT MFG. CO., Louisville, Ky.
Filed July 8, 1920. Serial No. 134,715. PUBLISHED APRIL 19, 1921.

145,135. METAL VALVES FOR GENERAL USE. T. MCAVITY AND SONS, LIMITED, St. John, New Brunswick, Canada.
Filed December 6, 1920. Serial No. 140,667. PUBLISHED APRIL 19, 1921.

145,136. HIGH-TEMPERATURE CEMENT. MCPHER CEMENT COMPANY, Scranton, Pa.
Filed November 20, 1919. Serial No. 125,115. PUBLISHED APRIL 19, 1921.

145,137. WHEAT BREAKFAST FOOD AND FOOD INGREDIENT. FRANKLIN MACVEAGH & COMPANY, Chicago, Ill.
Filed December 2, 1920. Serial No. 140,539. PUBLISHED APRIL 12, 1921.

145,138. CERTAIN NAMED FLOORINGS AND FLOORING MATERIALS. THOMAS MACK, Chicago, Ill.
Filed May 5, 1920. Serial No. 132,054. PUBLISHED APRIL 19, 1921.

145,139. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed September 27, 1920. Serial No. 137,666. PUBLISHED APRIL 19, 1921.

145,140. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed September 27, 1920. Serial No. 137,667. PUBLISHED APRIL 19, 1921.

145,141. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed September 27, 1920. Serial No. 137,668. PUBLISHED APRIL 19, 1921.

145,142. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed September 27, 1920. Serial No. 137,669. PUBLISHED APRIL 19, 1921.

145,143. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed November 18, 1920. Serial No. 139,809. PUBLISHED APRIL 19, 1921.

145,144. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed November 18, 1920. Serial No. 139,812. PUBLISHED APRIL 19, 1921.

145,145. CANDIES CALLED CARAMELS. DIEGO MARCIANI, Hackensack, N. J.
Filed January 23, 1920. Serial No. 127,514. PUBLISHED APRIL 19, 1921.

145,146. BEDSPREADS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,323. PUBLISHED APRIL 19, 1921.

145,147. WHEAT-FLOUR. MARTENS & KETELS MILLING CO., Sioux City, Iowa.
Filed January 27, 1921. Serial No. 142,849. PUBLISHED APRIL 12, 1921.

145,148. HOISTING MACHINERY. VOLNEY W. MASON & CO. INC., Providence, R. I.
Filed December 23, 1920. Serial No. 141,464. PUBLISHED APRIL 19, 1921.

145,149. PREDIGESTED FOOD AND FERMENTED-MILK PREPARATION. JACOB MELICOW, New York, N. Y.
Filed December 30, 1920. Serial No. 141,683. PUBLISHED APRIL 19, 1921.

145,150. SWEATERS, MUFFLERS, CAPS, AND HATS FOR LADIES AND GIRLS. MENGART KNITTING MILLS, New York, N. Y.
Filed September 24, 1919. Serial No. 123,072. PUBLISHED APRIL 19, 1921.

145,151. MOTOR CARS AND TRUCKS. MIDLAND MOTOR CAR AND TRUCK COMPANY, Oklahoma, Okla.
Filed March 28, 1918. Serial No. 109,847. PUBLISHED APRIL 19, 1921.

145,152. COOKIES. BENJAMIN F. MILLER, Philadelphia, Pa.
Filed January 22, 1921. Serial No. 142,636. PUBLISHED APRIL 12, 1921.

145,153. LEATHER AND CLOTH GLOVES AND LEATHER AND CLOTH MITTENS. MILWAUKEE GLOVE COMPANY, Milwaukee, Wis.
Filed September 15, 1920. Serial No. 137,231. PUBLISHED APRIL 19, 1921.

145,154. SATINS IN THE PIECE. T. J. MITCHELL & CO. INC., New York, N. Y.
Filed November 27, 1920. Serial No. 140,341. PUBLISHED APRIL 19, 1921.

145,155. BROAD SILKS IN THE PIECE. T. J. MITCHELL & CO. INC., New York, N. Y.
Filed November 27, 1920. Serial No. 140,342. PUBLISHED APRIL 12, 1921.

145,156. BABBITT METAL. MOSE-JONES BRASS & METAL COMPANY, St. Louis, Mo.
Filed January 31, 1921. Serial No. 142,988. PUBLISHED APRIL 5, 1921.

145,157. BABBITT METAL. MOSE-JONES BRASS & METAL COMPANY, St. Louis, Mo.
Filed January 31, 1921. Serial No. 142,989. PUBLISHED APRIL 5, 1921.

145,158. BABBITT METAL. MOSE-JONES BRASS & METAL COMPANY, St. Louis, Mo.
Filed January 31, 1921. Serial No. 142,990. PUBLISHED APRIL 5, 1921.

145,159. BABBITT METAL. MOSE-JONES BRASS & METAL COMPANY, St. Louis, Mo.
Filed January 31, 1921. Serial No. 142,991. PUBLISHED APRIL 5, 1921.

145,160. BEARING METAL. MOSE-JONES BRASS & METAL COMPANY, St. Louis, Mo.
Filed January 31, 1921. Serial No. 142,992. PUBLISHED APRIL 5, 1921.

145,161. RAZORS. EMIL MORRIS, Detroit, Mich.
Filed February 17, 1920. Serial No. 128,515. PUBLISHED APRIL 19, 1921.

145,162. JEWELERS' FINDINGS—NAMELY, CHAINS, SWIVELS, SPRING-RINGS, BARS, BEADS, AND EAR-LOOPS. M. S. CO., Attleboro, Mass.
Filed December 28, 1920. Serial No. 141,599. PUBLISHED APRIL 12, 1921.

145,163. MONTHLY PERIODICALS. NATIONAL EQUIPMENT COMPANY, Springfield, Mass.
Filed January 3, 1921. Serial No. 141,799. PUBLISHED APRIL 19, 1921.

145,164. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed January 28, 1921. Serial No. 142,894. PUBLISHED APRIL 12, 1921.

145,165. RADIAL DRILLS AND ATTACHMENTS THEREFOR. NILES-BEMENT-POND COMPANY, New York, N. Y.
Filed January 14, 1921. Serial No. 142,266. PUBLISHED APRIL 19, 1921.

145,166. METAL-POLISH. NOXON CHEMICAL PRODUCTS CO., Newark, N. J.
Filed October 22, 1920. Serial No. 138,686. PUBLISHED APRIL 26, 1921.

145,167. ELASTIC WEBBING, ELASTIC CORD, ELASTIC BRAID, AND DRESS-BELTING. THE OMO MANUFACTURING CO., Middletown, Conn.
Filed January 21, 1921. Serial No. 142,566. PUBLISHED APRIL 12, 1921.

145,168. COLLARS. CHARLES H. O'NEILL, Woodbury, N. J.
Filed July 9, 1920. Serial No. 134,752. PUBLISHED APRIL 19, 1921.

145,169. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 29, 1920. Serial No. 141,652. PUBLISHED APRIL 19, 1921.

145,170. ALUMINUM ALLOYS AND ALUMINUM UNFINISHED CASTINGS AND STRUCTURES. ALADAR PACZ, Cleveland Heights, Ohio.
Filed March 13, 1920. Serial No. 129,675. PUBLISHED APRIL 19, 1921.

145,171. PLEASURE-AUTOMOBILES. SIDNEY PARIS, New York, N. Y.
Filed November 9, 1920. Serial No. 139,428. PUBLISHED APRIL 19, 1921.

145,172. BLOTTING-PAPER. JOSEPH PARKER & SON COMPANY, New Haven, Conn.
Filed February 11, 1921. Serial No. 143,449. PUBLISHED APRIL 12, 1921.

145,173. WATCH-MAINSPRING AND WATCH-GLASSES. HENRY PAULSON, Chicago, Ill.
Filed November 29, 1920. Serial No. 140,404. PUBLISHED APRIL 19, 1921.

145,174. SHOE-POLISH. GEO. J. PELLETTIERE, Worcester, Mass.
Filed January 4, 1921. Serial No. 141,843. PUBLISHED APRIL 19, 1921.

145,175. MOTOR AND ENGINE OIL, LUBRICATING OILS AND GREASES, AND CARBONLESS MOTOR-OIL. PENN LUBRIC OIL COMPANY, Kansas City, Mo.
Filed February 24, 1919. Serial No. 116,122. PUBLISHED APRIL 19, 1921.

145,176. SINKS AND WASHTRAYS. PETRIUM SANITARY SINK CO., Berkeley, Calif.
Filed January 31, 1921. Serial No. 143,001. PUBLISHED APRIL 5, 1921.

145,177. SPARK-PLUGS. PORTER COMPANY, Chicago, Ill.
Filed May 8, 1919. Serial No. 118,273. PUBLISHED APRIL 19, 1921.

145,178. METALLIC PEN-POINTS. FRANCIS PRATT & SON, Somerville, Mass.
Filed October 15, 1920. Serial No. 138,335. PUBLISHED APRIL 19, 1921.

145,179. NICKEL-SILVER, STERLING-SILVER, GOLD-FILLED, AND SOLID-GOLD CIGARETTE-CASES. THE PRESTO CIGARETTE CASE CORP. OF N. Y. INC., North Attleboro, Mass.
Filed January 18, 1921. Serial No. 142,411. PUBLISHED APRIL 12, 1921.

145,180. RUBBER OR RUBBER AND FABRIC TIRES AND TUBES FOR VEHICLES. RACINE RUBBER COMPANY, Racine, Wis.
Filed April 1, 1920. Serial No. 130,492. PUBLISHED APRIL 19, 1921.

145,181. RUBBER OR RUBBER AND FABRIC TIRES AND TUBES FOR VEHICLES. RACINE RUBBER COMPANY, Racine, Wis.
Filed February 7, 1921. Serial No. 143,298. PUBLISHED APRIL 12, 1921.

145,182. CERTAIN NAMED JELLIES AND JAMS. THE RED WING COMPANY, INC., Fredonia, N. Y.
Filed December 24, 1920. Serial No. 141,506. PUBLISHED APRIL 12, 1921.

145,183. SAFETY-PINS. FRED REES, Meriden, Conn.
Filed February 21, 1921. Serial No. 143,895. PUBLISHED APRIL 12, 1921.

145,184. HAIR-NETS. REICHMAN & FAUST, New York, N. Y.
Filed December 2, 1920. Serial No. 140,543. PUBLISHED APRIL 12, 1921.

145,185. METERS FOR MEASURING THE FLOW OF LIQUIDS. REPUBLIC FLOW METERS CO., Chicago, Ill.
Filed January 17, 1921. Serial No. 142,362. PUBLISHED APRIL 5, 1921.

145,186. VEHICLE-TIRES MADE OF RUBBER. REVERE RUBBER COMPANY, Providence, R. I.
Filed January 11, 1921. Serial No. 142,101. PUBLISHED APRIL 12, 1921.

145,187. LEATHER BELTING. J. E. RHOADS & SONS, Philadelphia, Pa., and Wilmington, Del.
Filed January 31, 1921. Serial No. 143,012. PUBLISHED APRIL 12, 1921.

145,188. CUT TACKS. G. G. ROBERTS CORPORATION, Whitman, Mass.
Filed January 15, 1921. Serial No. 142,305. PUBLISHED APRIL 19, 1921.

145,189. SILK AND COTTON RIBBONS IN THE PIECE. ROSTEIN & HYMAN, New York, N. Y.
Filed May 1, 1920. Serial No. 131,920. PUBLISHED APRIL 19, 1921.

145,190. CONCENTRATED BARLEY-MALT FOR USE IN BEVERAGES. FERDINAND J. ROESER, Rochester, N. Y.
Filed July 26, 1920. Serial No. 135,434. PUBLISHED APRIL 19, 1921.

145,191. CERTAIN NAMED FLAT AND HOLLOW WARE AND JEWELRY. ROGERS, LUNT & BOWLEN COMPANY, Greenfield, Mass.
Filed December 28, 1920. Serial No. 141,606. PUBLISHED APRIL 12, 1921.

145,192. SILK YARNS. JOSEPH D. ROGERS, Paterson, N. J.
Filed December 24, 1920. Serial No. 141,505. PUBLISHED APRIL 19, 1921.

145,193. CERTAIN TRACTION DEVICES FOR USE ON AUTOMOBILE-WHEELS. THE ROWE CALK & CHAIN COMPANY, Plantsville, Conn.
Filed December 16, 1920. Serial No. 141,191. PUBLISHED APRIL 19, 1921.

145,194. CERTAIN NAMED YARNS, THREADS, FLOSS USEFUL FOR ART-NEEDLEWORK. BERNHARD ULMANN CO., INC., New York, N. Y.
Filed December 8, 1920. Serial No. 140,814. PUBLISHED APRIL 12, 1921.

145,195. ART-NEEDLEWORK PRODUCTS COMPRISING A FOUNDATION FABRIC, PATCHES OF FABRIC, BRAID AND YARN, COMPLETED, PARTLY COMPLETED, OR FOR COMPLETION BY THE CUSTOMER. BERNHARD ULMANN CO. INC., New York, N. Y.
Filed February 23, 1921. Serial No. 143,908. PUBLISHED APRIL 12, 1921.

145,196. CERTAIN NAMED INSTRUCTION-BOOKS AND SIMILAR PUBLICATIONS. BERNHARD ULMANN CO., INC., New York, N. Y.
Filed December 8, 1920. Serial No. 140,818. PUBLISHED APRIL 19, 1921.

145,197. DIE-HOLDERS, SCREW-PLATE GUIDES, SCREW-PLATES, AND SCREW-PLATE STOCKS. UNION TWIST DRILL COMPANY, Athol and Mansfield, Mass.
Filed December 15, 1920. Serial No. 141,143. PUBLISHED APRIL 5, 1921.

145,198. SHOE-TACKS, CHANNEL-NAILS, CLENCHING-NAILS, AND COBBLERS' NAILS. UNITED STATES TACK CO., New Bedford, Mass.
Filed November 15, 1920. Serial No. 139,686. PUBLISHED APRIL 19, 1921.

145,199. CERTAIN POSTMARKING, METERING, AND OTHER MACHINES. UNIVERSAL STAMPING MACHINE COMPANY, Stamford, Conn.
Filed December 14, 1920. Serial No. 141,087. PUBLISHED APRIL 19, 1921.

145,200. RUBBER PNEUMATIC TIRES. VICTORY RUBBER MANUFACTURING CO., Atlanta, Ga.
Filed June 14, 1920. Serial No. 133,718. PUBLISHED SEPTEMBER 14, 1920.

145,201. BOYS' OUTER CLOTHING—NAMELY, COATS, VESTS, TROUSERS, AND OVERCOATS. PHIL. WALCOFF & CO., INC., New York, N. Y.
Filed June 3, 1919. Serial No. 119,175. PUBLISHED APRIL 19, 1921.

145,202. MOTOR-OIL, CUP-GREASE, TRANSMISSION-GREASE, TRANSMISSION AND DIFFERENTIAL GREASE, TRANSMISSION-OIL, AND TRACTOR-OIL. WESTERN PETROLEUM CO., INCORPORATED, Chicago, Ill.
Filed June 9, 1920. Serial No. 133,510. PUBLISHED APRIL 19, 1921.

145,203. MINERAL WATERS. WHITE ROCK MINERAL SPRINGS COMPANY, Waukesha, Wis., and New York, N. Y.
Filed December 16, 1920. Serial No. 141,201. PUBLISHED APRIL 19, 1921.

145,204. CERTAIN BATHROOM-FIXTURES OF ENAMELED WARE. THE WHYTE NAML SPECIALTY CO. INC., Brooklyn, N. Y.
Filed November 27, 1920. Serial No. 140,363. PUBLISHED APRIL 19, 1921.

145,205. CERTAIN BATHROOM-FIXTURES OF ENAMELED WARE. THE WHYTE NAML SPECIALTY CO. INC., Brooklyn, N. Y.
Filed November 27, 1920. Serial No. 140,364. PUBLISHED APRIL 19, 1921.

145,206. CANNED CULTURED MILK. EMIL WILLADSEN, Hanover township, Morris county, N. J.
Filed January 5, 1921. Serial No. 141,889. PUBLISHED APRIL 12, 1921.

145,207. RAWHIDE SIDE LACE-LEATHER. FRANK B. WILLIAMS, Dover, N. H.; Mary Elisabeth Williams, Stacy L. Hanson, and Philip C. Brown, executors of said Frank B. Williams, deceased, assignors to I. B. Williams and Sons, Dover, N. H., a Corporation of New Hampshire.
Filed February 19, 1920. Serial No. 128,626. PUBLISHED APRIL 19, 1921.

145,208. HOT AND COLD ROLLED STRIP-STEEL. WORCESTER PRESSED STEEL COMPANY, Worcester, Mass.
Filed January 28, 1921. Serial No. 142,913. PUBLISHED APRIL 5, 1921.

145,209. VIEW-MIRRORS AND WINDSHIELDS FOR USE WITH CYCLES AND MOTOR-VEHICLES. CLAYTON-WRIGHT LTD., Birmingham, England.
Filed September 21, 1920. Serial No. 137,408. PUBLISHED APRIL 19, 1921.

145,210. BOTTLE-OPENERS AND BOTTLE-CAP REMOVERS. GEORGE A. WYETH, New York, N. Y.
Filed November 16, 1920. Serial No. 139,726. PUBLISHED APRIL 5, 1921.

145,211. LARD SUBSTITUTE COMPOSED OF COTTON-SEED OIL AND OTHER INGREDIENTS. OLIVER WYNNE, Norfolk, Va.
Filed October 16, 1920. Serial No. 138,417. PUBLISHED APRIL 19, 1921.

145,212. MONTHLY PUBLICATION. EARL R. ALLURED, Chicago, Ill.
Filed December 7, 1920. Serial No. 140,703. PUBLISHED MARCH 29, 1921.

145,213. LARD SUBSTITUTE COMPOSED OF COTTON-SEED OIL AND OTHER INGREDIENTS. OLIVER WYNNE, Norfolk, Va.
Filed October 16, 1920. Serial No. 138,418. PUBLISHED APRIL 19, 1921.

145,214. REMNANT-TAGS USED FOR TAGGING REMNANTS OF ALL KINDS. HERMAN ZUCKERMAN, Los Angeles, Calif.
Filed February 5, 1921. Serial No. 143,236. PUBLISHED APRIL 12, 1921.

145,215. CERTAIN ENGINES, AUTOMOTIVE MACHINERY, AND TOOLS. SCINTILLA, Solothurn, Switzerland.
Filed August 12, 1920. Serial No. 136,043. PUBLISHED APRIL 19, 1921.

145,216. PAPER TOWELS AND PAPER NAPKINS. SCOTT PAPER COMPANY, Chester, Pa.
Filed January 27, 1921. Serial No. 142,862. PUBLISHED APRIL 12, 1921.

145,217. WOOL RUGS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed December 11, 1920. Serial No. 140,966. PUBLISHED APRIL 19, 1921.

145,218. CANTON-FLANNEL. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 24, 1921. Serial No. 142,725. PUBLISHED APRIL 19, 1921.

145,219. BATISTE IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 24, 1921. Serial No. 142,726. PUBLISHED APRIL 19, 1921.

145,220. TICKING IN THE PIECE. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed January 24, 1921. Serial No. 142,730. PUBLISHED APRIL 19, 1921.

145,221. REFRACTORY BRICKS OF STANDARD AND SPECIAL SHAPES. SEABOARD REFRACTORIES COMPANY, Valentines, Raritan township, Middlesex county, N. J.
Filed February 1, 1921. Serial No. 143,064. PUBLISHED APRIL 12, 1921.

145,222. THREADS AND YARNS. SEA ISLAND THREAD CO. INC., New York, N. Y.
Filed December 31, 1920. Serial No. 141,735. PUBLISHED APRIL 19, 1921.

145,223. ARTIFICIAL-SILK YARN. SENOR & WERTHEIM INC., New York, N. Y.
Filed October 28, 1920. Serial No. 138,927. PUBLISHED APRIL 19, 1921.

145,224. MOTION-PICTURES. R. CECIL SMITH, West Fort Lee, N. J.
Filed January 28, 1921. Serial No. 142,910. PUBLISHED APRIL 5, 1921.

145,225. LETTER-HEADS AND CIRCULARS. WALTER P. SOUTHARD, Rocky River, Ohio.
Filed August 7, 1920. Serial No. 135,902. PUBLISHED FEBRUARY 22, 1921.

145,226. COTTON, WOOL, SILK, AND LINEN PIECE GOODS AND MIXTURES OF THE SAME. SOUTH & CENTRAL AMERICAN COMMERCIAL CO., INC., New York, N. Y.
Filed November 30, 1920. Serial No. 140,474. PUBLISHED APRIL 19, 1921.

145,227. TRANSPARENT BOOK AND DOCUMENT MENDING TISSUE. FRED AUGUSTUS STEWART, San Jose, Calif.
Filed January 15, 1921. Serial No. 142,300. PUBLISHED APRIL 12, 1921.

145,228. MOTION-PICTURES. STOLL FILM CORPORATION OF AMERICA, New York, N. Y.
Filed January 3, 1921. Serial No. 141,812. PUBLISHED APRIL 5, 1921.

145,229. PREPARED FELT FOR CONSTRUCTION PURPOSES. JUNIUS H. STONE, New York, N. Y.
Filed September 7, 1920. Serial No. 136,918. PUBLISHED APRIL 19, 1921.

145,230. CANNED VEGETABLES. THE CHARLES G. SUMMERS CO., Baltimore, Md.
Filed October 30, 1920. Serial No. 139,013. PUBLISHED APRIL 19, 1921.

145,231. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed January 28, 1921. Serial No. 142,895. PUBLISHED APRIL 12, 1921.

145,232. CANNED FRUITS AND CANNED VEGETABLES. THOMAS-BODY COMPANY, San Francisco, Calif.
Filed December 30, 1920. Serial No. 141,704. PUBLISHED APRIL 12, 1921.

145,233. VULCANIZED-FIBER TOOTHED WHEELS AND PICKERS FOR LOOMS. AKTIEBOLAGET TIDAN, Mariestad and Leksberg, Sweden.
Filed January 3, 1918. Serial No. 108,268. PUBLISHED APRIL 19, 1921.

145,234. SCHOOL-TABLETS. JAMES N. TINSLEY, St. Joseph, Mo.
Filed November 23, 1920. Serial No. 140,081. PUBLISHED APRIL 12, 1921.

145,235. METAL PLATES TO BE APPLIED TO SHOE-TIPS TO PROTECT THEM FROM WEAR. THE TIPTOES CORPORATION, New York, N. Y.
Filed December 9, 1920. Serial No. 140,852. PUBLISHED APRIL 19, 1921.

145,236. METAL PLATES TO BE APPLIED TO SHOE-TIPS TO PROTECT THEM FROM WEAR. THE TIPTOES CORPORATION, New York, N. Y.
Filed December 9, 1920. Serial No. 140,853. PUBLISHED APRIL 19, 1921.

145,237. HYDRAULICALLY PRESSED AND HAMMERED STEEL FORGINGS. TITUSVILLE FORGE COMPANY, Titusville, Pa.
Filed January 5, 1921. Serial No. 141,886. PUBLISHED APRIL 19, 1921.

145,238. PUBLICATIONS. THE TRAFFIC PUBLISHING COMPANY, New York, N. Y.
Filed October 25, 1920. Serial No. 138,791. PUBLISHED APRIL 19, 1921.

145,239. LEATHER BOOTS, SHOES, SLIPPERS, AND MOCCASINS. J. S. TURNER MANUFACTURING CO., Lowell, Mass.
Filed December 6, 1920. Serial No. 140,685. PUBLISHED APRIL 19, 1921.

145,302. GREASE-GUNS. THE DEMING COMPANY, Salem, Ohio.
Filed August 9, 1920. Serial No. 135,917. PUBLISHED APRIL 5, 1921.

145,303. [WITHDRAWN.]

TRADE-MARK REGISTRATIONS GRANTED

(ACT OF MARCH 19, 1920 SEC. 1 (b)).

JULY 26, 1921.

145,240. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALBERGER PUMP AND CONDENSER COMPANY, New York and Newburgh, N. Y. Filed Mar. 15, 1921. Serial No. 144,761.

OCCLUDER

Particular description of goods.—Air Compressors and Ejectors.

Claims use since Feb. 1, 1918.

145,241. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ALLIGATOR LINIMENT COMPANY, Charleston, S. C. Filed Jan. 11, 1921. Serial No. 142,100.

YAKIMA'S



INDIAN HERBS

Particular description of goods.—Medicines for the Treatment of Diseases and Disorders of the Liver, Kidneys, Urinary Organs, Stomach, and Intestines.

Claims use since 1909.

145,242. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Nov. 11, 1920. Serial No. 139,491.

DUNDEE

Particular description of goods.—Bagging Manufactured from Jute Fiber.

Claims use since Dec. 31, 1905.

145,243. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed May 2, 1921. Serial No. 147,075.

ONCE GROUND

Particular description of goods.—Tripoli Flour (Ground Tripoli Stone) Used as a Polishing Material.

Claims use since Dec. 1, 1919.

145,244. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed May 2, 1921. Serial No. 147,077.

DOUBLE GROUND

Particular description of goods.—Tripoli Flour (Ground Tripoli Stone) Used as a Polishing Material.

Claims use since Dec. 1, 1919.

145,245. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed May 2, 1921. Serial No. 147,079.

AIR FLOAT

Particular description of goods.—Tripoli Flour (Ground Tripoli Stone) Used as a Polishing Material.

Claims use since Dec. 1, 1919.

145,246. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUSTIN MACHINERY CORPORATION, New York, N. Y. Filed Aug. 24, 1920. Serial No. 136,389.

AUSTIN
MOVES THE EARTH
MIXES THE CONCRETE

Particular description of goods.—Machinery for Trenching, Ditching, Grading, Excavating, Digging, Backfilling, Dredging, Levee-Building; Earth, Peat, Ore, and Coal Moving, Cutting, and Boring; Concrete-Mixing, Paving, Asphalt-Mixing, for Loading Cars, Wagons, Trucks, Bins, and Batch-Boxes; Tractors, Flushers for Cleaning Streets or other Surfaces Upon Which They are Used; Sprinklers for Sprinkling with Water or Oil the Surfaces of Roadways, Streets; Road-Rollers, Tampers, Road-Oilers, Sloping Attachments, Drag-Lines for Use with Excavating and Dredging Machines, Locomotive, Lifting-Cranes, Traveling Cranes, and Parts Thereof.
Claims use since 1888.

145,247. (CLASS 2. RECEPTACLES.) BANISTER & POLLARD CO., Newark, N. J. Filed May 17, 1918. Serial No. 110,942.



No registration rights being claimed for the words "Home," "Of," "Good," and "Hardware" apart from the mark shown in the drawing.
Particular description of goods.—Ash-Cans, Gasolene-Cans, Garbage-Cans, Tool-Boxes, Tool-Bags, Oil-Cans, and Water-Pails.
Claims use since 1911.

145,248. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BANISTER & POLLARD CO., Newark, N. J. Filed May 17, 1918. Serial No. 110,944.



Particular description of goods.—Brass and Copper in Sheet, Rod, and Wire Form, Lead, Antimony, Spelter, Babbitt Metal, Bearing Metal, Phosphor-Bronze, and Solder.
Claims use since 1911.

145,249. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BARRETT MACHINE TOOL COMPANY, Meadville, Pa. Filed Mar. 1, 1921. Serial No. 144,176.

"BARRETT"

Particular description of goods.—Horizontal Cylinder-Boring Machines, Three-Way Facing-Machines, Horizontal Locomotive-Cylinder-Boring Machines, Pump-Cylinder-Boring Machines, and All other Types of Cylinder-Boring Machines Consisting of Two, Three, Four, and Six Spindle Machines, These Machines Being Used for the Boring and Facing of Cylinders.
Claims use since 1909.

145,250. (CLASS 17. TOBACCO PRODUCTS.) BAYUK BROS. INCORPORATED, Baltimore, Md., and Philadelphia, Pa. Filed Dec. 1, 1920. Serial No. 140,481.

BAYUK
PHILADELPHIA
HAND MADE
PERFECTO

Particular description of goods.—Cigars, Cigarettes, and Smoking and Chewing Tobacco.
Claims use since November, 1912.

145,251. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BENNETT AND ASPDEN COMPANY, Philadelphia, Pa. Filed Jan. 3, 1921. Serial No. 141,755.

STERLING

Particular description of goods.—Velvets in the Piece.
Claims use since 1914.

145,252. (CLASS 32. FURNITURE AND UPHOLSTERY.) BERGMANN MFG. CO., Philadelphia, Pa., assignors to Columbia Steel Equipment Co., a Corporation of Pennsylvania. Filed July 10, 1920. Serial No. 134,772.

COLUMBIA

Particular description of goods.—Steel Filing-Cabinets.
Claims use since February, 1920.

145,253. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) W. L. BRUBAKER & BROS., Millersburg, Pa. Filed Feb. 28, 1920. Serial No. 128,999.

WIZARD

Particular description of goods.—Machines for Boring Automobile and Locomotive Cylinders.
Claims use since on or about the 13th day of February, 1920.

145,254. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BRYCE MANUFACTURING COMPANY, Forestville, Conn. Filed Feb. 19, 1921. Seral No. 143,804.



Particular description of goods.—Steel Balls for Bearings.
Claims use since July 13, 1918.

145,255. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) J. J. COOK CHEMICAL CO., Milwaukee, Wis. Filed Jan. 24, 1921. Serial No. 142,692.



Particular description of goods.—Preparation for Preventing Misting of Windows and Windshields or the Like.
Claims use since November, 1917.

145,256. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DUNSEA & NATHAN INC., New York, N. Y. Filed July 26, 1920. Serial No. 135,410.

PLYMOUTH FABRICS

Particular description of goods.—Cotton Piece Goods.
Claims use since about May 1, 1906.

145,257. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) DETROIT AUTOMATIC SCALE COMPANY, Detroit, Mich., assignor to The Computing Scale Company, Dayton, Ohio, a Corporation of Ohio. Filed Apr. 5, 1921. Serial No. 145,741.

DETROIT

Particular description of goods.—Weighing-Scales.
Claims use since September, 1914.

145,258. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLS & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921. Serial No. 144,502.

PERFECTION

Particular description of goods.—Lawn-Mowers.
Claims use since 1910.

145,259. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLS & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921. Serial No. 144,503.

GREENWOOD

Particular description of goods.—Lawn-Mowers.
Claims use since 1914.

145,260. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLS & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921. Serial No. 144,505.

MATCHLESS

Particular description of goods.—Lawn-Mowers.
Claims use since 1908.

145,261. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLS & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921. Serial No. 144,506.

STERLING

Particular description of goods.—Lawn-Mowers.
Claims use since 1908.

145,262. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921. Serial No. 144,509.

TERRACE • SPECIAL

Particular description of goods.—Lawn-Mowers.
Claims use since 1915.

145,263. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRE MFG. CO., Richmond, Ind. Filed Mar. 9, 1921. Serial No. 144,510.

HIGH SPEED

Particular description of goods.—Lawn-Mowers.
Claims use since 1901.

145,264. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EVERLASTING VALVE COMPANY, Jersey City, N. J. Filed Oct. 19, 1920. Serial No. 138,482.

EVERLASTING

Particular description of goods.—Valves Wherein the Sealing Member is Moved in a Plane Approximately at Right Angles to the Axis of the Valve-Seat, as Contradistinguished from Valves Wherein the Sealing Member is Moved in a Plane Parallel with Such Axis.
Claims use since 1906.

145,265. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FEDERAL ADDING MACHINE CORPORATION, New York, N. Y. Filed May 17, 1921. Serial No. 147,825.

FEDERAL

Particular description of goods.—Typewriters.
Claims use since on or about Oct. 1, 1917.

145,266. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GREAT WESTERN MILLING COMPANY, Los Angeles, Calif. Filed Aug. 9, 1920. Serial No. 135,922.

Besgrade

Particular description of goods.—Wheat-Flour, Graham Flour, Whole-Wheat Flour, White Cornmeal, Yellow Cornmeal, Health-Bran, Dairy Feed, Hog Feed, Poultry-Mash, Scratch Food, Chick Feed, Chick-Mash.
Claims use since about May 10, 1916.

145,267. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE GRISWOLD MFG. CO., Erie, Pa. Filed Feb. 12, 1921. Serial No. 143,494.

GRISWOLD

TITE-TOP BASTER

Particular description of goods.—Roasting-Pots.
Claims use since Aug. 21, 1919.

145,268. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE HERRMANN GAUGE CO., Detroit, Mich. Filed Mar. 29, 1919. Serial No. 117,014.

SNAP

Particular description of goods.—Thread-Gages.
Claims use since about September, 1911.

145,269. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed May 3, 1921. Serial No. 147,162.

Madison

Particular description of goods.—Holland Shade-Cloth.
Claims use since about Aug. 15, 1915.

145,270. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed May 3, 1921. Serial No. 147,165.

Peerless

Particular description of goods.—Holland Shade-Cloth.
Claims use since about Jan. 1, 1920.

145,271. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed May 3, 1921. Serial No. 147,166.

NON-FADE

Particular description of goods.—Scotch Beetled Window-Holland.
Claims use since about Sept. 1, 1919.

145,272. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. F. A. JONES, St. Louis, Mo. Filed Mar. 22, 1921. Serial No. 145,068.

PILARY

Particular description of goods.—Ointment for the Treatment of the Hair and Scalp.
Claims use since Feb. 5, 1920.

145,273. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE LUFKIN RULE COMPANY, Saginaw, Mich. Filed Mar. 2, 1921. Serial No. 144,286.

Instantaneous

Particular description of goods.—Measuring-Rules and Measuring-Tapes.
Claims use since 1910.

145,274. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE LUFKIN RULE COMPANY, Saginaw, Mich. Filed Mar. 2, 1921. Serial No. 144,287.

SPRING JOINT

Particular description of goods.—Measuring-Rules and Measuring-Tapes.
Claims use since 1908.

145,275. (CLASS 38. PRINTS AND PUBLICATIONS.) J. MCKEEN CATTELL, Garrison, N. Y. Filed Apr. 2, 1921. Serial No. 145,615.

THE SCIENCE PRESS

Particular description of goods.—Periodicals Published Weekly and at other Intervals.
Claims use since 1901.

145,276. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MARIETTA MANUFACTURING COMPANY, Point Pleasant, W. Va. Filed Mar. 30, 1920. Serial No. 130,373.

ADE

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C

O.

Particular description of goods.—Marine Steam-Engines.
Claims use since June, 1915.

145,277. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. MARSH COMPANY, INC., Raleigh, N. C. Filed Dec. 16, 1920. Serial No. 141,182.

BLOOMSBURY

Particular description of goods.—Canned Fruits and Vegetables.
Claims use since May 20, 1920.

145,278. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERRYWEATHER COFFEE, TEA & SPICE CO., Cincinnati, Ohio. Filed June 17, 1920. Serial No. 133,832.

SINTON

Particular description of goods.—Coffee.
Claims use since the spring of 1902.

145,279. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MINNEAPOLIS HEAT REGULATOR CO., Minneapolis, Minn. Filed Feb. 16, 1921. Serial No. 143,653.

MINNEAPOLIS

Particular description of goods.—Thermostatic Heat-Regulators.
Claims use since about 1912.

145,280. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MINNEAPOLIS HEAT REGULATOR CO., Minneapolis, Minn. Filed Feb. 25, 1921. Serial No. 144,033.

The Heart of the Heating Plant

Particular description of goods.—Thermostatic Heat-Regulators.
Claims use since about 1912.

145,281. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NEWPORT OPTICAL MANUFACTURING CO., Brooklyn, N. Y. Filed Mar. 18, 1921. Serial No. 144,937.



Particular description of goods.—Hinges.
Claims use since January, 1919.

145,282. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE PAINE COMPANY, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 144,151.

PAINE

Particular description of goods.—Expansion-Shells, Toggle-Bolts, Fixture-Hangers, and Contractible Cores.
Claims use since July 2, 1912.

145,283. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) F. A. PATRICK & CO., Duluth, Minn. Filed Jan. 5, 1921. Serial No. 141,880.

Patrick DULUTH

Particular description of goods.—Fabric Emblems, Bandeaux, Belting for Personal Wear, Button-Molds, Combs, Dress-Shields, Corset-Shields, Collar-Supporters, Cuff-Holders, Snap-Fasteners, Corset-Clasps, Hooks and Eyes, Crochet-Hooks, Hand-Darners, Needles for Hand-Sewing, Drapery-Pins, Embroidery-Stilettos, Embroidery-Hoops, Tatting-Shuttles, Pincushions, Dress-Weights, Featherbone, Corset-Laces, Shoe-Laces, Skirt-Banding, Binding, Fringe, Gimp, Ruche, Non-Electric Curling-Irons, Fans for Personal Use, and the Following Articles Made of Either Base Metal or Composition, Namely: Barrettes, Buckles, Buttons, Button-Bars, Button-Rings, Collar-Buttons, Hatpins, Fancy Pins, Hairpins, Safety-Pins, Toilet-Pins, and Thimbles.
Claims use since Apr. 2, 1910.

145,284. (CLASS 37. PAPER AND STATIONERY.) PAPER MANUFACTURING CO. INC., Philadelphia, Pa. Filed Apr. 7, 1921. Serial No. 145,855.

PERFECTION DIE WIPING PAPER

Particular description of goods.—Paper for Wiping Ink from the Faces of Dies.
Claims use since Dec. 1, 1905.

145,285. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PEERLESS KEY CO., INC., New York, N. Y. Filed Mar. 21, 1921. Serial No. 145,039.

PEERLESS

Particular description of goods.—Typewriter-Keys, Twirler-Rings, and Shock-Absorbers.
Claims use since January, 1914.

145,286. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) HERBERT C. REES, San Antonio, Tex. Filed Dec. 19, 1919. Serial No. 126,260.

"Kent-break" Rimless Glasses

Particular description of goods.—Eyeglasses and Spectacles.
Claims use since Dec. 6, 1919.

145,287. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERTS AND SCHAEFER COMPANY, Chicago, Ill. Filed June 1, 1920. Serial No. 133,161.

MARCUS HORIZONTAL PICKING TABLE SCREEN

Particular description of goods.—The Marcus Horizontal Picking-Table Screen for Sorting and Conveying Coal or other Materials.
Claims use since July 18, 1912.

145,288. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MAX ROBINS, Chicago, Ill. Filed June 25, 1920. Serial No. 134,219.



Particular description of goods.—Non-Alcoholic, Maltless Beverages.
Claims use since July 3, 1919.

145,289. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROYERSFORD FOUNDRY & MACHINE CO., Royersford, Pa. Filed Mar. 11, 1921. Serial No. 144,637.

SELL'S

Particular description of goods.—Roller-Bearings.
Claims use since Feb. 10, 1910.

145,290. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRY F. SIMON, New York, N. Y. Filed Mar. 1, 1921. Serial No. 144,206.

GUARANTEED SATISFACTION LINCOLN MADE LINCOLN BUILT LINCOLN TYPEWRITER CO. 280 BROADWAY NEW YORK, U.S.A.

Particular description of goods.—Typewriters.
Claims use since June 15, 1919.

145,291. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CORA L. SCOVIL, New York, N. Y. Filed Mar. 1, 1921. Serial No. 144,205.

PATCH POSTER

Particular description of goods.—Display Devices in the Nature of Pictures Made of Textile Fabric.
Claims use since May 20, 1920.

145,292. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) A. STEINHARDT & BRO., New York, N. Y. Filed May 27, 1921. Serial No. 148,352.

Practical

Particular description of goods.—Hair-Curlers.
Claims use since 1912.

145,293. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) W. P. TANNER-GROSS & COMPANY, INC., New York, N. Y. Filed Jan. 31, 1920. Serial No. 127,814.

KEWAUNEE

Particular description of goods.—Cornmeal.
Claims use since Aug. 11, 1919.

145,294. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed June 16, 1920. Serial No. 133,807.



Particular description of goods.—Golf-Balls.
Claims use since Apr. 1, 1920.

145,295. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE UNIVERSAL MACHINE COMPANY, Bowling Green, Ohio. Filed Apr. 4, 1921. Serial No. 145,725.

STANDARD

Particular description of goods.—Universal Joints and Bolt-Cutters.
Claims use since 1915 for universal joints and since 1911 for bolt-cutters.

145,296. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WERT MANUFACTURING COMPANY, Chicago, Ill. Filed Feb. 26, 1921. Serial No. 144,116.

PERFECT
FOR PERMANENCE

Particular description of goods.—Brick, Building-Block, and Tile-Making Machinery and Tools and Concrete-Mixers.
Claims use since Jan. 1, 1903.

145,297. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WHITAKER-GLESSNER COMPANY, Wheeling, W. Va. Filed Mar. 12, 1921. Serial No. 144,696.

PORTSMOUTH-IRON

Particular description of goods.—Iron and Steel Sheets.
Claims use since July, 1911.

145,298. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) WHITAKER-GLESSNER COMPANY, Wheeling, W. Va. Filed Mar. 12, 1921. Serial No. 144,697.

OHIO METAL

Particular description of goods.—Iron and Steel Sheets.
Claims use since July, 1911.

145,299. (CLASS 17. TOBACCO PRODUCTS.) EUGENE SPENCER WILSON, Houston, Tex. Filed Sept. 11, 1920. Serial No. 137,098.

A GOOD SMOKE

Particular description of goods.—Cigars.
Claims use since Aug. 1, 1919.

145,300. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE A. A. WOOD & SONS COMPANY, Atlanta, Ga. Filed Nov. 18, 1920. Serial No. 139,823.

"EDGE-CUT"

Particular description of goods.—Files.
Claims use since Mar. 27, 1916.

145,301. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WOOD TURRET MACHINE CO., Brazil, Ind. Filed Mar. 1, 1921. Serial No. 144,211.

THE TILTED TURRET

Particular description of goods.—Turret-Lathes and Screw-Machines.
Claims use since July 15, 1907.

LABELS

REGISTERED JULY 26, 1921.

23,120.—*Title:* "HANDI-HANGER BROOM." (For Brooms and Whisk-Brooms.) ACME BROOM COMPANY, Chicago, Ill. Filed February 21, 1921.

23,121.—*Title:* "BON SANTÉ OINTMENT." (For Boxes Containing Ointment.) BON SANTÉ COMPANY, De Land, Fla. Filed January 20, 1921.

23,122.—*Title:* "BON SANTÉ BAUME (GOOD HEALTH BALM)." (For Boxes Containing Medicine for Stomach Trouble.) BON SANTÉ COMPANY, De Land, Fla. Filed January 20, 1921.

23,123.—*Title:* "CALIGRAPO." (For Concentrated Grape Products in the Form of Grape Syrups.) CALIFORNIA GRAPE PRODUCTS CO., Ukiah, Calif. Filed April 5, 1921.

23,124.—*Title:* "TRUSTMENT." (For Printed Matter, Insurance Policies, Shares of Stock, Bonds, and other Certificates of Indebtedness.) FRANK J. COOPER, San Francisco, Calif. Filed December 22, 1920.

23,125.—*Title:* "SMILING BABY." (For Infants' Bath-Robes.) FEDERAL UNDERWEAR CO., New York, N. Y. Filed August 5, 1920.

23,126.—*Title:* "MELROSINE." (For Insecticides for the Destruction of Rose-Bugs.) GARDEN CHEMICAL CO. INC., New York, N. Y. Filed February 5, 1921.

23,127.—*Title:* "GORDON MILK AND CHOCOLATE SUPREME." (For Chocolate Bars.) THE GORDON CHOCOLATE CO., Cincinnati, Ohio. Filed March 7, 1921.

23,128.—*Title:* "CHOCOLATE MILK SUGAR ONLY." (For Candy.) THE GORDON CHOCOLATE COMPANY, Cincinnati, Ohio. Filed March 24, 1921.

23,129.—*Title:* "BETTER BLOCKS." (For Candy.) THE GORDON CHOCOLATE COMPANY, Cincinnati, Ohio. Filed March 24, 1921.

23,130.—*Title:* "HEILEMAN'S NEW STYLE LAGER." (For Cereal Beverages.) G. HEILEMAN BREWING CO., La Crosse, Wis. Filed March 19, 1920.

23,131.—*Title:* "$1 000 00 GUARANTEED RAT AND MICE KILLER." (For Cans Containing a Guaranteed Rat and Mice Killer.) B. HELLER & CO., Chicago, Ill. Filed January 29, 1921.

23,132.—*Title:* "$1 000.00 GUARANTEED ANT-BANE." (For Cans Containing a Guaranteed Ant-Killer.) B. HELLER & CO., Chicago, Ill. Filed January 29, 1921.

23,133.—*Title:* "$1 000.00 GUARANTEED ROACH KILLER." (For Cans Containing a Guaranteed Roach-Killer.) B. HELLER & CO., Chicago, Ill. Filed January 29, 1921.

23,134.—*Title:* "DEODORINE." (For Receptacles Containing Deodorine.) B. HELLER & CO., Chicago, Ill. Filed February 10, 1921.

23,135.—*Title:* "I-X-L." (For Receptacles Containing I-X-L, a Cleansing Preparation.) B. HELLER & CO., Chicago, Ill. Filed February 10, 1921.

23,136.—*Title:* "SNOW." (For Receptacles Containing Snow, a Preparation for Use in the Manufacture of Ice-Cream.) B. HELLER & CO., Chicago, Ill. Filed February 10, 1921.

23,137.—*Title:* "VARN-I-GLO." (For Cans Containing Varn-I-Glo, a Furniture-Polish.) B. HELLER & CO., Chicago, Ill. Filed February 21, 1921.

23,138.—*Title:* "WHITE NAPHTHA BORAX SOAP." For Soap.) A. HOEFNER & SONS, Buffalo, N. Y. Filed January 22, 1921.

23,139.—*Title:* "EGG-SAVER." (For a Solution of Sodium Silicate.) HOME PRODUCTS, INC., Rahway, N. J. Filed March 5, 1921.

23,140.—*Title:* "MAR-RANDA." (For Hair-Shampoo.) JESSE B. MARS, Providence, R. I. Filed March 5, 1921.

23,141.—*Title:* "SUNSET NUT-MARGARINE." (For Cartons Containing Oleomargarin.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to National Dairy Company, Providence, R. I. Filed February 23, 1921.

23,142.—*Title:* "FUSSELL'S ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Fussell-Young Ice Cream Company, Washington, D. C. Filed February 23, 1921.

23,143.—*Title:* "FADDEN'S QUALITY ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to M. F. Fadden & Sons, Inc., Scranton, Pa. Filed February 23, 1921.

23,144.—*Title:* "NUTTIES." (For Candy of Nut Variety.) RICHARD G. MORLE, Brooklyn, N. Y. Filed March 10, 1921.

23,145.—*Title:* "CHECKER INSECTICIDE." (For Garden-Insecticides.) OSHKOSH SEED COMPANY, Oshkosh, Wis. Filed February 26, 1921.

23,146.—*Title:* "RED ARROW BRAND." (For Citrus Fruits.) SHAMIE BROS., Detroit, Mich. Filed March 14, 1921.

23,147.—*Title:* "LASKER'S MOOSE YARNS." (For Woolen and Worsted Yarns.) STAR MERCHANDISE COMPANY, New York, N. Y. Filed November 30, 1920.

23,148.—*Title:* "HUDSON BACON." (For Bacon.) JOSEPH STERN & SONS' INC., New York, N. Y. Filed March 14, 1921.

23,149.—*Title:* "HUDSON BOILED HAM." (For Boiled Ham.) JOSEPH STERN & SONS' INC., New York, N. Y. Filed March 14, 1921.

23,150.—*Title:* "HUDSON HAM." (For Ham.) JOSEPH STERN & SONS' INC., New York, N. Y. Filed March 14, 1921.

23,151.—*Title:* "APACHE." (For Cigars.) TRANS-PACIFIC TRADING COMPANY, INC., Chicago, Ill. Filed March 11, 1921.

PRINTS

REGISTERED JULY 26, 1921.

5,681.—*Title:* "CORNED BEEF YOU WILL LIKE." (For Advertising Purposes for Canned Corned Beef.) ACME PACKING COMPANY, Chicago, Ill. Filed October 14, 1920.

5,682.—*Title:* "PRICE'S GROWN-UPS." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed December 29, 1920.

5,683.—*Title:* "AFTER THE HIKE." (For Advertising Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed February 25, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

CLEMENT *v.* ROBERTS.

Decided June 6, 1921.

PATENTS—INTERFERENCE—DILIGENCE EXERCISED ON INVENTION NOT IN ISSUE INSUFFICIENT.

Where the issue of an interference related to an invention for use in a semi-automatic as well as in a full automatic telephone system, diligence by the junior party from January, 1905, to September, 1905, on a device to be used in a full automatic system is insufficient to overcome the senior party's constructive reduction to practice on August 31, 1905, as diligence was not exercised on the invention in issue, but on another invention.

Mr. H. A. Dodge and *Mr. W. G. McKnight* for Clement.

Mr. E. W. Adams, Mr. G. W. Rich, and *Mr. H. C. Workman* for Roberts.

VAN ORSDEL, *J.*:

This appeal is from the decision of the Commissioner of Patents awarding priority of invention to appellee Roberts, the junior party.

The interference is in seven counts, of which count 1 is illustrative:

1. In an automatic telephone exchange system a plurality of subscribers' stations and metallic circuit lines extending thence to a central office, automatic switching apparatus for interconnecting the lines at the central office, a source of current connected in the metallic circuit of a subscriber's line, means at the substation to make and break the said metallic circuit at will, the makes and the breaks being of varying but predetermined duration, and means at the central office responsive to such makes and breaks in the metallic circuit to actuate, control and release the automatic switching apparatus and also to ring the wanted subscriber, substantially as described.

Roberts is conceded to have been the first to conceive the invention; hence, the case turns upon his diligence at or just before Clement came into the field. The dates are not controverted. Roberts is awarded January 24, 1905, for disclosure, based upon his blue print Exhibit 3 of that date, upon which the counts of the interference may be clearly read. He filed March 10, 1906.

We agree with the Board of Examiners-in-Chief that Clement constructively reduced the invention to practice in an application for patent filed August 31, 1905. His present application was filed December 9, 1905, but the former application disclosed the invention here in interference.

The Clement application relied upon for disclosure required the intervention of an operator at the central station to connect the call with an automatic first selector-switch, through which the call could be extended automatically to the number desired.

Roberts on the other hand contends that his system required a special form of interrupter in order that the impulses could be accurately timed. A drawing disclosing the interrupter was completed September 7, 1905. It is upon this that Roberts claimed the exercise of diligence at and prior to Clement's entrance into the field, but we find nothing in the claims limiting them to a full automatic system, or requiring a direct automatic connection between the calling party and the first selector switch. On this point the Board of Examiners-in-Chief said:

We do not find anything in the issues that limits them to a full automatic system or to a *direct* connection to the subscriber's line with the first selector switch. The claims cover only a means for controlling a series of automatic switches for extending a call over a metallic or two wire circuit from the calling subscriber to the called subscriber and when the central operator plugs in, the operation of the switches is exactly as specified in the issues. We regard the issues as covering specific means of operating the switches and extending the call whether it is used in a semi-automatic or a full automatic system.

Roberts had the invention of the issue complete in January, 1905, and the time he consumed until September of the same year was in perfecting an improvement not required by the present issue. This conduct on the part of an inventor does not constitute diligence. In *Lotterhand* v. *Hanson* (23 App. D. C., 372.) this court, considering a similar situation, said:

The excuse given by him (Lotterhand) or for him is that he desired to invent a new typewriter wherein to introduce his invention and thereby to avoid the necessity of using any of the existing typewriters. In other words, having made one invention, complete in itself and ready to be patented, if he did actually make it or have a conception of it, he deliberately waited for a year or two years until he should have time to make another invention to combine with it and therein to use it to the best advantage for himself. But this excuse cannot be accepted under any of the authorities as explaining the absence of diligence, while another man was actively in the field of invention at the same time. To delay one invention for the sake of another projected invention to be used in connection with it, and which might never be realized, cannot be construed in the patent law as an exercise of due diligence.

Following the policy of this court in giving the claims the broadest interpretation of which they will reasonably admit, (*Miel* v. *Young*, 29 App. D. C., 481; *Kirby* v. *Clements*, 44 App. D. C., 12; *Monte* v. *Dunkley*, 46 App. D. C., 70,) we are not at liberty to inject the limitation contended for by

Roberts into the claims to meet the exigencies of his case.

The decision is reversed.

Reversed.

Supreme Court of the District of Columbia.

MATTULLATH AEROPLANE COMPANY v. NEWTON, COMMISSIONER OF PATENTS.

Decided April 8, 1920.

PATENTS—BILL IN EQUITY UNDER SECTION 4915, REVISED STATUTES—TIME FOR FILING—EFFECT OF MOTION FOR REHEARING.

Under section 4894, Revised Statutes, one year from the date of a decision by the Court of Appeals of the District of Columbia is allowed in which to bring a suit in equity under section 4915, Revised Statutes; (*Gandy* v. *Marble*, 122 U. S., 432;) but this time runs from the date of the decision of the court affirming the decision of the Commissioner of Patents and is not suspended or extended by a motion for rehearing, since no provision for rehearing in such cases is found in the rules of the Patent Office, the court of appeals, or in any statute.

Mr. W. H. Swenarton for Mattullath Aeroplane Company.

Mr. T. A. Hostetler for the Commissioner of Patents.

GOULD, *J.*:

The bill in this case was filed on February 23, 1918, under section 4915, R. S. U. S., plaintiff seeking a decree that it was entitled to receive a patent for an invention connected with flying-machines. The bill recites that the original application was rejected by the Patent Office, April 25, 1916; that an appeal was taken to the Court of Appeals of the District of Columbia, and that "on or about the 26th day of February, 1917," the court of appeals transmitted to the Commissioner of Patents its mandate affirming the said decision.

The case is before this court on a motion to dismiss the bill on the ground that the suit was not brought within one year after the decision of the court of appeals refusing the patent. As heretofore stated on the face of the bill, it is alleged that the decision of the court of appeals, affirming the decision of the Commissioner of Patents rejecting plaintiff's application, was transmitted to the Commissioner of Patents "on or about the 26th day of February, 1917." As the bill was filed February 23, 1918, it would appear to have been filed within one year from the decision of the court of appeals.

It appears, however, from the brief filed for the Commissioner of Patents, that the decision of that official was affirmed by the court of appeals on February 5, 1917, and that would appear to be borne out by the record in the case (*in re Mattullath Aeroplane Company*, 46 App. D. C., 143) where the recital is that the case was decided by the court February 5, 1917, affirming the Commissioner in rejecting the application. This is not denied in the brief filed for the plaintiff, the latter's contention being that by reason of having filed on February 21, 1917, "a motion for re-argument and modification of the opinion," which was denied on February 24, 1917, the year during which he might file his bill under section 4915, did not begin to run until the latter date, thus bringing the filing of the present bill within the year from the refusal of the application, so that the question before the court is simply this:

Did the filing of the motion for re-argument by the plaintiff, and the denial thereof by the court, extend the time during which plaintiff could file his bill?

Section 4915 above referred to, reads as follows:

Whenever a patent or application is refused either by the Commissioner of Patents or by the Supreme Court of the District of Columbia, upon appeal from the Commissioner, the applicant may have remedy by a bill in equity.

The Supreme Court of the United States in *Gandy* v. *Marble* (122 U. S., 432) held that the time for bringing suits under section 4915, above referred to, was governed by section 4894, R. S. U. S., which reads as follows:

All applications for patents shall be completed and prepared for examination within one year after the filing of the application, and in default thereof, or upon failure of the applicant to prosecute the same within one year after any action therein, of which notice shall have been given to the applicant, they shall be regarded as abandoned by the parties thereto, unless it be shown to the satisfaction of the Commissioner of Patents that such delay was unavoidable.

The same conclusion was reached in the case of *Westinghouse Electric Company* v. *Ohio Brass Company*, (186 Fed. Rep., 518.)

The contention of the plaintiff that the motion for rehearing extended the time for appeal is answered by the decision of the court of appeals in *Ross* v. *Loewer*, (9 App. D. C., 563,) where it was held that a motion for rehearing does not suspend or extend the time for taking appeals from the Commissioner of Patents to that court.

In the course of its opinion the court said:

The procedures of the Patent Office are not controlled by the usual rules of practice, but are controlled by statutory provisions and a code of rules made in pursuance of the statutory provisions wholly unlike the rules of practice enforced in the courts.

No provisions are found either in the rules of the Patent Office, the court of appeals, or in any statute, whereby the right of filing a motion for rehearing is given. That being so, and an appeal from the decision of the Commissioner of Patents to the court of appeals being a part of the procedure fixed by statute for patent cases, it does not include motions or petitions for rehearing as in equity or in cases at law. The bill in equity, filed under section 4915, is not an appeal from the Commissioner of Patents, but is one of original equity jurisdiction. (*Apert* v. *Brownsville Plate Glass Co.*, 144 Fed. Rep., 115; *Butterworth* v. *Hoe*, 112 U. S., 50.)

Restating the facts: The case of *in re Mattullath Aeroplane Company* was an appeal from the decision of the Commissioner of Patents, granted by statute and governed by the rules fixed in accordance with the statute which failed to provide for a motion for rehearing. The present case, brought under section 4915, is by the terms of that section a bill in equity which may be filed whenever an application is refused either by the Commissioner of Patents or by the court of appeals. In this case the patent was finally refused on February 5, 1917, by the court of appeals, and this action not being

brought within one year from that time as required by section 4894, the motion to dismiss must be sustained.

Supreme Court of the District of Columbia.

MATTULLATH AEROPLANE COMPANY v. NEWTON, COMMISSIONER OF PATENTS.

Decided July 21, 1921.

1. PATENTS—REINSTATEMENT OF SUIT IN EQUITY UNDER SECTION 4915—PETITION FILED TOO LATE.

Where a suit in equity under Section 4915, Revised Statutes, was dismissed because brought more than a year after the date of the decision by the Court of Appeals of the District of Columbia, a petition to reopen the final decree dismissing such suit and reinstate the suit filed after the time when an appeal could have been taken and long after the end of the term of the court at which the final decree was entered, denied.

2. SAME—JUDICIAL NOTICE OF RECORDS OF PATENT OFFICE.

The Supreme Court of the District of Columbia may take judicial notice of the records of the U. S. Patent Office disclosing the date when the Commissioner of Patents, sued in his official capacity, ceased to be such official.

3. SAME—SUIT AGAINST U. S. OFFICIAL—ABATEMENT.

Where a suit in equity under section 4915, Revised Statutes, against the Commissioner of Patents was dismissed because brought more than a year after the date of the decision of the Court of Appeals of the District of Columbia, petition to reopen the final decree and reinstate the suit denied where it appeared that defendant had ceased to be an official of the Patent Office and his successor was not substituted within a year thereafter, as required by the act of Congress of February 9, 1899. (30 Stat. L., 822.)

Mr. W. H. Swenarton, *Mr. John W. Glennan*, and *Mr. R. Newton Donaldson* for Mattullath Aeroplane Company.

Mr. T. A. Hostetler for the Commissioner of Patents.

MEMORANDUM OPINION BY JUSTICE HOEHLING.

On February 23, 1918, plaintiff filed its bill of complaint against James T. Newton, then Commissioner of Patents of the United States; said bill being filed under section 4915 R. S. U. S. and the act of Congress of February 9, 1893; and in said bill decree was sought (*a*) adjudging Hugo Mattullath to have been the original, first and sole inventor of certain improvements in flying machines described in the bill; (*b*) adjudging that the Mattullath Aeroplane Co., plaintiff, was entitled to receive patent for said invention; and (*c*) that the said Commissioner of Patents be directed to grant and issue a patent to plaintiff company assignee, etc. On March 7, 1918, answer was filed by the defendant; but which answer was thereafter withdrawn and motion to dismiss the bill filed March 19, 1918, the ground of motion being that the suit was not brought within one year after the decision of the Court of Appeals of the District of Columbia refusing patent on the application involved in the suit.

On April 3, 1920, opinion of the court was filed sustaining the motion to dismiss and thereafter, April 27, 1920, final decree was entered in the cause dismissing the bill of complaint.

On May 27, 1921, petition was filed herein, wherein the following relief is sought:

Your petitioner therefore prays that the order hereinabove referred to be set aside, and that an order be entered permitting the prosecution of the suit on the bill heretofore filed, and ordering the defendant mentioned in said suit to answer the bill within the usual time allowed by law.

On July 14, 1921, there was filed in the cause copy of a notice addressed to the attorney for the defendant to the effect that the foregoing petition would be called to the attention of the court on Tuesday, July 19, 1921.

On said July 19, 1921, the petition was submitted by counsel for the plaintiff and defendant in the cause and typewritten memorandum briefs filed on behalf of each.

From the foregoing statement the fact appears that final decree in this cause was entered April 27, 1920; that no appeal was taken therefrom; that all times have now passed within which an appeal could be taken; and, furthermore, the term of court at which the final decree was entered has long since ended.

While the above sufficiently indicates that the final decree herein, and for the reasons above stated, is not now proper to be reopened, it may be remarked that the court is advised that the records of the U. S. Patent Office disclose, (and of which fact the court is entitled to take judicial notice,) that the defendant in the action, James T. Newton, herein sued in his official capacity as Commissioner of Patents, ceased to be such official on July 19, 1920; in which connection see act of Congress, of February 8, 1899, (30 Stat., 822,) and the case of *Le Crone* v. *McAdoo, Secretary of the Treasury*, (253 U. S., 217.)

The petition to reinstate is denied.

Adverse Decisions in Interference.

REISSUE PATENT NO. 14,787.

On June 28, 1921, a decision was rendered that Leigh J. Stephenson was not the first inventor of the subject-matter covered by claim 15 of his reissued Patent No. 14,787, subject, "Dynamo-electric machinery," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,231,123.

On June 30, 1921, a decision was rendered that Benjamin T. Brooks and Dillin F. Smith were not the first inventors of the subject-matter covered by claims 2, 3, 5, and 6 of their Patent No. 1,231,123, subject, "Production of chlorinated hydrocarbons," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,273,189.

On June 28, 1921, a decision was rendered that Fred Schoenwolf was not the first inventor of the subject-matter covered by claims 1, 5, 9, and 18 of his Patent No. 1,273,189, subject, "Telephone system with automatic ringing disconnect," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,287,649.

On June 29, 1921, a decision was rendered that Thomas Danquard was not the first inventor of the subject-matter covered by claims 1, 2, 3, 5, 6, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, and 18 of his Patent No. 1,287,649, subject, "Soft-tension graduating device for musical instruments," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,307,181.

On June 21, 1921, a decision was rendered that Lee A. Bixby was not the first inventor of the subject-matter covered by claim 6 of his Patent No. 1,307,181, subject, "Wheel and tire carriers," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,313,187.

On July 2, 1921, a decision was rendered that Albert W. Hull was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 8, and 9 of his Patent No. 1,313,187, subject, "Method of and means for amplifying electric variations," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,318,941.

On June 15, 1921, a decision was rendered that Samuel B. Williams, Jr., was not the first inventor of the subject-matter covered by claims 1, 2, 4, 5, 6, 10, 11, 17, and 18 of his Patent No. 1,318,941, subject, "Telephone-exchange system," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,332,612.

On June 18, 1921, a decision was rendered that Hjalmar Olivier Dahl was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, and 5 of his Patent No. 1,332,612, subject, "Draft-tube for turbines," and no appeal having been taken within the time allowed such decision has become final.

Changes in Classification.

(ORDER No. 2,682.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, July 27, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 20, Wooden Buildings, (Division XLVI,) establish the following subclass and definition:

Buildings—
1.01. Bank protective type.

1.01. BUILDINGS, BANK PROTECTIVE TYPE. Miscellaneous arrangements of rooms, doors, or windows and locking devices therefor not otherwise classified for preventing the robbing of a bank or customers.

Note.—These frequently involve locking devices for the entrance doors and windows or special chambers at the cashier's window for the entrance of persons receiving money to prevent the persons from leaving the chamber or bank against the will of the cashier or other official.

Note.—The following classes and subclasses include parts, subcombinations or special constructions adapted for analogous functions: 43, FISHING, TRAPPING, AND VERMIN-DESTROYING, subclass 59, Traps, Burglar; 70, LOCKS AND LATCHES; 177, ELECTRIC SIGNALING; 189, METALLIC BUILDING STRUCTURES, and 268, CLOSURE-OPERATORS, subclass 2, Counter-guard.

The patents contained in this subclass have been taken for the most part from class 43, Fishing, Trapping, and Vermin-Destroying, subclass 59, Traps, Burglar, and class 268, Closure-Operators, subclass 2, Counter-guard.

THOMAS E. ROBERTSON,
Commissioner.

Changes in Classification.

(ORDER No. 2,683.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, July 26, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 191, Electricity—Transmission to Vehicles, (Division XXXIV,) establish the following subclass and definition:

Conductors—
Trolley—
44.1. Splicers.

44.1. CONDUCTORS, TROLLEY, SPLICERS. Splicers or couplings for alined ends of electric trolley-wires.

Note.—See classes 173, ELECTRICITY—CONDUCTORS, subclass 263, Connectors, Wire splices, and the subclass indented thereunder, and 287, ROD JOINTS OR COUPLINGS, subclasses 78, Flexible rod or strand, Interlocked or lapped, Sleeved, and the subclass indented thereunder; 80, Flexible rod or strand, Offset or knotted end and sleeve; 107, Flanged rod and flanged coupling-nut, and 115, Sleeve, Binding detent.

The patents contained in this subclass have been taken for the most part from classes 173, Electricity—Conductors, subclass 263, Connectors, Wire-splices, 191, Electricity—Transmission to Vehicles, subclasses 33, Conductors, Trolley, and 44, Conductors, Trolley, Supports, Ears, Splices, and 287, Rod Joints or Couplings, subclasses 78, Flexible rod or strand, Interlocked or lapped, Sleeved, and the subclass indented thereunder, and 80, Flexible rod or strand, Offset or knotted end and sleeve.

THOMAS E. ROBERTSON,
Commissioner.

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED DURING THE MONTH OF JULY, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

A/S Myrens Verksted. (See Elling, Jens W. E., assignor.)
A. S. Gilman Printing Co., The. (See Ingersoll, Leland, assignor.)
Aalborg, Christian, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Trolley. No. 1,384,418; July 12; v. 288; p. 290.
Abbott, Adrian O., Jr., Detroit, Mich., assignor to Morgan & Wright. Tire-loosening machine. No. 1,384,419; July 12; v. 288; p. 290.
Abernathy, Benjamin H., assignor of one-third to W. S. Lee and one-third to R. Maines, Tulsa, Okla. Safety roller-bearing swivel-wrench. No. 1,383,274; July 5; v. 288; p. 3.
Abraham, Herbert, New York, N. Y., assignor to The Ruberoid Co. Shoe-filler. No. 1,385,808; July 26; v. 288; p. 733.
Abraham, Herbert, New York, N. Y., assignor to The Standard Paint Company. Shingle. No. 1,385,809; July 26; v. 288; p. 733.
Abric, Emile P. A., Paris, France. Railway signaling. No. 1,385,295; July 19; v. 288; p. 552.
Ackerman, Emil. (See Truitt, J. E., and Ackerman.)
Adair, Samuel E., New York, N. Y., assignor to International Radio Telegraph Company. Amplifier. No. 1,383,275; July 5; v. 288; p. 3.
Adams, Arthur A., Brookline, and F. A. Emery, Ashmont, assignor, by mesne assignments, to Boston Scale and Machine Co., Boston, Mass. Weighing-machine. No. 1,385,739; July 26; v. 288; p. 719.
Adams, Edgar W. (See Gilbert, O. C., and Adams.)
Addressograph Company. (See Hubbard, Henry E., assignor.)
Adell, John A. (See Starrett, L. S., and Adell.)
Afanador, Angel, Lincoln, Nebr. Valve-gear for motors. No. 1,385,104; July 19; v. 288; p. 514.
Agler, Henri G. E., New York, N. Y. Block-printing machine for fabrics. No. 1,384,934; July 19; v. 288; p. 477.
Ahlbell Battery Container Corporation. (See Ahlgren, John M., assignor.)
Ahlgren, John M., Indianapolis, Ind., assignor to Ahlbell Battery Container Corporation, Chicago, Ill. Storage-battery container. No. 1,384,816; July 19; v. 288; p. 453.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pump and pumping system. No. 1,385,061; July 19; v. 288; p. 504.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pumping system. No. 1,385,062; July 19; v. 288; p. 505.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pumping system. No. 1,385,063; July 19; v. 288; p. 505.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pumping system. No. 1,385,064; July 19; v. 288; p. 505.
Aikman, Burton S., assignor to National Brake & Electric Company, Milwaukee, Wis. Pneumatic pump. No. 1,385,065; July 19; v. 288; p. 506.
Ainsberry, Michael C. (See Welthans, John J., assignor.)
Air Reduction Company. (See Metsger, Floyd J., assignor.)
Ajax Foundry Company. (See Edwards, Harry T., assignor.)
Ajax Manufacturing Company, The. (See Blakeslee, John R., assignor.)
Akeley, Carl E., New York, N. Y. Mirror and backing the same. No. 1,384,294; July 12; v. 288; p. 264.
Akeley, Carl E., New York, N. Y. Backing mirrors. No. 1,384,420; July 12; v. 288; p. 290.
Akemann, Walther, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-direction apparatus for naval guns. No. 1,384,005; July 5; v. 288; p. 155.
Akerlund, Karl E., Chicago, Ill. Spring-motor. No. 1,385,351; July 26; v. 288; p. 639.
Aktiebolaget Karlstads Mekaniska Verkstads. (See Wagner, Rudolf E., assignor.)
Aktiebolaget Original-Odhner. (See Kuikka, Edward, assignor.)
Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie. (See Keller, Huldreich, assignor.)
Albright, Asa I., and F. L. Myatt, Monroe, La. Riveting-tool. No. 1,384,374; July 12; v. 288; p. 281.
Alexander, Herman L., Chicago, Ill. Cooking utensil. No. 1,384,035; July 12; v. 288; p. 211.
Alexander Potato Curing Company. (See Iles, E. J., and Hastings, assignors.) Reissue.
Alexander, Walter, New York, N. Y. Waterproofing. No. 1,385,864; July 26; v. 288; p. 742.
Alkire, Frederick W. (See Valentine, J. R., and Alkire.)
Allan, Thomas A. (See Tillett, C. H., and Allan.)
Allardyce, James A., Minneapolis, Minn. Aeroplane. No. 1,383,509; July 5; v. 288; p. 52.
Allen, Frank B., Ben Avon, and M. C. Sherman, Philadelphia, Pa., assignors to Baker-Dunbar-Allen Company, Cleveland, Ohio. Twin gate for hoppers. No. 1,381,175; July 12; v. 288; p. 239.
Allen, John W., South Omaha, Nebr. Preparing malted food products. No. 1,385,352; July 26; v. 288; p. 689.
Allen Typewriter Company. (See Uhlig, Richard W., assignor.)
Alley, Frank, West Hartford, assignor to The Arrow Electric Company, Hartford, Conn. Safety device for stamping-presses and the like. No. 1,384,654; July 12; v. 288; p. 340.
Allied Tractor Company, The. (See Nielsen, Lauritz F., assignor.)
Allis-Chalmers Manufacturing Company. (See Brown, Arthur J., assignor.)
Allis-Chalmers Manufacturing Company. (See McCoy, James P. A., assignor.)
Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
Allis-Chalmers Manufacturing Company. (See Sams, Fred V., assignor.)
Allis-Chalmers Manufacturing Company. (See Search, Charles E., assignor.)
Allis-Chalmers Manufacturing Company. (See Steen, Halfdan A., assignor.)
Allison, Isaiah, Downers Grove, and W. J. Leighty, Chicago, Ill. Oxyacetylene-blowpipe. No. 1,384,224; July 12; v. 288; p. 249.
Allmon, Joseph G., West Medford, Mass. Wrench. No. 1,384,655; July 12; v. 288; p. 340.
Alloy Parts Manufacturing Company, The. (See Naugle, Harry M., assignor.)
Almberg, Gustave, Chicago, Ill. Automatic weighing-machine. No. 1,383,279; July 5; v. 288; p. 4.
Almond, Henry, *et al.* (See Clark, John W., assignor.)
Alpern, Maxwell, assignor to American Engineering Company, Philadelphia, Pa. Stoker. No. 1,384,656; July 12; v. 288; p. 340.
Alschuler, Ernest, St. Louis, Mo., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Hand-lamp switch. No. 1,384,548; July 12; v. 288; p. 317.
Aluminum Castings Company, The. (See Bezzenberger, F. K., and Rich, assignors.)
Aluminum Castings Company, The. (See Norton, Allen B., assignor.)
Aluminum Company of America. (See Black, James D., assignor.)
Alvey Manufacturing Company. (See Hinchman, George N., assignor.)
Alvord, Clinton, Worcester, Mass. Color-printing mechanism. No. 1,383,589; July 5; v. 288; p. 68.
Ambrose, William T., Memphis, Tenn. Self-watering flower-pot. No. 1,383,368; July 5; v. 288; p. 23.
American Agricultural Chemical Co., The. (See Curran, John J., assignor.)
American Automatic Lock & Lift Company. (See Bishop, Homer G., assignor.)
American Bosch Magneto Corporation. (See Krats, Frans, assignor.)
American Bosch Magneto Corporation. (See Naul, James M., assignor.)
American Brake Shoe & Foundry Company, The. (See Thompson, James S., assignor.)
American Brass Company, The. (See Robbins, William A., assignor.)
American Can Company. (See Nowack, Charles H., assignor.)
American Can Company. (See Odquist, Victor, assignor.)

American Car Company. (See Schechter, Bernard, assignor.)
American Cellulose & Chemical Manufacturing Company. (See Bradley, Charles S., assignor.)
American Dan Bottle Seal Corporation. (See Nordstrom, Elof, assignor.)
American Dressler Tunnel Kilns. (See Dressler, Philip, assignor.)
American Dressler Tunnel Kilns. (See Dressler, Philip d'H., assignor.)
American Engineering Company. (See Alpern, Maxwell, assignor.)
American Gasaccumulator Company. (See Dalén, Gustaf, assignor.)
American Laundry Machinery Company, The. (See Waream, C. E., and Link, assignors.)
American Manganese Steel Company. (See Johnson, Frank E., assignor.)
American Meter Company. (See Kerstein, Ernest A., assignor.)
American Optical Company. (See Schumacher, E. L., and Boutell, assignors.)
American Optical Company. (See Tillyer, E. D., and Kerr, assignors.)
American Optical Company (See Tillyer, Edgar D., assignor.)
American Radiator Company. (See Landon, Archer A., assignor.)
American Shale Refining Company, The. (See Wingett, John M., assignor.)
American Steel and Wire Company, The. (See Smith, William J., assignor.)
American Steel Foundries. (See Floyd, George G., assignor.)
American Steel Foundries. (See Robertson, Alexander, assignor.)
American Stove Company. (See Fuldauer, Frederick I., assignor.)
American Telephone and Telegraph Company. (See Clark, Alva B., assignor.)
American Telephone and Telegraph Company. (See Demarest, C. A., Clark, and Crisson, assignors.)
American Telephone and Telegraph Company. (See Parker, R. D., and Hamilton, assignors.)
American Telephone and Telegraph Company. (See Toomey, J. F., and Demarest, assignors.)
American Tool & Machine Company. (See Goddard, G. N., and Smith, assignors.)
American Whaley Engine Company. (See Whaley, William B. S., assignor.)
American Well Works, The. (See Chapman, Matthew T., assignor.)
Ameshury Seat Manufacturing Company. (See Lunt, F. L., and Hatch, assignors.)
Amonsen, George H. (See Amonsen, Gilbert and G. H.)
Amonsen, Gilbert and G. H., Minneapolis, Minn. Clutch. No. 1,384,225; July 12; v. 288; p. 249.
Amsler-Morton Company. (See Geer, Paul L., assignor.)
Anchor Cap & Closure Corporation. (See Durkee, Chauncey H., assignor.)
Anchor Cap & Closure Corporation. (See Luhrmann, George W., assignor.)
Anchor Cap & Closure Corporation. (See White, William P., assignor.)
And. H. Klaer & Co., Ltd., of Norway. (See Strehlenert, Robert W., assignor.)
Ander, August, and F. T. McGuire, Seattle, Wash. Manufacturing tailors' chalk. No. 1,384,375; July 12; v. 288; p. 281.
Anderson, Albert S., assignor to G. Waldref, St. Paul, Minn. Hydraulic ram. No. 1,384,421; July 12; v. 288; p. 291.
Anderson, Andrew, and C. Brown, Rock Springs, Wyo. Demountable-rim contractor. No. 1,385,353; July 26; v. 288; p. 639.
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson, Carl E., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,385,296; July 19; v. 288; p. 552.
Anderson, Clarence A., Abilene, Kans. Electrical testing system and apparatus. No. 1,384,734; July 19; v. 288; p. 437.
Anderson, Gustaf, New York, N. Y. Device for launching aeroplanes from ships. No. 1,384,036; July 12; v. 288; p. 211.
Anderson, Henry R. W., *et al.*, executors. (See Thomas, H. S., Davies, and Thomas.)
Anderson, James A., Chickasha, Okla. Blowtorch. No. 1,383,276; July 5; v. 288; p. 3.
Anderson, James B., Shaler township, Allegheny county; J. B. Garner, Pittsburgh, and G. A. Shaner, Butler, Pa. Liquid-fuel burner. No. 1,384,985; July 19; v. 288; p. 489.
Anderson, John, St. Louis, Mo. Attaching device for shoe-heels. No. 1,383,277; July 5; v. 288; p. 3.
Anderson, Nils, Yutan, Nebr. Clutch-lock. No. 1,383,278; July 5; v. 288; p. 4.
Anderson, Nils, Yutan, Nebr. Top and fender for tractors. No. 1,384,735; July 19; v. 288; p. 437.
Anderson, William B., assignor to Haggard & Marcusson Co., Chicago, Ill. Spring-bed-bottom structure. No. 1,384,111; July 12; v. 288; p. 226.
Anderson, William B., Molson, Wash. Pressure-gage. No. 1,384,422; July 12; v. 288; p. 291.
Anderton, Herbert F. (See Bailey, Greenwood, assignor.)
Andregg, John E., Warren, Conn. Auto-signal. No. 1,384,112; July 12; v. 288; p. 226.
Angier, Edward H. (See Wheildon, William M., assignor.)
Angier, Edward H., Framingham, Mass. Package. No. 1,385,165; July 19; v. 288; p. 526.
Angle, Glenn D., Dayton, Ohio. Variable-throw crank-shaft. No. 1,385,768; July 26; v. 288; p. 725.
Angle, Lloyd A., assignor to Arts In Buttons, Inc., Rochester, N. Y. Button. No. 1,383,591; July 5; v. 288; p. 69.
Anglo-American Mill Company, The. (See Campbell, Thomas C., assignor.)
Angus, William, & Company (Scotland) Limited. (See Howe, Albert L., assignor.)
Angyal, Violet, Balham, London, England. Musical instrument operated by percussion. No. 1,385,898; July 26; v. 288; p. 750.
Anthes, Albert N., Fort Madison, Iowa. Shock-absorber. No. 1,383,592; July 5; v. 288; p. 69.
Anthon, John H., San Francisco, Calif. Shoe-lacing device. No. 1,385,238; July 19; v. 288; p. 540.
Anthony, George H., Sykesville, Pa. Tie and rail-fastener. No. 1,384,006; July 5; v. 288; p. 155.
Appel, Charles A., Jr., Washington, D. C. Check-protector. No. 1,384,584; July 12; v. 288; p. 324.
Arceneaux, Armond R. (See Davis, Monroe, assignor.)
Ardo, Joseph, and O. Phillips, Newhall, W. Va. Sunkenship indicating and safety device. No. 1,384,736; July 19; v. 288; p. 437.
Arey, Fred C., Oak Park, Ill. Expanded-metal-lath machine. No. 1,384,376; July 12; v. 288; p. 281.
Arlington Refrigerator Company. (See Rice, George H., assignor.)
Armagnat, Henri, and P. Frely, Paris, France. Electric reproducer for phonographs. No. 1,384,295; July 12; v. 288; p. 264.
Armstrong, Evan A. (See Harris, Archer H., assignor.)
Armstrong, Morgan K., Winnetka, assignor to Bestwall Manufacturing Company, Chicago, Ill. Plastic composition. No. 1,384,037; July 12; v. 288; p. 211.
Armstrong, Percy A. E., Loudonville, N. Y. Electrical heating element of alloy-steel. No. 1,385,740; July 26; v. 288; p. 719.
Armstrong, Robert B., assignor to himself and R. & W. Hawthorn Leslie & Company, Limited, Newcastle-upon-Tyne, England. Water-tube steam-boiler. No. 1,383,590; July 5; v. 288; p. 69.
Arnold, Albert, Detroit, Mich. Valve-governor. No. 1,384,113; July 12; v. 288; p. 226.
Arnold, Harold D., Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Detecting underwater vibrations. No. 1,383,690; July 5; v. 288; p. 90.
Arnold, Lincoln R., Providence, R. I. Runway. No. 1,384,114; July 12; v. 288; p. 227.
Arrow Electric Company, The. (See Alley, Frank, assignor.)
Arts In Buttons, Inc. (See Angle, Lloyd A., assignor.)
Asher, Allen P., Sandpoint, Idaho. Filing-cabinet. No. 1,384,880; July 19; v. 288; p. 467.
Ashworth, Fred, Beverly, assignor to United Shoe Machinery Corporation, Boston, Mass. Sewing-machine. No. 1,383,447; July 5; v. 288; p. 40.
Asplin, William E., and Hugo Wisander, West Park, Ohio; said Wisander assignor to said Asplin. Apparatus for making baskets. No. 1,383,280; July 5; v. 288; p. 4.
Asprooth, Axel Hj., Rockford, Ill., and A. M. Leonl, Dayton, Ohio, assignors, by mesne assignments, to Steinmets Electric Motor Car Corporation, Baltimore, Md. Change-speed gearing. No. 1,385,105; July 19; v. 288; p. 514.
Atlas Powder Company. (See Cook, R. M., and Grotta, assignors.)
Atlas Powder Company. (See Hill, R. L., and Strane, assignors.) (Reissue.)
Augenbraun, Peter F., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Automobile-tire lock. No. 1,384,549; July 12; v. 288; p. 317.
Ault, Eugene B., Calallen, Tex. Feeder for soft candy. No. 1,384,377; July 12; v. 288; p. 281.
Austin, Frederick C. (See Crawford, George N., assignor.)
Austral Window Company. (See Winslow, Frances A., assignor.) (Reissue.)
Auto Specialty Co. (See Palmer, Harry E., assignor.)
Automatic Electric Company. (See Wicks, John, assignor.)
Automobile Appliances Co. (See Van Sciver, Josiah H., assignor.)
Autosales Corporation. (See Grover, Albert D., assignor.)
Ayers, Albert M., Nutley, N. J. Bearing for rollers. No. 1,385,418; July 26; v. 288; p. 653.
Ayres, David, Paterson, N. J. Thread-guide. No. 1,385,066; July 19; v. 288; p. 506.
Ayres, Fredrick A., Sterling, Colo. Educational film. No. 1,385,354; July 26; v. 288; p. 639.
Babbitt, Jesse. (See Babbitt, Marvin H. and J.)
Babbitt, Marvin H. and J., Elkhart, Ind. Mouthpiece for wind musical instruments. No. 1,385,239; July 19; v. 288; p. 541.
Babcock & H. Company. (See Milner, Nugent, assignor.)

Babcon, Henry B., assignor to Pine Tree Milking Machine Company, Chicago, Ill. Milking-machine. No. 1,383,362; July 5; v. 288; p. 52.
Bacon, William M., assignor to Enameled Steel Sign Company, Chicago, Ill. Printing-machine. No. 1,385,654; July 26; v. 288; p. 702.
Baechtel, Warren M., *et al.* (See Myers, Jacob S., assignor.) (Reissue.)
Bagnall, James J., Days Bay, Wellington, New Zealand. Breakwater. No. 1,385,166; July 19; v. 288; p. 526.
Bagshaw, Charles M., assignor to The Gimson Shoe Machinery Co. Limited, Leicester, England. Pulling-over machine. No. 1,385,106; July 19; v. 288; p. 514.
Baier, Frank R., Chicago, Ill. Toy push-vehicle. No. 1,385,107; July 19; v. 288; p. 514.
Bailey, Greenwood, assignor to H. F. Anderton, Bradford, England. Apparatus for drying yarn or the like. No. 1,383,510; July 5; v. 288; p. 52.
Bailey, John J., Harpenden, England. Device for distributing seed and the like. No. 1,383,281; July 5; v. 288; p. 4.
Bailey, Miles E., Ottawa, Ontario, Canada. Ejector for cigarette-holders. No. 1,385,031; July 19; v. 288; p. 498.
Baillio, Gervais, Philadelphia, Pa. Electrolytic cell. No. 1,385,655; July 26; v. 288; p. 702.
Baird, Melville B., Kansas City, Mo., assignor of one-half to J. C. W. Bland, Tulsa, Okla. Vending-machine. No. 1,385,419; July 26; v. 288; p. 653.
Baker, Dickerson G. (See Clay, W. L., Beatty, and Baker.)
Baker-Dunbar-Allen Company. (See Allen, F. B., and Sherman, assignors.)
Baker, George C., Bayonne, N. J. Boiler construction. No. 1,384,057; July 12; v. 288; p. 340.
Baker, Hartley O., and W. P. Cook, assignors to The Baker Steam Motor Car and Manufacturing Co., Inc., Pueblo, Colo. Steam-condenser. No. 1,384,737; July 19; v. 288; p. 437.
Baker, Julian M., Tarboro, N. C. Tire-armor. No. 1,384,817; July 19; v. 288; p. 453.
Baker Manufacturing Company. (See Liddell, Michael V., assignor.)
Baker, Mark, assignor to Worcester Pressed Aluminum Company, Worcester, Mass. Chain-attaching device. No. 1,385,032; July 19; v. 288; p. 498.
Baker, Newton D., Secretary of War, trustee. (See Buckendale, Lawrence R., assignor.)
Baker, Paul S. (See Vance, O. E., and Baker.)
Baker-Perkins Manufacturing Corporation. (See Gase, Eugene, assignor.)
Baker Steam Motor Car and Manufacturing Co., The. (See Baker, H. O., and Cook, assignors.)
Baker, Thomas Y. (See Hughes, H. A., and Baker.)
Baker, Walter C., assignor to The Standard Parts Company, Cleveland, Ohio. Brake. No. 1,385,420; July 26; v. 288; p. 653.
Baldwin Locomotive Works. (See Wallace, Allen, assignor.)
Ball, Albert P. (See Horton, B. D., Ball, and Zenker.)
Ball, Albert P., Royal Oak, assignor to Square D Company, Detroit, Mich. Center stop and outside lock-off for electrical switch. No. 1,383,781; July 5; v. 288; p. 100.
Ball, Frank, Farmingdale, Long Island, N. Y., assignor to West Coast Kalsomine Company, West Berkeley, Calif. Manufacturing iron compounds. No. 1,385,769; July 26; v. 288; p. 725.
Ballew, Benjamin D. (See Reynolds, R. N., and Ballew.)
Balod, Edward, New York, N. Y. Combination-saw. No. 1,385,855; July 26; v. 288; p. 742.
Baltimore Oil Engine Company. (See Wygodsky, Leon, assignor.)
Bamford, Cyril J. (See Bamford, Joseph and C. J.)
Bamford, Joseph and C. J., Uttoxeter, England. Motor-tractor. No. 1,384,986; July 19; v. 288; p. 489.
Bancroft, George J., Denver, Colo. Splitting mica. No. 1,383,370; July 5; v. 288; p. 24.
Band, Stephen W. (See Hackett, William, assignor.)
Banks, Alexander. (See Bremberg, A., and Banks.)
Banks, Charles S., Manila, Philippine Islands. Pillow or like object. No. 1,385,355; July 26; v. 288; p. 640.
Baral, Katherine T., New York, N. Y. Hair-brush. No. 1,383,511; July 5; v. 288; p. 52.
Barany, Edmund R., New York, assignor to Twinomatic Machine and Tool Co. Inc., Brooklyn, N. Y. Automatic drilling-machine. No. 1,384,585; July 12; v. 288; p. 324.
Barbarou, Marius J. B., Paris, France. Foot-lever construction for motor-cars. No. 1,385,331; July 19; v. 288; p. 558.
Barbarou, Marius J. B., Paris, France. Air-compressor for motor-vehicle tires. No. 1,385,332; July 19; v. 288; p. 558.
Barber-Colman Company. (See Field, Millard F., assignor.)
Barber, Howard M., Stonington, Conn., assignor to C. B. Cottrell & Sons Company, New York, N. Y. Sheet-handling machine. No. 1,385,067; July 19; v. 288; p. 506.
Barker, James, Detroit, Mich. Index device. No. 1,384,882; July 19; v. 288; p. 467.
Barker, James, Kalamazoo, Mich. Temporary binder. No. 1,384,883; July 19; v. 288; p. 467.
Barker, John T., Lexington, Ky. Strainer-stretcher. No. 1,385,899; July 26; v. 288; p. 751.
Barker, Percy E., assignor to The Van Dorn Iron Works Co., Cleveland, Ohio. Tail-gate latch. No. 1,383,691; July 5; v. 288; p. 90.
Barker, William H. (See de Giers, Clarence A., assignor.)
Barletta, John, San Francisco, Calif. Tractor. No. 1,385,108; July 19; v. 288; p. 514.
Barling, Walter H., Hasbrouck Heights, N. J. Landing-gear. No. 1,385,770; July 26; v. 288; p. 725.
Barmier, Harry A., Chicago, Ill. Printing-ink and producing same. No. 1,383,512; July 5; v. 288; p. 52.
Barnard, Sidney N., *et al.* (See Newman, Arthur S., assignor.)
Barnett, Walter and J. Florendine, Rugby, England. Tip-vehicle. No. 1,383,513; July 5; v. 288; p. 52.
Barnhurst, Henry G. (See Barnhurst, Henry R.)
Barnhurst, Henry G., administrator. (See Barnhurst, Henry R.)
Barnhurst, Henry R., deceased, Catasauqua, by H. G. Barnhurst, administrator, H. R. Collins, Allentown, and H. G. Barnhurst, Catasauqua, assignors to Fuel Savings Company, Allentown, Pa. Apparatus for burning pulverized fuel in locomotives. No. 1,383,371; July 5; v. 288; p. 24.
Barrabee, Thomas R. (See Reach, Howard E., assignor.)
Barrows, Robert Y., Inc., *et al.* (See Barrows, Robert Y., assignor.)
Barrows, Robert Y., Rutherford, N. J., assignor of one-half to George H. Harman, Inc., and one-half to Robert Y. Barrows, Inc. Powder and rouge container. No. 1,385,856; July 26; v. 288; p. 742.
Bartholdy, Max, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Sighting device for ordnance. No. 1,384,007; July 5; v. 288; p. 155.
Bartlett, Charles A., and L. H. Eastman; said Eastman assignor of his right to H. Erickson, Campbell, Nebr. Jar-holder. No. 1,384,176; July 12; v. 288; p. 239.
Basore, Cleburne A., Auburn, Ala. Production of alcohol from gas containing ethylene. No. 1,385,515; July 26; v. 288; p. 673.
Bass Bros. (See Sylvester, Seymour, assignor.)
Bassett, Thomas Z., Judsonia, Ark. Combination eyeglass testing and display device. No. 1,384,226; July 12; v. 288; p. 250.
Bates, Frank C., assignor to J. B. Stader, Kansas City, Mo. Vending-machine. No. 1,384,586; July 12; v. 288; p. 325.
Bates, Harry, *et al.* (See Kidder, Wellington P., assignor.)
Bates, Harry, New York, N. Y. Educational typewriter-keyboard device. No. 1,385,356; July 26; v. 288; p. 640.
Bates, Harry, New York, N. Y. Memory-clock. No. 1,385,656; July 26; v. 288; p. 702.
Bathke, Fred W., *et al.* (See Scheve, Freta C., assignor.)
Bathurst, Charles, *et al.*, executors. (See Thomas, H. S., Davies, and Thomas.)
Bathurst, Thomas T., Kansas City, Mo. Spark-plug. No. 1,384,818; July 19; v. 288; p. 454.
Batty, Walter L., Baltimore, Md. Package and article carrier for motorcycle side cars. No. 1,385,771; July 26; v. 288; p. 725.
Baum, Shular, Utica, N. Y. Ball-bearing device. No. 1,383,372; July 5; v. 288; p. 24.
Baumblatt, Emil, Jr. Philadelphia, Pa. Cuff or sleeve for shirts. No. 1,383,514; July 5; v. 288; p. 53.
Baumgardner, Henry C., Ann Arbor, Mich. Spraying device. No. 1,384,296; July 12; v. 288; p. 264.
Baumgartl, Leroy, assignor to Ramspring Bumper Company, Chicago, Ill. Automobile-bumper. No. 1,383,515; July 5; v. 288; p. 53.
Baxter, Daniel L., Pawtucket, R. I. Package-wrapper. No. 1,384,115; July 12; v. 288; p. 227.
Baxter, Ernest H., Chicago, Ill. Fuse-plug. No. 1,384,028; July 5; v. 288; p. 159.
Baxter, Sidney. (See Reynolds, R. N., and Ballew, assignors.)
Bay State Optical Company. (See Clulee, Stephen J., assignor.)
Bayles, Lewis C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve. No. 1,383,373; July 5; v. 288; p. 24.
Beach, Fitch H., Charlotte, Mich. Combined bridge-floor. No. 1,385,421. July 26; v. 288; p. 653.
Beach, Howard L., Mount Lebanon, and W. J. Fendner, Pittsburgh, Pa. Dump-car. No. 1,384,819; July 19; v. 288; p. 454.
Beardsley, Calvin L., Rock Island, Ill. Bottle-capping machine. No. 1,385,298; July 19; v. 288; p. 552.
Beatty, John C. (See Clay, W. L., Beatty, and Baker.)
Beaty, Walter E. (See Blechschmidt, Arthur F., assignor.)
Beaumont-Thomas, Nora C., *et al.*, executors. (See Thomas, H. S., Davies, and Thomas.)
Beck, Eric, Aberdeen, Wash. Saw. No. 1,384,884; July 19; v. 288; p. 467.
Becker, Nathan, New York, N. Y. Drain-plug. No. 1,384,038; July 12; v. 288; p. 211.
Beckner, Noah J., assignor to Progressive Commodity Company, Seattle, Wash. Switch-stand lock. No. 1,384,505; July 12; v. 288; p. 307.
Beckwith, Louis I. (See Towle, James M., assignor.)
Beggs, George E., Princeton, N. J. Aeroplane bomb-sight. No. 1,383,969; July 5; v. 288; p. 147.

Belden, Edward H., assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,383,374; July 5; v. 288; p. 24.

Belhumeur, Alfred B., Woonsocket, R. I. Stop-motion for twisting-machines. No. 1,385,857; July 26; v. 288; p. 742.

Belk, Frank W., and A. E. Varner, Oxford, Miss. Thrust-take-up device. No. 1,384,227; July 12; v. 288; p. 250.

Bell, Louis. (See Marshall, N., and Bell.)

Bell, Louis, and N. Marshall, West Newton, Mass. Method of and apparatus for utilization of observable radiations. No. 1,385,657; July 26; v. 288; p. 702.

Bell, Rubin, New York, N. Y. Machine for making hat-lining tips. No. 1,385,240; July 19; v. 288; p. 541.

Bellairs, John W., Mishawaka, Ind. Toy vehicle. No. 1,384,738; July 19; v. 288; p. 437.

Ballamore, David H., New York, N. Y., and T. I. S. Boak, East Orange, N. J., assignors to Standard Ordnance Corporation, New York, N. Y. Making piston-pins. No. 1,385,357; July 26; v. 288; p. 640.

Bellamy, Harry T., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Manufacture of composition cores. No. 1,384,587; July 12; v. 288; p. 325.

Belluomini, John V., Jackson, Calif. Wrench. No. 1,384,588; July 12; v. 288; p. 325.

Belluscio, Luigi, Rochester, N. Y. Side car for motor cycles. No. 1,383,900; July 5; v. 288; p. 133.

Benard, Henri L. M. J., Paris, France. Occulting light. No. 1,384,658; July 12; v. 288; p. 341.

Benard, Henri L. M. J., Paris, France. Aerial signal-light. No. 1,384,659; July 12; v. 288; p. 341.

Bendl, Edward G., Bogota, N. J. Clutch. No. 1,384,820; July 19; v. 288; p. 454.

Benford, David M., North Pelham, N. Y. Pulley-face-frictioning composition. No. 1,383,692; July 5; v. 288; p. 90.

Benham, William B., Washington, D. C. Phonograph repeat mechanism. No. 1,384,034; July 5; v. 288; p. 161.

Benjamin, Dana H. (See Brockett, B. W., and Benjamin.)

Benjamin, George S., Detroit, Mich. Window construction. No. 1,384,935; July 19; v. 288; p. 477.

Bennett, George R., assignor to A. M. Hanauer, Pittsburgh, Pa. Loading-machine. No. 1,383,593; July 5; v. 288; p. 69.

Bennett, George R., Glen Osborne, assignor to A. M. Hanauer, Pittsburgh, Pa. Loading-machine. No. 1,383,594; July 5; v. 288; p. 69.

Bennett, Richard E. (See Mooney, J. J., and Bennett.)

Bennett, Stevens A., assignor to Wilson & Bennett Manufacturing Company, Chicago, Ill. Machine for fastening can-covers. No. 1,385,422; July 26; v. 288; p. 653.

Bentley, Anson J., Niles, Ohio. Reinforcing-band for metal containers. No. 1,385,602; July 26; v. 288; p. 691.

Bentley, George A., Marathon, Iowa. Seed-potato-cutting machine. No. 1,383,970; July 5; v. 288; p. 147.

Benton, Columbus A., Honston, Tex. Safety-razor. No. 1,383,516; July 5; v. 288; p. 53.

Berg, Charles, *et al.* (See Dunham, Milbourne K., assignor.)

Berg, Odvin A., Whitehall, Wis. Automatic wagon-brake. No. 1,385,772; July 26; v. 288; p. 725.

Berger Brothers Company. (See Salmonsen, Neil, assignor.)

Berger, Knute, assignor to Washington Iron Works, Seattle, Wash. Cableway-carriage. No. 1,383,782; July 5; v. 288; p. 109.

Berghaus, John H., Jr., Louisville, Ky. Safety device for elevators. No. 1,384,378; July 12; v. 288; p. 281.

Bergmann, Edvard G., Christiania, Norway. Damping device for compasses. No. 1,384,885; July 19; v. 288; p. 467.

Bernard, William A., assignor to The William Schollhorn Company, New Haven, Conn. Hand-tool. No. 1,385,516; July 26; v. 288; p. 673.

Bernaudin, Maurice, New York, N. Y. Automatic trip-motion. No. 1,385,241; July 19; v. 288; p. 541.

Bernay, Henri, assignor to F. W. Thurston, San Francisco, Calif. Drill. No. 1,384,297; July 12; v. 288; p. 264.

Bernhard, Hieronymus, St. Louis, Mo., assignor to G. E. Gannett, University City, and A. B. Lewis, St. Louis, Mo. Binder construction. No. 1,384,507; July 12; v. 288; p. 308.

Berry, George S., *et al.* (See Bowman, Levi M., assignor.)

Bertrand, Frederic E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-channeling machine. No. 1,383,448; July 5; v. 288; p. 40.

Best, Frank E., Seattle, Wash. Lock. No. 1,384,022; July 5; v. 288; p. 158.

Bestwall Manufacturing Company. (See Armstrong, Morgan K., assignor.)

Bethke, John P., assignor to Magnetic Manufacturing Company, Milwaukee, Wis. Magnetic pulley. No. 1,384,177; July 12; v. 288; p. 240.

Bethlehem Steel Company. (See Lachman, Laurence S., assignor.)

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Bettenga, Creno P., *et al.* (See Scheve, Frets C., assignor.)

Beszenberger, Fred K., and M. N. Rich, assignors to The Aluminum Castings Company, Cleveland, Ohio. Casting and treating castings and the like. No. 1,383,517; July 5; v. 288; p. 53.

Bharucha, Dosabhoy E., Bombay, India. Auxiliary shield for motor-vehicles. No. 1,383,282; July 5; v. 288; p. 4.

Bibbins, Royal E., New York, N. Y. Compass. No. 1,385,423; July 26; v. 288; p. 653.

Bieger, Louis K., Absaroke, Mont. End-gate. No. 1,384,228; July 12; v. 288; p. 250.

Bielouss, Elias, assignor to H. A. Gardner, Washington, D. C. Preparation of drying oils. No. 1,384,423; July 12; v. 288; p. 291.

Bielouss, Elias. (See Gardner, H. A., and Bielouss.)

Biette, Henry C., Pittsburgh, assignor of one-half to J. A. Pierce and one-sixth to J. Jamison, McKeesport, Pa. Cooking utensil. No. 1,383,971; July 5; v. 288; p. 147.

Biette, Henry C., Pittsburgh, assignor of two-thirds to J. A. Pierce, McKeesport, Pa. Cooking utensil. No. 1,383,972; July 5; v. 288; p. 148.

Bilger, George M., Tyrone, Pa. Display-box. No. 1,383,375; July 5; v. 288; p. 25.

Billingham, Milton C. J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,384,987; July 19; v. 288; p. 489.

Billings, Vina, Detroit, Mich. Invalid-handling apparatus. No. 1,385,424; July 26; v. 288; p. 654.

Billingsley, Rennie E., San Antonio, Tex. Rubber razor. No. 1,383,783; July 5; v. 288; p. 109.

Bilque, George A., Crafton, assignor of one-half to J. H. Gloninger, Pittsburgh, Pa. Building-brick and wall construction. No. 1,385,299; July 19; v. 288; p. 552.

Bilton Machine Tool Company, The. (See Hosgland, Frank O., assignor.)

Binder, Louis, Newark, N. J. Box. No. 1,385,068; July 19; v. 288; p. 506.

Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Machine for clenching roller-bearing cages. No. 1,383,376; July 5; v. 288; p. 25.

Binns, Fred A., Addison, Mich. Supporting device for false teeth. No. 1,385,812; July 26; v. 288; p. 732.

Birdsey, Charles R., Hinsdale, assignor to United States Gypsum Company, Chicago, Ill. Plaster-board. No. 1,384,298; July 12; v. 288; p. 265.

Birmingham Iron Foundry. (See Hansen, Svend, assignor.)

Biser, Charles E., Selma, Ala. Two-cycle upright gas-engine. No. 1,383,518; July 5; v. 288; p. 53.

Bishop, Homer G., Oakland, assignor to American Automatic Lock & Lift Company, San Francisco, Calif. Bed-mounting. No. 1,384,008; July 5; v. 288; p. 156.

Bivins, Chalfant E., Brooklyn, assignor to E. H. Wagner, New York, N. Y. Pyrotechnical device. No. 1,384,424; July 12; v. 288; p. 291.

Black, Euston E., Alligator Pond, Jamaica, British West Indies. Pen-extractor. No. 1,383,377; July 5; v. 288; p. 25.

Black, George E. (See Rogers, James E., assignor.)

Black, James D., Badin, N. C., assignor to Aluminum Company of America, Pittsburgh, Pa. Cell for ring-furnaces. No. 1,383,378; July 5; v. 288; p. 25.

Black, Johnny S., New York, N. Y. Airplane landing and launching mechanism. No. 1,383,595; July 5; v. 288; p. 70.

Black, Walter A., Rocky Ford, Colo. Tire-core. No. 1,384,508; July 12; v. 288; p. 308.

Blackburn, Alvah, Alum Bank, Pa. Antikicking device for cows. No. 1,383,901; July 5; v. 288; p. 133.

Blackburn, Alvah, Alum Bank, Pa. Cow-tail holder. No. 1,383,902; July 5; v. 288; p. 133.

Blackburn, Clarence W., South Greensburg, Pa. Toy. No. 1,385,517; July 26; v. 288; p. 673.

Blackinton, R., & Co. (See Cobb, Windsor, assignor.)

Blackmon, Shelby C., *et al.* (See Howell, Henry M., assignor.)

Blackmore, Charles C., Dayton, Ohio. Antirattling device for automobile-doors and the like. No. 1,384,506; July 12; v. 288; p. 308.

Blai, Martin, Chicago Ill. Portable building. No. 1,384,039; July 12; v. 288; p. 211.

Blain, John B., Rochester, N. Y. Grease-cup. No. 1,383,379; July 5; v. 288; p. 25.

Blair, Isaac J., Spokane, Wash. Combined force-feed and operating device. No. 1,384,116; July 12; v. 288; p. 227.

Blair, Rolandis A., Fort Wayne, Ind., assignor to The P. & M. Company, Chicago, Ill. Railway-rail anchor. No. 1,384,117; July 12; v. 288; p. 227.

Blake, Archie, New Orleans, La., assignor of one-third to Mrs. R. W. Chandler. Switch-operating device. No. 1,383,903; July 5; v. 288; p. 133.

Blake, William F., Toledo, Ohio. Whirling-bell toy. No. 1,383,283; July 5; v. 288; p. 5.

Blakeman, William N., Jr., Mount Vernon, N. Y. Paint vehicle for anhydrous pigments. No. 1,385,033; July 19; v. 288; p. 499.

Blakeman, William N., Jr., Mount Vernon, N. Y. Paint composition. No. 1,385,034; July 19; v. 288; p. 499.

Blakeman, William N., Jr., Mount Vernon, N. Y. Mineral oil. No. 1,385,035; July 19; v. 288; p. 499.

Blakeman, William N., Jr., Mount Vernon, N. Y. Mineral oil. No. 1,385,036; July 19; v. 288; p. 499.

Blakeman, William N., Jr., Mount Vernon, N. Y. Mineral oil. No. 1,385,037; July 19; v. 288; p. 499.

Blakeslee, John R., assignor to The Ajax Manufacturing Company, Cleveland, Ohio. Manufacture of nuts and similar articles. No. 1,384,118; July 12; v. 288; p. 227.

Bland, John C. W. (See Baird, Melville B., assignor.)

Blaney, James C., Cleveland, Ohio. Emergency-brake. No. 1,384,589; July 12; v. 288; p. 325.

Blasdar, Arthur F., Guilford, assignor, by mesne assignments, of forty-nine per cent. to W. Bohleber, New York, N. Y. Control for aerial machines. No. 1,385,658; July 26; v. 288; p. 702.

Blasiar, Arthur F., Guilford, assignor, by mesne assignments, of forty-nine per cent. to W. Bohleber, New York, N. Y. Control for aerial machines. No. 1,386,858; July 26; v. 288; p. 742.

Blaw-Knox Company. (See Knox, Luther L., assignor.)

Blechschmidt, Arthur F., Dayton, Ky., assignor of one half to W. E. Beaty. Combination-lock. No. 1,385,810 July 26; v. 288; p. 733.

Blacksmith, Arthur F., Dayton, Ky. Safe. No. 1,384,509; July 12; v. 288; p. 308.

Block, A. C., *et al.* (See Spencer, Elmer H., assignor.)

Bloomingdale, George T., Parkersburg, W. Va. Window-cleaning device. No. 1,385,603; July 26; v. 288; p. 691.

Bloomquist, Ernest V., Minneapolis, Minn. Cashier's ticket. No. 1,385,425; July 26; v. 288; p. 654.

Bloss, Richard R., and W. Schwemlein, assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Derrick-fitting. No. 1,385,659; July 26; v. 288; p. 703.

Blum, Joseph K., Greenburgh, N. Y. Disintegrator. No. 1,384,821; July 19; v. 288; p. 454.

Boak, Thomas I. S. (See Bellamore, D. H., and Boak.)

Bock Bearing Company, The. (See Bingham, Jeremiah, assignor.)

Bodenstein, Jacob, Herkimer, N. Y. Guide or support for drawers and the like. No. 1,385,811; July 26; v. 288; p. 733.

Bodman, John W., Western Springs, and T. M. Godfrey, Chicago, Ill., assignors to William Garrigue & Company, Inc., New York, N. Y. Deodorization of oils. No. 1,385,660; July 26; v. 288; p. 702.

Boggs, Samuel L., Ivanhoe, Va. Slime-pump. No. 1,383,380; July 5; v. 288; p. 26.

Bogia, Louis F., Philadelphia, Pa. Electric therapeutic apparatus. No. 1,384,716; July 12; v. 288; p. 352.

Bohleber, William. (See Blasiar, Arthur F., assignor.)

Bohleber, William, New York, N. Y. Spark-plug. No. 1,384,119; July 12; v. 288; p. 228.

Bohl, Jacques, Obach, Solothurn, assignor to Firm Scintilla, Solothurn, Switzerland. Rotor for magneto-electric machines. No. 1,385,038; July 19; v. 288; p. 499.

Bohrdt, Konrad, Buenos Aires, Argentina. Illuminating device for switches, &c. No. 1,385,300; July 19; v. 288; p. 552.

Boker, Vitus A., Minneapolis, Minn. Check-protector. No. 1,385,168; July 19; v. 288; p. 527.

Bolam, Thomas H., *et al.* (See Newman, Arthur S., assignor.)

Boland, Edward R., Arcadia, Calif. Parachute-harness. No. 1,385,773; July 26; v. 288; p. 726.

Bolich, Charles M., Allentown, Pa. Holder for license-plates. No. 1,384,220; July 12; v. 288; p. 250.

Bolles, William B., Milwaukee, Wis. Emergency-door-lock-operating mechanism. No. 1,383,973; July 5; v. 288; p. 148.

Bolles, William B., Milwaukee, Wis. Operating mechanism for exit-doors. No. 1,383,974; July 5; v. 288; p. 148.

Bollman, Charles M., Cincinnati, Ohio, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for mounting shoes on lasts. No. 1,383,519; July 5; v. 288; p. 53.

Bolls, William W., Washington, D. C. Dental instrument. No. 1,384,740; July 19; v. 288; p. 437.

Bolton, John B., Methuen, assignor to J. M. Van Heusen, Boston, Mass. Collar. No. 1,383,693; July 5; v. 288; p. 90.

Bolton, John B., Methuen, assignor to J. M. Van Heusen, Boston, Mass. Collar. No. 1,383,694; July 5; v. 288; p. 91.

Bombardie, Charles H. (See Inwood, R. G., and Bombardie.)

Bone, Benjamin F., *et al.* (See Dungan, John E., assignor.)

Bonenberger, Frank A., Louisville, Ky. Coin-controlled machine. No. 1,384,230; July 12; v. 288; p. 250.

Bönnelycke, Emil. (See Karr, Henry C., assignor.)

Bonza, Anthony, Felton, Del. Locking mechanism. No. 1,383,784; July 5; v. 288; p. 110.

Booth, John W., Trenton, Ontario, Canada. Tone-arm. No. 1,385,358; July 26; v. 288; p. 640.

Booth, William H., New York, N. Y. Shade-bracket. No. 1,383,975; July 5; v. 288; p. 148.

Borchert, Ralph W., St. Louis, Mo. Motor. No. 1,384,009; July 5; v. 288; p. 156.

Borden Company, The. (See Nonneman, Ira W., assignor.)

Border, William N., Dunlap, Mo. Shock-absorber. No. 1,384,040; July 12; v. 288; p. 211.

Borello, Jose. (See Parodi, A., and Borello.)

Borger, Henry E., assignor to Spilttdorf Electrical Company, Newark, N. J. Circuit-breaker. No. 1,384,510; July 12; v. 288; p. 308.

Boro, William A. (See Dragon, Jess, assignor.)

Borowski, Eugene. (See Drozda, Wicenty, assignor.)

Borst, Andrew J., Jr., Buffalo, N. Y. Semitrailer. No. 1,383,381; July 5; v. 288; p. 26.

Bosanko, William. (See Fredel, M. M., and Bosanko.)

Bost, William D., and H. M. Miller, assignors, by mesne assignments, to said Miller, Los Angeles, Calif. Peeling tomatoes. No. 1,384,379; July 12; v. 288; p. 281.

Boston Pressed Metal Company. (See Needham, William H., assignor.)

Boston Scale and Machine Co. (See Adams, A. A., and Emery, assignors.)

Bostrom, F. W. (See Westerlund, Charlie, assignor.)

Bosworth, George P., Central Falls, assignor to Hemphill Company, Pawtucket, R. I. Glove and making same. No. 1,385,963; July 26; v. 288; p. 763.

Botsford, Claude W., Los Angeles, Calif. Manufacturing gas for lighting or heating purposes from bituminous fuels. No. 1,385,167; July 19; v. 288; p. 527.

Bottone, Victor R., assignor of one-half to J. S. McAleer, Philadelphia, Pa. Lock No. 1,384,590; July 12; v. 288; p. 326.

Boucher, Joseph A., Montreal, Quebec, Canada. Receptacle. No. 1,383,596; July 5; v. 288; p. 70.

Bourdon, Charles, Paris, France. Gas-purifier. No. 1,384,380; July 12; v. 288; p. 282.

Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Turnbutton-fastener. No. 1,385,039; July 19; v. 288; p. 499.

Bousfield, Charlie J., Bay City, Mich. Device for removing puppet-valves. (Reissue.) No. 15,162; July 26; v. 288; p. 765.

Boutell, William H. (See Schumacher, E. L., and Boutell.)

Bouthillette, E. (See Godien, Ephraim, assignor.)

Bouton, Arthur A., Brooklyn, N. Y. Sewing-machine. No. 1,383,976; July 5; v. 288; p. 149.

Bower, Abram L., Boyertown, Pa. Automatic train-controlling device. No. 1,384,231; July 12; v. 288; p. 251.

Bowker, William R., Coronado, Calif. Torpedo for transporting and firing explosives. No. 1,385,109; July 19; v. 288; p. 515.

Bowman, James H., Honolulu, Hawaii. Toothbrush. No. 1,384,936; July 19; v. 288; p. 478.

Bowman, John H. A. D'O., assignor to Canadian File & Tool Works, Limited, Montreal, Quebec, Canada. Chemical process for reclaiming files, rasps, and the like. No. 1,384,550; July 12; v. 288; p. 317.

Bowman, Levi M., assignor of one-half to W. A. Smith, one-fourth to L. M. Butts, and one-fourth to G. S. Berry, Tulsa, Okla. Electric clipper. No. 1,383,977; July 5; v. 288; p. 149.

Box, John V., Los Angeles, Calif., assignor of one-third to C. R. Little, and one-third to Mrs. W. P. Martin, Whittier, Calif. Rotary well-drilling head. No. 1,383,785; July 5; v. 288; p. 110.

Boyce, Harrison H., Forest Hills, N. Y. Instrument. No. 1,385,661; July 26; v. 288; p. 703.

Boyd, Haroid A. (See Boyd, Thomas A. and H. A.)

Boyd, Thomas A. and H. A., Glasgow, Scotland. Twisting and doubling machine. No. 1,384,041; July 12; v. 288; p. 212.

Boylan, Michael, Omaha, Nebr. Vulcaniser. No. 1,385,518; July 26; v. 288; p. 674.

Braddy, Lewis P., San Francisco, Calif. Safety device. No. 1,383,786; July 5; v. 288; p. 110.

Bradford, Bernard M., and J. F. Le Gere, Hope Mills, N. C. Tethering pin or stake. No. 1,385,859; July 26; v. 288; p. 743.

Bradley, Charles S., assignor to American Cellulose & Chemical Manufacturing Company, Limited, New York, N. Y. Production of ether. No. 1,385,040; July 19; v. 288; p. 499.

Bradley, Eber R., Hood River, Oreg. Gage and guide for press-platens. No. 1,385,169; July 19; v. 288; p. 527.

Bradley, Harry L., assignor of one-half to L. Bradley Milwaukee, Wis. Lavatory. No. 1,385,604; July 26; v. 288; p. 691.

Bradley, James K., Cleveland Heights, assignor to The National System of Bakeries Co., Cleveland, Ohio. Baking-oven. No. 1,385,662; July 26; v. 288; p. 703.

Bradley, Lynde. (See Bradley, Harry L., assignor.)

Brady, Samuel H., Reno, Nev. Clamp for broken springs. No. 1,384,591; July 12; v. 288; p. 326.

Brambley, Frederick M., Brea, Calif. Fishing-tool. No. 1,384,988; July 19; v. 288; p. 489.

Brauchli, Ernst, St. Gallen, Switzerland. Book-holder. No. 1,385,663; July 26; v. 288; p. 703.

Braun, Charles J., and C. G. Janson, Oakland, Calif. Bunk. No. 1,385,900; July 26; v. 288; p. 751.

Bray, Herbert P., Pinner, England. Attaching tubes to headers, chambers, and the like. No. 1,384,989; July 19; v. 288; p. 489.

Brearley, Harry. (See Johnson, L., and Brearley.)

Bremberg, Axel, and A. Banks, Glasgow, Scotland. Recoil apparatus for ordnance. No. 1,385,301; July 19; v. 288; p. 552.

Brewster, Henry, New York, N. Y. License-plate holder. No. 1,383,978; July 5; v. 288; p. 149.

Briant Specialty Company. (See Sando, Briant, assignor.)

Bridge, John A., Larimer, assignor of one-eighth to L. A. Bridge and one-eighth to C. C. Ponitz, North Irwin, Pa. Rail-joint chair. No. 1,385,426; July 26; v. 288; p. 654.

Bridge, Lawrence A., *et al.* (See Bridge, John A., assignor.)

Briggs & Stratton Company. (See Soreng, Edgar M., assignor.)

Brigham, Edwin T., Kansas City, Mo., assignor to J. Bonasso, Los Angeles, Calif. Towel-rack. (Reissue.) No. 15,147; July 12; v. 288; p. 356.
Brindle, Richard G., assignor of one-half to W. W. Reece, Chicago, Ill. Testing device. No. 1,384,886; July 19; v. 288; p. 467.
Brindley, Oliver. (See Ross, B. G., and Brindley.)
Britten, Edwin F., Jr., Maplewood, N. J., assignor to Monroe Calculating Machine Company, New York, N. Y. Shock-absorber for calculating-machine carriages. No. 1,384,592; July 12; v. 288; p. 326.
Brockett, Bluford W., Cleveland, and D. H. Benjamin, Cleveland Heights, Ohio. Pressing-machine. No. 1,383,520; July 5; v. 288; p. 54.
Brocksmith, Adolph E., St. Louis, Mo. Radius-rod construction. No. 1,383,521; July 5; v. 288; p. 54.
Brockway, Carl P., assignor to The Willys-Overland Company, Toledo, Ohio. Steering-wheel-spider puller. No. 1,383,382; July 5; v. 288; p. 26.
Broga, Franklin D., Syracuse, N. Y. Carrier or trolley. No. 1,383,383; July 5; v. 288; p. 26.
Brogan, Michael F., Lawrence, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Last-pulling machine. No. 1,383,284; July 5; v. 288; p. 5.
Broluska, Amel B. and Harry A., assignors of one-third to C. Cailliau, Detroit, Mich. Vehicle-tire. No. 1,384,551; July 12; v. 288; p. 317.
Broluska, Harry A. (See Broluska, Amel B. and H. A.)
Brookins, Andrew J., Chicago, Ill. Automatic train-control apparatus. No. 1,384,552; July 12; v. 288; p. 317.
Brotsch, Frederick A., Jr., Brighton, N. Y. Pavement construction. No. 1,384,042; July 12; v. 288; p. 212.
Brower, Harry M., Freehold, N. J. Safety-lock for automobiles. No. 1,383,904; July 5; v. 288; p. 184.
Brown, Alexander T., Syracuse, N. Y. Motor agricultural machine. No. 1,385,041; July 19; v. 288; p. 499.
Brown, Arthur J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Flow-indicator. No. 1,385,975; July 26; v. 288; p. 765.
Brown & Bigelow. (See Kristofek, Frank J., assignor.)
Brown, Charles. (See Anderson, A., and Brown.)
Brown, Charles A., Lorain, Ohio, assignor of one-third to G. G. Earl and one-third to A. B. Wood, New Orleans, La. Filter. No. 1,383,384; July 5; v. 288; p. 26.
Brown, Garnet C., Dayton, assignor to The Willys-Overland Company, Toledo, Ohio. Transmission-brake-operating mechanism. No. 1,383,385; July 5; v. 288; p. 27.
Brown Hubard, Buford, Ga. Brace or support. No. 1,384,290; July 12; v. 288; p. 265.
Brown Instrument Co. (See Frey, Charles P., assignor.)
Brown, Leonard L., assignor of one-fourth to R. E. Robinson and one-fourth to G. I. Grasty, Clifton Forge, Va. Railway-tie. No. 1,385,302; July 19; v. 288; p. 553.
Brown, Louis G., *et al.* (See Johnston, Samuel, assignor.)
Brown, Max, Chicago, Ill. Collapsible sled. No. 1,384,553; July 12; v. 288; p. 318.
Brown, Robert W., New York, N. Y. Braiding-machine. No. 1,383,522; July 5; v. 288; p. 54
Brown, Vernon H., New York, N. Y. Loading device. No. 1,385,110; July 19; v. 288; p. 515.
Brubaker, Gordon M., Millersburg, Pa. Cylinder boring or reaming machine. No. 1,384,043; July 12; v. 288; p. 212.
Bruce, Charles, Tuolumne, Calif. Spark-arrester for steam-engines. No. 1,384,822; July 19; v. 288; p. 454.
Bruce, Thomas R., New Haven, Conn. Adjustable bracket for gas-meters. No. 1,383,597; July 5; v. 288; p. 70.
Bruhn, Friedrich W. G., Wilmersdorf, near Berlin, Germany. Speed-recorder for vehicles or locomotives. No. 1,385,342; July 19; v. 288; p. 560.
Bruhn, Max C. (See McGill, G. F., and Bruhn.)
Bruhn, Max C., and G. F. McGill, Chicago, Ill. Selective change-maker. No. 1,385,359; July 26; v. 288; p. 640.
Bruhn, Max C., and G. F. McGill, Chicago, Ill. Change-maker. No. 1,385,360; July 26; v. 288; p. 641.
Brumford, James L., Canajoharie, N. Y. Egg-beater. No. 1,384,593; July 12; v. 288; p. 326.
Brunelle, Hector E., Manchester, N. H. Tobacco-box. No. 1,384,937; July 19; v. 288; p. 478.
Bruner, Rudolph, assignor to J. P. Dales and M. J. Meyers, Chicago, Ill. Automobile-lock. No. 1,384,594; July 12; v. 288; p. 327.
Brunner, John H., Allentown, Mo. Feed-cutter. No. 1,384,425; July 12; v. 288; p. 291.
Bryan, George H. (See Bullock, E. W., and Bryan.)
Bryant Electric Company, The. (See Anderson, Carl E., assignor.)
Bryant Electric Company, The. (See Thomas, George B., assignor.)
Bryant, Elmer J., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Parallel for machine-tools and the like. No. 1,383,979; July 5; v. 288; p. 149.
Bryant Heater and Manufacturing Company, The. (See Fox, Otto, assignor.)
Bryson, Walter S., *et al.* (See Dungan, John E., assignor.)
Buchanan, Frank, Syracuse, N. Y. Mounting for headlights. No. 1,383,386; July 5; v. 288; p. 27.
Büchi, Alfred, Winterthur, Switzerland, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine-fuel-supply system. No. 1,384,512; July 12; v. 288; p. 309.
Bucolo, Alfred, Washington, D. C. Cushion-heel. No. 1,385,901; July 26; v. 288; p. 751.
Buck, Charles T., Waukegan, Ill. Ear device. No. 1,384,595; July 12; v. 288; p. 327.
Buckendale, Lawrence R., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Clutch. No. 1,384,511; July 12; v. 288; p. 309.
Buckingham, Harry, *et al.*, administrators. (See Mathews, Thomas.)
Buckingham, William F. (See May, Theodore W., assignor.)
Buckland, George G., San Francisco, Calif. Bicycle side car. No. 1,384,300; July 12; v. 288; p. 265.
Buckwalter, Leon G. (See Ruf, Herbert, assignor.)
Budd, Edward G., Manufacturing Company. (See Ledwinka, Joseph, assignor.)
Budd, Edward G., Manufacturing Company. (See Weaver, Clayton B., assignor.)
Buedingen, William L., Milwaukee, Wis. Music-roll container. No. 1,385,199; July 19; v. 288; p. 533.
Bulley, George W., St. Joseph, Mich. Bridge for inner tubes. No. 1,385,774; July 26; v. 288; p. 726.
Bullock, Edward W., and G. H. Bryan, assignors to Gleason Works, Rochester, N. Y. Gear-cutting machine. No. 1,385,200; July 19; v. 288; p. 533.
Bulman, Elvah O., Grand Rapids, Mich. Latch construction. No. 1,383,523; July 5; v. 288; p. 54.
Bunnell, Rose P., administratrix. (See Bunnell, W. O., and Gates.)
Bunnell, William O., deceased, and Q. A. Gates, Wilkes-Barre, Pa.; R. P. Bunnell, administratrix. Boot and shoe toe protector. No. 1,383,905; July 5; v. 288; p. 184.
Burge, Clarence B. (See Shanklin, C. E., and Burge.)
Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, Grain-shock loader. No. 1,385,939; July 26; v. 288; p. 758.
Burgess, Robert. (See Jones, Joseph H., assignor.)
Burghardt, Linus F., Westfield, N. Y. Labeling-machine. No. 1,385,303; July 19; v. 288; p. 553.
Burgner, Aaron A., assignor of one-half to H. R. Ford, Jacksonville, Fla. Spring-roller attachment for windows and doors. No. 1,384,596; July 12; v. 288; p. 327.
Burke, Charles R., Chicago, Ill. Safety-razor. No. 1,384,044; July 12; v. 288; p. 212.
Burke, Joseph H., Portland, Me. Saw-guard. No. 1,383,285; July 5; v. 288; p. 5.
Burnap, Charles E., deceased; S. Burnap, administratrix, assignor to The C. F. Pease Company, Chicago, Ill. Drawing-pen. No. 1,384,232; July 12; v. 288; p. 251.
Burnap, Sarah, administratrix. (See Burnap, Charles E.)
Burnsdahl, John E., Chicago, Ill. Tool-handle. No. 1,384,887; July 19; v. 288; p. 463.
Burns, Fred W., Johnstown, Pa. Hose-coupling. No. 1,384,045; July 12; v. 288; p. 212.
Burrowes, Sidney, Niagara Falls, Ontario, Canada. Current-regulator for electric furnaces. No. 1,385,974; July 26; v. 288; p. 765.
Burton, Carl O., Duluth, Minn. Automatic bridge control. No. 1,383,286; July 5; v. 288; p. 6.
Burton, Isaac F., Philadelphia, Pa., assignor to Victor Talking Machine Company. Multiple-spring motor. No. 1,384,426; July 12; v. 288; p. 291.
Burton Page Company, The. (See Shippert, Warren A., assignor.)
Busby, Hibbard S., assignor to Cheney Brothers, South Manchester, Conn. Apparatus for comparing, matching, and measuring shades and colors. No. 1,384,513; July 12; v. 288; p. 309.
Busch-Sulzer Bros.-Diesel Engine Company. (See Büchi, Alfred, assignor.)
Buschmeyer, Clarence R. (See Sherman, J. Q., and Buschmeyer.)
Bush, Albert A., and R. H. Freitag, assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Machine for engraving molds. No. 1,385,333; July 19; v. 288; p. 559.
Bushell, Ernest E. (See Conkling, M. E., and Bushell.)
Buskard, Samuel G., Hamilton, Ontario, Canada, assignor to The Manutil Corporation, Brooklyn, N. Y. Pressing-iron. No. 1,384,301; July 12; v. 288; p. 265.
Bussler, David. (See Bussler, Thomas O., assignor.)
Bussler, Thomas O., Wheelersburg, assignor of one-half to C. Nolche, Portsmouth, Ohio. Automobile-radiator cap. No. 1,385,304; July 19; v. 288; p. 553.
Bussler, Thomas O., assignor of one-half to D. Bussler, Wheelersburg, Ohio. Scrubbing-brush holder. No. 1,385,902; July 26; v. 288; p. 751.
Butler, Frank L., Chicago, Ill. Electrical fixture. No. 1,384,427; July 12; v. 288; p. 292.
Butterworth, H. W., & Sons Company. (See Rowley, William S., assignor.)
Butts, Elmer E., Arkansas City, Kans. Attachment for cooking vessels. No. 1,384,597; July 12; v. 288; p. 327.
Butts, Joseph P., Baxter Springs, Kans. Gas-burner. No. 1,384,598; July 12; v. 288; p. 328.
Butts, L. N., *et al.* (See Bowman, Levi M., assignor.)
Byman, Victor, Amity, Oreg. Fruit-gatherer. No. 1,385,111; July 19; v. 288; p. 515.
Cailliau, Cyril. (See Broluska, Amel B. and H. A., assignors.)
Calculli, Munsio D., New York, N. Y. Orthopedic metatarsal arch-support. No. 1,385,664; July 26; v. 288; p. 704.

Calhoon, Jesse W., Racine, Wis. Shipping-car ventilator. No. 1,383,787; July 5; v. 288; p. 110.
Calhoun, Leslie F., Los Angeles, Calif. Cutting-tool holder. No. 1,385,519; July 26; v. 288; p. 674.
Califf, Emery F., Detroit, Mich. Motor-vehicle lock. No. 1,384,233; July 12; v. 288; p. 251.
California Portland Cement Company. (See Olsen, G. J., and Waterfield, assignors.)
California Tool Works, The. (See Weichhart, Henry A., assignor.)
Calkins, Edwin S., Solvay, assignor to M. E. Davis, Canastota, N. Y. Brush and means for attaching same to hose or handle. No. 1,383,387; July 5; v. 288; p. 27.
Cameron, Everett S., West Haven, Conn. Oil-cooling system for explosive-engines. No. 1,384,234; July 12; v. 288; p. 251.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible gondola ballast-car. No. 1,383,287; July 5; v. 288; p. 6.
Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Dump-car and door-operating mechanism therefor. No. 1,383,288; July 5; v. 288; p. 6.
Campbell Baking Company, The. (See Patterson, Curtis J., assignor.)
Campbell, Charles E., Lynn, Mass. Locking-rack. No. 1,383,598; July 5; v. 288; p. 70.
Campbell, James R., Scottdale, Pa. Plant stimulant and fertilizer. No. 1,384,990; July 19; v. 288; p. 490.
Campbell, Thomas C., assignor to The Anglo-American Mill Company, Owensboro, Ky. Drive mechanism for mills. No. 1,384,741; July 19; v. 288; p. 438.
Campbell, William M., Hot Springs, Ark. Store furniture. No. 1,383,980; July 5; v. 288; p. 150.
Camward Engineering Co. (See Howard, John A., assignor.)
Canadian File & Tool Works. (See Bowman, John H. A. D., assignor.)
Canning, John E., Denver, Colo. Double-bar arch-band. No. 1,385,775; July 26; v. 288; p. 726.
Cannon, Felix Hamlet, N. C. Locomotive driving-box. No. 1,384,381. July 12; v. 288; p. 282.
Caplan, Nathen K., Detroit, Mich. Building structure. No. 1,384,235; July 12; v. 288; p. 251.
Carden, Moses W., Opelika, Ala. Chair-operated churn. No. 1,385,242; July 19; v. 288; p. 541.
Cardullo, Forrest E., assignor to The G. A. Gray Company, Cincinnati, Ohio. Driving-gear for metal-planers. No. 1,384,362; July 12; v. 288; p. 282.
Carlisle, Bert, Santa Ana, Calif. Leak-detector. No. 1,384,888; July 19; v. 288; p. 468.
Carlson, Carl A., New Britain, Conn. Universal vise. No. 1,383,524; July 5; v. 288; p. 55.
Carlson, Hilmer, assignor to Hilmer F. Carlson and Company, Chicago, Ill. Potato-picker. No. 1,384,823; July 19; v. 288; p. 455.
Carlson, Hilmer F., and Company. (See Carlson, Hilmer, assignor.)
Carothers, William C. (See Trammell, E. M., and Carothers.)
Carr, James W., *et al.* (See Waithman, Charles H., assignor.)
Carr, Selby C., Oklahoma, Okla. Automatic cut-off valve. No. 1,385,112; July 19; v. 288; p. 515.
Carrino, Andrew, Sterling, Ill. Catapult. No. 1,384,046; July 12; v. 288; p. 213.
Carroll, Elbert H., assignor to Morgan Construction Company, Worcester, Mass. Clutch-operating mechanism. No. 1,383,525; July 5; v. 288; p. 55.
Carroll, Vincent D., Chicago, Ill. Regulator. No. 1,384,554; July 12; v. 288; p. 318.
Carter, Clarence W., Minneapolis, Minn. Drying granular material. No. 1,384,047; July 12; v. 288; p. 213.
Carter, George M., assignor of one-half to R. H. Rosenberg, Findlay, Ohio. Internal expanding brake. No. 1,385,482; July 26; v. 288; p. 666.
Carter, George M., assignor of one-half to R. H. Rosenberg, Findlay, Ohio. Making vehicle-axles. No. 1,385,483; July 26; v. 288; p. 666.
Carter, Ronald S., Vancouver, British Columbia, Canada. Advertising device. No. 1,385,665; July 26; v. 288; p. 704.
Carter, Samuel W., Omaha, Nebr. Adjustable pitch and reversible propeller for airplanes and other lighter-than-air ships. No. 1,383,388; July 5; v. 288; p. 27.
Cartin, Morris B. (See Rohan, Joseph P., assignor.)
Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Water-elevating apparatus. No. 1,383,599; July 5; v. 288; p. 70.
Casale, Luigi, Terni, Italy. Generating from air and hydrogen either nitrogen and hydrogen mixtures or nitrogen. No. 1,384,428; July 12; v. 288; p. 292.
Casale Safety Device Company. (See Shaver, Archibald G., assignor.)
Case, William A., Plainfield, N. J., assignor of one-third to S. Gottschall and one-third to Eichengreen Sales Corporation, New York, N. Y. Compartment-box. No. 1,385,484; July 26; v. 288; p. 667.
Case, William R., Seattle, Wash. Mushroom anchor. No. 1,384,824; July 19; v. 288; p. 455.
Casey, Elizabeth A., Pittsburgh, Pa. Hot-air candy-cooker. No. 1,385,113; July 19; v. 288; p. 516.
Casgrain, Louis A., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Heel-breasting machine. No. 1,384,178; July 12; v. 288; p. 240.
Cather, Charles E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Double envelop. No. 1,385,114; July 19; v. 288; p. 516.
Catlin, William L., Chattanooga, Tenn. Lathe-tool holder. No. 1,383,981; July 5; v. 288; p. 150.
Caton, Robert H. (See Fowler, David M., assignor.)
Cavanah, Howard E., and M. G. Scholl, Santa Barbara, Calif. Block-making machine. No. 1,383,526; July 5; v. 288; p. 55.
Caylor, Jefferson, Indianapolis, assignor to Pioneer Box Company, Crawfordsville, Ind. Wirebound package. No. 1,385,813; July 26; v. 288; p. 734.
Cazenove, James O. H., New York, N. Y., assignor of one-third to R. B. Whitman, Bridgeport, Conn. Operating device for beaters. No. 1,385,605; July 26; v. 288; p. 691.
Central Commercial Company. (See Wardell, Henry R., assignor.)
Central Railway Signal Company. (See Dutcher, Frank, assignor.)
Central Scientific Company. (See Twardowsky, John, assignor.)
Cesaro, Attilio, Genoa, Italy. Push-button switch for electric current. No. 1,383,527; July 5; v. 288; p. 55.
Chaffee, Edward F., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Spring-balance for window-sashes. No. 1,383,982; July 5; v. 288; p. 150.
Chain Belt Co. (See Follinger, Herbert C., assignor.)
Chamberlain, Perry, Troy, Pa. Canning-machine. No. 1,384,599; July 12; v. 288; p. 328.
Chamberlain, Rowland L., Auburn, Calif. Ground-speed meter for aircraft. No. 1,385,776; July 26; v. 288; p. 726.
Chance, Albert B., Centralia, Mo. Anchor. No. 1,384,825; July 19; v. 288; p. 455.
Chandler, (Mrs.) Rebecca W. (See Blake, Archie, assignor.)
Chapdelaine, Norbert, assignor, by mesne assignments, to A. A. Magee, Montreal, Quebec, Canada. Toy. (Reissue.) No. 15,148; July 12; v. 288; p. 356.
Chapman Double Ball Bearing Company of Canada, The. (See Robinson, Harry W., assignor.)
Chapman, Matthew T., assignor to The American Well Works, Aurora, Ill. Pumping apparatus. No. 1,385,069; July 19; v. 288; p. 506.
Chappell, Walter H. (See Lankford, W. J., and Chappell.)
Chapple, Charles E., assignor to Doehler Die Casting Company, Brooklyn, N. Y. Casting apparatus. No. 1,385,201; July 19; v. 288; p. 533.
Chase Companies, The. (See Recker, Adolph C., assignor.)
Cheevers, Thomas P., Detroit, Mich. Arm-fitting. No. 1,384,826; July 19; v. 288; p. 455.
Chemical Foundation, The. (See Minck, Paul H., assignor.)
Cheney Brothers. (See Busby, Hibbard S., assignor.)
Cheney, Fred D., Gypsum, Kans. Storage-battery electrolyte. No. 1,385,305; July 19; v. 288; p. 553.
Chenot, William E., Belleville, Ill. Apparatus for making motor-fuels. No. 1,385,860; July 26; v. 288; p. 743.
Chicago-Cleveland Car Roofing Company. (See Russell, Thomas N., assignor.)
Chicago Malleable Castings Company. (See Osborn, Warren M., assignor.)
Chicago Pneumatic Tool Company. (See Hoffman, Leon F., assignor.)
Chicago Pneumatic Tool Company. (See Kimman, Henry J., assignor.)
Chile Exploration Company. (See Fink, Colin G., assignor.)
Chitwood, R. H. (See Wood, John, assignor.)
Chopin, Albéric L., Paris, France. Universal coal-cutting machine. No. 1,384,236; July 12; v. 288; p. 250.
Christmas, Adolph F., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Vaporizer for internal-combustion engines. No. 1,384,680; July 12; v. 288; p. 346.
Christensen, Jörgen A. F., Odense, Denmark. Device for joining concrete blocks disposed in a pillar or in series. No. 1,385,606; July 26; v. 288; p. 692.
Christoph, Edward A., Chicago, Ill. Lock. No. 1,384,179; July 12; v. 288; p. 240.
Christophel, Carl E., assignor to Dexter Folder Company, Pearl River, N. Y. Sheet-feeding machine. No. 1,385,666; July 26; v. 288; p. 704.
Christopher, George M. (See Spaulding, Franklin, assignor.)
Church, Coleman A. (See Sieben, George S., assignor.)
Cincinnati Frog & Switch Company, The. (See Parlington, Charles H., assignor.)
City National Bank, The. (See Hallwood, Henry S., assignor.)
Clanin, Ross N., Whiting, Ind. Door-fastening. No. 1,385,814; July 26; v. 288; p. 734.
Clark, Alva B. (See Demarest, C. S., Clark, and Crisson.)
Clark, Alva B., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Grid-circuits for electron-tubes. No. 1,385,777; July 26; v. 288; p. 726.
Clark Cutter, Inc., *et al.* (See Clark, John W., assignor.)
Clark, Emma E., Hammond, Ind. Lingerie-clip. No. 1,383,906; July 5; v. 288; p. 134.
Clark, Francisco, Durango, Mexico. Spring slide door-jamb or latch. No. 1,383,983; July 5; v. 288; p. 150.
Clark, Frank J., assignor to Clark Pneumatic Action Company, Milwaukee, Wis. Expression device for automatic players. No. 1,384,010; July 5; v. 288; p. 156.

Clark, John W., Alhambra, Calif., assignor of one-half to H. Almond, and one-half to Clark Cutter, Inc., Newark, N. J. Meat-cutting machine. No. 1,384,742; July 19; v. 288; p. 438.

Clark Pneumatic Action Company. (See Clark, Frank J., assignor.)

Clark, Walter C., Fort Worth, Tex. Fire-extinguisher for aeroplanes and the like. No. 1,383,788; July 5; v. 288; p. 110.

Clark, William G., Chicago, Ill. Adjustable air-separator. No. 1,383,984; July 5; v. 288; p. 151.

Clarke-Bruff, Charles, Coalport, England. Covered hollow ware. No. 1,384,302; July 12; v. 288; p. 268.

Clarke, John S., Boone, Iowa. Rotary cultivator. No. 1,383,528; July 5; v. 288; p. 55.

Clausen, Paul F., *et al.* (See Stoetzel, Joseph J., assignor.)

Clay, Wallace L., Bridesburg, Pa., J. C. Beatty, Washington, D. C., and D. G. Baker, Greenfield, Mass. Armor-piercing tracing-bullet. No. 1,384,011; July 5; v. 288; p. 156.

Clayton, James, Coventry, assignor to Courtaulds, Ltd., London, England. Spinning-box for artificial silk. No. 1,385,806; July 19; v. 288; p. 553.

Clement, Charles G., assignor to Highway Trailer Company, Edgerton, Wis. Steering and coupling connection for trailer-vehicles. No. 1,385,361; July 26; v. 288; p. 641.

Cliff Manufacturing Works. (See Frick, William, assignor.)

Cliff, Ray Y. (See Howell, Delta B., assignor.)

Clifford, William H., Ealing, London, England. Adjustable chuck. No. 1,384,237; July 12; v. 288; p. 252.

Clodfelter, Charles W., Fall River, Mass. Shifting stage. No. 1,384,180; July 12; v. 289; p. 240.

Close, James T., Newkirk, Okla. Bridge and culvert form. No. 1,384,514; July 12; v. 288; p. 309.

Clubee, Stephen J., Attleboro, Mass., assignor to Bay State Optical Company. Spectacle-frame. No. 1,384,503; July 12; v. 288; p. 268.

Coates, Frederick, Wyoming, assignor to Federal Products Company, Cincinnati, Ohio. Paste-applying apparatus. No. 1,384,048; July 12; v. 288; p. 218.

Coates, Frederick, Wyoming, assignor to Federal Products Company, Cincinnati, Ohio. Machine for securing end closures in vessels. No. 1,384,049; July 12; v. 288; p. 218.

Cobb, Windsor, San Francisco, Calif., assignor to R. Blackington & Co., North Attleboro, Mass. Combined cigarette holder and extinguisher. No. 1,385,964; July 26; v. 288; p. 763.

Cochran, Arthur J., Columbus, Ind. Dauber, polisher, &c. No. 1,384,827; July 19; v. 288; p. 456.

Cochran, Marshal L., Grand Rapids, Mich. Bench-stool. No. 1,385,903; July 26; v. 288; p. 751.

Cody, James M. (See Cody, Margret M., assignor.)

Cody, Margret M., assignor of one-half to J. M. Cody, Seattle, Wash. Can opening and protecting device. No. 1,383,600; July 5; v. 288; p. 71.

Cobagen, William, *et al.* (See Trembley, Lou J., assignor.)

Cohen, Jacob, Philadelphia, Pa. Sewing-machine attachment. No. 1,385,904; July 26; v. 288; p. 751.

Coll, Lucy S., Nevada, Mo. Mattress-holder for invalid-beds. No. 1,384,600; July 12; v. 288; p. 328.

Coin Device and Signal Co. (See Drew, Harry A., assignor.)

Cole, Don, assignor to Stromberg Motor Devices Company, Chicago, Ill. Carbureter. No. 1,384,429; July 12; v. 288; p. 292.

Coleman, James M., and K. F. Nystrom, Montreal, Quebec, Canada. Clasp-brake. No. 1,385,607; July 26; v. 288; p. 692.

Coles, Harold D. (See Monlon, Basil, assignor.)

Coles, Walter H., Troy, Ohio. Overhead irrigating device. No. 1,383,449; July 5; v. 288; p. 40.

Collier, Arthur T., St. Albans, England. Diaphragms for gramophones, phonographs, telephones, and the like. No. 1,385,243; July 19; v. 288; p. 541.

Collins, Harry R. (See Barnhurst, Henry R.)

Collins, James H., Harrisburg, Pa. Vehicle. No. 1,385,815; July 26; v. 288; p. 734.

Colour Photography Limited. (See Friese-Greene, William, assignor.)

Comboni, Giuseppe, Milan, Italy. Electric switch. No. 1,383,695; July 5; v. 288; p. 91.

Combs, Alfonzo F., Wilkesboro, N. C. Meat-tendering machine. No. 1,384,991; July 19; v. 288; p. 490.

Comer, L. C., *et al.* (See Stevens, Ransom H., assignor.)

Commonwealth Steel Company. (See Westlake, Charles T., assignor.)

Comrie, Guy, Los Angeles, Calif. Wind-deflector. No. 1,385,485; July 26; v. 288; p. 667.

Comrie, James Y. McL., Runciman, Auckland, New Zealand. Harrow. No. 1,385,861; July 26; v. 288; p. 743.

Conder, Charles M., & G. T. Vivian, Camborne, England. Roller-mill for crushing material such as stone or ores. No. 1,383,529; July 5; v. 288; p. 56.

Conder, Charles M., and G. T. Vivian, Camborne, England. Vibratory-jaw crusher. No. 1,385,244; July 19; v. 288; p. 542.

Condon, Ernest L., Medway, assignor to United Soda Fountain Company, Boston, Mass. Pump. No. 1,385,307; July 19; v. 288; p. 553.

Cone, Joseph D., Montclair, assignor to Ingersoll-Rand Company, Jersey City, N. J. Centrifugal pump. No. 1,385,115; July 19; v. 288; p. 516.

Conkling, Marion E. and E. E. Rushell, Lawton, Okla. Dispensing-machine. No. 1,384,687; July 12; v. 288; p. 347.

Conley, George B., Cleveland, Ohio. Baby-jumper. No. 1,384,181; July 12; v. 288; p. 240.

Conley, Lafayette H., Sault Ste. Marie, Mich. Heelless sock. No. 1,384,828; July 19; v. 288; p. 456.

Connecticut Lock Company, The. (See Lauki, Antony, assignor.)

Conners, Edward R., assignor to The Precision Truing Machine & Tool Company, Cincinnati, Ohio. Grinding-wheel-truing tool. No. 1,383,601; July 5; v. 288; p. 71.

Conomos, Van, Blairsville, Pa., Telephone-mouthpiece. No. 1,385,862; July 26; v. 288; p. 743.

Conrad, George E., Stillwater, Minn. Steering mechanism for trailers. No. 1,385,667; July 26; v. 288; p. 704.

Conradson, Conrad M. and P., Madison, Wis. Paper towel. No. 1,384,515; July 12; v. 288; p. 310.

Conradson, Prentice. (See Conradson, Conrad M. and P.)

Consolidated Car-Heating Company. (See Hynes, Lee P., assignor.)

Consolidated Wafer Company. (See Halsey, Christ, assignor.)

Conti, Oreste, Viareggio, Italy. Room-calling system for hotels. No. 1,384,182; July 12; v. 288; p. 241.

Continental Scale Works. (See Weber, Mathias J., assignor.)

Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,383,789; July 5; v. 288; p. 111.

Conwell, Samuel H., and C. W. Court, Chicago, Ill., assignors to W. P. Murphy, New York, N. Y. Railway-car of the gondola type. No. 1,384,183; July 12; v. 288; p. 241.

Cook, Frank C., Washington, D. C. Spray. No. 1,384,304; July 12; v. 288; p. 266.

Cook, Russell M., and B. Grotta, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Composition for detonators. No. 1,385,245; July 19; v. 288; p. 542.

Cook, William A., Brooklyn, N. Y. Reed-organ. No. 1,383,289; July 5; v. 288; p. 6.

Cook, William P. (See Baker, H. O., and Cook.)

Cooke, T., & Sons Limited. (See Harman, Robert, assignor.)

Coombs, Edgar I., assignor of one-half to W. E. Easterbrooks, Providence, R. I. Lacing. No. 1,385,862; July 26; v. 288; p. 641.

Cooper, Howard. (See van Vleck, P., and Cooper.)

Copelin, Isaiah W., Toledo, Ohio. Running-board carriers. No. 1,385,308; July 19; v. 288; p. 554.

Corer, Charles, Forrest City, Ark. Adjustable bedstead. No. 1,383,997; July 5; v. 288; p. 134.

Corneloup, Joseph, Paris, France. Automatic excavating-bucket. No. 1,385,520; July 26; v. 288; p. 674.

Corning, Henry W., Cleveland, Ohio. Electric-motor-supporting attachment for sewing-machines. No. 1,383,602; July 5; v. 288; p. 71.

Corrall, Herbert Helensburgh, and B. A. Stevens, Clydebank, Scotland, assignors to The Singer Manufacturing Company, Elizabeth, N. J. Shuttle-driving mechanism for sewing-machines. No. 1,385,863; July 26; v. 288; p. 641.

Corrigan, Hugh, Duncan, Okla. Back-up or go-around tong. No. 1,384,688; July 12; v. 288; p. 347.

Corrigan, Michael J., Calipatria, Calif. Cantaliver-plow. No. 1,384,992; July 19; v. 288; p. 490.

Coryell, John, Coryell, Mich. Multiple-screw jack. No. 1,384,430; July 12; v. 288; p. 292.

Costello, William, Jr., Philadelphia, Pa. Nozzle for cake-coating machines. No. 1,384,601; July 12; v. 288; p. 328.

Costmeter Company. (See Quigley, John T., assignor.)

Cotton, Walter H., Chicago, Ill. Stock-tank. No. 1,383,530; July 5; v. 288; p. 56.

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Couch, Joseph G., Bessemer, Mich. Mop clamp and head. No. 1,385,427; July 26; v. 288; p. 654.

Coughran, Samuel J., Buena Park, Calif. Tractor-seat. No. 1,385,521; July 26; v. 288; p. 674.

Coulter, Lemuel P., Tacoma, Wash. Burner. No. 1,385,906; July 26; v. 288; p. 752.

Court, Clarence W. (See Conwell, S. H., and Court.)

Courtaulds, Ltd. (See Clayton, James, assignor.)

Couturier, Ernest A., Laporte, Ind. Slide-trombone. No. 1,385,202; July 19; v. 288; p. 533.

Covert, Adolphus F. (See Crutchfield, E. H., and Covert.)

Cox, Charles F., Bridgeton, N. J. Machine for making glass bottles. No. 1,385,428; July 26; v. 288; p. 654.

Coxe Traveling Grate Co. (See Lloyd, William, assignor.)

Coy, Donald W. (See Williams, T. F., Coy, and Pruden.)

Craft, Chauncey, Rochester, N. Y. Attachment for containers. No. 1,384,120; July 12; v. 288; p. 228.

Craig, Alvin M., New Haven, Conn. Shock-absorber. No. 1,384,238; July 12; v. 288; p. 252.

Craig, Edward, St. Joseph, Mich. Printing-press and blanking-machine. No. 1,383,531; July 5; v. 288; p. 56.

Craig, Edward, St. Joseph, Mich. Box-blank machine. No. 1,384,239; July 12; v. 288; p. 252.

Craig, Harold B., Springfield, Mass. Teaspoon and tablespoon leveler. No. 1,383,603; July 5; v. 288; p. 71.

Cramer, Herman, Pine Lawn, Mo. Sausage-linking machine. No. 1,384,050; July 12; v. 288; p. 214.

Cramer, Hiram C., Lexington, Ky. Dancing toy. No. 1,383,532; July 5; v. 288; p. 56.

Cramer, William. (See Jacobs, I. M., and Cramer.)

Crampton, Basil R. (See Winters, A. F., and Crampton.)

Crane, Calvin D., Dayton, Ohio. Liquid cooling and aerating device. No. 1,384,938; July 19; v. 288; p. 478.

Crane, George A., Chicago, Ill. Auxiliary tire for vehicle-wheels. No. 1,384,240; July 12; v. 288; p. 268.

Crawford, Edgar J., assignor to J. B. Jordan, Seattle, Wash. Speed control for motor-vehicles. No. 1,384,730; July 12; v. 288; p. 355.

Crawford, George N., assignor to F. C. Austin, Chicago, Ill. Lifting apparatus. No. 1,384,051; July 12; v. 288; p. 214.

Crawford, McGregor and Canby Company, The. (See Mattern, George W., assignor.)

Creasey, Percy J., Cabin Creek, W. Va. Injector. No. 1,383,965; July 5; v. 288; p. 151.

Cresse, Everett, Omaha, Nebr. Window-frame. No. 1,384,516; July 12; v. 288; p. 310.

Cressey, John A., Dallas, Tex. Producing confections. No. 1,383,290; July 5; v. 288; p. 7.

Crews, Henry E., Totowa borough, N. J. Overbox-cover. No. 1,384,517; July 12; v. 288; p. 310.

Crisson, George. (See Demarest, C. S., Clark, and Crisson.)

Criswell, Richard L., Lakewood, Ohio. Valve-lifter. No. 1,348,518; July 12; v. 288; p. 310.

Crocker, Ralph W., Chicago, Ill. Food product and preparing same. No. 1,385,246; July 19; v. 288; p. 542.

Crockett, Charles H. (See Crockett, Charles W. and C. H.)

Crockett, Charles W. and C. H., Troy, N. Y. Searchlight-reflector. No. 1,385,429; July 26; v. 288; p. 655.

Crook, Charles M., Chicago, Ill. Automatic time-indicating and signaling device. No. 1,383,533; July 5; v. 288; p. 56.

Crook, Charles M., Chicago, Ill., and J. R. Gammeter, Akron, Ohio, assignors to Stromberg Electric Company, Chicago, Ill. Automatic time-indicating and signaling instrument. No. 1,383,534; July 5; v. 288; p. 57.

Crook, Lord & Lawton, *et al.* (See Spencer, Elmer H., assignor.)

Crooks, James W., Pelham, N. Y. Dish-washing machine. No. 1,385,268; July 19; v. 288; p. 534.

Crosetti, Gerónimo, Buenos Aires, Argentina. Lamp. No. 1,385,430; July 26; v. 288; p. 655.

Croswhite, Estel L., Kansas City, Mo. Wire-reel. No. 1,385,522; July 26; v. 288; p. 674.

Crotto, Frank E., assignor to R. T. Meador, trustee, Dallas, Tex. Well-washer. No. 1,384,305; July 12; v. 288; p. 266.

Crowell, W. R., *et al.* (See Stevens, Ransom H., assignor.)

Crowell, William de F., St. Louis, Mo. Windshield for vehicles and conveyances. No. 1,385,204; July 19; v. 288; p. 534.

Crowell, Windom H., Detroit, Mich. Crochet cotton or wool holding device. No. 1,384,602; July 12; v. 288; p. 328.

Croset, François, Condrieu, France. Sewing-machine. No. 1,383,604; July 5; v. 288; p. 71.

Crozier, Alfred O., New York, N. Y. Method and machine for making cementitious products. No. 1,385,863; July 26; v. 288; p. 744.

Crozier, Alfred O., New York, N. Y. Machine and making cementitious products. No. 1,385,864; July 26; v. 288; p. 744.

Cru Patents Corporation. (See Wenderhold, William, assignor.)

Crutchfield, Edward H., and A. F. Covert, Detroit, Mich. Bearing. No. 1,385,906; July 26; v. 288; p. 752.

Culbertson, Moses, Kelfield, Saskatchewan, Canada. Train stop-signal. No. 1,383,908; July 5; v. 288; p. 134.

Cullinan, Thomas F., Providence, R. I. Stake-holding device. No. 1,383,986; July 5; v. 288; p. 151.

Culter & Proctor Stove Co. (See Sass, Fred J., assignor.)

Cummings, Howard B. (See Gausewitz, W. H., and Cumminga.)

Cunningham, Cleveland, Pittsburg, Kans. Plowing-tractor. No. 1,385,668; July 26; v. 288; p. 704.

Cunningham, Earl K., *et al.* (See Franklin, Clarence E., assignor.)

Cunningham, Frank L., Calgary, Alberta, Canada. Mop. No. 1,384,555; July 12; v. 288; p. 318.

Curly, John E., *et al.* (See Trova, Oswald, assignor.)

Curran, John J., West Haven, assignor to The American Agricultural Chemical Co., New Haven, Conn. Bag-handling apparatus. No. 1,383,790; July 5; v. 288; p. 111.

Currie, Neil. (See Perry, C., Jr., and Currie.)

Curry, George A. (See Rasmussen, John P., assignor.)

Curtis, Arthur R. (See Monto, J., and Curtis.)

Curtiss, Charles E., Clinton, Wis. Friction-driven automobile power-jack. No. 1,383,450; July 5; v. 288; p. 40.

Cusack, Thomas, assignor to The Thos. Cusack Company, Chicago, Ill. Headplate for signboards. No. 1,384,743; July 19; v. 288; p. 438.

Cusack, Thos., Co., The. (See Cusack, Thomas, assignor.)

Cutler-Hammer Mfg. Co., The. (See Simon, Arthur, assignor.)

Cutler, William C., North Glendale, Calif. Automatic information device. No. 1,384,306; July 12; v. 288; p. 266.

Cutler, William C., North Glendale, Calif. Information storing and displaying device. No. 1,385,116; July 19; v. 288; p. 516.

Cyclemotor Corporation. (See Madden, Bert L., assignor.)

Czerwinski, Joseph, Chicago, Ill. Belt-buckle. No. 1,385,865; July 26; v. 288; p. 744.

Dahlberg, B. G. (See Shaw, John K., assignor.)

Dakin, Herbert E., Limited. (See Dakin, Herbert E., assignor.)

Dakin, Herbert Ernest, assignor to H. E. Dakin, Limited, London, England. Permutation-lock for automobiles. No. 1,385,343; July 19; v. 288; p. 561.

Dalboni, Carlo. (See Glisconi, E., and von Beck, assignors.)

Dales, John P., *et al.* (See Bruner, Rudolph, assignor.)

Dalén, Gustaf, Lidingön, Stockholm, Sweden, assignor to American Gasaccumulator Company, Elizabeth, N. J. Rotating gas-lighting apparatus. No. 1,385,816; July 26; v. 288; p. 734.

Dalrymple, Burton W., Glasco, Kans. Conveyer-slat splice. No. 1,383,451; July 5; v. 288; p. 40.

Daniel, William A., Earl, Ark. Paste-dispensing device. No. 1,384,307; July 12; v. 288; p. 266.

Darling, Samuel M., Washington, D. C. Process of and apparatus for distilling ocotillo and the like. No. 1,384,939; July 19; v. 288; p. 478.

Darrah, William A., Swissvale, Pa. Incandescent lamp. No. 1,385,608; July 26; v. 288; p. 692.

Daugherty, Harry L., Carson City, Nev. Bit. No. 1,384,242; July 12; v. 288; p. 253.

Davenport, Edgar R., Granite City, Ill. Torpedo-placing device. No. 1,383,535; July 5; v. 288; p. 57.

Davidson, Gordon S., Sydney, Australia. Bite-taking device. No. 1,385,070; July 19; v. 288; p. 507.

Davidson, Samuel C., Belfast, Ireland. Peat fuel. No. 1,384,012; July 5; v. 288, p. 157.

Davies, Nelson E., Redwood City, Calif. Internal-combustion engine. No. 1,383,536; July 5; v. 288; p. 57.

Davies, William. (See Stafford, Wilfred, assignor.)

Davies, William R. (See Thomas, H. S., Davies, and Thomas.)

Davison, Joseph T., Battle Creek, Mich. Washing-machine. No. 1,384,241; July 12; v. 288; p. 253.

Davis, Alfred U., assignor to Davis Instrument Manufacturing Company, Baltimore, Md. Magneto. No. 1,383,605; July 5; v. 288; p. 72.

Davis, Arthur N., New York, N. Y. Artificial tooth. No. 1,383,696; July 5; v. 288; p. 91.

Davis, Augustine, Jr., Covington, Ky. Tank closure and vent. No. 1,383,389; July 5; v. 288; p. 27.

Davis, Charles C., Contoocook, N. H., assignor to Kingsbury & Davis Machine Company, South Coventry, Conn. Paper-box machine. No. 1,383,697; July 5; v. 288; p. 91.

Davis, E. Milton. (See Calkins, Edwin S., assignor.)

Davis Instrument Manufacturing Company. (See Davis, Alfred U., assignor.)

Davis, John D. (See Dunlop, D., and Davis.) (Reissue.)

Davis, John H., New York, N. Y. Adjusting device for belts. No. 1,385,309; July 19; v. 288; p. 554.

Davis, Joseph, assignor to The Insel Company, Newark, N. J. Signal-light for vehicles. No. 1,383,606; July 5; v. 288; p. 72.

Davis, Merrill, Detroit, Mich., assignor to Morgan and Wright. Control for tire-stripping machines. No. 1,384,431; July 12; v. 288; p. 293.

Davis, Monroe, Enid, Okla., assignor of one-half to A. R. Arceneaux, Welsh, La. Grain drier and cooler. No. 1,384,689; July 12; v. 288; p. 347.

Davis, William J. (See Hughes, T. B., Davis, and Hughes.)

Davis, Willie H., Accoville, W. Va. Miner's breastplate. No. 1,383,909; July 5; v. 288; p. 134.

Davison, Guy S., Holderness, N. H., assignor, by mesne assignments, to The Longford Company of America, Cambridge, Mass. Motor-vehicle extension drive-shaft. (Reissue.) No. 15,140; July 12; v. 288; p. 256.

Davy Brothers. (See Hand, Thomas W., assignor.)

Dawkings, William V., Whitstable, England. Mixing and aerating machine. No. 1,384,383; July 12; v. 288; p. 282.

Dawson, James C., Webster Groves, Mo. Ledger. No. 1,383,537; July 5; v. 288; p. 57.

De Baufre, William L., Highland Park, Mich. Gas-analysis apparatus. No. 1,384,603; July 12; v. 288; p. 329.

De Bellis, Gennaro, Philadelphia, Pa. Shower-bath device. No. 1,383,987; July 5; v. 288; p. 151.

Decker, John, and A. C. Van Sluys, assignors to Nashua Gummed & Coated Paper Company, Nashua, N. H. Method of and apparatus for waxing paper. No. 1,385,042; July 19; v. 288; p. 500.

De Coster, Lester H., Jackson, Mich. Washing-machine. No. 1,385,205; July 19; v. 288; p. 534.

De Giers, Clarence A., Keyport, N. J., assignor to W. H. Barker, New Brighton, N. Y. Airplane-screw. No. 1,384,308; July 12; v. 288; p. 266.

Delco-Light Company. (See Dickey, Ernest, assignor.)

Demarest, Charles S. (See Toomey, J. F., and Demarest.)

Demarest, Charles S., New York, A. B. Clark, Brooklyn, N. Y., and G. Crisson, Hoboken, N. J., assignors to American Telephone and Telegraph Company. Telephone repeater equipment. No. 1,384,994; July 19; v. 288; p. 491.

Demarne, Désiré P., Issy-les-Moulineaux, France. Mechanical transmission. No. 1,385,247; July 19; v. 288; p. 542.
Dempler, George F., assignor, by mesne assignments, to Protected Seal Valve Company, Pittsburgh, Pa. Valve. No. 1,384,432; July 12; v. 288; p. 293.
Den Besten, Gerrit. (See Hulsebos, A. B., and Den Besten.)
Denison, Howard P., Syracuse, N. Y. Apparatus for coloring or printing thread. No. 1,384,940; July 19; v. 288; p. 478.
Dennis, Adolphus S., Oakland, Calif. Calculating-machine. No. 1,383,607; July 5; v. 288; p. 72.
De Normanville, Edgar J., London, England. Variable velocity-ratio gearing. No. 1,383,988; July 5; v. 288; p. 151.
De Olaneta, Harold, assignor to The Winchester Repeating Arms Company, New Haven, Conn. Making paper centering-cups or the like. No. 1,385,431; July 26; v. 288; p. 655.
Derrow, Philip, Chicago, Ill. Automobile-support. No. 1,384,798; July 19; v. 288; p. 450.
De Saussure, Frank M., Jr., Greenville, S. C. Ladder. No. 1,383,341; July 5; v. 288; p. 17.
Detroit Fuse & Manufacturing Company. (See Horton, B. D., Ball, and Zenker, assignors.)
Detroit Pressed Steel Company. (See Putnam, Alden J., assignor.)
Detroit Tire Carrier Co. (See Wasserfallen, Charles W., assignor.)
De Vaughn, Jerrold P., Buffalo, N. Y. Envelop. No. 1,385,248; July 19; v. 288; p. 542.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Fabric-cutting and stitching machine. No. 1,384,519; July 12; v. 288; p. 311.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Feed-off-the-arm sewing-machine. No. 1,384,829; July 19; v. 288; p. 456.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Tubular-arm sewing-machine. No. 1,385,364; July 26; v. 288; p. 641.
De Voe, William E., Chicago Heights, assignor to The Under-Feed Stoker Company of America, Chicago, Ill. Underfeed stoker. No. 1,385,433; July 26; v. 288; p. 656.
Delaware Chair Company, The. (See Derbyshire, Philo O., assignor.)
Delaware Chemical Engineering Company. (See Du Pont, Francis I., assignor.)
Dell, Phillip J., Jr., Waycross, Ga., assignor to W. J. Gassett, Ware county, Ga. Engine-timer. No. 1,385,907; July 26; v. 288; p. 752.
Derbyshire, Philo O., Chicago, Ill., assignor to The Delaware Chair Company, Delaware, Ohio. Combined school desk and chair. No. 1,385,432; July 26; v. 288; p. 655.
Deutsche Kraftspeding-Gesellschaft M. B. H. (See Wendeler, Ernst, assignor.)
Devenish, Christopher, Bossburg, Wash. Miner's drill-holder. No. 1,385,523; July 26; v. 288; p. 674.
Dewey, Will E., Rockford, Ill. Carburetor. No. 1,384,799; July 19; v. 288; p. 450.
Dexter Folder Company. (See Christophel, Carl E., assignor.)
Dibert, Lloyd N., San Francisco, Calif. Grain-bearder. No. 1,384,071; July 19; v. 288; p. 507.
Dickey, Ernest, assignor, by mesne assignments, to Delco-Light Company, Dayton, Ohio. Portable power unit. No. 1,383,391; July 5; v. 288; p. 28.
Dickinson, Dwight M., Atlanta, Ga. Check. No. 1383,792; July 5; v. 288; p. 111.
Dickinson, Herbert, Norwood, and G. A. W. Hepburn, Maida Hill, England. Stereoscopic projecting apparatus. No. 1,383,538; July 5; v. 288; p. 57.
Dickinson, J. Q. (See Dickinson, Lewis, assignor.)
Dickinson, Lewis, assignor of one-half to J. Q. Dickinson, Jacksonville, Fla. Hammer. No. 1,383,452; July 5; v. 288; p. 41.
Dickow, Fred C., Chicago, Ill. Index-center or the like. No. 1,383,698; July 5; v. 288; p. 92.
Dicks, Thomas A., assignor to Standard Steel Propeller Company, Pittsburgh, Pa. Propeller. No. 1,383,791; July 5; v. 288; p. 111.
Dieckmann, Carl F., assignor to Eugene Dietzgen Company, Chicago, Ill. Vertical file. No. 1,385,524; July 26; v. 288; p. 675.
Diefenbargh, William, assignor of one-half to F. Hedges, Montpelier, Ind. Locking device for motor-cars. No. 1,384,026; July 5; v. 288; p. 159.
Diescher, August P., Pittsburgh, Pa. Mold-separating device. No. 1,383,608; July 5; v. 288; p. 73.
Diethelm, Kaspar I., New York, N. Y. Wire fabric. No. 1,385,434; July 26; v. 288; p. 656.
Dietz, Louis E., Cincinnati, Ohio. Operating device for washing-machines. No. 1,384,121; July 12; v. 288; p. 228.
Dietzgen, Eugene, Company. (See Dieckmann, Carl F., assignor.)
Dilley, Arzeno J., Muir, Mich. Grease-gun. No. 1,384,941; July 19; v. 288; p. 479.
Dillon, James W., Mount Vernon, N. Y. Sound-deadener for building structures. No. 1,385,741; July 26; v. 288; p. 719.
Dilworth, Otto L., Hartford, Conn. Artificial limb. No. 1,385,669; July 26; v. 288; p. 705.
Dilworth, Otto L., Hartford, Conn. Artificial arm and hand. No. 1,385,817; July 26; v. 288; p. 734.
Dimond, Emil, Providence, R. I. Freight-car. No. 1,385,206; July 19; v. 288; p. 534.
Dinhofer, Julius, New York, N. Y. Safety-clasp. No. 1,385,117; July 19; v. 288; p. 517.
Disbrow, Reuben B., St. Paul, Minn. Puncture-proof-tire insert. No. 1,384,243; July 12; v. 288; p. 253.
Disbrow, Reuben B., St. Paul, Minn. Inner tube. No. 1,384,244; July 12; v. 288; p. 253.
Dischinger, Joseph A., Tonawanda, N. Y. Support for hanks of silk, yarn, and the like in treating-machines. No. 1,384,052; July 12; v. 288; p. 214.
Diss, Louis P., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,383,699; July 5; v. 288; p. 92.
Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Adapter for saddle-clamps. No. 1,384,526; July 12; v. 288; p. 311.
Divirglio, Ignasio, Pitcairn, Pa. Fire-tube cleaner. No. 1,383,291; July 5; v. 288; p. 7.
Dixon, Allen, assignor of one-half to W. N. Sanders, Nashville, Tenn. Trap. No. 1,384,942; July 19; v. 288; p. 479.
Doane, John C., East Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,384,122; July 12; v. 288; p. 228.
Doane, John C., East Hartford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,384,123; July 12; v. 288; p. 228.
Doble, William A., assignor to The Pelton Water Wheel Company, San Francisco, Calif. System of vertical-transmission-shaft construction and means for lubricating the same. No. 1,383,989; July 5; v. 288; p. 152.
Docker, Edward. (See Docker, William M. and E.)
Docker, William M. and E., Kamloops, British Columbia, Canada. Display-stand. No. 1,385,670; July 26; v. 288; p. 705.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Illuminating means. No. 1,385,778; July 26; v. 288; p. 726.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,385,779; July 26; v. 288; p. 727.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,385,780; July 26; v. 288; p. 727.
Dodds, Samuel R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electromagnetic switch. No. 1,384,451; July 12; v. 288; p. 296.
Dodds, Samuel R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,384,452; July 12; v. 288; p. 297.
Dodge, Martin L., assignor of one-half to A. E. Paye, Lake Kushaqua, N. Y. Bookrest for hospital-beds and chairs. No. 1,384,744; July 19; v. 288; p. 438.
Dodgson, Frank L., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Absolute permissive block-signaling system. No. 1,384,521; July 12; v. 288; p. 311.
Doehler Die Casting Company. (See Chapple, Charles E., assignor.)
Doell, Theodore W., and L. A. F. Maes, Corona, Calif. Extracting pectin. No. 1,385,525; July 26; v. 288; p. 675.
Doering, Charles. (See Doering, Henry H., and C.)
Doering, Henry H., and C., Chicago, Ill. Butter-print machine. No. 1,384,245; July 12; v. 288; p. 254.
Dolensky, Eugen, Frankfort-on-the-Main, Germany. Producing gas of bituminous fuel mixed by the gas of the distillation of coal. No. 1,384,453; July 12; v. 288; p. 297.
Domanski, Stanislaw, Elyria, Ohio. Plow. No. 1,383,609; July 5; v. 288; p. 73.
Domenico, Delana, San Francisco, Calif. Power-generating apparatus. No. 1,385,526; July 26; v. 288; p. 675.
Domestic Sewing Machine Co. (See Riddell, George H., assignor.)
Domhoff, John F., and R. M. Sabo, East St. Louis, Ill. Gas-stove. No. 1,385,310; July 19; v. 288; p. 554.
Dominick, Charles, Bath, Me. Cigarette-case. No. 1,384,690; July 12; v. 288; p. 347.
Doremus, Isaac W., West Englewood, N. J. Game. No. 1,383,610; July 5; v. 288; p. 73.
Dougan, Bruce, St. Louis, Mo. Receptacle for bottles and the like. No. 1,383,453; July 5; v. 288; p. 41.
Dougan, Kennedy, Minneapolis, Minn. Steering mechanism for dirigible bodies. No. 1,384,745; July 19; v. 288; p. 439.
Doughtie, John E., *et al.* (See Howell, Henry M., assignor.)
Douglas, William, Kingswood, Bristol, England. Roller-bearing. No. 1,383,292; July 5; v. 288; p. 7.
Doutney, George, Brooklyn, N. Y. Lock for envelops and other containers. No. 1,384,604; July 12; v. 288; p. 329.
Dow, Andrew, Seattle, Wash. Stump-puller. No. 1,384,384; July 12; v. 288; p. 283.
Dowden, John E., Lake Preston, S. D. Loading-machine. No. 1,383,910; July 5; v. 288; p. 135.

Downs, Richard, *et al.* (See Howell, Henry M., assignor.)
Doxford, Robert P. (See Keller, Karl O., assignor.)
Doyle, William T., assignor to Sturtevant Mill Company, Boston, Mass. Apparatus for manufacturing acid phosphate or superphosphate. No. 1,383,911; July 5; v. 288; p. 135.
Doyle, William T., assignor to Sturtevant Mill Company, Boston, Mass. Manufacturing acid phosphate or superphosphate. No. 1,383,912; July 5; v. 288; p. 135.
Drabeck, John C. (See Welling, Matthew J., assignor.)
Dragon, Jens, assignor of one-half to W. A. Boro, Enaville, Idaho. Saw-handle. No. 1,385,671; July 26; v. 288; p. 705.
Drake, A. W., Manufacturing Company. (See Gomber, George W., assignor.) (Reissue.)
Drake, James C., Rochester, Minn., assignor to Sears, Roebuck and Company, Chicago, Ill. Sound-box mounting for talking-machines. No. 1,385,118; July 19; v. 288; p. 517.
Draper Corporation. (See Rhoades, Alonzo E., assignor.)
Draper Corporation. (See Stone, Melvin L., assignor.)
Draper Corporation. (See Tinkham, Eugene L., assignor.)
Dresbach, Mary, New Haven, Conn. Brassière. No. 1,385,672; July 26; v. 288; p. 705.
Dresner, Samuel, Chicago, Ill. Frame for traveling-bags. No. 1,384,433; July 12; v. 288; p. 293.
Dressler, Philip, Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln. No. 1,384,434; July 12; v. 288; p. 293.
Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln with sectional combustion-chambers. No. 1,384,435; July 12; v. 288; p. 294.
Drew, Harry A., West New York, N. J., assignor, by mesne assignments, to Coin Device and Signal Co. Inc., New York, N. Y. Coin collecting, registering, and change-delivering apparatus. No. 1,384,436; July 12; v. 288; p. 294.
Drewsen, Vigzo, Brooklyn, N. Y. Production of acetone by distillation of sodium acetate, &c. No. 1,385,866; July 26; v. 288; p. 744.
Dreyfoos, Alexander W., Mount Vernon, N. Y. Photographic drying-machine. No. 1,385,365; July 26; v. 288; p. 642.
Drozds, Wicenty, assignor of one-half to E. Borowski, Cleveland, Ohio. Floor scrubbing and mopping machine. No. 1,384,124; July 12; v. 288; p. 229.
Druar, Frank J., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,384,309; July 12; v. 288; p. 269.
Du Brie, Stanley R., assignor to E. H. Kramer, Detroit, Mich. Tractor. No. 1,385,249; July 19; v. 288; p. 542.
Ducker Sectional Building Corporation. (See Ducker, William M., assignor.)
Ducker, William M., assignor to Ducker Sectional Building Corporation, New York, N. Y. Retaining device for window-sash. No. 1,374,556; July 12; v. 288; p. 318.
Duda, Oswald, Houston, Tex., assignor to Reed Roller Bit Company. Wrench. No. 1,384,800; July 19; v. 288; p. 450.
Duer, Solon, St. Paris, Ohio. Hand warm or grip for steering-wheels. No. 1,385,527; July 26; v. 288; p. 675.
Dufaux, Charles F., Geneva, Switzerland. Magneto-electric generator for lighting vehicles. No. 1,385,119; July 19; v. 288; p. 517.
Duff, John H., Kansas City, Mo. Car-brake. No. 1,384,454; July 12; v. 288; p. 297.
Duffy, James U., assignor to The Friction Car Stop Company, Cleveland, Ohio. Car-stop shoe. No. 1,385,528; July 26; v. 288; p. 675.
Dungan, John E., Canton, Ohio, assignor of seven-sixteenths to W. S. Bryson, one-sixteenth to B. F. Bone, one-sixteenth to F. M. Howard, one-sixteenth to J. A. Schaub, one-sixteenth to A. C. Scroggins, Jr., one-sixteenth to H. J. Zink, and one-sixteenth to E. E. Koontz, Moundsville, W. Va. Machine for dispensing semisolid substances. No. 1,384,310; July 12; v. 288; p. 267.
Dunham, John C., Greenville, Ohio. Safety-razor. No. 1,384,691; July 12; v. 288; p. 348.
Dunham, Milbourne K., assignor of one-third to C. Berg, and two-thirds to W. Klingberg, New York, N. Y. Heater. No. 1,384,746; July 19; v. 288; p. 439.
Dunkelberger, Milton S., Dayton, Ohio. Collapsible slip-on. No. 1,385,043; July 19; v. 288; p. 500.
Dunlop, David, and J. D. Davis, Petersburg, Va. Auxiliary air-intake for internal-combustion engines. (Reissue.) No. 15,163; July 26; v. 288; p. 766.
Dunn Manufacturing Company, (See Dunn, William L., assignor.)
Dunn, William L., assignor to Dunn Manufacturing Company, Oxnard, Calif. Well-elevator. No. 1,385,485; July 26; v. 288; p. 656.
Dunwoody, Henry H. C., Washington, D. C. Cycloid propeller. No. 1,385,908; July 26; v. 288; p. 752.
Duplessie, Joseph, assignor of one-half to George F. Rooke, Providence, R. I. Grinding-fixture. No. 1,384,726; July 12; v. 288; p. 354.
Du Pont, E. I., de Nemours & Company. (See Lednum, Edmund T., assignor.)
Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. Burner for steam-automobiles. No. 1,385,366; July 26; v. 288; p. 642.
Dupont, George C., South Croydon, assignor to Philip and Tracey, Limited, Fulham, London, England. Fastener, support, and the like. No. 1,385,311; July 19; v. 288; p. 554.
Dupont, Martin S., Chicago, Ill. Fan. No. 1,384,053; July 12; v. 288; p. 214.
Dupré, Wilfred, Worcester, assignor of one-half to F. A. Moore, Foxboro, Mass. Automatic tracking device No. 1,383,390; July 5; v. 288; p. 28.
Durant, Charles. (See Wells, Fred B., assignor.)
Durkee, Chauncey H., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Automatic control for processing apparatus. No. 1,385,609; July 26; v. 288; p. 692.
Durnell, Cecil M., Daytona Beach, assignor to J. F. Phillips, Wilson, Fla. Shade and curtain bracket. No. 1,384,248; July 12; v. 288; p. 254.
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,312; July 19; v. 288; p. 555.
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo, No. 1,385,313; July 19; v. 288; p. 555.
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,314; July 19; v. 288; p. 555.
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,315; July 19; v. 288; p. 555.
Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,385,316; July 19; v. 288; p. 555.
Dutcher, Pierpont E., Upper Montclair, N. J. Excavating apparatus. No. 1,383,913; July 5; v. 288; p. 135.
Dye, Glen M., assignor to Photographic Appliances Corporation, Minneapolis, Minn. Conveyer-apron. No. 1,384,125; July 12; v. 288; p. 229.
Dyer, Frank L. (See Tunison, Harold L., assignor.)
Dyer, Gon Z., Williamson, W. Va. Convertible vehicle-body. No. 1,385,317; July 19; v. 288; p. 555.
Dymond, Bartholdia, Charlottesville, Va. Bearing-fitting tool. No. 1,383,454; July 5; v. 288; p. 41.
Eagle Engineering Company. (See Sykes, George, assignor.)
Eakin, John P., Jollytown, Pa. Adjustable seat. No. 1,385,742; July 26; v. 288; p. 719.
Earl, Geo. G., *et al.* (See Brown, Charles A., assignor.)
Easterbrooks, Walter E. (See Coombs, Edgar I., assignor.)
Eastman, Carrie J., *et al.* (See Eastman, H. N., assignor.)
Eastman, Harry N., assignor of one-third to T. F. McDonald, one-third to A. A. McDonald, Dayton, and one-third to C. J. Eastman, Portsmouth, Ohio. Gas-mixer for internal-combustion engines. No. 1,384,184; July 12; v. 288; p. 241.
Eastman Kodak Company. (See Folmer, William F., assignor.)
Eastman Kodak Company. (See Hurlburt, David M., assignor.)
Eastman Kodak Company. (See Lubashez, Nahum E., assignor.)
Eastman Kodak Company. (See Punnett, M. B., and Whitaker, assignors.)
Eastman, Lyman H. (See Bartlett, C. A., and Eastman.)
Ebert, Alfred O. H. (See Pruszynski, A. J., and Ebert.)
Eckberg, Gustaf E. (See Lundell, V. S., and Eckberg.)
Eckel, Henry K., Milwaukee, Wis. Composition body for shoe-soles and the like. No. 1,383,793; July 5; v. 288; p. 111.
Eckelmann, Luis E., and G. E. Ferguson, New York, N. Y., assignors to Pyrene Manufacturing Company. Chemical heater. No. 1,384,747; July 19; v. 288; p. 439.
Eckerle, Charles E., Birmingham, Ala. Vaporizer for oil-burners. No. 1,384,522; July 12; v. 288; p. 311.
Edel, Max, Nuremberg, assignor to the Firm of Maschinenfabrik Worzeldorf H. A. Paulus & Franck, Worzeldorf-Nuremberg, Germany. Rake with exchangeable prongs. No. 1,385,965; July 26; v. 288; p. 763.
Edelmann, Otto, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Bracket for suspending cables and the like. No. 1,384,437; July 12; v. 288; p. 294.
Edwards, Harry T., assignor of one-half to Ajax Foundry Company, San Francisco, Calif. Casting-core. No. 1,384,438; July 12; v. 288; p. 294.
Edwards, O. M., Company, The. (See Chaffee, Edward F., assignor.)
Egerton, Henry C., Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Acoustic device. No. 1,383,700; July 5; v. 288; p. 92.
Egloff, Hermann, Los Angeles, Calif. Valve-lifting device. No. 1,385,436; July 26; v. 288; p. 656.
Ehrlich, Charles, deceased; M. Ehrlich, administrator, Brooklyn, N. Y. Wire fabric. No. 1,384,748; July 19; v. 288; p. 439.
Ehrlich, Max, administrator. (See Ehrlich, Charles.)
Ehrlich, William, Chicago, Ill. Apple paring, coring, and slicing machine. No. 1,384,013; July 5; v. 288; p. 157.
Ehrmann, George B., Troy, N. Y. Ironing neckbands. No. 1,384,605; July 12; v. 288; p. 329.
Eichengreen Sales Corporation, *et al.* (See Case, William A., assignor.)
Einsele, George N., Cedar Lake, Ind. String-truing machine. No. 1,385,367; July 26; v. 288; p. 642.

Ekman, Gunner A., Winchester, Mass. Multiple-gun-firing apparatus or bomb. No. 1,385,120; July 19; v. 288; p. 517.

Electric Boat Company. (See Grieshaber, Hugo E., assignor.)

Electric Controller & Manufacturing Company, The. (See Stratton, Harry F., assignor.)

Electric Gun Corporation. (See MacLaren, Frederick B., assignor.)

Electric Service Supplies Company. (See Mayer, Walter S., assignor.)

Electric Storage Battery Company. (See Palmer, William H., Jr., assignor.)

Electrothermal Company. (See Homan, John G., assignor.)

Elisberg, Benjamin, New York, and W. Sheff, Brooklyn, N. Y. False-teeth attachment. No. 1,384,717; July 12; v. 288; p. 353.

Eller, Otto H., New York, N. Y. Flying toy. No. 1,385,073; July 19; v. 288; p. 507.

Ellerman, Edward, assignor of fifty-one one-hundredths to J. E. Mitchell, Littleton, Colo. Automobile-trailer. No. 1,385,437; July 26; v. 288; p. 656.

Ellert, Charles O., Brooklyn, N. Y. Safety-pin. No. 1,385,743; July 26; v. 288; p. 719.

Ellicott, Valcoulon L., Baltimore, Md. Method of and apparatus for determining photographic exposures. No. 1,385,940; July 26; v. 288; p. 758.

Elling, Jens W. E., assignor to A/S Myrens Verksted, Christiania, Norway. Wet centrifugal compressor. No. 1,385,318; July 19; v. 288; p. 556.

Elliott, Harold F., Palo Alto, assignor to A. Taylor, San Francisco, Calif. Arc-radio-oscillation generator. No. 1,385,121; July 19; v. 288; p. 518.

Ellis, Carleton, Montclair, N. J., assignor to Ellis-Foster Co. Oil-proofed container and making same. No. 1,385,941; July 26; v. 288; p. 758.

Ellis, George D., & Sons. (See Ellis, John D., assignor.)

Ellis, John D., assignor, by mesne assignments, to G. D. Ellis & Sons, Incorporated, Philadelphia, Pa. Can-fastening. No. 1,383,701; July 5; v. 288; p. 92.

Ellis-Foster Co. (See Ellis, Carleton, assignor.)

Ellis, William M., Kenton, Ohio. Spark-plug. No. 1,385,529; July 26; v. 288; p. 676.

Ellsworth, William, and R. E. MacKellar, Ashland, Ohio. Light-deflector. No. 1,383,702; July 5; v. 288; p. 92.

Elmen, Gustaf W., Leonia, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating metal particles. No. 1,383,703; July 5; v. 288; p. 92.

Elvers, Hans C., assignor to Gisholt Machine Company, Madison, Wis. Adjusting and locking device for chuck-jaws. No. 1,384,557; July 12; v. 288; p. 310.

Elvy, Frank J., Catford, London, England. Boat and the like. No. 1,383,392; July 5; v. 288; p. 28.

Elyria Iron and Steel Company, The. (See Ferrier, Walter, assignor.)

Eisl, Peter F., Denver, Colo. Marking-tag. No. 1,385,530; July 26; v. 288; p. 676.

Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)

Emery, Frank A. (See Adams, A. A., and Emery.)

Emmenegger, Frank, St. Louis, Mo. Combination automobile-tire tool. No. 1,384,385; July 12; v. 288; p. 283.

Emmerling, Rudolph C., West Hoboken, N. J. Pantograph. No. 1,383,914; July 5; v. 288; p. 135.

Empire Cream Separator Company. (See McCormack, Herbert, assignor.)

Emtage, Nathaniel C., assignor to C. J. Everett, New Orleans, La. Addition compound for coffee. No. 1,384,692; July 12; v. 288; p. 348.

Enameled Steel Sign Company. (See Bacon, William M., assignor.)

Engel, Charles R., Yoman, Wash. Riveting machinery. No. 1,383,915; July 5; v. 288; p. 136.

Engel, Godfrey, Sr., Brooklyn, N. Y. Cap construction for sugar-mills. No. 1,383,539; July 5; v. 288; p. 58.

Engineering Corporation, N. C. L. (See Noble, Warren.)

England, Frank W. (See Olson, C. G., and England.)

Engle, Isaiah G. (See Stayman, David F., assignor.)

Enke, Martin F., Oakland, Calif. Ladder. No. 1,385,310; July 19; v. 288; p. 556.

Enterprise Manufacturing Company, The. (See Pflueger, Charles T., assignor.)

Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)

Eoff, John R., Jr. (See Smith, B. H., and Eoff.)

Erickson, James. (See St. John, Miles C., assignor.)

Erickson, Edward. Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Compressing-machine. No. 1,384,185; July 12; v. 288; p. 241.

Erickson, Henry. (See Bartlett, C. A., and Eastman, assignors.)

Ericson, Lawrence, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Ignition-distributer. No. 1,385,368; July 26; v. 288; p. 642.

Ericson, Peter, Tacoma, Wash. Rotary engine. No. 1,383,916; July 5; v. 288; p. 136.

Errington, Franklin A., Stapleton, N. Y. Multiple tapping device and similar tool. No. 1,385,438; July 26; v. 288; p. 657.

Ervin, Preston, Emporia, Kans. Berry cleaner and stemmer. No. 1,384,455; July 12; v. 288; p. 297.

Eschholz, Otto H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrode-holder for arc-welding. No. 1,384,439; July 12; v. 288; p. 295.

Essex Rubber Company. (See Sanders, Walter E., assignor.)

Etchells, John W., Brooklyn, N. Y. Hat-rack and coat-holder. No. 1,383,611; July 5; v. 288; p. 73.

Eury, Zebulon J., Fort Worth, Tex. Repairing scored cylinders. No. 1,384,456; July 12; v. 288; p. 298.

Eva, Addison H., San Antonio, Tex. Holder and tie. No. 1,383,917; July 5; v. 288; p. 136.

Evancho, Peter, Oneida, Pa. Pneumatic-tire protector. No. 1,383,612; July 5; v. 288; p. 78.

Evans, Howard C., Lynchburg, Va. Poultry device. No. 1,384,064; July 12; v. 288; p. 214.

Evans, Lewis J., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Co. Gear-cutting machine. No. 1,384,558; July 12; v. 288; p. 319.

Evans, Garfield I. (See Fraser, John G., assignor.)

Evans, Robert L., Roanoke, Va. Double-pressure ventvalve for angle-cocks. No. 1,385,122; July 19 v. 288; p. 518.

Everett, Cornelius J. (See Emtage, Nathaniel C., assignor.)

Everken, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Acid-resisting receptacle. No. 1,384,023; July 5; v. 288; p. 159.

Evers, Cyrus, Brooklyn, assignor to Lidgerwood Manufacturing Company, New York, N. Y. Winding or hoisting engine. No. 1,383,704; July 5; v. 288; p. 92.

Ewing, Earl J. (See Quarmby, J. I., and Ewing.)

Ewing, Samuel R. (See Quarmby, J. I., and Ewing.)

Excelsior Steel Furnace Company, The. (See Menk, Rudolph W., assignor.)

Eynon, Harold G., Philadelphia, Pa. Electrically-operated centrifugal casting-machine. No. 1,385,781; July 26; v. 288; p. 727.

Fadness, Adolph R., Velva, N. D. Adjustable sieve-holder for threshing-machines. No. 1,383,918; July 5; v. 288; p. 136.

Fahey, William, Cleveland, Ohio. Lubricating apparatus. No. 1,385,531; July 26; v. 288; p. 676.

Faillace, Frank, New York, N. Y. Convertible vehicle-body. No. 1,386,909; July 26; v. 288; p. 752.

Fairbanks, E. and T., and Company. (See Starr, Morton H., assignor.)

Fairhead, James, assignor to The Lake Simcoe Ice Supply & Cold Storage Co. Limited, Toronto, Ontario, Canada. Ice-scoring machine. No. 1,384,749; July 19; v. 288; p. 439.

Farb, Pincus, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Chuck for talking-machine needles and the like. No. 1,383,613; July 5; v. 288; p. 74.

Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Pump-lubricator. No. 1,384,889; July 19; v. 288; p. 468.

Farnsworth, William W., Littleton, Colo. Cleaning apparatus. No. 1,383,455; July 5; v. 288; p. 41.

Farnsworth, William W., Littleton, Colo. Cleaning apparatus. No. 1,383,456; July 5; v. 288; p. 41.

Farnum, William C., Winchendon, Mass. Transmission mechanism for motors. No. 1,383,705; July 5; v. 288; p. 93.

Farnum, William C., Winchendon, Mass. Gear-reduction mechanism. No. 1,383,706; July 5; v. 288; p. 93.

Farnum, William C., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Making gear-cutters. No. 1,383,707; July 5; v. 288; p. 93.

Farr, Frederick G., assignor to Hydraulic Oil Systems Corporation, Detroit, Mich. Liquid-dispensing apparatus. No. 1,383,708; July 5; v. 288; p. 94.

Farrand, Clair L., Elizabeth, N. J., assignor, by mesne assignments, to Radio Corporation of America. Radio-transmitter. No. 1,385,818; July 26; v. 288; p. 735.

Farrell, William J., New York, N. Y. Radiator. No. 1,384,606; July 12; v. 288; p. 329.

Farrow, Irving J., assignor of one-half to A. J. Koehler, New York, N. Y. Ticket-dispensing apparatus. No. 1,383,393; July 5; v. 288; p. 28.

Faulhaber, Frank J., New York, N. Y. Tractor and trailer assemblage. No. 1,383,709; July 5; v. 288; p. 94.

Faulkner, Lawson F., Alexa Lake, British Columbia, Canada. Saw-guide. No. 1,385,673; July 26; v. 288; p. 705.

Faultless Caster Company. (See Smithfield, Emil H., assignor.)

Faust, Casper, Oshkosh, Wis., assignor of one-eighth to H. Nolte, St. Paul, Minn., one-eighth to J. B. Pushee, Milwaukee, one-eighth to F. J. Stopper, Oshkosh, Wis., one-eighth to W. H. Faust, and one-eighth to F. J. Faust, Oshkosh, Wis. Toy wagon. No. 1,383,457; July 5; v. 288; p. 42.

Faust, Clyde A. (See Faust, Jacob N. and C. A.)

Faust, Francis J., *et al.* (See Faust, Casper, assignor.)

Faust, Jacob N. and C. A., Chicago, Ill. Supporting-garment. No. 1,384,440; July 12; v. 288; p. 295.

Faust, Walter H., *et al.* (See Faust, Casper, assignor.)

Feder, William, assignor to Theo. B. Robertson Products Co., Chicago, Ill. Brush. No. 1,385,532; July 26; v. 288; p. 676.

Federal Adding Machine Corporation. (See Spiro, Charles, assignor.)

Federal Products Company. (See Coates, Frederick, assignor.)

Fedoroff, Vladimir P., New York, N. Y. Alarm-signal. (Reissue.) No. 15,150; July 12; v. 288; p. 356.

Feinstone, Samuel, Brooklyn, assignor of one-half to Freydberg Brothers Inc., New York, N. Y. Garment-belt structure. No. 1,385,533; July 26; v. 288; p. 676.

Feitel, Daniel W., New Orleans, La. Safety-guard for sewing-machines. No. 1,384,607; July 12; v. 288; p. 330.

Feudner, Willard J. (See Beach, H. L., and Feudner.)

Ferguson Forge Engineering Co. (See Ferguson, Thomas B., assignor.)

Ferguson, George E. (See Eckelmann, L. E., and Ferguson.)

Ferguson, George E., New York, N. Y., assignor to Pyrene Manufacturing Company. Chemical heater. No. 1,385,074; July 19; v. 288; p. 507.

Ferguson, George E., New York, N. Y., assignor to Pyrene Manufacturing Company. Preventing crystallization of a melted mass of crystals. No. 1,385,075; July 19; v. 288; p. 507.

Ferguson, Lorne E., Parkland, Alberta, Canada. Pipe-holder. No. 1,384,055; July 12; v. 288; p. 215.

Ferguson, Thomas B., Newark, N. J., assignor to Ferguson Forge Engineering Co. Oil-burner. No. 1,384,943; July 19; v. 288; p. 479.

Ferrari, Lorenzo, Oakland, Calif. Educational apparatus. No. 1,384,801; July 19; v. 288; p. 450.

Ferrier, Walter, Elyria, assignor to The Elyria Iron and Steel Company, Cleveland, Ohio. Control device for automatic machines. No. 1,385,369; July 26; v. 288; p. 642.

Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Method and apparatus for signaling and otherwise utilizing radiant impulses. No. 1,384,014; July 5; v. 288; p. 157.

Fessenden, Reginald A., Brookline, Mass., assignor to Submarine Signal Company, Portland, Me. Sound signaling. No. 1,384,029; July 5; v. 288; p. 160.

Fessenden, Reginald A., Newton, Mass., assignor to Submarine Signal Company, Portland, Me. Destroying enemy gun positions. No. 1,384,030; July 5; v. 288; p. 160.

Fetters, Charles A., Washington, D. C. Baggage-tag. No. 1,384,457; July 12; v. 288; p. 298.

Fibre Can Corporation. (See Ford, Ben K., assignor.)

Ficklen, William E., Norfolk, Va. Making pavements. No. 1,383,459; July 5; v. 288; p. 42.

Field, Allan J., New York, N. Y. Dyestuff and making the same. No. 1,383,710; July 5; v. 288; p. 94.

Field, Allan J., New York, N. Y. Monoazo dyestuff. No. 1,383,711; July 5; v. 288; p. 95.

Field, Millard F., Winthrop, Mass., assignor to Barber-Colman Company, Rockford, Ill. Machine for operating upon warps. No. 1,383,712; July 5; v. 288; p. 95.

Fields, John J., 3d. (See Hoornbeek, Lodewyck, assignor.)

Finch, Stanley W., Washington, D. C. Lubricating system. No. 1,383,919; July 5; v. 288; p. 137.

Fink, Colin G., Yonkers, assignor to Chile Exploration Company, New York, N. Y. Alloy. No. 1,384,056; July 12; v. 288; p. 215.

Firestone Tire and Rubber Company, The. (See Bush, A. A., and Freitag, assignors.)

Firestone Tire and Rubber Company, The. (See Jones, Robert R., assignor.)

Firestone Tire and Rubber Company, The. (See Maranville, Harvey F., assignor.)

Firm Motorwagenfabrik Berna A-G. (See Rutishauser, Arnold, assignor.)

Firm Scintilla. (See Bohli, Jacques, assignor.)

Fisher, Ada, London, England. Box for containing face-powder or the like. No. 1,383,394; July 5; v. 288; p. 28.

Fisher, Alfred, Chicago, Ill. Oil-burner system for furnaces. No. 1,385,534; July 26; v. 288; p. 677.

Fisher, Henry W. (See Fries, C., and Fisher.)

Fisher, Stanley L., Chester, assignor to The Pratt Read Player Action Company, Deep River, Conn. Player-piano. No. 1,384,993; July 19; v. 288; p. 490.

Fisk Rubber Company, The. (See Marquette, Melvon A., assignor.)

Flam, John, U. S. Army, assignor to Secretary of War of the United States of America. Percussion-fuse. No. 1,385,610; July 26; v. 288; p. 693.

Flannery Bolt Company. (See Dodds, Ethan I., assignor.)

Flannigan, Andrew W., Milwaukee, Wis. Sifter. No. 1,384,441; July 12; v. 288; p. 295.

Fleet, James, Montreal, Quebec, Canada. Puzzle. No. 1,384,057; July 12; v. 288; p. 215.

Fletcher, Willoughby R., Brinkman, Okla. Baling-press. No. 1,385,439; July 26; v. 288; p. 657.

Flintkote Company, The. (See Kiracofe, Otterbein, assignor.)

Flood Manufacturing Company. (See Lang, Albert R., assignor.)

Flood, John R., Everett, Wash. Automatic swivel-trailer coupling. No. 1,384,944; July 19; v. 288; p. 479.

Florendine, James. (See Barnett, W., and Florendine.)

Florkey, Clayton M., Kokomo, Ind. Vest-supporter. No. 1,384,693; July 12; v. 288; p. 348.

Flournoy, Robert, Seven Oaks, Tex. Link gear. No. 1,375,123; July 19; v. 288; p. 518.

Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Connection between side frames and tie-bars. No. 1,384,440; July 26; v. 288; p. 657.

Follinger, Herbert C., Chicago, Ill., assignor to Chain Belt Company, Milwaukee, Wis. Cooling-tank. No. 1,384,311; July 12; v. 288; p. 267.

Folmer, William F., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic exposing apparatus. No. 1,383,395; July 5; v. 288; p. 29.

Ford, Ben K., Oak Park, assignor to Fibre Can Corporation, Chicago, Ill. Machine for reducing the ends of container-bodies. No. 1,384,945; July 19; v. 288; p. 479.

Ford, Harry R. (See Burganer, Aaron A., assignor.)

Ford, William H. D., assignor to Western Electric Company, Incorporated, New York, N. Y. Spring-tension gage. No. 1,383,718; July 5; v. 288; p. 95.

Forman, John R. (See Willett, Hasen F., assignor.)

Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,384,442; July 12; v. 288; p. 295.

Foster Brothers Manufacturing Company. (See Foster, William B., assignor.)

Foster, Ephraim A., Sandusky, Ohio. Wheeled ladder. No. 1,384,694; July 12; v. 288; p. 248.

Foster, John P., Pala, Hawaii. Composite motor-fuel. No. 1,384,946; July 19; v. 288; p. 480.

Foster, Merriam and Company. (See Rowntree, Frank L., assignor.)

Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Corner-fastening for bedsteads. No. 1,384,126; July 12; v. 288; p. 229.

Foster, Wolcott C., Rutherford, N. J. Base-exchanging. No. 1,385,124; July 19; v. 288; p. 518.

Fowler, Carl H. (See Higley, Herman W., assignor.)

Fowler, David M., assignor of one-half to R. H. Caton, Terre Haute, Ind. Adjustable trolley-wheel fork. No. 1,384,458; July 12; v. 288; p. 298.

Fowler, Frank, Philadelphia, Pa. Toy. No. 1,383,798; July 5; v. 288; p. 112.

Fowler, Jonathan O., New York, N. Y. Safety tread. (Reissue.) No. 15,187; July 5; v. 288; p. 161.

Fox, Daniel S., Deep River, Conn. Expansion-drill. No. 1,385,370; July 26; v. 288; p. 643.

Fox, Godfrey H., Seattle, Wash. Graduated calipers. No. 1,385,910; July 26; v. 288; p. 753.

Fox, Otto, Lakewood, assignor to The Bryant Heater and Manufacturing Company, Cleveland, Ohio. Fuel control for boilers. No. 1,384,247; July 12; v. 288; p. 254.

Frank, Louis, Miami, Ariz. Direction-indicator. No. 1,384,248; July 12; v. 288; p. 254.

Frank, Louis, Miami, Ariz. Direction-indicator. No. 1,384,249; July 12; v. 288; p. 255.

Franklin, Clarence E., assignor of one-third to J. W. McDonel and one-third to E. K. Cunningham, Fostoria, Ohio. Railway-torpedo. No. 1,383,614; July 5; v. 288; p. 74.

Fraser, George H., Brooklyn, N. Y. Feeder or regulator for screening apparatus. No. 1,384,312; July 12; v. 288; p. 268.

Fraser, George H., Brooklyn, N. Y. Feed-regulator for screening and other apparatus. No. 1,384,313; July 12; v. 288; p. 268.

Fraser, George H., Brooklyn, N. Y. Method and apparatus for treating pulverized material. No. 1,385,674; July 26; v. 288; p. 706.

Fraser, George H., Brooklyn, N. Y. Apparatus for treating pulverized material. No. 1,385,675; July 26; v. 288; p. 706.

Fraser, John G., assignor of one-half to G. I. Evans, Hamilton, Ontario, Canada. Door-fastener. No. 1,385,125; July 19; v. 288; p. 518.

Frazier, Truman D., Martins Ferry, Ohio. Pneumatic tire. No. 1,383,458; July 5; v. 288; p. 42.

Fraser, William A., Brookline, Mass. Collapsible shield. No. 1,385,371; July 26; v. 288; p. 643.

Frazier, William L., Boise, Idaho. Diabetes remedy. No. 1,384,444; July 12; v. 288; p. 295.

Frazier, William L., Boise, Idaho. Diabetes remedy. No. 1,384,445; July 12; v. 288; p. 295.

Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Automatic expression-controlling device. No. 1,383,920; July 5; v. 288; p. 137.

Freborg, Charles, Kankakee, assignor to Price & Teeple Piano Company, Chicago, Ill. Motor-mounting for player-pianos. No. 1,385,819; July 26; v. 288; p. 735.

Fredel, Michael M., Brooklyn, and W. Bosanko, Richmond Hill, N. Y. Agitator. No. 1,383,921; July 5; v. 288; p. 137.

Fredriksen, Edward, Christiania, Norway. Electric fluid-heating apparatus. No. 1,385,441; July 26; v. 288; p. 657.

Freedline, David, Brooklyn, N. Y. Hat-conformator. No. 1,383,922; July 5; v. 288; p. 137.

Freeman, Walter F., Springfield, Mass. Trolley-harp extension. No. 1,383,796; July 5; v. 288; p. 112.

Freeman, Walter F., Springfield, Mass. Trolley-shoe. No. 1,383,797; July 5; v. 288; p. 112.

Freese, August, Danzig, assignor to Society "Freeses Patent" Eisenschutz und Schraubenwellenbekleidung fur Schiffe G. m. b. H., Charlottenburg, Germany. Coating of ship screw-shafts. No. 1,385,911; July 26; v. 288; p. 753.

Freitag, Richard H. (See Bush, A. A., and Freitag.)

Frely, Pierre. (See Armagnat, H., and Frely.)

French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
Freund, Samuel, Chicago, Ill. Folding box. No. 1,383,714; July 5; v. 288; p. 95.
Frey, Charles P., assignor to Brown Instrument Co., Philadelphia, Pa. Electro valve mechanism. No. 1,384,443; July 12; v. 288; p. 295.
Freydberg Brothers. (See Feinstone, Samuel, assignor.)
Frick, D Roy, Richland, Mo. Toy horse. No. 1,385,320; July 19; v. 288; p. 556.
Frick, William, assignor to Cliff Manufacturing Works, Inc., New York, N. Y. Tone-arm for phonographs. No. 1,384,015; July 5; v. 288; p. 157.
Friction Car Stop Company, The. (See Duffy, James U., assignor.)
Fried. Krupp Aktiengesellschaft. (See Akemann, Walther, assignor.)
Fried. Krupp Aktiengesellschaft. (See Bartholdy, Max, assignor.)
Fried. Krupp Aktiengesellschaft. (See Everken, Hermann, assignor.)
Fried. Krupp Aktiengesellschaft. (See Kästner, A., and Stratomeyer, assignors.)
Fried. Krupp Aktiengesellschaft. (See Pohl, Wilhelm, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schmidt, Leopold, assignor.)
Fried. Krupp Aktiengesellschaft. (See Schürmann, R., and Schmidt, assignors.)
Fried. Krupp Aktiengesellschaft. (See Sundhaussen, Hermann, assignor.)
Fried. Krupp Aktiengesellschaft. (See Wittig, Wilhelm, assignor.)
Friend, Jacob J., Everett, Mass. Caster. No. 1,383,396; July 5; v. 288; p. 29.
Fries, Chris, Perth Amboy, N. J., and H. W. Fisher, Huguenot Park, N. Y. Thermostatic control for steam-generators. No. 1,384,995; July 19; v. 288; p. 491.
Friese-Greene, William, assignor to Colour Photography Limited, London, England. Color photography. No. 1,383,460; July 5; v. 288; p. 42.
Friese-Greene, William, London, England. Panchromatic sensitizing composition. No. 1,383,620; July 5; v. 288; p. 75.
Friestedt, Sven H. (See Meade, W. H., and Friestedt.)
Frisbee, Franklin S. (See Frisbee, Gladys R. and F. S.)
Frisbee, Gladys R. and F. S., Cambridge, Mass. Game. No. 1,383,794; July 5; v. 288; p. 112.
Frisby, Daniel B., Dumont, Iowa. Harrow-cart. No. 1,385,535; July 26; v. 288; p. 677.
Fritch, James E., Cody, Nebr. Fur-stretcher. No. 1,383,923; July 5; v. 288; p. 138.
Froom, Acel H., Santa Maria, Calif. Combination barbecue iron and grate. No. 1,384,250; July 12; v. 288; p. 255.
Fry, Arthur V., Ridgewood, N. J. Combination check, receipt, and record. No. 1,385,321; July 19; v. 288; p. 556.
Fry, R. M. (See Murphy, Daniel R., assignor.)
Fuel Savings Company. (See Barnhurst, Henry R., assignor.)
Fujita, Kuwakichi, Hazleton, Pa. Burglar-alarm. No. 1,383,924; July 5; v. 288; p. 138.
Fujita, Kuwakichi, Hazleton, Pa. Cooler. No. 1,383,925; July 5; v. 288; p. 138.
Fuldauer, Frederick L., Cleveland, Ohio, assignor to American Stove Company, St. Louis, Mo. Oil-feed controller. No. 1,383,926; July 5; v. 288; p. 138.
Fulkerson, Walter J., San Diego, and G. H. Yahraus, Los Angeles, Calif.; said Fulkerson assignor to said Yahraus. Rotary well-reamer. No. 1,384,016; July 5; v. 288; p. 157.
Fuller, Harry E., Newhall, Iowa. Brick-carrier. No. 1,385,867; July 26; v. 288; p. 744.
Fullington, John H., assignor of one-half to I. Wind, Huntsville, Ala. Wrist-pin. No. 1,384,186; July 12; v. 288; p. 242.
Fulton Company, The. (See Fulton, Weston M., assignor.)
Fulton Iron Works Company. (See Lortz, Louis E., assignor.)
Fulton, Karl H., Pittsburgh, Pa. Producing cellular material. No. 1,385,044; July 19; v. 288; p. 509.
Fulton, Weston M., assignor to The Fulton Company, Knoxville, Tenn. Speed-responsive device. No. 1,384,314; July 12; v. 288; p. 268.
Furber, Frederick M., Revere, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Dispensing device. No. 1,384,127; July 12; v. 288; p. 229.
Furman, William R., Chester, Pa. Pneumatic rivet-passing apparatus. No. 1,385,820; July 26; v. 288; p. 735.
Furst, Herman, Redlands, Calif. Valve for explosion-engines. No. 1,384,058; July 12; v. 288; p. 215.
Gabbe, Herman, Brooklyn, N. Y. Dressing and dyeing moleskins. No. 1,384,446; July 12; v. 288; p. 296.
Gade, Harald F., assignor to Standard Pressed Steel Company, Philadelphia, Pa. Shaft-hanger. No. 1,383,293; July 5; v. 288; p. 7.
Gagarin, Andrew A., assignor to The Gear Grinding Machine Company, Detroit, Mich. Center-bearing. No. 1,384,187; July 12; v. 288; p. 242.
Gair, Robert, Company. (See Jones, R. E., and Von Thien, assignors.)
Gammeter, John R. (See Crook, C. M., and Gammeter.)
Ganglof, Jean, Levallois-Perret, France. Motor-car. No. 1,385,611; July 26; v. 288; p. 668.
Gannett, George B., *et al.* (See Bernhard, Hieronymus, assignor.)
Gantt, Henry L., Roseland, Va. Spark-arrester for tobacco-drying houses. No. 1,383,927; July 5; v. 288; p. 138.
Garbis, Spiro D., Calcutta, British India. Mouthpiece for liquid-receptacles. No. 1,384,315; July 12; v. 288; p. 268.
Gardiner, James, *et al.* (See Waithman, Charles H., assignor.)
Gardner, Charles F. (See Cartwright, Ernest O., assignor.)
Gardner, Charles H., Jr., Oakland, Calif. Agricultural implement. No. 1,383,294; July 5; v. 288; p. 7.
Gardner, Henry A. (See Bielouss, Elias, assignor.)
Gardner, Henry A., and E. Bielouss, Washington, D. C.; said Bielouss assignor to said Gardner. Preparation of drying oils from hydrocarbons. No. 1,384,447; July 12; v. 288; p. 296.
Gardner, Levi S., Detroit, Mich. Flying-machine. No. 1,384,608; July 12; v. 288; p. 330.
Gardon, Ambrolse, Peterson, Saskatchewan, Canada. Insect-trap. No. 1,385,207; July 19; v. 288; p. 534.
Garfield, James R., trustee. (See Stuart, Arthur C., assignor.)
Garner, James B. (See Anderson, J. B., Garner, and Shaner.)
Garrett & Company. (See Smith, B. H., and Eoff, assignors.)
Garrigue, William, & Company. (See Bodman, J. W., and Godfrey, assignors.)
Garwood, William M., assignor to Miller-Saw-Trimmer Company, Pittsburgh, Pa. Beveling device. No. 1,385,782; July 26; v. 288; p. 727.
Garza, Pablo G., San Antonio, Tex. Drier. No. 1,384,906; July 19; v. 288; p. 491.
Gase, Eugene, assignor to Baker-Perkins Manufacturing Corporation, Saginaw, Mich. Baker's proportionate flour feeder and mixer. No. 1,383,798; July 5; v. 288; p. 112.
Gase, George A., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Sheet-metal wheel. No. 1,384,128; July 12; v. 288; p. 230.
Gassett, W. J. (See Dell, Phillip J., Jr., assignor.)
Gassette, Grace, Chicago, Ill. Surgical or orthopedic appliance for the treatment of the ankle. No. 1,383,928; July 5; v. 288; p. 139.
Gaston, Ralph T., Greensboro, N. C. Apparatus for the manufacture of acid phosphate. No. 1,385,126; July 19; v. 288; p. 518.
Gates, Philetus W., Evanston, Ill., assignor to Mumford Molding Machine Company. Molding-machine. No. 1,385,676; July 26; v. 288; p. 706.
Gates, Quincy A. (See Bunnell, W. O., and Gates.)
Gaumont, Leon, Paris, France. Method and apparatus for using dissimilar films. No. 1,385,912; July 26; v. 288; p. 753.
Gausewitz, William H., Minneapolis, Minn., and H. B. Cummings, Prescott, Wis.; said Cummings assignor to said Gausewitz. Closet. No. 1,383,295; July 5; v. 288; p. 8.
Gear Grinding Machine Company, The. (See Gagarin, Andrew A., assignor.)
Geddes, Daniel B., Newark, N. J. Antirattler for windows. No. 1,385,208; July 19; v. 288; p. 535.
Geer, Harry R., Johnstown, Pa. Dial-indicator. No. 1,384,602; July 19; v. 288; p. 451.
Geer, Paul L., Bellevue borough, assignor to Amsler-Morton Company, Pittsburgh, Pa. Muffle-leer construction. No. 1,385,868; July 26; v. 288; p. 744.
Geier, P. A., Company, The. (See Geier, Philip A., assignor.)
Geier, Philip A., assignor to The P. A. Geier Company, Cleveland, Ohio. Dust-receptacle for vacuum cleaning apparatus. No. 1,383,615; July 5; v. 288; p. 74.
Gellman, Hyman, New York, N. Y. Safety-lock for foot-levers. No. 1,384,251; July 12; v. 288; p. 255.
Gem City Stove Manufacturing Company. (See Specht, Adolph A., assignor.)
General American Tank Car Corporation. (See Parks, Ostrander J., assignor.)
General Automatic Scale Company, The. (See Schaper, Henry C., assignor.)
General Chemical Company. (See Merriam, Henry F., assignor.)
General Electric Company. (See Hull, Albert W., assignor.)
General Electric Company. (See Moss, Sandford A., assignor.)
General Electric Company. (See Stone, C. W., and Hobart, assignors.)
General Motorcycle Sales Company. (See Waterman, C. A., and Smith, assignors.)
General Motors Corporation. (See Whitten, Frank A., assignors.)
General Railway Signal Company. (See Dodgson, Frank L., assignor.)
General Railway Signal Company. (See Leake, Richard C., assignor.)
General Rim Company. (See Moyer, Fredellia H., assignor.) (Reissue.)
Gent, Edgar W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrical regulating device. No. 1,383,799; July 5; v. 288; p. 112.

Gentile, Lawrence. (See Winchenbaugh, L. P., and Gentile.)
Georgi, Constantin, Zehlendorf, near Berlin, Germany, assignor to V. B. Moler, Yonkers, N. Y. Regeneration of old or waste rubber. No. 1,385,869; July 26; v. 288; p. 745.
Gereke, Edward G., St. Louis, Mo. Folding cardboard box. No. 1,383,929; July 5; v. 288; p. 139.
Gerlach, Charles G., Spokane, Wash. Emergency automobile-tire. No. 1,385,612; July 26; v. 288; p. 693.
Gernar, Albert, Des Moines, Iowa. Automobile-lift. No. 1,383,800; July 5; v. 288; p. 113.
Gernandt Motor Corporation. (See Gernandt, Waldo G., assignor.)
Gernandt, Waldo G., South Bend, Ind., assignor to Gernandt Motor Corporation, Chicago, Ill. Two-cycle engine. No. 1,385,250; July 19; v. 288; p. 543.
Gernsback, Hugo, New York, N. Y. Submersible amusement device. No. 1,894,750; July 19; v. 288; p. 440.
Gerwig, Stuart L., Rome, N. Y. Rail-clamp. No. 1,383,930; July 5; v. 288; p. 139.
Geschwind, Lucien, assignor to Manufacture de Produits Chimiques du Nord, Etablissements Kuhlmann, Paris, France. Mechanical device for the removal of dust from the gases derived from roasting ores. No. 1,383,715; July 5; v. 288; p. 95.
Gevers, Hermann, Kaukauna, Wis. Process and apparatus for digesting fibrous material. No. 1,385,744; July 26; v. 288; p. 720.
Geyer, Roy M., Picture Palace, Mussoorie, India. Automatic safety control for cinematograph and like machines. No. 1,384,947; July 19; v. 288; p. 480.
Giambrone, Louis, Buffalo, N. Y. Combined coal and gas range. No. 1,384,059; July 12; v. 288; p. 215.
Gibbs, Harry. (See Reynolds, R., and Gibbs.)
Giddens, James F., Morehead City, N. C. Eye-testing device. No. 1,384,252; July 12; v. 288; p. 255.
Gieseler, George A., Cleveland, Ohio. Pneumatic conveying. No. 1,385,870; July 26; v. 288; p. 745.
Giesler, Franklin B., Milwaukee, Wis. Wind-motor. No. 1,383,461; July 5; v. 288; p. 42.
Gilarski, Frank, South Chicago, Ill. Combination-table. No. 1,384,695; July 12; v. 288; p. 348.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric fan. No. 1,33,616; July 5; v. 288; p. 74.
Gilbert, Oliver C., New York, N. Y., and E. W. Adams, East Orange, N. J.; said Adams assignor to said Gilbert. Working metals. No. 1,384,448; July 12; v. 288; p. 296.
Giles, Lloyd and S. H. Woodruff, Los Angeles, Calif. Aerial torpedo. No. 1,384,559; July 12; v. 288; p. 319.
Gilfillan Bros. Smelting & Refining Company. (See Howard, Earl H., assignor.)
Gill, Middleton S., San Francisco, Calif. Piston-ring. No. 1,385,613; July 26; v. 288; p. 693.
Gillette, Herbert B., Grand Rapids, Mich. Dry-kiln truck. No. 1,383,402; July 5; v. 288; p. 43.
Gillette, Howard W., Rochester, N. Y. Game. No. 1,385,677; July 26; v. 288; p. 706.
Gillette, John C., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Applying binding-posts to dry cells. No. 1,385,783; July 26; v. 288; p. 728.
Gillette-Vibber Co., The. (See Vibber, Wheeler H., assignor.)
Gilmore, Willis B., Idaho Springs, Colo. Animal-trap. No. 1,384,890; July 19; v. 288; p. 468.
Gimson Shoe Machinery Co. Limited, The. (See Bagshaw, Charles M., assignor.)
Ginn and Company. (See Greeley, William H., assignor.)
Giot, Henri L. V. D., Le Hâvre, France. Star-transit calculator and indicator for mariners. No. 1,383,296; July 5; v. 288; p. 8.
Giovannetti, Mario U., Bridgeport, Conn. Direction-indicator for automobiles. No. 1,383,931; July 5; v. 288; p. 130.
Girard, Wilfrid J., San Francisco, Calif. Continuous rail. No. 1,384,253; July 12; v. 288; p. 255.
Gisholt Machine Company. (See Elvers, Hans C., assignor.)
Glasheem, John J., *et al.* (See Smith, Frank W., assignor.)
Gleason, Stuart B., Passaic N. J. Artificial fish-bait. No. 1,385,536; July 26; v. 288; p. 677.
Gleason Works. (See Bullock, E. W., and Bryan, assignors.)
Glisoni, Eugene, and E. Von Beck, said Von Beck assignor of his entire right to C. Desboni, New York, N. Y. Locking device. No. 1,383,801; July 5; v. 288; p. 113.
Gloninger, J. H. (See Bilque, George A., assignor.)
Goddard, George N., Newton, and F. A. Smith, Reading, assignors to American Tool & Machine Company, Boston, Mass. Automatic belt-tightener. No. 1,385,942; July 26; v. 288; p. 759.
Goddu, George, Winchester, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-support. No. 1,384,830; July 19; v. 288; p. 456.
Godfrey, Truman M. (See Bodman, J. W., and Godfrey.)
Godlen, Ephraim, assignor of twenty per cent. to E. Southillette, Marlboro, Mass. Edge-trimming machine. No. 1,383,297; July 5; v. 288; p. 8.
Godward, Ernest R., Invercargill, New Zealand. Surface vaporizer attachment for carburetors. No. 1,383,932; July 5; v. 288; p. 139.
Goerner, Gustav W., Boston, Mass., assignor to The Roessler and Hasslacher Chemical Company, Perth Amboy, N. J. Cellulose-acetate solution. No. 1,384,188; July 12; v. 288; p. 242.
Gold, Egbert H., Chicago, Ill. Steam-heating apparatus for railway-cars. No. 1,384,751; July 19; v. 288; p. 440.
Goldberg, Sydney S. (See Hirchwitz, Aaron, assignor.)
Goldberger, Ernest, Detroit, Mich. Draft-rigging. No. 1,383,716; July 5; v. 288; p. 96.
Goldberger, Ernest, Detroit, Mich. Disk clutch. No. 1,383,717; July 5; v. 288; p. 96.
Goldsmith, Nathaniel O., assignor to The Weir Frog Company, Norwood, Ohio. Metal tie. No. 1,384,316; July 12; v. 288; p. 268.
Goldstein, Barnett H., assignor of one-sixth to M. Pugatsky, one-sixth to R. D. Von Rentsch and one-sixth to J. Goldstein, New York, N. Y. Garment-seam. No. 1,384,609; July 12; v. 288; p. 330.
Goldstein, Jacob, *et al.* (See Goldstein, Barnett H., assignor.)
Goldstein, Samuel, New York, N. Y. Automobile-signal casing. No. 1,385,913; July 26; v. 288; p. 753.
Gomber, George W., Conyngham, Pa., assignor, by mesne assignments, to A. W. Drake Manufacturing Company. Insect-killing device. (Reissue.) No. 15,154; July 19; v. 288; p. 563.
Gonzales, Homobono, Paranaque, Philippine Islands. Pencil-tip and penholder. No. 1,383,298; July 5; v. 288; p. 8.
Good, Joseph A., Chicago, Ill. Liquid-dispenser. No. 1,385,127; July 19; v. 288; p. 519.
Goodall, Howard W., Aldan, Pa. Metal-lined hose. No. 1,385,821; July 26; v. 288; p. 735.
Gooding, William S., Chicago, Ill. Compound tool rest and holder for lathes. No. 1,383,299; July 5; v. 288; p. 8.
Goodman, Harry J., Chicago, Ill. Motorcycle-tender. No. 1,383,933; July 5; v. 288; p. 140.
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling device. No. 1,383,802; July 5; v. 28; p. 113.
Goodwin, George S., assignor to W. P. Murphy, Chicago, Ill. End reinforcement for box-cars. No. 1,384,831; July 19; v. 288; p. 457.
Goodwin, Jay L., assignor of one-half to W. Thomas, Stockton, Calif. Bull-gear dust-shield for tractors. No. 1,384,189; July 12; v. 288; p. 242.
Goodyear Tire & Rubber Company, The. (See Landon, Chauncey L., assignor.)
Goodyear Tire & Rubber Company, The. (See Maranville, Alger G., assignor.)
Goodyear Tire & Rubber Company, The. (See Replogle, Mark A., assignor.)
Goodyear Tire and Rubber Company, The. (See Upson, Ralph H., assignor.)
Goodyear's Metallic Rubber Shoe Company. (See Randall, Chester J., assignor.)
Gordon, Claude J., Saginaw, Mich. Toy vehicle. No. 1,383,397; July 5; v. 288; p. 29.
Gorham, Richard C., Kirklin, Ind. Cheese-cutter. No. 1,385,372; July 26; v. 288; p. 643.
Gornjak, Jozef, Denver, Colo. Bird-trap. No. 1,384,610; July 12; v. 288; p. 330.
Gornjak, Jozef, Denver, Colo. Animal-trap. No. 1,384,611; July 12; v. 288; p. 330.
Gorritzen, Michael, Stavanger, Norway. Electric heating-plate. No. 1,384,660; July 12; v. 288; p. 341.
Gottlieb, Herman E., Roselle Park, N. J. Mat. No. 1,384,891; July 19; v. 288; p. 468.
Gottschall, Simon, *et al.* (See Case, William A., assignor.)
Goudis, George, Detroit, Mich. Means for uncurling films or strips. No. 1,385,537; July 26; v. 288; p. 677.
Gould, Aaron P., Northwilkesboro, N. C., assignor to W. C. Meadows Mill Company. Grain-cleaning mechanism. No. 1,383,463; July 5; v. 288; p. 43.
Gould & Eberhardt. (See Zimmermann, William F., assignor.) (Reissue.)
Gould Storage Battery Company. (See Hauns, Charles, assignor.)
Grabler Manufacturing Company, The. (See Honen, James T., assignor.)
Graf, Fredrik, Krokslätt, Sweden. Doffing apparatus for spinning and twisting machine. No. 1,384,449; July 12; v. 288; p. 296.
Graham, Benjamin F., Chicago, Ill. Collapsible grain-door. No. 1,384,190; July 12; v. 288; p. 242.
Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Suction carpet-cleaner. No. 1,384,908; July 19; v. 288; p. 491.
Graham, James H., assignor, by mesne assignments, to The Torrington Company, Torrington, Conn. Carpet-sweeper. No. 1,384,998; July 19; v. 288; p. 492.
Graham, James H., and E. C. Murdick, assignors, by mesne assignments, to The Torrington Company, Torrington, Conn. Carpet-sweeper. No. 1,384,997; July 19; v. 288; p. 491.
Grant, Charles, San Francisco, Calif. Spacing-block. No. 1,385,823; July 26; v. 288; p. 736.

Grant, Frank, Westfield, Mass. Milk-bottle. No. 1,384,129; July 12; v. 288; p. 230.

Grasty, George L., *et al.* (See Brown, Leonard L., assignor.)

Gray, Albert J., and W. Hebern, Oakland, Calif., assignor to Security Auto Lock Co. Automobile-lock. No. 1,383,617; July 5; v. 288; p. 74.

Gray, Charles B., Philadelphia, Pa. Machine for cutting sheet-form material. No. 1,383,618; July 5; v. 288; p. 75.

Gray, Charles B., Philadelphia, Pa. Mechanism for transmitting motion. No. 1,383,619; July 5; v. 288; p. 75.

Gray, Charles B., Philadelphia, Pa. Machine for cutting sheet-form material. No. 1,384,696; July 12; v. 288; p. 349.

Gray, G. A., Company, The. (See Cardullo, Forrest E., assignor.)

Gray, Robert D., New York, N. Y. Apparatus for recording motion and sound. No. 1,384,612; July 12; v. 288; p. 331.

Gray Telephone Pay Station Company, The. (See Long, George A., assignor.)

Greeley, William H., Newton, assignor to Ginn & Company, Boston, Mass. Making double-page multicolor maps. No. 1,383,621; July 5; v. 288; p. 75.

Greeley, William H., Newton, assignor to Ginn and Company, Boston, Mass. Map-plate. No. 1,383,622. July 5; v. 288; p. 76.

Green, Charles A., St. Louis, Mo., assignor of one-half to J. E. Swanson, Boston, Mass. Work supporting and guiding device. No. 1,385,538; July 26; v. 288; p. 677.

Green Engineering Company. (See Poppenhusen, H. A., and Strong, assignors.)

Green, Samuel G., U. S. Army. Shoulder-rest for guns. No. 1,384,386; July 12; v. 288; p. 283.

Greenberg, Harry S., Danville, Va. Dining-service apparatus. No. 1,384,191; July 12; v. 288; p. 242.

Greenburg, Joseph, Boston, Mass. Window. No. 1,385,539; July 26; v. 288; p. 678.

Greenfield, Edwin T., Kiamesha, and J. G. V. Lang, assignors to Greenfield Paper Bottle Company, New York, N. Y. Apparatus for contracting rings. No. 1,384,752; July 19; v. 288; p. 440.

Greenfield Paper Bottle Company. (See Greenfield, E. T., and Lang, assignors.)

Greeson, Merton H., Tampa, Fla. Ball-cock. No. 1,384,450; July 12; v. 288; p. 296.

Greenwood, Albert, Knoxville, Tenn. Illuminated display apparatus. No. 1,384,753; July 19; v. 288; p. 440.

Greiner, Ernst W., New Castle, Pa. Drill-hole shooting-plug. No. 1,385,943; July 26; v. 288; p. 759.

Grenagle, James B., Catonsville, assignor to The Rare Metals Reduction Company, Baltimore, Md. Metal alloy and producing the same. No. 1,385,972; July 19; v. 288; p. 507.

Grider, James R., Roachdale, Ind. Vehicle-dump. No. 1,383,934; July 5; v. 288; p. 140.

Grieshaber, Hugo E., Groton, Conn., assignor to Electric Boat Company. Exhaust system for submarine vessels. No. 1,383,398; July 5; v. 288; p. 29.

Griffin Button Company, The. (See Griffing, Bruce N., assignor.)

Griffing, Bruce N., assignor to The Griffin Button Company, Shelton, Conn. Machine for reversing small articles. No. 1,385,000; July 19; v. 288; p. 492.

Griffith, Anna. (See Griffith, William P., and A.)

Griffith, Thomas H., Cincinnati, Ohio. Bed. No. 1,385,045; July 19; v. 288; p. 500.

Griffith, William P., and A., Minneapolis, Minn. Washboard. No. 1,385,442; July 26; v. 288; p. 658.

Grimm, Richard, and E. F. Rhode, Two Rivers, Wis. Cutting mechanism. No. 1,384,060; July 12; v. 288; p. 215.

Gross, Mones, Berwick, Pa. Article-holder. No. 1,385,443; July 26; v. 288; p. 658.

Grossman, Harry, New York, N. Y. Belt-buckle. No. 1,384,061; July 12; v. 288; p. 215.

Grotta, Bennett. (See Cook, R. M., and Grotta.)

Grover, Albert D., New York, N. Y. Tuning-peg for stringed musical instruments. No. 1,384,459; July 12; v. 288; p. 298.

Grover, Albert D., New York, N. Y., assignor to Autosales Corporation. Vending-machine. No. 1,385,822; July 26; v. 288; p. 735.

Groves, James E., Boston, Mass. Machine for feeding pellets into containers. No. 1,383,623; July 5; v. 288; p. 76.

Grunwald, Albert C., assignor to Precision Metal Workers, Chicago, Ill. Electrical connection. No. 1,383,718; July 5; v. 288; p. 96.

Grupe, William F., Hudson Heights, N. J. Weaving apparatus. No. 1,385,444; July 26; v. 288; p. 658.

Guhr, Charles A., Chicago, Ill. Bank-burglar protective device. No. 1,384,613; July 12; v. 288; p. 331.

Guild, George R., U. S. Army, assignor of one-half to C. T. Payton, St. Louis, Mo. Relay. No. 1,384,948; July 19; v. 288; p. 480.

Gulley, Henri A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Rotation means for percussive tools. No. 1,384,661; July 12; v. 288; p. 341.

Gulil, Andrew J., Winifred, Mont. Tobacco-receptacle. No. 1,383,935; July 5; v. 288; p. 140.

Gulnzburg, Victor, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Flotation device. No. 1,383,624; July 5; v. 288, p. 76.

Guise, William E., Rittman, Ohio. Boiler-feed-water regulator. No. 1,383,936; July 5; v. 288; p. 140.

Gulbransen, Axel G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Action-bracket. No. 1,385,076; July 19; v. 288; p. 507.

Gulbransen-Dickinson Company. (See Gulbransen, Axel G., assignor.)

Gunn, Charles H., Oakland, Calif. Extension-table. No. 1,385,445; July 26; v. 288; p. 658.

Gunn, Charles H., Oakland, Calif. Combination bed and table. No. 1,385,446; July 26; v. 288; p. 658.

Guthrie, Laurence B., Miami, Okla. Turbine. No. 1,383,937; July 5; v. 288; p. 140.

Gutweiler, Joseph L., and F. W. Kublin, St. Louis, Mo. Trolley. No. 1,385,678; July 26; v. 288; p. 707.

Guy, Albert E., U. S. Army. Gun-tube and manufacturing same. No. 1,384,718; July 12; v. 288; p. 353.

Guyver, Frank H., Stratford-on-Avon, England. Oil-indicator for motor-vehicles. No. 1,385,128; July 19; v. 288; p. 519.

Guyon, Walter S., Brooklyn, N. Y. Street-sweeper. No. 1,383,625; July 5; v. 288; p. 76.

Guyot, Walter E., Attleboro, Mass. Buckle. (Reissue.) No. 15,138; July 5; v. 288; p. 161.

Gwinn, Joseph M., Jr., New Orleans, La. Protractor or drafting implement. No. 1,383,803; July 5; v. 288; p. 113.

Gwynn, Albert R. (See Horn, Ella, assignor.)

Haack, John, Portland, Oreg. Electric lantern. No. 1,384,017; July 5; v. 288; p. 157.

Habenicht, August F., Tinley Park, Ill. Acetylene-gas and pressure generator. No. 1,383,464; July 5; v. 288; p. 43.

Hablützel-Frei, Heinrich, Zurich, Switzerland. Treating hanks of yarn with liquid. No. 1,383,300; July 5; v. 288; p. 9.

Hacker, Horace W., Chicago, Ill. Mounted printing-plate. No. 1,385,824; July 26; v. 288; p. 736.

Hackett, William, assignor of one-half to S. W. Band, Oakland, Calif. Locking-bolt. No. 1,385,001; July 19; v. 288; p. 492.

Haerry, John H., Milwaukee, Wis. Filter and filtering. No. 1,384,754; July 19; v. 288; p. 440.

Hageman, Nelson R., Reno, Nev. Chemical-retainer for sewer-pipes. No. 1,383,938; July 5; v. 288; p. 141.

Haggard & Marcusson Co. (See Anderson, William B., assignor.)

Hagley, Edward O. (See Hagley, Wilbert C. and E. O.)

Hagley, Wilbert C. and E. O., Huntington, W. Va. Lid-operating device. No. 1,384,254; July 12; v. 288; p. 255.

Hale, Harry M., Duquesne, Pa. Dirigible headlight. No. 1,384,560; July 12; v. 288; p. 319.

Haley, Charles B., Oklahoma, Okla. Mineral-oil emulsion. No. 1,384,460; July 12; v. 288; p. 298.

Hall, Akos J., Cleveland, Ohio. Stair structure. No. 1,385,209; July 19; v. 288; p. 535.

Hall, Athelstan A., London, England. Wireless signaling apparatus. No. 1,384,523; July 12; v. 288; p. 311.

Hall, Chalmers G., Washington, D. C. Drift-compensating device for airships. No. 1,385,784; July 26; v. 288; p. 728.

Hall, Chalmers G., Washington, D. C. Drift-compensating device. No. 1,385,825; July 26; v. 288; p. 736.

Hall, George S., Chico, Calif. Radiator-testing apparatus. No. 1,384,614; July 12; v. 288; p. 331.

Hall, John A., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,383,804; July 5; v. 288; p. 114.

Hall, John A., Bayside, assignor to Western Electric Company, Incorporated, New York, N. Y. Party-line metering system for telephone-exchanges. No. 1,383,805; July 5; v. 288; p. 114.

Hall, John W., Feltham, England. Mechanism for converting rotary to reciprocating movement. No. 1,385,002; July 19; v. 288; p. 492.

Hall, Joseph P., Sanford, Fla. File-basket. No. 1,384,755; July 19; v. 288; p. 441.

Hall, Leslie S., Brantford, Ontario, Canada. Cutter-head. No. 1,384,524; July 12; v. 288; p. 312.

Halladay, Lewis P., Decatur, Ill. Bumper-bracket. No. 1,385,679; July 26; v. 288; p. 707.

Hallam, Walter E., Pawtucket, R. I. Lingerie-clasp. No. 1,385,614; July 26; v. 288; p. 694.

Hallock-Greenewalt, Mary, Philadelphia, Pa. Notation for indicating lightning effects. No. 1,385,944; July 26; v. 288; p. 759.

Hallwood, Henry S., assignor to The City National Bank, Columbus, Ohio. Cash-register. No. 1,385,540; July 26; v. 288; p. 678.

Halset, Christ, assignor to Consolidated Wafer Company, Chicago, Ill. Ice-cream-cone machine. No. 1,384,461; July 12; v. 288; p. 299.

Halseth, Henry E., Virginia, Minn. Collar-holder. No. 1,384,832; July 19; v. 288; p. 457.

Halverson, Herman G., Los Angeles, Calif. Fare-recording and transfer-issuing machine. No. 1,384,130; July 12; v. 28; p. 230.

Halvorsen, Ole G., Chicago, Ill., F. S. Hudson, Kansas City, Mo., and E. G. Rhoads, Oak Park, assignors to Winslow Boiler & Engineering Company, Chicago, Ill. Turner. No. 1,383,719; July 5; v. 288; p. 96.

Hambuechen, Carl, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Carbon-cutting machine. No. 1,384,756; July 19; v. 288; p. 441.

Hamer, John F., Pukwana, S. D. Vaporizer. No. 1,385,680; July 26; v. 288; p. 707.

Hamilton, Baxter P. (See Parker, R. D., and Hamilton.)

Hamilton Caster & Manufacturing Company, The. (See Kalberer, G. J., and Weigel, assignors.)

Hamilton, William E., Columbus, Ohio. Transporting Coal. No. 1,385,447; July 26; v. 288; p. 659.

Hammer, George, Oakland, Calif. Stove. No. 1,385,541; July 26; v. 288; p. 678.

Hammond, Charles L., assignor of one-third to W. Seller, Kokomo, Ind. Valve. No. 1,385,681; July 26; v. 288; p. 707.

Hammond, James C., Jacksonville, Fla. Portable bath-house. No. 1,385,615; July 26; v. 288; p. 694.

Hampton, Leon N., New York, N. Y. Lock. No. 1,384,561; July 12; v. 288; p. 319.

Hanauer, Albert M. (See Bennett, George R., assignor.)

Hancock, William E., Tulsa, Okla. Oil well mechanism. No. 1,384,525; July 12; v. 288; p. 312.

Hand, Jay A. (See Pelton, C. R., and Hand.)

Hand, Thomas W., assignor to Davy Brothers, Limited, Sheffield, England. Steam hydraulic intensifier. No. 1,383,899; July 5; v. 288; p. 29.

Handy Furniture Manufacturing Company. (See Topor, Jacob, assignor.)

Hannotte, Honore, assignor to L. Wilke, Morsemere, N. J. Theftproof receiver-box. No. 1,384,317; July 12; v. 288; p. 269.

Hansen, Charles C., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Double core-barrel for core-drills. No. 1,383,939; July 5; v. 288; p. 141.

Hansen-Ellehammer, Jacob C., Copenhagen, Denmark. Automatic valve mechanism. No. 1,384,462; July 12; v. 288; p. 299.

Hansen, Oswald H., Port Washington, Wis. Chair-base. No. 1,385,348; July 19; v. 288; p. 562.

Hansen, Svend, Brooklyn, N. Y., assignor to Birmingham Iron Foundry, Derby, Conn. Roll-grinder. No. 1,385,077; July 19; v. 288; p. 508.

Hansgirg, Fritz, Gratz, Styria, Austria. Manufacturing perylen. No. 1,384,615; July 12; v. 288; p. 331.

Hanson, Oscar W., assignor of one-half to J. J. Sullivan, Salina, Kans. Piston-ring. No. 1,384,131; July 12; v. 288; p. 230.

Hanson, Oscar W., Salina, Kans. Universal joint. No. 1,384,255; July 12; v. 288; p. 256.

Happle, John, Syracuse, N. Y. Level. No. 1,384,062; July 12; v. 288; p. 216.

Haralson, Grover C., and W. E. Turner, Atlanta, Ga. Filling or thread holder for looms. No. 1,385,914; July 26; v. 288; p. 753.

Hardesty, Rudd, Denver, Colo. Perpetual automobile license-plate. No. 1,384,949; July 19; v. 288; p. 481.

Hardey, Manuel, San Francisco, Calif. Screwdriver. No. 1,385,815; July 26; v. 288; p. 754.

Hardy, Harold J., Cleveland, Ohio. Machine for bending rods, bars, or the like. No. 1,385,542; July 26; v. 288; p. 678.

Hardy, John R., Portland, Oreg. Convertible table. No. 1,385,046; July 19; v. 288; p. 500.

Hargrove, Orlando P., Wayland, N. Y. Bumper for looms and the like. No. 1,383,940; July 5; v. 288; p. 141.

Harley, Leon J., Jr. (See Lasarea, George C., assignor.)

Harman, Jacob A., Peoria, Ill. Derrick or excavating-machine. No. 1,385,543; July 26; v. 288; p. 679.

Harman, Robert, York, assignor to T. Cooke & Sons, Limited, Bishopshill, York, England. Work-holder for grinding and the like machines. No. 1,383,941; July 5; v. 288; p. 141.

Harmon, George H., Inc., *et al.* (See Barrows, Robert Y., assignor.)

Harper, Edward W., assignor of one-third to C. H. Kelly, Savannah, Ga. Automatic valve. No. 1,384,950; July 19; v. 288; p. 481.

Harrah, Hillis A., Pomona, assignor of one-half to L. T. Leimbach, Rosedale, Kans. Tractor. No. 1,384,951; July 19; v. 288; p. 481.

Harrah, Hillis A., Kansas City, Mo., assignor of one-half to L. T. Leimbach, Rosedale, Kans. Tractor. No. 1,384,952; July 19; v. 288; p. 481.

Harrell, Annie L., Seattle, Wash. Motor. No. 1,384,256; July 12; v. 288; p. 356.

Harris, Archer H., Barberton, assignor of one-half to E. A. Armstrong, Akron, Ohio. Tire-supporting device for tire-molds. No. 1,384,463; July 12; v. 288; p. 299.

Harris Automatic Press Company, The. (See Pritchard, Carl G., assignor.)

Harris, James W., Turberville, S. C. Harrow. No. 1,383,942; July 5; v. 288; p. 142.

Harris, William, Cambridge, Ohio. Rolling-pin. No. 1,385,916; July 26; v. 288; p. 754.

Harris, William K., assignor to Salem Manufacturing Company, Salem, N. J. Linoleum or like printing machine. No. 1,384,024; July 5; v. 288; p. 159.

Harris, William L., New York, N. Y. Metallic packing. No. 1,383,948; July 5; v. 288; p. 142.

Harris, William T., Harrodsburg, Ky. Brake. No. 1,385,544; July 26; v. 288; p. 679.

Harrison, William E., Union City, Ind. Placard-sustaining means. No. 1,384,757; July 19; v. 288; p. 441.

Hart & Hegeman Manufacturing Company, The. (See Stirling, Clarence C., assignor.)

Hart, Lewis B., Plaquemine, La. Surgical appliance. No. 1,383,944; July 5; v. 288; p. 142.

Hartel, Henry W., Philadelphia, Pa. Cut-out for internal-combustion engines. No. 1,383,400; July 5; v. 288; p. 30.

Hartman, Ferdinand Q., Danville, Pa. Thread-guide and attachment. No. 1,385,047; July 19; v. 288; p. 501.

Harvey, Corbon L., St. Louis, Mo. Loose-leaf binder. No. 1,385,745; July 26; v. 288; p. 720.

Harward, John H., Lawrence, Mass. Door-buffer. No. 1,385,448; July 26; v. 288; p. 659.

Hastings, Odie L. (See Iles, E. J., and Hastings,) (Reissue.)

Hatch, Paul F. (See Lunt, F. L., and Hatch.)

Hatcher, Ernest C., Finchley, and T. Rooke, Hampstead, London, England. Reduction-gear. No. 1,384,662; July 12; v. 28; p. 342.

Hatfield, Chester P., Lebanon, Ohio. Protective covering for storage-battery cells. No. 1,384,063; July 12; v. 288; p. 216.

Hauck, Arthur E., deceased, New York, N. Y.; A. H. Stein, executor. Low-pressure oil-burner with an attached combustion-box. No. 1,383,720; July 5; v. 288; p. 96.

Haunz, Charles, Lancaster, N. Y., assignor to Gould Storage Battery Company, Starting means. No. 1,385,210; July 19; v. 288; p. 535.

Hawken, Charles E. H. (See Westgate, J., and Hawken.)

Hawkins, Charles R. (See Smith, Frank L., and Hawkins.)

Hawkins, William E., Amityville, N. Y. Socket-shell for incandescent electric lamps. No. 1,383,626; July 5; v. 288; p. 76.

Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-Roof. No. 1,385,616; July 26; v. 288; p. 694.

Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Car-roof. No. 1,385,617. July 26; v. 288; p. 694.

Hawksworth, David W., assignor to Hutchins Car Roofing Company, Detroit, Mich. Running-board saddle. No. 1,385,618; July 26; v. 288; p. 694.

Hawley, Lee F., Madison, Wis., assignor to United States of America. Producing dense absorbent charcoal. No. 1,385,826; July 26; v. 288; p. 736.

Hawthorn, R. & W., Leslie & Company, *et al.* (See Armstrong, Robert B., assignor.)

Haynes, Roy W., assignor to Penn Rivet Corporation, Philadelphia, Pa. Sheet-metal rivet. No. 1,383,806; July 5; v. 288; p. 114.

Haynie, John W., St. Louis, Mo. Diving-tube. No. 1,385,682; July 26; v. 288; p. 707.

Hays, Clarence J. (See Curtis, Arthur R., assignor.)

Hayt, William A. (See Key, James F., assignor.)

Heacox, Ross D., Washington, D. C. Repairing scored cylinders. No. 1,385,334; July 19; v. 288; p. 559.

Healy, John S., Brooklyn, N. Y. Gas-burning appliance. No. 1,385,545; July 26; v. 288; p. 679.

Heath, Wilfrid P., Chicago, Ill. Making butter. No. 1,384,318; July 12; v. 288; p. 269.

Heath, Wilfrid P., Chicago, Ill. Manufacturing candy. No. 1,384,319; July 12; v. 288; p. 269.

Heberling, John, Rochester, N. Y. Belt-buckle. No. 1,385,945; July 26; v. 288; p. 759.

Hebern, William. (See Gray, A. J., and Hebern.)

Heckenbach, Joseph, assignor to Quality Hardware & Machine Company, Chicago, Ill. Grease-cup. No. 1,385,373; July 26; v. 288; p. 643.

Hedges, Frank. (See Diefenbargh, William, assignor.)

Heider, Henry J., assignor to Heider Manufacturing Company, Carroll, Iowa. Coaster-wagon. No. 1,385,946; July 26, v. 288; p. 759.

Heider Manufacturing Company. (See Heider, Henry J., assignor.)

Heine, Christian F., Hinckley, Ill. Primary-instruction board. No. 1,384,192; July 12; v. 288; p. 242.

Heine, Joseph F. (See Rolle, K., and Heine.)

Heinig, Oscar H., Chicago, Ill. Spool and the like. No. 1,384,562; July 12; v. 288; p. 320.

Heinle, Rudolph B., Brooklyn, N. Y. Collapsible garment-hanger. No. 1,385,449; July 26; v. 288; p. 659.

Heise, Roscoe S., assignor to The Miami Cycle & Mfg. Co., Middletown, Ohio. Cycle construction. No. 1,385,129; July 19; v. 288; p. 519.

Helsing, Raymond A., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Power modulation for radiotransmission. No. 1,383,807; July 5; v. 288; p. 114.

Heltmann, Frank J., et al. (See Weier, Jacob J., assignor.)

Hemleb, Martin, Elizabeth, N. J., assignor to The Singer Manufacturing Company. Driving and controlling mechanism for power operated machines. No. 1,384,464; July 12; v. 288; p. 299.

Hemphill Company. (See Bosworth, George P., assignor.)

Henderson, Carl, Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Inking mechanism for printing-presses. No. 1,383,945; July 5; v. 288; p. 142.

Hendricks, John D., Miami, Fla. Implement for forming grooves in plastic masonry. No. 1,383,301; July 5; v. 288; p. 9.

Henry, Edmond, Paris, France. Rotary pump with sliding plates. No. 1,385,619; July 26; v. 288; p. 694.
Henry, John W. (See Holbrook, Willie L., assignor.)
Hepburn, George A. W. (See Dickinson, H., and Hepburn.)
Herbert, Clarence C., Lincoln, Nebr. Electric water-heater. No. 1,384,719; July 12; v. 288; p. 353.
Herbold, Philip, Galion, Ohio. Folding-seat bed. No. 1,384,833; July 19; v. 288; p. 457.
Herman, Bernadette M. (See Herman, Joseph F., assignor.)
Herman, Joseph F., assignor to B. M. Herman, Washington, D. C. Antiskidding chain for wheels. No. 1,383,628; July 5; v. 288; p. 77.
Herr, Herbert T., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Geared-power-developing unit. No. 1,384,834; July 19; v. 288; p. 457.
Herr, Park A., Hillside, N. J., assignor to the Singer Manufacturing Company. Thread-controlling device for sewing-machines. No. 1,385,048; July 19; v. 288; p. 501.
Herring, John A., Okmulgee, Okla. Inclinometer. No. 1,383,946; July 5; v. 288; p. 142.
Herz, Alfred, Chicago, Ill. Means for regulating a system subject to large intermittent loads. No. 1,385,170; July 19; v. 288; p. 527.
Hess, Meyer S., Baltimore, Md. Making shoe-filler. No. 1,383,947; July 5; v. 288; p. 142.
Hettinger, Julius E., Chicago, Ill. Stove. No. 1,384,064. July 12; v. 288; p. 216.
Hewitt, Daniel A., Thomasville, N. C. Torpedo-removing attachment for hand-cars and the like. No. 1,385,003; July 19; v. 288; p. 492.
Hewitt, Peter C., Ringwood Manor, N. J. Vacuum electric apparatus. No. 1,384,953; July 19; v. 288; p. 481.
Hey, Harry, Melbourne, Victoria, Australia. Recovery of lead and silver from sulfid ores and metallurgical products. No. 1,384,465; July 12; v. 288; p. 299.
Hickson, John M., and D. A. Young, Portland, Oreg. Paste bait. No. 1,384,320; July 12; v. 288; p. 269.
Hidy, Alfred, Jeffersonville, assignor of one-half to J. H. Hidy, Urbana, Ohio. Hog box. No. 1,385,871; July 26; v. 288; p. 745.
Hidy, John H. (See Hidy, Alfred, assignor.)
Highway Trailer Company. (See Clement, Charles G., assignor.)
Higley, Herman W., assignor of one-half to C. H. Fowler, New York, N. Y. Safety-razor-blade holder. No. 1,383,627; July 5; v. 288; p. 77.
Hildebrand, Reinhard, Webster Groves, Mo. Bearing. No. 1,385,683; July 26; v. 288; p. 707.
Hildebrand, William R., Chicago, Ill. Radiator. No. 1,385,450; July 26; v. 288; p. 659.
Hildebrandt, Frank P., Saugerties, N. Y. Folding-machine. No. 1,384,563; July 12; v. 288; p. 320.
Hilgers, John, Binghamton, N. Y. Limb-straightening device. No. 1,384,257; July 12; v. 288; p. 256.
Hill, Adam. (See Wareing, J., and Hill.)
Hill, Roy L., and A. J. Strane, Tamaqua, Pa., assignors to Atlas Powder Company, Wilmington, Del. Explosive compound. (Reissue.) No. 15,155; July 19; v. 288; p. 563.
Hiller, Nicolai H., Carbondale, Pa. Condenser. No. 1,358,827; July 26; v. 288; p. 736.
Hills, Burton U., Chicago, Ill. Automatic feeding device for graphite or the like. No. 1,384,892; July 19; v. 288; p. 469.
Hinchman, George N., Webster Groves, assignor to Alvey Manufacturing Company, St. Louis, Mo. Feeding mechanism for conveyers. No. 1,384,193; July 12; v. 288; p. 243.
Hinckley, Augustus C., Pocatello, Idaho. Signal-lantern for locomotives. No. 1,384,387; July 12; v. 288; p. 283.
Himes Cohen Tractor Co. (See Himes, Walter H., assignor.)
Himes, Walter H., assignor to Himes Cohen Tractor Co., Grove City, Pa. Variable-speed gearing. No. 1,384,458; July 19; v. 288; p. 441.
Himmel, Solomon. (See Hormes, William T., assignor.)
Hines, Edwin G., Drums, and C. S. Myers, Hazleton, Pa.; said Myers assignor to Hines. Towing device. No. 1,384,835; July 19; v. 288; p. 457.
Hirschwitz, Aaron, assignor of one-half to S. S. Goldberg, New Orleans, La. Collapsible portable hat-box. No. 1,384,065; July 12; v. 288; p. 216.
Hirt, Joseph F., Chicago, Ill. Dry-kiln. No. 1,385,451; July 26, v. 288; p. 659.
Hissong, Joseph H., Bartlesville, Okla. Automobile-locking device. No. 1,384,697; July 12; v. 288; p. 349.
Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Surface-plate. No. 1,383,629; July 5; v. 288; p. 77.
Hoagland, Frank O., assignor to The Bilton Machine Tool Company, Bridgeport, Conn. Combined tool-holder and cutter. No. 1,383,630; July 5; v. 288; p. 77.
Hobart, Henry M. (See Stone, C. W., and Hobart.)
Hoch, Joseph. (See Wadler, Wilhelm, assignor.)
Hodges, Jesse E., Covington, Ky. Adjustable strut. No. 1,385,546; July 26; v. 288; p. 679.
Hoe, R., and Co. (See Wood, W. M., and Reynolds, assignors.)
Hofer, Alfred H., Dayton, Ohio, and L. T. Wickey, Los Angeles, Calif. Steering mechanism. No. 1,385,785; July 26; v. 288; p. 728.
Hoffman, Carl, Allentown, Pa. Lock. No. 1,383,631; July 5; v. 288; p. 77.
Hoffman, Carl, Allentown, Pa. Automobile-signal. No. 1,383,632; July 5; v. 288; p. 77.
Hoffman, Felix, Newport News, Va. Liner-puller. No. 1,385,452; July 26; v. 288; p. 660.
Hoffman, John, Port Huron, Mich. Vehicle-wheel. No. 1,385,171; July 19; v. 288; p. 527.
Hoffman, Joseph K., *et al.* (See Myers, Jacob S., assignor.) (Reissue.)
Hoffman, Leon F., Franklin, Pa., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Ignition device for internal-combustion motors. No. 1,384,321, July 12; v. 288; p. 269.
Hoffmeyer, Conrad M., Stratford, Ontario, Canada. Excavating-machine. No. 1,385,822; July 19; v. 288; p. 557.
Hogan, William A., Danville, Va. Cloth-guiding device for cloth-finishing machines. No. 1,385,746; July 26; v. 288; p. 720.
Hogue, Charles L., Oakland, Calif. Eyeglass-mounting. No. 1,385,828; July 26; v. 288; p. 737.
Hogue, Oliver D., Brookline, Mass., assignor to G. H. Maxwell, Phoenix, Ariz. Shoe-bottom-filling machine. No. 1,385,486; July 26; v. 288; p. 667.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon-vibrator. No. 1,383,540; July 5; v. 288; p. 58.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Ribbon-vibrator. No. 1,385,374; July 26; v. 288; p. 643.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Automatic ribbon-reverse. No. 1,385,547; July 26; v. 288, p. 679.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Automatic ribbon-reverse. No. 1,385,548; July 26; v. 288; p. 680.
Hokanson, Otto A., assignor to Woodstock Typewriter Company, Woodstock, Ill. Typewriter mechanism. No. 1,385,549; July 26; v. 288; p. 680.
Hoke, Sam W., Palisade, N. J. Jeweler's torch. No. 1,384,954; July 19; v. 288; p. 482.
Holbrook, Margaret, administratrix. (See Holbrook, Willie L.)
Holbrook, Willie L., deceased, Seaside; M. Holbrook, administratrix, assignor to J. W. Henry, Portland, Oreg. Waffle-mold. No. 1,385,829; July 26; v. 288; p. 737.
Holland, Luther W., Pleasant Hill, Mo. Latch. No. 1,383,302; July 5; v. 288; p. 9.
Holland-Letz, Lud, Oak Park, Ill., assignor, by mesne assignments, to International Harvester Company. Hemp harvesting and spreading machine. No. 1,385,917; July 26; v. 288; p. 754.
Holm, Sven N., Dorchester, Mass. Mixing-valve. No. 1,384,132; July 12; v. 288; p. 231.
Holman, James A., Salida, Colo. Coffee-urn. No. 1,385,453; July 26; v. 288; p. 660.
Holmes, Ernest D., Athens, Ga. Automatic stop for milking-machines. No. 1,385,049; July 19; v. 288; p. 501.
Holoubek, Joseph. (See Mesek, John F., assignor.)
Holsclaw, Marion B. (See Price, Eri M., assignor.)
Holy, George H. F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Locomotive No. 1,384,466; July 12; v. 288; p. 300.
Homan, John G., assignor to Electrothermal Company, Steubenville, Ohio. Bandage. No. 1,384,467; July 12; v. 288; p. 300.
Homan, Ralph C., Chino, Calif. Watch-charm. No. 1,385,454; July 26; v. 288; p. 660.
Honen, James T., assignor to The Grabler Manufacturing Company, Cleveland, Ohio. Coupling. No. 1,383,303; July 5; v. 288; p. 9.
Hood, Houston P., San Francisco, Calif. Shock-absorber. No. 1,358,872; July 26; v. 288; p. 745.
Hood Tractor Company. (See Lind, Theodore E., assignor.)
Hooke, Arthur E., Birmingham, England. Power driving mechanism for canal and other barges. No. 1,385,130; July 19; v. 288; p. 519.
Hooker, Charles J., and B. Roberts, Fort Lupton, Colo. Bean-snipping machine. No. 1,385,550; July 26; v. 288; p. 680.
Hooker Electrochemical Company. (See Ralston, Oliver C., assignor.)
Hoopes, Russell, West Chester, Pa. Wheel. No 1,384,194; July 12; v. 288; p. 243.
Hoornbeek, Lodewyck, Newark, N. J., assignor to J. J. Fields, 3d, New York, N. Y. Electrodeposition of non-metallic bodies. No. 1,384,018; July 5; v. 288; p. 158.
Hopedale Manufacturing Company. (See Northrop, Jonas, assignor.)
Horine, Jarrett W., Milwaukee, Wis. Muffler-cut-out valve. No. 1,384,803; July 19; v. 288; p. 469.
Horlick, Arnold A., Milwaukee, Wis. Beverage material and making same. No. 1,384,894; July 19; v. 288; p. 469.
Hormes, William T., Govans, assignor to S. Himmel, Baltimore, Md. Display-rack. No. 1,385,375; July 26; v. 288; p. 644.
Horn, Ella, Rifle, Colo., assignor of forty-nine one-hundredths to A. R. Gwynn, Los Angeles, Calif. Glare-shade for automobiles. No. 1,385,131; July 19; v. 288; p. 519.
Horn, William, Oneonta, N. Y. Buckle. No. 1,385,323; July 19; v. 288; p. 557.
Horton, Bryson D., Detroit, Mich. Center stop and outside lock-off for electrical switches. No. 1,383,541; July 5; v. 288; p. 58.

Horton, Bryson D., Detroit, A. P. Ball, Royal Oak, and F. Zenker, Highland Park, assignors to Detroit Fuse & Mfg. Company, Detroit, Mich. Electrical switch. No. 1,383,808; July 5; v. 288; p. 114.
Houck, Frank A., Ketchikan, Alaska. Power-gurdy. No. 1,384,895; July 19; v. 288; p. 469.
Houston, Hugh E., Wichita Falls, Tex. Traction device. No. 1,383,948; July 5; v. 288; p. 143.
Howard, Charles H., Saugus, assignor to Paper Products Machine Company, Boston, Mass. Paper tube and container. No. 1,383,809; July 5; v. 288; p. 113.
Howard, Earl H., assignor to Gilfillan Bros. Smelting & Refining Company, Los Angeles, Calif. Spotlight. No. 1,384,896; July 19; v. 288; p. 469.
Howard, Ernest S., Red Bank, N. J. Auxiliary tread element for vehicle-wheels. No. 1,385,918; July 26; v. 288; p. 754.
Howard, Frank M., *et al.* (See Dungan, John E., assignor.)
Howard, John A., West Brighton, N. Y., assignor to Camward Engineering Co., Inc. Electric stove. No. 1,383,949; July 5; v. 288; p. 143.
Howe, Albert L., Alloa, Scotland, assignor to William Angus & Company (Scotland), Limited, Menstrie, North Britain. Writing-desk. No. 1,385,004; July 19; v. 288; p. 493.
Howe, George D., Davison, Mich. Internal-combustion engine. No. 1,384,133; July 12; v. 288, p. 231.
Howe, William L., Overland, Mo. Windshield attachment or deflector for automobiles and the like. No. 1,384,803; July 19; v. 288; p. 451.
Howell, Delta B., Chicago, Ill., assignor of one-half to R. Y. Cliff, Sebring, Ohio. Saggar. No. 1,384,468 July 12; v. 288; p. 300.
Howell, Henry M., assignor of seven and one-half per cent. to C. Schultze, seven and one-half per cent. to R. Downs, seven and one-half per cent. to J. E. Doughtie, seven and one-half per cent. to S. C. Blackmon, seven and one-half per cent. to A. King, fifteen per cent. to L. H. Krickel, and thirty-five per cent. to S. Kaplan, Monroe, La. Demountable rim. No. 1,383,810; July 5; v. 288; p. 115.
Howell, Israel G., assignor of one-half to A. Perey, Trenton, N. J. Sprinkler attachment for vehicles. No. 1,385,684; July 26; v. 288; p. 708.
Howes, Albert, Santa Cruz, Calif. Shock-absorber for motor-vehicles. No. 1,385,551; July 26; v. 288; p. 680.
Howland Bag and Paper Company. (See Smith, Charles F., assignor.)
Howland, Fred, Nogales, Ariz. Liquid and gaseous fuel burner. No. 1,384,955; July 19; v. 288; p. 482.
Hrib, George, Simpson, W. Va. Aeroplane. No. 1,385,786; July 26; v. 288; p. 728.
Hryniewich, Dmitro, Livermore, Pa. Railway-gate. No. 1,385,787; July 26; v. 288; p. 728.
Hubbard, Henry E., Oak Park, assignor to Addressograph Company, Chicago, Ill. Making curved printing-plates. No. 1,384,897; July 19; v. 288; p. 469.
Hudson, Finn S. (See Halvorsen, O. G., Hudson, and Rhoads.)
Hudson, George J., Dallas, Tex. Collar fastener and supporter. No. 1,384,956; July 19; v. 288; p. 482.
Huff Process Company. (See Stephens, James C., assignor.)
Hughes, David D. (See Hughes, T. B., Davis, and Hughes.)
Hughes, Harry F. (See Klocke, William H., assignor.)
Hughes, Henry A., London, and T. Y. Baker, Slough, England. Sextant. No. 1,383,950; July 5; v. 288; p. 143.
Hughes, Lionel W., London, England. Packing-case. No. 1,383,401; July 5; v. 288; p. 30.
Hughes, Thomas B., W. J. Davis, and D. D. Hughes, Granite City, Ill. Feeding mechanism for plates and the like. No. 1,383,304; July 5; v. 288; p. 9.
Hughes, Thomas J., Seattle, Wash. Reversing-gearing No. 1,384,388; July 12; v. 288; p. 283.
Hulbert, Edwin F., Milwaukee, assignor to Jiffy Dessert Company, Waukesha, Wis. Forming closures of sealed receptacles. No. 1,385,830; July 26; v. 288; p. 737.
Hulbert, Edwin F., Milwaukee, assignor to Jiffy Dessert Company, Waukesha, Wis. Sealed receptacle. No. 1,385,831; July 26; v. 288; p. 737.
Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge apparatus. No. 1,385,873; July 26; v. 288; p. 746.
Hull, George W., Seattle, Wash. Swiveled chair. No. 1,385,620; July 26; v. 288; p. 695.
Hull, John, Coatesville, Pa. Advertising device. No. 1,385,211; July 19; v. 288; p. 535.
Hull Process Company. (See Stephens, James C., assignor.)
Hulse, Edison G., assignor to Kelly-Springfield Tire Company, Cumberland, Md. Vehicle-tire. No. 1,384,759; July 19; v. 288; p. 442.
Hulsebos, Albert B., and G. Den Besten, assignors to Safety Release Clevis Company, Corsica, S. D. Automatically-releasing coupling. No. 1,384,195; July 12; v. 288; p. 243.
Hulsebos, Albert B., and G. Den Besten, assignors to Safety Release Clevis Company, Corsica, S. D. Automatically-releasing coupling. No. 1,384,258; July 12; v. 288 p. 256.
Humes, Guy B., Chicago, Ill. Attachment for reed musical instruments. No. 1,384,564; July 12; v. 288; p. 320.
Humphrey, Ernest N., and O. E. Wardner, assignors to The Traut & Hine Mfg. Company, New Britain, Conn. Buckle. No. 1,384,066; July 12; v. 288; p. 216.
Humphryes Manufacturing Company. (See Weaver, Thomas D., assignor.)
Hunt, Elmer E., Chicago, Ill. Window-ventilator and the like. No. 1,383,811; July 5; v. 288; p. 115.
Hunter, Harry E., San Jose, Calif. Oil-burner. No. 1,385,132; July 19; v. 288; p. 519.
Huntington, Charles V., Woodland, Calif. Housed ironing-board. No. 1,385,212; July 19; v. 288; p. 535.
Hurd, Arthur J., Wausau, Wis. Gardener's stool. No. 1,383,542; July 5; v. 288; p. 58.
Hurlburt, David M., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic exposure mechanism. No. 1,383,305; July 5; v. 288; p. 10.
Hurst, Willis T., Pittsburgh, Pa., assignor to Slag Rock Machine Company. Apparatus for coating pig-metal-casting machine. No. 1,384,760; July 19; v. 288; p. 442.
Hurwitz, Samuel J., Youngstown, Ohio. Vulcanizing device. No. 1,383,951; July 5; v. 288; p. 143.
Hutcheson, Thomas C., Newton, assignor to United Drug Company, Boston, Mass. Display device. No. 1,384,727; July 12; v. 288; p. 354.
Hutchins Car Roofing Company. (See Hawksworth, David W., assignor.)
Hutchinson, Mackintosh, Toronto, Canada. Ash-sifter. No. 1,383,812; July 5; v. 288, p. 115.
Hydraulic Oil System Corporation. (See Farr, Frederick G., assignor.)
Hydraulic Pressed Steel Company. (See Gase, George A., assignor.)
Hydraulic Pressed Steel Company, The. (See Klaus, Fred R., assignor.)
Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Weatherproof electric heater. No. 1,384,067; July 12; v. 288; p. 217.
Hynes, Lee P., assignor to Consolidated Car-Heating Company, Albany, N. Y. Electric heater. No. 1,385,376; July 26; v. 288; p. 644.
Ibbott, Harold W., assignor to Negretti and Zambra, London, England. Bourdon tube. No. 1,385,133; July 19; v. 288; p. 520.
Ideal Wrapping Machine Company. (See Lietz, Charles J., assignor.)
Iles, Elijah J., and O. L. Hastings, assignors to Alexandria Potato Curing Company, Inc., Alexandria, La. Curing-house for sweet potatoes. (Reissue.) No. 15,156; July 19; v. 288; p. 563.
Illinois Tool Works. (See Olson, C., and Trbojevich, assignors.)
Illinois Tool Works. (See Olson, C. G., and England, assignors.)
Illinois Tool Works. (See Olson, Carl G., assignor.)
Imhof, Joseph A., assignor to Invisible Color Print Corporation, New York, N. Y. Producing color-prints. No. 1,384,663; July 12; v. 288; p. 342.
Independent Pneumatic Tool Company. (See Levedahl, Axel, assignor.)
Ingersoll, Howard L., White Plains, N. Y. Booster-motor for locomotives. No. 1,383,633; July 5; v. 288; p. 78.
Ingersoll, Leland, assignor to The A. S. Gilman Printing Co., Cleveland, Ohio. Manifold-form sheet. No. 1,385,832; July 26; v. 288; p. 737.
Ingersoll-Rand Company. (See Bayles, Lewis C., assignor.)
Ingersoll-Rand Company. (See Christmas, Adolph F., assignor.)
Ingersoll-Rand Company. (See Cone, Joseph D., assignor.)
Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
Ingersoll-Rand Company. (See Gulley, Henri A., assignor.)
Ingersoll-Rand Company. (See Hansen, Charles C., assignor.)
Ingersoll-Rand Company. (See Jimerson, Francis A., assignor.)
Ingersoll-Rand Company. (See Kirgan, John F., assignor.)
Ingersoll-Rand Company. (See Parsons, Frederick W., assignor.)
Ingersoll-Rand Company. (See Pitts, Claude, assignor.)
Ingersoll-Rand Company. (See Prellwitz, William, assignor.)
Ingersoll-Rand Company. (See Smith, William A., assignor.)
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,385,172; July 19; v. 288; p. 528.
Ingram, Harry. (See Ingram, Alfred and H.)
Ingram, Joseph A., East Orange, N. J. Motor-cooling means. No. 1,384,031; July 5; v. 288; p. 160.
Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
Inman Manufacturing Company. (See Joslin, Frank M., assignor.)
Insel Company, The. (See Davis, Joseph, assignor.)
International Harvester Company. (See Burgess, Edward W., assignor.)

International Harvester Company. (See Holland-Letz, Lud, assignor.)
International Harvester Company. (See Rice, George L., assignor.)
International Lettergraph Corporation, *et al.* (See Kidder, Wellington P., assignor.)
International Motor Company. (See Masury, A. F., and Leipert, assignors.)
International Precipitation Company. (See Wolcott, Edson R., assignor.)
International Radio Telegraph Company. (See Adair, Samuel E., assignor.)
International Scale Company. (See Osgood, Louis A., assignor.)
Invisible Color Print Corporation. (See Imhof, Joseph A., assignor.)
Inwood Mary C., administratrix. (See Inwood, R. G., and Bombardie.)
Inwood, Richard G., deceased (M. C. Inwood, administratrix, South Bend, Ind.), and C. H. Bombardie, Chicago, Ill., assignors to Wirebounds Patents Company, Kittery, Me. Box. No. 1,383,952; July 5; v. 288; p. 143.

Ironton Engine Company. (See Williams, Albert R., assignor.)
Irwin, William, Irwin, Pa. Spring. No. 1,385,919; July 26; v. 288; p. 754.
Israel, Sydney. (See Israel, William, assignor.)
Isrnel, William, assignor of one-half to S. Israel, Kingston, Pa. Lamp-supporting attachment for miners' caps. No. 1,383,721; July 5; v. 288; p. 97.
Ives, Frederic E., Philadelphia, Pa. Photographic apparatus. No. 1,383,543; July 5; v. 288; p. 59.
Jackson, Norman, Washington, D. C. Pneumatic tire. No. 1,384,134; July 12; v. 288; p. 231.
Jacob, Francis M., Columbus, Miss. Axle for running-gears of wagons. No. 1,385,324; July 19; v. 288; p. 557.

Jacobi, August C., Sunnyvale, Calif. Friction-clutch. No. 1,383,813; July 5; v. 288; p. 115.
Jacobs, Isidor M., Kansas City, and W. Cramer, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Belt-fastening device. No. 1,385,685; July 26; v. 288; p. 708.
Jacoby, Jonas C., South Bethlehem, Pa. Steel clamp. No. 1,384,664; July 12; v. 288; p. 342.
Jacques, Raynaldo P., Woonsocket, R. I. Connector for lubricating apparatus. No. 1,383,306; July 5; v. 288; p. 10.
Jacquet, Etienne. (See Senton, C. A., and Jacquet.)
James, Henry V., Radlett, England. Material-feed-reel brake. No. 1,383,953; July 5; v. 288; p. 144.
Jamison, J. Scott, *et al.* (See Biette, Henry C., assignor.)
Janisch, Maximillian P., Milwaukee, Wis., assignor, by mesne assignments, to Sealright Co., Inc., Fulton, N. Y. Expanding die. No. 1,385,833; July 26; v. 288; p. 738.
Janson, Carl G. (See Braun, C. J., and Janson.)
Jeffries, Roy D., Granada, Minn. Safety device for tractors. No. 1,384,957; July 19; v. 288; p. 482.
Jelalian, Martin, Cranston, R. I. Vertically-operated buffing device for metal cases. No. 1,384,259; July 12; v. 288; p. 257.
Jenckes Spinning Company. (See Wood, William P., assignor.)
Jenkins, Charles F., Washington, D. C. Aeroplane. No. 1,383,465; July 5; v. 288; p. 43.
Jenkins, Charles F., Washington, D. C. Motion-picture machine. No. 1,385,325; July 19; v. 288; p. 557.
Jenkins, William B., Barber, Idaho. Motor-vehicle sleigh. No. 1,385,257; July 19; v. 288; p. 543.
Jennings, William L., Girard, Tex. Wagon. No. 1,384,720; July 12; v. 288; p. 353.
Jensen, George C., Oakland, Calif. Mechanism for locking levers fulcrumed for universal swinging movements. No. 1,385,552; July 26; v. 288; p. 681.
Jensen, George C., Oakland, Calif. Transmission-cover lock. No. 1,385,553; July 26; v. 288; p. 681.
Jessup, James H., Salem, Ohio. Cable-tie hanger. No. 1,384,761; July 19; v. 288; p. 442.
Jessup, James H., Salem, Ohio. Cable-tie-clamping device. No. 1,384,762; July 19; v. 288; p. 442.
Jett, George C., assignor, by mesne assignments, of two-fifths to W. H. Stiemke, Milwaukee, Wis. Bearing. No. 1,383,466; July 5; v. 288; p. 43.
Jewell, James W., *et al.* (See Shrum, Will N., assignor.)
Jiffy Dessert Company. (See Hulbert, Edwin F., assignor.)
Jillson, Harlan S., Turners Falls, Mass. Tool for compressing valve-springs. No. 1,384,958; July 19; v. 288; p. 482.
Jimerson, Francis A., Athens, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Fluid-actuated rotary tool. No. 1,385,134; July 19; v. 288; p. 520.
Johns, Luther, Oak Park, Ill. Vehicle for children. No. 1,383,307; July 5; v. 288; p. 10.
Johnson, Albert E., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing insoles. No. 1,384,804; July 19; v. 288; p. 451.
Johnson, Arthur G., Spokane, Wash. Crank-shaft holder. No. 1,383,634; July 5; v. 288; p. 78.
Johnson, Augusta S., Philadelphia, Pa. Garter-clasp. (Reissue.) No. 15,164; July 26; v. 288; p. 766.

Johnson, Benjamin F., Baltimore, Md. Trolley-pole retriever. No. 1,385,621; July 26; v. 288; p. 686.
Johnson, Clair L., Chicago, Ill. Space-band. No. 1,383,635; July 5; v. 288; p. 78.
Johnson, Edward E., St. Paul, Minn. Mechanical movement. No. 1,383,308; July 5; v. 288; p. 10.
Johnson, Ernest S., assignor of one-half to W. B. Rood, Webster City, Iowa. Stock-watering device. (Reissue.) No. 15,139; July 5; v. 288; p. 161.
Johnson, Frank E., Salt Lake City, Utah, assignor to American Manganese Steel Company, Chicago, Ill. Mine-car wheel. No. 1,383,309; July 5; v. 288; p. 10.
Johnson, Frank E., Trinidad, Colo. Weaner. No. 1,384,721; July 12; v. 288, p. 353.
Johnson, Irvin W., Cosmopolis, Wash. Taper attachment for sawmill-carriage blocks. No. 1,383,544; July 5; v. 288; p. 59.
Johnson, John, Des Moines, Iowa. Saw-tooth cutter. No. 1,383,722; July 5; v. 288; p. 97.
Johnson, Lawrence and H. Brearley, Sheffield, England. Apparatus for testing the hardness of materials. No. 1,384,389; July 12; v. 288; p. 284.
Johnson, Oscar B., Indianapolis, Ind. Hinge for windows. No. 1,384,836; July 19; v. 288; p. 458.
Johnston, C. F., and G. G. Rees, San Francisco, Calif. Combined washer and lock-nut. No. 1,384,019; July 5; v. 288; p. 158.
Johnston, Salathiel, *et al.* (See Johnston, Samuel, assignor.)
Johnston, Samuel, deceased; A. E. Near, executor, Port Colborne, Ontario, Canada, assignor, by direct and mesne assignments, of one-half to L. G. Brown, Niagara Falls, N. Y., and one-half to S. Johnston, Bertie township, Ontario, Canada. Auto-jack. No. 1,383,545; July 5; v. 288; p. 59.
Jolivet, Gustave. (See Pereire, G., and Jolivet.)
Jolliffe, Edward, Chicago, Ill. Wood-grainer. No. 1,384,959; July 19; v. 288; p. 483.
Jones, Benjamin H., assignor to Smith & Davis Manufacturing Co., St. Louis, Mo. Corner-fastening for beds. No. 1,385,173; July 19; v. 288; p. 528.
Jones, Benjamin H., assignor to Smith & Davis Manufacturing Co., St. Louis, Mo. Spring-mattress and support therefor. No. 1,385,174; July 19; v. 288; p. 528.
Jones, Charles A., Gloucester, England. Lifting-jack. No. 1,384,322; July 12; v. 288; p. 269.
Jones, Charles J., Marshall, Tex. Railway-tie. No. 1,383,954; July 5; v. 288; p. 144.
Jones, Fred H., Zanesville, Ohio. Churn. No. 1,384,665; July 12; v. 288; p. 342.
Jones, George C., Brownwood, Tex. Automobile-spring. No. 1,383,723; July 5; v. 288; p. 97.
Jones, Harry A., and E. W. Struve, Parsons, Kans. Adjustable-chain oil-bearing. No. 1,385,135; July 19; v. 288; p. 520.
Jones, Harry A., and E. W. Struve, Parsons, Kans. Sawgrinding jig. No. 1,385,175; July 19; v. 288; p. 528.
Jones, Hugh E., Oshkosh, Wis. Repair-link. No. 1,385,554; July 26; v. 288; p. 681.
Jones, Joseph H., Winthrop, assignor of one-half to R. Burgess, Newton Center, Mass. Cap-spinning frame. No. 1,385,078; July 19; v. 288; p. 508.
Jones, Lemuel, Aylesbury, England. Toothed gearing. No. 1,383,402; July 5; v. 288; p. 30.
Jones, Lemuel R., Los Angeles, Calif. Envelop. No. 1,384,837; July 19; v. 288; p. 458.
Jones, Maurice F., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,384,469; July 12; v. 288; p. 300.
Jones, Richard E., and T. P. A. Von Thien, assignors to Robert Gair Company, Brooklyn, N. Y. Stamping attachment for carton-setting-up machines. No. 1,383,636; July 5; v. 288; p. 78.
Jones, Robert R., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Removing tires from rims. No. 1,385,079; July 19; v. 288; p. 508.
Jones, Roy C., Chicago, Ill. Locking hair-fastener. No. 1,385,349; July 19; v. 288; p. 562.
Jones, Walter, Stourbridge, England. Purification of sewage and analogous liquids. (Reissue.) No. 15,140; July 5; v. 288; p. 161.
Jones, William J., Gregory, S. D. Resistance appendage for tractor-wheels. No. 1,384,068; July 12; v. 288; p. 217.
Jordan, Burton S., assignor to J. E. Porter Company, Ottawa, Ill. Door-hanger. No. 1,384,763; July 19; v. 288; p. 443.
Jordan, J. Eugene. (See Crawford, Edgar J., assignor.)
Joslin, Frank M., assignor to Inman Manufacturing Company, Inc., Amsterdam, N. Y. Collapsible carton. No. 1,384,069; July 12; v. 288; p. 217.
Joy, Bertram C., Hempstead, London, England. Apparatus for producing a vacuum for vacuum-cleaning and dust-removing purposes. No. 1,384,898; July 19; v. 288; p. 470.
Judyckl, Carl, Athol, Mass. Combined key and permutation-padlock. No. 1,384,390; July 12; v. 288; p. 284.
Justice, Ithamar M., and G. A. Willigman, Dayton, Ohio. Apparatus for baking material. (updraft kiln.) No. 1,385,686; July 26; v. 288; p. 708.
Kahl, Roger A., Wallingford, Conn. Collar-button. No. 1,383,310; July 5; v. 288; p. 11.
Kalamazoo Loose Leaf Binder Company. (See Wigginton, George P., assignor.)

Kalberer, George J., and J. A. Weigel, assignors to The Hamilton Caster & Manufacturing Company, Hamilton, Ohio. Caster. No. 1,385,947; July 26; v. 288; p. 760.
Kalemba, Tomasz, Uniontown, Pa. Animal-trap. No. 1,384,698; July 12; v. 288; p. 349.
Kalmus Comstock & Wescott. (See Wescott, William B., assignor.)
Kaltreider, John L., and C. F. Shryock, Hanover, Pa. Rim constricting and expanding device. No. 1,385,377; July 26; v. 288; p. 644.
Kane, Aurelian L., Ossining, N. Y. Smokehouse. No. 1,383,814. July 5; v. 288; p. 116.
Kane, William, Philadelphia, Pa. Automatic gas-regulator. No. 1,384,823; July 12; v. 288; p. 270.
Kanner, Samuel, New York, N. Y. Razor-blade-sharpening machine. No. 1,385,622; July 26; v. 288; p. 695.
Kanter, William, assignor to The Kanters Stamping and Manufacturing Company, Cleveland, Ohio. Hinge. No. 1,384,260; July 12; v. 288; p. 257.
Kanters Stamping and Manufacturing Company, The. (See Kanter, William, assignor.)
Kaplan, Samuel, *et al.* (See Howell, Henry M., assignor.)
Kapolkin, Herman, New York, N. Y. Concrete railway tie. No. 1,384,070; July 12; v. 288; p. 217.
Kappes, Andrew C., assignor to William Wrigley Jr. Company, Chicago, Ill. Numbering device for wrapping-machines. No. 1,384,899; July 19; v. 288; p. 470.
Karamanous, Demetrios, Donora, Pa. Actuating mechanism. No. 1,384,135; July 12; v. 288; p. 231.
Kardell, Henry W., University City, assignor to Kardell Tractor & Truck Company, St. Louis, Mo. Traction-wheel. No. 1,385,455; July 26; v. 288; p. 660.
Kardell Tractor & Truck Company. (See Kardell, Henry W., assignor.)
Karr, Henry C., assignor of one-fifth to E. Bönnelycke, Washington, D. C. Watch-staud. No. 1,384,071; July 12; v. 288; p. 217.
Kästner, Alfred, and K. Stratomeyer, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Foundation for guns. No. 1,385,136; July 19; v. 288; p. 520.
Katzenberger, Oscar, assignor to Lawson Manufacturing Company, Chicago, Ill. Pivot spring-hinge. No. 1,383,815; July 5; v. 288; p. 116.
Kauffmann, George J., Easton, assignor of one-half to M. F. Richardson, Cynwyd, Pa. Valve. No. 1,385,137; July 19; v. 288; p. 520.
Keegan, Mary R., Woodsfield, Ohio. Collapsible wardrobe. No. 1,385,555; July 26; v. 288; p. 681.
Keese, Richard A., Los Angeles, Calif. Tractor-cultivator. No. 1,383,637; July 5; v. 288; p. 78.
Keeton, Monroe, Meridian, Miss. Safety device for fasteners. No. 1,384,526; July 12; v. 288; p. 312.
Kehm, August, Chicago, Ill. Radiator. No. 1,383,724; July 5; v. 288; p. 97.
Keighler, Walter M., Philadelphia, Pa. Combined air and water heater. No. 1,384,764; July 19; v. 288; p. 443.
Kellan, Edward L., Chicago, Ill. Flush-valve. No. 1,385,456; July 26; v. 288; p. 660.
Keller, Huldreich, deceased, by K. Keller, administratrix, assignor to Aktiengesellschaft der Maschinenfabriken Escher Wyss & Cie., Zurich, Switzerland. Composite gear-wheel. No. 1,383,816; July 5; v. 288; p. 116.
Keller, Karl O., Sunderland, assignor of one-half to R. P. Doxford, Sunderland, Durham, England. Reciprocating pump and the like. No. 1,385,005; July 19; v. 288; p. 493.
Keller, Katharina, administratrix. (See Keller, Huldreich.)
Kelly, Andrew, London, England. Manufacture of acid sodium pyrophosphate. No. 1,383,990; July 5; v. 288, p. 152.
Kellogg, Charles B., assignor of one-half to E. U. Knight, Chicago, Ill. Display device and forming same. No. 1,385,854; July 26; v. 288; p. 738.
Kellogg, James L., New York, N. Y. Kindergarten apparatus. No. 1,385,623; July 26; v. 288; p. 695.
Kellogg Switchboard and Supply Company. (See Ericson, Lawrence, assignor.)
Kelly, Clarence H. (See Harper, Edward W., assignor.)
Kelly-Springfield Tire Company. (See Hulse, Edison G., assignor.)
Kelly, Thomas J., Ashkum, Ill. Clutch. No. 1,384,324; July 12; v. 288; p. 270.
Kelsey, William A., Minneapolis, Minn. Dental tool. No. 1,385,747; July 26; v. 288; p. 720.
Kemp, Edward, assignor of one-third to G. W. Morley, Toronto, Ontario, Canada. Vehicle-wheel. No. 1,383,991; July 5; v. 288; p. 152.
Kemp, Ernest, Clapham Common, England. Illuminating-sign for automobiles. No. 1,385,006; July 19; v. 288; p. 493.
Kemper, Windom L. (See Mueller, Theodore C., assignor.)
Kemper, Windom L., Topeka, Kans. Tire. No. 1,385,252; July 19; v. 288; p. 543.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Oil-ring. No. 1,384,470; July 12; v. 288; p. 300.
Kendel, George, McNutt, Saskatchewan, Canada. Drag-harrow cleaner. No. 1,383,403; July 5; v. 288; p. 30.
Kennedy, Andrew J., Chicago, Ill. Separable cuff-button. No. 1,384,529; July 12; v. 288; p. 313.

Kennedy, Joseph E., New York, N. Y. Driving mechanism for crushers. No. 1,385,687; July 26; v. 288; p. 708.
Kennison, Karl R., Boston, Mass. Bilge-block. No. 1,385,487; July 26; v. 288; p. 667.
Kent, Arthur A., Ardmore, Pa. Induction-coil-heat-dissipating structure. No. 1,385,624; July 26; v. 288; p. 695.
Kent, Arthur A., Ardmore, Pa. Distributer structure. No. 1,385,625; July 26; v. 288; p. 695.
Kent, Arthur A., Ardmore, Pa. Ignition timer structure. No. 1,385,626; July 26; v. 288; p. 696.
Kentowski & Company. (See Lizak, August S., assignor.)
Keppler, Frederick L., New York, N. Y. Glass pavement-light. No. 1,385,688; July 26; v. 288; p. 709.
Kercher, John, Chicago, Ill. Massaging-machine. No. 1,384,072; July 12; v. 288; p. 218.
Kern, Maximilian H., New York, N. Y., assignor to Roberts Numbering Machine Company. Numbering-head. No. 1,385,835; July 26; v. 288; p. 738.
Kerr, Andrew J., assignor of fifty-one per cent. to A. M. Pachmayr, Los Angeles, Calif. Bermuda-grass cutter and lawn-aerator. No. 1,385,007; July 19; v. 288; p. 493.
Kerr, Arthur N., assignor, by mesne assignments, to Transcontinental Oil Company, Pittsburgh, Pa. Cylinder-car. No. 1,385,836; July 26; v. 288; p. 738.
Kerr, Charles H. (See Tilliyer, E. D., and Kerr.)
Kersey, Percy L., Indianapolis, Ind. Piston and ring. No. 1,385,556; July 26; v. 288; p. 681.
Kerstein, Ernest A., Union, N. J., assignor to American Meter Company, New York, N. Y. Gas-meter. No. 1,385,253; July 19; v. 288; p. 543.
Kesses, Charles, New York, N. Y. Motion-picture projector. No. 1,384,527; July 12; v. 288; p. 312.
Kesses, Charles, New York, N. Y. Photographic exposing-clock. No. 1,384,528; July 12; v. 288; p. 312.
Key, James F., Sierra Madre, assignor of one-half to W. A. Hayt, Los Angeles, Calif. Coupling. No. 1,385,080; July 19; v. 288; p. 508.
Kidder, Wellington P., Jamaica Plain, Mass., assignor of one-third to H. Bates and two-thirds to International Lettergraph Corporation, New York, N. Y. Incased collapsible typewriter. No. 1,383,638; July 5; v. 288; p. 79.
Kiessig, Bernard R. (See Vasey, J. N., and Kiessig.)
Kiest, Henry A., Knox, Ind. Fishing-reel. No. 1,385,457; July 26; v. 288; p. 661.
Kiley, Joe L., Heloise, Tenn. Cotton-picker's bag. No. 1,383,955; July 5; v. 288; p. 144.
Kiley, Joe L., and R. E. Lucas, Heloise, Tenn.; said Lucas assignor of one-half of his entire right to said Kiley. Harvesting-bag. No. 1,383,956; July 5; v. 288; p. 144.
Kilkenny, Joseph B., Oakland, Calif. Fusible plug. No. 1,384,471; July 12; v. 288; p. 300.
Kimman, Henry J., Cleveland, Ohio, assignor to Chicago Pneumatic Tool Company, Chicago, Ill. Drill. No. 1,385,458; July 26; v. 288; p. 661.
Kimmel, George P., *et al.* (See McCann, Joseph W., assignor.)
King, Arthur, *et al.* (See Howell, Henry M., assignor.)
King Bee Spark Plug Company *et al.* (See Trova, Oswald, assignor.)
King, Bert W., Detroit, Mich. Scale. No. 1,384,136; July 12; v. 288; p. 231.
King, George S., South Berkeley, Calif. Front-axle radius-rod. No. 1,383,817; July 5; v. 288; p. 116.
King, John O., Los Angeles, Calif. Generator for hydrocarbon-burners. No. 1,385,557; July 26; v. 288; p. 682.
King, John Y., Lansdowne, Pa. Air-feeding device. No. 1,384,838; July 19; v. 288; p. 458.
King, Leonard, Luton, England. Automatic sprinkler-broom. No. 1,384,722; July 12; v. 288; p. 353.
King, Reginald O., New York, N. Y. Resilient wheel. No. 1,383,725; July 5; v. 288; p. 97.
Kingsbury & Davis Machine Company. (See Davis, Charles C., assignor.)
Kingswell, Percy N. (See Roberts, R. H., and Kingswell.)
Kinnear Manufacturing Company, The. (See McCloud, Edward H., assignor.)
Kintzele, Felix P., assignor to Krisman-Frey Jewelry Mfg. Co., Inc., St. Louis, Mo. Soft-collar holder. No. 1,385,176; July 19; v. 288; p. 528.
Kiracofe, Otterbein, East Rutherford, N. J., assignor, by mesne assignments, to The Flintkote Company, Boston, Mass. Roofing material and joining the ends of felt in making the same. No. 1,383,726; July 5; v. 288; p. 98.
Kirby, Dee W., Gurdon, Ark. Cushion-tire. No. 1,383,818; July 5; v. 288; p. 116.
Kirgan, John F., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Spray-head. No. 1,383,404; July 5; v. 288, p. 31.
Kiriakou, Thomas J., Indianhead, Md. Stationary self-cleansing shaving-cup. No. 1,383,639; July 5; v. 288; p. 79.
Kirk, Thomas S. (See Pringle, A., and Kirk.)
Kirshner, Arthur C., assignor to The National Cash Register Company, Dayton, Ohio. Credit-slip-authorizing apparatus. No. 1,385,788; July 26; v. 288; p. 729.
Kistner, Herman, Elizabeth, N. J. Clothesline-clamp. No. 1,385,837; July 26; v. 288; p. 738.

Kitsee, Isidor, Philadelphia, Pa. Producing matrices and color-screens therefrom. No. 1,383,819; July 5; v. 288; p. 117.
Kittredge, John W., Akron, Ohio. Derrick. No. 1,384,960; July 19; v. 288; p. 483.
Klages, Reynold E., Columbus, Ohio. Drag-link. No. 1,384,261; July 12; v. 288; p. 257.
Klatt, William A., *et al.* (See Weier, Jacob J., assignor.)
Klaus, Fred R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Wire-wheel rim and making same. No. 1,383,467; July 5; v. 288; p. 43.
Klein, Harry, Freeport, N. Y. Lamp-securing means. No. 1,384,961; July 19; v. 288; p. 483.
Kleinert, I. B., Rubber Company. (See Guinzburg, Victor, assignor.)
Klemm, Charles, Lawrence, Mass. Reversible brush-handle. No. 1,383,820; July 5; v. 288; p. 117.
Klemm, Edwin O., assignor to Klemm Manufacturing Company, Saginaw, Mich. Stop mechanism for talking-machines. No. 1,385,689; July 26; v. 288; p. 709.
Klemm, Edwin O., Dayton, Ohio, assignor to Klemm Manufacturing Company, Saginaw, Mich. Stop mechanism for graphophones. No. 1,385,690; July 26; v. 288; p. 709.
Klemm Manufacturing Company. (See Klemm, Edwin O., assignor.)
Kline, Paul E., Bridgeville, Pa. Auxiliary air-feed. No. 1,385,213; July 19; v. 288; p. 536.
Klingberg, Willgot, *et al.* (See Dunham, Millbourne K., assignor.)
Klocke, William H., Woodhaven, assignor of one-half to H. F. Hughes, Brooklyn, N. Y. Disk wheel for vehicles. No. 1,383,728; July 5; v. 288; p. 98.
Klopper, August C., Asbury Park, N. J. Wrench. No. 1,385,214; July 19; v. 288; p. 536.
Knaak, George A., Milwaukee, Wis. Pressure member. No. 1,385,378; July 26; v. 288; p. 645.
Knappen, Karl G., Seattle, Wash. Vehicle-wheel. No. 1,383,405; July 5; v. 288; p. 31.
Knauft, John H., Milwaukee, Wis. Desk for bookkeeping-machines, &c. No. 1,384,530; July 12; v. 288; p. 313.
Knaus, August, Philadelphia, Pa. Article of jewelry. No. 1,385,691; July 26; v. 288; p. 709.
Knight, Eugene U. (See Kellogg, Charles B., assignor.)
Knight, Herbert, New York, N. Y. Process of and apparatus for soil treatment. (Reissue.) No. 15,151; July 12; v. 288; p. 356.
Knitter, Elmer T., Cleveland, Ohio. Wrench. No. 1,384,765; July 19; v. 288; p. 443.
Knowles, Edward S., deceased, San Francisco, Calif., by decree of distribution of the estate to M. E. Knowles. Spinner fish-lure. No. 1,383,546; July 5; v. 288; p. 59.
Knowles, Minnie E., by decree of distribution of estate. (See Knowles, Edward S.).
Knox, Culver B., Glen Ridge, assignor to The Whitehead & Hoag Company, Newark, N. J. Salt-spout. No. 1,383,640; July 5; v. 288; p. 79.
Knox, Luther L., Bellevue, assignor to Blaw-Knox Company, Pittsburgh, Pa. Port-cooler for reversing regenerative furnaces. No. 1,385,008; July 19; v. 288; p. 493.
Koehler, Arthur J. (See Farrow, Irving J., assignor.)
Koenig, Alfred L., Chicago, Ill. Switch for stop-signals for automobiles. No. 1,383,821; July 5; v. 288; p. 117.
Kohn, Sigmund F., New York, N. Y. Toy bed. No. 1,383,727; July 5; v. 288; p. 98.
Kohnle, Frederick, assignor to The Monarch Tag Company, Dayton, Ohio. Price-tag. No. 1,383,641; July 5; v. 288; p. 79.
Kohr, Granville I., York, Pa. Pick-up and separating machine. No. 1,385,874; July 26; v. 288; p. 746.
Konsalik, Arthur R., Philadelphia, Pa. Relieving attachment for clogged water-conductors, drain spouts, &c. No. 1,384,547; July 5; v. 288; p. 60.
Koonts, Everett E., *et al.* (See Dungan, John E., assignor.)
Kopp, John P. (See Kopp, Paul A. and J. P.)
Kopp, Paul A., and J. P., Tulsa, Okla. Clasp. No. 1,385,009; July 19; v. 288; p. 494.
Koziol, William, Easthampton, Mass. Safety-lock. No. 1,384,723; July 12; v. 288; p. 353.
Kraft, Henry P., Ridgewood, N. J. Pump-coupling or the like. No. 1,384,196; July 12; v. 288; p. 243.
Kraft, Henry P., Ridgewood, N. J. Pump-coupling or the like. No. 1,384,197; July 12; v. 288; p. 244.
Kramer, Edward H. (See Du Brie, Stanley R., assignor.)
Krantz, Hubert F., assignor to Krantz Manufacturing Company, Inc., Brooklyn, N. Y. Switch mechanism. (Reissue.) No. 15,152; July 12; v. 288; p. 357.
Krantz Manufacturing Company. (See Krantz, Hubert F., assignor.)
Kratz, Franz, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Starting apparatus for internal-combustion engines. No. 1,383,311; July 5; v. 288; p. 11.
Kratz, Franz, Stuttgart, Germany, assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electrical condenser and making it. No. 1,385,379; July 26; v. 288; p. 645.
Krause, William C., Milwaukee, Wis. Box-protector. No. 1,384,391; July 12; v. 288; p. 284.
Kretzer, Nicholas, Louisville, Ky. Coin-controlled lock. No. 1,384,766; July 19; v. 288; p. 443.
Krickel, Louis H., *et al.* (See Howell, Henry M., assignor.)
Kriska, Samuel, Lore City, Ohio. Rail-clamp and metallic tie. No. 1,383,406; July 5; v. 288; p. 31.
Krisman-Frey Jewelry Mfg. Co. (See Kintzele, Felix P., assignor.)
Kristofek, Frank J., assignor to Brown & Bigelow, St. Paul, Minn. Clock-case. No. 1,384,900; July 19; v. 288; p. 470.
Krohn, John, Newark, N. J. Mechanical movement. No. 1,384,839; July 19; v. 288; p. 458.
Kroll, William H., De Pere, Wis. Combination hinge and catch for automobile-doors. No. 1,383,548; July 5; v. 288; p. 60.
Krompigel, Mathew, Youngstown, Ohio. Garment-supporter. No. 1,383,642; July 5; v. 288; p. 79.
Krug, William H., Oshkosh, Wis. Antiskid device for vehicles. No. 1,383,407; July 5; v. 288; p. 31.
Krug, William H., Fond du Lac, Wis. Antiskid device. No. 1,385,010; July 19; v. 288; p. 494.
Krull, John, Hayward, Calif. Poultry-waterer. No. 1,384,699; July 12; v. 288; p. 349.
Kruse, Henry T., Gull Lake, Saskatchewan, Canada. Tie. No. 1,384,531; July 12; v. 288; p. 313.
Krutsch, Willis W., Coffeyville, Kans. Resilient wheel. No. 1,384,901; July 19; v. 288; p. 470.
Kubelka, Vratislav, Brooklyn, N. Y. Tire. No. 1,383,822; July 5; v. 288; p. 117.
Kubelka, Vratislav, Brooklyn, N. Y. Antiskid device. No. 1,383,823; July 5; v. 288; p. 117.
Kublin, Frederick W. (See Gutweiler, J. L., and Kublin.)
Kuhne, Beat, Lewiston, Mont. Clamp unit for hose connections and pipe connections. No. 1,384,962; July 19; v. 288; p. 483.
Kukka, Edvard, assignor to Aktiebolaget Original-Odhner, Gottenberg, Sweden. Calculating-machine. No. 1,385,350; July 19; v. 288; p. 562.
Kules, Leo, Mount Washington, Pa. Door-hanger. No. 1,384,328; July 12; v. 288; p. 270.
Kuller, John A., Brooklyn, N. Y. Lock device. No. 1,385,558; July 26; v. 288; p. 682.
Kunkel, Albert R., San Antonio, Tex. Burner. No. 1,385,875; July 26; v. 288; p. 746.
Kunz, John L., Milwaukee, Wis. Automobile-wheel. No. 1,384,902; July 19; v. 288; p. 471.
Kupke, Friedrich W., Gera, Reuss, Germany. Chuck. No. 1,384,020; July 5; v. 288; p. 158.
Kurowski, Alfred G. F., Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,383,643; July 5; v. 288; p. 79.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,384,532; July 12; v. 288; p. 313.
Kurz, William M., Newark, N. J. Indicator and alarm for refrigerator drip-pans. No. 1,384,767; July 19; v. 288; p. 444.
La Batt, Charles P., Santa Monica, Calif. Amusement device. No. 1,384,963; July 19; v. 288; p. 483.
Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,383,824; July 5; v. 288; p. 118.
Lachman, Laurence S., New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal vehicle-wheel. No. 1,385,380; July 26; v. 288; p. 645.
Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,385,381; July 26; v. 288; p. 645.
Lagelbauer, Ferdinand, St. Paul, Minn. Rocking-horse. No. 1,383,468; July 5; v. 288; p. 44.
Lake Simcoe Ice Supply & Cold Storage Co., The. (See Fairhead, James, assignor.)
Lamb, Charles C., Chicago, Ill. Washing-machine. No. 1,385,692; July 26; v. 288; p. 709.
Lamont, James H., Coatesville, Pa. Catch device for adjusting straps for length. No. 1,384,666; July 12; v. 288; p. 342.
Landis, Clark H., Bowling Green, Ohio. Automobile-signal. No. 1,383,312; July 5; v. 288; p. 11.
Landon, Archer A., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Controlling mechanism for rotary casting-machines. No. 1,383,729; July 5; v. 288; p. 98.
Landon, Chauncey L., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-tread. No. 1,384,262; July 12; v. 288; p. 257.
Landon, William G., New York, N. Y. Control. No. 1,383,825; July 5; v. 288; p. 118.
Landreth, Clarence P., Philadelphia, Pa. Centrifugal apparatus. No. 1,383,313; July 5; v. 288; p. 11.
Lane, Leavitt J., assignor to Winchester Repeating Arms Co., New Haven, Conn. Plug-bait. No. 1,385,627; July 26; v. 288; p. 696.
Lang, Albert R., assignor to Flood Manufacturing Company, Spokane, Wash. Motor-vehicle. No. 1,383,644; July 5; v. 288; p. 80.
Lang, George H., assignor to Stover-Lang Company, Boston, Mass. Device for producing actuating impulses. No. 1,383,549; July 5; v. 288; p. 60.
Lang, Johan G. V. (See Greenfield, E. T., and Lang.)

Lankford, William J., and W. H. Chappell, Chanute, Kans. Concrete railway-tie. No. 1,384,326; July 12; v. 288; p. 270.
Lapham, Jared S., Northville, Mich., assignor of one-half to J. T. McMahon, Toledo, Ohio. Handle. No. 1,383,826; July 5; v. 288; p. 118.
Laporte, Gaspard, Pawtucket, and O. Laporte, Centerville, R. I. Shoemaker's jack. No. 1,384,903; July 19; v. 288; p. 470.
Laporte, Octave. (See Laporte, Gaspard and O.)
Largen, Fred C., Creighton, Nebr. Ventilator. No. 1,383,469; July 5; v. 288; p. 44.
Larsen, Arnold, assignor to The William Gent Vending Machine Company, Cleveland, Ohio. Automatic weighing-machine. No. 1,384,263; July 12; v. 288; p. 257.
Larson, Ludwig E., Willow Grove, Pa. Collapsible crate. No. 1,384,616; July 12; v. 288; p. 331.
Larson, Richard H. (See Wintherlich, Hans J., assignor.)
Larson, William, Minneapolis, Minn. Mechanical thermometer. No. 1,383,827; July 5; v. 288; p. 118.
Larsson, Thure, Worcester, Mass. Reversing mechanism. No. 1,385,966; July 26; v. 288; p. 763.
Lasares, George C., assignor of one-half to L. J. Harley, Jr., Springfield, Mass. Revolving toy. No. 1,385,559; July 26; v. 288; p. 682.
Laski, Antony, assignor to The Connecticut Lock Company, Inc., Bridgeport, Conn. Lock. No. 1,384,392; July 12; v. 288; p. 284.
Lattimore, Albert E., San Francisco, Calif. Guide and position-grip for sliding vehicle-windows. No. 1,384,904; July 19; v. 288; p. 471.
La Vigueur, Camille J., Beachmont, Mass. Paper-ruling-pen underlift. No. 1,383,314; July 5; v. 288; p. 11.
Lavole, Emery G., Greenwich, Conn. Robe-holder. No. 1,383,730; July 5; v. 288; p. 98.
Lawrence, Jay M., St. Paul, Minn. Cooking-receptacle. No. 1,385,450. July 26; v. 288; p. 661.
Lawrence, Oscar A., San Francisco, Calif. Pressure-bar. No. 1,383,645; July 5; v. 288; p. 80.
Lawson, John, Manito, Ill. Lockable steering-wheel for motor-vehicles. No. 1,383,550; July 5; v. 288; p. 60.
Lawson Manufacturing Company. (See Katzenberger, Oscar, assignor.)
Leahy, William A., Imogene, Iowa. Valve-spring holder. No. 1,384,472; July 12; v. 288; p. 301.
Leake, Richard C., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Time-release mechanism. No. 1,384,533; July 12; v. 288; p. 313.
Leathers, Lou E., Weed, Calif. Resilient wheel. No. 1,383,820; July 5; v. 288; p. 119.
Le Bras, Louis, assignor to Vaco Manufacturing Corporation, New York, N. Y. Vacuum-regulator machine. No. 1,384,724; July 12; v. 288; p. 354.
Lecoutre, Auguste J., assignor to Royal Worcester Corset Company, Worcester, Mass. Corset. No. 1,384,137; July 12; v. 288; p. 232.
Lednum, Edmund T., Denver, Colo., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Concentrator-table. No. 1,385,693; July 26; v. 288; p. 710.
Ledwinka, Joseph, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company. Hammering-machine. No. 1,385,011; July 19; v. 288; p. 494.
Lee, Albert P., assignor to Lee Trailer & Body Company, Chicago, Ill. Brake-operating mechanism. No. 1,384,073; July 12; v. 288; p. 218.
Lee, Albert P., assignor to Lee Trailer & Body Company, Chicago, Ill. Rail construction for rolling hoppers. No. 1,384,905; July 19; v. 288; p. 471.
Lee, Albert P., assignor to Lee Trailer & Body Co., Chicago, Ill. Semitrailer. No. 1,385,177; July 19; v. 288; p. 529.
Lee, Benjamin and S. H., Sankey, England. Temporary or permanent support for vehicle solid band-tires. No. 1,385,920; July 26; v. 288; p. 754.
Lee, Edwin S., Kansas City, Mo. Safety hair-straightening device. No. 1,384,906; July 19; v. 288; p. 471.
Lee, Harry, Livingston, Mont. Self-discharging tray. No. 1,384,667; July 12; v. 288; p. 343.
Lee, Henry B. (See Whiton, L. E., and Lee.)
Lee, Oscar, Fairfield, Mont. Ditch-filling machine. No. 1,384,617; July 12; v. 288; p. 331.
Lee, Sam H. (See Lee, Benjamin and S. H.)
Lee Trailer & Body Co. (See Lee, Albert P., assignor.)
Lee, Walter S., *et al.* (See Abernathy, Benjamin H., assignor.)
Leeseberg, Henry C. (See Pillars, E. R., and Leeseberg.)
Le Gere, Joseph F. (See Bradford, R. M., and Le Gere.)
Leggett, Herbert, Kansas City, Mo. Sound-modifier. No. 1,384,964; July 19; v. 288; p. 483.
Lehr, Elmer. (See Rohde, John J., assignor.)
Lehsou, Emil C., Missoula, Mont. Wagon-loading device. No. 1,385,560; July 26; v. 288; p. 682.
Leigh, Abner, St. Louis, Mo. Floor-cleaning device. No. 1,383,731; July 5; v. 288; p. 99.
Leighton, William E., West Pembroke, Me. Sound-post. No. 1,383,830; July 5; v. 288; p. 119.
Leighty, William J. (See Allison, I., and Leighty.)
Leimbach, Lizzie T. (See Harrah, Hillis A., assignor.)
Leimecke, Charles R., St. Charles, Ill. Lighting-fixture. No. 1,383,831; July 5; v. 288; p. 119.
Leister, Benjamin H., San Francisco, Calif. Steam-generator. No. 1,383,408; July 5; v. 288; p. 31.
Leisure, Claude O., Broken Bow, Nebr. Post-puller. No. 1,385,326; July 19; v. 288; p. 557.
Leipert, August H. (See Masury, A. F., and Leipert.)
Leisse, Pierre L., Boulogne, assignor to L. Renault, Billancourt, France. Sheet-metal wheel. No. 1,385,628; July 26; v. 288; p. 696.
Leitner, Henry, Kingsway, London, England. Metal propeller for aircraft. No. 1,385,561; July 26; v. 288; p. 682.
Leland, George H., Dayton, Ohio. Short-circuiting mechanism. No. 1,385,838; July 26; v. 288; p. 739.
Lenher, Victor, Madison, Wis. Compound and producing same. No. 1,385,081; July 19; v. 288; p. 509.
Leonard, Elof R., Mountain Lakes, N. J. Sash-weight. No. 1,384,074; July 12; v. 288; p. 218.
Leonard, James L., Pleasant Hill, Mo. Self-dumping hay-rake. No. 1,384,264; July 12; v. 288; p. 258.
Leoni, Alfonso M. (See Asprooth, A. H., and Leoni.)
Leoni, Alfonso M., Philadelphia, Pa., assignor, by mesne assignments, to Steinmetz Electric Motor Car Corporation, Baltimore, Md. Rear-axle assembly. No. 1,385,082; July 19; v. 288; p. 509.
Lethern, Albert A., London, England, assignor, by mesne assignments, to Mills Belt Company, Worcester, Mass. Military equipment. No. 1,383,315; July 5; v. 288; p. 12.
Levedahl, Axel, Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Valve-housing or handle-lock for pneumatic tools. No. 1,385,178; July 19; v. 288; p. 529.
Levene, Albert H., Philadelphia, Pa. Core or other rack. No. 1,385,012; July 19; v. 288; p. 494.
Levene, Albert H., Philadelphia, Pa. Brace for shipping vehicles. No. 1,385,013; July 19; v. 288; p. 495.
Levy, Joseph, Brooklyn, N. Y. Container. No. 1,384,725; July 12; v. 288; p. 354.
Lewis, Archibald B., *et al.* (See Bernhard, Hieronymus, assignor.)
Lewis, Cyril H., Shangani, Southern Rhodesia, British South Africa. Wrench. No. 1,384,618; July 12; v. 288; p. 332.
Lewis, Jerry M., Little Rock, Ark. Umbrella. No. 1,385,327; July 19; v. 288; p. 557.
Lewis, Leroy M., Philadelphia, Pa., assignor to O. B. Lewis, Baltimore, Md. Alarm check-valve. No. 1,385,460; July 26; v. 288; p. 662.
Lewis, Owen B. (See Lewis, Leroy M., assignor.)
Lewis, Robert W., Granville, N. D. Oiler for disk drills. No. 1,383,957; July 5; v. 288; p. 144.
Lewis, Thomas D., Scranton, Pa. Valve. No. 1,384,668; July 12; v. 288; p. 343.
Lewis, Wilbert J., *et al.* (See Smith, Frank W., assignor.)
Lewitt, Louis, Brooklyn, N. Y. Two-piece watch-casing. No. 1,385,839; July 26; v. 288; p. 739.
Ley, George A., Chicago, Ill. Igniter. No. 1,384,840; July 19; v. 288; p. 458.
Liddell, Michael V., assignor to Baker Manufacturing Company, Springfield, Ill. Snowplow. No. 1,383,409; July 5; v. 288; p. 32.
Lidgerwood Manufacturing Company. (See Evers, Cyrus, assignor.)
Lidstone, Edward S., Providence, R. I. Pumping mechanism. No. 1,385,838; July 26; v. 288; p. 739.
Lidstone, Edward S., Providence, R. I. Vise. No. 1,385,216; July 19; v. 288; p. 536.
Liebert, Jerome G., assignor to R. R. Riordon, Highland, N. Y. Toy. No. 1,383,316; July 5; v. 28; p. 12.
Liebhardt, Louis F., Denver, Colo. Garden-seat and producing same. No. 1,383,410; July 5; v. 28; p. 32.
Lietz, Charles J., Newark, N. J., assignor to Ideal Wrapping Machine Company. Feeding and forming mechanism for wrapping-machines. No. 1,384,198; July 12; v. 288; p. 244.
Lietz, Charles J., Newark, N. J., assignor to Ideal Wrapping Machine Company. Receiving and transfer mechanism for wrapping-machines. No. 1,384,199; July 12; v. 288; p. 244.
Lind, Theodore E., assignor, by mesne assignments, to Hood Tractor Company, Seattle, Wash. Bumper for motor-vehicles. No. 1,383,470; July 5; v. 288; p. 44.
Lindemuth, Lewis B., New York, N. Y. Manufacture of open-hearth metal. No. 1,385,562; July 26; v. 288; p. 683.
Linden, John J., Jersey City, N. J., assignor to B. B Vander Veer, New York, N. Y. Pie-crust-trimming machine. No. 1,384,907; July 19; v. 288; p. 472.
Linder, Peter, Chicago, Ill. Convertible furniture. No 1,384,327; July 12; v. 288; p. 270.
Lindley, Lowell F., and A. S. Speer, Chicago, Ill., assignors to The Roofing Patents Company, Buffalo, N. Y. Surfacing-machine for roofing. No. 1,384,534; July 12; v. 288; p. 314.
Link, George N. (See Waream, C. E., and Link.)
Linograph Company, The. (See Petersen, Hans, assignor.)
Linton, Chester A., Kansas City, Mo. Washing-machine. No. 1,383,471; July 5; v. 288; p. 44.
Liska, John W., Chicago, Ill. Liquid-mixing device. No. 1,385,179; July 19; v. 288; p. 529.
Lisowski, Maryan L., Cranford, N. J., assignor to M. L. Patents Corporation, New York, N. Y. Method and apparatus for house construction. No. 1,383,732; July 5; v. 28; p. 99.
Little, C. R., *et al.* (See Box, John V., assignor.)
Lizak, August S., assignor to Kentowski & Company, Chicago, Ill. Wrench. No. 1,385,180; July 19; v. 288; p. 529.

Lloyd, William, Hazleton, assignor to Coxe Traveling Grate Company, Port Carbon, Pa. Traveling grate. No. 1,385,876; July 26; v. 288; p. 746.

Lochrane, Harold M., Fort Wayne, Ind. Engine. No. 1,384,200; July 12; v. 288; p. 244.

Lockwood, Paul M., Kansas City, Mo. Slip-on cover. No. 1,384,908; July 19; v. 288; p. 472.

Lockwood, William F., B. H. Scott, and W. G. Royal, Hollis, Okla. Cotton-harvester. No. 1,384,265; July 12; v. 288; p. 258.

Locomobile Company, The. (See Roos, Delmar G., assignor.)

Locomotive Stoker Company. (See Lower, Nathan M., assignor.)

Loefler, Joseph E., St. Louis, Mo. Lifting and swinging support for railway motor-cars. No. 1,383,832; July 5; v. 288; p. 119.

Logel, Henry, Muskegon, Mich. Saw-filing device. No. 1,385,014; July 19; v. 288; p. 495.

Lombard, Walter E., Arlington, Mass. Screwdriver and the like. No. 1,384,201; July 12; v. 288; p. 244.

Lombard, Walter E., Arlington, assignor to A. O. Norton, Inc., Boston, Mass. Governor mechanism for lifting-jacks. No. 1,384,202; July 12; v. 288; p. 245.

Lombardo, August, Mason City, Iowa. Banana-crate. No. 1,385,015; July 19; v. 288; p. 495.

Long, Albert R., Ballston, Va. Fuel feeding and ignition means. No. 1,384,473; July 12; v. 288; p. 301.

Long, George A., assignor to The Gray Telephone Pay Station Company, Hartford, Conn. Automatic telephone pay-station. No. 1,383,472; July 5; v. 288; p. 44.

Longford Company of America, The. (See Davison, Guy S., assignor.) (Reissue.)

Longstreet, James R., Philadelphia, Pa. Battery-water-replenishing device. No. 1,383,411; July 5; v. 288; p. 32.

Loomis, Chauncey C., Syracuse, assignor to Semet-Solvay Company, Solvay, N. Y. Halogenating hydrocarbon compounds. No. 1,384,909; July 19; v. 288; p. 472.

Lorenz, Charles O., Port Arthur, Tex., assignor to The Texas Company, New York, N. Y. Electric-current relay. No. 1,385,181; July 19; v. 288; p. 529.

Lortz, Louis E., St. Louis, assignor to Fulton Iron Works Company, St. Louis county, Mo. Hydraulic apparatus for crushing-mills. No. 1,383,473; July 5; v. 288; p. 45.

Los Angeles Trust and Savings Bank, trustee. (See Strauss, Samuel, assignor.)

Loucks, Albert H. (See Smith, E. B., and Loucks.)

Louden Machinery Company, The. (See Louden, William, assignor.)

Louden, William, assignor to The Louden Machinery Company, Fairfield, Iowa. Fastener for closures. No. 1,385,563; July 26; v. 288; p. 683.

Loudensiager, Charles W., Los Angeles, Calif., (now by judicial change of name C. W. Louden.) Footwear-support. No. 1,385,328; July 19; v. 288; p. 538.

Lovejoy Tool Works. (See Shreve, Harry B., assignor.)

Lovell, Albert K., New Hartford, Conn. Spring-tire for vehicle-wheels. No. 1,385,629; July 26; v. 288; p. 696.

Lover, Edward, assignor to Lover Top and Converter Co., Inc., Buffalo, N. Y. Vehicle-top frame. No. 1,385,138; July 19; v. 288; p. 521.

Lover Top and Converter Co. (See Lover, Edward, assignor.)

Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Fuel conveying and crushing mechanism. No. 1,384,138; July 12; v. 288; p. 232.

Lowery Lock Company, The. (See Lowery, William A., assignor.)

Lowery, William A., Summit, Ga., assignor to The Lowery Lock Company. Automobile-lock. No. 1,384,075; July 12; v. 288; p. 218.

Lowndes, Frank F., Gisborne, New Zealand. Life-saving apparatus for boats. No. 1,383,551; July 5; v. 288; p. 60.

Luboshez, Nahum E., London, England, assignor to Eastman Kodak Company, Rochester, N. Y. Film-developing rack. No. 1,383,738; July 5; v. 288; p. 99.

Lucas, George W., Kansas City, Mo. Fishhook fishing-machine. No. 1,383,474; July 5; v. 288; p. 45.

Lucas, John G., Dearborn, Mich. Signal-indicator for automobiles. No. 1,385,016; July 19; v. 288; p. 495.

Lucas, Roland E. (See Kiley, J. L., and Lucas.)

Luce, Grafton E., Chicago, Ill. Manufacturing and handling brick. No. 1,384,393; July 12; v. 288; p. 285.

Luce, Grafton E., Chicago, Ill. Revolving crane for brick-handling. No. 1,384,768; July 19; v. 288; p. 444.

Luckenbach, John, Los Angeles, Calif. Apparatus for discharging liquid. No. 1,384,965; July 19; v. 288; p. 484.

Luckinbill, Benjamin E., Guthrie Center, Iowa. Watering-trough. No. 1,383,646; July 5; v. 288; p. 80.

Luden, William H. (See Weber, Walter S., assignor.)

Luedecke, Henry H., Austin, Tex. Sanitary bed-spring cover. No. 1,383,734; July 5; v. 288; p. 99.

Luedke, Frank J., Saltese, Mont. Harrow. No. 1,384,474; July 12; v. 288; p. 301.

Luehrs, Daniel M., Cleveland, Ohio. Heater for fluids. No. 1,385,564; July 26; v. 288; p. 683.

Lüft, Karl, assignor to the Firm Röhm & Haas, Darmstadt, Hessia, Germany. Silo or filling-trunk for powdered or granular matter. No. 1,385,254; July 19; v. 288; p. 544.

Luhrmann, George W., Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Method and apparatus for cooling packages in processing. No. 1,385,630; July 26; v. 288; p. 697.

Luhrmann, George W., Jersey City, N. J., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Device for controlling pressure-processing. No. 1,385,631; July 26; v. 288; p. 697.

Luke, James A. (See Smith, P. F., and Luke.)

Lumsden, Thomas, Gateshead, England. Grinding-machine. No. 1,384,966; July 19; v. 288; p. 484.

Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for and method of treating heels. No. 1,384,139; July 12; v. 288; p. 232.

Lundell, Robert, New York, N. Y. Projectile. No. 1,384,841; July 19; v. 288; p. 459.

Lundell, Victor S., and G. E. Eckberg, Jamestown, N. Y. Hinge for casement-windows. No. 1,383,647; July 5; v. 288; p. 80.

Lundquist, August, Chicago, Ill. Printing-press attachment. No. 1,384,203; July 12; v. 288; p. 245.

Lunt, Fred L., and P. F. Hatch, assignors to Amesbury Seat Manufacturing Company, Amesbury, Mass. Cowl-ventilator for motor-vehicles. No. 1,385,255; July 19; v. 288; p. 544.

Luttmer, Ludwig D., Wylie, Minn. Tool-holder. No. 1,384,669; July 12; v. 288; p. 343.

Lutz, Henry M., New York, N. Y. Glazing-clip. No. 1,385,217; July 19; v. 288; p. 536.

Lyman, Norman K., San Francisco, Calif. Cane-harvester. No. 1,383,833; July 5; v. 288; p. 119.

Lyon, Elmer E., Harrisonville, Mo. Device for checking the rocking and rebounding of vehicles. No. 1,385,565; July 26; v. 288; p. 683.

M. L. Patents Corporation. (See Lisowski, Maryan L., assignor.)

McAdoo, William S., Chicago, Ill. Combination-padlock. No. 1,383,317; July 5; v. 288; p. 12.

McAleer, John S. (See Boltone, Victor R., assignor.)

McAllaster, George R., Rochester, N. Y. Bed. No. 1,383,648; July 5; v. 288; p. 80.

McArthur, George L., Racine, Wis. Hurl sizer and shaker. No. 1,384,475; July 12; v. 288; p. 301.

McCabe, Hugh, Lawrence, Mass. Cold-dishing sheet metal. No. 1,383,475; July 5; v. 288; p. 45.

McCallan, Arthur, Ottawa, Ontario, Canada. Dustpan. No. 1,384,076; July 12; v. 288; p. 219.

McCann, Joseph H., *et al.* (See McCann, Joseph W., assignor.)

McCann, Joseph W., assignor of one-half to J. H. McCann and one-half to G. P. Kimmel, Washington, D. C. Dummy keyboard. No. 1,385,256; July 19; v. 288; p. 544.

McCloud, Edward H., assignor, by mesne assignments, to The Kinnear Manufacturing Company, Columbus, Ohio. Metallic door. No. 1,385,694; July 26; v. 288; p. 710.

McCord and Company. (See Achlacks, William J., assignor.)

McCormick, Robert R., Chicago, Ill. Paper-roll storage and delivery gallery. No. 1,383,318; July 5; v. 288; p. 12.

McCornack, Herbert, Glen Ridge, assignor to Empire Cream Separator Company, Bloomfield, N. J. Teat-cup. No. 1,385,050; July 19; v. 288; p. 502.

McCoy, James P. A., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Apparatus for applying covering of sheet material. No. 1,385,967; July 26; v. 288; p. 703.

McCrosky, Bynum B., Oakland, Calif. Ship. No. 1,384,140; July 12; v. 288; p. 232.

McCulley, Thomas A., San Francisco, Calif. Wave-motor. No. 1,385,083; July 19; v. 288; p. 509.

McDonald, Arthur A., *et al.* (See Eastman, Harry N., assignor.)

McDonald, Catharine L., Caldwell, Ohio. Emergency-brake for vehicles. No. 1,385,877; July 26; v. 288; p. 747.

McDonald, James J., Cleveland, Ohio. Trap. No. 1,384,910; July 19; v. 288; p. 472.

McDonald, John K., assignor to Theft Warning Auto Lock Corporation, Los Angeles, Calif. Theft-warning automobile-lock. No. 1,385,461; July 26; v. 288; p. 662.

McDonald, Thomas F., *et al.* (See Eastman, Harry N., assignor.)

McDonel, John W., *et al.* (See Franklin, Clarence E., assignor.)

McDonough, Joseph G., Eau Claire, Wis. Machine for trade-marking or branding lumber or timber. No. 1,383,552; July 5; v. 288; p. 61.

McFaddin, Harrison D., East Orange, N. J. Attachment for desk-lamps. No. 1,384,394; July 12, v. 288; p. 285.

McFaddin, Harrison D., East Orange, N. J. Shade-holder. No. 1,384,395; July 12; v. 288; p. 285.

McGill, George F. (See Bruhn, M. C., and McGill.)

McGill, George F., and M. C. Bruhn, Chicago, Ill. Portable change-maker. No. 1,385,382; July 26; v. 288; p. 645.

McGinn, Charles, Cleveland, Ohio. Advertising device. No. 1,383,828; July 5; v. 288; p. 118.

McGinnis, Daniel, St. Maries, Idaho. Jammer-hook. No. 1,383,649; July 5; v. 288; p. 81.

McGregor, Herbert O., Morgantown, W. Va. Combined tie and boltless rail-joint. No. 1,384,700; July 12; v. 288; p. 349.

McGuire, Frederick T. (See Ander, A., and McGuire.)

McGurn, Matthew S., assignor to Poole Bros., Chicago, Ill. Carton. No. 1,383,735; July 5; v. 288; p. 99.

McIntyre, Allen H., assignor to Skinner Machinery Company, Dunedin, Fla. Fruit-sizing machine. No. 1,385,218; July 19; v. 288; p. 537.

McIntyre, John, Portobello, assignor of one-half to J. Milne and Son Limited, Edinburgh, Scotland. Cylinder drying-machine. No. 1,383,553; July 5; v. 288; p. 61.

McIntyre, Maurice T., Brooklyn, N. Y. Direction-indicator. No. 1,385,219; July 19; v. 288; p. 537.

McKellar, Archibald D., Chicago, Ill. Sign. No. 1,384,911; July 19; v. 288; p. 472.

McKeown, Samuel C., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Connecting means for induction-coils used in radio and ignition systems. No. 1,385,566; July 26; v. 288; p. 683.

McKinley, Charles W., assignor to The Willys-Overland Company, Toledo, Ohio. Vehicle-body. No. 1,383,412; July 5; v. 288; p. 32.

McKinley, William. (See Reese Richard E., assignor.)

McKoy, Edwin A., and G. D. Moore, New Orleans, La. Disintegrating and conserving mechanism. (Reissue.) No. 15,145; July 26; v. 288; p. 766.

McLean, Donald W., Glencoe, Ontario, Canada. Generator. No. 1,385,257; July 19; v. 288; p. 544.

McLean, George W., and E. J. Shur, New Orleans, La. Checking device. No. 1,383,834; July 5; v. 288; p. 120.

McMahan, Charles S., Orlando, Fla. Game apparatus. No. 1,383,736; July 5; v. 288; p. 100.

McMahon, James T. (See Lapham, Jarad S., assignor.)

McMahon, Nora E., Columbia, Tenn. Indicating-plate. No. 1,384,912; July 19; v. 288; p. 473.

McMaster, George E., Bellingham, Wash. Advertising device. No. 1,383,413; July 5; v. 288; p. 33.

McMullen, Charles. (See Miller, A. G., and McMullen.)

McNabb, Alexander, Bridgeport, Conn. Anchor. No. 1,385,921; July 26; v. 288; p. 755.

McNally, Leo F., Brooklyn, N. Y., assignor to D. W. Pye, Red Bank, N. J. Latch. No. 1,385,632; July 26; v. 288; p. 697.

McNaughton, William W., Billings, Mont. Valve-lifting device. No. 1,384,535; July 12; v. 288; p. 314.

McMonegal, William F., Hazleton, Pa. Shovel-tooth. No. 1,384,701; July 12; v. 288; p. 350.

McMurdie, Francis, Kalamazoo, Mich. Blast-gate. No. 1,384,204; July 12; v. 288; p. 245.

McPeek, Edison, Sardis, Ohio. Piston-ring placer. No. 1,385,922; July 26; v. 288; p. 755.

McQuagge, William A., Marianna, Fla. Emergency-axle. No. 1,383,554; July 5; v. 28; p. 61.

McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for recording and reproducing sound. No. 1,383,737; July 5; v. 288; p. 100.

McRae, Christopher, San Francisco, Calif. Broom or mop holder. No. 1,384,619; July 12; v. 288, p. 332.

McSwain, William H., Moundsville, W. Va. Manufacture of glassware. No. 1,384,967; July 19; v. 288; p. 484.

McSwiney, Daniel J., Chelsea, assignor to F. R. Mullin, Winchester, Mass. Emulsifying oil or asphalt. No. 1,384,805; July 19; v. 288; p. 451.

McVittie, Henry, assignor of one-half to J. R. Tripoli, Bend, Oreg. Door-latch. No. 1,384,620; July 12; v. 288; p. 332.

MacBeth, Donald, Montreal, Quebec, Canada. Lifeboat-supporting apparatus. No. 1,385,258; July 19; v. 288; p. 544.

MacCormack, David D. and M. A., Boston, Mass. Carrier for laundry articles. No. 1,385,695; July 26; v. 288; p. 710.

MacCormack, Mary A. (See MacCormack, David D. and M. A.)

Macdonald, Frank D., Syracuse, N. Y. Safety appliance for street-cars. No. 1,385,259; July 19; v. 288; p. 545.

Macdonald, George C., Elmhurst, N. Y. Merchandise-package. No. 1,385,017; July 19; v. 288; p. 495.

MacDonald, George M., San Bernardino, Calif. Artificial honeycomb and the art of and means for making the same. No. 1,383,650; July 5; v. 288; p. 81.

MacDonnell, James, Haverhill, Mass. Cigarette-former. No. 1,385,018; July 19; v. 288; p. 496.

MacDougal, Daniel T., Tucson, Ariz. Tree-growth-measuring instrument. No. 1,385,139; July 19; v. 288; p. 521.

Macfarlane Communications Corporation. (See Macfarlane, William W., assignor.)

MacFarlane, John M., San Francisco, Calif. Rotary engine. No. 1,385,084; July 19; v. 288; p. 509.

Macfarlane, William W., Elkins Park, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y. Track-circuit system. No. 1,383,319; July 5; v. 288; p. 12.

Macfarlane, William W., Elkins Park, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y. Track-circuit system. No. 1,383,320; July 5; v. 288; p. 13.

MacGill, Charles F. (See Smith, Charles G., assignor.)

Mac Kellar, Robert E. (See Ellsworth, W., and Mac Kellar.)

MacLaren, Frederick B., Jersey City, N. J., assignor to Electric Gun Corporation, Philadelphia, Pa. Electric gun. No. 1,384,769; July 19; v. 288; p. 444.

MacLean, Andrew D., Toronto, Ontario, Canada. Disappearing-propeller device for boats. No. 1,385,488; July 26; v. 288; p. 667.

MacMahon, James H., Saltville, Va., assignor to The Methieson Alkali Works, Inc., New York, N. Y. Ammonia-soda process. No. 1,384,141; July 12; v. 288; p. 232.

Madden, Bert L., assignor to Cyclo-Motor Corporation, Rochester, N. Y. Lubricating device. No. 1,384,536; July 12; v. 288; p. 314.

Maes, Louis A. F. (See Doell, T. W., and Maes.)

Maes, Robert, Calgary, Alberta, Canada. Pulsator for milking-machines. No. 1,384,266; July 12; v. 288; p. 258.

Magee, Allan A. (See Chapdelaine, Norbert, assignor.) (Reissue.)

Magnetic Manufacturing Company. (See Bethke, John F., assignor.)

Mahoney, Francis J., Edgewater, N. J. Bottle attachment. No. 1,385,085; July 19; v. 288; p. 509.

Maines, Ralph, *et al.* (See Abernathy, Benjamin H., assignor.)

Maire, Auguste, Argenteuil, assignor to Societe Lorraine des Anciens Etablissements de Dietrich & Cie. de Luneville, Paris, France. Apparatus for measuring the hardness of bodies. No. 1,385,182; July 19; v. 288; p. 530.

Major, Walter C., Niagara-on-the-Lake, Ontario, Canada. Hose-supporting bridge. No. 1,384,621; July 12; v. 288; p. 332.

Malecki, Walenty J., East Pittsburgh, Pa. Ratchet-screwdriver. No. 1,384,032; July 5; v. 288; p. 160.

Malocsay, Frank, New York, N. Y., assignor to Sonora Phonograph Corporation. Automatic stop. No. 1,383,651; July 5; v. 288; p. 81.

Malone, Ernest J., assignor to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Ironing-machine. No. 1,383,738; July 5; v. 288; p. 100.

Maloney, James T., Tulsa, Okla., Fishing-tool. No. 1,385,633; July 26; v. 288; p. 697.

Maloney, Joseph F., Cleveland, Ohio. Air-moistener. No. 1,384,702; July 12; v. 288; p. 350.

Maloney, Joseph F., Cleveland, Ohio. Lubricating-oil. No. 1,384,703; July 12; v. 288; p. 350.

Memmen, Lawrence W., Chicago, Ill. Driving mechanism for laundry machines. No. 1,384,267; July 12, v. 288; p. 258.

Manhatten Electrical Supply Company. (See Schwartz, Edward, assignor.)

Manifold Printing Company, The. (See Mayer, G. A., and Murray, assignors.)

Manitus, Otto. (See Simonson, W. H., and Manitus.)

Manker, Roy J. (See Rogers, A. D., and Manker.)

Manly, Charles M., Buffalo, N. Y. Steering-gear for ships. No. 1,385,840; July 26; v. 288; p. 739.

Mansell, Walter H., Grays, England. Nut-lock and the like. No. 1,383,414; July 5; v. 288; p. 33.

Manufactur de Produits Chimiques du Nord, Etablissements Kuhlmann. (See Geschwind, Lucien, assignor.)

Manutil Corporation, The. (See Buskard, Samuel G., assignor.)

Maranville, Alger G., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Automatic gas-valve. No. 1,384,268; July 12; v. 288; p. 259.

Maranville, Harvey F., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Holder for rubber-heel washers. No. 1,385,086; July 19; v. 288; p. 510.

Marchisio, Arthur C. J., Paris, France. Imitation-copper-engraving process. No. 1,385,567; July 26; v. 288; p. 684.

Marcy, Frank E., Salt Lake City, Utah. Flotation apparatus. No. 1,383,321; July 5; v. 288; p. 13.

Marion Machine Foundry and Supply Company, The. (See Smith, E. B., and Loucks, assignors.)

Maris, Joseph G., Detroit, Mich. Danger or stop and direction signal. No. 1,384,205; July 12; v. 288; p. 245.

Marquardt, Julius H., Lombard, Ill. Combined spark-plug holder and tester. No. 1,383,476; July 5; v. 288; p. 45.

Marquette, Melvon A., assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Tube-splicing. No. 1,385,220; July 19; v. 288; p. 537.

Marquette, Melvon A., Springfield, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Reinforcement for tire-beads. No. 1,385,383; July 26; v. 288; p. 645.

Marr, Arthur P., Brooklyn, assignor to Oceanic Salvage Corporation, New York, N. Y. Flexible joint for diving-armor. No. 1,383,322; July 5; v. 288; p. 13.

Marsek, Steven, New York, N. Y. Aeroplane. No. 1,383,652; July 5; v. 288; p. 81.

Marsh, William R., Muskogee, Okla. Windshield-shade. No. 1,383,323; July 5; v. 288; p. 13.

Marshall, Dale, Cheltenham, England. Wheel having self-contained motor. No. 1,384,142; July 12; v. 288; p. 233.

Marshall, Norman. (See Bell, L., and Marshall.)

Marshall, Norman, and L. Bell, West Newton, Mass. Method and apparatus for utilization of observable radiations. No. 1,385,996; July 26; v. 288; p. 710.

Marshall, Percy A., Los Angeles, Calif. Mechanical toy. No. 1,385,634; July 26; v. 288; p. 698.

Martell, Albert A., assignor to The Taft-Peirce Manufacturing Company, Woonsocket, R. I. Mounting for reamer-blades. No. 1,383,835; July 5; v. 288; p. 120.

Martell, Charles B., New Orleans, La. Portable rack or frame. No. 1,383,324; July 5; v. 288; p. 13.
Martin, Adolphus J., Passaic, N. J. Wooden shell. No. 1,385,635; July 26; v. 288; p. 698.
Martin, Frederick D., Kansas City, Mo. Gromet. No. 1,384,565; July 12; v. 288; p. 320.
Martin, Harold G., Philadelphia, Pa., assignor of one-half to M. H. Newgirg, Baltimore, Md. Bearing-brass. No. 1,383,958; July 5; v. 288; p. 145.
Martin, Harry P., Clearfield, Pa. Road-construction machinery. No. 1,384,077; July 12; v. 288; p. 219.
Martin, John, Amorita, Okla. Clamp-belt guide. No. 1,385,878; July 26; v. 288; p. 747.
Martin, Mrs. William P., *et al.* (See Box, John V., assignor.)
Martin, Ralph, Winslow, Ind. Screen-hood. No. 1,383,959; July 5; v. 288; p. 145.
Martin, Thomas T., Mobile, Ala. Calendar. No. 1,385,140; July 19; v. 288; p. 521.
Marvin, Sylvester S., Bryn Mawr, and W. Muns, Philadelphia, assignors to Pennsylvania Chocolate Company, Pittsburgh, Pa. Candy and chocolate machine. No. 1,385,462; July 26; v. 288; p. 662.
Marx, George G., Jackson, Mich. Automatic hood-clamp. No. 1,385,568; July 26; v. 288; p. 684.
Maschek, Louis, and J. A. Niblo, Kansas City, Mo. Brake mechanism. No. 1,383,325; July 5; v. 288; p. 14.
Maschinenfabrik Worzeldorf H. A. Paulus & Franck. (See Edel, Max, assignor.)
Masek, John F., deceased; K. Masek, administratrix, assignor to J. Holoubek, New York, N. Y. Collapsible trap. No. 1,383,992; July 5; v. 288; p. 152.
Masek, Karolina, administratrix. (See Masek, John F.)
Mashek, Frank, Chicago, Ill. Brief-case. No. 1,385,884; July 26; v. 288; p. 646.
Mason, William H., Haverford, Pa. Apparatus for and process of constructing and launching concrete ships. No. 1,383,653; July 5; v. 288; p. 82.
Master, Shaverksha D., Bombay, India. Wave-motor. No. 1,385,879; July 26; v. 288; p. 747.
Master, Shaverksha D., Bombay, India. Rotary engine. No. 1,385,880; July 26; v. 288; p. 747.
Master, Shaverksha D., Bombay, India. Trolley-wheel. No. 1,385,881; July 26; v. 288; p. 747.
Master, Shaverksha D., Bombay, India. Tire. No. 1,385,882; July 26; v. 288; p. 747.
Masury, Alfred F., and A. H. Leipert, assignors to International Motor Company, New York, N. Y. Yielding support for brake-rods. No. 1,385,463; July 26; v. 288; p. 662.
Matchett, George H., Lakewood, Ohio. Vending-machine. No. 1,385,087; July 19; v. 288; p. 510.
Matheson, Howard W., Shawinigan Falls, Quebec, Canada. Manufacturing acetaldehyde. No. 1,384,842; July 19; v. 288; p. 459.
Mathews, Annie, *et al.*, administrators. (See Mathews, Thomas.)
Mathews, Thomas, deceased, by A. Mathews, Leicester, and H. Buckingham, London, England, administrators. Paper and like toy. No. 1,383,836; July 5; v. 288; p. 120.
Mathieu, Charles, New York, N. Y. Balancing toy. No. 1,384,476; July 12; v. 288; p. 301.
Mathieu, Eugène, Neuilly-sur-Seine, France. Hydraulic valve. No. 1,385,019; July 19; v. 288; p. 496.
Mathy, Maurice, Liege, Belgium. Apparatus for cooling materials. No. 1,385,636; July 26; v. 288; p. 698.
Mattern, George W., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Golf-club. No. 1,383,654; July 5; v. 288; p. 82.
Matthes, Samuel S. (See Robbins, E. P., and Matthes.)
Matthews, Fred E., Leonia, N. J. Fluid-pressure apparatus. No. 1,384,477; July 12; v. 288. p. 302.
Mattix, Jacob M., Louise, Miss. Timber-roller-supporting device for cars. No. 1,384,770; July 19; v. 288; p. 444.
Maule, Harvey G., Seattle, assignor of one-half to R. A. Pearce, King county, Wash. Valve. No. 1,385,183; July 19; v. 288; p. 530.
Maurice, Edward, Melbourne, Victoria, Australia. Combined cycle stand and lock. No. 1,385,020; July 19; v. 288; p. 496.
Maxim Manufacturing Company. (See Smith, Charles F., assignor.)
Maxwell, George H. (See Hogue, Oliver D., assignor.)
Maxwell, William J., Jr., New York, N. Y. Musical instrument. No. 1,384,843; July 19; v. 288; p. 459.
May, Cyril H., Ironwood, Mich. Keyhole-finder. No. 1,384,622; July 12; v. 288; p. 333.
May, Theodore W., assignor of one-half to W. F. Buckingham, Chicago, Ill. Self-supporting golf-bag. No. 1,384,078; July 12; v. 288; p. 219.
Mayer, Frank H., Denver, Colo. Gearing for washing-machines. No. 1,385,464; July 26; v. 288; p. 662.
Mayer, Frank H., Denver, Colo. Washing-machine. No. 1,385,748; July 26; v. 288; p. 720.
Mayer, George A., and H. E. Murray, assignors to The Manifold Printing Company, Cleveland, Ohio. Producing multicopy forms or blanks. No. 1,385,569; July 26; v. 288; p. 684.
Mayer, Walter S., assignor to Electric Service Supplies Company, Philadelphia, Pa. Light-focusing mechanism. No. 1,385,697; July 26; v. 288; p. 710.
Mayer, Walter S., assignor to Electric Service Supplies Company, Philadelphia, Pa. Suspension-clamp. No. 1,385,698; July 26; v. 288; p. 711.
Mayer, Walter S., assignor to Electric Service Supplies Company, Philadelphia, Pa. Lens-holder. No. 1,385,699; July 26; v. 288; p. 711.
Massaceo, James, Gallup, N. Mex. Leveling and measuring instrument. No. 1,383,960; July 5; v. 288; p. 145.
Meade, Wyman H., and S. H. Friestedt, Camden, N. J. Finishing leather. No. 1,385,184; July 19; v. 288; p. 530.
Meador, Robert T., trustee. (See Crotto, Frank E., assignor.)
Meadows, W. C., Mill Company. (See Gould, Aaron P., assignor.)
Meahl, Philip J., Summit, N. J. Machine for marking perforated music-rolls. No. 1,385,185; July 19; v. 288; p. 530.
Mechanical Manufacturing Company, The. (See Stallman, Granville H., assignor.)
Meek, William F., Tampico, Mexico. Barrel-protector. No. 1,384,704; July 12; v. 288; p. 350.
Megill, Edward L., New York, N. Y. Printing-press gage. No. 1,385,637; July 26; v. 288; p. 698.
Meier, Edna F., Denver, Colo. Child's waist. No. 1,385,221; July 19; v. 288; p. 537.
Meldrum, Charles. (See Wall, J. M., and Meldrum.)
Mellish, Thomas G., Cincinnati, Ohio. Holder for fruit-jars. No. 1,385,841; July 26; v. 288; p. 739.
Melling, Herman W., Jackson, Mich. Work-holder. No. 1,384,079; July 12; v. 288; p. 219.
Mellor, Alfred S., Cambridge, Mass. Vise. No. 1,385,088; July 19; v. 288; p. 510.
Melugin, Frank, Webb City, Mo. Gate-hinge. No. 1,383,961; July 5; v. 288; p. 145.
Menk, Rudolph W., Joliet, assignor to The Excelsior Steel Furnace Company, Chicago, Ill. Cold-air-supply device for heaters. No. 1,383,477; July 5; v. 288; p. 46.
Meredith, Jaquelin M., Jr., Norfolk, Va. Detachable gear for automobiles. No. 1,384,623; July 12; v. 288; p. 333.
Mergenthaler Linotype Company. (See Sherrill, Luther, assignor.)
Merren, John J., Port Arthur, Tex. Self-lining interlocking building-block. No. 1,384,080; July 12; v. 288; p. 219.
Merriam, Henry F., Maplewood, N. J., assignor to General Chemical Company, New York, N. Y. Making contact sulfuric acid. No. 1,384,566; July 12; v. 288; p. 321.
Merritt, Benjamin F., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,384,396; July 12; v. 288; p. 285.
Merritt, Clifford F., *et al.* (See Shrum, Will N., assignor.)
Messenger, Charles O., Astoria, Oreg. Saw. No. 1,385,385; July 26; v. 288; p. 646.
Methieson Alkali Works, The. (See MacMahon, James H., assignor.)
Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Production of hydrocyanic acid. No. 1,385,335; July 19; v. 288; p. 559.
Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Production of hydrocyanic acid. No. 1,385,336; July 19; v. 288; p. 559.
Meyer, Geo. J., Manufacturing Company. (See Meyer, George J., assignor.)
Meyer, George J., assignor to Geo. J. Meyer Manufacturing Company, Milwaukee, Wis. Unloader for bottle-washers. No. 1,383,739; July 5; v. 288; p. 100.
Meyer, Walter, Burgdorf, Switzerland. Manufacture of insulating fibrous webs for electric insulation purposes. No. 1,383,740; July 5; v. 288; p. 100.
Meyer, William, Chicago, Ill. X-ray apparatus. No. 1,384,143; July 12; v. 288; p. 233.
Meyer, William, Chicago, Ill. X-ray apparatus. No. 1,384,144; July 12; v. 288; p. 233.
Meyer, William, Jamestown, R. I. Deck-plate key. No. 1,384,705; July 12; v. 288; p. 350.
Meyers, M. Jay, *et al.* (See Bruner, Rudolph, assignor.)
Meyner, Walter, New York, N. Y. Pencil. No. 1,384,706; July 12; v. 288; p. 351.
Miami Cycle & Mfg. Co., The. (See Heise, Roscoe S., assignor.)
Michon, Joseph H. M., Baltimore, Md. Accelerator. No. 1,383,326; July 5; v. 288; p. 14.
Middeldorf, Robert, Solingen, Germany. Double-acting machine for cutting the teeth in safety-razor guards. No. 1,384,328; July 12; v. 288; p. 271.
Miehle Printing Press & Manufacturing Company. (See Henderson, Carl, assignor.)
Miehle Printing Press and Mfg. Co. (See Rich, Frank E., assignor.)
Milam, Stanley, Augusta, Mont. Curling-iron heater. No. 1,385,465; July 26; v. 288; p. 663.
Milinowski, Arthur S., Brockport, N. Y. Calculating-machine. No. 1,385,700; July 26; v. 288; p. 711.
Miller, Alphons G., and C. McMullen, Flemington, N. J. Lens. No. 1,385,570; July 26; v. 288; p. 684.
Miller, Arthur, Brooklyn, N. Y. Garden-tool. No. 1,385,089; July 19; v. 288; p. 510.
Miller, Arthur E., Sacramento, Calif. Steering-post-locking means. No. 1,384,707; July 12; v. 288; p. 351.
Miller, Charles, New York, N. Y. Time combination-lock. No. 1,384,397; July 12; v. 288; p. 285.
Miller, Charles E., Pittsburgh, Pa. Supporting-bracket. No. 1,385,688; July 26; v. 288; p. 698.
Miller, Eli J., York, Pa. Nail-strip holder. No. 1,383,993; July 5; v. 288; p. 152.
Miller, Frank R., Springfield, Ill. Road-drag. No. 1,385,789; July 26; v. 288; p. 729.

Miller, Harry M. (See Bost, W. D., and Miller.)
Miller, Joe, Little Rock, Ark. Gas-burner. No. 1,383,741; July 5; v. 288; p. 101.
Miller, Joe, Buffalo, N. Y. Valve-grinder. No. 1,384,624; July 12; v. 288; p. 333.
Miller, Joseph C., North St. Paul, Minn. Combination spark-plug-testing and gap-adjusting device. No. 1,385,222; July 19; v. 288; p. 537.
Miller Lock Company. (See Soley, Frank, assignor.)
Miller-Saw-Trimmer Company. (See Garwood, William M., assignor.)
Milliken, Foster, *et al.*, trustees. (See Milliken, Foster, assignor.)
Milliken, Foster, Lawrence, N. Y., assignor to F. Milliken, S. F. Weaver, and J. M. Repplier, as trustees. Alloy. No. 1,385,223; July 19; v. 288; p. 538.
Mills Belt Company. (See Lethern, Albert A., assignor.)
Mills, James H., Gallipolis, Ohio. Inner-tube receptacle. No. 1,383,962; July 5; v. 288; p. 145.
Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Radio receiving system. No. 1,385,090; July 19; v. 288; p. 510.
Mills, John, Wyoming, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling. No. 1,385,091; July 19; v. 288; p. 511.
Mills, Louis D., Redwood City, Calif. Recovering valuable solution from mixtures. No. 1,385,701; July 26; v. 288; p. 711.
Mills, Mortimer B., Chicago, Ill. Weight-supporting platform. No. 1,384,478; July 12; v. 288; p. 302.
Milmoe, Michael J., assignor to F. B. Redington Company, Chicago, Ill. Carton-filling machine. No. 1,384,844; July 19; v. 288; p. 459.
Milne, James, and Son. (See McIntyre, John, assignor.)
Milner, Nugent, assignor to H. H. Babcock Company, Watertown, N. Y. Road-vehicle of the motor-truck type. No. 1,384,269; July 12; v. 288; p. 259.
Milnes, John J., Jr., Port Richmond, N. Y. Mold-support. No. 1,383,837; July 5; v. 288; p. 120.
Minck, Paul H., Petersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Manufacturing a wool substitute from cellulose and similar solutions. No. 1,383,742; July 5; v. 288; p. 105.
Miner, William H. (See O'Connor, John F., assignor.)
Mintz, Harry, Boston, Mass. Folding frame. No. 1,385,021; July 19; v. 288; p. 496.
Miserocchi, Guido, Philadelphia, Pa. Concrete railway-tie. No. 1,383,327; July 5; v. 288; p. 14.
Mitchell, J. Ernest. (See Ellerman, Edward, assignor.)
Mitchell, Joseph K., Los Angeles, Calif. Double-current syringe. No. 1,384,771; July 19; v. 288; p. 444.
Mitiska, Carl J., Howell, Ind. Stove. No. 1,384,772; July 19; v. 288; p. 445.
Mock, Nate, London, England. Stamp-inking pad. No. 1,385,022; July 19; v. 288; p. 496.
Moler, Vandivere B. (See Georgi, Constantin, assignor.)
Molony, Stuart B., Wellesley Hills, Mass. Utilising vulcanized waste rubber. No. 1,384,773; July 19; v. 288; p. 445.
Molyneux, George E., Bayonne, N. J., assignor to The Singer Manufacturing Company. Joining fabric sections. No. 1,384,845; July 19; v. 288; p. 460.
Monarch Tag Company, The. (See Kohnle, Frederick, assignor.)
Mongan, John P., Minneapolis, Minn. Locomotive-boiler. No. 1,385,386; July 26; v. 288; p. 646.
Monlon, Basil, assignor of one-half to H. D. Coles, Palms, Calif. Shell magazine and feeder. No. 1,384,145; July 12; v. 288; p. 233.
Mooney, James J., and R. E. Bennett, Wichita Falls, Tex. Portable locomotive-valve-seating machine. No. 1,385,344; July 19; v. 288; p. 561.
Monroe Calculating Machine Company. (See Britten, Edwin F., Jr., assignor.)
Monroe Calculating Machine Company. (See Phinney, Edgar E., assignor.)
Montaruli, Giuseppe V., Rome, Italy. Tubular ship's hull. No. 1,385,790; July 26; v. 288; p. 729.
Montel, Alva, Claypool, Ind. Vehicle-body hanger. No. 1,383,415; July 5; v. 288; p. 33.
Montgomery, Donn H., Denver, Colo. Spring for motor-vehicles. No. 1,384,146; July 12; v. 288; p. 233.
Monto, Joseph, Cleveland Heights, and A. R. Curtis; said Curtis assignor to J. Hays, Cleveland, Ohio. Metal-coating machine. No. 1,383,555; July 5; v. 288; p. 61.
Montrose, Frank, Cleveland, Ohio. Check-printing machine. No. 1,384,708; July 12; v. 288; p. 351.
Moore, Edward Y., Cleveland, Ohio. Trolley-hoisting mechanism. No. 1,384,709; July 12; v. 288; p. 351.
Moore, Frank, Los Angeles, Calif. Testing device for transmission-line insulators. No. 1,385,639; July 26; v. 288; p. 699.
Moore, Frederick A. (See Dupré, Wilfred, assignor.)
Moore, George D. (See McKoy, E. A., and Moore.) (Reissue.)
Moore, Warren K., New Castle, Pa. Apparatus for dressing engine-cylinders. No. 1,384,625; July 12; v. 288; p. 333.
Morandi, Giuseppe, Florence, Italy. Wooden article and making the same. No. 1,385,887; July 26; v. 288; p. 646.
Mordey, William M., Westminster, England. Heat treatment of tramway and other rails. No. 1,383,963; July 5; v. 288; p. 146.
Morell, Elgin, New York, N. Y. Sheet-counter. No. 1,384,710; July 12; v. 288; p. 351.
Moren, Swan E., Biwabik, Minn. Briquet-machine. No. 1,384,206; July 12; v. 288; p. 245.
Morgan Construction Company. (See Carroll, Elbert H., assignor.)
Morgan, David F., Atlanta, Ga. Toy. No. 1,385,883; July 26; v. 288; p. 748.
Morgan & Wright. (See Abbott, Adrian O., Jr., assignor.)
Morgan and Wright. (See Davis, Merrill, assignor.)
Mori, Katsukichi, Tokyo, Japan. Water-meter. No. 1,384,329; July 12; v. 288; p. 271.
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Morris, James W., and J. L. Ruddick, Oakland, Calif. Mop-head. No. 1,384,147; July 12; v. 288; p. 234.
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Mortimer, Charles G., East Orange, N. J., assignor to National Binding Machine Company, New York, N. Y. Strip-serving machine. No. 1,384,082; July 12; v. 288; p. 220.
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Mueller, Adolph, trustee. (See Mueller, P., Schuermann, and Mueller, assignors.)
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Mueller, Theodore C., assignor of one-half to W. L. Kemper, Topeka, Kans. Sealing device. No. 1,385,749; July 26; v. 288; p. 721.
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Mulvihill, Daniel C., Hannibal, Mo. Switch stand and target. No. 1,384,148; July 12; v. 288; p. 234.
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Münder y Barrié, Arturo, Habana, Cuba. Faucet. No. 1,384,670; July 12; v. 288; p. 343.

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Murdock, Kelso, assignor to The Murdock Manufacturing and Supply Co., Cincinnati, Ohio. Supply and drain cap for antifreeze-hydrants. No. 1,385,572; July 26; v. 288; p. 685.
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Murphy, Daniel E., assignor of one-half to E. M. Fry, Uniontown, Pa. Wheel-hub-locking device. No. 1,384,083; July 12; v. 288; p. 220.
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Murphy, Michael, Youngstown, Ohio. Safety connecting-rod for automatic stokers. No. 1,384,270; July 12; v. 288; p. 259.
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Murray, Ray M., Billings, Mont. Reversible fan. No. 1,384,672; July 12; v. 288; p. 344.
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Muzzy, William H., Chicago, Ill. Fuel-feeding system for automobiles. No. 1,385,337; July 19; v. 288; p. 559.
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Myers, Hubert A., assignor to Toledo Scale Company, Toledo, Ohio. Ticket-issuing mechanism. No. 1,385,388; July 26; v. 288; p. 646.
Myers, Jacob S., assignor to W. M. Baechtel and J. K. Hoffman, Hagerstown, Md. Wagon-hayrack carriage. (Reissue.) No. 15,158; July 19; v. 288; p. 563.
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Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,385,141; July 19; v. 288; p. 521.
Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,385,142; July 19; v. 288; p. 522.
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Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,385,145; July 19; v. 288; p. 522.
Myers, Philip A., assignor to F. E. Myers and Brother, Ashland, Ohio. Power-head. No. 1,385,146; July 19; v. 288; p. 523.
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Myers, William H., assignor to Union Stove Works, New York, N. Y. Composite stove. No. 1,383,965; July 5; v. 288; p. 146.
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Nachand, Clyde V., and E. M. Rahm, Jeffersonville, Ind. Demountable rim. No. 1,384,774; July 19; v. 288; p. 445.
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National Brake & Electric Company. (See Aikman, Burton S., assignor.)
National Carbon Company. (See Alschuler, Ernest, assignor.)
National Carbon Company. (See Gillette, John C., assignor.)
National Carbon Company. (See Hambuechen, Carl, assignor.)
National Cash Register Company, The. (See Kirahner, Arthur C., assignor.)
National Cash Register Company, The. (See Skerl, Francesco, assignor.)
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Naugle, Harry M., assignor to The Alloy Parts Manufacturing Company, Canton, Ohio. Lubricating-bolt. No. 1,384,271; July 12; v. 288; p. 259.
Naul, James M., Pittsfield, Mass., assignor, by mesne assignments, to American Bosch Magneto Corporation, New York, N. Y. Electric switch. No. 1,383,330; July 5; v. 288; p. 15.
Neal, Albert, Kokomo, Ind. Lifting-jack. No. 1,384,539; July 12; v. 288; p. 315.
Neal, Albert, Kokomo, Ind. Lifting-jack. No. 1,385,489; July 26; v. 288; p. 668.
Neale, Frank T., Carnegie, Pa. Reel structure. No. 1,385,092; July 19; v. 288; p. 511.
Near, Albert E., executor. (See Johnston, Samuel.)
Nebel, Kurt, Chicago, Ill. Adjustable sink. No. 1,385,262; July 19; v. 288; p. 545.
Needham, William H., assignor to Boston Pressed Metal Company, Worcester, Mass. Mechanism for treating metal articles. No. 1,383,418; July 5; v. 288; p. 33.
Neely, William A., deceased, Lynn, Mass.; J. S. Richardson, administratrix. Trimming device for sewing-machines. No. 1,385,329; July 19; v. 288; p. 558.
Neerup, Einar, Chicago, Ill. Hydrometer-syringe. No. 1,384,399; July 12; v. 288; p. 286.
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Nelson, George H. and H. E. Smith, London, England. Burner for petrol air-gas. No. 1,385,263; July 19; v. 288; p. 545.
Nelson, John R., Jefferson, Tex. Mower. No. 1,383,656; July 5; v. 288; p. 82.
Newgirg, Michael H. (See Martin, Harold G., assignor.)
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Lubricating device for chain-pins. No. 1,385,968; July 26; v. 288; p. 764.
Newman, Arthur S., Highgate, London, assignor of one-third to T. H. Bolam and one-third to Sidney N. Barnard, London, England. Means for joining the ends of cinematograph-films. No. 1,383,745; July 5; v. 288; p. 101.
Newton, Charles H., Plainville, Conn. Lubricant-conduit. No. 1,383,746; July 5; v. 288; p. 102.
Niblo, James A. (See Maschek, L., and Niblo.)
Nickerson, Bernard S., Boston, Mass. Spring-motor-controlling mechanism. No. 1,384,272; July 12; v. 288; p. 260.
Nicholas Power Company. (See Power, Nicholas, assignor.)
Nickerson, Charles F., Reading, Mass. Pulley-adapter. (Reissue.) No. 15,159; July 19; v. 288; p. 564.
Nielsen, Lauritz F., assignor to The Allied Tractor Company, Minneapolis, Minn. Tractor. No. 1,384,968; July 19; v. 288; p. 484.
Nielsen, Niels D., Elyria, Ohio. Heating and cooling apparatus. No. 1,383,419; July 5; v. 288; p. 34.
Niemann, Skjold J., St. Paul, Minn. Swimming-glove. No. 1,384,673; July 12; v. 288; p. 344.
Nishimoto, Risaku, Tacoma, Wash. Vacuum-cleaner. No. 1,385,573; July 26; v. 288; p. 685.
Nixon, Arthur, Manchester, England. India-rubber composition. No. 1,384,400; July 12; v. 288; p. 286.
Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Making flexible sleeve-valves. No. 1,383,747; July 5; v. 288; p. 102.
Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Sleeve-valve engine. No. 1,384,401; July 12; v. 288; p. 286.
Noelting, William H., Evansville, Ind. Caster. No. 1,383,557; July 5; v. 288; p. 62.
Noguera, Juan, Buenos Aires, Argentina. Air-compressor. No. 1,383,657; July 5; v. 288; p. 82.
Nolche, Cecil. (See Bussier, Thomas O., assignor.)
Nolte, Herbert, *et al.* (See Faust, Casper, assignor.)
Nonneman, Ira W., assignor to The Borden Company, Warren, Ohio. Pipe-cutter. No. 1,384,208; July 12; v. 288; p. 246.
Nordstrom, Elof, Newark, N. J., assignor, by mesne assignments, to American Dan Bottle Seal Corporation. Index mechanism. No. 1,383,331; July 5; v. 288; p. 15.
Nordstrom, George W., Brooklyn, N. Y. Raising and lowering device for hatch-ventilators. No. 1,385,574; July 26; v. 288; p. 685.
Northern Equipment Company. (See Veenschoten, Vincent V., assignor.)
Northrop, Charles E., Dayton, Ohio. Carbureter-lock. No. 1,384,674; July 12; v. 288; p. 344.
Northrop, Jonas, Hopedale, assignor to Hopedale Manufacturing Company, Milford, Mass. Wind-up mechanism for looms. No. 1,383,478; July 5; v. 288; p. 46.
Norlund, Olof A., Williamsport, Pa. Tire-removing tool. No. 1,385,948; July 26; v. 288; p. 760.
Norrie, James, Quincy, Mass. Mangle. No. 1,385,703; July 26; v. 288; p. 712.
Norrie, James, Quincy, Mass. Mangle. No. 1,385,704; July 26; v. 288; p. 712.
Norris, John B., San Francisco, Calif. Coin-handling device. No. 1,385,885; July 26; v. 288; p. 748.
Norton, A. O., Inc. (See Lombard, Walter E., assignor.)
Norton, Allen B., assignor to The Aluminum Castings Company, Cleveland, Ohio. Treating castings. No. 1,384,033; July 5; v. 288; p. 160.
Norton, Charles H., assignor to Norton Company, Worcester, Mass. Driving and reversing mechanism. No. 1,385,969; July 26; v. 288; p. 764.
Norton, Charles H., assignor to Norton Company, Worcester, Mass. Reversing mechanism. No. 1,385,970; July 26; v. 288; p. 764.
Norton Company. (See Norton, Charles H., assignor.)

Norton Door Check Company. (See Norton, Lewis C., assignor.)
Norton, Lewis C., assignor to Norton Door Check Company, Chicago, Ill. Door-controlling device. No. 1,385,389; July 26; v. 288; p. 646.
Novak, Frank, *et al.* (See Stoetzel, Joseph J., assignor.)
Nowack, Charles H., Chicago, Ill., assignor to American Can Company, New York, N. Y. Hinge-cover box. No. 1,385,575; July 26; v. 288; p. 685.
Nu-Way Milker Company. (See Oden, Henry C., assignor.)
Nugent, William W., Chicago, Ill. Combined filter and water separator. No. 1,383,479; July 5; v. 288; p. 46.
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Nungester, James L., Pocatello, Idaho, assignor to Nungester Hot Water Electric Incubator Company. Hot-water electric incubator. No. 1,385,886. July 26; v. 288; p. 748.
Nystrom, A. J., and Company. (See Swanson, Frank H., assignor.)
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Oakes, Archie, assignor to Square D Company, Detroit, Mich. Outside lock-off and center stop for electrical switches. No. 1,383,558; July 5; v. 288; p. 62.
Oberreich, Louie H., Indianapolis, Ind. Shock-absorber. No. 1,385,705; July 26; v. 288; p. 712.
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O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Hand-brake for railway-cars. No. 1,383,333; July 5; v. 288; p. 15.
Odell, George W., Montreal, Quebec, Canada. Time and value card. No. 1,385,570; July 26; v. 288; p. 685.
Oden, Henry C., Columbus, Ohio, assignor to Nu-Way Milker Company, Inc., Syracuse, N. Y. Claw structure for milking-machines. No. 1,385,577; July 26; v. 288; p. 686.
Odquist, Victor, Yonkers, assignor to American Can Company, New York, N. Y. Safety-shield for can-caps. No. 1,385,578; July 26; v. 288; p. 686.
Oehm, William N., Michigan City, Ind. Carline. No. 1,383,841; July 5; v. 288; p. 121.
Ohlsson, Olof, Södertelje, Sweden. Valve of the annular type. No. 1,383,842; July 5; v. 288; p. 121.
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Okadee Company, The. (See Rickerton, William E., assignor.) (Reissue.)
O'Keefe, Daniel P., Los Angeles, Calif. Luggage-carrier. No. 1,385,640; July 26; v. 288; p. 699.
Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift system. No. 1,385,706; July 26; v. 288; p. 712.
Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift system. No. 1,385,707; July 26; v. 288; p. 712.
Oliphant, John, Chicago, Ill., assignor to Sullivan Machinery Company. Air-lift booster. No. 1,385,708; July 26; v. 288; p. 713.
Oliver, Albert, New York, N. Y. Plaster-ground. No. 1,385,466; July 26; v. 288; p. 663.
Oliver, Stacy, Hartford, Conn. Automatic rifle. No. 1,383,658; July 5; v. 288; p. 83.
Olivier, Charles F., Sherbrooke, Quebec, Canada. Scrubbing-brush. No. 1,385,264; July 19; v. 288; p. 545.
Olivier, Nicolas, Lyon, France. Parallel vise. No. 1,383,906; July 5; v. 288; p. 146.
Olmstead, Walter R., Cimarron, N. Mex. Stirrup. No. 1,384,627; July 12; v. 288; p. 334.
Olsen, Alfred N., assignor of one-half to S. D. Riniker, Rock Rapids, Iowa. Boat-propelling pole. No. 1,383,559; July 5; v. 288; p. 62.
Olsen, Ernest R., Detroit, assignor to G. W. Olsen, Muskegon, Mich. Internal combustion engine. (Reissue.) No. 15,160; July 19; v. 288; p. 564.
Olsen, George J., Colton, and F. Waterfield, Los Angeles, Calif., assignor to California Portland Cement Company. Pipe-making machine. No. 1,384,021; July 5; v. 288; p. 158.
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Olson, Arthur, Oslo, Minn. Incubator-alarm. No. 1,384,628; July 12; v. 288; p. 334.
Olson, Carl, Foster City, Mich. Cooking utensil. No. 1,385,265; July 19; v. 288; p. 546.
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Hob for cutting involute gears. No. 1,383,844; July 5; v. 288; p. 122.
Olson, Carl G., and F. W. England, assignors to Illinois Tool Works, Chicago, Ill. Hob-grinding machine. No. 1,383,843; July 5; v. 288; p. 122.
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Olson, Ernest N., and S. Swanson, Muskegon, Mich. Molding-machine. No. 1,383,748; July 5; v. 288; p. 102.
Olson, Philip W., assignor to W. A. Sheaffer Pen Company, Fort Madison, Iowa. Pencil. No. 1,385,187; July 19; v. 288; p. 530.
Olson, Robert C., Worcester, Mass. Crank-handle. No. 1,383,994; July 5; v. 288; p. 153.
O'Neill, George S., Paterson, N. J. Automatic closure-controlling apparatus. No. 1,385,093; July 19; v. 288; p. 511.
O'Reilly, William E., London, England. Razor-blade. No. 1,385,579; July 26; v. 288; p. 686.
Orr, Robert P., Albany, N. Y. Cover and support for carriers. No. 1,385,224; July 19; v. 288; p. 538.
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Orsinger, William P., Chicago, Ill. Spark-plug. No. 1,384,914; July 19; v. 288; p. 473.
Osborn, Warren M., assignor to Chicago Malleable Castings Company, Chicago, Ill. Railway tie-plate. (Reissue.) No. 15,167; July 26; v. 288; p. 767.
Osborne, Raymond G., Los Angeles, Calif. Treating concrete or the like. No. 1,383,749; July 5; v. 288; p. 102.
Osgood, Louis A., assignor, by mesne assignments, to International Scale Company, Dayton, Ohio. Scale. No. 1,385,791; July 26; v. 288; p. 729.
Osieck, Henri, Amsterdam, Netherlands. Working-time indicator. No. 1,383,560; July 5; v. 288; p. 63.
Ostenberg, Pontus, Los Gatos, Calif. Impulse-starter. No. 1,383,480; July 5; v. 288; p. 46.
O'Toole, John, Los Angeles, Calif. Spark-plug-adjusting device. No. 1,384,209; July 12; v. 288; p. 246.
O'Toole, Michael F. A., Baltimore, Md. Shipping-crate. No. 1,383,561; July 5; v. 288; p. 62.
Otsuka, Teruyoshi, Oakland, Calif. Valve-lifter. No. 1,384,969; July 19; v. 288; p. 485.
Oubridge, William A., Coventry, England. Manufacture of piston-rings. No. 1,385,345; July 19; v. 288; p. 561.
Ouderkirk, Frank P., Imperial, Nebr. Fuel-tank outlet. No. 1,385,390; July 26; v. 288; p. 647.
Ouellette, Wilfrid, St. Scholastique, Quebec, Canada. Blower for threshing-machines and the like. No. 1,383,967; July 5; v. 288; p. 147.
Overkamp, Walter, Evergreen, Colo. Well-drilling apparatus. No. 1,384,629; July 12; v. 288; p. 334.
Owen, Charles I., Yonkers, N. Y. Display device. No. 1,385,225; July 19; v. 288; p. 538.
Owen, Minnie A., Charlottetown, Prince Edward Island, Canada. Cup and spool holder for cooking utensils. No. 1,385,580; July 26; v. 288; p. 686.
Owens, John T., New York, N. Y. Stretcher. No. 1,384,630; July 12; v. 288; p. 334.
P & M Company, The. (See Blair, Rolandis A., assignor.)
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Pacific Spring Bed Co. (See Stackhouse, George, assignor.)
Packard Motor Car Company. (See Druar, Frank J., assignor.)
Packard Motor Car Company. (See Tibbetts, Milton, assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Paddleford, Oliver M., Los Angeles, Calif. Lock. No. 1,383,562; July 5; v. 288; p. 62.
Palladay, George H., Redondo Beach, Calif. Life-preserver. No. 1,385,581; July 26; v. 288; p. 686.
Palmer, Elias H., Charleston, S. C. Engine. No. 1,385,266; July 19; v. 288; p. 546.
Palmer, Harry E., assignor to Auto Specialty Co., Inc., Burlington, Vt. License-holder. No. 1,385,949; July 26; v. 288; p. 760.
Palmer, William H., Jr., Wyncote, Pa., assignor to The Electric Storage Battery Company, Philadelphia, Pa. Storage-battery connector. No. 1,383,845; July 5; v. 288; p. 122.
Paloheimo, Weli K. A., Helsingfors, Finland. Stump-pulling mechanism. No. 1,383,995; July 5; v. 288; p. 153.
Palosky, F. C. and S. Zimmermann, Pontiac, Mich. Curtain and shade fixture. No. 1,384,273; July 12; v. 288; p. 260.
Panzner, Joseph F. (See Wareham, S. L., and Panzner.)
Panzner, Martin, Schenectady, N. Y. Curtain and shade holder. No. 1,385,267; July 19; v. 288; p. 546.
Papendell, Robert, Detroit, Mich. Oil-burner. No. 1,384,085; July 12; v. 288; p. 220.
Paper Products Machine Company (See Howard, Charles H., assignor.)
Paquette, Origene J., Southbridge, Mass., assignor to The Stephen Richard Company, Inc. Gage-knife. No. 1,384,916; July 19; v. 288; p. 474.
Paramount Rubber Consolidated. (See Roberts, Fred T., assignor.)
Parker, Lucian E., assignor to E. J. Young, Wadsworth, Ohio. Wire-loop-twisting machine. No. 1,385,582; July 26; v. 288; p. 687.
Parker, Orrel A., Cleveland, Ohio. Demountable rim. No. 1,384,274; July 12; v. 288; p. 260.
Parker, Ralzemond D., and B. P. Hamilton, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Alternating-current signaling system. No. 1,383,750; July 5; v. 288; p. 102.
Parkersburg Rig & Reel Company, The. (See Bloss, R. R., and Schwemiein, assignors.)
Parkhurst, Layton M., Indianapolis, Ind., assignor, by mesne assignments, to G. B. Pitts, trustee, Cleveland, Ohio. Vending-machine. No. 1,383,996; July 5; v. 288; p. 153.
Parks Dennis, St. Louis, Mo. Building-heel-blanks. No. 1,383,846; July 5; v. 288; p. 122.

Parks, Dennis, St. Louis, Mo. Adjustable clamp for log-holders. No. 1,385,188; July 19; v. 288; p. 581.
Parks, Ostrander J., River Forest, assignor to General American Tank Car Corporation, Chicago, Ill. Receptacle. No. 1,384,915; July 19; v. 288; p. 473.
Parodi, Andres, and J. Borello, Buenos Aires, Argentina. Metallic curtain. No. 1,385,023; July 19; v. 288; p. 496.
Parschauer, Carl G., Beehive, Mont. Weeder. No. 1,384,631; July 12; v. 288; p. 335.
Parsons, Frederick W., Elmira, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Valve-seat retainer. No. 1,385,467; July 26; v. 288; p. 663.
Parsons, Harold K., Southbridge, Mass. Eye-protector. No. 1,385,583; July 26; v. 288; p. 687.
Partington, Charles H., assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Connecting-rod for switch-throws. No. 1,383,334; July 5; v. 288; p. 15.
Partridge, Hugh, assignor to Partridge Tractor Company, Inc., Jacksonville, Fla. Tractor. No. 1,383,563; July 5; v. 288; p. 63.
Partridge Tractor Company. (See Partridge, Hugh, assignor.)
Patrick, F. A., & Company. (See Witherell, Earl M., assignor.)
Patterson, Curtis J., assignor to The Campbell Baking Company, Kansas City, Mo. Bread-making. No. 1,385,842; July 26; v. 288; p. 739.
Paulson, Anton C., Fargo, N. D. Anvil-vise. No. 1,385,268; July 19; v. 288; p. 546.
Pavitt, William H., Jr., Brooklyn, N. Y. Concrete foundation and making same. No. 1,384,402; July 12; v. 288; p. 286.
Paye, Albert E. (See Dodge, Martin L., assignor.)
Payne, Lee H., Chicago, Ill. Bottom for bottle-crates. No. 1,385,709; July 26; v. 288; p. 713.
Payton, C. T. (See Guild, George R., assignor.)
Pearce, Austin, Memphis, Tenn. Sunshade for automobile-windshields. No. 1,384,275; July 12; v. 288; p. 260.
Pearce, Reginald A. (See Maule, Harvey G., assignor.)
Pearce-Towl, Alfred, Oxford, England. Gas cooking-ring with means for controlling gas-supply by a kettle, saucepan or the like. No. 1,385,763; July 26; v. 288; p. 724.
Pease, C. F., Company, The. (See Burnap, Charles E., assignor.)
Pease, Edward L., Darlington, England. Pump for delivering liquids. No. 1,383,997; July 5; v. 288; p. 153.
Pease, Emma C., Nantucket, Mass. Apron. No. 1,385,391; July 26; v. 288; p. 647.
Peck, George W., San Francisco, Calif. Narrow-doorway wall-bed. No. 1,383,420; July 5; v. 288; p. 34.
Peerless Motor Car Company, The. (See Strickland, William R., assignor.)
Peirce, William H. (See van Vleck, P., and Cooper, assignor.)
Peleskey, Andrew, Martins Ferry, Ohio. Moving sidewalk. No. 1,385,584; July 26; v. 288; p. 687.
Pelton, Chauncey R., and J. A. Hand, Detroit, Mich. Steriliser. No. 1,384,403; July 12; v. 288; p. 286.
Pelton Water Wheel Company, The. (See Doble, William A., assignor.)
Penfield, Raymond C. (See Weber, B. F., and Woodford, assignors.)
Penksa, Stanley, Long Island City, N. Y. Shipping-tag. No. 1,383,335; July 5; v. 288; p. 16.
Penn Rivet Corporation. (See Haynes, Roy W., assignor.)
Pennsylvania Chocolate Company. (See Marvin, S. S., and Munz, assignors.)
Penrod, William F., Cincinnati, Ohio, assignor to A. J. Wissel, trustee. Transmission-gear for automobiles. No. 1,384,481; July 12; v. 288; p. 302.
Penrod, William F., Cincinnati, Ohio, assignor to A. J. Wissel, trustee. Transmitting-gear system. No. 1,384,482; July 12; v. 288; p. 303.
Penrod, William F., Cincinnati, Ohio, assignor to A. H. Wissel, trustee. Driving-gear system. No. 1,384,483; July 12; v. 288; p. 303.
Penty, Willard C., Columbus, Ohio. Sprinkler-head. No. 1,385,392; July 26; v. 288; p. 647.
Penwell, Harry E., Turlock, Calif. Tire structure. No. 1,384,484; July 12; v. 288; p. 303.
Pereire, Gustave, and G. Jolivet, Paris, France. Construction of the permanent way for railway-carriages of large capacity. No. 1,385,269; July 19; v. 288; p. 546.
Perey, Alexander. (See Howell, Israel G., assignor.)
Perey Manufacturing Company. (See Trubenbach, C. D., and Sanneman, assignors.)
Perez, Ruben, Buenos Aires, Argentina. Stamp or seal. No. 1,385,490; July 26; v. 288; p. 668.
Perfect Pea Picker Company. (See Mouchet, Theodore S., assignor.)
Perfecto Gear Differential Co. (See Starr, Charles E., assignor.)
Perkins, Earl R., Syracuse, N. Y. Automobile-lock. No. 1,383,659; July 5; v. 288; p. 83.
Perkins, George B., Farmington, Mo. Vehicle attachment. No. 1,383,847; July 5; v. 288; p. 122.
Perry, Charles J., Jr., and N. Currie, San Antonio, Tex. Watch belt-buckle. No. 1,383,968; July 5; v. 288; p. 147.
Petersen, Hans, assignor to The Linograph Company, Davenport, Iowa. Typographical machine. No. 1,385,585; July 26; v. 288; p. 687.
Petersen, Holger S., Brooklyn, N. Y. Measuring device. No. 1,385,270; July 19; v. 288; p. 547.
Peterson, Charles, Leal, N. D. Trap-door guard. No. 1,385,271; July 19; v. 288; p. 547.
Peterson, Edward W., St. Paul, Minn. Fastening-clasp for jewelry. No. 1,383,848; July 5; v. 288; p. 123.
Petrow, Alex, San Francisco, Calif. Adjustable picture-frame. No. 1,385,950; July 26; v. 288; p. 760.
Petsche, Gustav B., Yonkers, N. Y. Rotary pump or compressor. No. 1,384,276; July 12; v. 288; p. 260.
Petty, Herbert H., Indianapolis, Ind. Combination fish and bait bucket. No. 1,385,792; July 26; v. 288; p. 720.
Pfaff, William A. E., Kansas City, Mo. Sanitary douche. No. 1,384,210; July 12; v. 288; p. 246.
Pfanze, Charles F., St. Louis, Mo. Means for feeding sheet material. No. 1,385,468; July 26; v. 288; p. 663.
Pfueger, Charles T., assignor to The Enterprise Manufacturing Company, Akron, Ohio. Lubricating device. No. 1,384,775; July 19; v. 288; p. 445.
Pierson, Robert M., Akron, Ohio. Vaporizing liquid fuels and means therefor. No. 1,385,793; July 26; v. 288; p. 730.
Pinkus, Flora W. (See Werner, Lester A., assignor.)
Pioneer Box Company. (See Caylor, Jefferson, assignor.)
Piotter, Otto, Harbor Beach, Mich. Bedpost-hanger. No. 1,385,794; July 26; v. 288; p. 730.
Philip and Tracey, Limited. (See Dupont, George C., assignor.)
Phillips, Delle M., Long Beach, Calif. Stainless paste. No. 1,384,917; July 19; v. 288; p. 474.
Phillips, John F. (See Durnell, Cecil M., assignor.)
Phillips, Oscar. (See Ardo, J., and Phillips.)
Phillips, Robert H., Madisonville, Ky. Churn. No. 1,383,336; July 5; v. 288; p. 16.
Phillips, Thomas H., Jr. (See Sperry, E. A., and Phillips.)
Phillipson, Emil, New York, N. Y. Heating apparatus. No. 1,383,564; July 5; v. 288; p. 63.
Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Key-lock for calculating-machines. No. 1,384,632; July 12; v. 288; p. 335.
Phinney, Edgar E., West Orange, assignor to Monroe Calculating Machine Company, Orange, N. J. Reverse-operation check for registers. No. 1,384,633; July 12; v. 288; p. 335.
Phinney, Edgar E., West Orange, assignor to Monroe Calculating machine Company, Orange, N. J. Carriage-lock for calculating-machines. No. 1,384,634; July 12; v. 288; p. 335.
Photographic Appliances Corporation. (See Dye, Glen M., assignor.)
Pierce, Howard W., Butte, Mont. Piston. No. 1,383,849; July 5; v. 288; p. 123.
Pierce, J. Audley, *et al.* (See Biette, Henry C., assignor.)
Pierson, Julius A., Winlock, Wash. Logging-carriage. No. 1,384,848; July 19; v. 288; p. 460.
Pigeon, Albert M., Norristown, Pa. Yarn-tension device. No. 1,385,189; July 19; v. 288; p. 531.
Pilkington Brothers Limited. (See Slocombe Frank E., assignor.)
Pillars, Edward R., and H. C. Leeseberg, Fostoria, Ohio. Self-locking base-fuse. No. 1,383,751; July 5; v. 288; p. 103.
Pilling, Henry, Chorlton-cum-Hardy, England. Piston of uniflow steam-engines. No. 1,385,226; July 19; v. 288, p. 538.
Pilliod, Charles J., assignor to D. Searles, trustee, Toledo, Ohio. Throttle-valve. No. 1,384,567; July 12; v. 288; p. 321.
Pindstorfte, Anders A., Copenhagen, Denmark. Pressure-regulator. No. 1,383,481; July 5; v. 288; p. 46.
Pine Tree Milking Machine Company. (See Babson, Henry B., assignor.)
Piron, Emile, New York, N. Y. Oven-heating system. No. 1,384,149; July 12; v. 288; p. 234.
Piskuran, William, Elyria, Ohio. Shoemaker's jack. No. 1,383,421; July 5; v. 288; p. 34.
Pitts, Claude, Painted Post, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Belt-drive. No. 1,383,850; July 5; v. 288; p. 123.
Pitts, George B., trustee. (See Parkhurst, Layton M., assignor.)
Pitoni, Guido, Rochester, N. Y. Sounding-toy wheel. No. 1,384,334; July 12; v. 288; p. 272.
Pledger Appliance Co. (See Pledger, Dennis J., assignor.)
Pledger, Dennis J., assignor to Pledger Appliance Co., Inc., New Orleans, La. Auxiliary-air valve and heater. No. 1,384,211; July 12; v. 288; p. 246.
Ploch, Alex, assignor of seven-eighths to T. Ploch, Carpenter, Tex. Boll-weevil catcher. No. 1,383,422; July 5; v. 288; p. 34.
Ploch, T. (See Ploch, Alex, assignor.)
Pneumatic Scale Corporation. (See Robinson, George A., assignor.)
Pohl, Wilhelm, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Worm-gear. No. 1,385,641; July 26; v. 288; p. 699.
Pollatsek, Adolf, Brooklyn, N. Y. Labeling-machine. No. 1,384,711; July 12; v. 288; p. 352.
Pollock, Robert T., Cambridge, Mass. Milling-cutter. No. 1,385,750; July 26; v. 288; p. 721.
Pombo, Jesús M., New York, N. Y. Door-operating mechanism. No. 1,383,851; July 5; v. 288; p. 123.
Ponits, Charles C., *et al.* (See Bridge, John A., assignor.)
Poole Bros. (See McGurn, Matthew S., assignor.)

Poole, Ephraim L., Cordova, Ala. Evaporating-pan and skimmer. No. 1,385,393; July 26; v. 288; p. 647.
Popp, Harry E., East Cleveland, Ohio. Valve. No. 1,383,482; July 5; v. 288; p. 47.
Poppenhusen, Herman A., Hammond, Ind., and A. P. Strong, Chicago, Ill., assignors to Green Engineering Company, East Chicago, Ind. Nozzle and nozzle-fitting. No. 1,384,086; July 12; v. 288; p. 220.
Porter-Cable Machine Company, The. (See Porter, George G., assignor.)
Porter, George G., assignor to The Porter-Cable Machine Company, Syracuse, N. Y. Back-facing attachment for lathes. No. 1,385,491; July 26; v. 288; p. 668.
Porter, George H., San Francisco, Calif. Table structure. No. 1,385,004; July 19; v. 288; p. 511.
Porter, J. E., Company. (See Jordan, Burton S., assignor.)
Porter, Robert S., San Diego, Calif., assignor of one-half to E. G. Siggers, Washington, D. C. Stopper for vacuum-bottles. No. 1,385,394; July 26; v. 288; p. 648.
Post, Alfred P., Philadelphia, Pa. Floor-furance. No. 1,383,852; July 5; v. 288; p. 123.
Post, Robert M., Chetek, Wis. Caster. No. 1,383,337; July 5; v. 288; p. 16.
Post, William, Brooklyn, N. Y. Banjo-bridge. No. 1,383,752; July 5; v. 288; p. 103.
Posternock, Joseph, Walpole, Mass. Clamp-buckle. No. 1,384,774; July 19; v. 288; p. 445.
Powdered Coal Engineering and Equipment Company. (See Williams, T. F., Coy, and Pruden, assignors.)
Powell, A. L., Power Co., The. (See Powell, Alvah L., assignor.)
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,335; July 12; v. 288; p. 272.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,336; July 12; v. 288; p. 272.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,337; July 12; v. 288; p. 273.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,338; July 12; v. 288; p. 273.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,339; July 12; v. 288; p. 273.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,340; July 12; v. 288; p. 273.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,341; July 12; v. 288; p. 274.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,342; July 12; v. 288; p. 274.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,343; July 12; v. 288; p. 274.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,344; July 12; v. 288; p. 274.
Powell, Alvah L., assignor to The A. L. Powell Power Co., Miles City, Mont. Transmission for engines. No. 1,384,345; July 12; v. 288; p. 275.
Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Lamp-house for moving-picture machines. No. 1,383,753; July 5; v. 288; p. 103.
Power, Nicholas, Brooklyn, assignor to Nicholas Power Company, New York, N. Y. Lamp-house for moving-picture apparatus. No. 1,383,754; July 5; v. 288; p. 103.
Power, William T., New York, N. Y. Sterilizing outfit. No. 1,384,840; July 19; v. 288; p. 460.
Pradeau, Charles W., London, England. Valve-mechanism for internal-combustion engines. No. 1,383,998; July 5; v. 288; p. 153.
Pratt, Charles F., Plymouth, Wis. Weed-cutting attachment. No. 1,383,483; July 5; v. 288; p. 47.
Pratt & Whitney Company. (See Müller, Friederich, assignor.) (Reissue.)
Pratt Read Player Action Company, The. (See Fisher, Stanley L., assignor.)
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-machine. No. 1,384,404; July 12; v. 288; p. 287.
Precision Metal Workers. (See Grunwald, Albert C., assignor.)
Precision Truing Machine & Tool Company. (See Conners, Edward R., assignor.)
Prellwitz, William, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Plate-valve. No. 1,385,147; July 19; v. 288; p. 523.
Preston, Guy H., Douglas, Ariz. Mess kit. No. 1,383,853; July 5; v. 288; p. 124.
Price, Eri M., assignor of one-half to M. B. Holsclaw, Percival, Iowa. Tail-end-gate for wagons. No. 1,384,212; July 12; v. 288; p. 246.
Price & Teeple Piano Company. (See Freborg, Charles, assignor.)
Price, William F., Broad Mountain, Pa. Steel tie and rail-fastener therefor. No. 1,383,423; July 5; v. 288; p. 35.
Prichard, Robert H., Los Angeles, Calif. Machine for enameling plates and the like. No. 1,385,492; July 26; v. 288; p. 668.
Pringle, Alexander, and T. S. Kirk, Belfast, Ireland. Artificial limb. No. 1,384,850; July 19; v. 288; p. 461.
Pritchard, Carl G., Warren, assignor to The Harris Automatic Press Company, Cleveland, Ohio. Automatic scraper control for rotogravure printing-presses. No. 1,383,338; July 5; v. 286; p. 17.
Pritchard, Percy, Birmingham, England. Foundry moulding-machine. No. 1,384,777; July 19; v. 288; p. 445.
Proctor, Barton A., New York, N. Y. Ground-speed device for aeroplanes. No. 1,383,660; July 5; v. 288; p. 83.
Progressive Commodity Company. (See Beckner, Noah J., assignor.)
Protected Seat Valve Company. (See Dempler, George P., assignor.)
Pruden, Harry B. (See Williams, T. F., Coy, and Pruden.)
Pruszynski, Adolph J., Chicago, and A. O. H. Ebert, assignors to Woodstock Typewriter Company, Woodstock, Ill. Key-lever spring-lock. No. 1,384,088; July 12; v. 288; p. 221.
Pugatsky, Max, *et al.* (See Goldstein, Barnett H., assignor.)
Punnett, Milton R., and R. A. Whitaker, assignors to Eastman Kodak Company, Rochester, N. Y. Producing decolorizing carbon. No. 1,383,755; July 5; v. 288; p. 103.
Purdy, Andrew J., San Francisco, Calif. Motor-vehicle. No. 1,384,087; July 12; v. 288; p. 221.
Purdy, Simeon D., assignor of one-half to T. S. Simms & Company, Limited, Fairville, New Brunswick, Canada. Brush. No. 1,385,272; July 19; v. 288; p. 547.
Pushee, Jeremiah B., *et al.* (See Faust, Casper, assignor.)
Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Securing device for demountable wheels. No. 1,384,150; July 12; v. 288; p. 234.
Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Demountable disk wheel. No. 1,384,405; July 12; v. 288; p. 287.
Putnam, Alden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Forming axle-housings. No. 1,384,485; July 12; v. 288; p. 303.
Putnam, Waldo D., Winnetka, Ill. Liquid door-closer. No. 1,383,339; July 5; v. 288; p. 17.
Putney, Lester J., Los Angeles, Calif. Envelop. No. 1,385,493; July 26; v. 288; p. 668.
Putt, James K., Hershey, Pa. Stall. No. 1,385,273; July 19; v. 288; p. 547.
Pye, David W. (See McNally, Leo F., assignor.)
Pyke, Robert A., Colac, Victoria, Australia. Locking device for the steering-wheels of motor-vehicles. No. 1,385,469; July 26; v. 288; p. 663.
Pyrene Manufacturing Company. (See Eckelmann, L. E., and Ferguson, assignors.)
Pyrene Manufacturing Company. (See Ferguson, George E., assignor.
Pyron, Frank, New York, N. Y. Bit and drill guide. No. 1,385,227; July 19; v. 288; p. 538.
Quality Hardware & Machine Company. (See Heckenbach, Joseph, assignor.)
Quarmby, Jonathan I., and E. J. and S. R. Ewing, Lansing, Mich. Hot-air furnace. No. 1,384,635; July 12; v. 288; p. 335.
Quinker, Edward E., Valdosta, Ga. Protector for the heating-pipes of retorts. No. 1,383,424; July 5; v. 288; p. 35.
Quinker, Edwin E., Valdosta, Ga. Retort. No. 1,385,470; July 26; v. 288; p. 664.
Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,385,148; July 19; v. 288; p. 523.
Racaza, Vincente A., Cebu, Philippine Islands. Electric retoucher. No. 1,385,887; July 26; v. 288; p. 748.
Radio Corporation of America. (See Farrand, Clair L., assignor.)
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Radley, Bernice, Peoria, Ill. Convertible hat. No. 1,385,494; July 26; v. 288; p. 669.
Rahm, Edwin M. (See Nachand, C. V., and Rahm.)
Ralston, Oliver C., Niagara Falls, assignor to Hooker Electrochemical Company, New York, N. Y. Making anhydrous antimony trichlorid. No. 1,384,918; July 19; v. 288; p. 474.
Ramspring Bumper Company. (See Baumgartl, Leroy, assignor.)
Randall, Chester J., Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company. Solidifying carbon and similar materials. No. 1,384,089; July 12; v. 288; p. 221.
Range, Arthur H., Portland, Oreg. Crab-meat-extracting apparatus. No. 1,385,951; July 26; v. 288; p. 760.
Rare Metals Reduction Company, The. (See Grenagle, James B., assignor.)
Rasmussen, John P., assignor of one-half to G. A. Curry, Ironwood, Mich. Device for holding carpets. No. 1,383,565; July 5; v. 288; p. 63.

Raspotnik, Franc, Westmoreland City, Pa. Vehicle propulsion mechanism. No. 1,383,661; July 5; v. 288; p. 83.

Rassmann, Hugo C., Beaver Dam, Wis. Watering device for cattle. No. 1,384,340; July 12; v. 288; p. 275.

Rathbun, Walter E., Milan, Ill. Drive for cream-separators. No. 1,383,854; July 5; v. 288; p. 124.

Rawson, Homer E., Chicago, Ill. Steel fishing-rod. No. 1,385,140; July 19; v. 288; p. 523.

Ray, Albert D., Cleveland, Ohio. Tractor. No. 1,383,425; July 5; v. 288; p. 35.

Rayburn, Everett E., Greenview, Ill. Pulley. No. 1,385,306; July 26; v. 288; p. 648.

Reach, Howard E., assignor to T. R. Barrabee, Los Angeles, Calif. Talking-machine. No. 1,384,347; July 12; v. 288; p. 275.

Read, John S., Eltham, Taranaki, New Zealand. Milking-machine installation. No. 1,385,751; July 26; v. 288; p. 721.

Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Shade-support for incandescent-electric-lamp sockets. No. 1,383,662; July 5; v. 288; p. 84.

Recker, Adolph C., Oakville, assignor to The Chase Companies Inc., Waterbury, Conn. Combined incandescent-lamp-socket-interior cover and shade-holder. No. 1,383,663; July 5; v. 288; p. 84.

Redington, F. B., Company. (See Milmoe, Michael J., assignor.)

Reece, Wade W. (See Brindle, Richard G., assignor.)

Reed, Earl W., Sunnyside, Wash. Motor-driven buck-rake. No. 1,384,919; July 19; v. 288; p. 474.

Reed, Edwin, Andover, Mass. Roll. No. 1,384,806; July 19; v. 288; p. 452.

Reed Roller Bit Company. (See Duda, Oswald, assignor.)

Rees, George G. (See Johnston, C. F., and Rees.)

Reese, Richard E., assignor of one-half to W. McKinley, Omaha, Nebr. Roller-bracket for window-shades. No. 1,385,397; July 26; v. 288; p. 648.

Reeves, Donald H., Dayton, Ohio. Pneumatic pump. No. 1,385,752; July 26; v. 288; p. 721.

Reeves, John F., Oxnard, Calif. Nozzle. No. 1,384,540; July 12; v. 288; p. 315.

Regout, Jules, Jr., Maastricht, Netherlands. Machine for raising nap on fabrics. No. 1,384,920; July 19; v. 288; p. 474.

Reid, James J., San Francisco, Calif. Baker's oven. No. 1,384,406; July 12; v. 288; p. 287.

Reilly, Edward J., Baltimore, Md. Envelop. No. 1,385,441; July 26; v. 288; p. 664.

Reineque, Henri H., Los Angeles, Calif. Shirt. No. 1,383,855; July 5; v. 288; p. 124.

Reiner, Robert, Weehawken, N. J. Shuttle. No. 1,383,484; July 5; v. 288; p. 47.

Remar, Albert, Maynard, Ohio. Tire armor and antiskid device. No. 1,385,753; July 26; v. 288; p. 722.

Rembe, John W., Jersey City, N. J. Soap-powder dispenser. No. 1,383,664; July 5; v. 288; p. 84.

Remington Typewriter Company. (See Diss, Louis P., assignor.)

Renault, Louis. (See Leisse, Pierre L., assignor.)

Renn, George B., Los Angeles, Calif. Sprinkling-hose holder. No. 1,385,472; July 26; v. 288; p. 664.

Renz, Otto P., Chicago, Ill. Advertising device. No. 1,384,568; July 12; v. 288; p. 321.

Reppenhagen, Frederick J., *et al.* (See Trova, Oswald, assignor.)

Replogle, Mark A., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire-finishing mechanism. No. 1,385,975; July 26; v. 288; p. 765.

Reppller, James M., *et al.*, trustees. (See Milliken, Foster, assignor.)

Restein, Louise K., Philadelphia, Pa. Game or toy. No. 1,385,642; July 26; v. 288; p. 699.

Rew, William O., Eureka, Calif. Machine for forming and wrapping small packages of butter. No. 1,384,921; July 19; v. 288; p. 474.

Rey, Henri D., Avarua, Island of Rarotonga, New Zealand. Vehicle-wheel. No. 1,385,710; July 26; v. 288; p. 713.

Reynolds, Howard. (See Wood, W. M., and Reynolds.)

Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Automatic switching apparatus for telephone-exchange systems. No. 1,383,756; July 5; v. 288; p. 104.

Reynolds, Reginald, Barnes, London, England. Typewriter and the like. No. 1,383,757; July 5; v. 288; p. 104.

Reynolds, Richard, and H. Gibbs, Birkenhead, England. Heavy-traction attachment suitable for motor road-vehicles. No. 1,383,566; July 5; v. 288; p. 63.

Reynolds, Roger N., Atlanta, Ga., and B. D. Ballew, Greenville, S. C.; said Ballew assignor of one-half of his right to Sidney Baxter, Atlanta, Ga. Picker-staff check for looms. No. 1,385,924; July 26; v. 288; p. 755.

Reynolds, Roy P., Harrisonville, Mo. Adjustable tappet-wrench. No. 1,385,228; July 19; v. 288; p. 538.

Rheinberg, Julius, London, England. Production of reflecting-surfaces on glass by means of metals in the platinum group. No. 1,385,229; July 19; v. 288; p. 539.

Rhoades, Alonzo E., assignor to Draper Corporation, Hopedale, Mass. Warp stop-motion for looms. No. 1,385,711; July 26; v. 288; p. 713.

Rhoads, Edgar G. (See Halvorsen, O. G., Hudson, and Rhoads.)

Rhode, Erwin F. (See Grimm, R., and Rhode.)

Rhodes, Elijah, Huntington, W. Va. Drenching-bottle. No. 1,383,426; July 5; v. 288; p. 35.

Rhodes, Joseph M., Halls, Tenn. Ice-box. No. 1,385,274; July 19; v. 288; p. 547.

Ricard, Riot, Melle, France. Manufacture of acetone. No. 1,385,888; July 26; v. 288; p. 749.

Rice, George H., assignor to Arlington Refrigerator Company, Inc., Arlington, Vt. Refrigerator-door. No. 1,384,852; July 19; v. 288; p. 461.

Rice, George L., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tension device for winding and reeling machines. No. 1,385,925; July 26; v. 288; p. 755.

Rice, Martin H., Moline, Ill. Turntable. No. 1,384,569; July 12; v. 288; p. 321.

Rice, Oliver M., Birmingham, Ala. Automobile demountable-rim tool. No. 1,383,856; July 5; v. 288; p. 124.

Rich, Frank E., assignor to Miehle Printing Press and Mfg. Co., Chicago, Ill. Gripper mechanism. No. 1,384,778; July 19; v. 288; p. 446.

Rich, Malcolm N. (See Bezzenberger, F. K., and Rich.)

Richards, Harry D., San Francisco, Calif. Bogie or trolley. No. 1,385,754; July 26; v. 288; p. 722.

Richards, Laura W., Pawtucket, R. I. Doll. No. 1,384,731; July 12; v. 288; p. 355.

Richards, Marion, Sydney, New South Wales, Australia. Dress-pattern-drafting templet. No. 1,385,586; July 26; v. 288; p. 687.

Richards, Thomas J., Youngstown, Ohio. Automatic electrical heat-treating device. No. 1,385,473; July 26; v. 288; p. 664.

Richardson, George J., Ceres, Calif. Cover for cooking utensils. No. 1,384,851; July 19; v. 288; p. 461.

Richardson, Jas. S., administratrix. (See Neely, William A.)

Richardson, John M., Milwaukee, Wis. Davenport. No. 1,383,485; July 5; v. 288; p. 47.

Richardson, Maurice F. (See Kauffmann, George J., assignor.)

Richey, James D., Corpus Christi, Tex. Safety oil-can. No. 1,385,712; July 26; v. 288; p. 714.

Ricketson, William E., New York, N. Y., assignor to The Okadee Company, Chicago, Ill. Hinge for boiler-fronts. (Reissue.) No. 15,142; July 5; v. 288; p. 161.

Riddell, George H., assignor to Domestic Sewing Machine Co., Inc., Buffalo, N. Y. Combination sewing-machine and table. No. 1,385,051; July 19; v. 288; p. 502.

Ridcout Arthur E., Chicago, Ill., assignor to National Binding Machine Company, New York, N. Y. Strip-serving device. No. 1,384,000; July 12; v. 288; p. 221.

Ridout, Harry C., Bournemouth, England. Mold for making heels, lifts, soles, or other articles from rubber or other material. No. 1,383,857; July 5; v. 288; p. 125.

Riedy, Walter L., Houghton, Mich. Safety device for hydraulic presses. No. 1,384,348; July 12; v. 288; p. 275.

Ries, Elias E., New York, N. Y. Method of and apparatus for detecting and locating sounds, &c. No. 1,385,795; July 26; v. 288; p. 730.

Riesberg, Van V., Philadelphia, Pa. Valve for heating-radiators. No. 1,384,486; July 12; v. 288; p. 304.

Rigal, Waldo A., Chicago, Ill. Auto-tire lock. No. 1,384,487; July 12; v. 288; p. 304.

Riggs, Henry H., Harpoot, Turkey. Typewriting-machine. No. 1,384,407; July 12; v. 288; p. 287.

Riley, Francis P., assignor of one-half to E. J. Zitzman, New York, N. Y. Stool. No. 1,384,675; July 12; v. 288; p. 344.

Ringo, Andrew O. (See Wilson, F. R., and Ringo.)

Riniker, Samuel D. (See Olsen, Alfred N., assignor.)

Riordan, Robert R. (See Liebert, Jerome G., assignor.)

Risser, Arthur I., assignor to U. S. Bottlers Machinery Co., Chicago, Ill. Non-foaming measuring-cup. No. 1,385,495; July 26; v. 288; p. 669.

Robbins, Edward P., and S. S. Matthes, Mansfield, Ohio. Measuring device. No. 1,383,340; July 5; v. 288; p. 17.

Robbins, William A., assignor to The American Brass Company, Waterbury, Conn. Metal-guide for rolling-mills. No. 1,385,338; July 19; v. 288; p. 539.

Roberts, Alvin L., Philadelphia, Pa. Rolled metal reinforcement for concrete poles and piles. No. 1,385,643; July 26; v. 288; p. 699.

Roberts, Alvin L., Philadelphia, Pa. Universal mill. No. 1,385,644; July 26; v. 288; p. 699.

Roberts, Ben. (See Hooker, C. J., and Roberts.)

Roberts, Charles B., Berkeley, Calif. Lock. No. 1,385,889; July 26; v. 288; p. 749.

Roberts, Eugene, Salt Lake City, Utah, assignor to The Western States Machine Company. Drive for gyratory centrifugal machines. No. 1,383,567; July 5; v. 288; p. 63.

Roberts, Eugene, Salt Lake City, Utah, assignor to The Western States Machine Company. Means for mounting and driving centrifugal machines. No. 1,383,568; July 5; v. 288; p. 64.

Roberts, Fred T., Cleveland, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Inflatable rubber article. No. 1,385,095; July 19; v. 288; p. 511.

Roberts, Henry T., New York, N. Y. Manufacturing hub structures. No. 1,383,486; July 5; v. 288; p. 47.

Roberts, James M., Andrew county, near St. Joseph, Mo. Wire stretcher and splicer combined. No. 1,384,853; July 19; v. 288; p. 461.

Roberts, Julius O., Abilene, Kans. Piston-ring tool. No. 1,384,779; July 19; v. 288; p. 446.

Roberts Numbering Machine Company. (See Kern, Maximilian H., assignor.)

Roberts, Richard H., Henderson, and P. N. Kingswell, Epsom, Auckland, New Zealand. Fastener for lids of cases. No. 1,384,151; July 12; v. 288; p. 235.

Robertson, Alexander, Granite City, assignor to American Steel Foundries, Chicago, Ill. Bumping-post. No. 1,383,858; July 5; v. 288; p. 125.

Robertson, Philip O., Allentown, Pa. Shuttle-guard. No. 1,384,807; July 19; v. 288; p. 452.

Robertson, Theo. B., Products Co. (See Feder, William, assignor.)

Robertson, William D., and S. Savage, assignors to S-R Mfg. Co., Seattle, Wash. Tape moistening and delivery apparatus. No. 1,383,909; July 5; v. 288; p. 154.

Robinson, David, Jr., Detroit, Mich. Universal joint. No. 1,385,713; July 26; v. 288; p. 714.

Robinson, George A., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Can-labeling machine. No. 1,385,714; July 26; v. 288; p. 714.

Robinson, Harry W., assignor to The Chapman Double Ball Bearing Company of Canada, Limited, Toronto, Ontario, Canada. Roller-bearing. No. 1,383,758; July 5; v. 288; p. 104.

Robinson, Robert E., *et al.* (See Brown, Leonard L., assignor.)

Roché, Jean A., Dayton, Ohio. Gun-mount for airplanes. No. 1,385,755; July 26; v. 288; p. 722.

Rockwell, W. S., Company. (See Turtle, Morton A., assignor.)

Roddy, Frances A., New York, N. Y. Educational device. No. 1,385,096; July 19; v. 288; p. 512.

Roderick Lean Manufacturing Company. (See Warne, Frederick C., assignor.)

Rodhe, Olof, Stockholm, Sweden, assignor to Svenska Aktiebolaget Mono. Gas-analysing apparatus. No. 1,385,150; July 19; v. 288; p. 523.

Roessler and Hasslacher Chemical Company, The. (See Goerner, Gustav W., assignor.)

Rogers, Arthur D., Dayton, Ohio, and R. J. Manker, Detroit, Mich. Transfer printing and issuing machine. No. 1,383,760; July 5; v. 288; p. 104.

Rogers, James E., assignor of one-half to G. E. Black, Cleveland, Ohio. Toy. No. 1,385,275; July 19; v. 288; p. 548.

Rohan, Joseph P., assignor of one-half to M. B. Cartin, Hartford, Conn. Line-connector. No. 1,383,665; July 5; v. 288; p. 85.

Rohde, John J., assignor of one-half to J. E. Lehr, Milwaukee, Wis. Parking-light. No. 1,383,569; July 5; v. 288; p. 64.

Röhm & Haas. (See Lüft, Karl, assignor.)

Rohrich, Ralph A. (See Theberath, Joseph C., assignor.)

Rolle, Karl, and J. F. Heine, Newark, N. J. Gas-heated soldering-tool. No. 1,383,859; July 5; v. 288; p. 125.

Romang, Auguste. (See Roth, A., and Romang.)

Romie, Frederick E., Oakland, Calif. Line-spacing device. No. 1,383,759; July 5; v. 288; p. 104.

Rood, William B. (See Johnson, Ernest S., assignor.) (Reissue.)

Roofing Patents Company, The. (See Lindley, L. F., and Speer, assignors.)

Rooke, George F. (See Duplessie, Joseph, assignor.)

Rooke, Thomas. (See Hatcher, E. C., and Rooke.)

Rooney, Matthew J., Bloomfield, N. J. Comb-cleaner. No. 1,384,152; July 12; v. 288; p. 235.

Ross, Delmar G., assignor, by meane assignments, to The Locomobile Company, Bridgeport, Conn. Telephone-cord-take-up device. No. 1,384,153; July 12; v. 288; p. 235.

Rope, Max, Kansas City, Mo. Detachable retainer for matches. No. 1,385,474; July 26; v. 288; p. 664.

Rose, J. Fraser, Trenton, Nova Scotia, Canada. Pulley. No. 1,385,276; July 19; v. 288; p. 548.

Rose, William D. (See White, John W., assignor.)

Roseboom, Jesse G., Cincinnati, Ohio. Direction-signal. No. 1,385,230; July 19; v. 288; p. 539.

Rosemeyer, John H., Elmira, Idaho. Stump-puller. No. 1,383,666; July 5; v. 288; p. 85.

Rosemeyer, John H., Elmira, Idaho. Cable or rope connector or anchor. No. 1,385,645; July 26; v. 288; p. 700.

Rosenberg, Heyman, New York, N. Y. Tool-handle. No. 1,384,154; July 12; v. 288; p. 235.

Rosenberg, Ralph H. (See Carter, George M., assignor.)

Rosenbrook, August C., Madison, Wis. Accelerator for automobiles. No. 1,385,496; July 26; v. 288; p. 669.

Rosenthal, Christian, Detroit, Mich. Polish for varnished surfaces. No. 1,383,427; July 5; v. 288; p. 35.

Rosenzweig, Siegfried, New York, N. Y. Valve-gear for steam engines. No. 1,384,854; July 19; v. 288; p. 461.

Rosenzweig, Siegfried, New York, N. Y. Valve-gear for steam-engines. No. 1,384,855; July 19; v. 288; p. 462.

Ross, Byers G., and O. Brindley, Pittsburgh, Pa. Attachment for moving-picture machines. No. 1,383,428; July 5; v. 288; p. 35.

Ross, Hugh, Sheboygan, Wis. Glove. No. 1,385,715; July 26; v. 288; p. 714.

Ross, Mary E., Baker, Oreg. Knitting-needle. No. 1,384,349; July 12; v. 288; p. 276.

Rossi, Joseph, Philadelphia, Pa. Sound-reproducing machine. No. 1,385,475; July 26; v. 288; p. 665.

Rossoe, Ragnar A., assignor to U. S. Products Corporation, Chicago, Ill. Fan. No. 1,384,155; July 12; v. 288; p. 235.

Rosskowski, Adolph, New York, N. Y. Compressor. No. 1,383,860; July 5; v. 288; p. 125.

Roth, Albert, Chernex-sur-Montreux, and A. Romang, Fontanivent-sur-Clarens, Switzerland. Resilient gear-wheel. No. 1,385,790; July 26; v. 288; p. 730.

Rouse, Seymour A., and H. C. Stockel, Chicago, Ill. Armor-reliner for tires. No. 1,385,890; July 26; v. 288; p. 749.

Rousso, Jacques. (See Brigham, Edwin T., assignor.) (Reissue.)

Routledge, William, London, England. Loom shuttle-bobbin. No. 1,385,952; July 26; v. 288; p. 761.

Rowlands, Percy O., Liverpool, England. Apparatus for vaporizing hydrocarbons. (Reissue.) No. 15,153; July 12; v. 288; p. 357.

Rowles, George H., Baltimore, Md. Advertising novelty. No. 1,384,408; July 12; v. 288; p. 287.

Rowley, James F., Chicago, Ill. Knee-joint mechanism for artificial limbs. No. 1,385,953; July 26; v. 288; p. 761.

Rowley, William S., West New Brighton, N. Y., assignor to H. W. Butterworth & Sons Company. Method and means for straightening weft-threads. No. 1,384,213; July 12; v. 288; p. 247.

Rowntree, Frank L., assignor to Foster, Merriam and Company, Meriden, Conn. Tubular-leg caster-retainer. No. 1,384,091; July 12; v. 288; p. 222.

Royal, William G. (See Lockwood, W. F., Scott, and Royal.)

Royal Worcester Corset Company. (See Lecoutre, Auguste J., assignor.)

Rubenstein, Nathan, New York, N. Y. Sadiron. No. 1,385,646; July 26; v. 288; p. 700.

Ruberoid Co., The. (See Abraham, Herbert, assignor.)

Rubin, Barnet, Philadelphia, Pa. Coffee-pot. No. 1,385,891; July 26; v. 288; p. 749.

Ruhsam, Charles F., Brooklyn, N. Y. Speed-controller. No. 1,383,607; July 5; v. 288; p. 85.

Ruddick, Jacob L. (See Morris, J. W., and Ruddick.)

Rudge, Alfred H., Newark, N. J. Chat-separator for concentrating-jigs. No. 1,385,277; July 19; v. 288; p. 548.

Rudolph, Emett H. (See Rutherford, T. N., and Rudolph.)

Rudy, Charles, Los Angeles, Calif. Shock-absorber. No. 1,384,970; July 19; v. 288; p. 485.

Ruff, Herbert, Philadelphia, Pa., assignor of one-half to L. G. Buckwalter, Merchantville, N. J. Plate-moving mechanism for presses, punches, and shears. No. 1,384,092; July 12; v. 288; p. 222.

Ruff, Herbert, Philadelphia, Pa., assignor of one-half to L. H. Buckwalter, Merchantville, N. J. Plate-moving mechanism for presses, punches, shears, and the like. No. 1,384,093; July 12; v. 288; p. 222.

Ruffe, Albert V., Canton, Ohio. Adjustable stand. No. 1,384,676; July 12; v. 288; p. 345.

Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Electric battery and preparing manganese material therefor. No. 1,385,151; July 19; v. 288; p. 524.

Runbäck, Karl G. M., Stockholm, Sweden. Machine for bending metal bars and the like. No. 1,385,278; July 19; v. 288; p. 548.

Rundle, William J., Meaderville, Mont. Dump-car latch. No. 1,383,861; July 5; v. 288; p. 125.

Rupracht, Edward L., West Munroe, N. Y. Collapsible crate. No. 1,384,922; July 19; v. 288; p. 475.

Rushmore, Samuel W., Plainfield, N. J. Starter for engines. No. 1,384,971; July 19; v. 288; p. 485.

Russell, Frederic W., Redditch, England. Screwdriver. No. 1,383,429; July 5; v. 288; p. 35.

Russell, Manning W., Curtis, La. Mole-trap. No. 1,385,024; July 19; v. 288; p. 497.

Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car construction. No. 1,385,398; July 26; v. 288; p. 648.

Russell, Thomas N., assignor to Chicago-Cleveland Car Roofing Company, Chicago, Ill. Car construction. No. 1,385,399; July 26; v. 288; p. 648.

Rutherford, Thomas N., and E. H. Rudolph, Olton, Okla. Device for loading gasolene in tank-cars. No. 1,385,843; July 26; v. 288; p. 739.

Rutishauser, Arnold, assignor to Firm of Motorwagenfabrik Berna A-G., Olten, Switzerland. Rotary digging-machine. No. 1,383,761; July 5; v. 288; p. 105.

Rutledge, Guy W., Huron, S. D. Journal-box jack. No. 1,385,892; July 26; v. 288; p. 749.

Rutledge, James J., Pittsburgh, Pa. Outlet-box. No. 1,383,487; July 5; v. 288; p. 47.

Ryan, John H., Kalamazoo, Mich., assignor to D. R. Senman, Chicago, Ill. Process for treating clay. No. 1,385,716; July 26; v. 288; p. 714.

S K P Ball Bearing Company. (See Wikander, O. K., assignor.)

S-R Mfg. Co. (See Robertson, W. D., and Savage, assignors.)

Sabo, Robert M. (See Domhoff, J. F., and Sabo.)

Sachse, Arthur C., Detroit, Mich. Flashlight. No. 1,384,636. July 12; v. 288; p. 336.

Safety Block Signal Company, The. (See Williams, Frank C., assignor.)

Safety Car Heating & Lighting Company. (See Thomson, William I., assignor.)

Safety Release Clevis Company. (See Hulsebois, A. B., and Den Besten, assignors.)
Sager, Sidmoor S., Buffalo, N. Y. Pump for fruit-jars and the like. No. 1,384,780; July 19; v. 288; p. 446.
Salem Manufacturing Company. (See Harris, William K., assignor.)
Salgee, Charles P., Philadelphia, Pa. Antiskid-tire. No. 1,385,926; July 26; v. 288; p. 756.
Saliger, Alois B., assignor to Saliger Ship Salvage Corporation, New York, N. Y. Resilient pontoon. No. 1,384,094; July 12; v. 288; p. 222.
Saliger Ship Salvage Corporation. (See Saliger, Alois B., assignor.)
Salmonsen, Neil, assignor to Berger Brothers Company, Philadelphia, Pa. Gutter or eaves-trough hanger or support. No. 1,384,856; July 19; v. 288; p. 462.
Salsich, Neil E., Bethlehem, Pa. Switch-stand. No. 1,384,488; July 12; v. 288; p. 304.
Salviolo, Carmine J., deceased, by M. J. Salviolo, executor, Brooklyn, N. Y. Cutting and punching machine. No. 1,383,762; July 5; v. 288; p. 105.
Salviolo, Michael J., executor. (See Salviolo, Carmine J.)
Sams, Fred V., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Flow-indicator. No. 1,385,717; July 26; v. 288; p. 714.
Sanders, Walter E., assignor to Essex Rubber Company, Inc., Trenton, N. J. Resilient heel. No. 1,383,763; July 5; v. 288; p. 105.
Sanders, William N. (See Dixon, Allen, assignor.)
Sando, Briant, assignor to Briant Specialty Company, Indianapolis, Ind. Game apparatus. No. 1,384,857; July 19; v. 288; p. 462.
Sands, Richard, Osawatomie, Kans. Insulator. No. 1,384,214; July 12; v. 288; p. 247.
Sandstrom, August E., New York, N. Y. Device for spinning tops, &c. No. 1,384,972; July 19; v. 288; p. 485.
Sandusky, Joseph. (See Sandusky, Morris M. and J.)
Sandusky, Morris M. and J., New York, N. Y. Shoe-shank. No. 1,384,858; July 19; v. 288; p. 462.
Sanneman, Dietrich B. (See Trubenbach, C. D., and Sanneman.)
Santilli, Stefano, Canton, Ohio. Machine for making macaroni and noodles. No. 1,384,350; July 12; v. 288; p. 276.
Sargent & Company. (See Sargent, Edward R., assignor.)
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,384,156; July 12; v. 288; p. 235.
Sargent, John A., Normanby, Taranaki, New Zealand. Socket for electric-light globes. No. 1,383,764; July 5; v. 288; p. 105.
Sargeson, Harry, Beverly, Mass. Boring and milling tool. No. 1,385,052; July 19; v. 288; p. 502.
Sartain, Louis M., Pelham, Tenn. Lock-nut. No. 1,384,859; July 19; v. 288; p. 462.
Sass, Fred J., assignor to Culter & Proctor Stove Co., Peoria, Ill. Stove or range. No. 1,384,157; July 12; v. 288; p. 236.
Sather, Carl G., Sioux Falls, S. D. Display-stand. No. 1,384,351; July 12; v. 288; p. 276.
Sauter, Fritz, Basel, Switzerland. Electric winding device. No. 1,384,352; July 12; v. 288; p. 276.
Savage, Stanley. (See Robertson, W. D., and Savage.)
Scanlan, Patrick M., Brooklyn, N. Y. Air-pump. No. 1,385,497; July 26; v. 288; p. 669.
Schaeffer, Frank C. (See Tirado, Alfred T., assignor.)
Schaff, Michael, Ryegate, Mont. Cattle-guard. No. 1,384,860; July 19; v. 288; p. 463.
Schaffer, John C., Tiffin, Ohio. Packaging mechanism. No. 1,385,498; July 26; v. 288; p. 669.
Schaffer, Martin R., Reading, Pa. Crank-shaft balance. No. 1,383,488; July 5; v. 288; p. 48.
Schaller, William F., San Francisco, Calif. Fish-curing machine. No. 1,385,927; July 26; v. 288; p. 756.
Schaper, Henry C., assignor to The General Automatic Scale Company, St. Louis, Mo. Weight-indicator for scales. No. 1,385,718; July 26; v. 288; p. 715.
Schattle, Edward G., Auburn, N. Y. Cluster lamp-socket. No. 1,385,844; July 26; v. 288; p. 740.
Schaub, James A., *et al.* (See Dungan, John E., assignor.)
Schauer, Ferdinand F., Brooklyn, N. Y. Baseball game. No. 1,384,095; July 12; v. 288; p. 222.
Schawrow, Rappel, Bayonne, N. J. Liquid-fuel burner. No. 1,384,781; July 19; v. 288; p. 446.
Schechter, Bernard, assignor to American Car Company, St. Louis, Mo. Car-seat. No. 1,385,279; July 19; v. 288; p. 548.
Scheibe, Ralph R., Somerville, Mass. Step-bearing. No. 1,385,400; July 26; v. 288; p. 649.
Scheminger, John, Jr., Providence, R. I. Composite spray-plate. No. 1,383,862; July 5; v. 288; p. 125.
Schenck, Daniel W., Kansas City, Kans. Broom. No. 1,385,152; July 19; v. 288; p. 524.
Schenker, Abraham W., Brooklyn, N. Y. Cock. No. 1,384,159; July 12; v. 288; p. 236.
Schermer, Freidrich, Mainz, Germany. Machine for cutting bacon and the like into thin slices. No. 1,384,782; July 12; v. 288; p. 355.
Scheuerle, Henry A., deceased; M. E. Scheuerle, executrix, Philadelphia, Pa. Making bifocal lenses. No. 1,383,863; July 5; v. 288; p. 126.
Scheuerle, Marie E., executrix. (See Scheuerle, Henry A.)
Scheve, Frets C., Sumner, assignor of forty-five one-hundredths to C. P. Bettenga, Waterloo, and five one-hundredths to F. W. Bathke, Sumner, Iowa. Apparatus for preparing and discharging feed. No. 1,383,489; July 5; v. 288; p. 48.
Schilder, John J., San Francisco, Calif. Handle for sad-irons. No. 1,384,923; July 19; v. 288; p. 475.
Schindler, Adolph G., Stillwater, Minn. Automobile-brake attachment. No. 1,383,490; July 5; v. 288; p. 48.
Schingel, Lawrence, St. Louis, Mo. Stenographer's note-holder. No. 1,384,861; July 19; v. 288; p. 463.
Schlacks, William J., Chicago, Ill. Lubricator-pump. No. 1,384,098, July 12; v. 288; p. 223.
Schlacks, William J., assignor to McCord and Company, Chicago, Ill. Check-valve structure. No. 1,384,096; July 12; v. 288; p. 223.
Schlacks, William J., assignor to McCord & Company, Chicago, Ill. Piston-packing. No. 1,384,097; July 12; v. 288; p. 223.
Schlaupits, Oswald, assignor to The Timken Roller Bearing Company, Canton, Ohio. Quenching-machine. No. 1,385,402; July 26; v. 288; p. 649.
Schlegel, Charles P., assignor to The Schlegel Manufacturing Company, Rochester, N. Y. Aeroplane fabric. No. 1,384,099; July 12; v. 288; p. 224.
Schlegel Manufacturing Company, The. (See Schlegel, Charles P., assignor.)
Schmand, George H., Little Rock, Ark. Candy-lifter. No. 1,385,893; July 26; v. 288; p. 749.
Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Gearing. No. 1,384,541; July 12; v. 288; p. 315.
Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Art of and apparatus for forming gear-teeth and the like. No. 1,384,542; July 12; v. 288; p. 316.
Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Gearing. No. 1,384,543; July 12; v. 288; p. 316.
Schmick, Henry J., Williamsport, Pa., assignor to Schmick Screw and Gear Company, Wilmington, Del. Gear-making machine. No. 1,385,097; July 19; v. 288; p. 512.
Schmick Screw and Gear Company. (See Schmick, Henry J., assignor.)
Schmicking, Edward H. (See Stromberg, W. E., and Schmicking.)
Schmidt, Benjamin F., Exeter, Calif. Camera-shutter control. No. 1,385,476; July 26; v. 288; p. 665.
Schmidt, Christ, Everett, Wash. Watering-trough. No. 1,383,342; July 5; v. 288; p. 17.
Schmidt, Leopold. (See Schurmann, R., and Schmidt.)
Schmidt, Leopold, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gun with barrel adjustable in a lateral direction. No. 1,385,153; July 19; v. 288; p. 524.
Schmuck, Alta M., Pasadena, Calif. Carpet-rug needle. No. 1,384,973; July 19; v. 288; p. 485.
Schneider & Cie. (See Schneider, Eugène, assignor.)
Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Mountain-gun. No. 1,383,765; July 5; v. 288; p. 104.
Schnell, William F., Kalispell, Mont. Check, deposit, and remittance tray. No. 1,383,570; July 5; v. 288; p. 64.
Schnelle, Edward R., Pavo, Ga. Connecting-rod. No. 1,385,894; July 26; v. 288; p. 750.
Scholl, Mathew G. (See Cavanah, H. E., and Scholl.)
Schollhorn, William, Company, The. (See Bernard, William A., assignor.)
Schoshusen, Arthur, Pittsburg, Kans. Boot or shoe former. No. 1,385,719; July 26; v. 288; p. 715.
Schreiber, John F., Milwaukee, Wis. Timing-switch for auto lighting-circuits. No. 1,385,954; July 26; v. 288; p. 761.
Schroeder, Francis J., Detroit, Mich. Child's cart. No. 1,384,160; July 12; v. 288; p. 236.
Schruth, Albert. (See Schruth, Edward, A., and J. F.)
Schruth, Edward, A., and J. F., Pepin, Wis. Latch. No. 1,384,782; July 19; v. 288; p. 446.
Schruth, John F. (See Schruth, Edward, A., and J. F.)
Schryer, Frank H., Wauwatosa, Wis. Magneto. No. 1,385,720; July 26; v. 288; p. 715.
Schuermann, Anton C. (See Mueller, P., and Schuermann.)
Schuermann, Anton C. (See Mueller, P., Schuermann, and Mueller.)
Schuler, Josef, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Unsaturated ether of ethenylparadioxydiphenylamidin. No. 1,384,637; July 12; v. 288; p. 336.
Schultz, Emile J. A., Paris, France. Elastic rod for motors. No. 1,385,758; July 26; v. 288; p. 723.
Schultz, Mikel, Kaylor, Pa. Double-moldboard plow. No. 1,384,924; July 19; v. 288; p. 475.
Schultze, Charles, *et al.* (See Howell, Henry M., assignor.)
Schuls, Gustav O., Revere, Mass. Wall construction. No. 1,383,766; July 5; v. 288; p. 106.
Schumacher, Elmer L., Southbridge, and W. H. Boutelle, assignors to American Optical Company, Southbridge, Mass. Ophthalmic mounting. No. 1,384,862; July 19; v. 288; p. 463.

Schürmann, Richard, and L. Schmidt, Essen, assignors to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Pointing device for ordnance. No. 1,384,000; July 5; v. 288; p. 154.
Schwartz, Charles, Villeurbanne, assignor to Societe Gillet & Fils, Lyon, Rhone, France. Treatment of vegetable fibers. No. 1,384,677; July 12; v. 288; p. 345.
Schwartz, Edward, New York, N. Y., assignor to Manhattan Electrical Supply Company, Inc., Jersey City, N. J. Wire-terminal. No. 1,385,928; July 26; v. 288; p. 756.
Schwarz, Alfred, Joplin, Mo., assignor to W. Scully, trustee, Brooklyn, N. Y. System of supplying an explosive mixture to engines and turbines. No. 1,384,570; July 12; v. 288; p. 321.
Schwarz, Charles F., and C. L. Shader, Troy, N. Y. Collar-band. No. 1,383,343; July 5; v. 288; p. 17.
Schwarz, Henry G., Denver, Colo. Evaporator. No. 1,385,499; July 26; v. 288; p. 670.
Schweinert, Maximilian C., West Hoboken, N. J. Stopper for water-bottles or the like. No. 1,383,767; July 5; v. 288; p. 106.
Schwemlein, William. (See Bloss, E. B., and Schwemlein.)
Schwinzer, Babette, Harrison, N. J. Larding-needle. No. 1,384,161; July 12; v. 288; p. 236.
Scobel, Benjamin, New York, N. Y. Solidifying Chinawood oil and the product thereof. No. 1,383,864; July 5; v. 288; p. 126.
Scott, Berlie H. (See Lockwood, N. F., Scott, and Royal.)
Scott, Henry T., Wichita Falls, Tex. Pumping-jack. No. 1,384,638; July 12; v. 288; p. 336.
Scott, James H., and J. D. Whitcomb, Long Beach, Calif. Invalid-exerciser and baby-walker. No. 1,384,215; July 12; v. 288; p. 247.
Scott, Lewis L., assignor to Standard Engineering Company, St. Louis, Mo. Steam-generating system. No. 1,385,845; July 26; v. 288; p. 740.
Scott, Robert W., Babylon, N. Y. Knitting-machine needle. No. 1,385,929; July 26; v. 288; p. 756.
Scott, William, Lochee Dundee, Scotland. Sack-feeder. No. 1,385,930; July 26; v. 288; p. 756.
Scott, William M., Tredyffrin township, Chester county, Pa. Switching apparatus. No. 1,383,430; July 5; v. 288; p. 36.
Scossafava, Fred G., Gouverneur, N. Y. Pivot support and retainer for automobile-hoods. No. 1,383,768; July 5; v. 288; p. 106.
Scroggins, Allen C., Jr., *et al.* (See Dungan, John E., assignor.)
Scully, William, trustee. (See Schwarz, Alfred, assignor.)
Sealright Co. (See Janisch, Maximillian P., assignor.)
Seaman, Duncan R. (See Ryan, John H., assignor.)
Search, Charles E., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Drawbar. No. 1,385,721; July 26; v. 288; p. 715.
Searles, Daniel, trustee. (See Pillod, Charles J., assignor.)
Sears, Roebuck and Company. (See Drake, James C., assignor.)
Secrest, Arthur F., Wichita, Kans. Garment. No. 1,383,491; July 5; v. 288. p. 48.
Secretary of War of the United States of America. (See Flam, John, assignor.)
Security Auto Lock Co. (See Gray, A. J., and Hebern, assignors.)
Seeley, Arthur H., assignor to E. R. Seeley, Chicago, Ill. Moving-picture machine. No. 1,383,571; July 5; v. 288; p. 65.
Seeley, Edgar R. (See Seeley, Arthur H., assignor.)
Seely, Frank H., Oakland, Calif. Calculating device. No. 1,383,492; July 5; v. 288; p. 49.
Seiler, Josef, Liegnitz, Germany. Expansible circular table. No. 1,384,925; July 19; v. 288; p. 475.
Seiler, William. (See Hammond, Charles L., assignor.)
Sellers, George R., Palouse, Wash. Tire-chain retainer. No. 1,384,639; July 12; v. 288; p. 336.
Semet-Solvay Company. (See Loomis, Chauncey C., assignor.)
Semones, John F., Union City, Tenn. Adjustable tool. No. 1,385,477; July 26; v. 288; p. 665.
Semonin, Paul F., Louisville, Ky. Grate-basket. No. 1,385,931; July 26; v. 288; p. 757.
Sen-Jacq Film Print Co. (See Sentou, C. A., and Jacquet, assignors.)
Sentou, Camille A., and E. Jacquet, assignors to Sen-Jacq Film Print Co., Fort Lee, N. J. Machine for treating photographic moving-picture films. No. 1,385,403; July 26; v. 288; p. 649.
Serrurier, Iwan, Altadena, Calif. Picture-projecting apparatus. No. 1,385,955; July 26; v. 288; p. 761.
Servis, Charles G., Logan, Iowa. Package-tie. No. 1,385,956; July 26; v. 288; p. 761.
Sessoms, William T., Chicago, Ill. Neck-shaving pattern or guide. No. 1,385,722; July 26; v. 288; p. 715.
Setter, Michael B., Chicago, Ill. Piston-ring. No. 1,384,158; July 12; v. 288; p. 236.
Seymour, Benjamin F., Washington, D. C. Vehicle-wheel, &c. No. 1,384,783; July 19; v. 288; p. 447.
Shader, Cornelius L. (See Schwarz, C. F., and Shader.)
Shafer, Henry, Ida, Mich. Talking-machine or the like. No. 1,384,409; July 12; v. 288; p. 288.
Shaffer, William D., Santa Paula, Calif. Rope-socket. No. 1,384,489; July 12; v. 288; p. 304.
Shaner, George B. (See Anderson, J. B., Garner, and Shaner.)
Shankland, James L., Toronto, Ontario, Canada. Airplane-body. No. 1,384,784; July 19; v. 288; p. 447.
Shanklin, Clarence E., and C. B. Burge, Boston, Mass. Towel-vending machine. No. 1,385,053; July 19; v. 288; p. 502.
Shanley, Francis, Chicago, Ill. Manhole. No. 1,384,712; July 12; v. 288; p. 352.
Shannon, John K., Marshall, Mo. Detachable truck-body for automobiles. No. 1,384,162; July 12; v. 288; p. 236.
Shaver, Archibald G., Chicago, Ill., assignor to Casale Safety Device Company, New York, N. Y. Shoe. No. 1,383,865; July 5; v. 288; p. 126.
Shavers, Henry J., Goldsboro, N. C. Lubricator. No. 1,384,353; July 12; v. 288; p. 276.
Shaw, John K., Minneapolis, assignor to B. G. Dahlberg, St. Paul, Minn. Wall or surface for deadening sound. No. 1,383,344; July 5; v. 288; p. 18.
Shaw, Joseph A., Pittsburgh, Pa. Reclaiming spent pickling solutions. No. 1,384,974; July 19; v. 288; p. 486.
Shaw, William B., New York, N. Y. Resilient tire. No. 1,384,678; July 12; v. 288; p. 345.
Shawmut Machine Works. (See Smith, Raymond D., assignor.)
Sheaffer, W. A., Pen Company. (See Olson, Philip W., assignor.)
Sheehan, Walter J., Santa Paula, Calif. Casing-spear. No. 1,383,345; July 5; v. 288; p. 18.
Sheff, William. (See Ellsberg, B., and Sheff.)
Sheldon, Albert N., Ventura, Calif. Apparatus for walking on the water. No. 1,384,354; July 12; v. 288; p. 277.
Shelton, William G., New York, N. Y. Dental-engine hand-tool. No. 1,384,975; July 19; v. 288; p. 486.
Shemilt, John, Rockford, Ill. Counter construction. No. 1,385,478; July 26; v. 288; p. 665.
Sheney, Joseph H., Decatur, Ill. Folding screen-tent for outdoor beds. No. 1,385,589; July 26; v. 288; p. 688.
Shepard, Charles S., deceased; M. A. Shepard, executrix, Cattaraugus, N. Y. Receptacle for feeding and watering poultry. No. 1,384,785; July 19; v. 288; p. 447.
Shepard, Minerva A., executrix. (See Shepard, Charles S.)
Shephard, James, Detroit, Mich. Liquid-gage. No. 1,383,866; July 5; v. 288; p. 126.
Shepherd Chemical Company. (See Shepherd, John P., assignor.)
Shepherd, John P., Chicago, Ill., assignor, by mesne assignments, to Shepherd Chemical Company. Ointment. No. 1,383,493; July 5; v. 288; p. 49.
Shepherd, John P., Chicago, Ill., assignor, by mesne assignments, to Shepherd Chemical Company. Mercury ointment. No. 1,384,863; July 19; v. 288; p. 463.
Shepherd, Joseph, Leeds, England. Electrical generator and motor. No. 1,384,864; July 19; v. 288; p. 463.
Shepherd, Joseph, Leeds, England. Electric generator and motor. No. 1,384,865; July 19; v. 288; p. 464.
Shepler, Harry L., assignor to The Willys-Overland Company, Toledo, Ohio. Upholstery device. No. 1,383,431; July 5; v. 288; p. 36.
Sheridan, James G., Parnell, Iowa. Poultry-coop. No. 1,385,648; July 26; v. 288; p. 700.
Sherman, George M., Tahlequah, Okla. Grinding attachment for lathes. No. 1,385,649; July 26; v. 288; p. 701.
Sherman, Jacob S., assignor to Universal Lamp Co., Chicago, Ill. Acetylene-gas lamp. No. 1,385,190; July 19; v. 288; p. 531.
Sherman, John Q., Dayton, Ohio. Autographic register. No. 1,385,587; July 26; v. 288; p. 688.
Sherman, John Q., and C. R. Buschmeyer, assignors to The Standard Register Company, Dayton, Ohio. Autographic register. No. 1,385,588; July 26; v. 288; p. 688.
Sherman, Max C. (See Allen, F. B., and Sherman.)
Sherrill, Luther, Nashville, Tenn., assignor to Mergenthaler Linotype Company. Typographical machine. No. 1,383,769; July 5; v. 288; p. 106.
Shields, William S., Trenton, N. J. Toy building-block. No. 1,385,154; July 19; v. 288; p. 524.
Shields, William S., Yardley, Pa. Toy building-block. No. 1,385,155; July 19; v. 288; p. 524.
Shiner, Rose E., Franklin, Mass. Embossed fabric. No. 1,384,808; July 19; v. 288; p. 452.
Shippert, Warren A., assignor to The Burton Page Company, Chicago, Ill. Cow-milking apparatus. No. 1,385,500; July 26; v. 288; p. 670.
Shoemaker, William D., Drummond, Md. Loose-leaf file or binder. No. 1,385,590; July 26; v. 288; p. 688.
Shoup, Walter C., and W. E. Oliver, Hoboken, N. J. Manifolding device for typewriting-machines. No. 1,383,346; July 5; v. 288; p. 18.
Showalter, Charles F., Omaha, Nebr. Cultivator attachment. No. 1,385,193; July 19; v. 288; p. 532.
Showalterbaugh, Joseph, Gary, Ind. Reversible turbine-engine. No. 1,384,976; July 19; v. 288; p. 486.
Shreve, Harry B., assignor to Lovejoy Tool Works, Chicago, Ill. Drill-chuck. No. 1,385,501; July 26; v. 288; p. 670.
Shrum, Will N., assignor to F. E. Tennant, J. W. Jewell, and C. F. Merritt, Dallas, Tex. Antileak composition. No. 1,383,572; July 5; v. 288; p. 65.

Shryock, Charles F. (See Kaltreider, J. L., and Shryock.)
Shur, Edward J. (See McLean, G. W., and Shur.)
Shuster, Elmore F., New Haven, Conn. Wire straightening and cutting-off machine. No. 1,384,100; July 12; v. 288; p. 224.
Sidnell, Albert E. (See Steele, P. D., and Sidnell.)
Sieben, George S., assignor of one-half to C. A. Church, Oak Bluffs, Mass. Razor. No. 1,385,280; July 19; v. 288; p. 549.
Siegel, Henry M., Malden, Mass. Hair-waver. No. 1,387,797; July 26; v. 288; p. 730.
Siggers, Edward G. (See Porter, Robert S., assignor.)
Silvers, Samuel, Waterloo, Iowa. Disinfecting brooder. No. 1,384,866; July 19; v. 288; p. 464.
Silvia, Anthony B., Haverhill, Mass. Diaphragm-horn-operating means. No. 1,384,977; July 19; v. 288; p. 487.
Simmen, Paul J., Buffalo, N. Y. Automatic speed control for railways. No. 1,383,770; July 5; v. 288; p. 106.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,384,490; July 12; v. 288; p. 304.
Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Connector. No. 1,384,491; July 12; v. 288; p. 304.
Simms, T. S., & Company. (See Purdy, Simeon D., assignor.)
Simon, Arthur, assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Solenoid-operated valve and the like. No. 1,383,432; July 5; v. 288; p. 36.
Simonson, Walter H., Brooklyn, and O. Manitus, Englewood, N. Y. Reclaiming sludge acid in petroleum-refining. No. 1,384,978; July 19; v. 288; p. 487.
Simpson, Albert, Falun, Alberta, Canada. Paper-dispensing device. No. 1,384,640; July 12; v. 288; p. 337.
Singer Manufacturing Company, The. (See Corrall, H., and Stevens, assignors.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Singer Manufacturing Company, The. (See Hemleb, Martin, assignor.)
Singer Manufacturing Company, The. (See Herr, Park A., assignor.)
Singer Manufacturing Company, The. (See Molyneux, George E., assignor.)
Sirio, Abner, Brooklyn, N. Y. Toilet-article package. No. 1,383,867; July 5; v. 288; p. 126.
Sirot, Harry. (See Sirot, Hyman and H.)
Sirot, Hyman and H., New York, N. Y. Self-illuminator for reading and writing. No. 1,385,798; July 26; v. 288; p. 731.
Sivard, Reuben A., Oklahoma, Okla. Violin. No. 1,384,492; July 12; v. 288; p. 306.
Sizer, Albert W., Hessle, near Kingston-upon-Hull, England. Worm-screw of extrusion and like presses. No. 1,384,679; July 12; v. 288; p. 345.
Skerrington, Patrick J., New York, N. Y. Washing-machine. No. 1,385,404; July 26; v. 288; p. 649.
Skerl, Francesco, New York, N. Y., assignor to The National Cash Register Company, Dayton, Ohio. Ticket printing and issuing mechanism. No. 1,385,756; July 26; v. 288; p. 722.
Skidmore, John, Guelph, Ontario, Canada. Double combined golfer's seat with shades and utensil-hangers. No. 1,383,771; July 5; v. 288; p. 107.
Skinner Machinery Company. (See McIntyre, Allen H., assignor.)
Skolnik, Max, Minneapolis, Minn. Making hubs. No. 1,385,231; July 19; v. 288; p. 539.
Skutnik, Antoni, Dickson City, Pa. Padlock. No. 1,384,277; July 12; v. 288; p. 290.
Skuttle, John L., Mason City, Iowa. Gas-heater. No. 1,384,493; July 12; v. 288; p. 305.
Sladden, Sidney C., New York, N. Y. Service-bracket for telephone-receivers. No. 1,384,101; July 12; v. 288; p. 224.
Slag Rock Machine Company. (See Hurst, Willis T., assignor.)
Slocomb, John T., Providence, R. I. Steam cooking vessel. No. 1,384,102; July 12; v. 288; p. 224.
Slocombe, Frank E., assignor to Pilkington Brothers Limited, St. Helens, England. Apparatus for grinding and polishing plate-glass. No. 1,384,278; July 12; v. 288; p. 261.
Small, Frederick P., Ridgefield, N. J. Shipping appliance. No. 1,385,156; July 19; v. 288; p. 524.
Smiley, Wilmot C., Wampum, Pa. Conveyer. No. 1,385,281; July 19; v. 288; p. 549.
Smiley, Wilmot C., Wampum, Pa. Antiskidding device. No. 1,385,282; July 19; v. 288; p. 549.
Smith, Arthur E., Chicago, Ill. Hypodermic needle. No. 1,384,355; July 12; v. 288; p. 277.
Smith, Bernard H., Brooklyn, and J. R. Eoff, Jr., New York, N. Y., assignors to Garrett & Company, Inc. Manufacturing flavoring extracts with higher alcohols. No. 1,384,680; July 12; v. 288; p. 345.
Smith, Bernard H., Brooklyn, and J. R. Eoff, Jr., New York, N. Y., assignors to Garrett & Company, Inc. Manufacturing flavoring extracts with glycols. No. 1,384,681; July 12; v. 288; p. 345.
Smith Cannery Machines Company. (See Waugh, Edward H., assignor.)
Smith, Charles F., Watertown, assignor to Howland Bag and Paper Company, Dexter, N. Y. Cutting mechanism. No. 1,383,868; July 5; v. 288; p. 126.
Smith, Charles F., Chicago, Ill., assignor to Maxim Manufacturing Company. Disk for peeling-machines. No. 1,384,456; July 12; v. 288; p. 277.
Smith, Charles G., assignor to C. F. MacGill, Cambridge, Mass. Speedometer. No. 1,384,800; July 19; v. 288; p. 452.
Smith & Coventry Limited. (See Wright, Isaac H., assignor.)
Smith & Davis Manufacturing Co. (See Jones, Benjamin H., assignor.)
Smith, Edwin B., and A. H. Loucks, assignors to The Marion Machine Foundry and Supply Company, Marion, Ind. Lubricator. No. 1,385,283; July 19; v. 288; p. 549.
Smith, Florence E. and F. B., Detroit, Mich. Air-filter. No. 1,385,502; July 26; v. 288; p. 671.
Smith, Frank A. (See Geddard, G. N., and Smith.)
Smith, Frank L., and C. R. Hawkins, Chicago, Ill. Machine for dressing fitted bearings and the like. No. 1,384,163; July 12; v. 288; p. 237.
Smith, Frank W. (See Spencer, Jonathan R., assignor.)
Smith, Frank W., assignor of one-fourth to J. J. Glasbeen, one-fourth to R. J. Snellberger, and one-fourth to W. J. Lewis, Chicago, Ill. Smelting minerals. No. 1,385,723; July 26; v. 288; p. 716.
Smith, Fred B. (See Smith, Florence E. and F. B.)
Smith, Frederick, London, Ontario, Canada. Running-board for motor-vehicles. No. 1,385,232; July 19; v. 288; p. 539.
Smith, George K., New York, N. Y. Ship construction. No. 1,384,410; July 12; v. 288; p. 288.
Smith, George W., Garber, Okla. Sediment receiving and drawing-off device for tanks. No. 1,383,433; July 5; v. 288; p. 36.
Smith, Howard W., Ellwood City, Pa. Flattening pipe. No. 1,384,103; July 12; v. 288; p. 225.
Smith, Hubert E. (See Nelson, G. H., and Smith.)
Smith, Hubert F. (See Waterman, C. A., and Smith.)
Smith, James C., Tulsa, Okla. Coupling-nipple. No. 1,385,157; July 19; v. 288; p. 525.
Smith, John, St. Louis, Mo. Plastic composition for bricks. No. 1,385,757; July 26; v. 288; p. 723.
Smith, John B., Stamford Hill, London, England. Strainer for teapots. No. 1,384,926; July 19; v. 288; p. 475.
Smith, John G., Falls Mills, Va. Pipe-wrench. No. 1,384,104; July 12; v. 288; p. 225.
Smith, Josiah, Leeds, England. Machine for molding soap and the like substances. No. 1,384,571; July 12; v. 288; p. 321.
Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. Vacuum-pump. No. 1,384,927; July 19; v. 288; p. 476.
Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. Pump. No. 1,384,928; July 19; v. 288; p. 476.
Smith, Paul F., and J. A. Luke, Salt Lake City, Utah. Dry-cleaning system. No. 1,385,724; July 26; v. 288; p. 716.
Smith, Raphael L., St. Louis, Mo. Rivet or fastener. No. 1,385,799; July 26; v. 288; p. 731.
Smith, Raymond D., Milton, assignor to Shawmut Machine Works, Inc., Boston, Mass. Thermostatically-controlled valve. No. 1,383,573; July 5; v. 288; p. 65.
Smith, Raymond D., Milton, assignor to Shawmut Machine Works, Inc., Boston, Mass. Delayed cut-off for incandescent gas-lamps. No. 1,383,574; July 5; v. 288; p. 65.
Smith, Raymond D., Milton, assignor to Shawmut Machine Works, Inc., Boston, Mass. Delayed cut-off for inverted gas-lamps. No. 1,383,575; July 5; v. 288; p. 65.
Smith, Raymond D., Arlington, assignor to Shawmut Machine Works, Inc., Boston, Mass. Selectively-operable timing mechanism. No. 1,385,098; July 19; v. 288; p. 512.
Smith, Walter C., Watertown, N. Y. Vehicle attachment. No. 1,383,668; July 5; v. 288; p. 85.
Smith, William A., *et al.* (See Bowman, Levi M., assignor.)
Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Drill-steel retainer. No. 1,383,434; July 5; v. 288; p. 37.
Smith, William A., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock-drill. No. 1,384,216; July 12; v. 288; p. 248.
Smith, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Blowing device for percussive tools. No. 1,384,641; July 12; v. 288; p. 337.
Smith, Willam H., Portland, Oreg. Cotton-chopper. No. 1,383,772; July 5; v. 288; p. 107.
Smith, William J., Eolia, Mo. Ball-bearing rim-lug. No. 1,383,435; July 5; v. 288; p. 37.
Smith, William J., Cleveland, Ohio, assignor to The American Steel and Wire Company of New Jersey. Reel. No. 1,384,572; July 12; v. 288; p. 322.
Smith, William T., assignor to W. R. Thomas, Philadelphia, Pa. Valve and locking device therefor. No. 1,383,869; July 5; v. 288; p. 127.
Smithfield, Emil A., assignor to Faultless Caster Company, Evansville, Ind. Caster-bracket socket. No. 1,383,773; July 5; v. 288; p. 107.
Smithfield, Emil A., assignor to Faultless Caster Company, Evansville, Ind. Caster construction. No. 1,383,774; July 5; v. 288; p. 107.

Snellberger, Richard J., *et al.* (See Smith, Frank W., assignor.)
Snider, Milton A., Detroit, Mich. Iceless refrigerator. No. 1,385,158; July 19; v. 288; p. 525.
Snyder, Sherwood P., Dayton, Ohio. Food product. No. 1,385,503; July 26; v. 288; p. 671.
Societe Gillet & Fils. (See Schwartz, Charles, assignor.)
Societe Lorraine des Anciens Etablissements de Dietrich & Cie. de Luneville. (See Maire, Auguste, assignor.)
Society "Freesea Patent" Eisenschutz und Schraubenwellenbekleidung für Schiffe G. m. b. H. (See Freese, August, assignor.)
Society of Chemical Industry in Basle. (See Schuler, Josef, assignor.)
Solarz, Stanley, St. Paul, Minn. Detachable shoe-heel. No. 1,383,436; July 5; v. 288; p. 37.
Soley, Frank, assignor to Miller Lock Company, Philadelphia, Pa. Padlock. No. 1,384,682; July 12; v. 288; p. 346.
Soll, Charles J., Racine, Wis. Pane-fastener. No. 1,385,725; July 26; v. 288; p. 716.
Sommers, Floyd H., Bowling Green, Ohio. Toy machine-gun. No. 1,385,954; July 19; v. 288; p. 503.
Sonora Phonograph Corporation. (See Farb, Pincus, assignor.)
Sonora Phonograph Corporation. (See Malocsay, Frank, assignor.)
Soreng, Edgar M., assignor to Briggs & Stratton Company, Milwaukee, Wis. Regulator. No. 1,383,494; July 5; v. 288; p. 49.
Sorensen, Marius M., Vallered, near Rungsted, Denmark. Machine for straightening wire. No. 1,383,576; July 5; v. 288; p. 66.
Sorg, William A., Denver, Colo. Combustion-engine. No. 1,383,577; July 5; v. 288; p. 66.
Soss, Joseph, New York, N. Y. Hinge. No. 1,385,800; July 26; v. 288; p. 731.
Southwell, John A., Scranton, Pa. Automobile-signal. No. 1,383,870; July 5; v. 288; p. 127.
Spadone, Henry, *et al.* (See Wegner, Julius, assignor.)
Spadone, Walter W., *et al.* (See Wegner, Julius, assignor.)
Spaulding, Franklin, assignor to G. W. Christopher, Chicago, Ill. Film-reel. No. 1,385,191; July 19; v. 288; p. 542.
Specht, Adolph A., assignor to Gem City Stove Manufacturing Company, Quincy, Ill. Combined gas and coal stove. No. 1,385,726; July 26; v. 288; p. 716.
Speer, Alexander S. (See Lindley, L. F., and Speer.)
Spelling, Thomas C., New York, N. Y. Closure for bottles and other containers. No. 1,384,573; July 12; v. 288; p. 322.
Spencer, Elmer H., Nederland, assignor of one-half to A. G. Block, Port Neches, and one-fourth to Crook, Lord & Lawhon, Beaumont, Tex. Valve. No. 1,383,871; July 5; v. 288; p. 127.
Spencer, Harry W., Toronto, Ontario, Canada. Outboard motor for boats. No. 1,383,495; July 5; v. 288; p. 49.
Spencer, Jonathan R., Long Beach, assignor of one-half to F. W. Smith, Los Angeles, Calif. Can-opener. No. 1,384,642; July 12; v. 288; p. 337.
Spencer, Kelvin T., Harmondsworth, and L. G. Wills, London, England. Transmission-gear providing automatic compensation for variations in the speed and power transmitted. No. 1,384,357; July 12; v. 288; p. 277.
Sperry, Elmer A., and T. H. Phillips, Jr.; said Phillips, Jr., assignor to said Sperry, Brooklyn, N. Y. Dirigible gravity-bomb. No. 1,384,668; July 19; v. 288; p. 464.
Sperry Gyroscope Company, The. (See Sperry, Lawrence B., assignor.)
Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Air-current indicator for aeroplanes. No. 1,384,867; July 19; v. 288; p. 464.
Spinasse, Arthur E., Mount Vernon, Ohio. Bait for glass-drawing machines and in the process of drawing glass. (Reissue.) No. 15,143; July 5; v. 288; p. 102.
Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Interchangeable carriage. No. 1,383,578; July 5; v. 288; p. 66.
Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Paper-feeding mechanism. No. 1,383,775; July 5; v. 288; p. 108.
Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Ribbon-shifting mechanism. No. 1,383,776; July 5; v. 288; p. 108.
Spitzer, Walter D. (See Wippert, W. O., and Spitzer.)
Splitdorf Electrical Company. (See Borger, Henry E., assignor.)
Splitdorf Electrical Company. (See McKeown, Samuel C., assignor.)
Splittstoesser, Albert H., Kulm, N. D. Coupling and releasing device. No. 1,384,001; July 5; v. 288; p. 154.
Sponhauer, Henry C., Galion, Ohio. Burial-vault closure. No. 1,384,279; July 12; v. 288; p. 261.
Sponsel, Charles W., Wethersfield, Conn. Elevating-truck. No. 1,383,669; July 5; v. 288; p. 85.
Sprague, James A. (See Spurlock, T. M., and Sprague.)
Sprague, Leo A., Henderson, N. Y. Tractor attachment for motor-vehicles. No. 1,384,164; July 12; v. 288; p. 237.
Sprecher, Peter W., Milwaukee, Wis. Electric-lighting fixture. No. 1,385,192; July 19; v. 288; p. 532.
Springer, William N., South Bend, Ind. Cultivator mechanism. No. 1,384,411; July 12; v. 288; p. 288.
Sprinkle, Lake H., Brooklyn, N. Y. Bridge-tooth. No. 1,384,869; July 19; v. 288; p. 464.
Spurlock, Theadore M., and J. A. Sprague, Sitka, Ark. Railway-gate. No. 1,383,437; July 5; v. 288; p. 37.
Square D Company. (See Ball, Albert P., assignor.)
Square D Company. (See Oaks, Archie, assignor.)
Squier, George A., Cleveland, Ohio. Machine for truing lens-grinding disks. No. 1,384,643; July 12; v. 288; p. 337.
St. John, Miles C., assignor of one-half to J. Ericksen, Chicago, Ill. Electroplated propellor for aerial vehicles. No. 1,385,802; July 26; v. 288; p. 732.
Stackhouse, George, assignor to Pacific Spring Bed Co., Berkeley, Calif. Arm-form for furniture. No. 1,384,165; July 12; v. 288; p. 237.
Stader, John B. (See Bates, Frank C., assignor.)
Stanej, Roman, Detroit, Mich. Repairing device for bicycle-tires. No. 1,385,591; July 26; v. 288; p. 668.
Stafford, Wilfred, assignor of one-half to W. Davies, London, England. Desk, table, and like office furniture. No. 1,385,233; July 19; v. 288; p. 539.
Staggers, William F., Mannington, W. Va. Antiskid device for auto-tires. No. 1,384,358; July 12; v. 288; p. 277.
Stallman, Granville H., assignor to The Mechanical Manufacturing Company, Chicago, Ill. Hog-scraping machine. No. 1,383,347; July 5; v. 288; p. 18.
Stanbon, Charles P., Lynn, Mass. Steering-post-positioning means. No. 1,383,348; July 5; v. 288; p. 18.
Standard Engineering Company. (See Scott, Lewis L., assignor.)
Standard Ordnance Corporation. (See Bellamore, D. H., and Boak, assignors.)
Standard Paint Company, The. (See Abraham, Herbert, assignor.)
Standard Parts Company, The. (See Baker, Walter C., assignor.)
Standard Pressed Steel Company. (See Gade, Harald F., assignor.)
Standard Register Company, The. (See Sherman, J. Q., and Buschmeyer, assignors.)
Standard Steel Propeller Company. (See Dicks, Thomas A., assignor.)
Standish, John F., Winthrop, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heeling-machine. No. 1,384,870; July 19; v. 288; p. 464.
Standley, Meredith G. (See White, Ernest W., assignor.)
Stanley, Frank, Newcastle, Ind. Automobile-lock. No. 1,385,479; July 26; v. 288; p. 666.
Stanton, Edward L., H. T., and S. J., St. Louis, Mo. Rain and sun shield for automobiles. No. 1,384,574; July 12; v. 288; p. 322.
Stanton, Harry T. (See Stanton, Edward L., H. T., and S. J.)
Stanton, Stoddard J. (See Stanton, Edward L., H. T., and S. J.)
Stanzel, Carl, New York, N. Y. Saw-sharpening apparatus. No. 1,385,339; July 19; v. 288; p. 560.
Star Watch Case Co. (See Wachter, Louis E. F., assignor.)
Starkey, Alan B., Duluth, Minn. Slip-clevis. No. 1,384,217; July 12; v. 288; p. 248.
Starr, Charles E., assignor to Perfecto Gear Differential Co., Bellingham, Wash. Spring-hanger for automobiles. No. 1,383,579; July 5; v. 288; p. 66.
Starr, Morton H., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Scale. No. 1,385,592; July 26; v. 288; p. 680.
Starrett, L. S., Company, The. (See Starrett, L. S., and Adell, assignors.)
Starrett, Laroy S., and J. A. Adell, assignors to The L. S. Starrett Company, Athol, Mass. Fine-adjustment bevel-protractor and the like. No. 1,384,105; July 12; v. 288; p. 225.
Stayman, David F., Baltimore, Md., assignor to I. G. Engle, Philadelphia, Pa. Hydraulic valve. No. 1,385,932; July 26; v. 288; p. 757.
Steelman, Paul D., and A. E. Sidnell, Denver, Colo. Wash-cloth and making it. No. 1,384,871; July 19; v. 288; p. 465.
Steen, Haldan A., Christiania, Norway, assignor, by mesne assignments, to Allis-Chalmers Manufacturing Company. Magnetic controlling mechanism. No. 1,385,801; July 26; v. 288; p. 731.
Steinke, Walter H. (See Jett, George C., assignor.)
Stein, Adolph H., executor. (See Hauck, Arthur E.)
Stein, Samuel F., Williamsport, Pa. Sewing-machine. No. 1,383,438; July 5; v. 288; p. 36.
Steiner, Mary E., *et al.*, administratrices. (See Walker, Edwin.)
Steinmetz Electric Motor Car Corporation. (See Asprooth, A. H. J., and Leoni, assignors.)
Steinmetz Electric Motor Car Corporation. (See Leoni, Alfonso M., assignor.)
Stephen Richard Company, The. (See Paquette, Origene J., assignor.)
Stephens, Charles, London, England. Machine for drying leather, yarns, jute, and like materials. No. 1,384,359; July 12; v. 288; p. 277.
Stephens, James C., Bruceville, Ind. End-gate and chute. No. 1,384,715; July 12; v. 288; p. 352.
Stephens, James C., Norfolk, Va., assignor to Huff Process Company, Wilmington, Del. Heating apparatus for use in oil-wells. No. 1,373,777; July 5; v. 288; p. 108.

Stephens, James C., Norfolk, Va., assignor to Huff Process Company, Wilmington, Del. Heating apparatus for use in oil-wells. No. 1,383,670; July 5; v. 288; p. 86.
Sterling, Bernard A., Chicago, Ill. Hair-waver. No. 1,384,166; July 12; v. 288; p. 237.
Sterling, Don L., assignor to Sterling Games Company, Dallas, Tex. Game-board. No. 1,384,280; July 12; v. 288; p. 261.
Sterling Games Company. (See Sterling, Don L., assignor.)
Sternbergh, David, Reading, Pa. Advertising-sign. No. 1,383,439; July 5; v. 288; p. 38.
Sterrett, Jessie, *et al.*, administratrices. (See Walker, Edwin.)
Stettner, Joseph H., Columbus, Ohio. Domestic heater. No. 1,383,671; July 5; v. 288; p. 86.
Stevens, Bertram A. (See Cornell, H., and Stevens.)
Stevens and Company. (See Stevens, Frederick A., assignor.)
Stevens, Frederick A., assignor to Stevens and Company, Incorporated, Providence, R. I. Ophthalmic mounting. No. 1,383,872; July 5; v. 288; p. 127.
Stevens, Frederick A., Providence, R. I., assignor to Stevens and Company, Incorporated. Ophthalmic-mounting-adjusting device. No. 1,384,872; July 19; v. 288; p. 465.
Stevens, Harry P., New York, N. Y. Internal-combustion engine. No. 1,385,099; July 19; v. 288; p. 512.
Stevens, Ransom H., assignor of one-third to W. R. Crowell and one-third to L. C. Comer, Los Angeles, Calif. Amalgamating metals. No. 1,384,683; July 12; v. 288; p. 346.
Stevens, Shed P., Buffalo, Tex. Peanut-digger. No. 1,383,580; July 5; v. 288; p. 67.
Stewart, Norris D., San Antonio, Tex. Machine for translating rotary into reciprocating movements. No. 1,384,360; July 12; v. 288; p. 278.
Stickel, Frederick, Chicago, Ill. Pump. No. 1,384,218; July 12; v. 288; p. 248.
Stickney, Burnham C. (See Wernery, Lester A., assignor.)
Stine, Robert J., Eagle Grove, Iowa. Hide-cleaning tool. No. 1,383,878; July 5; v. 288; p. 127.
Stirling, Clarence C., Hartford, Conn. Electric switch. No. 1,383,849; July 5; v. 288; p. 19.
Stirling, Clarence C., assignor to The Hart & Hegeman Manufacturing Company, Hartford, Conn. Electric switch. No. 1,384,810; July 19; v. 288; p. 452.
Stockel, Hans C. (See Rouse, S. A., and Stockel.)
Stockham, William G., Piqua, Ohio. Armor for vehicle-tires. No. 1,385,159; July 19; v. 288; p. 525.
Stockholder, John H., New Orleans, La. Sleeve-valve. No. 1385,401; July 26; v. 288; p. 649.
Stoetzel, Joseph J., assignor of one-fourth to P. F. Clausen and one-fourth to F. Novak, Chicago, Ill. Regulating mechanism for pneumatic carrier systems. No. 1,385,727; July 26; v. 288; p. 717.
Stokes, Henry C., Sumter, S. C. Air-brake safety appliance. No. 1,385,160; July 19; v. 288; p. 525.
Stolakiss, Christos A., Boston, Mass. Wrench. No. 1,383,672; July 5; v. 288; p. 86.
Stoltz, John E., Charleston, Wash. Indicating and attaching device for sunken ships. No. 1,384,412; July 12; v. 288; p. 288.
Stone, Charles W., and H. M. Hobart, Schenectady, N. Y., assignors to General Electric Company. Electricity transforming and converting apparatus. No. 1,385,895; July 26; v. 288; p. 750.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Filling-catcher for looms. No. 1,383,874; July 5; v. 288; p. 128.
Stone, Warren M., Camden, N. J. Flexible drive connecting device. No. 1,385,803; July 26; v. 288; p. 732.
Stoner, William, Fresno, Calif. Raisin-cleaner. No. 1,384,494; July 12; v. 288; p. 305.
Stopper, Frank J., *et al.* (See Faust, Casper, assignor.)
Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,384,495; July 12; v. 288; p. 305.
Stout, William E., Seattle, Wash. Spring-tire. No. 1,385,804; July 26; v. 288; p. 732.
Stovall, William M., Clallam Bay, Wash. Saw-set. No. 1,384,575; July 12; v. 288; p. 322.
Stover-Lang Company. (See Lang, George H., assignor.)
Strand, Clarence, Gary, Minn. Motor-driven assembling-tool. No. 1,384,811; July 19; v. 288; p. 452.
Strane, Archibald J. (See Hill, R. L., and Strane.) (Reissue.)
Strange, James A., Ellensburg, Wash. Holder for soles. No. 1,384,979; July 19; v. 288; p. 487.
Stratomeyer, Karl. (See Kästner, A., and Stratomeyer.)
Stratton, Harry F., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Means for protecting switch-contacts under oil. No. 1,384,025; July 5; v. 288; p. 159.
Strauss, Samuel, assignor to Los Angeles Trust and Savings Bank, trustee, Los Angeles, Calif. Shoe-machine. No. 1,385,647; July 26; v. 288; p. 700.
Strehlenert, Robert W., Gottenborg, Sweden, assignor to And. H. Klaer & Co., Ltd. of Norway, Glemminge, Norway. Treating waste liquor from sulfite-cellulose factories. No. 1,384,219; July 12; v. 288; p. 248.
Strelinger, Gilbert P., New York, N. Y. Mop. No. 1,383,875; July 5; v. 288; p. 128.
Strickland, William R., assignor to The Peerless Motor Car Company, Cleveland, Ohio. Lubricating system for internal-combustion engines. No. 1,384,873; July 19; v. 288; p. 465.
Stroh, Freeman W., Barberton, Ohio. Vise. No. 1,385,504; July 26; v. 288; p. 671.
Strohbach, Henry J., New York, N. Y. Coffee-urn. No. 1,385,593; July 26; v. 288; p. 689.
Stromberg Electric Company. (See Crook, C. M., and Gammeter, assignors.)
Stromberg Motor Devices Company. (See Cole, Don, assignor.)
Stromberg, William E., and E. H. Schmicking, New York, N. Y.; said Stromberg assignor to said Schmicking. Belt-controller. No. 1,385,728; July 26; v. 288; p. 717.
Strome, Orrin R., Melfort, Saskatchewan, Canada. Rotary-brush sweeper. No. 1,383,440; July 5; v. 288; p. 38.
Strong, Arthur P. (See Poppenhusen, H. A., and Strong.)
Struensee, Otto, Philadelphia, Pa. Coating for flongs. No. 1,385,284; July 19; v. 288; p. 549.
Struve, Edward W. (See Jones, H. A., and Struve.)
Stuart, Arthur C., assignor, by mesne assignments, to J. R. Garfield, trustee, Cleveland, Ohio. Telephone-exchange system. No. 1,384,980; July 19; v. 288; p. 487.
Stubbs, Robert C., Dallas, Tex. Paving apparatus. No. 1,383,581; July 5; v. 288; p. 67.
Stubbs, Rupert I., Delta, Pa. Presser device. No. 1,383,582; July 5; v. 288; p. 67.
Stuller, Frank, Rivesville, W. Va. Sword-hilt pistol. No. 1,384,644; July 12; v. 288; p. 338.
Sturtevant Mill Company. (See Doyle, William T., assignor.)
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,383,441; July 5; v. 288; p. 38.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,384,929; July 19; v. 288; p. 476.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,025; July 19; v. 288; p. 497.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,846; July 26; v. 288; p. 740.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,847; July 26; v. 288; p. 741.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,847; July 26; v. 288; p. 741.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Air-separator. No. 1,385,848; July 26; v. 288; p. 741.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Machine for mixing materials. No. 1,385,849; July 26; v. 288; p. 741.
Submarine Signal Company. (See Fessenden, Reginald A., assignor.)
Suhr, Charles, Chicago, Ill. Vehicle attachment. No. 1,384,576; July 12; v. 288; p. 322.
Sullivan, Denis R., Longville, La. Reinforced-concrete tie. No. 1,384,496; July 12; v. 288; p. 306.
Sullivan, Joseph J. (See Hanson, Oscar W., assignor.)
Sullivan Machinery Company. (See Oliphant, John, assignor.)
Sullivan, Paul C., Fairmont, W. Va. Golf-practicing means. No. 1,383,876; July 5; v. 288; p. 128.
Sullivan, Timothy J., Warmsprings, Mont. House-service valve. No. 1,384,645; July 12; v. 288; p. 338.
Sullivan, Wellington B., Baltimore, Md. Contact-shoe. No. 1,385,100; July 19; v. 288; p. 513.
Summers, J. Mills, Pittsburgh, Pa. Railway-brake hanger. No. 1,385,850; July 26; v. 288; p. 741.
Summers, J. Mills, Pittsburgh, Pa. Railway-brake hanger. No. 1,385,851; July 26; v. 288; p. 741.
Sundhaussen, Hermann, Essen, assignor to Fried. Krupp Aktiengesellschaft. Essen-on-the-Ruhr, Germany. Ball-bearing. No. 1,384,002; July 5; v. 288; p. 154.
Sundstrom, Carl J., Mud Butte, S. D. Calf-weaner. No. 1,383,442; July 5; v. 288; p. 38.
Sunnen, Joseph, Mexico, Mo. Spring suspension for automobiles. No. 1,384,167; July 12; v. 288; p. 237.
Superheater Company, The. (See True, Charles H., assignor.)
Supplee, Samuel G., East Orange, N. J. Impression-tray. No. 1,385,505; July 26; v. 288; p. 671.
Sutton, Francis A., London, England, assignor to C. C. Williams, Acting Chief of Ordnance, U. S. Army, trustee. Time-fuse. No. 1,385,759; July 26; v. 288; p. 723.
Svensen, Carlos B., Buenos Aires, Argentina. Dismountable and portable plant for dipping sheep and the like. No. 1,384,168; July 12; v. 288; p. 238.
Svenska Aktiebolaget Mono. (See Rodhe, Olof, assignor.)
Swan, Samuel S., Eau Claire, Wis. Permutation-lock. No. 1,384,577; July 12; v. 288; p. 323.
Swanson, Frank H., Chicago, Ill., assignor to A. J. Nystrom and Company. Map-case. No. 1,384,874; July 19; v. 288; p. 465.
Swanson, John E. (See Green, Charles A., assignor.)
Swanson, Olof, Denver, Colo. Piston-rod lubricator and nut-retainer. No. 1,383,496; July 5; v. 288; p. 49.
Swanson, Swan. (See Olson, E. N., and Swanson.)
Swartz, Fred M., Providence, R. I. Clasp. No. 1,384,812; July 19; v. 288; p. 453.

Swartz, Ira, Breckenridge, Tex. Bailer. No. 1,385,760; July 26; v. 288; p. 723.
Sykes, George, assignor to Eagle Engineering Company, Limited, Warwick, England. Tilting-tool. No. 1,384,220; July 12; v. 288; p. 248.
Sylvester, Seymour, Brooklyn, assignor to Bass Bros., Incorporated, New York, N. Y. Pellet-inserting machine for piano-keys. No. 1,383,407; July 5; v. 288; p. 49.
Symons, Edwin F., Sloatsburg, N. Y. Key-holder. No. 1,384,497; July 12; v. 288; p. 306.
Szarvasy, Emerich, Budapest, Hungary. Production of fine soot suitable for the manufacture of pigments. No. 1,383,674; July 5; v. 288; p. 67.
Szymkiewicz, Maciej, Jersey City, N. J. Safety-lock. No. 1,383,443; July 5; v. 288; p. 39.
Taft-Peirce Manufacturing Company, The. (See Bryant, Elmer J., assignor.)
Taft-Peirce Manufacturing Company, The. (See Martell, Albert A., assignor.)
Talbot, Benjamin, Solberge, North Allerton, England. Metallurgical furnace. No. 1,383,444; July 5; v. 288; p. 39.
Tallaferro, Thomas L., Chicago, Ill. Forming closures for receptacles. No. 1,383,877; July 5; v. 288; p. 128.
Tangen, Alfred, Detroit, Mich. Micrometer. No. 1,385,405; July 26; v. 288; p. 650.
Tanner, Sheridan C., Relay, Md. Safety brush-brake for railway motor-cars. No. 1,385,729; July 26; v. 288; p. 717.
Tatum, John J., Baltimore, Md. Brake-beam support. No. 1,385,730; July 26; v. 288; p. 717.
Tausig, Joseph, Chicago, Ill. Sign-holder. No. 1,384,106; July 12; v. 288; p. 225.
Taylor, Augustus. (See Elliott, Harold F., assignor.)
Taylor, Blake, Roanoke, Va. Dumping mechanism for trucks. No. 1,383,498; July 5; v. 288; p. 50.
Taylor, James C., Dayton, Ohio. Toy whistle. No. 1,383,878; July 5; v. 288; p. 128.
Taylor, James T., Fort Worth, Tex. Box bull and calf wheel gudgeon. No. 1,385,026; July 19; v. 288; p. 497.
Taylor, Silas L., Wileyville, W. Va. Wrench. No. 1,385,506; July 26; v. 288; p. 671.
Taylor, Walter H., Guelph, Ontario, Canada. Surgical wound-dam. No. 1,385,346; July 19; v. 288; p. 562.
Taylor, William, Leicester, England. Apparatus for sawing glass. No. 1,385,731; July 26; v. 288; p. 717.
Taylor, William, Leicester, England. Glass-cutting apparatus. No. 1,385,732; July 26; v. 288; p. 718.
Teel, Monroe J., Anadarko, Okla. Vibration-absorbing device. No. 1,383,350; July 5; v. 288; p. 19.
Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,385,933; July 26; v. 288; p. 757.
Tennant, Fred E., *et al.* (See Shrum, Will N., assignor.)
Texas Company, The. (See Lorenz, Charles O., assignor.)
Theberath, Joseph C., Lakewood, Ohio, assignor to R. A. Rohrich, Cleveland, Ohio. Engine-support. No. 1,384,169; July 12; v. 288; p. 238.
Theft Warning Auto Lock Corporation. (See McDonald, John K., assignor.)
Theobald, Henry, assignor to Toledo Scale Company, Toledo, Ohio. Weighing-scale. No. 1,385,406; July 26; v. 288; p. 650.
Thomas & Betts Co., The. (See Thomas, George C., Jr., assignor.)
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Fuse-plug. No. 1,385,285; July 19; v. 288; p. 549.
Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Shade-holder. No. 1,385,896; July 26; v. 288; p. 750.
Thomas, George C., Jr., assignor to The Thomas & Betts Co., Elizabeth, N. J. Outlet-box. No. 1,383,879; July 5; v. 288; p. 129.
Thomas, George P., Glenshaw, Pa. Punching-machine. No. 1,383,673; July 5; v. 288; p. 86.
Thomas, Horace T., Lansing, Mich. Automobile construction. No. 1,383,880; July 5; v. 288; p. 129.
Thomas, Hubert S., Llandaff, W. D. Davies, Whitchurch, near Cardiff, Wales, and R. B. Thomas, deceased, by N. C. B. Thomas, Englefield Green, H. R. W. Anderson, London, and C. Bathurst, Lydney, England. Plate feeding apparatus. No. 1,384,646; July 12; v. 288; p. 338.
Thomas, Hubert S., Llandaff, W. R. Davies, Whitchurch, near Cardiff, Wales, and R. B. Thomas, deceased, by N. C. Beaumont-Thomas, Englefield Green, H. R. W. Anderson, London, and C. Bathurst, Lydney, England, executors. Apparatus for cleaning and polishing metal-coated plates. No. 1,384,647; July 12; v. 288; p. 338.
Thomas, Joseph L., Garfield, Utah. Flotation apparatus. No. 1,383,881; July 5; v. 288; p. 129.
Thomas, Phillips, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Apparatus for making condensers. No. 1,384,498; July 12; v. 288; p. 306.
Thomas, Richard B. (See Thomas H. S. Davies, and Thomas.)
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake-pipe vent-valve. No. 1,384,030; July 19; v. 288; p. 476.
Thomas, William. (See Goodwin, Jay L., assignor.)
Thomas, William R. (See Smith, William T., assignor.)
Thomas, William S., Lock Haven, Pa. Die. No. 1,383,675; July 5; v. 288; p. 87.
Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Pressure-cooker. No. 1,385,594; July 26; v. 288; p. 689.
Thompson, Carl G., Knoxville, Tenn. Driving mechanism for shaking-bolts. No. 1,383,676; July 5; v. 288; p. 87.
Thompson, Emery, New Rochelle, N. Y. Horizontal ice-cream freezer. No. 1,384,728; July 12; v. 288; p. 354.
Thompson, George, Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,383,677; July 5; v. 288; p. 87.
Thompson, Henry and S. H., Malvern, Melbourne, Victoria, Australia. Concrete and like building construction. No. 1,384,003; July 5; v. 288; p. 155.
Thompson, James S., Pelham, N. Y., assignor to The American Brake Shoe & Foundry Company, Wilmington, Del. Brake-shoe. No. 1,384,875; July 19; v. 288; p. 466.
Thompson, Mabel L., assignor of one-half to R. Woods, New York, N. Y. Cooking vessel. No. 1,384,786; July 19; v. 288; p. 447.
Thompson, Stanley H. (See Thompson, Henry, and S. H.)
Thomson, Thomas W., Los Angeles, Calif. Battery-plate. No. 1,385,507; July 26; v. 288; p. 672.
Thomson, William L., Newark, N. J., assignor to Safety Car Heating & Lighting Company. Electrical system. No. 1,384,981; July 19; v. 288; p. 488.
Thorne, Carl B., Hawkesbury, Ontario, Canada. Log-barker and the like. (Reissue.) No. 15,144; July 5; v. 288; p. 162.
Thornton, Stuart R., Berkeley, Calif. Internal-combustion engine. No. 1,385,161; July 19; v. 288; p. 525.
Thurston, Fred W. (See Bernay, Henri, assignor.)
Tibbets, Earl E., Hebron, Nebr. Valve-spring lifter. No. 1,384,648; July 12; v. 288; p. 339.
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,384,281; July 12; v. 288; p. 261.
Tice, Percival S., Chicago, Ill. Mixture-governing device for internal-combustion engines. No. 1,385,733; July 26; v. 288; p. 718.
Tillett, Charles H., and T. A. Allan, Montreal, Quebec, Canada. Crossing-gate. No. 1,384,544; July 12; v. 288; p. 316.
Tillyer, Edgar D., and C. H. Kerr, assignors to American Optical Company, Southbridge, Mass. Lens-testing instrument. No. 1,383,678; July 5; v. 288; p. 87.
Tillyer, Edgar D., assignor to American Optical Company, Southbridge, Mass. Motion-picture-projection apparatus. No. 1,385,162; July 19; v. 288; p. 526.
Timken Roller Bearing Co., The. (See Schlaupitz, Oswald, assignor.)
Timmons, John S., New York, N. Y. Telephone. No. 1,385,286; July 19; v. 288; p. 550.
Tinkham, Eugene L., assignor to Draper Corporation, Hopedale, Mass. Ward stop-motion for looms. No. 1,385,734; July 26; v. 288; p. 718.
Tirado, Alfred T., assignor of one-half to F. C. Schaeffer, Kansas City, Mo. Child's vehicle. No. 1,385,761; July 26; v. 288; p. 723.
Tisch, William, Milwaukee, Wis. Box-corner construction. No. 1,383,409; July 5; v. 288; p. 50.
Toledo Scale Company. (See Myers, Hubert A., assignor.)
Toledo Scale Company. (See Theobald, Henry, assignor.)
Tomlinson, Herbert O., Wheaton, Ill. Electric-light fixture. No. 1,384,578; July 12; v. 288; p. 323.
Topor, Jacob, assignor to Handy Furniture Manufacturing Company, Chicago, Ill. Table. No. 1,385,762; July 26; v. 288; p. 723.
Toomey, John F., New York, and C. S. Demarest, Brooklyn, N. Y., assignors to American Telephone and Telegraph Company. Automatic transmission-controlling means. No. 1,384,579; July 12; v. 288; p. 323.
Torrington Company, The. (See Graham, James H., assignor.)
Torrington Company, The. (See Graham, J. H., and Murdick, assignors.)
Tors, John, Campbell River, British Columbia, Canada. Spring-board. No. 1,384,580; July 12; v. 288; p. 324.
Towle, James M., West Somerville, assignor of one-half to L. I. Beckwith, Boston, Mass. Hose-coupling. No. 1,383,583; July 5; v. 288; p. 67.
Trammell, Earl M., and W. C. Carothers, Waco, Tex. Ironing-board. No. 1,384,361; July 12; v. 288; p. 278.
Transcontinental Oil Company. (See Kerr, Arthur N., assignor.)
Traube, Abraham, Brooklyn, N. Y. Process of and apparatus for supplying soap. No. 1,385,735; July 26; v. 288; p. 718.
Tranm, John, Coshocton, Ohio. Vulcanising device. No. 1,384,362; July 12; v. 288; p. 278.
Traut & Hine Mfg. Company, The. (See Humphrey, E. N., and Wardner, assignors.)
Trbojevich, Nikola. (See Olson, C. G., and Trbojevich.)
Tregillus, Harold G., Barrington, Ill. Device for bending plates. No. 1,383,882; July 5; v. 288; p. 129.
Trembley, Lou J., assignor of one-half to W. Cohagen and one-half to W. Wyscarver, Jr., Denver, Colo. Piston-ring. No. 1,385,508; July 26; v. 288; p. 672.
Tresidder, Tolmie J., Upper Norwood, London, England. Device for decapping armor-piercing shells. No. 1,385,897; July 26; v. 288; p. 750.
Tripoli, Joseph R. (See McVittie, Henry, assignor.)
Troutman, Frank E., Butler, Pa. Mechanism for shifting plate-glass-grinding tables. No. 1,385,852; July 26; v. 288; p. 741.

Trova, Oswald, assignor of one-half to King Bee Spark Plug Company, and one-half to F. J. Reppenhagen and J. E. Curley, St. Louis, Mo. Spark-plug. No. 1,384,413; July 12; v. 288; p. 289.

Troy Laundry Machinery Co. (See Malone, Ernest J., assignor.)

Trubenbach, Conrad D., Mount Vernon, and D. B. Sanneman, Brooklyn, N. Y., assignors to Perey Manufacturing Company. Turnstile. No. 1,385,971; July 26; v. 288; p. 764.

Truck, Tractor, and Manufacturing Company. (See Jacobs, I. M., and Cramer, assignors.)

True, Charles H., Hammond, Ind., assignor to The Superheater Company, New York, N. Y. Return-bend. No. 1,384,581; July 12; v. 288; p. 324.

Truitt, Joseph E., and E. Ackerman, Chicago, Ill. Self-cooled motor. No. 1,383,883; July 5; v. 288; p. 129.

Tucker, Samuel A., New York, N. Y. Method of and apparatus for refining metals. No. 1,384,499; July 12; v. 288; p. 306.

Tunison, Harold L., Upper Montclair, assignor to F. L. Dyer, Montclair, N. J. Automatic stop mechanism for talking-machines. No. 1,385,407; July 26; v. 288; p. 650.

Turck, Frederick M., East Orange, N. J. Printing-plate holder. No. 1,383,351; July 5; v. 288; p. 19.

Turner, William E. (See Haraison, G. C., and Turner.)

Turtle, Morton A., East Orange, N. J., assignor to W. S. Rockwell Company, New York, N. Y. Furnace with rotatable hearth. No. 1,385,480; July 26; v. 288; p. 666.

Tuttle, Clarence E., Readville, Mass. Artificial tooth. No. 1,384,282; July 12; v. 288; p. 261.

Twardowsky, John, Chicago, Ill., assignor to Central Scientific Company. Vacuum-pump. No. 1,385,101; July 19; v. 288; p. 573.

Twiford, William R., Manville, Wyo. Windmill. No. 1,384,787; July 19; v. 288; p. 447.

Twinomatic Machine and Tool Co. (See Barany, Edmund R., assignor.)

Twyman, Harold W., Norbury, London, England. Illuminated sign, facies, and the like. No. 1,385,764; July 26; v. 288; p. 724.

U. S. Bottlers Machinery Co. (See Risser, Arthur I., assignor.)

U. S. Products Corporation. (See Rossoe, Ragner A., assignor.)

Uhlig, Richard W., Arlington, N. J., assignor to Allen Typewriter Company, Allentown, Pa. Typewriting-machine. No. 1,384,788; July 19; v. 288; p. 447.

Under-Feed Stoker Company of America, The. (See De Voe, William E., assignor.)

Underwood Typewriter Company. (See Doane, John C., assignor.)

Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)

Union Bag and Paper Corporation. (See Witham, George S., jr., assignor.)

Union Special Machine Company. (See Wohlpart, August J., assignor.)

Union Steam Pump Company. (See Smith, Karl D., assignor.)

Union Stove Works. (See Myers, William H., assignor.)

United Drug Company. (See Hutcheson, Thomas C., assignor.)

United Shoe Machinery Corporation. (See Ashworth, Fred, assignor.)

United Shoe Machinery Corporation. (See Bertrand, Frederic E., assignor.)

United Shoe Machinery Corporation. (See Bollman, Charles M., assignor.)

United Shoe Machinery Corporation. (See Brogan, Michael F., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)

United Shoe Machinery Corporation. (See Erickson, Edward, assignor.)

United Shoe Machinery Corporation. (See Furber, Frederick M., assignor.)

United Shoe Machinery Corporation. (See Goddu, George, assignor.)

United Shoe Machinery Corporation. (See Johnson, Albert E., assignor.)

United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)

United Shoe Machinery Corporation. (See Standish, John F., assignor.)

United Shoe Machinery Corporation. (See Winkley, Erastus E., assignor.)

United Soda Fountain Company. (See Condon, Ernest L., assignor.)

United States Envelope Company. (See Cather, Charles E., assignor.)

United States Gypsum Company. (See Birdsey, Charles R., assignor.)

United States of America. (See Hawley, Lee F., assignor.)

Universal Lamp Co. (See Sherman, Jacob S., assignor.)

Universal Traffic Control Company, (a trust estate.) (See Wetter, Ralph E., assignor.)

Upson, Ralph H., assignor to The Goodyear Tire and Rubber Company, Akron, Ohio. Kite balloon. No. 1,385,972; July 26; v. 288; p. 764.

Vaco Manufacturing Corporation. (See Le Brun, Louis, assignor.)

Valentine, Joseph R., and F. W. Alkire, Salt Lake City, Utah. Footboard weather-guard. No. 1,385,287; July 19; v. 288; p. 550.

Van Dorn Iron Works Co., The. (See Barker, Percy E., assignor.)

Van Etten, William V., Bellingham, Wash. Seed separator and grader. No. 1,385,957; July 26; v. 288; p. 762.

Van Fleet, Frederick W., Toledo, Ohio. Frame for window-screens and making same. No. 1,385,958; July 26; v. 288; p. 762.

Van Heusen, John M. (See Bolton, John B., assignor.)

Van Ranst, Cornelius W., New Rochelle, N. Y. Apparatus and method for casting. No. 1,385,595; July 26; v. 288; p. 689.

Van Sciver, Josiah H., assignor to Automobile Appliances Co., Philadelphia, Pa. Automobile-signal. No. 1,385,596; July 26; v. 288; p. 689.

Van Sluys, Adolph C. (See Decker, J., and Van Sluys.)

Van Vleck, Peirce, and H. Cooper, assignors to W. H. Peirce, Baltimore, Md. Engine. No. 1,385,027; July 19; v. 288; p. 497.

Van Vleck, Peirce, and H. Cooper, assignors to W. H. Peirce, Baltimore, Md. Compound engine. No. 1,385,028; July 19; v. 288; p. 498.

Vance, Jesse L., Pomona, Calif. Gas-burner. No. 1,385,509; July 26; v. 288; p. 672.

Vance, Owen E., and P. S. Baker, Muscatine, Iowa. Automatic cooking-machine. No. 1,385,330; July 19; v. 288; p. 558.

Vander Veer, Benjamin B. (See Linden, John J., assignor.)

Varner, Andrew E. (See Belk, F. W., and Varner.)

Vasey, Joseph N., Brookfield, and B. R. Kiessig, assignors to Vocaltone-Pianotina Company, Chicago, Ill. Musical instrument of the string type. No. 1,383,500; July 5; v. 288; p. 50.

Vaughan, William T. (See Williams, George J., assignor.)

Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting-machine. No. 1,385,408; July 26; v. 288; p. 650.

Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting-machine. No. 1,385,409; July 26; v. 288; p. 650.

Veeder, Curtis H., assignor to The Veeder Manufacturing Company, Hartford, Conn. Counting-machine. No. 1,385,410; July 26; v. 288; p. 651.

Veeder Manufacturing Company, The. (See Veeder, Curtis H., assignor.)

Veenschoten, Vincent V., assignor to Northern Equipment Company, Erie, Pa. Feed-water-regulator valve. No. 1,384,414; July 12; v. 288; p. 289.

Verchak, Joseph, Nutter Fort, W. Va. Ship-raising device. No. 1,384,931; July 19; v. 288; p. 477.

Verstraete, Edmond, Belleville, N. J. Sofa-bed. No. 1,383,501; July 5; v. 288; p. 50.

Vesely, Stanley J., Cedar Rapids, Iowa. Shock-absorber. No. 1,384,545; July 12; v. 288; p. 316.

Vibber, Wheeler H., assignor of one-half to The Gillette-Vibber Co., New London, Conn. Terminal fitting for electrical installations. No. 1,385,650; July 26; v. 288; p. 701.

Victor Talking Machine Company. (See Burton, Isaac F., assignor.)

Vigneault, Alfred J., assignor of one-half to G. N. Vigneault, Worcester, Mass. Indicator for plate-holders. No. 1,384,363; July 12; v. 288; p. 278.

Vigneault, George N. (See Vigneault, Alfred J., assignor.)

Villegas, Carlos, Brooklyn, N. Y. Calculator for maturities. No. 1,384,789; July 19; v. 288; p. 448.

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,384,283; July 12; v. 288; p. 262.

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Hydrocarbon-motor. No. 1,384,284; July 12; v. 288; p. 262.

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Radiator for motor-vehicles. No. 1,384,285; July 12; v. 288; p. 262.

Vincent, John G., Tulsa, Okla. Traction-wheel. No. 1,384,170; July 12; v. 288; p. 238.

Viner, Raymond D., Ogden, Utah. Collapsible bucket. No. 1,385,934; July 26; v. 288; p. 757.

Vineyard, Pleas E., Windom, Tex. Accelerator for engines. No. 1,384,415; July 12; v. 288; p. 289.

Violet, René A. I. (See Zabar, Joseph A., assignor.)

Vivarttas, William O., Weehawken, N. J. Dust-cap for pneumatic tires. No. 1,385,055; July 19; v. 288; p. 503.

Vivian, Godfrey T. (See Conder, C. M., and Vivian.)

Vocaltone-Pianotina Company. (See Vasey, J. N., and Kiessig, assignors.)

Voith, George F., Philadelphia, Pa. Repeating device for talking-machines. No. 1,385,056; July 19; v. 288; p. 503.

Volkes, Morris, Brooklyn, N. Y. Hand-torch. No. 1,384,171; July 12; v. 288; p. 238.

Vom Baur, Carl H., Douglaston, N. Y. Electric furnace. No. 1,385,411; July 26; v. 288; p. 651.

Von Beck, Ernest. (See Glisoni, E., and von Beck.)

Von Ragué, Bettie, Chicago, Ill. Musical chart. No. 1,384,172; July 12; v. 288; p. 239.

Von Rentzsch, Robert D., *et al.* (See Goldstein, Barnett H., assignor.)

Von Thien, Theodore P. A. (See Jones, R. E., and von Thien.)

Von Zweigbergk, Gillis, St. Annes-on-Sea, England. Change-speed gear. No. 1,384,504; July 12; v. 288; p. 307.

Voorhees, George E., Jr., Santa Barbara, Calif. Demountable-rim wedge. No. 1,385,029; July 19; v. 288; p. 498.

Voorhees, John J., Jersey City, N. J. Material for producing patches for pneumatic tires and the like. No. 1,385,805; July 26; v. 288; p. 732.

Voss, William H., Davenport, Iowa. Washing-machine mechanism. No. 1,384,876; July 19; v. 288; p. 466.

Voss, William H., Davenport, Iowa. Washing-machine mechanism. No. 1,385,806; July 26; v. 288; p. 732.

Vultee, Charles F. L., Milwaukee, Wis. Vaginal syringe. No. 1,383,502; July 5; v. 288; p. 50.

Wachter, Louis E. F., New York, N. Y., assignor to Star Watch Case Co., Ludington, Mich. Watch-pendant. No. 1,383,884; July 5; v. 288; p. 130.

Wadler, Wilhelm, Weehawken, assignor of one-half to J. Hoch, West Hoboken, N. J. Gas and coal stove. No. 1,385,597; July 26; v. 288; p. 690.

Wagenhorst, James H., Akron, Ohio. Electric blue-printing machine. No. 1,383,352; July 5; v. 288; p. 19.

Wagenhorst, James H., Akron, Ohio. Electric blue-printing machine. No. 1,383,353; July 5; v. 288; p. 19.

Wagenhorst, James H., Jackson, Mich. Demountable rim for automobile-wheels. No. 1,383,679; July 5; v. 288; p. 87.

Wagner, Edward H. (See Bivins, Chalfant E., assignor.)

Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstads, Karlstad, Sweden. Strainer-cylinder for wood-pulp and cellulose. No. 1,385,340; July 19; v. 288; p. 560.

Wagner, Rudolf E., assignor to Aktiebolaget Karlstads Mekaniska Verkstads, Karlstad, Sweden. Pulp-vat and the like. No. 1,385,341; July 19; v. 288; p. 560.

Waithman, Charles H., London, assignor to J. W. Carr, Halifax, York, and J. Gardiner, London, England. Advertisement device. No. 1,385,194; July 19; v. 288; p. 532.

Walden, Marcus A., San Francisco, Calif. Music-leaf turner. No. 1,384,364; July 12; v. 288; p. 278.

Waldorf, John A., Salt Lake City, Utah. Metallic pipe-covering. No. 1,383,680; July 5; v. 288; p. 88.

Waldref, Grant. (See Anderson, Albert S., assignor.)

Walker, Edwin, deceased, Erie, Pa.; J. Sterrett and M. E. Steiner, administratrices. Making crown-openers. No. 1,385,976; July 26; v. 288; p. 765.

Walker, George W., Oakland, Calif. Toothpick-holder. No. 1,385,288; July 19; v. 288; p. 550.

Walker, Harry, Anaheim, Calif. Tire-carrier-locking device. No. 1,384,982; July 19; v. 288; p. 488.

Wall, Ashbel T., Providence, R. I. Safety-catch. No. 1,384,983; July 19; v. 288; p. 488.

Wall, John M., and C. Meldrum, Syracuse, N. Y. Taper and angle gage. No. 1,384,221; July 12; v. 288; p. 248.

Wallace, Allen, Moorestown, N. J., assignor to Baldwin Locomotive Works, Philadelphia, Pa. Footplate for electric locomotives. (Reissue.) No. 15,145; July 5; v. 288; p. 162.

Wallace Barnes Company, The. (See Moshier, James W., assignor.)

Wallburg, William V., Melrose, Mass. Confectionery-making machine. No. 1,383,681; July 5; v. 288; p. 88.

Wallace, William L., Davidson, N. C. Attachment for cigarette-holders. No. 1,384,813; July 19; v. 288; p. 453.

Walsh, John M., Petaluma, Calif. Street-semaphore. No. 1,384,365; July 12; v. 288; p. 279.

Ward, Frank D., New York, N. Y. Portable engine. No. 1,385,289; July 19; v. 288; p. 550.

Ward, James W., Mount Vernon, Ill. Feed-trough. No. 1,385,510; July 26; v. 288; p. 672.

Wardell, Henry R., New York, N. Y., assignor to Central Commercial Company, Chicago, Ill. Manufacture of asphalt. No. 1,385,511; July 26; v. 288; p. 672.

Wardner, Oel E. (See Humphrey, E. N., and Wardner.)

Waream, Charles E., and G. N. Link, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Pressing-machine. No. 1,385,057; July 19; v. 288; p. 503.

Wareham, Samuel L., and J. F. Pansner, Detroit, Mich. Overhead rotary valve for internal-combustion engines. No. 1,384,416; July 12; v. 288; p. 289.

Waring, Edward M., Brooklyn, N. Y. Cutting-machine. No. 1,384,107; July 12; v. 288; p. 225.

Wareing, J., and A. Hill, Rochdale, England. Impeller for centrifugal pumps. No. 1,383,354; July 5; v. 288; p. 20.

Warne, Frederick C., assignor to Roderick Lean Manufacturing Company, Mansfield, Ohio. Tractor-drawn tillage implement. No. 1,384,790; July 19; v. 288; p. 448.

Warner, Frederick W., Toronto, Ontario, Canada. Automatic gas-valve for water-heaters. No. 1,385,853; July 26; v. 288; p. 742.

Warter, Frank A., Perth Amboy, N. J. Valve. No. 1,385,058; July 19; v. 288; p. 504.

Washington Iron Works. (See Berger, Knute, assignor.)

Waterfield, Frank. (See Olsen, G. J., and Waterfield.)

Wasserfallen, Charles F., assignor to Detroit Tire Carrier Co., Detroit, Mich. Tire-rim carrier. No. 1,384,222; July 12; v. 288; p. 249.

Waterman, Charles A., Boston, and H. F. Smith, Medford, assignors to General Motorcycle Sales Company, Boston, Mass. Motorcycle-saddle. No. 1,384,791; July 19; v. 288; p. 448.

Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Power-lift plow. No. 1,384,792; July 19; v. 288; p. 448.

Watkins, Charles W., Dorrancetown, Pa. Switch for telephone-lines. No. 1,383,355; July 5; v. 288; p. 20.

Watkins, Gustav H., Jacksonville, Fla. Spanner-wrench. No. 1,384,684; July 12; v. 288; p. 346.

Watson, Bazel R., Everett, Wash. Saw-handle. No. 1,383,503; July 5; v. 288; p. 50.

Watson, Rommie P., Wilson, N. C. Tool for heading hogsheads. No. 1,384,650; July 12; v. 288; p. 339.

Watt, Glenn T., Minden, Nebr. Motor-vehicle lock. No. 1,385,030; July 19; v. 288; p. 498.

Watterson, William A., Eucharena, New South Wales, Australia. Apparatus for economizing fuel. No. 1,384,223; July 12; v. 288; p. 249.

Waugh, Edward H., assignor to Smith Cannery Machines Company, Seattle, Wash. Scraper for fish-dressing machines. No. 1,384,877; July 19; v. 288; p. 466.

Weagant, Roy A., Roselle Park, N. J., assignor, by mesne assignments, to Radio Corporation of America. Means for generating electrical oscillation. No. 1,384,108; July 12; v. 288; p. 225.

Weasler, Joseph, Cascade, Wis. Baby-carriage. No. 1,385,959; July 26; v. 288; p. 762.

Weaver, Clayton B., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Sheet-metal-bending machine. No. 1,384,814; July 19; v. 288; p. 453.

Weaver, S. Fullerton, *et al.*, trustees. (See Milliken, Foster, assignor.)

Weaver, Thomas D., assignor to Humphryes Manufacturing Company, Mansfield, Ohio. Power-pump. No. 1,383,885; July 5; v. 288; p. 130.

Webb, Jean F., Sr., New York, N. Y. Water-silencer. No. 1,383,886; July 5; v. 288; p. 130.

Weber, Bernard F., and F. E. Woodford, Chicago, Ill.; said Woodford assignor, by mesne assignments, to R. C. Penfield, New York, N. Y. Hoisting and conveying grapple. No. 1,384,793; July 19; v. 288; p. 449.

Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Weighing-scale. No. 1,383,604; July 5; v. 288; p. 51.

Weber, Mathias J., assignor to Continental Scale Works, Chicago, Ill. Weighing and measuring device. No. 1,383,605; July 5; v. 288; p. 51.

Weber, Walter S., assignor to W. H. Luden, Reading, Pa. Box-lining mechanism. No. 1,383,682; July 5; v. 288; p. 88.

Wedman, Otto, Tacoma, Wash. String-cutter. No. 1,384,651; July 12; v. 288; p. 339.

Weed, Harry D., U. S. Army. Safety-release wire-holder for aerial bombs. No. 1,385,598; July 26; v. 288; p. 690.

Wegner, Julius, assignor to H. Spadone and W. W. Spadone, New York, N. Y. Cutting and stripping machine. No. 1,384,984; July 19; v. 288; p. 488.

Weichhart, Henry A., assignor to The California Tool Works, San Francisco, Calif. Stud-driving wrench. No. 1,384,417; July 12; v. 288; p. 289.

Weier, Jacob J., assignor of one-third to F. J. Heitmann and one-third to W. A. Klatt, Chicago, Ill. Detachable motor-truck crawler. No. 1,383,356; July 5; v. 288; p. 20.

Weig, Ernest J. F., New York, N. Y. Garment-fastener. No. 1,384,685; July 12; v. 288; p. 346.

Weigel, John A. (See Kalberer, G. J., and Weigel.)

Weir Frog Company, The. (See Goldsmith, Nathaniel O., assignor.)

Weisgerber, Edwin C., U. S. Army. Valve-packing grease. No. 1,384,714; July 12; v. 288; p. 352.

Welthaus, John J., North Vernon, assignor of one-half to M. C. Ainsberry, Rushville, Ind. Oil-vaporizer. No. 1,384,004; July 5; v. 288; p. 155.

Welch, Edward P., Wilsonville, Conn. Gas-gun. No. 1,384,366; July 12; v. 288; p. 279.

Welling, Matthew J., assignor of one-third to J. C. Dysbeck, Chicago, Ill. Can-closure. No. 1,385,290; July 19; v. 288; p. 551.

Wells, Alfred A., Montclair, N. J. Oil-hardening. No. 1,383,887; July 5; v. 288; p. 130.

Wells, Elmer J., Nashua, Iowa. Stay-iron. No. 1,385,765; July 26; v. 288; p. 724.

Wells, Fred B., assignor to C. Durant, Hillyard, Wash. Remedy for hemorrhoids. No. 1,385,195; July 19; v. 288; p. 532.

Wells, John, Cairo, Egypt. Gas-producer. No. 1,385,291; July 19; v. 288; p. 551.

Wells, John F., Cairo, Egypt. Process and apparatus for carbonizing wood and other carbonaceous material. No. 1,383,888; July 5; v. 288; p. 130.

Wendeler, Ernst, assignor to Firm Deutsche Kraftspflug-Gesellschaft M. B. H., Berlin, Germany. Motor-plow. No. 1,385,960; July 26; v. 288; p. 762.

Wendelken, Richard, assignor to J. Winter, New York, N. Y. Carbureter. No. 1,383,889; July 5; v. 288; p. 131.

Wenderhold, William, assignor to Cru Patents Corporation, New York, N. Y. Universal projector-support. No. 1,383,683; July 5; v. 288; p. 88.

Werner, Lester A., assignor to F. W. Pinkus, New York, N. Y. Monogram-printing device. No. 1,385,766; July 26; v. 288; p. 724.

Wernery, Lester A., Brooklyn, N. Y., assignor to B. C. Stickney, Elizabeth, N. J. Indexed card system. No. 1,383,684; July 5; v. 288; p. 89.

Wescott, William B., Wellesley, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Motion-picture camera. No. 1,383,357; July 5; v. 288; p. 20.

West Coast Kalsomine Company. (See Ball, Frank, assignor.)

Westcott, Henry P., Erie, Pa. Attachment for differential and static pressure gages. No. 1,385,234; July 19; v. 288; p. 540.

Westerberg, Carl G., Monessen, Pa. Rim for vehicle-wheels. No. 1,383,358; July 5; v. 288; p. 21.

Westerlund, Charlie, Birmingham, Ala., assignor of one-third to F. W. Bostrom, Chicago, Ill. Heater attachment for grates and stoves. No. 1,383,506; July 5; v. 288; p. 51.

Western Electric Company. (See Arnold, Harold D., assignor.)

Western Electric Company. (See Bellamy, Harry T., assignor.)

Western Electric Company. (See Conway, Roy D., assignor.)

Western Electric Company. (See Edelmann, Otto, assignor.)

Western Electric Company. (See Egerton, Henry C., assignor.)

Western Electric Company. (See Elmen, Gustaf W., assignor.)

Western Electric Company. (See Ford, William H. D., assignor.)

Western Electric Company. (See Gent, Edgar W., assignor.)

Western Electric Company. (See Goodrum, Charles L., assignor.)

Western Electric Company. (See Hall, John A., assignor.)

Western Electric Company. (See Helsing, Raymond A., assignor.)

Western Electric Company. (See McQuarrie, James L., assignor.)

Western Electric Company. (See Merritt, Benjamin F., assignor.)

Western Electric Company. (See Mills, John, assignor.)

Western Electric Company. (See Mortimer, Louis A., assignor.)

Western Electric Company. (See Reynolds, John N., assignor.)

Western Electric Company. (See Thompson, George, assignor.)

Western Electric Company. (See Wilbur, Ray S., assignor.)

Western Electric Company. (See Wright, Joseph L., assignor.)

Western States Machine Company, The. (See Roberts, Eugene, assignor.)

Westgate, John, Brimstage, and C. E. H. Hawken, Wallasey, England. Railway-car and like vehicle. No. 1,384,500; July 12; v. 288; p. 306.

Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)

Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)

Westinghouse Electric and Manufacturing Company. (See Dodds, Samuel R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Eschholz, Otto H., assignor.)

Westinghouse Electric & Manufacturing Co. (See Herr, Herbert T., assignor.)

Westinghouse Electric & Manufacturing Co. (See Evans, Lewis J., assignor.)

Westinghouse Electric & Manufacturing Company. (See Fortescue, Charles L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Holy, George H. F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Jones, Maurice F., assignor.

Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)

Westinghouse Electric and Manufacturing Company. (See Thomas, Phillips, assignor.)

Westlake, Charles T., assignor to Commonwealth Steel Company, St. Louis, Mo. Car-truck. No. 1,385,737; July 26; v. 288; p. 718.

Westman, August, Quincy, Ill., assignor of one-half to E. A. Westman, St. Louis, Mo. Poultry-hover. No. 1,385,235; July 19; v. 288; p. 540.

Westman, Edward A. (See Westman, August, assignor.)

Weston, William S., Columbia, S. C. Fastening means for the head of gyratory crushing-machines. No. 1,383,359; July 5; v. 288; p. 21.

Wetter, Ralph E., assignor to Universal Traffic Control Company, (a trust estate,) Dallas, Tex. Traffic signal system. No. 1,385,807; July 26; v. 288; p. 733.

Whaley, W. B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Method and apparatus for controlling the condition of air in compartments. No. 1,384,367; July 12; v. 288; p. 279.

Wheeler, Silas N., Omaha, Nebr. Account-register. No. 1,383,890; July 5; v. 288; p. 131.

Wheildon, William M., Ashland, assignor to H. Angier, Framingham, Mass. Paper-crinkling apparatus. No. 1,383,360; July 5; v. 288; p. 21.

Whistance-Smith, Thomas, Mount Dennis, Ontario, Canada. Folding bed. No. 1,384,932; July 19; v. 288; p. 474.

Whitaker, John E., Monroe, La. Counter. No. 1,385,292; July 19; v. 288; p. 551.

Whitaker, Raymond A. (See Punnett, M. B., and Whitaker.)

Whitcomb, John D. (See Scott, J. H., and Whitcomb.)

White, Ernest W., Milford, assignor to M. G. Standley, Cincinnati, Ohio. Dining-table service-indicator. No. 1,383,685; July 5; v. 288; p. 89.

White, John W., assignor to William D. Rose, Lewistown, Mont. Wheel-traction device. No. 1,384,546; July 12; v. 288; p. 316.

White, William M., Milwaukee, Wis. Energy-translating device. No. 1,383,361; July 5; v. 288; p. 21.

White, William P., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Method and device for controlling preserving apparatus. No. 1,385,599; July 26; v. 288; p. 690.

Whitehead & Hoag Company, The. (See Knox, Culver B., assignor.)

Whiting, Ezra T., Green Lake, Wis. Air-heater. No. 1,385,651; July 26; v. 288; p. 701.

Whitman, Ray B. (See Cazenove, James O. H., assignor.)

Whitmore, William A., Nelsonville, Ohio. Water-feed for steam-boilers. No. 1,383,801; July 5; v. 288; p. 131.

Whitmoyer, Charles B., Muncy, Pa. Removable blade for cutter-bars. No. 1,384,933; July 19; v. 288; p. 477.

Whitney, Baxter D. & Son. (See Farnum, William C., assignor.)

Whiton, D. E., Machine Company. (See Whiton, L. E., and Lee, assignors.)

Whiton, Lucius E., and H. B. Lee, assignors to The D. E. Whiton Machine Co., New London, Conn. Steam-turbine. No. 1,384,286; July 12; v. 288. p. 262.

Whiton, Lucius E., and H. B. Lee, assignors to The D. E. Whiton Machine Company, New London, Conn. Automatic controlling apparatus for tank-pumps. No. 1,384,287; July 12; v. 288; p. 263.

Whitten, Frank A., assignor to General Motors Corporation, Detroit, Mich. Motor-car bumper. No. 1,383,892; July 5; v. 288; p. 131.

Whittle, Alexander, Kearney, N. J. Wave-motor. No. 1,385,738; July 26; v. 288; p. 719.

Whyte, Frederick M., Tarrytown, N. Y. Car-end construction. No. 1,384,368; July 12; v. 288; p. 279.

Wickey, Luke T. (See Hofer, A. H., and Wickey.)

Wicks, John, assignor to Automatic Electric Company, Chicago, Ill. Automatic telephone system. No. 1,385,347; July 19; v. 288; p. 562.

Widmaier, Adolf, Atlanta, Ga. Combined toothbrush and paste-container. No. 1,385,767; July 26; v. 288; p. 724.

Wiersbowski, Frank, Lorain, Ohio. Fire-brick trimming or beveling machine. No. 1,383,686; July 5; v. 288; p. 89.

Wiesener, William G., Sydney, New South Wales, Australia. Valve operating and locking device. No. 1,384,369; July 12; v. 288; p. 280.

Wigginton, George P., assignor to Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Temporary binder. No. 1,385,163; July 19; v. 288; p. 526.

Wikander, Oscar E., Pittsburgh, Pa., assignor to S K F Ball Bearing Company, Hartford, Conn. Flexible bushing. No. 1,384,173; July 12; v. 288; p. 239.

Wilke, Louis. (See Hanotte, Honore, assignor.)

Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,383,584; July 5; v. 288; p. 67.

Williamstyn, Henry, Rochester, N. Y. Steam-trap. No. 1,384,715; July 12; v. 288; p. 352.

Willett, Hazen F., assignor of one-half to J. R. Forman, Seattle, Wash. Chain-hoist. No. 1,385,600; July 26; v. 288; p. 690.

William Gent Vending Machine Company, The. (See Larsen, Arnold, assignor.)

Williams, Albert R., assignor to The Ironton Engine Company, Ironton, Ohio. Controller lock-lever. No. 1,385,935; July 26; v. 288; p. 757.

Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Train signaling and stopping mechanism. No. 1,383,862; July 5; v. 288; p. 21.

Williams, Clarence C., Acting Chief of Ordnance, U. S. Army, trustee. (See Sutton, Francis A., assignor.)

Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Train-controlling device. No. 1,385,059; July 19; v. 288; p. 504.

Williams, Frank C., Philadelphia, Pa., assignor to The Safety Block Signal Company. Automatic train-speed-controlling mechanism. No. 1,385,060; July 19; v. 288; p. 504.

Williams, George J., Camden, N. J., assignor of one-half to W. T. Vaughan, Philadelphia, Pa. Talking-machine-record-dispensing apparatus. No. 1,385,652; July 26; v. 288; p. 701.

Williams, Howard H. (See Zenner, P. M., and Williams.)

Williams, James P., Milton, Pa. Building-brick. No. 1,385,961; July 26; v. 288; p. 762.

Williams, Lyons H., Norfolk, Va. Changeable illuminated display device. No. 1,385,236; July 19; v. 288; p. 540.

Williams, Reginald V., Buffalo, N. Y. Bender for bars, rods, and wires. No. 1,385,481; July 26; v. 288; p. 666.

Williams, Thomas F., D. W. Coy, and H. B. Pruden, assignors to Powdered Coal Engineering and Equipment Company, Chicago, Ill. Apparatus for carbureting air with solid fuel. No. 1,385,412; July 26; v. 288; p. 651.

Williamson, George, Oldham, England. Boring and other cutting tool. No. 1,384,652; July 12; v. 288; p. 330.

Williamson, R., & Co. (See Yardley, Horace R., assignor.)

Williamson, Samuel, Leeds, England. Tie-frame. No. 1,384,370; July 12; v. 288; p. 280.

Willigman, Glen A. (See Justice, I. M., and Willigman.)

Willis, Leonard G. (See Spencer, Kelvin T., assignor.)

Wills, Walter B., Baltimore, Md. Dish-drainer. No. 1,384,582; July 12; v. 288; p. 324.

Willys-Overland Company. (See Belden, Edward H., assignor.)

Willys-Overland Company, The. (See Brockway, Carl P., assignor.)

Willys-Overland Company, The. (See Brown, Garnet C., assignor.)

Willys-Overland Company. (See McKinley, Charles W., assignor.)

Willys-Overland Company, The. (See Shepler, Harry L., assignor.)

Wilson & Bennett Manufacturing Company. (See Bennett, Stevens A., assignor.)

Wilson, Christopher N., Lawrence, Mass. Distilling or recovering naphtha or other hydrocarbons from wool-fat solutions. No. 1,383,585; July 5; v. 288; p. 68.

Wilson, Frank R., and A. O. Ringo, Williston, N. D. Mowing-machine. No. 1,384,288; July 12; v. 288; p. 263.

Wilson, James H., Chicago, Ill. Pail. No. 1,385,413; July 26; v. 288; p. 651.

Wilson, Joseph H., Houston, Tex. Sleeve-puller. No. 1,384,289; July 12; v. 288; p. 263.

Wilson, Paul, Pilot Oak, Ky. Time and cost computing and recording mechanism. No. 1,385,414; July 26; v. 288; p. 651.

Wilson, Stephen G., Philadelphia, Pa. Broom. No. 1,373,445; July 5; v. 288; p. 39.

Winchenbaugh, Lester P., Hyde Park, and L. Gentile, Melrose, Mass. Making colored paper. No. 1,384,290; July 12; v. 288; p. 263.

Winchester Repeating Arms Company, The. (See De Olaneta, Harold, assignor.)

Winchester Repeating Arms Co. (See Lane, Leavitt J., assignor.)

Wind, Isadore. (See Fullington, John H., assignor.)

Wing, Charles, Aurora, Ill. Grain-door fastener. No. 1,384,794; July 19; v. 288; p. 449.

Wingett, John N., assignor to The American Shale Refining Company, Denver, Colo. Distillation-furnace. No. 1,384,878; July 19; v. 288; p. 466.

Winkler, Jack L., Hempstead, N. Y. Time control. No. 1,383,893; July 5; v. 288; p. 132.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Automatic sole-machine. No. 1,383,446; July 5; v. 288; p. 89.

Winkley, Erastus E., Lynn, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Stock-cutting machine. No. 1,385,601; July 26; v. 288; p. 691.

Winslow Boiler & Engineering Company. (See Halvorsen, O. G., Hudson, Rhoads, assignors.)

Winslow, Francis A., assignor, by mesne assignments, to Austral Window Company, New York, N. Y. Window. (Reissue.) No. 15,146; July 5; v. 288; p. 162.

Winston, Benjamin C., Orr, N. D. Horse-collar. No. 1,383,507; July 5; v. 288; p. 51.

Wintemute, Charles E., Vancouver, British Columbia, Canada. Ironing-board connection. No. 1,384,371; July 12; v. 288; p. 280.

Winter, Julius. (See Wendelken, Richard, assignor.)

Winters, Alexander F., and B. R. Crampton, Grand Rapids, Mich. Latch. No. 1,385,102; July 19; v. 288; p. 518.

Winters, David L., Edgewater, Md. Operating and controlling means for carbureters. No. 1,384,291; July 12; v. 288; p. 263.

Wintherlich, Hans J., assignor of one-half to R. H. Larson, Omaha, Nebr. Milk-sterilizing jar-closure. No. 1,383,894; July 5; v. 288; p. 132.

Wippert, William O., and W. D. Spitzer, Marion, Ohio. Wooden heel. No. 1,384,109; July 12; v. 288; p. 226.

Wirebounds Patents Company. (See Inwood, R. G., and Bombardie, assignors.)

Wirth, Joseph, Fond du Lac, Wis. Cement-bag cleaner. No. 1,384,795; July 19; v. 288; p. 449.

Wisander, Hugo. (See Asplin, W. E., and Wisander.)

Wissel, Anthony J., trustee. (See Penrod, William F., assignor.)

Witham, George S., Jr., Hudson Falls, N. Y., assignor to Union Bag and Paper Corporation. Fiber-crossing apparatus for paper-machines. No. 1,383,363; July 5; v. 288; p. 22.

Witham, George S., Jr., Hudson Falls, N. Y. Heat-reclaiming system for pulp-mills. No. 1,384,796; July 19; v. 288; p. 449.

Witham, George S., Jr., Hudson Falls, N. Y. Paper-tester. No. 1,385,164; July 19; v. 288; p. 526.

Witherell, Earl M., assignor of one-half to F. A. Patrick & Company, Duluth, Minn. Hosiery-carriage. No. 1,384,547; July 12; v. 288; p. 317.

Withrow, Floyd G., Grand Rapids, Mich. Steering-rod shock-absorbing and antirattling device. No. 1,383,895; July 5; v. 288; p. 132.

Witt, Henry N., Morristown, Tenn. Truss. No. 1,383,778; July 5; v. 288; p. 108.

Witte, Lucile L., Kiel, Wis. Photograph-album. No. 1,385,196; July 19; v. 288; p. 532.

Witter, William S., Davenport, Iowa. Spark-plug and ignition tester. No. 1,385,415; July 26; v. 288; p. 652.

Wittig, Wilhelm, Augsburg, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fastening means for optical instruments. No. 1,385,512; July 26; v. 288; p. 673.

Witushen, Mitro, Milwaukee, Wis. Horseshoe. No. 1,383,508; July 5; v. 288; p. 51.

Woelfel, William, Peabody, Mass. Guard for protecting machine operators. No. 1,384,501; July 12; v. 288; p. 307.

Wohlpart, August J., New York, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Feeding mechanism for sewing-machines. No. 1,384,797; July 19; v. 288; p. 449.

Wolcott, Edson R., assignor to International Precipitation Company, Los Angeles, Calif. Separating suspended particles from gases. No. 1,383,586; July 5; v. 288; p. 68.

Wolf, Frederick W., Chicago, Ill. Controller for gas-burners. No. 1,385,513; July 26; v. 288; p. 673.

Wolhaupter, Benjamin, New Rochelle, N. Y. Rail-anchor. No. 1,385,936; July 26; v. 288; p. 757.

Wood, Albert B., *et al.* (See Brown, Charles A., assignor.)

Wood, Albert B., New Orleans, La. Meter. No. 1,383,687; July 5; v. 288; p. 89.

Wood, Guilford S., Chicago, Ill. Reinforced truck. No. 1,385,514; July 26; v. 288; p. 673.

Wood, John, assignor to R. H. Chitwood, Pembroke, Va. Ointment. No. 1,383,896; July 5; v. 288; p. 132.

Wood, Louis E., Farrell, Pa. Tape-measure. No. 1,383,587; July 5; v. 288; p. 68.

Wood, Merritt D., Clark, S. D. Cable-support. No. 1,384,583; July 12; v. 288; p. 324.

Wood, William D., Seattle, Wash. Photographic-printing machine. No. 1,384,372; July 12; v. 288; p. 280.

Wood, William M., New Brighton, and H. Reynolds, assignors to R. Hoe and Co., New York, N. Y. Plate-finishing machine. No. 1,385,416; July 26; v. 288; p. 652.

Wood, William P., assignor to Jenckes Spinning Company, Pawtucket, R. I. Bobbin-holding means. No. 1,385,962; July 26; v. 288; p. 763.

Woodford, Frank E. (See Weber, B. F., and Woodford.)

Woodley, James C., Evanston, Ill. Surface-finishing of bituminous-composition roofing. No. 1,384,110; July 12; v. 288; p. 226.

Woodruff, Albert N., New York, N. Y. Copy-holder. No. 1,383,897; July 5; v. 288; p. 132.

Woodruff, Sidney H. (See Giles, L., and Woodruff.)

Woods, Leonard, St. Louis, Mo. Trousers-supporter. No. 1,385,103; July 19; v. 288; p. 513.

Woods, Norman E., Paterson, N. J. Twist-drill. No. 1,384,733; July 12; v. 288; p. 355.

Woods, Rebecca. (See Thompson, Mabel L., assignor.)

Woodstock Typewriter Company. (See Hokanson, Otto A., assignor.)

Woodstock Typewriter Company. (See Prussynski, A. J., and Ebert, assignors.)

Woodward, Samuel B., Trenton, N. J. Guard for punching-machines. No. 1,385,237; July 19; v. 288; p. 540.

Wooley, John C., Moscow, Idaho. Tractor. No. 1,385,417; July 26; v. 288; p. 652.

Worcester Pressed Aluminum Company. (See Baker, Mark, assignor.)

Word, William W., Piedmont, Calif. Corner-trowel. No. 1,383,688; July 5; v. 288; p. 89.

Workman, Frances W., Los Angeles, Calif. Kitchen utensil. No. 1,383,779; July 5; v. 288; p. 109.

Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,383,364; July 5; v. 288; p. 22.

Worman, Oscar E., Minneapolis, Minn. Artificial limb. No. 1,383,365; July 5; v. 288; p. 22.

Wortman, Elbert B. M., assignor to Yawman and Erbe Mfg. Company, Rochester, N. Y. Book or folder. No. 1,383,366; July 5; v. 288; p. 22.

Wright, George H., Spokane, Wash. Planter. No. 1,385,938; July 26; v. 288; p. 758.

Wright, Isaac H., assignor to Smith & Coventry, Limited, Salford, Manchester, England. Drilling-machine. No. 1,385,293; July 10; v. 288; p. 551.

Wright, Joseph L., Cleveland, Ohio, assignor to Western Electric Company, Incorporated, New York, N. Y. Semi-automatic telephone-exchange system. No. 1,383,588; July 5; v. 288; p. 68.

Wrigley, William, Jr., Company. (See Kappes, Andrew C., assignor.)

Wygodsky, Leon, assignor to Baltimore Oil Engine Company, Baltimore, Md. Internal-combustion engine. No. 1,383,367; July 5; v. 288; p. 23.

Wyscarver, William, Jr., *et al.* (See Trembley, Lou J., assignor.)
Yahraus, George H. (See Fulkerson, W. J., and Yahraus.)
Yale & Towne Manufacturing Company. (See Augenbraun, Peter F., assignor.)
Yardley, Horace E., Chicago, Ill., assignor to R. Williamson & Co. Holder for lighting-fixtures. No. 1,384,174; July 12; v. 288; p. 239.
Yates, Spencer L., Oakland, Calif. Violin-bow guide. No. 1,384,292; July 12; v. 288; p. 264.
Yawman and Erbe Mfg. Company. (See Wortman, Elbert B. M., assignor.)
Young, Donald A. (See Hickson, J. M., and Young.)
Young, Edwin J. (See Parker, Lucian E., assignor.)
Young, John T., Elmira, N. Y. Journal-bearing. No. 1,384,502; July 12; v. 288; p. 307.
Younger, Winston R., Alexandria, La. Vulcanizer. No. 1,384,503; July 12; v. 288; p. 307.
Zahar, Joseph A., and E. A. L. Volet, Paris, France. Automatic indicating apparatus. No. 1,384,653; July 12; v. 288; p. 339.
Zaiden, David, New York, N. Y. Toy. No. 1,383,780; July 5; v. 288; p. 109.
Zancan, Ottavio, New York, N. Y. Tire construction. No. 1,385,653; July 26; v. 288; p. 702.
Zapis, William, Hopewell, N. J. Shoe-fastening. No. 1,384,815; July 19; v. 288; p. 463.
Zenker, Frederick. (See Horton, B. D., Ball, and Zenker.)
Zenner, Philip M., Athens, Ohio, and H. H. Williams, Huntington, W. Va. Envelop moistening, sealing, and stamping device. No. 1,384,879; July 19; v. 288; p. 466.
Zieba, John, Scranton, Pa. Toy scenery-box. No. 1,384,293; July 12; v. 288; p. 264.
Ziegler, Edward E., Philadelphia, Pa. Hair-cutter. No. 1,385,937, July 26; v. 288; p. 758.
Ziemendorf, Fred W., Neenah, Wis. Coupling for chains. No. 1,383,898; July 5; v. 288; p. 132.
Zim, Jesse G., Malden, Mass. Galley side-stick. No. 1,384,373; July 12; v. 288; p. 280.
Zimmermann, Simon. (See Palosky, F. C., and Zimmermann.)
Zimmermann, William F., Maplewood, assignor to Gould & Eberhardt, Newark, N. J. Spindle-supporting member. (Reissue.) No. 15,161; July 19; v. 288; p. 564.
Zink, H. J., *et al.* (See Dungan, John E., assignor.)
Zitzman, Edward J. (See Riley, Francis P., assignor.)
Zobel, Charles A., Phoenix, Ariz. Railway-crossing. No. 1,383,899; July 5; v. 288; p. 133.
Zorn, John B., Kansas City, Mo. Ice shaver and cracker. No. 1,385,294; July 19; v. 288; p. 551.
Zygalinski, John R., New Haven, Conn. Explosive-engine. No. 1,383,689; July 5; v. 288; p. 90.
Zygman, Joseph, Greenwich, Conn. Rail-joint. No. 1,385,197; July 19; v. 288; p. 533.

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Acme Shear Company, The. (See Conway, John J., assignor.)
Alderfer, John M., Akron, Ohio. Tire. No. 58,419; July 19; v. 288; p. 565.
Alfred Vester, Sons, Inc. (See Howell, Hamilton T., assignor.)
Allison, Estelle V., New York, N. Y. Dressed doll. No. 58,297; July 12; v. 288; p. 357.
Allison, Estelle V., New York, N. Y. Doll. Nos. 58,298–300; July 12; v. 288; p. 358.
Ambrosiewicz, Bronislaw, Hamtramck, Mich. Sewing-machine arm. No. 58,420; July 19; v. 288; p. 565.
American Can Company. (See Hothersall, John M., assignor.)
Amsden, Loriston F., Baltimore, Md., assignor of one-half to H. C. Mitchell, New York, N. Y. Supplementary waist for men's overcoats. No. 58,301; July 12; v. 288; p. 358.
Anderson, Carl O., Brooklyn, N. Y. Cotter-pin puller. No. 58,453; July 26; v. 288; p. 767.
Anderson, Victor A., Elmwood Park, Ill. Wrench. No. 58,454; July 26; v. 288; p. 767.
Arndt, George A., assignor to E. G. Johanson, Chicago, Ill. Headlight-reflector. No. 58,455; July 26; v. 288; p. 767.
Artcraft Fixture Company. (See Walker, Ernest A., assignor.)
Ashton Valve Company, The. (See Gaston, Charlie, assignor.)
Baldinger, Robert J., assignor to Harrison Fixture Works, Brooklyn, N. Y. Lamp-stand. No. 58,284; July 5; v. 288; p. 163.
Barnaby, Thomas, Middletown, Ohio. Dancing toy. No. 58,285; July 5; v. 288; p. 163.
Barth, L., & Son. (See Engelhardt, Martin M., assignor.)
Bartlett, Margaret S. (See Herman, Raymond L., assignor.)
Bartholomew, Kate L., Portland, Oreg. Cap. Nos. 58,302–3; July 12; v. 288; pp. 358–9.
Barton, Beatrice E. M., Birmingham, England. Masonic pendant. No. 58,304; July 12; v. 288; p. 359.
Batavia Rubber Company, The. (See Kling, Ernest F., assignor.)
Bauer, Frederick C., Sr., Camden, N. J. Spike. No. 58,456; July 26; v. 288; p. 768.
Bechtold, William S., Newark, N. J. Back of a mirror, brush, or similar toilet article. No. 58,421; July 19; v. 288; p. 565.
Belden, Edward H., Toledo, Ohio. Automobile-radiator casing. No. 58,422; July 19; v. 288; p. 565.
Bierbach, Carl F., Rochester, N. Y. Handle for a pocket-knife. Nos. 58,457–8; July 26; v. 288; p. 768.
Bonney Vise & Tool Works, Inc. (See Durham, Fred S., assignor.)
Bradley Knitting Company. (See Tyrrell, Wallace B., assignor.)
Breslavsky, Hyman, New York, N. Y. Setting for precious stones. No. 58,305; July 12; v. 288; p. 359.
Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade fabric. No. 58,459; July 26; v. 288; p. 768.
Busick, Paul M., Memphis, Tenn. Booth. No. 58,423; July 19; v. 288; p. 566.
Central Tool Company, The. (See Jaques, Fernando O., Jr., assignor.)
Clifford, Harold R., Rockford, Ill. Radiator-cap. No. 58,286; July 5; v. 288; p. 163.
Colonial Stamping Company. (See Schultz, Abraham J., assignor.)
Conway, John J., Bridgeport, Conn., assignor to The Acme Shear Company. Tension-spring for scissors and shears or similar article. No. 58,460; July 26; v. 288; p. 768.
Corona Cord Tire Company. (See Park, Clarence S., assignor.)
Courtot, Louis, Paris, France. Radiator. No. 58,424; July 19; v. 288; p. 566.
Cracraft, Julian L., Georgetown, Ky. Combined automobile radiator and hood. No. 58,287; July 5; v. 288; p. 163.
Crum, William I., Wichita, Kans. Cap. No. 58,306; July 12; v. 288; p. 359.
Dalton, Hubert, New York, N. Y. Frame for combination lathe, drilling, and milling machines. No. 58,461; July 26; v. 288; p. 769.
Davidson, Fanny. (See Davidson, Joseph, assignor.)
Davidson, Joseph, assignor to F. Davidson, Rockaway Beach, N. Y. Diamond-setting. No. 58,307; July 12; v. 288; p. 359.
Diefenbach, Henry C., Dayton, Ohio. Toy block. No. 58,462; July 26; v. 288; p. 769.
Downes, Elmer N., assignor to McClaren Rubber Company, Charlotte, N. C. Non-skid tire-tread. Nos. 58,463–5; July 26; v. 288; p. 769.
Dunham, George W., New York, N. Y., assignor to Graham Brothers, Evansville, Ind. Tractor. No. 58,466; July 26; v. 288; p. 769.
Durham, Fred S., Allentown, Pa., assignor to Bonney Vise & Tool Works, Inc., Philadelphia, Pa. Pliers. No. 58,467; July 26; v. 288; p. 770.
Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 58,468–70; July 26; v. 288; p. 770.
Electric Outlet Company. (See White, Ernest C., assignor.)
Engelhardt, Martin M., New York, N. Y., assignor to L. Barth & Son. Plate or similar article. No. 58,471; July 26; v. 288; p. 770.
English, Andrew J., and C. J. Hart, Cincinnati, Ohio. Tire-tool. No. 58,472; July 26; v. 288; p. 770.
Farr, Edward A., assignor to Manning, Bowman & Co., Meriden, Conn. Percolating-urn. No. 58,473; July 26; v. 288; p. 771.
Fessenden and Company, Inc. (See Harmstone, John H., assignor.)
Fish, Oscar B., St. George, N. Y. Pen and pencil holder. Nos. 58,425–34; July 19; v. 288; pp. 566–8.
Fishel, Henry W., New York, N. Y. Article of jewelry. Nos. 58,309–10; July 12; v. 288; p. 360.
Foster, Benjamin J., assignor to Samstag & Hilder Bros., New York, N. Y. Comb. No. 58,474; July 26; v. 288; p. 771.
Frank, David C., assignor to Pelgram & Meyer, New York, N. Y. Narrow fabric. Nos. 58,475–6; July 26; v. 288; p. 771.
Frankelite Co., The. (See Hols, Bernard, assignor.)
Franklin Knitting Mills. (See Warms, Sidney, assignor.)
Freeman, Lottie E., Boston, Mass. Child's garment. No. 58,308; July 12; v. 288; p. 359.
Gage, Samuel, Holloway, London, assignor to The London General Omnibus Company, Limited, Broadway, Westminster, London, England. Motor-omnibus body. No. 58,288; July 5; v. 288; p. 164.
Gaston, Charlie, Chicago, Ill., assignor to The Ashton Valve Company, Boston, Mass. Pressure-indicating gage. No. 58,477; July 26; v. 288; p. 772.
Gauntt, Warren S., Kansas City, Mo. Tire-tread. No. 58,478; July 26; v. 288; p. 772.

Geary, John H., Chicago, Ill. Military-service button. No. 58,311; July 12; v. 288; p. 360.
Giclas, Louis, Washington, D. C. Advertising-sign or similar article. No. 58,435; July 19; v. 288; p. 569.
Gollesch, Martin E., Plankinton, S. D. Finger-ring or similar article. No. 58,312; July 12; v. 288; p. 360.
Gore, Clarence B., Chicago, Ill. Emblem-button. No. 58,436; July 19; v. 288; p. 569.
Graff, George, New York, N. Y., and W. A. Kennedy, Leonia, N. J., assignors to Graff, Washbourne & Dunn, New York, N. Y. Electric fan and heating device. No. 58,289; July 5; v. 288; p. 164.
Graff, Washbourne & Dunn. (See Graff, G., and Kennedy, assignors.)
Graham Brothers. (See Dunham, George W., assignor.)
Gramitto, Geovonni B., Rochester, N. Y. Phonograph-cabinet. No. 58,437; July 19; v. 288; p. 569.
Griffin, Patrick J., Boston, Mass. Spark-plug. No. 58,438; July 19; v. 28; p. 569.
Grinnell, Brayton C., Seattle, Wash. Glove. No. 58,313; July 12; v. 288; p. 360.
Gruelle, John B., Norwalk, Conn. Toy animal. No. 58,314; July 12; v. 288; p. 360.
Gudeman, Leo, New York, N. Y. Fluid-receiving receptacle. Nos. 58,290–1; July 5, v. 288; p. 164.
Halloran, John J., Daly City, Calif. Radiator-cap. No. 58,292; July 5; v. 288; p. 164.
Hamill, Frae C., Los Angeles, Calif. Doll. No. 58,315; July 12; v. 288; p. 361.
Harmstone, John H., Attleboro, Mass., assignor to Fessenden and Company, Inc., Providence, R. I. Handle of a spoon, fork, or similar article. No. 58,479; July 26; v. 288; p. 772.
Harrison Fixture Works. (See Baldinger, Robert J., assignor.)
Hart, Charles J. (See English, A. J., and Hart.)
Hauser & Well (See Hauser, Leopold, assignor.)
Hauser, Leopold, assignor to Hauser & Well, New York, N. Y. Buckle. No. 58,480; July 26; v. 288; p. 772.
Hawkins, Frederick L., Mishawaka, Ind. Combined shade and curtain-pole bracket. No. 58,481; July 26; v. 288; p. 772.
Heald, Adelaide, Washington, D. C. Combined garter and powder-puff receptacle. No. 58,316; July 12; v. 288; p. 361.
Helin, Vernie R., Chicago, Ill. Combination-tool. No. 58,482; July 26; v. 288; p. 773.
Heller, L., & Son. (See Heller, Samuel, assignor.)
Heller, Samuel, assignor to L. Heller & Son Inc., New York, N. Y. Precious, semiprecious, or synthetic stone or an imitation thereof or an article of similar nature. Nos. 58,317–26; July 12; v. 288; pp. 361–3.
Herman, Raymond L., New York, N. Y., assignor to M. S. Bartlett, East Orange, N. J. Toy. No. 58,483; July 26; v. 288; p. 773.
Herrin, Charles W., Burkburnett, Tex. Watch-fob. No. 58,327; July 12; v. 288; p. 363.
Hilliker, Edwin E., East Aurora, N. Y. Oil-stove. Nos. 58,439–40; July 19; v. 288; pp. 569–70.
Hobe, William W., New York, N. Y. Button. Nos. 58,484–6; July 26; v. 288; pp. 773–4.
Holmes, Andrew J., Tacoma, Wash. Electric heater. No. 58,487; July 26; v. 288; p. 774.
Holz, Bernard, assignor to The Frankelite Co., Cleveland, Ohio. Surface ornamentation for an article of manufacture. No. 58,328; July 12; v. 288; p. 364.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 58,329–83; July 12; v. 288; pp. 364–77.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Cap for a talcum-powder box. No. 58,417; July 12; v. 288; p. 384.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 58,418; July 12; v. 288; p. 384.
Howell, Hamilton T., New York, N. Y., assignor to Alfred Vester Sons, Inc., Providence, R. I. Plate for lighting-fixtures. No. 58,488; July 26; v. 288; p. 774.
Indera Mills, The. (See Siewers, Walter L., assignor.)
International Association of Civitan Clubs. (See Shropshire, Courtney W., assignor.)
International Silver Company. (See Lashar, Thomas B., assignor.)
Jacobsen, Veder, Chicago, Ill. Emblem. No. 58,441; July 19; v. 288; p. 570.
Jaques, Fernando O., Jr., Providence, assignor to The Central Tool Company, Cranston, R. I. Handle for a micrometer-caliper. No. 58,489; July 26; v. 288; p. 774.
Jasus, John, Catlin, Ill. Nail. No. 58,442; July 19; v. 288; p. 570.
Jeffries, Anna S., Clearmont, Wyo. Cap. No. 58,384; July 12; v. 288; p. 378.
Johannknecht, Frederick A., Birmingham, Ala. Vehicle. No. 58,490; July 26; v. 288; p. 775.
Johanson, Emil G. (See Arndt, George A., assignor.)
Johnson, Frances, Chicago, Ill. Doll. No. 58,385; July 12; v. 288; p. 378.
Johnston, Joseph B. (See Peat, S. H., and Johnston.)
Johnston, Perry B., Duncan, Okla. Ring, brooch, or pin. No. 58,386; July 12; v. 288; p. 378.
Jovnes, Annie I., Savannah, Ga. Combined bed and settee. No. 58,387; July 12; v. 288; p. 378.
Kelley, Hazel, San Jose, Calif. Doll. No. 58,388; July 12; v. 288; p. 378.
Kennedy, William A. (See Graff, G., and Kennedy.)
Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
Kling, Ernest F., assignor to The Batavia Rubber Company, Batavia, N. Y. Tire-tread. No. 58,491; July 26; v. 288; p. 775.
Koons, Frederick W., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Handle for a spoon, fork, or similar article. No. 58,492; July 26; v. 288; p. 775.
Lashar, Thomas B., Fairfield, assignor to International Silver Company, Meriden, Conn. Spoon, fork, or similar article. No. 58,493; July 26; v. 288; p. 775.
Laskey, Bertha E., Skowhegan, Me. Pin. No. 58,443; July 19; v. 288; p. 570.
Lawlor, Emery L., Youngstown, Ohio. Tire. No. 58,494; July 26; v. 288; p. 775.
Le Claire, Theodore N., St. Paul, Minn. Pugilist doll. No. 58,389; July 12; v. 288; p. 378.
Lee, Thomas L., assignor to North East Electric Company, Rochester, N. Y. Casing of an induction-coil. No. 58,495; July 26; v. 288; p. 776.
Levy, Sol. (See Zamsky, H., and Levy.)
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Cutlery-cabinet. No. 58,293; July 5; v. 288; p. 165.
London General Omnibus Company. (See Gage, Samuel, assignor.)
Lustig, Albert, San Francisco, Calif. Doll. No. 58,390; July 12; v. 288; p. 379.
McClaren Rubber Company. (See Downes, Elmer N., assignor.)
McGregor, Allan L., Chicago, Ill. Cap for automobile-radiators. No. 58,294; July 5; v. 288; p. 165.
McKinley, Caroline B., Washington, D. C. Costume. No. 58,447; July 19; v. 288; p. 571.
Malavarca, Eduardo, Newark, N. J. Doll. Nos. 58,391–2; July 12; v. 288; p. 379.
Maher, William F., New York, N. Y. Clock-face. No. 58,444; July 19; v. 288; p. 570.
Manning, Bowman & Co. (See Farr, Edward A., assignor.)
Mannino, Giuseppe, Philadelphia, Pa. Illuminating device. No. 58,496; July 26; v. 288; p. 776.
Marcellus, Percy S., Orange, N. J. Toothbrush. No. 58,445; July 19; v. 288; p. 571.
Marks, Charles W., Tracy, Minn. Pennant. No. 58,393; July 12; v. 288; p. 379.
Mathieu, Frederick W. (See Strahan, G. V., and Mathieu.)
Mayer, Marcus L., and G. H. Phelps, St. Louis, Mo. Novelty figure. No. 58,446; July 19; v. 288; p. 571.
Meyers, Vernice, Three Oaks, Mich. Electric-light stand. No. 58,394; July 12; v. 288; p. 379.
Miller, Abraham, New York, N. Y. Lighting-fixture arm. No. 58,497; July 26; v. 288; p. 776.
Mitchell, Harold C. (See Amsden, Loriston F., assignor.)
Mitchell Vance Co. (See Strahan, G. V., and Mathieu, assignors.)
Nettleton, Clark, Seattle, Wash. Flag, pennant, emblem, or article of a similar nature. No. 58,395; July 12; v. 288; p. 379.
North East Electric Company. (See Lee, Thomas L., assignor.)
Olaguibel, Juan, Mexico, Mexico. Statuette. No. 58,396; July 12; v. 288; p. 380.
Ouzoun-Boghossian, Sissak K., Washington, D. C. Watch-movement case. No. 58,498; July 26; v. 288; p. 776
Ouzoun Boghossian, Sissag K., Washington, D. C. Phonograph-cabinet. No. 58,499; July 26; v. 288; p. 777.
Park, Clarence S., assignor to Corona Cord Tire Company East Butler, Pa. Rubber tire. No. 58,500; July 26 v. 288; p. 777.
Pease, Ephraim S., Buffalo, N. Y. Iceless refrigerant. No. 58,501; July 26; v. 288; p. 777.
Peat, Sidney H., and J. B. Johnston, Kansas City, Mo. Statuette. No. 58,397; July 12; v. 288; p. 380.
Peck, William A., assignor to The Simpson-Peck Manufacturing Company, New Haven, Conn. Nail-set. No. 58,502; July 26; v. 288; p. 778.
Pelgram & Meyer. (See Frank, David C., assignor.)
Percy, Richard, Chicago, Ill. Patriot emblem, emblazoned or illuminated placard, flag, pennant, banner, or article of similar nature. No. 58,448; July 19; v. 288; p. 571.
Peshkin, William, New York, N. Y. Case for pencils. No. 58,398; July 12; v. 288; p. 380.
Phelps, George H. (See Mayer, M. L., and Phelps.)
Price, Claude E., Spokane, Wash. Candy-box. No. 58,449; July 19; v. 28; p. 571.
Qua, Arthur M., Grand Rapids, Mich. Vest. No. 58,399; July 12; v. 288; p. 380.
Radford, George, Phenix, assignor to Richmond Lace Works, Alton, R. I. Lace. No. 58,503; July 26; v. 288; p. 778.
Rancel, William T., Oakland, Calif. Tire-rack. No. 58,504; July 26; v. 288; p. 778.
Redeker, Robert E., Chicago, Ill. Ring. No. 58,400; July 12; v. 288; p. 380.
Reith, William G., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,505; July 26; v. 288; p. 778.
Reliable Knitting Works. (See Rosenberg, Samuel, assignor.)
Richmond Lace Works. (See Radford, George, assignor.)

Robbins, Meyer L., assignor to Untermeyer, Robbins & Co., New York, N. Y. Ring or like article. No. 58,401; July 12; v. 288; p. 381.
Rogers, Lunt & Bowlen Company. (See Koonz, Frederick W., assignor.)
Rose, Oscar R., Chicago Heights, Ill. Breastpin or badge. No. 58,450; July 19; v. 288; p. 572.
Rosenberg, Samuel, assignor to Reliable Knitting Works, Milwaukee, Wis. Knitted cap. No. 58,402; July 12; v. 288; p. 381.
Samstag & Hilder Bros. (See Foster, Benjamin J., assignor.)
Schaller, Gus, St. Louis, Mo. Seesaw. No. 58,506; July 26; v. 288; p. 778.
Schirra, Julius, Pittsburgh, Pa. Music-roll-repair device. No. 58,507; July 26; v. 288; p. 778.
Schmick, Carrie R., Rocky River, Ohio. Work-garment. No. 58,403; July 12; v. 288; p. 381.
Schultz, Abraham J., Newark, N. J., assignor to Colonial Stamping Company, Inc. Cap for posts. Nos. 58,508–10; July 26; v. 288; pp. 778–9.
Shaw, Eulalia M., Los Angeles, Calif. Doll. No. 58,401; July 12; v. 288; p. 381.
Shropshire, Courtney W., assignor to International Association of Civitan Clubs, Birmingham, Ala. Emblem, badge, button, pin, fob, ring, or like article of manufacture. No. 58,511; July 26; v. 288; p. 779.
Siewers, Walter L., assignor to The Indera Mills, Winston-Salem, N. C. Undergarment or article of similar nature. No. 58,406; July 12; v. 288; p. 381.
Simon, Franklin, New York, N. Y. Scarf. No. 58,406; July 12; v. 288; p. 382.
Simpson-Peck Manufacturing Company, The. (See Peck, William A., assignor.)
Siverman, Charles, Providence, R. I. Collar-holder. No. 58,295; July 5; v. 288; p. 165.
Steck, Frank W., Buffalo, N. Y. Talking-machine case. Nos. 58,512–13; July 26; v. 288; p. 779.
Strahan, George V., Newark, N. J., and F. W. Mathieu, assignors to Mitchell Vance Co., Inc., New York, N. Y. Standard for a lighting-fixture. Nos. 58,407–8; July 12; v. 288; p. 382.
Sturm, Rudolph, St. Paul, Minn. Bracelet, napkin-ring, or article of a similar nature. No. 58,409; July 12; v. 288; p. 382.
Sucatre, Victoriano, San Francisco, Calif. Floral holder. Nos. 58,451–2; July 19; v. 288; p. 572.
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Susquehanna Silk Mills. (See Eisele, Adolphe, assignor.)
Susquehanna Silk Mills. (See Reith, William G., assignor.)
Szimanski, Stanislaw, Newark, N. J. Lavallière. No. 58,410; July 12; v. 288; p. 383.
Tauscher, Harry J., assignor to Up to Date Machine Works, Chicago, Ill. Radiator-cap. No. 58,514; July 26; v. 288; p. 780.
Tharaud, Justin, Weehawken, N. J. Dish or similar article. No. 58,515; July 26; v. 288; p. 780.
Tyrrell, Wallace E., assignor to Bradley Knitting Company, Delavan, Wis. Bathing-suit. No. 58,411; July 12; v. 288; p. 383.
Unmack, Lucy G., Los Angeles, Calif. Lamp. No. 58,412; July 12; v. 288; p. 383.
Untermeyer, Robbins & Co. (See Robbins, Meyer L., assignor.)
Up to Date Machine Works. (See Tauscher, Harry J., assignor.)
Wahl Company, The. (See Wahl, John C., assignor.)
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pen or pencil case. No. 58,516; July 26; v. 288; p. 780.
Walker, Ernest A., assignor to Arteraft Fixture Company, Newark, N. J. Plate for lighting-fixtures. No. 58,517; July 26; v. 288; p. 780.
Waterman, Mabel, New Rochelle, N. Y. Toy rabbit known as Peter Bunny. No. 58,413; July 12; v. 288; p. 383.
White, Ernest C., assignor to Electric Outlet Company, Inc., New York, N. Y. Electrical receptacle. No. 58,518; July 26; v. 288; p. 780.
Wigder, Bernard, Newark, N. J. Manicure implement. No. 58,519; July 26; v. 288; p. 780.
Williams, Mary A., New York, N. Y. Petticoat. No. 58,414; July 12; v. 288; p. 383.
Williams, Theodosius A., Battle Ground, Wash. Spoon-handle. No. 58,520; July 26; v. 288; p. 781.
Worms, Sidney, New Rochelle, assignor to Franklin Knitting Mills, New York, N. Y. Knitted or netted fabric. Nos. 58,521–5; July 26; v. 288; p. 781.
Wurth, William, Cleveland, Ohio. Display device. No. 58,296; July 5; v. 288; p. 165.
Zamsky, Harry, and S. Levy, New York, N. Y. Utility-stand for desks. No. 58,415; July 12; v. 288; p. 384.
Zbikowski, Joseph, Cleveland, Ohio. Whirling toy. No. 58,526; July 26; v. 288; p. 781.
Ziegler, Alfred M., Newton, Mass. Garment-supporter. No. 58,416; July 12; v. 288; p. 384.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. P. W. Paper Co., Albany, N. Y. Toilet-paper and paper towels. No. 145,032; July 26; v. 288; p. 811.
A/S Det Almindelige Handelskompagni, Copenhagen, Denmark. Dried fruits, canned fruits, and fish. No. 145,108; July 26; v. 288; p. 813.
Abrams, Saul D., Boston, Mass. Tea, coffee, cocoa, spices. No. 144,677; July 19; v. 288; p. 615.
Acheson Graphite Company, Niagara Falls, N. Y. Electrodes, anodes, and carbon-brushes. No. 144,982; July 19; v. 288; p. 625.
Adam, Leonard, Chicago, Ill. Indelible writing-ink in powdered form. No. 144,983; July 19; v. 288; p. 625.
Adams & Westlake Company, The, Chicago, Ill. Hardware and bath-room accessories. No. 144,333; July 5; v. 288; p. 191.
Aktiebolaget Tidan, Mariestad and Leksberg, Sweden. Vulcanized-fiber toothed wheels and pickers for looms. No. 145,233; July 26; v. 288; p. 817.
Alberger Pump and Condenser Company, New York and Newburgh, N. Y. Air compressors and ejectors. No. 145,240; July 26; v. 288; p. 819.
Alexander and Lavenson Electrical Supply Co., San Francisco, Calif. Electric cord connections for heating appliances. No. 144,334; July 5; v. 288; p. 191.
Allen, Simeon C., Rochester, N. Y. Tools for handling casks, &c. No. 145,024; July 26; v. 288; p. 811.
Alligator Liniment Company, The, Charleston, S. C. Medicinal preparations. No. 145,241; July 26; v. 288; p. 819.
Allured, Earl R., Chicago, Ill. Monthly publication. No. 145,212; July 26; v. 288; p. 817.
Alpha Laboratories, Inc., New York, N. Y. Incandescent lamps. No. 144,678; July 19; v. 288; p. 615.
Alpha-Lux Company, Inc., New York, N. Y. Artificial-pumice bricks. No. 144,679; July 19; v. 288; p. 615.
Alton Mercantile Company, The, Enid, Okla. Foods and ingredients of foods. No. 144,505; July 5; v. 288; p. 197.
American Art Student Publishing Co., New York, N. Y. Monthly art-magazine. No. 144,680; July 19; v. 288; p. 615.
American-Brake Lining Company, Lansdale, Pa. Asbestos wire-woven brake lining, clutch-facings, &c. No. 144,336; July 5; v. 288; p. 191.
American Bureau of Engineering, Inc., Chicago, Ill. Burning-lead molds. No. 144,335; July 5; v. 288; p. 191.
American Bureau of Engineering Inc., Chicago, Ill. Battery turntables, plate presses, steamers, &c. No. 145,025; July 26; v. 288; p. 811.
American Encaustic Tiling Co. Ltd., Zanesville, Ohio, and New York, N. Y. Wall, floor, and ceiling tiles. No. 144,506; July 5; v. 288; p. 197.
American Hammered Piston Ring Company, The, Baltimore, Md. Piston-rings. No. 144,543; July 12; v. 288; p. 423.
American Laboratories Inc., Richmond, Va. Chemicals, medicines, and toilet preparations. No. 144,337; July 5; v. 288; p. 191.
American Magnesia Products Co., Chicago, Ill. Composition for making floors, walls, and partitions. No. 144,338; July 5; v. 288; p. 191.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine manufactured from vegetable fiber. No. 144,507; July 5; v. 288; p. 197.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Bagging manufactured from jute fiber. No. 145,242; July 26; v. 288; p. 819.
American Net & Twine Co., East Cambridge, Mass. Twine and fiber cord. No. 144,681; July 19; v. 288; p. 615.
American Piano Company, Jersey City, N. J., and New York, N. Y. Pianos and player-pianos. No. 144,984; July 19; v. 288; p. 625.
American Pin Company, The, Waterbury, Conn. Pins for bank and general office use. No. 144,508; July 5; v. 288; p. 197.
American Pop Corn Company, Sioux City and Schaller, Iowa. Popcorn. Nos. 144,682–3; July 19; v. 288; p. 615.
American Sheet and Tin Plate Company, Pittsburgh, Pa. Iron and steel sheets and plates and tin and terne plates. No. 145,026; July 26; v. 288; p. 811.
American Show Case and Mfg. Co., Detroit, Mich. Soda-fountains. No. 145,027; July 26; v. 288; p. 811.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y., and Worcester, Mass. Plain and galvanized woven-wire concrete-reinforcement. No. 144,985; July 19; v. 288; p. 625.
American Tap and Die Co., Greenfield, Mass. Cleavers. No. 145,028; July 26; v. 288; p. 811.

American Tissue Mills, Holyoke, Mass. Plain and crape tissue papers, paper napkins, &c. No. 144,684; July 19; v. 288; p. 615.
American Tripoli Company, Seneca, Mo. Tripoli flour. Nos. 144,509–10; July 5; v. 288; p. 197.
American Tripoli Company, Seneca, Mo. Tripoli flour, (ground tripoli stone.) Nos. 145,243–5; July 26; v. 288; p. 819.
Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. Nos. 145,029–30; July 26; v. 288; p. 811.
Anderson Electric & Equipment Company, Chicago, Ill. Electric lamps suitable for vehicles, spot and search lights, &c. No. 144,685; July 19; v. 288; p. 615.
Anderson, James, Cleveland, Ohio. Portable and stationary buildings and assembled units thereof. No. 144,986; July 19; v. 288; p. 625.
Andrew's Mill Company, Frankford, Pa. Woolen goods in the piece. No. 145,031; July 26; v. 288; p. 811.
Andy, Jay W., Toledo, Ohio. Medicinal preparation. No. 144,511; July 5; v. 288; p. 197.
Angora Specialty Co. Inc., New York and Brooklyn, N. Y. Woolen piece goods. No. 144,686; July 19; v. 288; p. 615.
Appel Battery Service Company, St. Louis, Mo. Storage batteries and parts, electric switches, bulbs, &c. No. 144,339; July 5; v. 288; p. 191.
Apple Hat Company, St. Louis, Mo. Periodical published semiannually. No. 144,687; July 19; v. 288; p. 615.
Ashby Printing Company, Erie, Pa. Paper suitable for use in printing and writing. No. 144,688; July 19; v. 288; p. 615.
Associated Clothiers, The, Sparta, Ill. Collars, underwear, shirts, sweaters, neck wear, gloves, &c., for men and boys. No. 144,689; July 19; v. 288; p. 615.
Associated Firat National Pictures Inc., New York, N. Y. Motion-picture films. No. 144,690; July 19; v. 288; p. 615.
Aterite Co. Inc., New York, N. Y. Non-ferrous alloys for the manufacture of valves, cocks, castings, &c. No. 144,691; July 19; v. 288; p. 615.
Atlanta Barbers' Supply Co., Atlanta, Ga. Hair-tonics and scalp-dressing. No. 144,987; July 19; v. 288; p. 625.
Atlantic Chemical Co., Irvington, N. J. Lacquer. No. 144,512; July 5; v. 288; p. 197.
Atlantic Paper Company, Philadelphia, Pa. Paper generally used for printing and writing and mailing envelops. No. 145,033; July 26; v. 288; p. 811.
Atlas Chain Co., Ltd., The, Birmingham, England. Drive-chains. No. 145,034; July 26; v. 288; p. 811.
Auerbach, D., & Sons, New York, N. Y. Chocolates. No. 144,692; July 19; v. 288; p. 615.
Auerbach, M. & Sons, New York, N. Y. Men's silk shirts. No. 144,693; July 19; v. 288; p. 615.
Ault & Wiborg Company of N. Y., The, New York, N. Y. Steel-die printing-inks of various tints and colors. No. 145,035; July 26; v. 288; p. 811.
Austin Machinery Corporation, New York, N. Y. Certain machinery. No. 145,246; July 26; v. 288; p. 820.
Badger Manufacturing Corporation, Milwaukee, Wis. Bumpers, creepers, steering-wheels, luggage-carriers, &c. No. 145,036; July 26; v. 288; p. 811.
Bailey, B. F., and Co., New York, N. Y. Bleached, unbleached, dyed, and printed linen piece goods, napkins, scarfs, &c. No. 144,694; July 19; v. 288; p. 615.
Bake-Rite Oven Mfg. Company, Reno, Nev., and San Francisco, Calif. Baking plants. No. 145,037; July 26; v. 288; p. 811.
Bake-Rite Oven Mfg. Company, Reno, Nev., and San Francisco, Calif. Ovens, stoves, ranges, &c. No. 145,038; July 26; v. 288; p. 811.
Baker R & L Company The, Cleveland, Ohio. Axles for vehicles. No. 144,513; July 5; v. 288; p. 198.
Baker R & L Company The, Cleveland, Ohio. Bodies or frames for vehicles. No. 144,514; July 5; v. 288; p. 198.
Baker, Walter, & Company, Ltd., Boston, Mass. Sweet chocolate. No. 144,544; July 12; v. 288; p. 423.
Baltimore Scientific Products Co., Baltimore, Md. Medicine for rheumatism, neuritis, gout, &c. No. 144,340; July 5; v. 288; p. 191.
Banister & Pollard Co., Newark, N. J. Ash, gasolene, garbage, and oil cans, tool boxes and bags, water-pails. No. 145,247; July 26; v. 288; p. 820.
Banister & Pollard Co., Newark, N. J. Certain non-ferrous metals. No. 145,248; July 26; v. 288; p. 820.
Barber Asphalt Paving Company, The, Philadelphia, Pa. Asphaltum. No. 144,545; July 12; v. 288; p. 423.
Barber Asphalt Paving Company, The, Philadelphia, Pa. Waterproof roofing-sheets and shingles. No. 144,695; July 19; v. 288; p. 615.
Barbieri, Peter, Perth Amboy, N. J. Sole-leather. No. 145,039; July 26; v. 288; p. 811.
Barnes, Charles A., Leominster, Mass. Pocket and fine combs, barber's combs, and men's and women's dressing-combs. No. 144,717; July 19; v. 288; p. 616.
Barrett Machine Tool Company, Meadville, Pa. Cylinder boring and facing machines. No. 145,249; July 26; v. 288; p. 820.
Barsyk, Martin, Chicago, Ill. Stomach remedy. No. 144,546; July 12; v. 288; p. 423.
Basso, Salvatore, Chicago, Ill. Salve for hemorrhoids. No. 144,341; July 5; v. 288; p. 191.
Bates & Abbott, Boston, Mass. Evaporated fruits. No. 144,547; July 12; v. 288; p. 423.
Bath-room fixtures and supplies. Golco Sanitary System, Inc. No. 145,101; July 26; v. 288; p. 813.
Bauer, Abraham L., Indianapolis, Ind. Shoe-dressing. No. 144,342; July 5; v. 288; p. 191.
Bayuk Bros. Incorporated, Baltimore, Md., and Philadelphia, Pa. Cigars, cigarettes, tobacco. No. 145,250; July 26; v. 288; p. 820.
Bear Creek Orchards, Medford, Oreg. Fresh deciduous fruits. No. 144,343; July 5; v. 288; p. 191.
Beaver Machine & Tool Co., Inc., Newark, N. J. Electrical appliances. No. 145,040; July 26; v. 288; p. 811.
Bee, Dora, Memphis, Tenn. Toilet face-powder. No. 144,344; July 5; v. 288; p. 191.
Beiser, Edward T., Co., New York, N. Y. Flower-oils suitable for the production of perfumes. No. 144,345; July 5; v. 288; p. 191.
Belding Bros. & Co., New York, N. Y. Silk thread. No. 145,041; July 26; v. 288; p. 811.
Bellevue Specialty Company, Memphis, Tenn. Medicinal and pharmaceutical preparations. No. 144,346; July 5; v. 288; p. 191.
Benjamin Electric Manufacturing Co., Chicago, Ill. Electric plug-clusters having two outlets. No. 144,347; July 5; v. 288; p. 191.
Bennett and Aspden Company, Philadelphia, Pa. Velvets in the piece. No. 145,251; July 26; v. 288; p. 820.
Bennett, G. E., San Francisco, Calif. Metal-polish. No. 144,697; July 19; v. 288; p. 615.
Bennett, Ray H., Lumber Co., Inc., North Tonawanda, N. Y. Knockdown houses. No. 144,515; July 5; v. 288; p. 198.
Benzolene Motor Fuel Co., Chicago, Ill. Motor fuel-oil. No. 144,348; July 5; v. 288; p. 191.
Berger, Harry, New York, N. Y. Men's and boys' shirts. No. 144,698; July 19; v. 288; p. 615.
Bergmann Mfg. Co., Philadelphia, Pa., assignor to Columbia Steel Equipment Co. Filing-cabinets. No. 145,252; July 26; v. 288; p. 820.
Bernard, Pierre J. H., Montreal, Quebec, Canada. Electrical hot-water and steam heaters and parts therefor. No. 144,699; July 19; v. 288; p. 615.
Bernhard Ulmann Co. Inc., New York, N. Y. Art-needlework products comprising a foundation fabric. No. 145,195; July 26; v. 288; p. 816.
Bernhard Ulmann Co. Inc., New York, N. Y. Instruction-books, and similar publications. No. 145,196; July 26; v. 288; p. 816.
Bernet, Craft & Kauffman Milling Co., St. Louis, Mo. Wheat-flour. No. 144,548; July 12; v. 288; p. 423.
Bernstamm, Jacques, Atlanta, Ga. Peanut-butter. No. 144,700; July 19; v. 288; p. 615.
Berthiaume, J., & Co., Spencer, Mass. Ginger-ale and bercola, a non-alcoholic cola beverage. No. 144,701; July 19; v. 288; p. 615.
Bessemer Gas Engine Company, The, Grove City, Pa. Internal-combustion engines, oil-well pumping-powers, and fluid-compressors. No. 145,042; July 26; v. 288; p. 811.
Bianchini, Férier, Lyon, France. Piece goods of silk, wool, linen, cotton, and china-grass. No. 144,702; July 19; v. 288; p. 615.
Bigg, Thomas, Limited, London, England. Preparation for destroying parasites and for treating diseases in animals and plants. No. 144,703; July 19; v. 288; p. 615.
Bills, Enoch F., Bordentown, N. J. Cranberry jelly. No. 144,549; July 12; v. 288; p. 423.
Bissell, Irving J., Grand Rapids, Mich. Stylographic pencils and fountain-pens. No. 144,349; July 5; v. 288; p. 191.
Blackstaff Flax Spinning & Weaving Co. Ltd., The, Belfast, Ireland. Threads of flax, hemp, &c. No. 144,350; July 5; v. 288; p. 191.
Blackstaff Flax Spinning & Weaving Company, Limited, The, Belfast, Ireland. Threads of flax, hemp, tow, and ramie or china-grass. No. 145,043; July 26; v. 288; p. 811.
Blake, Mrs. Elizabeth V. W., Wilmington, Del. Hair tonic, grower, and gloss, scalp-balm, face-cream, talcum powder, skin-balm. No. 145,044; July 26; v. 288; p. 811.
Blamberg Brothers, Inc., Baltimore, Md. Poultry, pigeon, and stock feed. No. 144,654; July 12; v. 288; p. 427.
Bloom, Charles, Inc., New York, N. Y. Dolls and doll-dress outfits. No. 144,550; July 12; v. 288; p. 423.
Bloom and Horner, New York, N. Y. Men's summer clothing. No. 144,351; July 5; v. 288; p. 191.
Blue Bird Manufacturing Company, St. Louis, Mo., assignor to Davis Sewing Machine Company, Dayton, Ohio. Electric suction-cleaners, sadirons, fans, &c. No. 144,551; July 12; v. 288; p. 423.
Bon I. Look Stores Company The, Denver, Colo. Canned fruits, vegetables, fish, &c. No. 144,429; July 5; v. 288; p. 194.
Borden Company, The, New York, N. Y. Confectionery—namely, chocolate coatings. No. 144,352; July 5; v. 288; p. 191.
Borgfeldt, George, & Co., New York, N. Y. Felt bootees and slippers. No. 144,704; July 19; v. 288; p. 615.
Borgfeldt, George, & Co., New York, N. Y. Hosiery. No. 145,045; July 26; v. 288; p. 811.
Bourn Rubber Co., Providence, R. I. Rubber boots and shoes. No. 144,989; July 19; v. 288; p. 626.

Bowman, Walter M., Cincinnati, Ohio. Medicinal salve for the treatment of piles. No. 144,552; July 12; v. 288; p. 423.

Bowne, Emma R., San Francisco, Calif. Laundry and cleaning powder. No. 144,358; July 5; v. 288; p. 191.

Boyd, John S., Company, Inc., Williamstown, Mass. Cotton pile cloth in the piece. No. 144,705; July 19; v. 288; p. 616.

Braender Rubber & Tire Co., Rutherford, N. J. Tires, tubes, outer casings. No. 145,046; July 26; v. 288; p. 811.

Braid, William, & Company, Vancouver, British Columbia, Canada. Tea. No. 144,353; July 5; v. 288; p. 191.

Brainerd & Armstrong Company, The, New London, Conn. Fabrics in the piece. No. 145,047; July 26; v. 288; p. 811.

Bramlette, Ruth M., Indianapolis, Ind. Pharmaceutical preparations. No. 144,988; July 19; v. 288; p. 625.

Brandt, Jos., & Bro., New York, N. Y. Mit made of fabric or strands of flexible material and metal used for cleaning and scraping. No. 144,706; July 19; v. 288; p. 616.

Brauer Bros. Shoe Company, St. Louis, Mo. Shoes of leather, cloth, or canvas. No. 144,707; July 19; v. 288; p. 616.

Bre Manufacturing Company, Boston, Mass. Bath-room fittings. No. 144,354; July 5; v. 288; p. 191.

Breyer Ice Cream Company, Philadelphia, Pa. Ice-cream. No. 144,355; July 5; v. 288; p. 191.

Breyer Ice Cream Company, Philadelphia, Pa. Ice-cream. No. 144,708; July 19; v. 288; p. 616.

Bridgeport Coach Lace Co., The, Bridgeport, Conn. Coach and furniture fabric piece goods. No. 145,048; July 26; v. 288; p. 811.

Bronston Bros. & Co. Inc., New York, N. Y. Skins and hides. No. 145,049; July 26; v. 288; p. 812.

Brown & Bigelow, St. Paul, Minn. Magazine-pencils. No. 144,356; July 5; v. 288; p. 191.

Brown, L. L., Paper Company, Adams, Mass. Writing paper. No. 144,357; July 5; v. 288; p. 191.

Brown Shoe Company, Inc., St. Louis, Mo. Shoes for men, made of leather, rubber, fabric, and combinations of the same. No. 145,050; July 26; v. 288; p. 812.

Brownall, Philip C., *et al.*, executors. (See Williams, Frank B.)

Brubaker, W. L., & Bros., Millersburg, Pa. Machines for boring automobile and locomotive cylinders. No. 145,253; July 26; v. 288; p. 821.

Bruner Woolen Company, Inc., The, New York, N. Y. Woolen piece goods and woolen cloths. No. 144,709; July 19; v. 288; p. 616.

Bryant, Cullen, Portland, Oreg. Canned fruits. No. 144,553; July 12; v. 288; p. 423.

Bryce Manufacturing Company, The, Forestville, Conn. Steel balls for bearings. No. 145,254; July 26; v. 288; p. 821.

Buckeye Cotton Oil Company, The, Cincinnati, Ohio. Horse and mule feed. No. 145,051; July 26; v. 288; p. 812.

Buffington's Incorporated, Worcester, Mass. Medicinal preparations. No. 144,359; July 5; v. 288; p. 191.

Bulubasis, Chriss, Toledo, Ohio. Medicine for stomach troubles and for stones in the kidney. No. 144,360; July 5; v. 288; p. 191.

Buresch, Louis A., Chicago, Ill. Croup-salve, laxative pills, cough medicine, &c. No. 144,554; July 12; v. 288; p. 423.

Burnett-Larsh Manufacturing Company, The, Dayton, Ohio. Electric motors, switches, cut-outs, &c. No. 144,710; July 19; v. 288; p. 616.

Butler, J. W., Paper Company, Chicago, Ill. Paper for poster and label work. No. 145,052; July 26; v. 288; p. 812.

Butler, J. W., Paper Company, Chicago, Ill. Writing-paper. No. 145,053; July 26; v. 288; p. 812.

Butler, J. W., Paper Company, Chicago, Ill. Mailing or correspondence envelops. No. 145,054; July 26; v. 288; p. 812.

Butler, J. W., Paper Company, Chicago, Ill. Bristol-board. No. 145,055; July 26; v. 288; p. 812.

Buxton & Skinner Printing and Stationery Company, St. Louis, Mo. Paper and stationery. No. 144,361; July 5; v. 288; p. 192.

Buyers Export Agency, Inc., New York, N. Y. Flavors of various kinds for making non-alcoholic beverages. No. 145,056; July 26; v. 288; p. 812.

Caldwell Importing Co., The, Minneapolis, Minn. Coffee. No. 144,991; July 19; v. 288; p. 626.

California Central Creameries, San Francisco, Calif. Eggs. No. 144,655; July 12; v. 288; p. 427.

California Chocolate Shops, Inc., Los Angeles, Calif. Candy. No. 144,711; July 19; v. 288; p. 616.

California Growers Association, Inc., Los Angeles, Calif. Canned fruits and vegetables. No. 144,555; July 12; v. 288; p. 423.

Canen, Mary B., Detroit, Mich. Market-baskets on wheels. No. 144,712; July 19; v. 288; p. 616.

Caravel Company, Inc., New York, N. Y. Hand sewing-needles, toilet-pins, shoe-buckles, &c. No. 145,057; July 26; v. 288; p. 812.

Carew Manufacturing Company, South Hadley Falls, Mass. Paper for general printing and writing purposes and mailing-envelops. Nos. 145,058–9; July 26; v. 288; p. 812.

Carlsbergh, J. B., Seattle, Wash. Liniment for eczema. No. 144,556; July 12; v. 288; p. 423.

Carlton Trading Company, New York, N. Y. Hosiery. No. 144,713; July 19; v. 288; p. 616.

Carr, J. B., Biscuit Co., Wilkes-Barre, Pa. Soda biscuits and crackers. No. 144,517; July 5; v. 288; p. 198.

Carson Pirie Scott & Co., Chicago, Ill. Ladies' knitted underwear. No. 144,362; July 5; v. 288; p. 192.

Cartier, Inc., New York, N. Y. Jewelry, tableware, &c. No. 144,363; July 5; v. 288; p. 192.

Case, Francis L., Rapid City, S. D. Liniment for rheumatism, neuralgia, &c. No. 144,557; July 12; v. 288; p. 423.

Case Provision and Supply Co., Trenton, N. J. Pork, particularly bacon or strips of pork in bags. No. 144,714; July 19; v. 288; p. 616.

Cassebeer, H. A., Inc., New York, N. Y. Hair-tonic. No. 144,558; July 12; v. 288; p. 423.

Cattell, J. McKeen, Garrison, N. Y. Periodicals published weekly and at other intervals. No. 145,275; July 26; v. 288; p. 823.

Cellokay Manufacturing Company, New York, N. Y. Indicators for showing state of charge of storage batteries. No. 144,715; July 19; v. 288; p. 616.

Central Ohio Paper Company, The, Columbus, Ohio. Paper. No. 144,364; July 5; v. 288; p. 192.

Champion Motors Corporation, Philadelphia, Pa. Automobiles. No. 144,716; July 19; p. 288; p. 616.

Charter Chocolate Company, Boston, Mass. Candy. No. 144,718; July 19; v. 288; p. 616.

Chemical Works Flora, Dubendorf, Switzerland. Concentrated artificial fruit-oils. No. 144,365; July 5; v. 288; p. 192.

Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece, in whole or part silk. No. 144,366; July 5; v. 288; p. 192.

Cheshire Kitchens, Inc., Dover, Del., and New York, N. Y. Dehydrated Welsh rabbit. No. 144,823; July 19; v. 288; p. 619.

Chester Kent & Co., Inc., Boston, Mass. General tonic. No. 144,591; July 12; v. 288; p. 424.

Chicago Athletic Association, Chicago, Ill. Monthly publications—The Cherry Circle. No. 144,719; July 19; v. 288; p. 616.

Chicago Mica Co., Valparaiso, Ind. Electrical appliances. No. 145,060; July 26; v. 288; p. 812.

Chipman Knitting Mills, Easton, Pa. Hosiery. No. 144,720; July 19; v. 288; p. 616.

Chippewa Springs Corporation, Minneapolis, Minn. Natural spring-water and its products. No. 144,721; July 19; v. 288; p. 616.

Chippewa Springs Corporation, Minneapolis, Minn. Beverage. No. 144,722; July 19; v. 288; p. 616.

Christensen, John E., Chicago, Ill. Phonograph. No. No. 144,367; July 5; v. 288; p. 192.

Citizens Wholesale Supply Company, The, Columbus, Ohio. Black and red inks. No. 145,061; July 26; v. 288; p. 812.

Clark, Abner C., Worcester, Mass. Ointment or massage cream. No. 144,368; July 5; v. 288; p. 192.

Clark, W. N., Co., Rochester, N. Y. Canned fruits and vegetables. No. 144,736; July 19; v. 288; p. 616.

Clayton-Wright Ltd., Birmingham, England. View-mirrors and windshields for use with cycles and motor-vehicles. No. 145,209; July 26; v. 288; p. 816.

Cleaver Manufacturing Company, Pendleton, Oreg. Coal-tar paint for roofs, &c. No. 144,369; July 5; v. 288; p. 192.

Climax Molybdenum Company, Wilmington, Del., and New York, N. Y. Ferromolybdenum. No. 144,870; July 5; v. 288; p. 192.

Cohen, Endel & Co., New York, N. Y. Boys' suits. No. 144,725; July 19; v. 288; p. 616.

Cole, James H., Knoxville, Tenn. Salve for congestion and inflammation, &c. No. 144,559; July 12; v. 288; p. 423.

Cole, William A., Paper Company, Putney, Vt. Toilet-paper. No. 144,723; July 19; v. 288; p. 616.

Colgate & Co., Jersey City, N. J., and New York, N. Y. Hair-tonics. No. 144,990; July 19; v. 288; p. 626.

Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 144,724; July 19; v. 288; p. 616.

Collins, A. M., Manufacturing Company, Philadelphia, Pa. Publications issued monthly. No. 144,726; July 19; v. 288; p. 616.

Collins Company, The, Collinsville, Conn. Hand-tools. No. 145,062; July 26; v. 288; p. 812.

Collins, George W., Wilmington, Del. Tire-repair composition. No. 144,727; July 19; v. 288; p. 616.

Colorado Milling & Elevator Company, The, Denver, Colo., and Burley, Idaho. Self-rising wheat-flour. No. 145,063; July 26; v. 288; p. 812.

Columbia Graphophone Company, New York, N. Y. Furniture-polish. No. 144,729; July 19; v. 288; p. 616.

Columbia Graphophone Manufacturing Co., Bridgeport, Conn. Phonographic sound recording and reproducing mechanism, &c. No. 144,560; July 12; v. 288; p. 423.

Columbian Rope Co., Auburn, N. Y. Rope, twine, and cordage of vegetable fiber. No. 144,518; July 5; v. 288; p. 198.

Columbus Polish Mfg. Co., Inc., New York, N. Y. Shoe-polishes. No. 144,728; July 19; v. 288; p. 616.

Commercial Union of America, Incorporated, New York, N. Y. Wheat-flour. No. 144,732; July 19; v. 288; p. 616.

Commonwealth Coffee Company, New York, N. Y. Coffee. No. 144,733; July 19; v. 288; p. 616.

Conklin, Horace E., Binghamton, N. Y. Timothy-seed. No. 145,064; July 26; v. 288; p. 812.

Conley Foil Company, The, New York, N. Y. Metallic sheets for making molds or matrices. No. 144,734; July 19; v. 288; p. 616.

Conrad Chemical Co., Chicago, Ill. Dye in soap form. No. 144,519; July 5; v. 288; p. 198.

Cook, J. J., Chemical Co., Milwaukee, Wis. Preparation for preventing misting of windows and windshields. No. 145,255; July 26; v. 288; p. 821.

Cornwell, G. G., & Son, Inc., Washington, D. C. Coffee. No. 144,371; July 5; v. 288; p. 192.

Cosmos Engineering Company Limited, Bristol, England. Internal-combustion engines for aeroplanes, motor-cars, and motorcycles. Nos. 144,372–3; July 5; v. 288; p. 192.

Coulter Dry Goods Company, Los Angeles, Calif. Leather gloves for men and women. No. 144,992; July 19; v. 288; p. 626.

Council, James R., Norfolk, Va. Root-beer and ginger-ale. No. 144,735; July 19; v. 288; p. 616.

Cox, Albert J., Company, Chicago, Ill. Electric insulating supplies. No. 144,374; July 5; v. 288; p. 192.

Cox Medicine Company, Omega, Ga. Liver and stomach medicine. No. 144,375; July 5; v. 288; p. 192.

Creese & Cook Co., Danvers, Mass. Calf-leather. No. 145,065; July 26; v. 288; p. 812.

Crew Levick Company, Philadelphia, Pa. Lubricating oils and greases. No. 144,520; July 5; v. 288; p. 198.

Crocker-Wheeler Company, Ampere, N. J. Electric motors and generators, starters for motors. No. 144,656; July 12; v. 288; p. 427.

Crown Chemical Company, The, Indianapolis, Ind. Certain toilet preparations. No. 144,561; July 12; v. 288; p. 423.

Crown Margarin Company, St. Louis, Mo. Oleomargarin. No. 145,066; July 26; v. 288; p. 812.

Crucible Steel Company of America, Pittsburgh, Pa. Steel bars, rods, billets, blooms, sheets, &c. No. 145,067; July 26; v. 288; p. 812.

Cupples Company, Manufacturerers, St. Louis, Mo. Rubber tires and tubes. No. 144,521; July 5; v. 288; p. 198.

Daley, Eugene J., Jr., San Francisco, Calif. War game. No. 144,376; July 5; v. 288; p. 192.

Dally, Charles T., West Orange, N. J. Chemical carbon-removing compound for the cylinders of internal-combustion engines. No. 144,377; July 5; v. 288; p. 192.

Danciger Brothers, Kansas City, Mo. Non-intoxicating, non-cereal, maltless beverage. No. 144,737; July 19; v. 288; p. 616.

Danville, Alexander, Chicago, Ill. Gas-engine-fuel improver. No. 144,378; July 5; v. 288; p. 192.

Dart, E. M., Mfg. Co., Providence, R. I. Metal pipe-fittings. No. 145,068; July 26; v. 288; p. 812.

Davenport Cabinet Works, Davenport, Iowa. Phonographs. No. 144,379; July 5; v. 288; p. 192.

Davis, H. E., Co., Freeport, Me. Leather shoes. No. 145,069; July 26; v. 288; p. 812.

Davis, W. A., Corp., New York, N. Y. Wool and fiber carpets and rugs. No. 145,070; July 26; v. 288; p. 812.

De Bevoise Co., Charles R., Newark, N. J. Broad silks, satins, cotton, and linen piece goods. No. 144,738; July 19; v. 288; p. 616.

De Bevoise Co., Charles R., Newark, N. J. Corsets, corset-covers, brassières, and waists. No. 144,739; July 19; v. 288; p. 617.

De Groote, Melvin, Pittsburgh, Pa. Soluble compound-vanilla concentrate for food purposes. No. 145,071; July 26; v. 288; p. 812.

Deming Company, The, Salem, Ohio. Grease-guns. No. 145,302; July 26; v. 288; p. 817.

Denman-Myers Cord Tire Company, Cleveland, Ohio. Rubber tires. No. 144,740; July 19; v. 288; p. 617.

Denzer & Nathan Inc., New York, N. Y. Cotton piece goods. No. 145,256; July 26; v. 288; p. 821.

Detroit Automatic Scale Company, Detroit, Mich., assignor to The Computing Scale Company, Dayton, Ohio. Weighing-scales. No. 145,257; July 26; v. 288; p. 821.

Dewes, A., Company, The, New York, N. Y. Electrical appliances. No. 144,380; July 5; v. 288; p. 192.

Dexter Yarn Company, Pawtucket, R. I. Yarns and threads. No. 145,072; July 26; v. 288; p. 812.

Dille & McGuire Mfg. Co., Richmond, Ind. Lawn-mowers. Nos. 145,258–63; July 26; v. 288; pp. 821–2.

Dilling & Company, Indianapolis, Ind. Candy—namely, chocolate bars. No. 144,741; July 19; v. 288; p. 617.

Dilling & Company, Indianapolis, Ind. Chocolate candy. No. 144,742; July 19; v. 288; p. 617.

Dilling & Company, Indianapolis, Ind. Chocolate bars. No. 144,743; July 19; v. 288; p. 617.

Dilling & Company, Indianapolis, Ind. Candy. No. 144,744; July 19; v. 288; p. 617.

Dilling & Company, Indianapolis, Ind. Chocolate bars. No. 144,745; July 19; v. 288; p. 617.

Dino Electric Appliance Corporation, New York, N. Y. Electric flash-lamps. No. 144,750; July 19; v. 288; p. 617.

Direct News Service, San Francisco, Calif. Publication published daily. No. 145,073; July 26; v. 288; p. 812.

Dixie Ice Cream Company, Lexington, Ky. Ice-cream. No. 144,746; July 19; v. 288; p. 617.

Dodge Brothers, Detroit, Mich. Motor-vehicles and parts thereof. No. 144,522; July 5; v. 288; p. 198.

Dodge Sales & Engineering Co., Mishawaka, Ind. Steel pulleys. No. 145,074; July 26; v. 288; p. 812.

Doss Rubber & Tube Co., The, Inc., Atlanta, Ga. Rubber tires. Nos. 144,993–5; July 19; v. 288; p. 626.

Dow Chemical Company, The, Midland, Mich. Light metal alloys and castings and forgings. No. 144,747; July 19; v. 288; p. 617.

Draper, Thomas B., Detroit, Mich. Quilts, sheets, and pillow-cases. No. 144,748; July 19; v. 288; p. 617.

Dreyfus, L. A., Co., New York, N. Y. Gum used in the manufacture of chewing-gum. No. 144,749; July 19; v. 288; p. 617.

Dreyfus, L. A., Co., New York, N. Y. Gum used in the manufacture of chewing-gum. No. 145,075; July 26; v. 288; p. 812.

Drucker & Lindy, Irvington, N. J. Fresh eggs. No. 145,076; July 26; v. 288; p. 812.

Dry Milk Company, The, New York, N. Y. Casein food product. No. 145,077; July 26; v. 288; p. 812.

Du Bois, H. W., & Co., New York, N. Y., and Boston, Mass. Typewriter-ribbons and carbon-paper. No. 145,078; July 26; v. 288; p. 812.

Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. Nos. 145,079–80; July 26; v. 288; p. 812.

Duralectric Corporation, The, Jamestown, N. Y. Electric heating devices, particularly cigar-lighters and water-heaters. No. 144,562; July 12; v. 288; p. 423.

Eagle Brass Foundry Company, Seattle, Wash. Plumbing and steam-fitting supplies. No. 145,081; July 26; v. 288; p. 812.

Eagle Brass Foundry Company, Seattle, Wash. Ingots, bars, and cylinders, and castings for machinery. No. 145,082; July 26; v. 288; p. 813.

Early-Stratton Co., Memphis, Tenn. Coffee. No. 145,083; July 26; v. 288; p. 813.

East, Frank A., Boston, Mass. General tonic. No. 144,381; July 5; v. 288; p. 192.

Easterbrook Allcard & Co. Limited, Sheffield, England. Tools for hand and machine use. No. 144,382; July 5; v. 288; p. 192.

Eberly, Isaac C., Reading, Pa. Hosiery of cotton and silk for men and ladies. No. 144,751; July 19; v. 288; p. 617.

Economic Materials Co., Chicago, Ill. Yeast. No. 144,752; July 19; v. 288; p. 617.

Edelstone, William W., Cambridge, Mass. Tire fabric, canvas, duck, &c. No. 145,084; July 26; v. 288; p. 813.

Edison Portland Cement Company, The, West Orange and New Village, N. J., and New York, N. Y. Portland cement. No. 144,384; July 5; v. 288; p. 192.

Edison, Thomas A., West Orange, N. J. Phonograph-records. No. 144,383; July 5; v. 288; p. 192.

Edoscope Mfg. Co., Plainfield, N. J. Stereopticons. No. 144,563; July 12; v. 288; p. 423.

Edwin M. Knowles China Co., The, East Liverpool, Ohio. China and porcelain ware. No. 144,595; July 12; v. 288; p. 424.

Electric Arc Cutting and Welding Company, Newark, N. J. Metal-welding electrodes. No. 145,086; July 26; v. 288; p. 813.

Electric Heat Unit Co., St. Louis, Mo. Electric heating apparatus for heating fluids. No. 144,755; July 19; v. 288; p. 617.

Electric Tachometer Corporation, The, Philadelphia, Pa. Electric tachometers and meters. No. 144,565; July 12; v. 288; p. 423.

Electrical Alloy Company, The, Morristown, N. J. Resistance wires and ribbons. No. 144,564; July 12; v. 288; p. 423.

Eldridge Chemical Company, The, Canton, Ohio. Cleaning and scouring powder. No. 145,085; July 26; v. 288; p. 813.

Elias, Percy I., New York, N. Y. Electric-lighting fixtures. No. 144,566; July 12; v. 288; p. 423.

Elliott Commission Company, Decatur, Ill. Fresh fruits and vegetables packed in crates. No. 145,087; July 26; v. 288; p. 813.

Elliott-Fisher Company, Harrisburg, Pa. Typewriting-machines, combined writing-adding machines, and platens. No. 145,088; July 26; v. 288; p. 813.

Elmberg, E. F., Company, Parkersburg, Iowa. Concrete-mixers, feed-grinders, saw-frames, &c. No. 145,089; July 26; v. 288; p. 813.

Elmore, Walter D., Pittsburgh, Pa. Antifriction metals. No. 144,996; July 19; v. 288; p. 627.

Emerson Carey Fibre Products Company, The, Hutchinson, Kans. Wall-board and building-paper. No. 145,090; July 26; v. 288; p. 813.

Emmons, Mary E., New York, N. Y. Eggs. No. 144,567; July 12; v. 288; p. 423.

Endless Belt Corporation, Inc., New York, N. Y. Linen, cotton, &c., endless belts. No. 144,385; July 5; v. 288; p. 192.

Endless Belt Corporation, Inc., New York, N. Y. Linen, cotton, and other fabric belts. No. 144,386; July 5; v. 288; p. 192.

Ernst, J. M., & Son, Arcola and East St. Louis, Ill. Scratch feed. No. 145,091; July 26; v. 288; p. 813.

Esko Products Company, Phillipsburg, N. J. Medicinal preparation. No. 144,387; July 5; v. 288; p. 192.

Essantee Company, St. Louis, Mo. Non-alcoholic maltless beverage and maltless syrups, &c. No. 144,756; July 19; v. 288; p. 617.
Estate Stove Company, The, Hamilton, Ohio. Gas heating apparatus. No. 145,092; July 26; v. 288; p. 813.
Everlasting Valve Company, Jersey City, N. J. Valves. No. 145,264; July 26; v. 288; p. 822.
Evinrude Motor Company, Milwaukee, Wis. Oil-engines. No. 144,388; July 5; v. 288; p. 192.
Excell Laboratories, The, Chicago, Ill. Liquid fertilizer. No. 144,657; July 12; v. 288; p. 427.
Excello Manufacturing Company, The, Cleveland, Ohio. Boiler-setting cement and glass-setting cement or cement putty. No. 145,093; July 26; v. 288; p. 813.
Fahrney, Dr. Peter, & Sons Co., Chicago, Ill. Medicinal tonic. No. 144,568; July 12; v. 288; p. 423.
Fairbanks Co., The, New York, N. Y. Electric drills, grinders, magnet-chucks, &c. No. 144,569; July 12; v. 288; p. 423.
Falcon Manufacturing Co., Brooklyn, N. Y. Shoe-dressing, cream, and polishing-paste. No. 144,757; July 19; v. 288; p. 617.
Farber, Simon W., Brooklyn, N. Y. Portable electric lamps. No. 144,758; July 19; v. 288; p. 617.
Federal Adding Machine Corporation, New York, N. Y. Typewriters. No. 145,265; July 26; v. 288; p. 822.
Fentress-Newton Mfg. Co., Detroit, Mich. Motorcycle accessories. No. 144,570; July 12; v. 288; p. 423.
Fertile Chemical Co., The, Cleveland, Ohio. Fertilizers. No. 144,389; July 5; v. 288; p. 192.
Fidelity National Bank & Trust Co., Kansas City, Mo. Magazine published monthly. No. 144,760; July 19; v. 288; p. 617.
Fi-Er-Kil Company, San Francisco, Calif. Fire-extinguishing compound. No. 144,390; July 5; v. 288; p. 192.
Firestone Tire and Rubber Company, The, Akron, Ohio. Resilient tires and inner tubes. No. 144,391; July 5; v. 288; p. 192.
Fischman, Wm., Inc., New York, N. Y. Periodically-issued booklets. No. 144,761; July 19; v. 288; p. 617.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 144,765; July 19; v. 288; p. 617.
Fisher, Louis M., Clarksdale, Mo. Automatic automobile-jacks. No. 144,392; July 5; v. 288; p. 192.
Fitzpatrick Bros., Chicago, Ill. Soap and soap flakes. No. 144,571; July 12; v. 288; p. 424.
Fitzpatrick Bros., Chicago, Ill. Soap flakes, soap chips, and soap. No. 144,762; July 19; v. 288; p. 617.
Flanders, A. H., Company, Chicago, Ill. Ladies' wearing-apparel. No. 144,763; July 19; v. 288; p. 617.
Florsheim Shoe Company, The, Chicago, Ill. Boots and shoes made of leather. No. 144,764; July 19; v. 288; p. 617.
Ford Motor Company, Highland Park, Mich. Periodical house organ published semimonthly. No. 144,766; July 19; v. 288; p. 617.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 144,767; July 19; v. 288; p. 617.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 144,769–70; July 19; v. 288; pp. 617–8.
Forstner Chain Corporation, Irvington, N. J. Chains for personal adornment. Nos. 144,393–4; July 5; v. 288; p. 193.
Forstner Chain Corporation, Irvington, N. J. Chains for personal adornment. No. 144,768; July 19; v. 288; p. 617.
Franklin, Aleathia D., Daytona, Fla. Pharmaceutical preparations. No. 144,395; July 5; v. 288; p. 193.
Franklin MacVeagh & Company, Chicago, Ill. Wheat breakfast food and food ingredient. No. 145,137; July 26; v. 288; p. 814.
Freeman, Sidney J., & Sons, New York, N. Y. Cigars, cigarettes, smoking, chewing, and scrap tobacco. No. 144,396; July 5; v. 288; p. 193.
French American Import Co., Boston, Mass. Hand-made lace pieces. No. 145,094; July 26; v. 288; p. 813.
Friedrich-Friedrich Chemical Company, Philadelphia, Pa. Medicinal preparations. No. 144,572; July 12; v. 288; p. 424.
Funk & Wagnalls Company, New York, N. Y. Phonograph-records. No. 144,397; July 5; v. 288; p. 193.
Furniture-polish. Columbia Graphophone Company. No. 144,730; July 19; v. 288; p. 616.
Gabilla, Henriette, Paris, France. Soaps. Nos. 145,095–6; July 26; v. 288; p. 813.
Galassi, P., Corporation, Boston, Mass. Sockets and metallic strips used in laying composition and plastic floors and walls. No. 145,097; July 26; v. 288; p. 813.
Gardiner-McInnes Co., Inc., New York, N. Y. Outside paints for houses, barns, and other structures. No. 144,523; July 5; v. 288; p. 199.
Gebrüder Junghans, A.-G., Schramberg, Germany. Luminous paints containing radioactive substances. Nos. 144,398–9; July 5; v. 288; p. 193.
Georgia Marble Company, The, Tate, Ga. Finished marble and cut stone. Nos. 144,771–2; July 19; v. 288; p. 618.
Germ-A-Lone Manufacturing Company, Los Angeles, Calif. Germicides, insecticides, and disinfectants. No. 144,573; July 12; v. 288; p. 424.
Gelatoid Corporation, New York, N. Y. Translucent gelatinous sheets. No. 145,098; July 26; v. 288; p. 813.
Gibson, Geo. R., Co., New York, N. Y. Toothbrushes. Nos. 144,773–4; July 19; v. 288; p. 618.
Gilbert Paper Company, Menasha, Wis. Ledger and writing paper. No. 145,099; July 26; v. 288; p. 813.
Globe Cleansing Products Corporation, Paterson, N. J. Powder compound soluble in water, in itself non-saponaceous, used as a general cleanser. No. 144,775; July 19; v. 288; p. 618.
Globe Cotton Oil Mills, Los Angeles, Calif. Vegetable compound for shortening and cooking purposes. No. 144,776; July 19; v. 288; p. 618.
Globe Grain & Milling Co., Los Angeles, Calif. Certain foods. No. 145,100; July 26; v. 288; p. 813.
Glover Company, The, Los Angeles, Calif. Preparation for the scalp. No. 144,574; July 12; v. 288; p. 424.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Hardening liquid for treating concrete floors. No. 144,400; July 5; v. 288, p. 193.
Goheen Corporation, The, Wilmington, Del., and Warren, Ohio. Dry, paste, and ready-mixed paints for general use. No. 144,777; July 19; v. 288; p. 618.
Gold Cross Coffee Company, Cleveland, Ohio. Coffee. No. 144,778; July 19; v. 288; p. 618.
Golden Grain Juice Co., Minneapolis, Minn. Root-beer. No. 144,779; July 19; v. 288; p. 618.
Goldsmith, George P., San Francisco, Calif. Cement for filling fissures in metals. No. 144,524; July 5; v. 288; p. 199.
Goldstein, Milton M., Minneapolis, Minn. Liquid cleaning compound for enameled woodwork, furniture, &c. No. 144,780; July 19; v. 288; p. 618.
Golco Sanitary System, Inc., Philadelphia, Pa. Bath-room fixtures and supplies. No. 139,396; July 26; v. 288; p. 813.
Goodrich, B. F., Company, The, New York, N. Y. Valves, belting, hose, packings, &c. No. 144,401; July 5; v. 288; p. 193.
Goodrich, B. F., Company, The, New York, N. Y. Pump-valves made wholly or partly of rubber. No. 144,402; July 5; v. 288; p. 193.
Goodrich, B. F., Company, The, New York, N. Y. Boots and shoes made wholly or partly of rubber. No. 144,525; July 5; v. 288; p. 199.
Goodrich, B. F., Company, The, New York, N. Y. Battery-jars made of hard or semihard rubber. No. 144,575; July 12; v. 288; p. 424.
Goodrich, B. F., Company, The, New York, N. Y. Hose made of rubber reinforced with fabric. Nos. 144,781–2; July 19; v. 288; p. 618.
Goodrich, B. F., Company, The, New York, N. Y. Stationers' rubber bands. No. 145,102; July 26; v. 288; p. 813.
Gordon, Martin, New York, N. Y. Men's and young men's outer clothes—viz., trousers, vests, &c. No. 144,783; July 19; v. 288; p. 618.
Gorton-Pew Fisheries Company, Gloucester, Mass. Fresh and cured fish. No. 144,784; July 19; v. 288; p. 618.
Gouaux, Cecile C., Houma, La. Preparation for use in the treatment of asthma. No. 144,403; July 5; v. 288; p. 193.
Graff Furnace Co., The, New York, N. Y. Warm-air, coal, wood, gas, and oil furnaces and cooking-ranges. Nos. 144,907–8; July 19; v. 288; p. 627.
Grain Soaps Corporation, Dover, Del., and Jersey City, N. J. Soaps and soap powders. No. 145,103; July 26; v. 288; p. 813.
Grand Union Tea Co., Brooklyn, N. Y. Furniture-polish. No. 144,404; July 5; v. 288; p. 193.
Grape Oil Products Corporation, New York, N. Y. Grape-juice. No. 144,785; July 19; v. 288; p. 618.
Gray & Davis Inc., Cambridge, Mass. Electrical apparatus. No. 144,526; July 5, v. 288; p. 199.
Gray-Juergens Co., Cincinnati, Ohio. Non-alcoholic cordials. No. 144,786; July 19; v. 288; p. 618.
Great Western Milling Company, Los Angeles, Calif. Flours, meal, health-bran, feeds. No. 145,266; July 26; v. 288; p. 822.
Greenfield's, E., Sons, New York and Brooklyn, N. Y. Candies. No. 144,658; July 12; v. 288; p. 427.
Gregory-Craun Motor Co., Kansas City, Mo. Automobiles and motor-trucks. No. 144,405; July 5; v. 288; p. 193.
Greyhound Motors Corporation, New York, N. Y. Automobile bodies and frames. No. 145,104; July 26; v. 288; p. 813.
Griffin Mfg. Co., The, Boston, Mass. Spark-plugs. No. 144,787; July 19; v. 288; p. 618.
Griffith, John H., Marietta, Ga. Liniment hair-tonic, and pile-ointment. No. 144,406; July 5; v. 288; p. 193.
Griswold Mfg. Co., Erie, Pa. Roasting-pots. No. 145,267; July 26; v. 288; p. 822.
Grossman, I., & Son, New York, N. Y. Ladies', misses', and juniors' suits and outer coats, dresses, &c. No. 144,788; July 19; v. 288; p. 618.
Groves, Dr. M. F., Son & Co., Philadelphia, Pa. Medicinal treatment for drunkenness. No. 144,407; July 5; v. 288; p. 193.
Groves, Dr. M. F., Son & Co., Philadelphia, Pa. Medicinal treatment for infantile troubles—viz., teething and colic. No. 144,408; July 5; v. 288; p. 193.
Gsell, Roland A., New York, N. Y. Watches and watch-movements. No. 144,409; July 5; v. 288; p. 193.
Gudeman, Leo, New York, N. Y. Metal dishes for disseminating vapors for purifying the air in rooms. No. 144,789; July 19; v. 288; p. 618.

Guggenheim, M., Inc., New York, N. Y. Imitation pearls. No. 144,790; July 19; v. 288; p. 618.
Gulbransen-Dickinson Company, Chicago, Ill. Player-pianos. Nos. 144,576–7; July 12; v. 288; p. 424.
Gutter, B., & Sons, New York, N. Y. Watches, watch-cases, and watch-movements. No. 144,791; July 19; v. 288; p. 618.
Gutter, Sigsbie, New York, N. Y. Pearls. No. 144,792; July 19; v. 288; p. 618.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, woolen, linen, &c., piece goods. No. 145,105; July 26; v. 288; p. 813.
Halcomb & Davidson, Inc., New York, N. Y. Hollow and solid steel bars for drills. No. 145,106; July 26; v. 288; p. 813.
Hall, Hartwell & Co., Troy, N. Y. Articles of clothing. Nos. 144,410–11; July 5; v. 288; p. 193.
Hall Lithographing Co., The, Topeka, Kans. Stationery. No. 144,999; July 19; v. 288; p. 627.
Halstead Specialties Company, San Francisco, Calif. Rust-solvent and lubricant. No. 144,793; July 19; v. 288; p. 618.
Hamblet, Marcia C., Salem, Mass. Ink-eradicator. No. 144,412; July 5; v. 288, p. 193.
Hampshire Paper Company, South Hadley Falls, Mass. Paper for general printing and writing purposes and mailing-envelops. No. 145,107; July 26; v. 288; p. 813.
Hanson, Stacy L., *et al.*, executors. (See Williams, Frank B.)
Haralson, William D., Fort Payne, Ala. Medicinal preparation for the treatment of the liver and kidneys. No. 144,413; July 5; v. 288; p. 193.
Hartford Rubber Works Company, The, Hartford, Conn. Vehicle-tires made of rubber. No. 145,109; July 26; v. 288; p. 813.
Hazard Manufacturing Company, Wilkes-Barre, Pa., and New York, N. Y. Insulated wire and cables, &c. No. 144,578; July 12; v. 288; p. 424.
Heimbruch, C., Ludwig, New York, N. Y. Buttons. No. 144,794; July 19; v. 288; p. 618.
Heinick, Frederick R., San Francisco, Calif. Pongee silk in the piece. No. 145,110; July 26; v. 288; p. 813.
Heller, B., and Company, Chicago, Ill. Preparation for the poisoning of vermin and rodents. No. 144,659; July 12; v. 288; p. 427.
Hemmick, Clarence C., Chicago, Ill. Men's collars, cuffs, dress and negligée shirts, &c. No. 145,111; July 26; v. 288; p. 818.
Henderson, Goldson R., Detroit, Mich. Hair-restorer. No. 144,414; July 5; v. 288; p. 193.
Heppes-Nelson Roofing Company, The, Chicago, Ill. Prepared roofing. Nos. 144,570–80; July 12; v. 288; p. 424.
Herald-Leader Company, Menominee, Mich. Illustrated magazine published monthly. No. 145,112; July 26; v. 288; p. 818.
Herrmann, Gauge Co., The, Detroit, Mich. Thread-gages. No. 145,268; July 26; v. 288; p. 822.
Higgs, Percy J., New York, N. Y. Phonographs, talking-machines, reproducers, &c. No. 144,415; July 5; v. 288; p. 193.
Hirsch, Walter J., Co., Chicago, Ill. Peanut-butter. No. 145,113; July 26; v. 288; p. 814.
Hoadley, Edward J., Hartford, Conn. Breath-perfume losenges. No. 144,581; July 12; v. 288; p. 424.
Hobbs Laboratories Inc., Los Angeles, Calif. Storage batteries. No. 144,416; July 5; v. 288; p. 193.
Hoge Manufacturing Company, The, New York, N. Y. Propel-pencils and leads and erasers therefor. No. 145,114; July 26; v. 288; p. 814.
Holden-Leonard Company, New York, N. Y. Textile fabrics in the piece. No. 145,115; July 26; v. 288; p. 814.
Holland, E. S., Co., Inc., New York, N. Y. Gelatin compound used in the Janney reproduction process. No. 144,417; July 5; v. 288; p. 193.
Holland Food Corporation, New York, N. Y. Dried fruits, flours—namely, rolled oats, olein. No. 144,799; July 19; v. 288; p. 618.
Hollander-Koshland Co., Baltimore, Md. Medicine for the treatment of coughs and colds. No. 144,796; July 19; v. 288; p. 618.
Homestead Phonograph & Violin Manufacturing Company, Homestead, Pa. Phonographs. No. 144,582; July 12; v. 288; p. 424.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes. No. 144,527; July 5; v. 288; p. 199.
Horder's Incorporated, Chicago, Ill. Rubber stamps. No. 144,797; July 19; v. 288; p. 618.
Howard Specialties Company, Inc., New York, N. Y. Safety-razors and hair-trimmers. No. 145,116; July 26; v. 288; p. 814.
Hubbuck, Thos., & Son, Limited, London, England. Paints and pigments. No. 144,904; July 19; v. 288; p. 622.
Hudson Hosiery Co., Waterbury, Conn. Hosiery. No. 145,117; July 26; v. 288; p. 814.
Hudson, J. L., Co., The, Detroit, Mich. Knit underwear for women. No. 144,798; July 19; v. 288; p. 618.
Hunnewell, John A., Lowell, Mass. Granulated soap. No. 144,800; July 19; v. 288; p. 618.
Hunt, C. W., Company Inc., West New Brighton, N. Y. Cars and couplings. No. 144,584; July 12; v. 288; p. 424.
Huntington & Guerry Inc., Greenville, S. C. Electrical apparatus. No. 144,801; July 19; v. 288; p. 618.
Hyde Manufacturing Company, Southbridge, Mass. Knives, edge-tools, handles. No. 144,585; July 12; v. 288; p. 424.
Ideal Coated Paper Company, Brookfield, Mass. Gummed paper. No. 145,118; July 26; v. 288; p. 814.
Ideal Cocoa and Chocolate Co., Lititz, Pa., and New York, N. Y. Chocolate coating. No. 144,802; July 19; v. 288; p. 618.
Illinois Carbon & Ribbon Co., Inc., Chicago, Ill. Carbon-paper. No. 144,803; July 19; v. 288; p. 619.
Illinois Watch Case Company, Elgin, Ill. Watch-movements. No. 144,804; July 19; v. 288; p. 619.
Illinois Wire & Cable Company, Sycamore, Ill. Insulated wire and cable. No. 144,418; July 5, v. 288; p. 193.
International Company, The, Baltimore, Md. Egg-white preparation used for making white cake, meringues, &c. Nos. 144,805–6; July 19; v. 288; p. 619.
International Cork Company, Brooklyn, N. Y. Cork compositions used as a covering for rolls, cork innersoling for shoes, &c. No. 144,807; July 19; v. 288; p. 619.
International Devices Company, New York, N. Y. X-ray apparatus, electrical time-switches, speed-governors, &c. No. 144,808; July 19; v. 288; p. 619.
International Drug Company, Wilmington, Del. Wine of cod-liver oil. No. 144,660; July 12; v. 288; p. 427.
International Harvester Company, Chicago, Ill. Agricultural implements. Nos. 144,586–7; July 12; v. 288; p. 424.
International Harvester Company, Chicago, Ill. Certain agricultural machinery and parts thereof. No. 145,119; July 26; v. 288; p. 814.
International Silver Company, Meriden and Waterbury, Conn. Silver-plated flat-ware. No. 144,809; July 19; v. 288; p. 619.
Interprovincial Flour Mills, Ltd., Saskatoon, Saskatchewan, Canada. Wheat-flour. Nos. 144,810–11; July 19; v. 288; p. 619.
Interstate Shade Cloth Co., Hoboken, N. J. Holland shade-cloth. Nos. 145,269–70; July 26; v. 288; p. 822.
Interstate Shade Cloth, Co., Hoboken, N. J. Scotch beetled window-holland. No. 145,271; July 26; v. 288; p. 823.
Israel Orchard Co., Dayton, Wash. Fresh apples. No. 144,886; July 19; v. 288; p. 621.
Iverson, Martin, Minneapolis, Minn. Washing-tablets. No. 144,812; July 19; v. 288; p. 619.
Jackson, Gabrielle E., New York, N. Y. Candy. No. 145,120; July 26; v. 288; p. 814.
Jansen & Pretzfeld, Inc., New York, N. Y. Silk in the piece. No. 144,813; July 19; v. 288; p. 619.
Jardox Limited, London, England. Extract of meat. No. 144,814; July 19; v. 288; p. 619.
Jefferson Collar Co., New York, N. Y. Collars and neckbands. No. 145,121; July 26; v. 288; p. 814.
Jeffrey-Dewitt Insulator Company, Kenova, W. Va. Electric insulators. No. 144,588; July 12; v. 288; p. 424.
Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons, silk and satin piece goods. No. 144,815; July 19; v. 288; p. 619.
Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons and goods in the piece. No. 144,816; July 19; v. 288; p. 619.
Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons, and certain named piece goods. No. 145,122; July 26; v. 288; p. 814.
Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons and piece goods of silk and satins and mixtures. No. 145,123; July 26; v. 288; p. 814.
Johnson, James J., Chicago, Ill. Electric-lighting equipment. No. 144,817; July 19; v. 288; p. 619.
Johnson, Leonidas D., Richmond, Va. Roofing-cements. No. 144,589; July 12; v. 288; p. 424.
Johnstown Bottling Company. (See Rothstein, Maurice, assignor.)
Jones, B. F. A., St. Louis, Mo. Ointment for the treatment of the hair and scalp. No. 145,272; July 26; v. 288; p. 823.
Jones & Jones Company, The, Kingman, Kans. Sheet-rubber patches. No. 145,124; July 26; v. 288; p. 814.
Judell, Maxson F., New York, N. Y. Toilet and shaving soaps, shaving-cream. No. 144,421; July 5; v. 288; p. 193.
Justa Manufacturing Company, Oklahoma, Okla. Patches for tires. No. 145,125; July 26; v. 288; p. 814.
Kahn, Samuel, New York, N. Y. Fur-skins. No. 145,126; July 26; v. 288; p. 814.
Kalamazoo Loose Leaf Binder Company, Kalamazoo, Mich. Stationery. Nos. 144,661–3; July 12; v. 288; p. 428.
Kalamazoo Vegetable Parchment Co., Kalamazoo, Mich. Parchment-papers, waxed paper, wrapping-papers, and bond writing-papers. No. 145,127; July 26; v. 288; p. 814.
Kappus, John M., Cleveland, Ohio. Display-racks. No. 144,590; July 12; v. 288; p. 424.
Keene Washing Products Company, Keene, N. H. Washing compounds. No. 145,128; July 26; v. 288; p. 814.
Keet & Rountree Dry Goods Co., Springfield, Mo. Overalls. No. 144,818; July 19; v. 288; p. 619.
Keller Knitting Company, The, Cleveland, Ohio. Knitted sweaters and sweater-coats. No. 144,819; July 19; v. 288; p. 619.
Kellogg, Spencer, & Sons, Inc., Buffalo, N. Y. Castor-oil. No. 145,014; July 19; v. 288; p. 629.
Kelso, J. Russell, Trenton, N. J. Brake-linings and clutch-facings. No. 144,422; July 5; v. 288; p. 193.

Kenaski Bros., Jersey City, N. J. Insect-exterminator. No. 144,423; July 5; v. 288; p. 193.
Kent, Charles W., Peoria, Ill. Electric massage-machines. No. 144,424; July 5; v. 288; p. 193.
Kervan Company, New York, N. Y. Florist dispensing supplies. No. 144,820; July 19; v. 288; p. 619.
Kesting, Harry A., Kansas City, Mo. Shelled popcorn. No. 144,821; July 19; v. 288; p. 619.
Keuffel & Esser Company, Hoboken, N. J. Sketching-paper. No. 144,822; July 19; v. 288; p. 619.
Keystone Hair Insulator Company, Pittsburgh, Pa. Insulating-sheeting. No. 144,592; July 12; v. 288; p. 424.
Kilo Electric Company, Indianapolis, Ind. Electric socket-switches, electric motors. &c. No. 144,826; July 19; v. 288; p. 619.
Kirkwen Multipower Axle Co. Inc., Seattle, Wash. Axles and axle parts of power-driven vehicles. No. 144,593; July 12; v. 288; p. 424.
Kliss Candy Company, Washington, D. C. Chocolate and bonbons. No. 144,824; July 19; v. 288; p. 619.
Knab, Frederick, Chicago, Ill. Cream-powder for making custards and puddings. No. 144,825; July 19; v. 288; p. 619.
Knight, Allen & Clark, Boston, Mass. Printing-papers. No. 144,594; July 12; v. 288; p. 424.
Kohnstamm, H., & Co., New York, N. Y. Paste colors for foods and ingredients. No. 144,596; July 12; v. 288; p. 424.
Laclede-Christy Clay Products Company, St. Louis, Mo. Fire bricks and tile. No. 144,827; July 19; v. 288; p. 619.
Lakeland Citrus Co., Lakeland, Fla. Fresh citrus fruits. No. 145,129; July 26; v. 288; p. 814.
Langhoff Bros. Co., New Orleans, La. Syrups and molasses for table use. No. 144,597; July 12; v. 288; p. 424.
Langhoff Bros. Co., New Orleans, La. Syrups and molasses for table use. No. 144,828; July 19; v. 288; p. 619.
Las-Stik Patch Mfg. Co., Hamilton, Ohio. Fabric and rubber repair-patches. No. 144,426; July 5; v. 288; p. 194.
Lashbrow Laboratories Co., St. Louis, Mo. Preparation for beautifying and promoting growth of the eyelashes and eyebrows. No. 144,425; July 5; v. 288; p. 194.
Lehmann, Geo. A., Paper Company Inc., New York, N. Y. Sheet-paper, particularly in the form of writing-paper and bristol-board. No. 144,427; July 5; v. 288; p. 194.
Lemire, Em, Jr., Manchester, N. H. Leather-dressing, and certain cleaning preparations. No. 145,130; July 26; v. 288; p. 814.
Lesher, Whitman & Co., Inc., New York, N. Y. Piece goods. Nos. 145,131–2; July 26; v. 288; p. 814.
Levine, Louis J., New York, N. Y. Boots and shoes of leather. No. 144,829; July 19; v. 288; p. 619.
Levor, S. M., & Co., New York, N. Y. Silk and cotton piece goods. No. 144,830; July 19; v. 288; p. 619.
Lewis, G. B., Company, Watertown, Wis. Beehives and certain named parts thereof. No. 144,528; July 5; v. 288; p. 199.
Lewis, W. Cary, Chicago, Ill. Journal and like packing. No. 144,598; July 12; v. 288; p. 424.
Lima, Victoria, Mexico, Mexico. Pharmaceutical preparations. No. 144,428; July 5; v. 288; p. 194.
Lindenburg Piano Company, The, Columbus, Ohio. Piano-player actions. No. 144,831; July 19; v. 288; p. 619.
Linen Thread Company, The, New York, N. Y. Linen thread. No. 144,832; July 19; v. 288; p. 619.
Link, Benjamin, Chicago, Ill. Softener and drier for printers' ink. No. 144,664; July 12; v. 288; p. 428.
Littauer Oil Company, Guttenberg, N. J. Edible vegetable oils. No. 144,833; July 19; v. 288; p. 619.
Lockhart Spiral Service Leggings, Inc., Brooklyn, N. Y. Spiral puttees. No. 144,834; July 19; v. 288; p. 619.
Loiacano, Sam, Orange, Tex. Medicinal preparation for diarrhea and other diseases of the bowels. No. 144,599; July 12; v. 288; p. 424.
Los Angeles Soap Company, Los Angeles, Calif. Soaps. No. 145,133; July 26; v. 288; p. 814.
Louisville Cement Company, Louisville, Ky. Portland cement. No. 144,600; July 12; v. 288; p. 424.
Louisville Paint Mfg. Co., Louisville, Ky. Ready-mixed and paste paints, varnishes, &c. No. 145,134; July 26; v. 288; p. 814.
Lounsbury, Henry B., New York, N. Y. Papers. No. 144,835; July 19; v. 288; p. 619.
Love and Kopis Candy Co., West Allis, Wis. Candy. No. 144,836; July 19; v. 288; p. 620.
Lucey Manufacturing Corporation, New York, N. Y. Oil and gas well drilling or boring apparatus and accessories. No. 144,430; July 5; v. 288; p. 194.
Lufkin Rule Company, The, Saginaw, Mich. Measuring rules and tables. Nos. 145,273–4; July 26; v. 288; p. 823.
McAvity, T., and Sons Limited, St. John, New Brunswick, Canada. Metal valves for general use. No. 145,135; July 26; v. 288; p. 814.
McDonald Bros. Co., Minneapolis, Minn. Cotton, wool, and linen goods in the piece. No. 144,837; July 19; v. 288; p. 620.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Chocolate, candies, and cocoa. No. 144,665; July 12; v. 288; p. 428.
McFadden, Bert, Berkeley, Calif. Cleaning and polishing preparation for dental use. No. 144,601; July 12; v. 288; p. 424.
McIntyre, Joseph J., Brooklyn, N. Y. Medicinal preparation for certain named purposes. No. 144,431; July 5; v. 288; p. 194.
McKibbin, Driscoll & Dorsey, Inc., St. Paul, Minn. Men's hats. No. 144,838; July 19; v. 288; p. 620.
McPhee Cement Company, Scranton, Pa. High-temperature cement. No. 145,136; July 26; v. 288; p. 814.
Maass & Kemper, Incorporated, Baltimore, Md. Household linens, draperies, handkerchiefs, nets, &c. No. 144,839; July 19; v. 288; p. 620.
Maastrichtsche Zinkwit Maatschappij, Maastricht, Netherlands. Paints, whether white or colored, in powder, pasty, or liquid form. Nos. 144,840–1; July 19; v. 288; p. 620.
Mack, Thomas, Chicago, Ill. Flooring and flooring materials. No. 145,138; July 26; v. 288; p. 814.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 145,139–44; July 26; v. 288; p. 814.
Mann, Samuel, New York, N. Y. Hosiery. No. 144,432; July 5; v. 288; p. 194.
Manning Abrasive Co. Inc., Troy, N. Y. Abrasives coated on cloth or paper, or both. No. 144,842; July 19; v. 288; p. 620.
Mansfield Piano Co., New York, N. Y. Pianos and player-pianos. No. 144,602; July 12; v. 288; p. 424.
Mappin & Webb Limited, London and Sheffield, England. Plate-powder. No. 144,603; July 12; v. 288; p. 424.
Marathon Tire & Rubber Co., The, Cuyahoga Falls, Ohio. Rubber tires, casings, and tubes. No. 144,433. July 5; v. 288; p. 194.
Marathon Tire & Rubber Co., Cuyahoga Falls, Ohio. Rubber tires, casings, and tubes. No. 144,859; July 19; v. 288; p. 620.
Marchand, Charles, Co., New York, N. Y. Golden-hair wash. No. 144,604; July 12; v. 288; p. 425.
Marciani, Diego, Hackensack, N. J. Candies called caramels. No. 145,145; July 26; v. 288; p. 814.
Marietta Manufacturing Company, Point Pleasant, W. Va. Marine steam-engines. No. 145,276; July 26; v. 288; p. 823.
Marion Insulated Wire & Rubber Co., Marion, Ind. Insulated wires and cables. No. 144,605; July 12; v. 288; p. 425.
Marks, Michael, Philadelphia, Pa. Storage batteries. No. 144,606; July 12; v. 288; p. 425.
Marquette Piano Company, The, Chicago, Ill. Pianos, organs, orchestrions, and phonographs. No. 144,434; July 5; v. 288; p. 194.
Marsh, Geo., Company, Inc., Raleigh, N. C. Canned fruits and vegetables. No. 145,277; July 26; v. 288; p. 823.
Marshall Field & Company, Chicago, Ill. Cheviots in the piece. No. 144,843; July 19; v. 288; p. 620.
Marshall Field & Company, Chicago, Ill. Awning-stripes in the piece. No. 144,844; July 19; v. 288; p. 620.
Marshall Field & Company, Chicago, Ill. Mosquito-netting in the piece. No. 144,845; July 19; v. 288; p. 620.
Marshall Field & Company, Chicago, Ill. Long-cloth in the piece. No. 144,846; July 19; v. 288; p. 620.
Marshall Field & Company, Chicago, Ill. Sheets, pillow-cases, and sheeting. No. 144,847; July 19; v. 288; p. 620.
Marshall Field & Company, Chicago, Ill. Muslin in the piece. Nos. 144,848–55; July 19; v. 288; p. 620.
Marshall Field & Company, Chicago, Ill. Bedspreads. No. 145,146; July 26; v. 288; p. 814.
Martens & Ketels Milling Co., Sioux City, Iowa. Wheat-flour. No. 145,147; July 26; v. 288; p. 815.
Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, N. Y. Candies and chocolates. No. 144,856; July 19; v. 288; p. 620.
Mason, Volney W., & Co., Inc., Providence, R. I. Hoisting machinery. No. 145,148; July 26; v. 288; p. 815.
M. S. Co., Attleboro, Mass. Jewelers' findings. No. 145,162; July 26; v. 288; p. 815.
Massey Concrete Products Corporation, Chicago, Ill. Concrete poles. No. 144,857; July 19; v. 288; p. 620.
Mathews, E. L., Candy Company, Wilmington, N. C. Candy. No. 144,606; July 12; v. 288; p. 428.
May Brothers, Memphis, Tenn. Lumber. Nos. 144,435–8; July 5; v. 288; p. 194.
Melicow, Jacob, New York, N. Y. Predigested food and fermented milk preparation. No. 145,149; July 26; v. 288; p. 815.
Memphis Bread Company, Memphis, Tenn. Bread and cake. No. 144,607; July 12; v. 288; p. 425.
Mengart Knitting Mills, New York, N. Y. Sweaters, mufflers, caps, and hats for ladies and girls. No. 145,150; July 26; v. 288; p. 815.
Merryweather Coffee, Tea & Spice Co., Cincinnati, Ohio. Coffee. No. 145,278; July 26; v. 288; p. 823.
Metal Saw and Machine Company Inc., Springfield, Mass. Metal-cutting band-saw machines. Nos. 144,608–9; July 12; v. 288; p. 425.
Meyer, John H., Silk Mills Co., Northampton borough, Pa., and New York, N. Y., assignor to John H. Meyer & Co., Inc., New York, N. Y. Silk piece goods. No. 144,858; July 19; v. 288; p. 620.
Meyer & Stüdell, London, England. Watches, clocks, and parts thereof. Nos. 144,439–40; July 5; v. 288; p. 194.
Meyerpeter, Stephen J., Chicago, Ill. Fountain-pens, gold pen-points, pocket-clips, and lead-pencils. No. 144,441; July 5; v. 288; p. 194.
Meyers, J. A., & Co., Los Angeles, Calif. Wedding-rings. No. 144,860; July 19; v. 288; p. 620.

Midland Motor Car and Truck Company, Oklahoma, Okla. Motor cars and trucks. No. 145,157; July 26; v. 288; p. 815.
Migel, J. A., Inc., New York, N. Y. Silk, cotton, and woolen piece goods and the combinations thereof. No. 144,861; July 19; v. 288; p. 620.
Miller, Edward L., Buffalo, N. Y. Aspirin. No. 144,612; July 12; v. 288; p. 425.
Miller-Lambert Chemical Co. Inc., Columbia, S. C. Face and cold creams, vanishing cream, and hair-dressing. No. 144,442; July 5; v. 288; p. 194.
Miller, Benjamin F., Philadelphia, Pa. Cookies. No. 145,152; July 26; v. 288; p. 815.
Milliken, Wm. A., New York, N. Y. Dental-plate polish. No. 144,862; July 19; v. 288; p. 620.
Milwaukee Brewery of San Francisco, San Francisco, Calif. Cereal beverage. No. 144,529; July 5; v. 288; p. 199.
Milwaukee Glove Company, Milwaukee, Wis. Leather and cloth gloves and mittens. No. 145,153; July 26; v. 288; p. 815.
Mindling, Grover N., Pittsburgh, Pa. Sugar cakes. No. 144,610; July 12; v. 288; p. 425.
Minneapolis Heat Regulator Co., Minneapolis, Minn. Thermostatic heat regulators. Nos. 145,279–80; July 26; v. 288; p. 824.
Mitchell, T. J., & Co., Inc., New York, N. Y. Broad silks in the piece. No. 145,155; July 26; v. 288; p. 815.
Mitchell, T. J., & Co., Inc., New York, N. Y. Satins in the piece. No. 145,154; July 26; v. 288; p. 815.
Modine Manufacturing Company, Racine, Wis. Automobile-radiators. No. 144,443; July 5; v. 288; p. 194.
Moe, Blanche W., Chicago, Ill. Coloring-matter suitable for the coloring of hair. No. 144,444; July 5; v. 288; p. 194.
Monarch Leather Company, Chicago, Ill. Leather. No. 144,863; July 19; v. 288; p. 620.
Mono-Service Co., Newark, N. J. Composition containers for food products. No. 145,000; July 19; v. 288; p. 627.
Moore, Benjamin, & Co., New York, N. Y. Flat wall-paint. No. 144,864; July 19; v. 288; p. 620.
Moore & Evans, Chicago, Ill. Catalogues issued monthly and annually. No. 144,865; July 19; v. 288; p. 620.
Moore, H. J., Glove Company, St. Paul, Minn. Gloves and mittens of leather, fabric, and combination of the leather and fabric. No. 144,866; July 19; v. 288; p. 620.
Moore, Martin L., Memphis, Tenn. Medicinal and pharmaceutical preparations. No. 145,001; July 19; v. 288; p. 627.
More-Jones Brass & Metal Company, St. Louis, Mo. Babbitt metal. Nos. 145,156–9; July 26; v. 288; p. 815.
More-Jones Brass & Metal Company, St. Louis, Mo. Bearing metal. No. 145,160; July 26; v. 288; p. 815.
Morris & Company, Chicago, Ill. Butter and eggs. No. 144,667; July 12; v. 288; p. 428.
Morris, Emil, Detroit, Mich. Razors. No. 145,161; July 26; v. 288; p. 815.
Morris, Joshua L., Chicago, Ill. Pocket sales-registers. No. 144,867; July 19; v. 288; p. 620.
Motor-Kick Company, Philadelphia, Pa. Chemical for removing deposits from the cylinders of engines. No. 144,611; July 12; v. 288; p. 425.
Motor-Log, Bethlehem, Pa. Record-books. No. 144,868; July 19; v. 288; p. 620.
Mueller, Joseph H., Cleveland, Ohio. Medicinal preparations used as laxatives. No. 144,613; July 12; v. 288; p. 425.
N. V. Eerste Nederlandsche Fabriek van Asbest-Cementplaten, Amsterdam, Netherlands. Sheets and plates made of asbestos and cement and used for building purposes. No. 144,754; July 19; v. 288; p. 617.
Naamlooze Vennootschap Oliefabrieken Insulinde, Amsterdam, Netherlands. Residues of oils and fats used as fertilizers. No. 144,869; July 19; v. 288; p. 621.
Napier-Bliss Company, Meriden, Conn. Jewelry. No. 144,870; July 19; v. 288; p. 621.
Nash, C. A., & Son, Inc., Norfolk, Va. Paints and pigments, colors, putty, &c. No. 144,614; July 12; v. 288; p. 425.
National Aniline and Chemical Company Incorporated, New York, N. Y. Dyestuffs, intermediates, certified food-colors. Nos. 144,872–7; July 19; v. 288; p. 621.
National Association of Credit Men, New York, N. Y. Monthly publication. No. 144,615; July 12; v. 288; p. 425.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 144,905; July 19; v. 288; p. 622.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 145,164; July 26; v. 288; p. 815.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 145,231; July 26; v. 288; p. 817.
National Carbon Company, Inc., Cleveland, Ohio. Electrical apparatus. No. 144,445; July 5; v. 288; p. 194.
National Crayon Company, Philadelphia, Pa. Crayons. No. 144,871; July 19; v. 288; p. 621.
National Equipment Company, Springfield, Mass. Monthly periodicals. No. 145,163; July 26; v. 288; p. 815.
National Licorice Company, Brooklyn, N. Y. Licorice candy. No. 144,878; July 19; v. 288; p. 621.
Nowak Milling Corporation, Buffalo, N. Y., and Hammond, Ind. Horse feed. No. 144,616; July 12; v. 288; p. 425.
Newport Optical Manufacturing Co., Brooklyn, N. Y. Hinges. No. 145,281; July 26; v. 288; p. 824.
National Tire & Rubber Company, The, East Palestine, Ohio. Rubber tires and tubes. No. 144,879; July 19; v. 288; p. 621.
National Trading Company, Chicago, Ill. Hair-nets. No. 144,880; July 19; v. 288; p. 621.
National Trading Company, Chicago, Ill. Hair-nets. No. 144,906; July 19; v. 288; p. 622.
National Veneer Products Company, Mishawaka, Ind. Laundry-hampers or clothes-hampers. No. 144,446; July 5; v. 288; p. 194.
Naumkeag Steam Cotton Co., Salem, Mass. Sheets, pillow-cases, and cotton piece goods. No. 145,002; July 19; v. 288; p. 627.
Navy League of the United States, Washington, D. C. Fancy silk or cloth bags designed for holding knitting or sewing material. No. 144,907; July 19; v. 288; p. 622.
New England Waste Company, Boston, Mass. Egyptian-waste-cotton strips. No. 144,881; July 19; v. 288; p. 621.
New Jersey Zinc Company, The, Newark, and borough of Franklin, N. J. Zinc oxid. No. 144,530; July 5; v. 288; p. 199.
New York Recording Laboratories, Port Washington, Wis. Phonographs, phonograph-records, record-albums, &c. No. 144,883; July 19; v. 288; p. 621.
Newman, Ida A., New York, N. Y. Soap powder. No. 144,882; July 19; v. 288; p. 621.
Niles-Bement-Pond Company, New York, N. Y. Radial drills and attachments therefor. No. 145,165; July 26; v. 288; p. 815.
Norton, John J., Laurel, Md. Medicinal preparation for use in influenza and la grippe. No. 144,447; July 5; v. 288; p. 194.
Noxon Chemical Products Co., Newark, N. J. Metal-polish. No. 145,166; July 26; v. 288; p. 815.
Nuccio, Frank J., New Orleans, La. Preparation for certain named purposes. No. 144,617; July 12; v. 284; p. 425.
O'Brien & Co., Dublin, Ireland. Wines. No. 144,618; July 12; v. 288; p. 425.
O'Connor, John P., Parsons, Kans. Roasted coffee. No. 144,619; July 12; v. 288; p. 425.
Ogden Baking Company, Ogden, Utah. Bread. No. 144,908; July 19; v. 288; p. 622.
Ogus, Rablnovich & Ogus Co., Chicago, Ill., and New York, N. Y. Hats for women and children. No. 144,909; July 19; v. 288; p. 622.
Ohio Refining Company, Cincinnati, Ohio. Gasolene, naphtha, kerosene, &c. No. 144,884; July 19; v. 288; p. 621.
Oklahoma Janitor Supply Company, Tulsa, Okla. Sweeping compounds. No. 144,885; July 19; v. 288; p. 621.
Omo Manufacturing Co., Middleton, Conn. Elastic webbing, cord, and braid, dress-belting. No. 145,167; July 26; v. 288; p. 815.
O'Neill, Charles H., Woodbury, N. J. Collars. No. 145,168; July 26; v. 288; p. 815.
Pacific Chemical Company, Los Angeles, Calif. Chemical drain opener and cleaner. No. 145,003; July 19; v. 288; p. 627.
Pacific Coast Barber Supply Company, Seattle, Wash. Combined electric hair-cutter and vibrator. No. 144,620; July 12; v. 288; p. 425.
Pacific Guano & Fertilizer Company, The, Honolulu, Hawaii. Fertilizers. No. 144,887; July 19; v. 288; p. 621.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 144,889–90; July 19; v. 288; p. 621.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 144,910–12; July 19; v. 288; p. 622.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 145,169; July 26; v. 288; p. 815.
Pacific Rice Growers Association, Sacramento, Calif. Rice. No. 144,888; July 19; v. 288; p. 621.
Pacz, Aladar, Cleveland Heights, Ohio. Aluminum alloys, castings, and structures. No. 145,170; July 26; v. 288; p. 815.
Paine Company, The, Chicago, Ill. Expansion-shells, toggle-bolts, &c. No. 145,282; July 26; v. 288; p. 824.
Pallarés, Hermanos, Cabra, Spain. Olive-oil. No. 144,795; July 19; v. 288; p. 618.
Paper Manufacturing Co. Inc., Philadelphia, Pa. Paper for wiping ink from the faces of dies. No. 145,284; July 26; v. 288; p. 824.
Pardue, Daniel G., Nashville, Tenn. Laxative tonic. No. 144,621; July 12; v. 288; p. 425.
Paris, Sidney, New York, N. Y. Pleasure-automobiles. No. 145,171; July 26; v. 288; p. 815.
Parker, C. C., Mercedes, Tex. Screw-worm preventive. No. 144,622; July 12; v. 288; p. 425.
Parker, Joseph, & Son Company, New Haven, Conn. Blotting-paper. No. 145,172; July 26; v. 288; p. 815.
Patrick, F. A., & Co., Duluth, Minn. Certain named notions. No. 145,283; July 26; v. 288; p. 824.
Paulson, Henry, Chicago, Ill. Watch-mainspring and watch-glasses. No. 145,173; July 26; v. 288; p. 815.

Pease & Dwyer Co., Memphis, Tenn. Sweet feed composed of oats, alfalfa-meal, and molasses. Nos. 144,891–2; July 19; v. 288; p. 621.
Peerless Key Co., Inc., New York, N. Y. Typewriter-keys, twirler-rings, shock-absorbers. No. 145,285; July 26; v. 288; p. 824.
Pellegrino, Angelo, New York, N. Y. Medicine for rheumatism and gout. No. 144,623; July 12; v. 288; p. 425.
Pellettiere, Geo. J., Worcester, Mass. Shoe-polish. No. 145,174; July 26; v. 288; p. 815.
Penn Lubric Oil Company, Kansas City, Mo. Motor and engine oil, lubricating oils and greases, and carbonless motor-oil. No. 145,175; July 26; v. 288; p. 815.
Pennsylvania Coffee Company, Pittsburgh, Pa. Coffee. No. 144,448; July 5; v. 288; p. 194.
Petrium Sanitary Sink Co., Berkeley, Calif. Sinks and washtrays. No. 145,176; July 26; v. 288; p. 815.
Phoenix Packing Company, Buras, La. Canned shrimp. Nos. 144,893–4; July 19; v. 288; p. 621.
Pittsburgh Iron Folding Bed Co., Pittsburgh, Pa. Bedsteads, metal folding beds, metal couches, woven-wire mattresses, &c. No. 144,449; July 5; v. 288; p. 194.
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers of leather, rubber, felt, silk, &c. No. 144,913; July 19; v. 288; p. 621.
Plumenall, Fernand, Paris, France. Chocolates, chocolate or cocoa powder, confectionery, biscuits, &c. No. 144,759; July 19; v. 288; p. 617.
Pocomoke Guano Co., The, Norfolk, Va. Fertilizer. No. 144,450; July 5; v. 288; p. 194.
Porter Company, Chicago, Ill. Spark-plugs. No. 145,177; July 26; v. 288; p. 815.
Pratt, Francis, & Son, Somerville, Mass. Metallic pen-points. No. 145,178; July 26; v. 288; p. 815.
Presto Cigarette Case Corp. of N. Y. Inc., North Attleboro, Mass. Cigarette-cases. No. 145,179; July 26; v. 288; p. 815.
Prestoy Mfg. Co., Bridgeport, Conn. Doll swings and high-chairs, toy sulkies and drums. No. 144,624; July 12; v. 288; p. 425.
Price and Teeple Piano Company, Chicago, Ill. Player-pianos. No. 144,451; July 5; v. 288; p. 194.
Procter and Gamble Company, The, Cincinnati, Ohio. Washing-powder. No. 144,895; July 19; v. 288; p. 621.
Puritan Pharmaceutical Co., St. Louis, Mo. Toilet preparations. No. 144,896; July 19; v. 288; p. 621.
Racine, Jules, & Co., New York, N. Y. Watches and watch-movements. No. 144,627; July 12; v. 288; p. 425.
Racine Rubber Company, Racine, Wis. Rubber or rubber and fabric tires and tubes for vehicles. Nos. 145,180–1; July 26; v. 288; p. 816.
Randall, A. I., Inc., Rockland, Mass. Catalogues, booklets, price-lists, and pamphlets. No. 145,004; July 19; v. 288; p. 628.
Raton Creamery Company, Raton, N. Mex. Pure creamery-butter. No. 144,897; July 19; v. 288; p. 621.
Rawlings, H. P., Wall Paper Co., Chicago, Ill. Wall-paper. No. 144,625; July 12; v. 288; p. 425.
Ray-Maling Co. Inc., Hillsboro, Oreg. Canned fruits, berries, and vegetables, fruit jams. No. 144,629; July 12; v. 288; p. 425.
Reade Manufacturing Company, Hoboken, N. J. Soldering-fluxes, (salts, fluids, and paste,) tinning and dipping fluxes. No. 144,452; July 5; v. 288; p. 194.
Reade Mfg. Co., The, Jersey City, N. J. Soldering fluids, soldering-paste, soldering-salts, tinning solution, and soldering-flux. No. 145,005; July 19; v. 288; p. 628.
Reardon Company, The, St. Louis, Mo. Cold-water paint. No. 144,898; July 19; v. 288; p. 621.
Red Wing Company, Inc., The, Fredonia, N. Y. Jellies and jams. No. 145,182; July 26; v. 288; p. 816.
Rees, Fred, Meriden, Conn. Safety-pins. No. 145,183; July 26; v. 288; p. 816.
Rees, Herbert C., San Antonio, Tex. Eyeglasses and spectacles. No. 145,286; July 26; v. 288; p. 825.
Regal Silver Mfg. Co., The, New Haven, Conn. Table flat-ware. No. 144,628; July 12; v. 288; p. 425.
Reichman & Faust, New York, N. Y. Hair-nets. No. 145,184; July 26; v. 288; p. 816.
Reliable Fruit & Produce Co., Yakima, Wash. Fresh apples. No. 144,453; July 5; v. 288; p. 194.
Remmers Soap Company, Cincinnati, Ohio. Toilet soap. No. 144,914; July 19; v. 288; p. 622.
Renner Company, The, Youngstown, Ohio. Non-alcoholic beverage. No. 144,454; July 5; v. 288; p. 194.
Republic Flow Meters Co., Chicago, Ill. Meters for measuring the flow of liquids. No. 145,185; July 26; v. 288; p. 816.
Retail Credit Men's Natl. Assn., St. Louis, Mo. Title for a periodical. No. 144,455; July 5; v. 288; p. 194.
Revere Rubber Company, Providence, R. I. Rubber nipples. No. 144,456; July 5; v. 288; p. 194.
Revere Rubber Company, Providence, R. I. Vehicle-tires made of rubber. No. 145,186; July 26; v. 288; p. 816.
Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Flat leather belting. No. 144,006; July 19; v. 288; p. 628.
Rhoads, J. E., & Sons, Philadelphia, Pa., and Wilmington, Del. Leather belting. No. 145,187; July 26; v. 288; p. 816.
Rhodes, John M., Chicago, Ill. Packing. No. 144,903; July 19; v. 288; p. 622.
Rhotanium Company, The, Cleveland, Ohio. Instruments and appliances of particular metals for laboratories. Nos. 144,457–8; July 5; v. 288; pp. 194–5.
Richard Hudnut, New York, N. Y. Soap. No. 144,583; July 12; v. 288; p. 424.
Richmond Radiator Company, New York, N. Y. Electric vacuum-cleaners, stationary and portable. No. 144,459; July 5; v. 288; p. 195.
Rivet-O Manufacturing Company, Orange, Mass. Moistening, mucilage-applying devices, inkwells, &c. No. 144,899; July 19; v. 288; p. 621.
Roberts and Schaefer Company, Chicago, Ill. Marcus horizontal picking-table screen. No. 145,287; July 26; v. 288; p. 825.
Roberts, G. G., Corporation, Whitman, Mass. Cut tacks. No. 145,188; July 26; v. 288; p. 816.
Robertson, B. L., Manassas, Va. Wheat-flour. No. 144,531; July 5; v. 288; p. 199.
Robertson-Cole Company, New York, N. Y. Motion-pictures. No. 144,460; July 5; v. 288; p. 195.
Robins, Max, Chicago, Ill. Non-alcoholic maltless beverages. No. 145,288; July 26; v. 288; p. 825.
Robins, Bunyan, Richmond, Va. Liniment. No. 144,461; July 5; v. 288; p. 195.
Rockford Metal Specialty Company, Rockford, Ill. Can-openers, apple-corers, cake-turners, &c. No. 144,462; July 5; v. 288; p. 195.
Rodstein & Hyman, New York, N. Y. Silk and cotton ribbons in the piece. No. 145,189; July 26; v. 288; p. 816.
Roeser, Ferdinand J., Rochester, N. Y. Concentrated barley-malt for use in beverages. No. 145,190; July 26; v. 288; p. 816.
Rogers Company, The, Tacoma, Wash. Peanut-oil for use as a salad-dressing and other culinary purposes. No. 144,901; July 19; v. 288; p. 621.
Rogers, Joseph D., Paterson, N. J. Silk yarns. No. 145,192; July 26; v. 288; p. 816.
Rogers, Lunt & Bowlen Company, Greenfield, Mass. Flat and hollow ware and jewelry. No. 145,191; July 26; v. 288; p. 816.
Rosenstein, Jacob, New York, N. Y. Wheat-flour. No. 144,915; July 19; v. 288; p. 622.
Rothstein, Maurice, assignor to Johnstown Bottling Company, Inc., Johnstown, Pa. Ginger-ale. No. 144,463; July 5; v. 288; p. 195.
Rovegno, Charles W., Brooklyn, N. Y. Medicinal preparations. No. 144,464; July 5; v. 288; p. 195.
Rowe Calk & Chain Company, The, Plantsville, Conn. Traction devices for use on automobile-wheels. No. 145,193; July 26; v. 288; p. 816.
Royersford Foundry & Machine Co., Royersford, Pa. Roller-bearings. No. 145,289; July 26; v. 288; p. 825.
Rueckheim Bros. & Eckstein, Chicago, Ill. Candied popcorn. No. 144,668; July 12; v. 288; p. 428.
Rueckheim Bros. & Eckstein, Chicago, Ill. Ice-cream cones. No. 144,900; July 19; v. 288; p. 621
Russell, Annie L., Philadelphia, Pa. Hair-grower salve and a salve for dressing and beautifying the hair. No. 144,626; July 12; v. 288; p. 425.
Ryrie, Geo. M., Company, Alton, Ill. Canned fruits, vegetables, and fish, fruit preserves, jellies, &c. No. 144,902; July 19; v. 288; p. 622.
S. S. S. Mfg. Co., Madisonville, Ky. Soft drink beverage. No. 144,932; July 19; v. 288; p. 622.
Sallerno, Savino, Boston, Mass. Non-alcoholic maltless beverages used as soft drinks. No. 144,916; July 19; v. 288; p. 622.
Samson Tractor Company, Janesville, Wis. Tractors, internal-combustion engines, &c. No. 144,466; July 5; v. 288; p. 195.
Sandfelder Corporation, The, Attleboro, Mass. Magazine lead-pencils. No. 144,917; July 19; v. 288; p. 622.
Sanford Mills, Sanford, Me. Artificial leather. No. 144,918; July 19; v. 288; p. 622.
Schoen, Carl, Silk Corporation, New York, N. Y. Textile fabrics—namely, silk, silk and wool, and silk and cotton fabrics. No. 144,919; July 19; v. 288; p. 622.
Schoening-Koenigsmark Milling Co., Valmeyer, Ill. Self-rising wheat-flour. No. 144,532; July 5; v. 288; p. 199.
Schulman, George, New York, N. Y. Dresses. No. 144,920; July 19; v. 288; p. 622.
Schwartz, S. Robert, & Bro., New York, N. Y. Portable electric lamps and conduit-fittings. No. 144,502; July 5; v. 288; p. 196.
Schwarz, Harry, St. Louis, Mo. Women's and girls' waists. No. 144,533; July 5; v. 288; p. 200.
Schweppes, Limited, London, England. Mineral waters. No. 144,921; July 19; v. 288; p. 622.
Scintilla, Canton of Solothurn, Switzerland. Motor-vehicles—viz., cars, boats, flying-machines, airships, &c. No. 144,922; July 19; v. 288; p. 622.
Scintilla, Solothurn, Switzerland. Engines and parts thereof. No. 145,215; July 26; v. 288; p. 817.
Scott Paper Company, Chester, Pa. Paper towels and napkins. No. 145,216; July 26; v. 288; p. 817.
Scovil, Cora D., New York, N. Y. Certain display devices. No. 145,291; July 26; v. 288; p. 825.
Scranton, H. S., Florence, Colo. Preparation for the cleansing of false teeth. No. 144,630; July 12; v. 288; p. 425.
Seaboard Refractories Company, Valentines, N. J. Refractory bricks. No. 145,221; July 26; v. 288; p. 817.
Sea Island Thread Co. Inc., New York, N. Y. Threads and yarns. No. 145,222; July 26; v. 288; p. 817.

Sears & Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. No. 144,534; July 5; v. 288; p. 200.
Sears, Roebuck and Co., Chicago, Ill. Sateen in the piece. No. 144,467; July 5; v. 288; p. 195.
Sears, Roebuck and Co., Chicago, Ill. Diaper-flannel in the piece. No. 144,923; July 19; v. 288; p. 622.
Sears, Roebuck and Co., Chicago, Ill. Middy-cloth in the piece. No. 144,924; July 19; v. 288; p. 622.
Sears, Roebuck and Co., Chicago, Ill. Cotton serge in the piece. No. 144,925; July 19; v. 288; p. 622.
Sears, Roebuck and Co., Chicago, Ill. Chambray in the piece. No. 144,926; July 19; v. 288; p. 622.
Sears, Roebuck and Co., Chicago, Ill. Ginghams in the piece. No. 144,927; July 19; v. 288; p. 622.
Sears, Roebuck and Co., Chicago, Ill. Wool rugs. No. 145,217; July 26; v. 288; p. 817.
Sears, Roebuck and Co., Chicago, Ill. Canton-flannel. No. 145,218; July 26; v. 288; p. 817.
Sears, Roebuck and Co., Chicago, Ill. Batiste in the piece. No. 145,219; July 26; v. 288; p. 817.
Sears, Roebuck and Co., Chicago, Ill. Ticking in the piece. No. 145,220; July 26; v. 288; p. 817.
Segal Lock & Hardware Co. Inc., New York, N. Y. Keys and locks. No. 144,631; July 12; v. 288; p. 425.
Seibel Air-Spring Company Incorporated, Phoenix, Ariz., and San Francisco, Calif. Pneumatic shock-absorbers. No. 144,468; July 5; v. 288; p. 195.
Selden Truck Corporation, Rochester, N. Y. Automobiles and motor-trucks. No. 144,469; July 5; v. 288; p. 195.
Seligman and Latz, New York, N. Y. Hair and scalp shampoo preparations. No. 144,419; July 5; v. 288; p. 193.
Seligman, N., Merchandise Co., New York, N. Y. Hair-nets. No. 144,928; July 19; v. 288; p. 622.
Senor & Wertheim Inc., New York, N. Y. Artificial-silk yarn. No. 145,223; July 26; v. 288; p. 817.
Service Auto Equipment Corporation, Kansas City, Mo. Outer tubes or shoes for pneumatic tires. No. 145,007; July 19; v. 288; p. 628.
Serv-us Grocery Products Corporation, New York, N. Y. Matches. No. 144,470; July 5; v. 288; p. 195.
Sewell, Marvin L., Lavonia, Ga. Medicinal preparations for certain named purposes. No. 145,008; July 19; v. 288; p. 628.
Sharples Specialty Company, The, Philadelphia, Pa. Series of pamphlets and circulars. No. 144,535; July 5; v. 288; p. 200.
Shasta Creamery Company, Corning, Calif. Butter. No. 144,669; July 12; v. 288; p. 429.
Shaw, Alex D., & Co., New York, N. Y. General antiseptic fluid. No. 144,471; July 5; v. 288; p. 195.
Shaw, Alex. D., & Co., New York, N. Y. Polish for woodwork, tables, and floors. No. 144,929; July 19; v. 288; p. 622.
Shepard, Arthur B., Company, The, Cleveland, Ohio. Buildings and partially-fabricated parts thereof. No. 144,930; July 19; v. 288; p. 622.
Sherman, Clay & Co., San Francisco, Calif. Harmonicas or mouth-organs. No. 144,931; July 19; v. 288; p. 622.
Sherwin-Williams Company, Cleveland, Ohio. Insecticides, including animal-dips. No. 144,632; July 12; v. 288; p. 425.
Sherwin-Williams Company, The, Cleveland, Ohio. Insecticides, fungicides, germicides, &c. No. 144,633; July 12; v. 288; p. 425.
Shields, Rosa B., Omaha, Neb. Hair-grower. No. 144,472; July 5; v. 288; p. 195.
Shores-Mueller Company, Cedar Rapids, Iowa. Medicinal preparations. No. 144,475; July 5; v. 288; p. 195.
Siegle G. Company, Rosebank, Staten Island, N. Y. Colors used in ink for printing and lithographing. Nos. 145,009–10; July 19; v. 288; p. 628.
Silver Lake Company, Newton, Mass. Braided cords. No. 144,536; July 5; v. 288; p. 200.
Simmons Hardware Company, St. Louis, Mo. Razor-strops. No. 144,936; July 19; v. 288; p. 623.
Simmons, Thomas W., Company, San Francisco, Calif. Gasolene and kerosene. No. 144,537; July 5; v. 288; p. 200.
Simonds, Walter A., Naguabo, Porto Rico. Fresh grapefruit and fresh oranges. No. 144,933; July 19; v. 288; p. 622.
Simplex Electric Heating Company, Boston, Mass. Electrical apparatus. No. 144,934; July 19; v. 288; p. 622.
Simpson, John B., Philadelphia, Pa. Articles of clothing. No. 144,935; July 19; v. 288; p. 623.
Slater, Albert H., Paterson, N. J. Mattresses and pillows. No. 144,473; July 5; v. 288; p. 195.
Smart & Final Co., Santa Ana, Calif. Roasted coffee, vinegar, prepared mustard, &c. No. 144,474; July 5; v. 288; p. 195.
Smith, Frank, Packing Co., Sacramento, Calif. Canned fruits. Nos. 144,937–8; July 19; v. 288; p. 623.
Smith, Frank P., Huntington, Ind. Polish for furniture and automobiles. No. 144,939; July 19; v. 288; p. 623.
Smith & Hemenway Company, Inc., New York, N. Y. and Irvington, N. J. Metal and lock washers. No. 144,940; July 19; v. 288; p. 623.
Smith, Hogg & Co., New York, N. Y. Cotton goods in the piece. Nos. 145,011–12; July 19; v. 288; pp. 628–9.
Smith, R. Cecil, West Fort Lee, N. J. Motion-pictures. No. 145,224; July 26; v. 288; p. 817.
Société D'Emboutissage et de Constructions Mécaniques, Colombes, France. Motorcycles. No. 144,478; July 5; v. 288; p. 195.
Societe Des Moteurs Gnome et Rhone, Paris, France. Automobiles. No. 144,477; July 5; v. 288; p. 195.
Societe Des Moteurs Gnome et Rhone, Paris, France. Nails, bolts, screws, metallic handles for furniture, &c. No. 144,476; July 5; v. 288; p. 195.
Solomons, Harry & Son, New York, N. Y. Ladies' hats, trimmed and untrimmed. No. 144,941; July 19; v. 288; p. 623.
South & Central American Commercial Co., Inc., New York, N. Y. Cotton, wool, silk, &c., piece goods. No. 145,226; July 26; v. 288; p. 817.
Southard, Walter P., Rocky River, Ohio. Letter-heads, circulars, and the like. No. 145,225; July 26; v. 288; p. 817.
Southern Beverage Company, Galveston, Tex. non-alcoholic beverages in the form of a syrup or carbonated in bottles. No. 144,420; July 5; v. 288; p. 193.
Southern California Hardwood and Manufacturing Company, Los Angeles, Calif. Phonographs, phonograph-record ejectors, and phonograph-record ejectors mounted in cabinets. No. 144,942; July 19; v. 288; p. 623.
Southern Cotton Oil Company, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Prepared fatty oleaginous or unctuous food substance. No. 145,013; July 19; v. 288; p. 629.
Spangenberg & Co., Chicago, Ill. Eggs and butter. No. 144,670; July 12; v. 288; p. 429.
Spoon and Straw, Inc., The, Chicago, Ill. Candies, ice-cream, lunches, and cakes. No. 144,943; July 19; v. 288; p. 623.
St. Clair, Rosa D., San Antonio, Tex. Hair-grower, pressing-oil, hair-tonic, &c. No. 144,636; July 12; v. 288; p. 425.
St. Louis Independent Packing Company, St. Louis, Mo. Oleomargarin. No. 144,538; July 5; v. 288; p. 200.
Standard Music Roll Co., Orange, N. J. Music-rolls. No. 144,635; July 12; v. 288. p. 425.
Standard Oil Company of New York, New York, N. Y. Asphaltum. No. 144,944; July 19; v. 288; p. 623.
Standard Paper Mfg. Co., Richmond, Va. Blotting-paper. No. 144,946; July 19; v. 288; p. 623.
Standard Sanitary Specialties Company, Inc., Jersey City, N. J. Shaving-cream to be used before shaving. No. 144,945; July 19; v. 288; p. 623.
Standard Ventilator Company, Lewisburg, Pa. Ventilators and chimney-caps. No. 145,015; July 19; v. 288; p. 629.
Star Watch Case Co., Ludington, Mich. Watches and watch parts. No. 144,634; July 12; v. 288; p. 425.
Startit Manufacturing Company, The, Indianapolis, Ind. Electrical fuel-heaters for explosion-engines. No. 144,947; July 19; v. 288; p. 623.
Steinhardt & Bro., New York, N. Y. Hair-curlers. No. 145,292; July 26; v. 288; p. 825.
Stewart, Fred A., San Jose, Calif. Transparent book and document mending tissue. No. 145,227; July 26; v. 288; p. 817.
Stewart Hog Ring Company, Paris, Ill. Nose-rings for animals. No. 144,479; July 5; v. 288; p. 195.
Stillwell, E. J., Paper Company, St. Paul, Minn. Wrapping and writing paper. No. 144,637; July 12; v. 288; p. 426.
Stoll Film Corporation of America, New York, N. Y. Motion-pictures. No. 145,228; July 26; v. 288; p. 817.
Stone & Andrew, Inc., Boston, Mass. Ledger, writing, and printing papers. No. 144,480; July 5; v. 288; p. 195.
Stone Fizz Company of America Inc., The, Chattanooga, Tenn. Non-alcoholic, maltless beverages. No. 144,948; July 19; v. 288; p. 623.
Stone, Junius H., New York, N. Y. Prepared felt for construction purposes. No. 145,229; July 26; v. 288; p. 817.
Strickler, Dean D., Huntingdon, Pa. Ice-cream. No. 144,671; July 12; v. 288; p. 429.
Strohmeyer & Arpe Company, New York, N. Y. Hair-tonic, shampoo, hair-cleanser. No. 144,638; July 12; v. 288; p. 426.
Stroud, Lillian E. A., Philadelphia, Pa. Shampooing preparation. No. 145,016; July 19; v. 288; p. 629.
Summers, Charles G., Co., The, Baltimore, Md. Canned vegetables. No. 145,230; July 26; v. 288; p. 817.
Sure-On Tire Saver Co., Chicago, Ill. Treads. No. 144,481; July 5; v. 288; p. 195.
Tanner-Gross, W. P., & Company, Inc., New York, N. Y. Wheat-flour. Nos. 144,672–3; July 12; v. 288; p. 429.
Tausend, Felix, New York, N. Y. Annual and periodical price-lists and catalogues. No. 144,539; July 5; v. 288; p. 200.
Taylor, J. L., Company, The, Los Angeles, Calif. Fresh citrus fruits. No. 144,949; July 19; v. 288; p. 623.
Taylor, John H., Philadelphia, Pa. Thumb-tacks. No. 144,639; July 12; v. 288; p. 426.
Taylor, Syd S., Brooklyn, N. Y. Pulling-candy. No. 144,482; July 5; v. 288; p. 195.
Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene-oil. No. 144,950; July 19; v. 288; p. 623.
The Best Mills Co., New York, N. Y. Articles of clothing. No. 144,516; July 5; v. 288; p. 198.

Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 144,951; July 19; v. 288; p. 623.

Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 145,232; July 26; v. 288, p. 817.

Thresbermen's Review Company, The, St. Joseph, Mich. Publication at present issued quarterly. No. 144,952; July 19; v. 288; p. 623.

Tlusty, James N., St. Joseph, Mo. School-tablets. No. 145,234; July 26; v. 288; p. 817.

Tiptoes Corporation, The, New York, N. Y. Metal plates for shoe-tips to protect them from wear. Nos. 145,235–6; July 26; v. 288; p. 817.

Titan Co. A/S., Christiania, Norway. Paint-pigments and paints containing titanium as a compound thereof. No. 144,954; July 19; v. 288; p. 623.

Titusville Forge Company, Titusville, Pa. Hydraulically pressed and hammered steel forgings. No. 145,237; July 26; v. 288; p. 817.

Tolman, John A., & Company, Chicago, Ill. Coffee. No. 144,483; July 5; v. 288; p. 195.

Toombs, F. A., & Co., Brooklyn, N. Y. Photograph-albums. No. 145,017; July 19; v. 288; p. 629.

Toro Manufacturing Company, Minneapolis, Minn. Tractors, traction-engines, &c. No. 144,640; July 12; v. 288; p. 426.

Toy Tinkers, The, Evanston, Ill. Games and toys. No. 144,484; July 5; v. 288; p. 195.

Traffic Publishing Company, The, New York, N. Y. Publications. No. 145,238; July 26; v. 288; p. 817.

Traylor Engineering & Manufacturing Co., Allentown, Pa.; New York, N. Y.; Chicago, Ill.; Los Angeles, Calif.; and Spokane, Wash. Stone-crushers, &c. No. 144,641; July 12; v. 288; p. 426.

Trenton Electric Conduit Co., Trenton, N. J. Fuse-plugs, electric switches, cut-outs, &c. No. 144,953; July 19; v. 288; p. 623.

Trenton Milling Company, Trenton, Ill. Wheat-flour. No. 144,642; July 12; v. 288; p. 426.

Tubbs Cordage Company, San Francisco, Calif. Rope made from fiber. No. 144,955; July 19; v. 288; p. 623.

Turmac Turkish Macedonian Tobacco Company, Arnhem, Netherlands. Cigarettes, cigars, tobacco. No. 144,643; July 12; v. 288; p. 426.

Turner, J. S., Manufacturing Co., Lowell, Mass. Leather boots, shoes, slippers, and moccasins. No. 145,239; July 26; v. 288; p. 817.

Ullmann, Bernhard, Co., Inc. New York, N. Y. Ribbon and textile fabrics in the piece, towels and toweling, tapestry, piece goods of cotton, linen, &c. No. 144,956; July 19; v. 288; p. 623.

Ullmann, Bernhard, Co., Inc., New York, N. Y. Yarns, threads, floss, useful for art-needlework, &c. No. 145,194; July 26; v. 288; p. 816.

Union horlogère S. A., Bienne, Switzerland. Watches. No. 144,644; July 12; v. 288; p. 426.

Union Metal Manufacturing Company, The, Canton, Ohio. Metal lamp-posts for electric lights. No. 144,957; July 19; v. 288; p. 623.

Union Rubber & Asbestos Co., Trenton, N. J. Rubber hose, rubber and asbestos packing, and brake-lining. No. 144,540; July 5; v. 288; p. 200.

Union Twist Drill Company. Athol and Mansfield, Mass. Die-holders, screw-plate guides, screw-plates, and screw-plate stocks. No. 145,197; July 26; v. 288; p. 816.

United States Chemical Co., Pittsburgh, Pa. Laxative tablet. No. 144,485; July 5; v. 288; p. 195.

United States Leather Company, The, New York, N. Y. Sole-leather. No. 144,486; July 5; v. 288; p. 195.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Waterproof and weatherproof coats. No. 144,958; July 19; v. 288; p. 623.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Golf-balls. No. 145,294; July 26; v. 288; p. 825.

United States Tack Co., New Bedford, Mass. Shoe-tacks, channel, clenching, and cobblers' nails. No. 145,198; July 26; v. 288; p. 816.

United States Tire Company, New York, N. Y. Rubber vehicle-tires. No. 145,018; July 19; v. 288; p. 629.

Universal Machine Company, The, Bowling Green, Ohio. Universal joints and bolt-cutters. No. 145,295; July 26; v. 288; p. 826.

Universal Stamping Machine Company, Stamford, Conn. Postmarking, metering, and other machines. No. 145,199; July 26; v. 288; p. 816.

Urban, George, Milling Company, Buffalo, N. Y. Wheat-flour. No. 144,959; July 19; v. 288; p. 623.

Urick, Willis E., Los Angeles, Calif. Fresh cantaloups, cauliflower, onions, tomatoes, and grapes. No. 144,960; July 19; v. 288; p. 623.

Vacuum Belting Company, Indianapolis, Ind. Belting. No. 144,961; July 19; v. 288; p. 623.

Valley Packing Company, Salem, Oreg. Packing-house products. No. 144,645; July 12, v. 288; p. 426.

Vandervoort Brothers, Incorporated, Buffalo, N. Y. Finger-rings. No. 144,962; July 19; v. 288; p. 622.

Victory Rubber Manufacturing Co., Atlanta, Ga. Rubber pneumatic tires. No. 145,200; July 26; v. 288; p. 816.

Viking Sign Company, Inc., New York, N. Y. Electrical advertising and directional signs of all kinds. No. 144,963; July 19; v. 288; p. 623.

Vogan Candy Company, Portland, Oreg. Candy. No. 144,964; July 19; v. 288; p. 623.

Vogel, Gustave, St. Louis, Mo. Hair-nets. No. 144,965; July 19; v. 288; p. 623.

Voigt Company, Philadelphia, Pa. Electric-lighting fixtures. No. 144,487; July 5; v. 288; p. 195.

Vollmer Warehouse & Milling Co., Vollmer, Idaho. Wheat-flour. No. 144,646; July 12; v. 288; p. 426.

Vortex Manufacturing Company, The, Cleveland, Ohio. Waterproof cement. No. 144,674; July 12; v. 288; p. 429.

Vryonis, Spero G., Bridgeport, Conn. Medicinal preparations. No. 144,488; July 5; v. 288; p. 195.

W. P. Tanner-Gross & Company, Inc., New York, N. Y. Cornmeal. No. 145,293; July 26; v. 288; p. 825.

Walcoff, Phil., & Co., Inc., New York, N. Y. Boys' outer clothing. No. 145,201; July 26; v. 288; p. 816.

Waldorf Paper Products Company, St. Paul, Minn. Plaster-board. No. 144,966; July 19; v. 288; p. 624.

Wallace, Scott & Co., Limited, Glasgow, Scotland. Suits and overcoats for men, women, and boys. No. 144,489; July 5; v. 288; p. 196.

Wanamaker, John, New York, N. Y. Soap. No. 144,967; July 19; v. 288; p. 624.

Ware Chemical Co., The, Dallas, Tex. Medicinal compound for the treatment of derangement of the stomach and bowels of infants. No. 144,490; July 5; v. 288; p. 196.

Washburn, Ira D., Company, The, Cincinnati, Ohio. Paints, enamels, varnishes, &c. No. 144,647; July 12; v. 288; p. 426.

Waterbury Felt Company, The, Skaneateles Falls, N. Y. Paper-makers' woolen felts and jackets. No. 144,968; July 19; v. 288; p. 624.

Watkins, J. W., & Co., Inc., McKenzie, Tenn. Cotton-pickers' sacks. No. 144,491; July 5; v. 288; p. 196.

Waugh, A. W., Fruit Co., Wilmington, Del., and Brooklyn, N. Y. Unfermented cider. No. 144,969; July 19; v. 288; p. 624.

Wechsler Barber Silk Co. Inc., New York, N. Y. Silk and silk-mixture fabrics in the piece. No. 144,696; July 19; v. 288; p. 615.

Wellman-Peck & Co., San Francisco, Calif. Foods. No. 144,970; July 19; v. 288; p. 624.

Wert Manufacturing Company, Chicago, Ill. Brick, building-block, &c. No. 145,296; July 26; v. 288; p. 826.

West End Brewing Co., The, Utica, N. Y. Non-intoxicating, cereal, maltless beverages. No. 144,492; July 5; v. 288; p. 196.

Westendorf, Donald R., Mount Clemens, Mich. Medicinal preparation. No. 144,648; July 12; v. 288; p. 426.

Western Dry Goods Co., Seattle, Wash. Clothing. No. 144,971; July 19; v. 288; p. 624.

Western Electric Company, Incorporated, New York, N. Y. Telephone apparatus. No. 144,493; July 5; v. 288; p. 196.

Western Electric Company, Incorporated, New York, N. Y. Friction-tape. No. 144,494; July 5; v. 288; p. 196.

Western Electric Company, New York, N. Y. Friction-tape. No. 144,649; July 12; v. 288; p. 426.

Western Grain Company, Fort Smith, Ark. Cornmeal. No. 144,495; July 5; v. 288; p. 196.

Western Petroleum Co., Incorporated, Chicago, Ill. Motor oil, cup and transmission greases, &c. No. 145,202; July 26; v. 288; p. 816.

Westfeldt Bros., New Orleans, La. Coffee. No. 144,972; July 19; v. 288; p. 624.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric stoves used in making paste. No. 144,675; July 12; v. 288; p. 429.

Whitaker-Glessner Company, Wheeling, W. Va. Iron and steel sheets. Nos. 145,297–8; July 26; v. 288; p. 826.

White, Alice M. M., Elmhurst, N. Y. Waterproof garments for small children. No. 144,973; July 19; v. 288; p. 624.

White Flame Light Co., Grand Rapids, Mich. Lamp-burners. No. 145,019; July 19; v. 288; p. 630.

White Rock Mineral Springs Company, Waukesha, Wis. and New York, N. Y. Mineral waters. No. 145,203; July 26; v. 288; p. 816.

White, S. S., Dental Manufacturing Company, Philadelphia, Pa. Toilet preparations, nerve-paste, &c. No. 144,676; July 12, v. 288; p. 429.

Whiteley, E. E., Temple, Tex. Shampoo. No. 144,496; July 5; v. 288; p. 196.

Whiting Paper Company, Holyoke, Mass. Bristol-boards. No. 144,974; July 19; v. 288; p. 624.

Whitman Electric Manufacturing Co., Whitman, Mass. Plug-fuses. No. 144,650; July 12; v. 288; p. 426.

Whittall, M. J., Associates, Worcester, Mass. Rugs and carpets of textile material. Nos. 144,541–2; July 5; v. 288; p. 200.

Whyt E naml Specialty Co. Inc., Brooklyn, N. Y. Bath-room-fixtures of enameled ware. Nos. 145,204–5; July 26; v. 288; p. 816.

Wichita Mill and Elevator Company, Wichita Falls, Tex. Wheat-flour. No. 144,975; July 19; v. 288; p. 624.

Wichita Motors Company, Wichita Falls, Tex. Motor-trucks. No. 145,020; July 19; v. 288; p. 630.

Wildstein, Morytz H., Rockaway Beach, N. Y. Bread, cake, and pastries. No. 144,977; July 19; v. 288; p. 624.

Willadsen, Emil, Hanover township, Morris county, N. J. Canned cultured milk. No. 145,206; July 26; v. 288; p. 816.

Willard Storage Battery Company, Cleveland, Ohio. Storage batteries and parts thereof. No. 144,497; July 5; v. 288; p. 196.

William Edwards Company, The, Cleveland, Ohio. Olives, catsup, salad-dressing, chilli, mustard, &c. No. 144,753; July 19; v. 288; p. 617.

Williams, Frank B., deceased; M. E. Williams, S. L. Hanson, and P. C. Brown, executors, assignors to I. B. Williams and Sons, Dover, N. H. Rawhide side laceleather. No. 145,207; July 26; v. 288; p. 816.

Williams, I. B., and Sons. (See Williams, Frank B., assignor.)

Williams, J. B., Company, The, Glastonbury, Conn. Shaving-cream in the nature of soap, shaving-stick, and liquid soap for shampoo. No. 144,976; July 19; v. 288; p. 624.

Williams, Mary E., *et al.*, executors. (See Williams, Frank B.)

Willits, Ledru C., Mount Pleasant, Iowa. Live stock. No. 144,498; July 5; v. 288; p. 196.

Wilson, Eugene S., Houston, Tex. Cigars. No. 145,299; July 26; v. 288; p. 826.

Wilson, H. A., Company, The, Newark, N. J. Electrical appliances. No. 144,651; July 12; v. 288; p. 426.

Wilson Rubber Company, The, Canton, Ohio. Rubber gloves. Nos. 145,021–3; July 19; v. 288; p. 630.

Wohl, M. J., & Co. Inc., New York and Long Island City, N. Y. Electric-arc lamps. No. 144,978; July 19; v. 288; p. 624.

Wolff, H., & Co., New York, N. Y. Imitation-pearl-bead necklaces. No. 144,979; July 19; v. 288; p. 624.

Wood, A. A., Sons & Company, Atlanta, Ga. Files. No. 145,300; July 26; v. 288; p. 826.

Wood Turret Machine Co., Brazil, Ind. Turret-lathes and screw-machines. No. 145,301; July 26; v. 288; p. 826.

Woodwind Company, The, New York, N. Y. Mouthpieces and reeds for clarinets and saxophones. No. 144,980; July 19; v. 288; p. 624.

Woodworth, Claudius C., Lodi, Calif. Fresh deciduous fruits. No. 144,499; July 5; v. 288; p. 196.

Worcester Pressed Steel Company, Worcester, Mass. Hot and cold rolled strip-steel. No. 145,208; July 26; v. 288; p. 816.

Wortendyke Manufacturing Co., Richmond, Va. Toilet-paper, paper napkins, and towels. No. 144,500; July 5; v. 288; p. 196.

Wrigley, Wm., jr., Company, Chicago, Ill. Chewing-gum. No. 144,501; July 5; v. 288; p. 196.

Wuest & Schrader, Van Nuys, Calif. Storage batteries. No. 144,652; July 12; v. 288; p. 426.

Wyeth, George A., New York, N. Y. Bottle-openers and bottle-cap removers. No. 145,210; July 26; v. 288; p. 817.

Wynne, Oliver, Norfolk, Va. Lard substitute. No. 145,210; July 26; v. 288; p. 817.

Wynne, Oliver, Norfolk, Va. Lard substitute composed of cotton-seed oil and other ingredients. No. 145,213; July 26; v. 288; p. 817.

Yancey, George T., New York, N. Y. Typewriter-ribbons and carbon-paper. No. 144,503; July 5; v. 288; p. 196.

Yangtze Corporation, New York, N. Y. Tea. No. 144,981; July 19; v. 288; p. 624.

Zingale, Joseph T., Brooklyn, N. Y. Candy laxative. No. 144,504; July 5; v. 288; p. 196.

Zipperer, Christen E., Statenville, Ga. Salve for cuts, bruises, sore throat, fever-blisters. No. 144,653; July 12; v. 288; p. 426.

Zuckerman, Herman, Los Angeles, Calif. Remnant-tags used for tagging remnants of all kinds. No. 145,214; July 26; v. 288; p. 817.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Acme Broom Company, Chicago, Ill. "Handi-Hanger Broom." (For Brooms and Whisk-Brooms.) No. 23,120; July 26; v. 288; p. 827.

American Fastener Co., Waterbury, Conn. "Teneo." (For Snap-Fasteners.) No. 23,052; July 5; v. 288; p. 201.

American Hosiery Company, New Britain, Conn. "Amho Heath Jacket." (For Heath Jackets. Garments for Sportsmen.) No. 23,053; July 5; v. 288; p. 201.

Beach, H. D., Co., The, Coshocton, Ohio. "Ward's Cake." (For Cake.) No. 23,054; July 5; v. 288; p. 201.

Belch, Paul F., Company, Bloomington, Ill. "Belch's Chocolate Milk Nougat." (For Candy.) No. 23,055; July 5; v. 288; p. 201.

Belle Meade Butter Company. (See Menasha Printing and Carton Company, assignor.)

Berliner, Emile, Washington, D. C. "Sweet Grenna." (For a Prepared Cereal Food.) No. 23,056; July 5; v. 288; p. 201.

Bon Santé Company, De Land, Fla. "Bon Santé Baume, a Home Treatment for Hemorrhoids." (For Boxes Containing a Balm for Hemorrhoids.) No. 23,057; July 5; v. 288; p. 201.

Bon Santé Company, De Land, Fla. "Bon Santé Glycerine Tonic." (For a General Systemic Tonic.) No. 23,058; July 5; v. 288; p. 201.

Bon Santé Company, De Land, Fla. "Bon Santé Laxative." (For Boxes Containing a Laxative Medicine.) No. 23,059; July 5; v. 288; p. 201.

Bon Santé Company, De Land, Fla. "Bon Santé Nerve Tonic Tablets." (For Nerve-Tonic Tablets for Tired Nerves.) No. 23,060; July 5; v. 288; p. 201.

Bon Santé Company, De Land, Fla. "Bon Santé Baume, Good Health Balm, a Home Treatment for Diseases of Women." (For Boxes Containing a Medicine for Diseases of Women.) No. 23,061; July 5; v. 288; p. 201.

Bon Santé Company, De Land, Fla. "Bon Santé Ointment." (For Boxes Containing Ointment.) No. 23,121; July 26; v. 288; p. 827.

Bon Santé Company, De Land, Fla. "Bon Santé Baume (Good Health Balm)". (For Boxes Containing Medicine for Stomach Trouble.) No. 23,122; July 26; v. 288; p. 827.

California Grape Products Co., Ukiah, Calif. "Calgrape." (For Concentrated Grape Products in the Form of Grape Syrups.) No. 23,123; July 26; v. 288; p. 827.

Candi-Lax Mfg. Company, The, Cincinnati, Ohio. "Helm's Candi-Lax." (For Fruit Laxative.) No. 23,062; July 5; v. 288; p. 201.

Candi-Lax Mfg. Company, The, Cincinnati, Ohio. "Helm's Candi-Lax." (For Fruit Laxative.) No. 23,063; July 5; v. 288; p. 201.

Cargill Brothers, Washington, D. C. "Miracle Washing Crystal." (For Washing Clothes, Windows, Woodwork, Dishes, and for Cleaning Purposes.) No. 23,064; July 5; v. 288; p. 201.

Certified Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)

Choc'-Ō-La Co., San Francisco, Calif. "Choc'-Ō-La." (For Non-Alcoholic Beverage.) No. 23,114; July 12; v. 288; p. 430.

Coffin, Geo. E., Shoe Co., Inc., Lynn, Mass. "Acme Arch Grip Shoe." (For Shoes.) No. 23,065; July 5; v. 288; p. 201.

Conover, Harvey, Chicago, Ill. "Oasis." (For Beverages.) No. 23,066; July 5; v. 288; p. 201.

Cooper, Frank J., San Francisco, Calif. "Trustment." (For Printed Matter, Insurance-Policies, Shares of Stock, Bonds, and other Certificates of Indebtedness.) No. 23,124; July 26; v. 288; p. 827.

Dodge, Sweeney & Co., San Francisco, Calif. "Dodge." (For Canned Peaches.) No. 23,067; July 5; v. 288; p. 201.

Dodge, Sweeney & Co., San Francisco, Calif. "Dodge." (For Canned Peas.) No. 23,068; July 5; v. 288; p. 201.

E-Z Waist Company, The, New York, N. Y. "Children's Grey Sleeping Garment." (For Sleeping-Garments.) No. 23,069; July 5; v. 288; p. 201.

Fadden, M. F., & Sons, Inc. (See Menasha Printing and Carton Company, assignor.)

Federal Underwear Co., New York, N. Y. "Smiling Baby." (For Infants' Bath-Robes.) No. 23,125; July 26; v. 288; p. 827.

First National Pharmacy, Lehighton, Pa. "First National Tasteless Solution of Epsom Salt." (For Bottles Containing a Tasteless Solution of Epsom Salt.) No. 23,070; July 5; v. 288; p. 201.

Frick, Phillip S., Oswego, Kans. "Rat Fire." (For a Rat-Poison.) No. 23,071; July 5; v. 288; p. 201.

Fussell-Young Ice Cream Company. (See Menasha Printing and Carton Company, assignor.)

Garden Chemical Co., Inc., New York, N. Y. "Melrosine." (For Insecticides for the Destruction of Rose-Bugs.) No. 23,126; July 26; v. 288; p. 827.

Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Fan Belts." (For Fan-Belts.) No. 23,072; July 5; v. 288; p. 201.

Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Ford Fan Belts." (For Fan-Belts.) No. 23,073; July 5; v. 288; p. 201.

Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Ford Fan Belts." (For Fan-Belts.) No. 23,074; July 5; v. 288; p. 201.

Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Fan Belts for Tractors." (For Fan-Belts.) No. 23,075; July 5; v. 288; p. 201.

Gilmer, L. H., Company, Philadelphia, Pa. "Gilmer Woven Endless Fan Belts for Trucks." (For Fan-Belts.) No. 23,076; July 5; v. 288; p. 201.

Gordon Chocolate Co., The, Cincinnati, Ohio. "Gordon Milk and Chocolate Supreme." (For Chocolate Bars.) No. 23,127; July 26; v. 288; p. 827.

Gordon Chocolate Company, The, Cincinnati, Ohio. "Chocolate Milk Sugar Only." (For Candy.) No. 23,128; July 26; v. 288; p. 827.

Gordon Chocolate Company, The, Cincinnati, Ohio. "Better Blocks." (For Candy.) No. 23,129; July 26; v. 288; p. 827.

Heileman, G., Brewing Co., La Crosse, Wis. "Heileman's New Style Lager." (For Cereal Beverages.) No. 23,130; July 26; v. 288; p. 827.

Heller, B., & Co., Chicago, Ill. "$1 000 00 Guaranteed Roach Killer." (For Cartons Containing Cans of a Rouch-Killer.) No. 23,077; July 5; v. 288; p. 201.

Heller, B., & Co., Chicago, Ill. "Aseptifume." (For a Preparation Used to Destroy Obnoxious Odors and for Purifying the Air in Coolers, Rendering-Rooms, and Hide-Rooms.) No. 23,078; July 5; v. 288; p. 201.

Heller, B., & Co., Chicago, Ill. "Heller's Sanitary Fluid." (For Containers Holding Heller's Sanitary Fluid, a Germicidal and Antiseptic Preparation.) No. 23,079; July 5; v. 288; p. 201.

Heller, B., & Co., Chicago, Ill. "$1 000 00 Guaranteed Rat and Mice Killer." (For Cans Containing a Guaranteed Rat and Mice Killer.) No. 23,131; July 26; v. 288; p. 827.

Heller, B., & Co., Chicago, Ill. "$1 000 00 Guaranteed Ant-Bane." (For Cans Containing Guaranteed Ant-Killer.) No. 23,132; July 26; v. 288; p. 827.

Heller, B., & Co., Chicago, Ill. "$1 000.00 Guaranteed Roach Killer." (For Cans Containing a Guaranteed Roach-Killer.) No. 23,133; July 26; v. 288; p. 827.

Heller, B., & Co., Chicago, Ill. "Deodorine." (For Receptacles Containing Deodorine.) No. 23,134; July 26; v. 288; p. 827.

Heller, B., & Co., Chicago, Ill. "I-X-L." (For Receptacles Containing I-X-L, a Cleansing Preparation.) No. 23,135; July 26; v. 288; p. 827.

Heller, B., & Co., Chicago, Ill. "Snow." (For Receptacles Containing Snow, a Preparation for Use in the Manufacture of Ice-Cream.) No. 23,136; July 26; v. 288; p. 827.

Heller, B., & Co., Chicago, Ill. "Varn-I-Glo." (For Cans Containing Varn-I-Glo, a Furniture-Polish.) No. 23,137; July 26; v. 288; p. 827.

Herpicide Company, The, Detroit, Mich. "A Delightful Hair Dressing." (For the Treatment of Dandruff and Itching Scalp.) No. 23,115; July 12; v. 288; p. 430.

Herpicide Company, The, Detroit, Mich. "A Delightful Hair Dressing." (For the Treatment of Dandruff and Itching Scalp.) No. 23,116; July 12; v. 288; p. 430.

Hoefner, A., & Sons, Buffalo, N. Y. "White Naphtha Borax Soap." (For Soap.) No. 23,138; July 26; v. 288; p. 827.

Home Products, Inc., Rahway, N. J. "Egg-Saver." (For a Solution of Sodium Silicate.) No. 23,139; July 26; v. 288; p. 827.

Jackson Auto Radiator Co., Chicago, Ill. "Jackson Core." (For Automobile-Radiator Cores.) No. 23,080; July 5; v. 288; p. 201.

Jersey Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)

Junn & McCormack, New York, N. Y. "Pureza." (For Condensed Milk.) No. 23,117; July 12; v. 288; p. 430.

Kothlow, G. H. (See Menasha Printing and Carton Company, assignor.)

Log Cabin Products Company, The, St. Paul, Minn. "Towle's Wigwam." (For Syrup.) No. 23,081; July 5; v. 288; p. 201.

Mars, Jesse B., Providence, R. I. "Mar-Randa." (For Hair-Shampoo.) No. 23,140; July 26; v. 288; p. 827.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Certified Ice Cream Company, Chicago, Ill. "Certified Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,082; July 5; v. 288; p. 201.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Patton Creamery Company, Springfield, Mo. "Premier Butter." (For Cartons Containing Butter.) No. 23,083; July 5; v. 288; p. 201.

Menasha Printing and Carton Company, Menasha, assignor to G. H. Kothlow, Edgerton, Wis. "Kothlow's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,084; July 5; v. 288; p. 201.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Wright & Parker, Detroit, Mich. "Gold Chain." (For Cartons Containing Butter.) No. 23,085; July 5; v. 288; p. 201.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Belle Meade Butter Company, Nashville, Tenn. "Belle Meade Butter." (For Cartons Containing Butter.) No. 23,086; July 5; v. 288; p. 201.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Jersey Ice Cream Company, Chicago, Ill. "Jersey." (For Cartons Containing Ice-Cream.) No. 23,087; July 5; v. 288; p. 201.

Menasha Printing and Carton Company, Menasha, Wis., assignor to National Dairy Company, Providence, R. I. "Sunset Nut-Margarine." (For Cartons Containing Oleomargarin.) No. 23,141; July 26; v. 288; p. 827.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Fussell-Young Ice Cream Company, Washington, D. C. "Fussell's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,142; July 26; v. 288; p. 827.

Menasha Printing and Carton Company, Menasha, Wis., assignors to M. F. Fadden & Sons, Inc., Scranton, Pa. "Fadden's Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,143; July 26; v. 288; p. 827.

Milwaukee Paper Box Company, Milwaukee, Wis. "Delcolates." (For Boxes Containing Chocolate Creams, Milk-Chocolates, Nut Centers, and Nougats.) No. 23,088; July 5; v. 288; p. 202.

Milwaukee Paper Box Company, Milwaukee, Wis. "Favorite Chocolates." (For Boxes Containing Chocolate Candy.) No. 23,089; July 5; v. 288; p. 202.

Milwaukee Paper Box Company, Milwaukee, Wis. "Chocolate Coated Dates." (For Boxes Containing Chocolate-Coated Dates.) No. 23,090; July 5; v. 288; p. 202.

Mint Products Company, Inc., Port Chester, N. Y. "Life Saver Pats Butterscotch." (For Candies with a Butter-Scotch Flavor.) No. 23,091; July 5; v. 288; p. 202.

Mint Products Company, Inc., Port Chester, N. Y. "Life Saver Pats Lemon." (For Candies with a Lemon Flavor.) No. 23,092; July 5; v. 288; p. 202.

Mint Products Company, Inc., Port Chester, N. Y. "Life Saver Pats Orange." (For Candies with an Orange Flavor.) No. 23,093; July 5; v. 288; p. 202.

Mint Products Company, Inc., Port Chester, N. Y. "Life Saver Pats Lime." (For Candies with a Lime Flavor.) No. 23,094; July 5; v. 288; p. 202.

Monarch Bitters Co., Buffalo, N. Y. "Sherry Syrup." (For Syrups for Mixing Soft Drinks.) No. 23,095; July 5; v. 288; p. 202.

Monarch Bitters Co., Buffalo, N. Y. "Port Syrup." (For Syrups for Mixing Soft Drinks.) No. 23,096; July 5; v. 288; p. 202.

Morle, Richard G., Brooklyn, N. Y. "Nutties." (For Candy of Nut Variety.) No. 23,144; July 26; v. 288; p. 827.

National Dairy Company. (See Menasha Printing and Carton Company, assignors.)

Oshkosh Seed Company, Oshkosh, Wis. "Checker Insecticide." (For Garden-Insecticides.) No. 23,145; July 26; v. 288; p. 827.

Patton Creamery Company. (See Menasha Printing and Carton Company, assignor.)

Peyton Paper Co., Duluth, Minn. "Peyton Linen Lawn." (For Correspondence-Paper.) No. 23,118; July 12; v. 288; p. 430.

Poor, Charles L., Co., New York, N. Y. "Kisaki." (For Nainsook.) No. 23,097; July 5; v. 288; p. 202.

Robertson & Sons Shoe Repairers, Inc., New York, N. Y. "Rubber Shoe Repair Patch." (For Repair-Patches for Rubber Footwear.) No. 23,098; July 5; v. 288; p. 202.

Ruch-Drompp Grocery Co., Logansport, Ind. "Kiddie Knead." (For Bread.) No. 23,099; July 5; v. 288; p. 202.

Sargent-Gerke Co., The, Indianapolis, Ind. "Sargent Paint." (For Paint.) No. 23,100; July 5; v. 288; p. 202.

Schoettes, George, Joliet, Ill. "Joliet's H. S. Finest Cigar." (For Cigars.) No. 23,101; July 5; v. 288; p. 202.

Shamie Bros., Detroit, Mich. "Red Arrow Brand." (For Citrus Fruits.) No. 23,146; July 26; v. 288; p. 827.

Shedd, Lilly G., Detroit, Mich. "Liquid Salatone." (For a Remedy for Epileptic Fits.) No. 23,102; July 5; v. 288; p. 202.

Shepard Fruit Products Company, Wenatchee, Wash. "Mrs. Shepard's Apple Flakes." (For Packages or Containers Containing Flaked and Cooked Apples.) No. 23,103; July 5; v. 288; p. 202.

Sherratt, Ralph S., St. Louis, Mo. "Malted-Mil-Krisps." (For a Pop-Corn Confection.) No. 23,104; July 5; v. 288; p. 202.

Smith, J. P., Shoe Co., Chicago, Ill. "Smith Smart Shoes." (For Shoes.) No. 23,105; July 5; v. 288; p. 202.

Star Merchandise Company, New York, N. Y. "Lasher's Moose Yarns." (For Woolen and Worsted Yarns.) No. 23,147; July 26; v. 288; p. 827.

Starley Drug Company, Tyler, Tex. "Starley's Rheumatic Remedy." (For a Remedy for Rheumatism.) No. 23,119; July 12; v. 288; p. 430.

Steidle, Joseph P., Wilkes-Barre, Pa. "A Wax for a Good Dancing Floor." (For a Preparation Specially Adapted for Use on Floors.) No. 23,106; July 5; v. 288; p. 202.

Stern, Joseph, & Sons, Inc., New York, N. Y. "Hudson Bacon." (For Bacon.) No. 23,148; July 26; v. 288; p. 827.

Stern, Joseph, & Sons, Inc., New York, N. Y. "Hudson Boiled Ham." (For Boiled Ham.) No. 23,149; July 26; v. 288; p. 827.

Stern, Joseph, & Sons, Inc., New York, N. Y. "Hudson Ham." (For Ham.) No. 23,150; July 26; v. 288; p. 827.

Stevens Manufacturing Co., Fall River, Mass. "Stevens Kros Stitch Bedspread." (For Bedspreads.) No. 23,107; July 5; v. 288; p. 202.

Sun River Chemical Company, New York, N. Y. "Sun River Ointment." (For Ointment.) No. 23,108; July 5; v. 288; p. 202.

Thompson, Mrs. Ida, Dunton, N. Y. "Mrs. Thompson's Home Dentist." (For a Preparation of Olive-Oil 99% and Pure Vanilla 1% for toothache.) No. 23,109; July 5; v. 288; p. 202.

Thoreson, Peter, Baldi, Wash. "Wetproof." (For Shoe-Dressing.) No. 23,110; July 5; v. 288; p. 202.

Trans-Pacific Trading Company, Inc., Chicago, Ill. "Apache." (For Cigars.) No. 23,151; July 26; v. 288; p. 827.

Woodward & Cochey, Inc., Lynn, Mass. "Boulevard." (For Shoe-Trimmings and Top-Facing.) No. 23,111; July 5; v. 288; p. 202.

Wright & Parker. (See Menasha Printing and Carton Company, assignor.)

Wrigley, Wm., Jr. Company, Chicago, Ill. "Wrigley's Peppermint Chewing Gum." (For Chewing-Gum.) Nos. 23,112–13; July 5; v. 288; p. 202.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Acme Packing Co., Chicago, Ill. "Virginies Will Delight You." (For Advertising Purposes for Canned Wheat-Patties.) No. 5,654; July 5; v. 288; p. 203.

Acme Packing Company, Chicago, Ill. "Corned Beef You Will Like." (For Advertising Purposes for Canned Corned Beef.) No. 5,681; July 26; v. 288; p. 828.

American Lead Pencil Company, New York, N. Y. "The Largest Selling Quality Pencil in the World." (For Advertising Purposes for Lead-Pencils.) Nos. 5,655–6; July 5; v. 288; p. 203.

B. V. D. Company, The, New York, N. Y. "B. V. D. 1921 Youths' Union Suits." (For Advertising Purposes for Athletic Underwear.) No. 5,658; July 5; v. 288; p. 203.

B. V. D. Company, The, New York, N. Y. "No Underwear is B. V. D. Without This Red Woven Label." (For Advertising Purposes for Athletic Underwear.) No. 5,659; July 5; v. 288; p. 203.

Baltimore Commutator Company, The, Baltimore, Md. "Here It Is!" (For Commutators.) No. 5,675; July 12; v. 288; p. 430.

Beech-Nut Packing Co., Canajoharie, N. Y. "You Can't Mistake the Flavor." (For Peanut-Butter.) No. 5,657; July 5; v. 288; p. 203.

Climax Specialties Co. Inc., The, Jersey City, N. J. "No-brush." (For Shoe-Polish.) No. 5,660; July 5; v. 288; p. 203.

Genesee Pure Food Company, The, Le Roy, N. Y. "I Wish Dinner'd Hurry." (For Advertising Purposes for Jell-O, a Dessert.) No. 5,661; July 5; v. 288; p. 203.

Genesee Pure Food Company, The, Le Roy, N. Y. "The 1921 Orange Jell-O." (For Advertising Purposes for Orange Jell-O, a Dessert Preparation.) No. 5,662; July 5; v. 288; p. 203.

Genesee Pure Food Company, The, Le Roy, N. Y. "Mother's Birthday." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,663; July 5; v. 288; p. 203.

Genesee Pure Food Company, The, Le Roy, N. Y. "Price's Grown-Ups." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,682; July 26; v. 288; p. 828.

Genesee Pure Food Company, The, Le Roy, N. Y. "After the Hike." (For Advertising Jell-O, a Dessert Preparation.) No. 5,683; July 26; v. 288; p. 828.

Hardeman, J. T., Hat Co., Seattle, Wash. "Hardeman Hats Better Hats for Men." (For Hats.) No. 5,664; July 5; v. 288; p. 203.

Hares Motors, Inc., New York, N. Y. "We Shall Keep Faith." (For Advertising Purposes for Motors.) No. 5,676; July 12; v. 288; p. 430.

Hares Motors, Inc., New York, N. Y. "We Shall Keep Faith." (For Advertising Purposes for Motor-Cars.) No. 5,677; July 12; v. 288; p. 430.

Heinz, H. J., Co., Pittsburgh, Pa. "Good Foods for Young Appetites Heinz Oven Baked Beans." (For Advertising Purposes for Heinz Oven-Baked Beans.) No. 5,665; July 5; v. 288; p. 203.

Heinz, H. J., Co., Pittsburgh, Pa. "Makes Eating More Fun." (For Heinz Apple-Butter.) No. 5,666; July 5; v. 288; p. 203.

Heinz, H. J., Co., Pittsburgh, Pa. "'Here's a Meal Already Cooked' Heinz Spaghetti Cooked Ready to Serve." (For Heinz Cooked Spaghetti.) No. 5,667; July 5; v. 288; p. 203.

Lorillard, P., Company, Inc., New York, N. Y. "It Aint Toothache—It's Climax." (For Chewing-Tobacco.) No. 5,671; July 5; v. 288; p. 203.

Miller Rubber Co., The, Akron, Ohio. "I am Penalized If One Comes Back." (For Advertisement of Tires.) No. 5,668; July 5; v. 288; p. 203.

O'Bryan Brothers, Inc., Nashville, Tenn. "Duck Head." (For Overalls.) No. 5,669; July 5; v. 288; p. 203.

Palmolive Company, The, Milwaukee, Wis. "The Cosmetic Oils of Cleopatra Combined in a Cake of Soap." (For Advertising Purposes for Palmolive Soap.) No. 5,670; July 5; v. 288; p. 203.

Palmolive Company, The, Milwaukee, Wis. "The Girl You Stop to Look At." (For Palmolive Soap.) No. 5,678; July 12; v. 288; p. 430.

Robertson & Sons Shoe Repairers, Inc., New York, N. Y. "Old Rubbers Made New." (For Advertising Purposes for Repair-Patches for Rubber Footwear.) No. 5,672; July 5; v. 288; p. 203.

Rosevear, William B., Jr., Detroit, Mich. "Crop Test." (For Advertising Purposes for Flower and Vegetable Seeds, Shrubs, Plants, and Trees.) No. 5,673; July 5; v. 288; p. 203.

Urie, William A., Los Angeles, Calif. "Acme Dial Planchette No. 1." (For Advertising Purposes for Planchettes.) No. 5,674; July 5; v. 288; p. 203.

Westinghouse Union Battery Company, Swissvale, Pa. "Battery Service." (For Advertising Purposes for Secondary Batteries.) No. 5,679; July 12; v. 288; p. 430.

Westinghouse Union Battery Company, Swissvale, Pa. "Westinghouse Batteries." (For Advertising Purposes for Secondary Batteries.) No. 5,680; June 12; v. 288; p. 430.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED DURING THE MONTH OF JULY, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Accelerator. J. H. M. Michon. No. 1,383,326; July 5; v. 288; p. 14.
Account-register. S. N. Wheeler. No. 1,383,890; July 5; v. 288; p. 121.
Acetaldehyde, Manufacturing. H. W. Matheson. No. 1,384,842; July 19; v. 288; p. 459.
Acetone, Manufacture of. E. Ricard. No. 1,385,888; July 26; v. 288; p. 749.
Acetylene-gas and pressure generator. A. F. Habenicht. No. 1,383,464; July 5; v. 288; p. 43.
Acid phosphate, Apparatus for manufacture of. R. T. Gaston. No. 1,385,126; July 19; v. 288; p. 518.
Acid phosphate or superphosphate, Apparatus for manufacturing. W. T. Doyle. No. 1,383,911; July 5; v. 288; p. 135.
Acid phosphate or superphosphate, Manufacturing. W. T. Doyle. No. 1,383,912; July 5; v. 288; p. 135.
Acid sodium pyro phosphate, Manufacture of. A. Kelly. No. 1,383,990; July 5; v. 288; p. 152.
Acoustic device. H. C. Egerton. No. 1,383,700. July 5; v. 288; p. 92.
Action-bracket. A. G. Gulbransen. No. 1,385,076; July 19; v. 288; p. 507.
Actuating mechanism. D. Karamanous. No. 1,384,135; July 12; v. 288; p. 231.
Adjustable air-separator. W. G. Clark. No. 1,383,984; July 5; v. 288; p. 151.
Adjustable seat. J. P. Eakin. No. 1,385,742; July 26; v. 288; p. 719.
Adjustable stand. A. V. Rufle. No. 1,384,676; July 12; v. 288; p. 345.
Adjustable strut. J. E. Hodges. No. 1,385,546; July 26; v. 288; p. 679.
Adjustable tappet-wrench. R. P. Reynolds. No. 1,385,228; July 19; v. 288; p. 536.
Advertisement device. C. H. Waithman. No. 1,385,194; July 19; v. 288; p. 532.
Advertising device. R. S. Carter. No. 1,385,665; July 26; v. 288; p. 704.
Advertising device. J. Hull. No. 1,385,211; July 19; v. 288; p. 536.
Advertising device. C. McGinn. No. 1,383,828; July 5; v. 288; p. 118.
Advertising device. G. E. McMaster. No. 1,383,413; July 5; v. 288; p. 33.
Advertising device. O. P. Renz. No. 1,384,568; July 12; v. 288; p. 321.
Advertising device, Time-controlled. T. J. Mosure. No. 1,384,479; July 12; v. 288; p. 302.
Advertising novelty. G. H. Rowles. No. 1,384,408; July 12; v. 288; p. 287.
Advertising-sign. D. Sternbergh. No. 1,383,439; July 5; v. 288; p. 38.
Aerial bombs, Safety-release wire-holder for. H. D. Weed. No. 1,385,598; July 26; v. 288; p. 690.
Aerial machines, Control for. A. F. Blaslar. No. 1,385,658; July 26; v. 288; p. 702.
Aerial machines, Control for. A. F. Blaslar. No. 1,385,858; July 26; v. 288; p. 742.
Aerial signal-light. H. L. M. J. Bénard. No. 1,384,659; July 12; v. 288; p. 341.
Aerial vehicles, Electroplated propeller for. M. C. St. John. No. 1,385,802; July 26; v. 288; p. 732.
Aeroplane. J. A. Allardyce. No. 1,383,509; July 5; v. 288; p. 52.
Aeroplane. G. Hrib. No. 1,385,786; July 26; v. 288; p. 728.
Aeroplane. C. F. Jenkins. No. 1,383,465; July 5; v. 288; p. 42.
Aeroplane. S. Marsek. No. 1,383,652; July 5; v. 288. p. 81.
Aeroplane bomb-sight. G. E. Beggs. No. 1,383,969; July 5; v. 288; p. 147.
Aeroplane fabric. C. P. Schlegel. No. 1,384,099; July 12; v. 288; p. 224.
Aeroplanes, Air-current indicator for. L. B. Sperry. No. 1,384,807; July 19; v. 288; p. 464.
Aeroplanes, Fire-extinguisher for. W. C. Clark. No. 1,383,788; July 5; v. 288; p. 110.
Aeroplanes from ships, Device for launching. G. Anderson. No. 1,384,036; July 12; v. 288; p. 211.
Aeroplanes, Ground-speed device for. B. A. Proctor. No. 1,383,660; July 5; v. 288; p. 83.
Agitator. M. M. Fredel and W. Bosanko. No. 1,383,921; July 5; v. 288; p. 137.
Agricultural implement. C. H. Gardner, Jr. No. 1,383,294; July 5; v. 288; p. 7.
Agricultural machine, Motor. A. T. Brown. No. 1,385,041; July 19; v. 288; p. 499.
Air and water heater, Combined. W. M. Keighler. No. 1,384,764; July 19; v. 288; p. 443.
Air-brake safety appliance. H. C. Stokes. No. 1,385,160; July 19; v. 288; p. 525.
Air-compressor. J. Noguera. No. 1,383,657; July 5; v. 288; p. 82.
Air-feeding device. J. Y. King. No. 1,384,838; July 19; v. 288; p. 458.
Air-heater. E. T. Whiting. No. 1,385,651; July 26; v. 288; p. 701.
Air in compartments, Method of and apparatus for controlling the condition of. W. B. S. Whaley. No. 1,384,367; July 12; v. 288; p. 270.
Air-lift booster. J. Oliphant. No. 1,385,708; July 26; v. 288; p. 713.
Air-lift system. J. Oliphant. No. 1,385,706; July 26; v. 288; p. 712.
Air-lift system. J. Oliphant. No. 1,385,707; July 26; v. 288; p. 712.
Air-moistener. J. F. Maloney. No. 1,384,702; July 12; v. 288; p. 350.
Air-separator. T. J. Sturtevant. No. 1,383,441; July 5. v. 288; p. 38.
Air-separator. T. J. Sturtevant. No. 1,384,929; July 19; v. 288; p. 476.
Air-separator. T. J. Sturtevant. No. 1,385,025; July 19; v. 288; p. 497.
Air-separator. T. J. Sturtevant. No. 1,385,846; July 26; v. 288; p. 740.
Air-separator. T. J. Sturtevant. No. 1,385,847; July 26; v. 288; p. 740.
Air-separator. T. J. Sturtevant. No. 1,385,848; July 26; v. 288; p. 741.
Aircraft, Ground-speed meter for. R. L. Chamberlain. No. 1,385,776; July 26; v. 288; p. 726.
Airplane-body. J. L. Shankland. No. 1,384,784; July 19; v. 288; p. 447.
Airplane landing and launching mechanism. J. S. Black. No. 1,383,595; July 5; v. 288; p. 70.
Airplane-screw. C. A. de Giers. No. 1,384,308; July 12; v. 288; p. 266.
Airplanes and other lighter-than-air ships, Adjustable pitch and reversible propeller for. S. W. Carter. No. 1,383,388; July 5; v. 288; p. 27.
Airships, Drift-compensating device for. C. G. Hall. No. 1,385,784; July 26; v. 288; p. 728.
Alarm: *See*—
Burglar-alarm.
Incubator-alarm.
Alarm-signal. V. P. Fedoroff. (Reissue.) No. 15,150; July 12; v. 288; p. 356.
Alcohol from gas containing ethylene, Production of. C. A. Basore. No. 1,385,515; July 26; v. 288; p. 673.
Alcohols, Manufacturing flavoring extracts with higher. B. H. Smith and J. R. Eoff, Jr. No. 1,384,680; July 12; v. 288; p. 345.
Alloy. C. J. Fink. No. 1,384,056; July 12; v. 288; p. 215.
Alloy. F. Milliken. No. 1,385,223; July 19; v. 288; p. 538.
Alloy and producing the same, Metal. J. B. Grenagle. No. 1,385,072; July 19; v. 288; p. 507.
Ammonia-soda process. J. H. MacMahon. No. 1,384,141; July 12; v. 288; p. 232.
Amplifier. S. E. Adair. No. 1,383,275; July 5; v. 288; p. 3.
Amusement device. C. P. La Batt. No. 1,384,963; July 19; v. 288; p. 483.
Amusement device, Submersible. H. Gernsback. No. 1,384,750; July 19; v. 288; p. 440.
Anchor. A. B. Chance. No. 1,384,825; July 19; v. 288; p. 455.
Anchor. A. McNab. No. 1,385,921; July 26; v. 288; p. 755.
Anchor, Mushroom. W. R. Case. No. 1,384,824; July 19; v. 288; p. 455.
Anhydrous antimony trichlorid, Making. O. C. Ralston. No. 1,384,918; July 19; v. 288; p. 474.

Animal-trap. W. B. Gilmore. No. 1,384,890; July 19; v. 288; p. 468.
Animal-trap. J. Gorniak. No. 1,384,611; July 12; v. 288; p. 330.
Animal-trap. T. Kalemba. No. 1,384,698; July 12; v. 288; p. 349.
Antifreeze-hydrants, Supply and drain cap for. K. Murdock. No. 1,385,572; July 26; v. 288; p. 685.
Antileak composition. W. N. Shrum. No. 1,383,572; July 5; v. 288; p. 65.
Antirattler for windows. D. B. Geddes. No. 1,385,208; July 19; v. 288; p. 535.
Antiskid device. W. H. Krug. No. 1,385,010; July 19; v. 288; p. 494.
Antiskid device. V. Kubelka. No. 1,383,823; July 5; v. 288; p. 117.
Antiskid device for vehicles. W. H. Krug. No. 1,383,407; July 5; v. 288; p. 31.
Antiskidding device. W. C. Smiley. No. 1,385,282; July 19; v. 288; p. 549.
Apron. E. C. Pease. No. 1,385,391; July 26; v. 288; p. 647.
Arc-radio-oscillation generator. H. F. Elliott. No. 1,385,121; July 19; v. 288; p. 518.
Arc-welding, Electrode-holder for. O. H. Eschholz. No. 1,384,439; July 12; v. 288; p. 295.
Arm and hand, Artificial. O. L. Dilworth. No. 1,385,817; July 26; v. 288; p. 734.
Arm-fitting. T. P. Cheevers. No. 1,384,826; July 19; v. 288; p. 455.
Armor-piercing tracing-bullet. W. L. Clay, J. C. Beatty, and D. G. Baker. No. 1,384,011; July 5; v. 288; p. 156.
Article-holder. M. Gross. No. 1,385,443; July 26; v. 288; p. 658.
Articles, Machine for reversing small. B. N. Griffing. No. 1,385,000; July 19; v. 288; p. 492.
Asphalt, Manufacture of. H. R. Wardell. No. 1,385,511; July 26; v. 288; p. 672.
Assembling-tool, Motor-driven. C. Strand. No. 1,384,811; July 19; v. 288; p. 452.
Auto-jack. S. Johnston. No. 1,383,545; July 5; v. 288; p. 59.
Auto-signal. J. E. Andregg. No. 1,384,112; July 12; v. 288; p. 226.
Auto-tire lock. W. A. Rigal. No. 1,384,487; July 12; v. 288; p. 304.
Autographic register. J. Q. Sherman. No. 1,385,587; July 26; v. 288; p. 688.
Autographic register. J. Q. Sherman and C. R. Buschmeyer. No. 1,385,588; July 26; v. 288; p. 688.
Automatic closure-controlling apparatus. G. S. O'Neil. No. 1,385,093; July 19; v. 288; p. 511.
Automatic control for processing apparatus. C. H. Durkee. No. 1,385,609; July 26; v. 288; p. 692.
Automatic hood-clamp. G. G. Marx. No. 1,385,568; July 26; v. 288; p. 684.
Automatic trip-motion. M. Bernaudin. No. 1,385,241; July 19; v. 288; p. 541.
Automatically-releasing coupling. A. B. Hulsebos and G. D. Besten. No. 1,384,195; July 12; v. 288; p. 243.
Automatically-releasing coupling. H. B. Hulsebos and G. D. Besten. No. 1,384,258; July 12; v. 288; p. 256.
Automobile-brake attachment. A. G. Schindler. No. 1,383,490; July 5; v. 288; p. 48.
Automobile-bumper. L. Baumgarti. No. 1,383,515; July 5; v. 288; p. 53.
Automobile, Burner for steam-. F. I. du Pont. No. 1,385,366; July 26; v. 288; p. 642.
Automobile construction. H. T. Thomas. No. 1,383,880; July 5; v. 288; p. 129.
Automobile-hoods, Pivot support and retainer for. F. G. Scozzafava. No. 1,383,768; July 5; v. 288; p. 106.
Automobile license-plate, Perpetual. R. Hardesty. No. 1,384,949; July 19; v. 288; p. 481.
Automobile-lift. A. Germar. No. 1,383,800; July 5; v. 288. p. 112.
Automobile-lock. R. Bruner. No. 1,384,594; July 12; v. 288; p. 327.
Automobile-lock. A. J. Gray and W. Hebern. No. 1,383,617; July 5; v. 288; p. 74.
Automobile-lock. W. A. Lowery. No. 1,384,075; July 12; v. 288; p. 218.
Automobile-lock. E. R. Perkins. No. 1,383,659; July 5; v. 288; p. 83.
Automobile-lock. F. Stanley. No. 1,385,479; July 26; v. 288; p. 666.
Automobile-lock, Theft-warning. J. K. McDonald. No. 1,385,461; July 26; v. 288; p. 662.
Automobile-locking device. J. H. Hissong. No. 1,384,697; July 12; v. 288; p. 349.
Automobile-radiator cap. T. O. Bussler. No. 1,385,304; July 19; v. 288; p. 553.
Automobile-signal. C. Hoffman. No. 1,383,632; July 5; v. 288; p. 77.
Automobile signal. C. H. Landis. No. 1,383,312; July 5; v. 288; p. 11.
Automobile-signal. J. A. Southwell. No. 1,383,870; July 5; v. 288; p. 127.
Automobile-signal. J. H. Van Sciver. No. 1,385,596; July 26; v. 288; p. 689.
Automobile-signal casing. S. Goldstein. No. 1,385,913; July 26; v. 288; p. 753.
Automobile-spring. G. C. Jones. No. 1,383,723; July 5; v. 288; p. 97.
Automobile-support. P. Derrow. No. 1,384,798; July 19; v. 288; p. 450.
Automobile-tire lock. P. F. Augenbraun. No. 1,384,549; July 12; v. 288; p. 317.
Automobile-tire tool, Combination. F. Emmenegger. No. 1,384,385; July 12; v. 288; p. 283.
Automobile-trailer. E. Ellerman. No. 1,385,437; July 26; v. 288; p. 656.
Automobile-wheel. J. L. Kuns. No. 1,384,902; July 19; v. 288; p. 471.
Automobile-wheels, Demountable rim for. J. H. Wagenhorst. No. 1,383,679; July 5; v. 288; p. 87.
Automobile-windshields, Sunshade for. A. Pearce. No. 1,384,275; July 12; v. 288; p. 260.
Automobiles, Accelerator for. A. C. Rosenbrook. No. 1,385,496; July 26; v. 288; p. 669.
Automobiles, detachable gear for. J. M. Meredith, Jr. No. 1,384,623; July 12; v. 288; p. 333.
Automobiles, Detachable truck-body for. J. K. Shannon. No. 1,384,162; July 12; v. 288; p. 236.
Automobiles, Direction-indicator for. M. U. Giovannetti. No. 1,383,931; July 5; v. 288; p. 139.
Automobiles, Fuel-feeding system for. W. H. Muxzy. No. 1,385,337; July 19; v. 288; p. 559.
Automobiles, Glare-shade for. E. Horn. No. 1,385,131; July 19; v. 288; p. 519.
Automobiles, Housing for transmission-gears and axles of. T. E., Jr., and J. B. Murray. No. 1,384,480; July 12; v. 288; p. 302.
Automobiles, Illuminating-sign for. E. Kemp. No. 1,385,006; July 19; v. 288; p. 493.
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Washer and lock-nut, Combined. C. F. Johnston and G. G. Rees. No. 1,384,019; July 5; v. 288; p. 158.
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Composite gear-wheel. Sheet-metal wheel.
Disk wheel. Spring-wheel.
Gear-wheel. Toy wheel.
Metal wheel. Traction-wheel.
Metal vehicle-wheel. Trolley-wheel.
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Stone or an imitation thereof, or article of similar nature, Precious, semiprecious, or synthetic. S. Heller. Nos. 58,317–21; July 12; v. 288; pp. 361–3.
Stones, Setting for precious. H. Breslavsky. No. 58,305; July 12; v. 288; p. 359.
Stove, Oil-. E. E. Hilliker. Nos. 58,439–40; July 19; v. 288; pp. 569–70.
Suit, Bathing-. W. B. Tyrrell. No. 58,411; July 12; v. 288; p. 383.
Talcum-powder box. J. M. Hothersall. Nos. 58,329–83; July 12; v. 288; pp. 364–77.
Talking-machine case. F. W. Steck. Nos. 58,512–13; July 26; v. 288; p. 779.
Textile fabric. A. Eisele. Nos. 58,468–70; July 26; v. 288; p. 770.
Textile fabric. W. G. Reith. No. 58,505; July 26; v. 288; p. 778.
Tire. J. M. Alderfer. No. 58,419; July 19; v. 288; p. 565.
Tire. E. L. Lawlor. No. 58,494; July 26; v. 288; p. 775.
Tire-rack. W. T. Rancel. No. 58,504; July 26; v. 288; p. 778.
Tire, Rubber. C. S. Park. No. 58,500; July 26; v. 288; p. 777.
Tire-tool. A. J. English and C. J. Hart. No. 58,472; July 26; v. 288; p. 770.
Tire-tread. W. S. Gauntt. No. 58,478; July 26; v. 288; p. 772.
Tire-tread. E. F. Kling. No. 58,491; July 26; v. 288; p. 775.
Tire-tread, Nonskid. E. N. Downes. Nos. 58,463–5; July 12; v. 288; p. 769.
Toothbrush. P. S. Marcellus. No. 58,445; July 19; v. 288; p. 571.
Toy. R. L. Herman. No. 58,483; July 26; v. 288; p. 773.
Toy animal. J. B. Gruelle. No. 58,314; July 12; v. 288. p. 360.
Toy block. H. C. Diefenbach. No. 58,462; July 12; v. 288; p. 769.
Toy, Dancing. T. Barnaby. No. 58,285; July 5; v. 288; p. 163.
Toy rabbit known as Peter Bunny. M. Waterman. No. 58,413; July 12; v. 288; p. 383.
Toy, Whirling. J. Zbikowski. No. 58,526; July 26; v. 288; p. 781.
Tractor. G. W. Dunham. No. 58,466; July 26; v. 288; p. 769.
Undergarment. W. L. Siewers. No. 58,405; July 12; v. 288; p. 381.
Urn, Percolating-. E. A. Farr. No. 58,473; July 26; v. 288; p. 771.
Vehicle. F. A. Johanknecht. No. 58,490; July 26; v. 288; p. 775.
Vest. A. M. Qua. No. 58,399; July 12; v. 288; p. 380.
Watch-movement case. S. K. Ouzoun-Boghossian. No. 58,498; July 26; v. 288; p. 776.
Wrench. V. A. Anderson. No. 58,454; July 26; v. 288; p. 767.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Abrasives coated on cloth or paper, or both. Manning Abrasive Co. No. 144,842; July 19; v. 288; p. 620.
Advertising and directional signs, Electrical. Viking Sign Company. No. 144,963; July 19; v. 288; p. 623.
Agricultural implements. International Harvester Company. Nos. 144,586–7; July 12; v. 288; p. 424.
Agricultural machinery and parts thereof, Certain. International Harvester Company. No. 145,119; July 26; v. 288; p. 814.
Air compressors and ejectors. Alberger Pump and Condenser Company. No. 145,240; July 26; v. 288; p. 819.
Alloys, Aluminum. A. Pacs. No. 145,170; July 26; v. 288; p. 815.
Alloys and castings and forgings, Light metal. Dow Chemical Company. No. 144,747; July 19; v. 288; p. 617.
Alloys, Non-ferrous. Aterite Co. No. 144,691; July 19; v. 288; p. 615.
Antiseptic fluid. Alex. D. Shaw & Co. No. 144,471; July 5; v. 288; p. 195.
Apparel, Ladies' wearing-. A. H. Flanders Company. No. 144,763; July 19; v. 288; p. 617.
Apples, Fresh. Reliable Fruit & Produce Co. No. 144,453; July 5; v. 288; p. 194.
Apples, Fresh. Israel Orchard Co. No. 144,886; July 19; v. 288; p. 621.
Asphaltum. Barber Asphalt Paving Company. No. 144,545; July 12; v. 288; p. 423.
Asphaltum. Standard Oil Company of New York. No. 144,944; July 19; v. 288; p. 623.
Aspirin. E. L. Miller. No. 144,612; July 12; v. 288; p. 425.
Automobile and locomotive cylinders, Machine for boring. W. L. Brubaker & Bros. No. 145,253; July 26; v. 288; p. 821.
Automobile bodies and frames. Greyhound Motors Corporation. No. 145,104; July 26; v. 288; p. 813.
Automobile-radiators. Modine Manufacturing Company. No. 144,443; July 5; v. 288; p. 194.
Automobiles. Champion Motors Corporation. No. 144,716; July 19; v. 288; p. 616.
Automobiles. Societe Des Moteurs Gnome et Rhone. No. 144,477; July 5; v. 288; p. 195.
Automobiles and motor-trucks. Gregory-Craun Motor Co. No. 144,405; July 5; v. 288; p. 193.
Automobiles and motor-trucks. Selden Truck Corporation. No. 144,469; July 5; v. 288; p. 195.
Automobiles, Pleasure-. S. Paris. No. 145,171; July 26; v. 288; p. 815.
Awning-stripes in the piece. Marshall Field & Company. No. 144,844; July 19; v. 288; p. 620.
Axles and axle parts of power-driven vehicles. Kirkwen Multipower Axle Co. No. 144,593; July 12; v. 288; p. 424.
Axles, Vehicle-. Baker R & L Company. No. 144,513; July 5; v. 288; p. 198.
Bagging manufactured from jute fiber. American Manufacturing Company. No. 145,242; July 26; v. 288; p. 819.
Bags, Fancy silk or cloth. Navy League of the United States. No. 144,907; July 19; v. 288; p. 622.
Baking plants. Bake-Rite Oven Mfg. Company. No. 145,037; July 26; v. 288; p. 811.
Balls, Golf-. United States Rubber Company. No. 145,294; July 26; v. 288; p. 825.
Baskets on wheels, Market-. M. B. Capen. No. 144,712; July 19; v. 288; p. 616.
Bath-room fittings. Bre Manufacturing Company. No. 144,354; July 5; v. 288; p. 191.
Bathroom-fixtures of enameled ware. Whyt E naml Specialty Co. Nos. 145,204–5; July 26; v. 288; p. 816.
Batiste in the piece. Sears, Roebuck and Co. No. 145,219; July 26; v. 288; p. 817.
Batteries and parts, electric switches, bulbs, &c., Storage. Appel Battery Service Company. No. 144,339; July 5; v. 288; p. 191.
Batteries and parts thereof, Storage. Willard Storage Battery Company. No. 144,497; July 5; v. 288; p. 196.
Batteries, Indicators for showing state of charge of storage. Cellokay Manufacturing Company. No. 144,715; July 19; v. 288; p. 616.
Batteries, Storage. Hobbs Laboratories. No. 144,416; July 5; v. 288; p. 193.
Batteries, Storage. M. Marks. No. 144,606; July 12; v. 288; p. 425.
Batteries, Storage. Wuest & Schrader. No. 144,652; July 12; v. 288; p. 426.
Battery-jars made of hard or semihard rubber. B. F. Goodrich Company. No. 144,575; July 12; v. 288; p. 424.
Battery turntables, plate presses, steamers, &c. American Bureau of Engineering. No. 145,025; July 26; v. 288; p. 811.
Bearing, Metal. More-Jones Brass & Metal Company. No. 145,160; July 26; v. 288; p. 815.
Bearings, Roller-. Royersford Foundry & Machine Co. No. 145,289; July 26; v. 288; p. 825.
Bearings, Steel balls for. Bryce Manufacturing Company. No. 145,254; July 26; v. 288; p. 821.
Bedspreads. Marshall Field & Company. No. 145,146; July 26; v. 288; p. 814.
Bedsteads, mattresses, &c. Pittsburgh Iron Folding Bed Co. No. 144,449; July 5; v. 288; p. 194.
Beehives and certain named parts thereof. G. B. Lewis Company. No. 144,528; July 5; v. 288; p. 199.
Beer, Root-. Golden Grain Juice Co. No. 144,779; July 19; v. 288; p. 618.

Belting. Vacuum Belting Company. No. 144,961; July 19; v. 288; p. 623.
Belting, Flat leather. J. E. Rhoads & Sons. No. 145,006; July 19; v. 288; p. 628.
Belting, Leather. J. E. Rhoads & Sons. No. 145,187; July 26; v. 288; p. 816.
Belts. Endless Belt Corporation. No. 144,386; July 5; v. 288; p. 192.
Belts, Endless. Endless Belt Corporation. No. 144,385; July 5; v. 288; p. 192.
Beverage. Chippewa Springs Corporation. No. 144,722; July 19; v. 288; p. 616.
Beverage, Cereal. Milwaukee Brewery of San Francisco. No. 144,529; July 5; v. 288; p. 199.
Beverage, Non-alcoholic. Renner Company. No. 144,454; July 5; v. 288; p. 194.
Beverage, Non-alcoholic maltless. S. S. S. Mfg. Co. No. 144,932; July 19; v. 288; p. 622.
Beverage, Non-intoxicating. Danciger Brothers. No. 144,737; July 19; v. 288; p. 616.
Beverages in the form of a syrup or carbonated in bottles, Non-alcoholic. Southern Beverage Company. No. 144,420; July 5; v. 288; p. 193.
Beverages, Non-alcoholic, maltless. Essantee Company. No. 144,756; July 19; v. 288; p. 617.
Beverages, Non-alcoholic maltless. M. Robins. No. 145,288; July 26; v. 288; p. 825.
Beverages, Non-alcoholic maltless. S. Sallerno. No. 144,916; July 19; v. 288; p. 622.
Beverages, Non-alcoholic, maltless. Stone Fizz Company of America. No. 144,948; July 19; v. 288; p. 623.
Beverages, Non-intoxicating. West End Brewing Co. No. 144,492; July 5; v. 288; p. 196.
Biscuit. National Biscuit Company. No. 144,905; July 19; v. 288; p. 622.
Biscuit. National Biscuit Company. No. 145,164; July 26; v. 288; p. 815.
Biscuit. National Biscuit Company. No. 145,231; July 26; v. 288; p. 817.
Booklets, Periodically-issued. Wm. Fischman Inc. No. 144,761; July 19; v. 288; p. 617.
Books and similar publications, Instruction-. Bernhard Ulmann Co. No. 145,196; July 26; v. 288; p. 816.
Bootees and slippers, Felt. George Borgfeldt & Co. No. 144,704; July 19; v. 288; p. 615.
Boots and shoes, Leather. Florsheim Shoe Company. No. 144,764; July 19; v. 288; p. 617.
Boots and shoes, Leather. L. J. Levine. No. 144,829; July 19; v. 288; p. 619.
Boots and shoes made wholly or partly of rubber. B. F. Goodrich Company. No. 144,525; July 5; v. 288; p. 199.
Boots, shoes, slippers, &c. Thomas G. Plant Company. No. 144,913; July 19; v. 288; p. 622.
Boots, shoes, slippers, moccasins, Leather. J. S. Turner Manufacturing Co. No. 145,239; July 26; v. 288; p. 817.
Bottle-openers and bottle-cap removers. G. A. Wyeth. No. 145,210; July 26; v. 288; p. 817.
Brake-lining, clutch-facings, &c. American Brake-Lining Company. No. 144,336; July 5; v. 288; p. 191.
Brake-linings and clutch-facings. J. R. Kelso. No. 144,422; July 5; v. 288; p. 193.
Bread, Ogden Baking Company. No. 144,908; July 19; v. 288; p. 622.
Bread and cake. Memphis Bread Company. No. 144,607; July 12; v. 288; p. 425.
Bread, cake, pastries. M. H. Wildstein. No. 144,977; July 19; v. 288; p. 624.
Brick, building-block, &c. Wert Manufacturing Company. No. 145,296; July 26; v. 288; p. 826.
Bricks and tile, Fire. Laclede-Christy Clay Products Company. No. 144,827; July 19; v. 288; p. 619.
Bricks, Refractory. Seaboard Refractories Company. No. 145,221; July 26; v. 288; p. 817.
Bristol-board. J. W. Butler Paper Company. No. 145,055; July 26; v. 288; p. 812.
Bristol-boards. Whiting Paper Company. No. 144,974; July 19; v. 288; p. 624.
Buildings and assembled units thereof, Portable and stationary. J. Anderson. No. 144,986; July 19; v. 288; p. 625.
Buildings and partially-fabricated parts thereof. Arthur B. Shepard Company. No. 144,930; July 19; v. 288; p. 622.
Bumpers, creepers, steering-wheels, &c. Badger Manufacturing Corporation. No. 145,036; July 26; v. 288; p. 811.
Burning-lead molds. American Bureau of Engineering. No. 144,335; July 5; v. 288; p. 191.
Butter. Shasta Creamery Company. No. 144,669; July 12; v. 288; p. 429.
Butter and eggs. Morris & Company. No. 144,667; July 12; v. 288; p. 428.
Butter, Pure creamery. Raton Creamery Company. No. 144,897; July 19; v. 288; p. 621.
Buttons. C. L. Heimbruch. No. 144,794; July 19; v. 288; p. 618.
Cabinets, Steel filing-. Bergmann Mfg. Co. No. 145,252; July 26; v. 288; p. 820.
Cakes, Sugar. G. N. Mindling. No. 144,610; July 12; v. 288; p. 425.
Can-openers, apple-corers, cake-turners, &c. Rockford Metal Specialty Company. No. 144,462; July 5; v. 288; p. 195.
Cans, tool-boxes, water-pails, Ash, gasolene, garbage, and oil. Banister & Pollard Co. No. 145,247; July 26; v. 288; p. 820.
Canned cultured milk. E. Willadsen. No. 145,206; July 26; v. 288; p. 816.
Canned foods and fruit jams. Ray-Maling Co. No. 144,629; July 12; v. 288; p. 425.
Canned fruits. Smith-Frank Packing Co. Nos. 144,937–8; July 19; v. 288; p. 623.
Canned fruits and vegetables. W. N. Clark Co. No. 144,736; July 19; v. 288; p. 616.
Canned fruits and vegetables. Geo. Marsh Company. No. 145,277; July 26; v. 288; p. 823.
Canned fruits and vegetables. Thomas-Body Company. No. 144,951; July 19; v. 288; p. 623.
Canned fruits and vegetables. Thomas-Body Company. No. 145,282; July 26; v. 288; p. 817.
Canned fruits, vegetables, fish, &c. Bon I. Look Stores Company. No. 144,429; July 5; v. 288; p. 194.
Canned fruits, vegetables, and fish, fruit preserves, &c. Geo. M. Byrie Company. No. 144,902; July 19; v. 288; p. 622.
Canned shrimp. Phoenix Packing Company. Nos. 144,893–4; July 19; v. 288; p. 621.
Canned vegetables. Sears & Nichols Canning Co. No. 144,534; July 5; v. 288; p. 200.
Canned vegetables. Charles G. Summers Co. No. 145,230; July 26; v. 288; p. 817.
Candies. E. Greenfield's Sons. No. 144,658; July 12; v. 288; p. 427.
Candies and cholocates. Mason, Au & Magenheimer Conf. Mfg. Co. No. 144,856; July 19; v. 288; p. 620.
Candies called caramels. D. Marciani. No. 145,145; July 26; v. 288; p. 814.
Candies, ice-cream, lunches, cakes. Spoon and Straw, Inc. No. 144,948; July 19; v. 288; p. 623.
Candy. California Chocolate Shops, Inc. No. 144,711; July 19; v. 288; p. 616.
Candy. Charter Chocolate Company. No. 144,718; July 19; v. 288; p. 616.
Candy. Dilling & Company. No. 144,744; July 19; v. 288; p. 617.
Candy. G. E. Jackson. No. 145,120; July 26; v. 288; p. 814.
Candy. Love and Kopis Candy Co. No. 144,836; July 19; v. 288; p. 620.
Candy. E. L. Mathews Candy Company. No. 144,666; July 12; v. 288; p. 428.
Candy. Vogan Candy Company. No. 144,964; July 19; v. 288; p. 623.
Candy, Chocolate. Dilling & Company. No. 144,742; July 19; v. 288; p. 617.
Candy, Licorice. National Licorice Company. No. 144,878; July 19; v. 288; p. 621.
Candy—namely, chocolate bars. Dilling & Company. No. 144,741; July 19; v. 288; p. 617.
Candy, Pulling-. S. S. Taylor. No. 144,482; July 5; v. 288; p. 196.
Cantaloups, cauliflower, onions, tomatoes, and grapes, Fresh. W. E. Urick. No. 144,960; July 19; v. 288; p. 623.
Canton-flannel. Sears, Roebuck and Co. No. 145,218; July 26; v. 288; p. 817.
Carbon-removing compound for internal-combustion-engine cylinders. C. T. Dally. No. 144,377; July 5; v. 288; p. 192.
Carpets and rugs. W. A. W. Davis Corporation. No. 145,070; July 26; v. 288; p. 812.
Cars and couplings. C. W. Hunt Company. No. 144,584; July 12; v. 288; p. 424.
Castor-oil. S. Kellogg & Sons Inc. No. 145,014; July 19; v. 288; p. 629.
Catalogues, booklets, price-lists, and pamphlets. A. I. Randall. No. 145,004; July 19; v. 288; p. 628.
Catalogues issued monthly and annually. Moore & Evans. No. 144,865; July 19; v. 288; p. 620.
Cement for filling fissures in metals. G. P. Goldsmith. No. 144,524; July 5; v. 288; p. 199.
Cement, High-temperature. McPhee Cement Company. No. 145,136; July 26; v. 288; p. 814.
Cement, Portland. Edison Portland Cement Company. No. 144,384; July 5; v. 288; p. 192.
Cement, Portland. Louisville Cement Company. No. 144,600; July 12; v. 288; p. 424.
Cements, Boiler and glass setting. Excello Manufacturing Company. No. 145,093; July 26; v. 288; p. 813.
Cements, Roofing-. L. D. Johnson. No. 144,589; July 12; v. 288; p. 424.
Chains for personal adornment. Forstner Chain Corporation. Nos. 144,393–4; July 5; v. 288; p. 198.
Chains for personal adornment. Forstner Chain Corporation. No. 144,768; July 19; v. 288; p. 617.
Chains, Drive-. Atlas Chain Co. No. 145,034; July 26; v. 288; p. 811.
Chambray in the piece. Sears, Roebuck and Co. No. 144,926; July 19; v. 288; p. 622.
Chemical drain opener and cleaner. Pacific Chemical Company. No. 145,003; July 19; v. 288; p. 627.
Chemicals, medicines, and toilet preparations. American Laboratories Incorporated. No. 144,337; July 5; v. 288; p. 191.
Cheviots in the piece. Marshall Field & Company. No. 144,843; July 19; v. 288; p. 620.
China and porcelain ware. Edwin M. Knowles China Co. No. 144,595; July 12; v. 288; p. 424.

Chocolate bars. Dilling & Company. No. 144,743; July 19; v. 288; p. 617.
Chocolate bars. Dilling & Company. No. 144,745; July 19; v. 288; p. 617.
Chocolate, candies, and cocoa. J. G. McDonald Chocolate Co. No. 144,665; July 12; v. 288; p. 428.
Chocolate coating. Ideal Cocoa & Chocolate Co. No. 144,802; July 19; v. 288; p. 618.
Chocolate, Sweet. Walter Baker & Company. No. 144,544; July 12; v. 288; p. 423.
Chocolates. D. Auerbach & Sons. No. 144,692; July 19; v. 288; p. 615.
Chocolates and bonbons. Kliss Candy Company. No. 144,824; July 19; v. 288; p. 619.
Chocolates of all kinds, chocolate and cocoa powder, &c. E. Plumenail. No. 144,759; July 19; v. 288; p. 617.
Cider, Unfermented. A. W. Waugh Fruit Co. No. 144,969; July 19; v. 288; p. 624.
Cigarette-cases. Presto Cigarette Case Corp. of N. Y. No. 145,179; July 26; v. 288; p. 815.
Cigarettes, cigars, tobacco. Turmac Turkish Macedonian Tobacco Company. No. 144,643; July 12; v. 288; p. 426.
Cigars. E. S. Wilson. No. 145,299; July 26; v. 288; p. 826.
Cigars, cigarettes, tobacco. Bayuk Bros. No. 145,250; July 26; v. 288; p. 820.
Cigars, cigarettes, tobacco. Sidney J. Freeman & Sons. No. 144,396; July 5; v. 288, p. 193.
Clarinets and saxophones, Mouthpieces and reeds for. Woodwind Company. No. 144,980; July 19; v. 288; p. 624.
Cleaning and scouring powder. Eldridge Chemical Company. No. 145,055; July 26; v. 288; p. 818.
Cleaning compound, Liquid-form. M. M. Goldstein. No. 144,780; July 19; v. 288; p. 618.
Cleavers. American Tap and Die Co. No. 145,028; July 26; v. 288; p. 811.
Clothes, Men's outer. M. Gordon. No. 144,783; July 19; v. 288; p. 618.
Clothing. Western Dry Goods Co. No. 144,971; July 19; v. 288; p. 624.
Clothing, Articles of. The Best Mills Co. No. 144,516; July 5; v. 288; p. 198.
Clothing, Articles of. Hall, Hartwell & Co. Nos. 144,410–11; July 5; v. 288; p. 193.
Clothing, Articles of. J. B. Simpson. No. 144,935; July 19; v. 288; p. 623.
Clothing, Boys' outer. Phil. Walcoff & Co. No. 145,201; July 26; v. 288; p. 816.
Clothing, Men's summer. Bloom and Horner. No. 144,351; July 5; v. 288; p. 191.
Coffee. The Caldwell Importing Co. No. 144,991; July 19; v. 288; p. 626.
Coffee. Commonwealth Coffee Company. No. 144,733; July 19; v. 288; p. 616.
Coffee. G. G. Cornwell & Son. No. 144,371; July 5; v. 288; p. 192.
Coffee. Early-Stratton Co. No. 145,083; July 26; v. 288; p. 813.
Coffee. Gold Cross Coffee Company. No. 144,778; July 19; v. 288; p. 618.
Coffee. Merryweather Coffee, Tea & Spice Co. No. 145,278; July 26; v. 288; p. 823.
Coffee. Pennsylvania Coffee Company. No. 144,448; July 5; v. 288; p. 194.
Coffee. John A. Tolman & Company. No. 144,483; July 5; v. 288; p. 195.
Coffee. Westfeldt Brothers. No. 144,972; July 19; v. 288; p. 624.
Coffee, Roasted. J. P. O'Connor. No. 144,619; July12; v. 288; p. 425.
Coffee, vinegar, prepared mustard, Roasted. Smart & Final Co. No. 144,474; July 5. v. 288; p. 195.
Collars. C. H. O'Neill. No. 145,168; July 26; v. 288; p. 815.
Collars and neckbands. Jefferson Collar Co. No. 145,121; July 26; v. 288; p. 814.
Collars, cuffs, shirts, &c., Men's. C. C. Hemmick. No. 145,111; July 26; v. 288; p. 813.
Collars, underwear, shirts, &c. Associated Clothiers. No. 144,689; July 19; v. 288; p. 615.
Coloring-matter suitable for the coloring of hair. B. W. Moe. No. 144,444; July 5; v. 288; p. 194.
Colors for foods and ingredients, Paste. H. Kohnstamm & Co. No. 144,596; July 12; v. 288; p. 424.
Columbia Graphophone Company, New York. N. Y. Furniture-polish. Nos. 144,730–1; July 19; v. 288; p. 616.
Combs, Pocket, fine, barbers', and dressing. C. A. Barnes. No. 144,717; July 19; v. 288; p. 616.
Compound used in the Janney reproduction process, Gelatin. E. S. Holland Co. No. 144,417; July 5; v. 288; p. 193.
Concrete floors, Hardening liquid for treating. Goheen Corporation. No. 144,400; July 5; v. 288; p. 193.
Concrete-mixers, feed-grinders, &c. E. F. Elmberg Company. No. 145,089; July 26; v. 288; p. 813.
Concrete poles. Massey Concrete Products Corporation. No. 144,857; July 19; v. 288; p. 620.
Confectionery—namely, chocolate coatings. Borden Company. No. 144,352; July 5; v. 288; p. 191.
Containers for food products, Composition. Mono-Service Co. No. 145,001; July 19; v. 288; p. 627.
Cookies. B. F. Miller. No. 145,152; July 26; v. 288; p. 815.
Cordials, Non-alcoholic. Gray-Juergens Co. No. 144,786; July 19; v. 288; p. 618.
Cords, Braided. Silver Lake Company. No. 144,536; July 5; v. 288; p. 200.
Cork composition used as a covering for rolls, cork innersoling for shoes, &c. International Cork Company. No. 144,807; July 19; v. 288; p. 619.
Cornmeal. W. P. Tanner-Gross & Company. No. 145,293; July 26; v. 288; p. 825.
Cornmeal. Western Grain Company. No. 144,495; July 5; v. 288; p. 196.
Corsets, corset-covers, brassières, and waists. Charles R. De Revoise Co. No. 144,739; July 19; v. 288; p. 617.
Cotton goods in the piece. Smith, Hogg & Co. Nos. 145,011–12; July 19; v. 288; pp. 628–9.
Cotton-pickers' sacks. J. W. Watkins & Co. No. 144,491; July 5; v. 288; p. 196.
Cotton piece goods. Amoskeag Manufacturing Company. Nos. 145,029–30; July 26; v. 288; p. 811.
Cotton piece goods. Denser & Nathan. No. 145,256; July 26; v. 288; p. 821.
Cotton piece goods. Pacific Mills. Nos. 144,889–90; July 19; v. 288; p. 621.
Cotton piece goods. Pacific Mills. Nos. 144,910–12; July 19; v. 288; p. 622.
Cotton piece goods. Pacific Mills. No. 145,169; July 26; v. 288; p. 815.
Cotton pile cloth in the piece. John S. Boyd Company. No. 144,705; July 19; v. 288; p. 619.
Cotton, wool, and linen goods in the piece. McDonald Bros. Co. No. 144,837; July 19; v. 288; p. 620.
Cotton, wool, &c., piece goods. South & Central American Commercial Co. No. 145,226; July 26; v. 288; p. 817.
Crayons. National Crayon Company. No. 144,871; July 19; v. 288; p. 621.
Cream in the nature of soap, powder, stick, &c., Shaving-. J. B. Williams Company. No. 144,976; July 19; v. 288; p. 624.
Cream, Shaving-. Standard Sanitary Specialties Company. No. 144,945; July 19; v. 288; p. 623.
Creams and hair-dressings, Face, cold, and vanishing. Miller-Lambert Chemical Co. No. 144,442; July 5; v. 288; p. 194.
Croup-salve, laxative pills, cough medicine, &c. L. A. Buresch. No. 144,554; July 12; v. 288; p. 423.
Cylinder boring and facing machines. Barrett Machine Tool Company. No. 145,249; July 26; v. 288; p. 820.
Cylinders of internal-combustion engines, Chemical for removing deposits from. Motor-Kick Company. No. 144,611; July 12; v. 288; p. 425.
Dehydrated Welsh rabbit. Cheshire Kitchens, Inc. No. 144,823; July 19; v. 288; p. 619.
Dental cleaning and polishing preparation. B. McFadden. No. 144,601; July 12; v. 288; p. 424.
Dental-plate polish. W. A. Milliken. No. 144,862; July 19; v. 288; p. 620.
Diaper-flannel in the piece. Sears, Roebuck and Co. No. 144,923; July 19; v. 288; p. 622.
Die-holders, screw-plate guides, &c. Union Twist Drill Company. No. 145,197; July 26; v. 288; p. 816.
Display devices. C. L. Scovil. No. 145,291; July 26; v. 288; p. 825.
Display-racks. J. M. Kappus. No. 144,590; July 12; v. 288; p. 424.
Doll swings and high chairs, toy sulkies and drums. Prestoy Mfg. Co. No. 144,624; July 12; v. 288; p. 425.
Dolls and doll dress outfits. C. Bloom, Inc. No. 144,550; July 12; v. 288; p. 423.
Dresses. G. Schulman. No. 144,920; July 19; v. 288; p. 622.
Drills and attachments therefor, Radial. Niles-Bement-Pond Company. No. 145,165; July 26; v. 288; p. 815.
Drills, grinders, magnet-chucks, &c., Electric. Fairbanks Co. No. 144,569; July 12; v. 288; p. 423.
Dye in soap form. Conrad Chemical Co. No. 144,519; July 5; v. 288; p. 198.
Dyestuffs, intermediates, and food-colors. National Aniline and Chemical Company. Nos. 144,872–7; July 19; v. 288; p. 621.
Egg-white preparation for making white cake, &c. International Company. No. 144,805; July 19; v. 288; p. 619.
Egg-white preparation for making white cake, &c. International Company. No. 144,806; July 19; v. 288; p. 619.
Eggs. California Central Creameries. No. 144,655; July 12; v. 288; p. 427.
Eggs. M. E. Emmons. No. 144,567; July 12; v. 288; p. 423.
Eggs and butter. Spangenberg & Co. No. 144,670; July 12; v. 288; p. 429.
Eggs, Fresh. Drucker & Lindy. No. 145,076; July 26; v. 288; p. 812.
Electric apparatus, &c. Huntington & Guerry Inc. No. 144,801; July 19; v. 288; p. 618.
Electric heating apparatus for heating fluids. Electric Heat Unit Co. No. 144,755; July 19; v. 288; p. 617.
Electric heating devices, particularly cigar-lighters and water-heaters. Duralectric Corporation. No. 144,562; July 12; v. 288; p. 423.
Electric lamps and conduit-fittings, Portable. S. Robert Schwartz & Bro. No. 144,502; July 5; v. 288; p. 196.
Electric-lighting fixtures. P. I. Elias. No. 144,566; July 12; v. 288; p. 423.

Electric-lighting fixtures. Voight Company. No. 144,487; July 5; v. 288; p. 195.
Electric massage-machines. C. W. Kent. No. 144,424; July 5; v. 288; p. 193.
Electric motors and generators, starters for motors. Crocker-Wheeler Company. No. 144,656; July 12; v. 288; p. 427.
Electric motors, switches, cut-outs, &c. The Burnett-Larsh Manufacturing Company. No. 144,710; July 19; v. 288; p. 616.
Electric plug-clusters. Benjamin Electric Manufacturing Co. No. 144,347; July 5; v. 288; p. 191.
Electric socket-switches, electric motors, fuses, &c. Kilo Electric Company. No. 144,826; July 19; v. 288; p. 619.
Electric tachometers and electric meters. Electric Tachometer Corporation. No. 144,565; July 12; v. 288; p. 423.
Electrical apparatus. Gray & Davis. No. 144,526; July 5; v. 288. p. 199.
Electrical apparatus. National Carbon Company. No. 144,445; July 5; v. 288; p. 194.
Electrical apparatus. Simplex Electric Heating Company. No. 144,934; July 19; v. 288; p. 622.
Electrical appliances. Beaver Machine & Tool Co. No. 145,040; July 26; v. 288; p. 811.
Electrical appliances. Chicago Mica Co. No. 145,060; July 26; v. 288; p. 812.
Electrical appliances. A. Dewes Company. No. 144,880; July 5; v. 288; p. 192.
Electrical appliances. H. A. Wilson Company. No. 144,651; July 12; v. 288; p. 426.
Electrical cord connection for heating appliances. Alexander and Lawenson Electrical Supply Co. No. 144,884; July 5; v. 288; p. 191.
Electrical-lighting equipment. J. J. Johnson. No. 144,817; July 19; v. 288; p. 619.
Electrodes, anodes, and carbon-brushes. Acheson Graphite Company. No. 144,982; July 19; v. 288; p. 625.
Engines and parts thereof, Oil, gas, &c. Scintilla. No. 145,215; July 26; v. 288; p. 817.
Engines, Electrical fuel-heaters for explosive. Startit Manufacturing Company. No. 144,947; July 19; v. 288; p. 623.
Engines for aeroplanes, &c., Internal-combustion. Cosmos Engineering Company. Nos. 144,372–3; July 5; v. 288; p. 192.
Engines, Marine steam-. Marietta Manufacturing Company. No. 145,276; July 26; v. 288; p. 823.
Engines, oil-well pumping-powers, and fluid-compressors, Internal-combustion. Bessemer Gas Engine Company. No. 145,042; July 26; v. 288; p. 811.
Envelops, Mailing-. J. W. Butler Paper Company. No. 145,054; July 26; v. 288; p. 812.
Eyeglasses and spectacles. H. C. Rees. No. 145,286; July 26; v. 288; p. 825.
Fabric piece goods, Coach and furniture. Bridgeport Coach Lace Co. No. 145,048; July 26; v. 288; p. 811.
Fabrics in the piece, Textile. Holden-Leonard Company. No. 145,115; July 26; v. 288; p. 814.
Fabrics in the piece, Woven, knitted, netted, textile, and pile. Cheney Brothers. No. 144,366; July 5; v. 288; p. 192.
Fabrics in the piece woven of silk in combination with cotton and wool, &c. Brainerd & Armstrong Company. No. 145,047; July 26; v. 288; p. 811.
Fabrics, Textile. Carl Schoen Silk Corporation. No. 144,919; July 19; v. 288; p. 622.
Fatty oleaginous or unctuous food substances, Prepared. Southern Cotton Oil Company. No. 145,018; July 19; v. 288; p. 629.
Feed, Horse. Nowak Milling Corporation. No. 144,616; July 12; v. 288; p. 425.
Feed, Horse and mule. Buckeye Cotton Oil Company. No. 145,057; July 26; v. 288; p. 812.
Feed, Poultry, pigeon, and stock. Blamberg Brothers. No. 144,654; July 12; v. 288; p. 427.
Feed, Scratch. J. M. Ernst & Son. No. 145,001; July 26; v. 288; p. 813.
Feed, Sweet. Pease & Dwyer Co. Nos. 144,891–2; July 19; v. 288; p. 621.
Felt, Prepared. J. H. Stone. No. 145,220; July 26; v. 288; p. 817.
Felts and jackets, Paper-makers' woolen. Waterbury Felt Company. No. 144,968; July 19; v. 288; p. 624.
Ferromolybdenum. Climax Molybdenum Company. No. 144,370; July 5; v. 288; p. 192.
Fertilizer. Pocomoke Guano Co. No. 144,450; July 5; v. 288; p. 194.
Fertilizer, Liquid. Excell Laboratories. No. 144,657; July 12; v. 288; p. 427.
Fertilizers. Fertile Chemical Co. No. 144,389; July 5; v. 288; p. 192.
Fertilizers. Pacific Guano & Fertilizer Company, The. No. 144,887; July 19; v. 288; p. 621.
Files. A. A. Wood & Sons Company. No. 145,300; July 26; v. 288; p. 826.
Fire-extinguishing compound. Fi-Er-Kil Company. No. 144,390; July 5; v. 288; p. 192.
Fish, Fresh and cured, clam-chowder, fish-meal, and oil. Gorton-Pew Fisheries Company. No. 144,784; July 19; v. 288; p. 618.
Flat and hollow ware and jewelry. Rogers, Lunt & Bowlen Company. No. 145,194; July 26; v. 288; p. 816.
Flat-ware, Silver-plated. International Silver Company. No. 144,809; July 19; v. 288; p. 619.
Flat-ware, Table. Regal Silver Mfg. Co. No. 144,628; July 12; v. 288; p. 425.
Flavors for making non-alcoholic beverages. Buyers Export Agency. No. 145,056; July 26; v. 288; p. 812.
Flooring and flooring materials. T. Mack. No. 145,188; July 26; v. 288; p. 814.
Floors and walls, Sockets and metallic strips used in laying composition and plastic. P. Galassi Corporation. No. 145,007; July 26; v. 288; p. 813.
Floors, walls, partitions, Composition for making. American Magnesia Products Co. No. 144,338; July 5; v. 288; p. 191.
Florist dispensing supplies. Kervan Company. No. 144,820; July 19; v. 288; p. 619.
Flour, Self-rising wheat-. Colorado Milling & Elevator Company. No. 145,063; July 26; v. 288; p. 812.
Flour, Self-rising wheat-. Schoening-Koenigsmark Milling Co. No. 144,532; July 5; v. 288; p. 199.
Flour, Wheat-. Bernet, Craft & Kauffman Milling Co. No. 144,548; July 12; v. 288; p. 423.
Flour, Wheat-. Commercial Union of America. No. 144,732; July 19; v. 288; p. 616.
Flour, Wheat-. Fisher Flouring Mills Company. No. 144,765; July 19; v. 288; p. 617.
Flour, Wheat-. Interprovincial Flour Mills. Nos. 144,810–11; July 19; v. 288; p. 619.
Flour, Wheat-. Martens & Ketels Milling Co. No. 145,147; July 26; v. 288; p. 815.
Flour, Wheat-. B. L. Robertson. No. 144,531; July 5; v. 288; p. 199.
Flour, Wheat-. J. Rosenstein. No. 144,915; July 19; v. 288; p. 622.
Flour, Wheat-. W. P. Tanner-Gross & Company. Nos. 144,672–3; July 12; v. 288; p. 429.
Flour-Wheat-. Trenton Milling Company. No. 144,642; July 12; v. 288; p. 426.
Flour, Wheat-. George Urban Milling Company. No. 144,959; July 19; v. 288; p. 623.
Flour, Wheat-. Vollmer Warehouse & Milling Co. No. 144,646; July 12; v. 288; p. 426.
Flour, Wheat-. Wichita Mills and Elevator Company. No. 144,975; July 19; v. 288; p. 624.
Flours, cornmeal, brans, &c. Globe Grain & Milling Co. No. 145,100; July 26; v. 288; p. 813.
Flours, meal, health-bran, feeds. Great Western Milling Company. No. 145,266; July 26; v. 288; p. 822.
Food and fermented milk preparation, Predigested. J. Mellcow. No. 145,149; July 26; v. 288; p. 815.
Food and food-ingredient, Wheat breakfast. Franklin MacVeagh & Company. No. 145,137; July 26; v. 288; p. 814.
Food product, Casein. Dry Milk Company. No. 145,077; July 26; v. 288; p. 812.
Foods. Wellman-Peck & Co. No. 144,970; July 19; v. 288; p. 624.
Foods and ingredients of foods. Alton Mercantile Company. No. 144,505; July 5; v. 288; p. 197.
Fountain-pens, gold pen-points, pocket-clips, and lead-pencils. S. J. Meyerpeter. No. 144,441; July 5; v. 288; p. 194.
Friction-tape. Western Electric Company. No. 144,494; July 5; v. 288; p. 196.
Friction-tape. Western Electric Company. No. 144,649; July 12; v. 288; p. 426.
Fruits and vegetables, Canned. California Growers Association. No. 144,555; July 12; v. 288; p. 423.
Fruits and vegetables, Fresh. Elliott Commission Company. No. 145,087; July 26; v. 288; p. 813.
Fruits, Canned. C. Bryant. No. 144,553; July 12; v. 288; p. 423.
Fruits, canned fruits and fish, Dried. A/S Det Almindelige Handelskompagni. No. 145,108; July 26; v. 288; p. 813.
Fruits, Evaporated. Bates & Abbott. No. 144,547; July 12; v. 288; p. 423.
Fruits, flowers, rolled oats, clean, Dried. Holland Food Corporation. No. 144,799; July 19; v. 288; p. 618.
Fruits, Fresh citrus. Lakeland Citrus Co. No. 145,129; July 26; v. 288; p. 814.
Fruits, Fresh citrus. J. L. Taylor Company. No. 144,949; July 19; v. 288; p. 623.
Fruits, Fresh deciduous. Bear Creek Orchards. No. 144,343; July 5; v. 288; p. 191.
Fruits, Fresh deciduous. C. C. Woodworth. No. 144,499; July 5; v. 288; p. 196.
Fuel improver, Gas-engine-. A. Danville. No. 144,878; July 5; v. 288; p. 192.
Furnaces and cooking-ranges, Warm-air, coal, wood, gas, and oil. Graff Furnace Co., The. Nos. 144,997–8; July 19; v. 288; p. 627.
Furniture and automobile polish. F. P. Smith. No. 144,939; July 19; v. 288; p. 623.
Furniture-polish. Columbia Graphophone Company. No. 144,729; July 19; v. 288; p. 616.
Furniture-polish. Grand Union Tea Co. No. 144,404; July 5; v. 288; p. 193.
Fuse-plugs, electric switches, cut-outs, &c. Trenton Electric & Conduit Company. No. 144,953; July 19; v. 288; p. 623.
Fuses, Plug-. Whitman Electric Manufacturing Co. No. 144,650; July 12; v. 288; p. 426.
Gages, Thread-. Herrmann Gauge Co. No. 145,268; July 26; v. 288; p. 822.

Game, War. E. J. Daley, Jr. No. 144,376; July 5; v. 288; p. 192.
Games and toys. Toy Tinkers. No. 144,484; July 5; v. 288; p. 195.
Gasolene and kerosene. Thomas W. Simmons Company. No. 144,537; July 5; v. 288; p. 200.
Gasolene, naphtha, kerosene, &c. Ohio Refining Company. No. 144,884; July 19; v. 288; p. 621.
Germicides, insecticides, disinfectants. Germ-A-Lene Manufacturing Company. No. 144,573; July 12; v. 288; p. 424.
Ginger-ale. M. Rothstein. No. 144,463; July 5; v. 288; p. 195.
Ginger-ale and ber-cola. J. Berthiaume & Co. No. 144,701; July 19; v. 288; p. 615.
Ginghams in the piece. Sears, Roebuck and Co. No. 144,927; July 19; v. 288; p. 622.
Gloves and mittens. Milwaukee Glove Company. No. 145,153; July 26; v. 288; p. 815.
Gloves and mittens. H. J. Moore Glove Company. No. 144,866; July 19; v. 288; p. 620.
Gloves, Leather. Coulter Dry Goods Company. No. 144,992; July 19; v. 288; p. 626.
Grape-juice. Grape Ola Products Corporation. No. 144,785; July 19; v. 288; p. 618.
Grapefruit and oranges, Fresh. W. A. Simonds. No. 144,933; July 19; v. 288; p. 622.
Gum. S. A. Dreyfus Co. No. 144,749; July 19; v. 288; p. 617.
Gum. L. A. Dreyfus Co. No. 145,075; July 26; v. 288; p. 812.
Gum, Chewing-. Wm. Wrigley Jr. Company. No. 144,501; July 5; v. 288; p. 196.
Guns, Grease-. Deming Company. No. 145,302; July 26; v. 288; p. 817.
Hair and scalp shampoo preparations. Seligman and Latz. No. 144,419; July 5; v. 288; p. 193.
Hair-curlers. A. Steinhardt & Bro. No. 145,292; July 26; v. 288; p. 825.
Hair-cutter and vibrator, Combined electric. Pacific Coast Barber Supply Company. No. 144,620; July 12; v. 288; p. 425.
Hair-grower. R. B. Shields. No. 144,472; July 5; v. 288; p. 195.
Hair-grower, pressing-oil, &c. R. D. St. Clair. No. 144,636; July 12; v. 288; p. 425.
Hair-grower salve and a salve for dressing and beautifying the hair. A. I. Russell. No. 144,626; July 12; v. 288; p. 425.
Hair-nets. National Trading Company. No. 144,880; July 19; v. 288; p. 621.
Hair-nets. National Trading Company. No. 144,906; July 19; v. 288; p. 622.
Hair-nets. Reichman & Faust. No. 145,184; July 26; v. 288; p. 816.
Hair-nets. N. Seligman Merchandise Co. No. 144,928; July 19; v. 288; p. 622.
Hair-nets. G. Vogel. No. 144,965; July 19; v. 288; p. 623.
Hair-restorer. G. R. Henderson. No. 144,414; July 5; v. 288; p. 193.
Hair-tonic. H. A. Cassebeer, Inc. No. 144,558; July 12; v. 288; p. 423.
Hair tonic, grower, and gloss scalp and skin balms, Face-cream, talcum powder. Mrs. Elisabeth V. W. Blake. No. 145,044; July 26; v. 288; p. 811.
Hair-tonic, shampoo, hair-cleanser. Strohmeyer & Arpe Company. No. 144,638; July 12; v. 288; p. 426.
Hair-tonics. Colgate & Co. No. 144,990; July 19; v. 288; p. 626.
Hair-tonics and scalp-dressings. Atlanta Barbers' Supply Co. No. 144,987; July 19; v. 288; p. 625.
Hair wash, Golden-. Charles Marchand Co. No. 144,604; July 12; v. 288; p. 425.
Hardware and bath-room accessories. Adams and Westlake Company. No. 144,333; July 5; v. 288; p. 191.
Harmonicas. Sherman, Clay & Co. No. 144,931; July 19; v. 288; p. 622.
Hats for women and children. Ogus, Rabinovich & Ogus Co. No. 144,909; July 19; v. 288; p. 622.
Hats, Ladies'. Harry Solomons & Son. No. 144,941; July 19; v. 288; p. 623.
Hats, Men's. McKibbin, Driscoll & Dorsey. No. 144,888; July 19; v. 288; p. 620.
Heat-regulators, Thermostatic. Minneapolis Heat Regulator Co. Nos. 145,279–80; July 26; v. 288; p. 824.
Heaters and parts therefor, Electrical. P. J. H. Bernard. No. 144,699; July 19; v. 288; p. 615.
Heating apparatus, Gas. Estate Stove Company. No. 145,092; July 26; v. 288; p. 813.
Hinges. Newport Optical Manufacturing Company. No. 145,281; July 26; v. 288; p. 824.
Holland, Beetled window-. Interstate Shade Cloth Co. No. 145,271; July 26; v. 288; p. 823.
Hosiery. George Borgfeldt & Co. No. 145,045; July 26; v. 288; p. 811.
Hosiery. Carlton Trading Company. No. 144,713; July 19; v. 288; p. 616.
Hosiery. Chipman Knitting Mills. No. 144,720; July 19; v. 288; p. 616.
Hosiery. Hudson Hosiery Co. No. 145,117; July 26; v. 288; p. 814.
Hosiery. S. Mann. No. 144,432; July 5; v. 288; p. 194.
Hosiery for men and ladies. I. C. Eberly. No. 144,751; July 19; v. 288; p. 617.
Hosiery machinery. Volney W. Mason & Co. No. 145,148; July 26; v. 288; p. 815.
Houses, Knockdown. Ray H. Bennett Lumber Co. No. 144,515; July 5; v. 288; p. 198.
Hydraulically pressed and hammered steel forgings. Titusville Forge Company. No. 145,237; July 26; v. 288; p. 817.
Ice-cream. Breyer Ice Cream Company. No. 144,355; July 5; v. 288; p. 191.
Ice-cream. Breyer Ice Cream Company. No. 144,708; July 19; v. 288; p. 616.
Ice-cream. Dixie Ice Cream Company. No. 144,746; July 19; v. 288; p. 617.
Ice-cream. D. D. Strickler. No. 144,671; July 12; v. 288; p. 429.
Ice-cream cones. Bueckheim Bros. & Eckstein. No. 144,900; July 19; v. 288; p. 621.
Ingots of non-ferrous alloys, bars and cylinders of bearing metal, &c. Eagle Brass Foundry Company. No. 145,082; July 26; v. 288; p. 813.
Ink-eradicator. M. C. Hamblet. No. 144,412; July 5; v. 288; p. 193.
Ink for printing and lithographing, Colors used in. G. Siegle Company. Nos. 145,009–10; July 19; v. 288; p. 628.
Ink in powdered form, Indelible writing-. L. Adam. No. 144,983; July 19; v. 288; p. 625.
Ink, Softener and drier for printers'. B. Link. No. 144,664; July 12; v. 288; p. 428.
Inks, Black and red. Citizens Wholesale Supply Company. No. 145,061; July 26; v. 288; p. 812.
Inks, Steel-die printing-. Ault & Wiborg Company of N. Y. No. 145,035; July 26; v. 288; p. 811.
Insect-exterminator. Kenaski Bros. No. 144,423; July 5; v. 288; p. 193.
Insecticides. Sherwin-Williams Company. No. 144,632; July 12; v. 288; p. 425.
Insecticides, fungicides, germicides, &c. Sherwin-Williams Company. No. 144,633; July 12; v. 288; p. 425.
Instruments and appliances of particular metals for laboratories. Rhotanium Company. Nos. 144,457–8; July 5; v. 288; pp. 194–5.
Insulated wire and cable. Illinois Wire & Cable Company. No. 144,418; July 5; v. 288; p. 193.
Insulated wires and cables. Marion Insulated Wire & Rubber Co. No. 144,606; July 12; v. 288; p. 425.
Insulated wires and cables, &c. Hazard Manufacturing Company. No. 144,578; July 12; v. 288; p. 424.
Insulating-sheeting. Keystone Hair Insulator Company. No. 144,592; July 12; v. 288; p. 424.
Insulating supplies, Electric. Albert J. Cox Company. No. 144,374; July 5; v. 288; p. 192.
Insulators, Electric. Jeffery-Dewitt Insulator Company. No. 144,588; July 12; v. 288; p. 424.
Iron and steel sheets. Whitaker-Glessner Company. Nos. 145,297–8; July 26; v. 288; p. 826.
Iron and steel sheets and plates and tin and terne plates. American Sheet and Tin Plate Company. No. 145,026; July 26; v. 288; p. 811.
Jacks, Automatic automobile-. L. M. Fisher. No. 144,392; July 5; v. 288; p. 192.
Jellies and jams. Red Wing Company. No. 145,182; July 26; v. 288; p. 816.
Jelly, Cranberry. E. F. Bills. No. 144,549; July 12; v. 288; p. 428.
Jewelers' findings. M. S. Co. No. 145,162; July 26; v. 288; p. 815.
Jewelry. Napier-Bliss Company. No. 144,870; July 19; v. 288; p. 621.
Jewelry, tableware, &c. Cartier, Inc. No. 144,363; July 5; v. 288; p. 192.
Joints and bolt-cutters, Universal. Universal Machine Company. No. 145,295; July 26; v. 288; p. 826.
Keys and locks. Segal Lock & Hardware Co. No. 144,631; July 12; v. 288; p. 425.
Knit underwear for women. J. L. Hudson Co. No. 144,798; July 19; v. 288; p. 618.
Knitted sweaters and sweater-coats. Keller Knitting Company. No. 144,810; July 19; v. 288; p. 619.
Knitted underwear, Ladies'. Carson Pirie Scott & Co. No. 144,362; July 5; v. 288; p. 192.
Knives, edge-tools, handles. Hyde Manufacturing Company. No. 144,585; July 12; v. 288; p. 424.
Lace pieces, Hand-made. French American Import Co. No. 145,094; July 26; v. 288; p. 813.
Lacquer. Atlantic Chemical Co. No. 144,512; July 5; v. 288; p. 197.
Lamp-burners. White Flame Light Co. No. 145,019; July 19; v. 288; p. 630.
Lamp-posts for electric lights, Metal. Union Metal Manufacturing Company. No. 144,957; July 19; v. 288; p. 623.
Lamps, Electric. Anderson Electric & Equipment Company. No. 144,685; July 19; v. 288; p. 615.
Lamps, Electric-arc. M. J. Wohl & Co. No. 144,978; July 19; v. 288; p. 624.
Lamps, Electric flash-. Dyno Electric Appliance Corporation. No. 144,750; July 19; v. 288; p. 617.
Lamps, Incandescent. Alpha Laboratories, Inc. No. 144,678; July 19; v. 288; p. 615.
Lamps, Portable electric. S. W. Farber. No. 144,758; July 19; v. 288; p. 617.
Lard substitute. O. Wynne. No. 145,211; July 26; v. 288; p. 817.

Lard substitute. O. Wynne. No. 145,213; July 26; v. 288; p. 817.
Lathes and screw-machines, Turret-. Wood Turret Machine Co. No. 145,301; July 26; v. 288; p. 826.
Laundry and cleaning powder. E. R. Bowne. No. 144,858; July 5; v. 288; p. 191.
Laundry-hampers. National Veneer Products Company. No. 144,446; July 5; v. 288; p. 194.
Laxative, Candy. J. F. Zingale. No. 144,504; July 5; v. 288; p. 196.
Leather. Monarch Leather Company. No. 144,863; July 19; v. 288; p. 620.
Leather, Artificial. Sanford Mills. No. 144,918; July 19; v. 288; p. 622.
Leather, Calf-. Creese & Cook Co. No. 145,065; July 26; v. 288; p. 812.
Leather-dressing, metal-polish, and certain cleaning preparations. E. J. Lemire. No. 145,180; July 26; v. 288; p. 814.
Leather, Rawhide side lace-. F. B. Williams. No. 145,207; July 26; v. 288; p. 816.
Leather, Sole-. P. Barbieri. No. 145,039; July 26; v. 288; p. 811.
Letter-heads, circulars, &c. W. P. Southard. No. 145,225; July 26; v. 288; p. 817.
Linen piece goods, napkins, scarfs, &c. B. F. Bailey and Co. No. 144,694; July 19; v. 288; p. 615.
Linens, draperies, handkerchiefs, &c., Household. Maass & Kemper. No. 144,839; July 19; v. 288; p. 620.
Liniment. B. Robins. No. 144,461; July 5; v. 288; p. 195.
Liniment for eczema. J. B. Carlsbergh. No. 144,556; July 12; v. 288; p. 423.
Liniment for rheumatism, neuralgia, and the like. F. L. Case. No. 144,557; July 12; v. 288; p. 423.
Liniment, hair-tonic, and pile-ointment. J. H. Griffith. No. 144,406; July 5; v. 288; p. 193.
Liquids, Meters for measuring the flow of. Republic Flow Meters Co. No. 145,186; July 26; v. 288; p. 816.
Live stock. L. C. Willits. No. 144,498; July 5; v. 288; p. 196.
Long-cloth in the piece. Marshall Field & Company. No. 144,846; July 19; v. 288; p. 620.
Lozenges, Breath-perfume. E. J. Hoadley. No. 144,581; July 12; v. 288; p. 424.
Lumber. May Brothers. Nos. 144,435–8; July 5; v. 288; p. 194.
Machinery, Certain. Austin Machinery Corporation. No. 145,246; July 26; v. 288; p. 820.
Magazine lead-pencils. The Sandfelder Corporation, No. 144,917; July 19; v. 288; p. 622.
Magazine, Monthly. Fidelity National Bank & Trust Co. No. 144,760; July 19; v. 288; p. 617.
Magazine, Monthly art-. American Art Student Publishing Co. No. 144,680; July 19; v. 288; p. 615.
Magazine published monthly, Illustrated. Herald-Leader Company. No. 145,112; July 26; v. 288; p. 813.
Malt for use in beverages. F. J. Roeser. No. 145,190; July 26; v. 288; p. 816.
Marble and cut stone, Finished. Georgia Marble Company, The. Nos. 144,771–2; July 19; v. 288; p. 618.
Matches. Serv-us Grocery Products Corporation. No. 144,470; July 5; v. 288; p. 195.
Mattresses and pillows. A. H. Slater. No. 144,473; July 5; v. 288; p. 195.
Measuring rules and tape. Lufkin Rule Company. Nos. 145,273–4; July 26; v. 288; p. 823.
Meat extract. Jardox Limited. No. 144,814; July 19; v. 288; p. 619.
Medicinal and pharmaceutical preparations. Bellevue Specialty Company. No. 144,346; July 5; v. 288; p. 191.
Medicinal and pharmaceutical preparations. M. L. Moore. No. 145,001; July 19; v. 288; p. 627.
Medicinal compound. Ware Chemical Co. No. 144,490; July 5; v. 288; p. 196.
Medicinal preparation. J. W. Andy. No. 144,511; July 5; v. 288; p. 197.
Medicinal preparation. Esko Products Company. No. 144,387; July 5; v. 288; p. 192.
Medicinal preparation. W. L. Haralson. No. 144,413; July 5; v. 288; p. 193.
Medicinal preparation. J. J. McIntyre. No. 144,431; July 5; v. 288; p. 194.
Medicinal preparation. J. J. Norton. No. 144,447; July 5; v. 288; p. 194.
Medicinal preparation. D. R. Westendorf. No. 144,648; July 12; v. 288; p. 426.
Medicinal preparation for diarrhea, &c. S. Loiacano. No. 144,599; July 12; v. 288; p. 424.
Medicinal preparations. Alligator Liniment Company. No. 145,241; July 26; v. 288; p. 819.
Medicinal preparations. Buffington's Incorporated. No. 144,359; July 5; v. 288; p. 191.
Medicinal preparations. Friedrich-Friedrich Chemical Company. No. 144,572; July 12; v. 288; p. 424.
Medicinal preparations. C. W. Rovegno. No. 144,464; July 5; v. 288; p. 195.
Medicinal preparations. M. L. Sewell. No. 145,008; July 19; v. 288; p. 628.
Medicinal preparations. Shores-Mueller Company. No. 144,475; July 5; v. 288; p. 195.
Medicinal preparations. S. G. Vryonis. No. 144,488; July 5; v. 288; p. 195.
Medicinal preparations used as laxatives. J. H. Mueller. No. 144,618; July 12; v. 288; p. 425.
Medicinal treatment for drunkenness. Dr. M. F. Groves Son & Co. No. 144,407; July 5; v. 288; p. 193.
Medicinal treatment for infantile troubles. Dr. M. F. Groves Son & Co. No. 144,408; July 5; v. 288; p. 193.
Medicine for coughs and colds. Hollander-Koshland Co. No. 144,796; July 19; v. 288; p. 618.
Medicine for rheumatism, gout, &c. Baltimore Scientific Products Co. No. 144,340; July 5; v. 288; p. 191.
Medicine for rheumatism and gout. A. Pellegrino. No. 144,623; July 12; v. 288; p. 425.
Medicine for stomach troubles and stones in the kidney. C. Bulubasis. No. 144,360; July 5; v. 288; p. 191.
Medicine, Liver and stomach. Cox Medicine Company. No. 144,375; July 5; v. 288; p. 192.
Metal, Babbitt. More-Jones Brass & Metal Company. Nos. 145,156–9; July 26; v. 288; p. 815.
Metal-cutting band-saw machines. Metal Saw and Machine Company. Nos. 144,608–9; July 12; v. 288; p. 425.
Metal-polish. G. E. Bennett. No. 144,697; July 19; v. 288; p. 615.
Metals, Antifriction. W. D. Elmore. No. 144,996; July 19; v. 288; p. 627.
Metals, Non-ferrous. Banister & Pollard Co. No. 145,248; July 26; v. 288; p. 820.
Metallic sheets for making molds or matrices. Conley Foil Company, The. No. 144,734; July 19; v. 288; p. 616.
Middy-cloth in the piece. Sears, Roebuck and Co. No. 144,924; July 19; v. 288; p. 622.
Mineral waters. Schweppes, Limited. No. 144,921; July 19; v. 288; p. 622.
Mirrors and windshields for use with cycles and motor-vehicles, View-. Clayton-Wright Ltd. No. 145,209; July 26; v. 288; p. 816.
Mitt used for cleaning and scouring. Jos. Brandt & Bro. No. 144,706; July 19; v. 288; p. 616.
Moisteners, mucilage-applying devices, inkwells, &c. Rivet-O Manufacturing Company. No. 144,899; July 19; v. 288; p. 621.
Motor cars and trucks. Midland Motor Car and Truck Company. No. 145,157; July 26; v. 288; p. 815.
Motor-vehicles—viz., airships, bicycles, &c. Scintilla. No. 144,922; July 19; v. 288; p. 622.
Motorcycle accessories. Fentress-Newton Mfg. Co. No. 144,570; July 12; v. 288; p. 423.
Motorcycles. Société D'Emboutissage, et de Constructions Mecaniques. No. 144,478; July 5; v. 288; p. 195.
Mowers, Lawn-. Dille & McGuire Mfg. Co. Nos. 145,258–63; July 26; v. 288; pp. 821–2.
Music-rolls. Standard Music Roll Co. No. 144,635; July 12; v. 288; p. 425.
Muslin in the piece. Marshall Field & Company. Nos. 144,848–55; July 19; v. 288; p. 620.
Nails, bolts, screws, metallic handles for furniture, &c. Societe Des Moteurs Gnome et Rhone. No. 144,476; July 5; v. 288; p. 195.
Necklaces. H. Wolff & Co. No. 144,979; July 19; v. 288; p. 624.
Needles, toilet and safety pins, shoe-buckles, &c., Hand sewing-. Caravel Company. No. 145,057; July 26; v. 288; p. 812.
Needlework products, Art-. Bernhard Ulmann Co. No. 145,195; July 26; v. 288; p. 816.
Netting in the piece, Mosquito-. Marshall Field & Company. No. 144,845; July 19; v. 288; p. 620.
Nose-rings for animals. Stewart Hog Ring Company. No. 144,479; July 5; v. 288; p. 195.
Notions, Certain named. F. A. Patrick & Co. No. 145,283; July 26; v. 288; p. 824.
Oil and fat residues used as fertilizers. Naamloose Vennootschap Oliefabrieken Insulinde. No. 144,869; July 19; v. 288; p. 621.
Oil-engines. Evinrude Motor Company. No. 144,388; July 5; v. 288; p. 192.
Oil, Kerosene-. Texas Company. No. 144,950; July 19; v. 288 p. 623.
Oil, Motor fuel-. Benzolene Motor Fuel Co. No. 144,348; July 5; v. 288; p. 191.
Oil, Olive-. Pallarés Harmanos. No. 144,795; July 19; v. 288; p. 618.
Oil, Wine of cod-liver. International Drug Company. No. 144,660; July 12; v. 288; p. 427.
Oils and greases. Penn Lubric Oil Company. No. 145,175; July 26; v. 288; p. 815.
Oils and greases. Western Petroleum Co. No. 145,202; July 26; v. 288; p. 816.
Oils and greases, Lubricating. Crew Levick Company. No. 144,520; July 5; v. 288; p. 198.
Oils, Artificial fruit-. Chemical Works Flora. No. 144,365; July 5; v. 288; p. 192.
Oils, Edible vegetable. Littauer Oil Company. No. 144,833; July 19; v. 288; p. 619.
Oils for the production of perfumes. Edward T. Beiser Co. No. 144,345; July 5; v. 288; p. 191.
Ointment for treatment of the hair and scalp. B. F. A. Jones. No. 145,272; July 26; v. 288; p. 823.
Ointment or massage-cream. A. C. Clark. No. 144,368; July 5; v. 288; p. 192.
Oleomargarin. Crown Margarin Company. No. 145,066; July 26; v. 288; p. 812.
Oleomargarin. St. Louis Independent Packing Company. No. 144,538; July 5; v. 288; p. 200.

Olives, catsup, salad-dressing, chilli, mustard, &c. W. Edwards Company, The. No. 144,753; July 19; v. 288; p. 617.
Ovens, stoves, ranges, &c. Bake-Rite Oven Mfg. Company. No. 145,038; July 26; v. 288; p. 811.
Overalls. Keet & Rountree Dry Goods Co. No. 144,818; July 19; v. 288; p. 619.
Packing. J. M. Rhodes. No. 144,983; July 19; v. 288; p. 622.
Packing-house products. Valley Packing Company. No. 144,645; July 12; v. 288; p. 426.
Packing, Journal and like. W. C. Lewis. No. 144,598; July 12; v. 288; p. 424.
Paint, Coal-tar. Cleaver Manufacturing Company. No. 144,369; July 5; v. 288; p. 192.
Paint, Cold-water. Reardon Company. No. 144,898; July 19; v. 288; p. 621.
Paint, Flat wall-. Benjamin Moore & Co. No. 144,864; July 19; v. 288; p. 620.
Paint-pigments and paints. Titan Co. A/S. No. 144,954; July 19; v. 288; p. 623.
Paints and pigments. Thos. Hubbuck & Son. No. 144,904; July 19; v. 288; p. 622.
Paints and pigments, colors, putty, &c. C. A. Nash & Son. No. 144,614; July 12; v. 288; p. 425.
Paints, enamels, varnishes, &c. Ira D. Washburn Company. No. 144,647; July 12; v. 288; p. 426.
Paints for general use. Goheen Corporation. No. 144,777; July 19; v. 288; p. 618.
Paints for houses, barns, and other structures, Outside. Gardiner-McInnes Co. No. 144,523; July 5; v. 288; p. 199.
Paints, Luminous. Gebrüder Junghans, A.-G. Nos. 144,398–9; July 5; v. 288; p. 193.
Paints, white or colored, in powdered, paste or liquid form. Maastrichtsche Zinkwit Maatschappij. Nos. 144,840–1; July 19; v. 288; p. 620.
Paints, varnishes, &c. Louisville Paint Mfg. Co. No. 145,134; July 26; v. 288; p. 814.
Pamphlets and circulars, Series of. Sharples Specialty Company, The. No. 144,535; July 5; v. 288; p. 200.
Paper. H. B. Lounsbury. No. 144,835; July 19; v. 288; p. 619.
Paper and mailing-envelops. Atlantic Paper Company. No. 145,033; July 26; v. 288; p. 811.
Paper and mailing-envelops. Carew Manufacturing Company. Nos. 145,058–9; July 26; v. 288; p. 812.
Paper and mailing-envelops. Hampshire Paper Company. No. 145,107; July 26; v. 288; p. 813.
Paper and paper towels, Toilet-. A. P. W. Paper Co. No. 145,032; July 26; v. 288; p. 811.
Paper and stationery. Buxton & Skinner Printing and Stationery Company. No. 144,361; July 5; v. 288; p. 192.
Paper, Blotting-. Joseph Parker & Son Company. No. 145,172; July 26; v. 288; p. 815.
Paper, Blotting-. Standard Paper Mfg. Co. No. 144,946; July 19; v. 288; p. 623.
Paper, Carbon-. Illinois Carbon & Ribbon Co. No. 144,803; July 19; v. 288; p. 619.
Paper for poster and label work. J. W. Butler Paper Company. No. 145,052; July 26; v. 288; p. 812.
Paper for wiping ink from the faces of dies. Paper Manufacturers Co. No. 145,284; July 26; v. 288; p. 824.
Paper, Gummed. Ideal Coated Paper Company. No. 145,118; July 26; v. 288; p. 814.
Paper, Ledger and writing. Gilbert Paper Company. No. 145,099; July 26; v. 288; p. 813.
Paper, paper napkins and towels, Toilet-. Wortendyke Manufacturing Co. No. 144,500; July 5; v. 288; p. 196.
Paper, Printing or writing. Ashby Printing Company. No. 144,688; July 19; v. 288; p. 615.
Paper, Sheet-. Geo. A. Lehmann Paper Company. No. 144,427; July 5; v. 288; p. 194.
Paper, Sketching-. Keuffel & Esser Company. No. 144,822; July 19; v. 288; p. 619.
Paper, Toilet-. W. T. Cole Paper Company. No. 144,728; July 19; v. 288; p. 616.
Paper towels and napkins. Scott Paper Company. No. 145,216; July 26; v. 288; p. 817.
Paper, Wall-. H. P. Rawlings Wall Paper Co. No. 144,625; July 12; v. 288; p. 425.
Paper, Wrapping and writing. E. J. Stillwell Paper Company. No. 144,637; July 12; v. 288; p. 426.
Paper, Writing-. L. L. Brown Paper Company. No. 144,357; July 5; v. 288; p. 191.
Paper, Writing-. J. W. Butler Paper Company. No. 145,053; July 26; v. 288; p. 812.
Papers. The Central Ohio Paper Company. No. 144,364; July 5; v. 288; p. 192.
Papers. Kalamazoo Vegetable Parchment Co. No. 145,127; July 26; v. 288; p. 814.
Papers, Ledger, writing, and printing. Stone & Andrew. No. 144,480; July 5; v. 288; p. 195.
Papers, paper napkins, &c. Plain and crape tissue. American Tissue Mills. No. 144,684; July 19; v. 288; p. 615.
Papers, Printing-. Knight, Allen & Clark. No. 144,594; July 12; v. 288; p. 424.
Patches, Repair-. Las-Stik Patch Mfg. Co. No. 144,426; July 5; v. 288; p. 194.
Peanut-butter. J. Bernstamm. No. 144,700; July 19; v. 288; p. 615.
Peanut-butter. Walter J. Hirsch Co. No. 145,113; July 26; v. 288; p. 814.
Peanut-oil. Rogers Company. No. 144,901; July 19; v. 288; p. 621.
Pearls, S. Gutter. No. 144,792; July 19; v. 288; p. 618.
Pearls, Imitation. M. Gugenheim, Inc. No. 144,790; July 19; v. 288; p. 618.
Pen-points, Metallic. Francis Pratt & Son. No. 145,178; July 26; v. 288; p. 815.
Pencils and fountain-pens, Stylographic. I. J. Bissell. No. 144,349; July 5; v. 288; p. 191.
Pencils and leads and erasers therefor, Propel-. Hoge Manufacturing Company. No. 145,114; July 26; v. 288; p. 814.
Pencils, Magazine-. Brown & Bigelow. No. 144,356; July 5; v. 288; p. 191.
Perfumes, Liquid and powdered. Colgate & Company. No. 144,724; July 19; v. 288; p. 616.
Periodical house organ published semimonthly. Ford Motor Company. No. 144,766; July 19; v. 288; p. 178.
Periodical, Monthly. National Equipment Company. No. 145,163; July 26; v. 288; p. 815.
Periodical, Title for. Retail Credit Men's Natl. Assn. No. 144,455; July 5; v. 288; p. 194.
Periodical published semi-annually. Apple Hat Company. No. 144,687; July 19; v. 288; p. 615.
Periodicals. J. M. Cattell. No. 145,275; July 26; v. 288; p. 823.
Pharmaceutical preparations. R. M. Bramlette. No. 144,988; July 19; v. 288; p. 625.
Pharmaceutical preparations. A. D. Franklin. No. 144,395; July 5; v. 288; p. 193.
Pharmaceutical preparations. V. Lima. No. 144,428; July 5; v. 288; p. 194.
Phonograph-records. Thomas A. Edison, Incorporated. No. 144,383; July 5; v. 288; p. 192.
Phonograph-records. Funk & Wagnalls Company. No. 144,397; July 5; v. 288; p. 193.
Phonographs. J. E. Christensen. No. 144,367; July 5; v. 288; p. 192.
Phonographs. Davenport Cabinet Works. No. 144,379; July 5; v. 288; p. 192.
Phonographs, phonograph-records, record-albums, needles, &c. New York Recording Laboratories. No. 144,883; July 19; v. 288; p. 621.
Phonographs, phonograph-record ejectors, and phonograph-record ejectors mounted in cabinets. Southern California Hardwood and Manufacturing Company. No. 144,942; July 19; v. 288; p. 623.
Phonographs, talking-machines, &c. P. J. Higgs. No. 144,415; July 5; v. 288; p. 193.
Phonographs. Homestead Phonograph & Violin Manufacturing Company. No. 144,582; July 12; v. 288; p. 424.
Phonographic sound recording and reproducing machines, &c. Columbia Graphophone Manufacturing Co. No. 144,560; July 12; v. 288; p. 423.
Photograph-albums. F. A. Toombs & Co. No. 145,017; July 19; v. 288; p. 629.
Piano-player actions. Lindenburg Piano Company. No. 144,831; July 19; v. 288; p. 619.
Pianos and player-pianos. American Piano Company. No. 144,984; July 19; v. 288; p. 625.
Pianos and player-pianos. Mansfield Piano Co. No. 144,602; July 12; v. 288; p. 424.
Pianos, organs, &c. Marquette Piano Company. No. 144,434; July 5; v. 288; p. 194.
Pianos, Player-. Gulbransen-Dickinson Company. Nos. 144,576–7; July 12; v. 287; p. 424
Pianos, Player-. Price and Teeple Piano Company. No. 144,451; July 5; v. 288; p. 194.
Picture films, Motion-. Associated First National Pictures, Inc. No. 144,690; July 19; v. 288; p. 615.
Pictures, Motion-. Robertson-Cole Company. No. 144,460; July 5; v. 288; p. 195.
Pictures, Motion-. R. C. Smith. No. 145,224; July 26; v. 288; p. 817.
Pictures, Motion. Stoll Film Corporation of America. No. 145,228; July 26; v. 288; p. 817.
Piece goods. Lesher, Whitman & Co. Nos. 145,131–2; July 26; v. 288; p. 814.
Pins for bank and general office use. American Pin Company. No. 144,508; July 5; v. 288; p. 197.
Pins, Safety-. F. Rees. No. 145,183; July 26; v. 288; p. 816.
Pipe-fittings, Metal. E. M. Dart Mfg. Co. No. 145,068; July 26; v. 288; p. 812.
Piston-rings. American Hammered Piston Ring Company. No. 144,543; July 12; v. 286; p. 423.
Plain and galvanized woven-wire concrete-reinforcement. American Steel and Wire Company of New Jersey, The. No. 144,985; July 19; v. 288; p. 625.
Plaster-board. Waldorf Paper Products Company. No. 144,966; July 19; v. 288; p. 624.
Plate-powder. Mappin & Webb. No. 144,603; July 12; v. 288; p. 424.
Plumbing and steam-fitting supplies. Eagle Brass Foundry Company. No. 145,081; July 26; v. 288; p. 812.
Polish for woodwork, tables, and floors. Alex. D. Shaw & Co. No. 144,929; July 19; v. 288; p. 622.
Polish, Metal-. Noxon Chemical Products Co. No. 145,166; July 26; v. 288; p. 815.
Pongee silk in the piece. F. R. Heinick. No. 145,110; July 26; v. 288; p. 813.

Popcorn. American Pop Corn Company. Nos. 144,682–3; July 19; v. 288; p. 615.
Popcorn, Candied. Rueckheim Bros. & Eckstein. No. 144,668; July 12; v. 288; p. 428.
Popcorn, Shelled. H. A. Kesting. No. 144,821; July 19; v. 288; p. 619.
Pork, particularly bacon or strips of pork in bags. Case Provision and Supply Co. No. 144,714; July 19; v. 288; p. 616.
Postmarking, mitering, and other machines. Universal Stamping Machine Company. No. 145,199; July 26; v. 288; p. 816.
Powder compound soluble in water, in itself non-saponaceous, used in solution as a general cleanser. No. 144,775; July 19; v. 288; p. 618.
Powder for making custards and puddings, Cream-. F. Knab. No. 144,825; July 19; v. 288; p. 619.
Powder, Toilet face-. D. Bee. No. 144,844; July 5; v. 288; p. 191.
Preparation for beautifying, &c., the eyelashes and eyebrows. Lashbrow-Laboratories Co. No. 144,425; July 5; v. 288; p. 194.
Preparation for certain named purposes. F. J. Nuccio. No. 144,617; July 12; v. 288; p. 425.
Preparation for destroying parasites and for treating diseases in animals and plants. Thomas Bigg Limited. No. 144,703; July 19; v. 288; p. 615.
Preparation for poisoning vermin and rodents. B. Heller and Company. No. 144,659; July 12; v. 288; p. 427.
Preparation for the scalp. Glover Company. No. 144,574; July 12; v. 288; p. 424.
Preparation for treatment of asthma. C. C. Gouaux. No. 144,408; July 5; v. 288; p. 193.
Price-lists and catalogues, Annual and periodical. F. Tausend. No. 144,539; July 5; v. 288; p. 200.
Publication at present issued quarterly. Threshermen's Review Company. No. 144,952; July 19; v. 288; p. 623.
Publication, Daily. Direct News Service. No. 145,078; July 26; v. 288; p. 812.
Publication, Monthly. E. R. Allured. No. 145,212; July 26; v. 288; p. 817.
Publication, Monthly. Chicago Athletic Association. No. 144,719; July 19; v. 288; p. 616.
Publications, Monthly. A. M. Collins Manufacturing Company. No. 144,726; July 19; v. 288; p. 616.
Publication, Monthly. National Association of Credit Men. No. 144,615; July 12; v. 288; p. 425.
Publications, Trade. Publishing Company. No. 145,238; July 26; v. 288; p. 817.
Pulleys, Steel. Dodge Sales & Engineering Co. No. 145,074; July 26; v. 288; p. 812.
Pumice bricks, Artificial-. Alpha-Lux Company. No. 144,679; July 19; v. 288; p. 615.
Purifying the air in rooms, Metal dishes for disseminating vapors for. L. Gudeman. No. 144,789; July 19; v. 288; p. 618.
Puttees, Spiral. Lockhart Spiral Service Leggings, Inc. No. 144,834; July 19; v. 288; p. 619.
Quilts, sheets, pillow-cases. T. B. Draper. No. 144,748; July 19; v. 288; p. 617.
Razor-strops. Simmons Hardware Company. No. 144,936; July 19; v. 288; p. 623.
Razors. E. Morris. No. 145,161; July 26; v. 288; p. 815.
Razors and hair-trimmers, Safety-. Howard Specialties Company. No. 145,116; July 26; v. 288; p. 814.
Record-book. Motor-Log. No. 144,868; July 19; v. 288; p. 620.
Remedy, Stomach. M. Barzak. No. 144,546; July 12; v. 288; p. 423.
Resistance wires and ribbons. Electrical Alloy Company. No. 144,564; July 12; v. 288; p. 423.
Ribbon and textile fabric in the piece, towels, tapestry, &c. Bernhard Ulmann Co. No. 144,956; July 19; v. 288; p. 623.
Ribbons and certain named piece goods. Johnson Cowdin & Company. No. 145,122; July 26; v. 288; p. 814.
Ribbons and goods in the piece. Johnson, Cowdin & Company. No. 144,818; July 19; v. 288; p. 619.
Ribbons and piece goods of silks and satins and mixtures. Johnson Cowdin & Company. No. 145,123; July 26; v. 288; p. 814.
Ribbons in the piece, Silk and cotton. Rodstein and Hyman. No. 145,189; July 26; v. 288; p. 816.
Ribbons, silk and satin piece goods. Johnson, Cowdin & Company. No. 144,815; July 19; v. 288; p. 619.
Rice. Pacific Rice Growers Association. No. 144,888; July 19; v. 288; p. 621.
Rings, Finger-. Vandervoort Brothers. No. 144,962; July 19; v. 288; p. 623.
Rings, Wedding-. J. A. Meyers & Co. No. 144,860; July 19; v. 288; p. 620.
Roasting-pots. Griswold Mfg. Co. No. 145,267; July 26; v. 288; p. 822.
Roofing, Prepared. Heppes-Nelson Roofing Company. Nos. 144,579–80; July 12; v. 288; p. 424.
Root-beer and ginger-ale. J. B. Council. No. 144,735; July 19; v. 288; p. 616.
Rope, cord, and twine manufactured from vegetable fiber. American Manufacturing Company. No. 144,507; July 5; v. 288; p. 197.
Rope made from fiber. Tubbs Cordage Company. No. 144,955; July 19; v. 288; p. 623.
Rope, twine, and cordage of vegetable fiber. Columbian Rope Co. No. 144,518; July 5; v. 288; p. 198.
Rubber bands, Stationers'. B. F. Goodrich Company. No. 146,102; July 26; v. 288; p. 818.
Rubber boots and shoes. Bourn Rubber Co. No. 144,989; July 19; v. 288; p. 626.
Rubber boots and shoes. Hood Rubber Company. No. 144,527; July 5; v. 288; p. 199.
Rubber gloves. Wilson Rubber Company. Nos. 145,021–3; July 19; v. 288; p. 630.
Rubber hose. B. F. Goodrich Company. Nos. 144,781–2; July 19; v. 288; p. 618.
Rubber hose, rubber and asbestos packing, and brake-lining. Union Rubber & Asbestos Co. No. 144,540; July 5; v. 288; p. 200.
Rubber nipples. Revere Rubber Company. No. 144,456; July 5; v. 288; p. 194.
Rubber patches, Sheet-. Jones & Jones Company. No. 145,124; July 26; v. 288; p. 814.
Rubber stamps. Horder's Incorporated. No. 144,797; July 19; v. 288; p. 618.
Rubber tires and tubes. Cupples Company, Manufacturers. No. 144,521; July 5; v. 288; p. 198.
Rugs and carpets of textile material. M. J. Whittall Associates. Nos. 144,541–2; July 5; v. 288; p. 200.
Rugs, Wool. Sears, Roebuck and Co. No. 145,217; July 26; v. 288; p. 817.
Rust-solvent and lubricant. Halstead Specialties Company. No. 144,793; July 19; v. 288; p. 618.
Sales-registers, Pocket. J. L. Morris. No. 144,867; July 19; v. 288; p. 620.
Salve for aid in congestion and inflammation, &c. J. H. Cole. No. 144,559; July 12; v. 288; p. 423.
Salve for cuts, sore throat, &c. C. E. Zipperer. No. 144,653; July 12; v. 288; p. 426.
Salve for hemorrhoids. S. Basso. No. 144,341; July 5; v. 288; p. 191.
Salve for piles, Medicinal. W. M. Bowman. No. 144,552; July 12; v. 288; p. 423.
Sateen in the piece. Sears, Roebuck and Co. No. 144,467; July 5; v. 288; p. 195.
Satins in the piece. T. J. Mitchell & Co. No. 145,154; July 26; v. 288; p. 815.
Scales, Weighing-. Detroit Automatic Scale Company. No. 145,257; July 26; v. 288; p. 821.
Screen, Marcus horizontal picking-table. Roberts and Schaefer Company. No. 145,287; July 26; v. 288; p. 825.
Seed, Timothy-. H. E. Conklin. No. 145,064; July 26; v. 288; p. 812.
Serge in the piece, Cotton. Sears, Roebuck and Co. No. 144,925; July 19; v. 288; p. 622.
Shade-cloth, Holland. Interstate Shade Cloth Co.. Nos. 145,269–70; July 26; v. 288; p. 822.
Shampoo. E. E. Whiteley. No. 144,496; July 5; v. 288; p. 196.
Shampooing preparation. L. E. A. Stroud. No. 145,016; July 19; v. 288; p. 629.
Sheets and slates for building purposes. N. V. Eerste Nederlandsche Fabriek van Asbest-Cementplaten. No. 144,754; July 19; v. 288; p. 617.
Sheets, pillow-cases, and cotton piece goods. Naumkeag Steam Cotton Co. No. 145,002; July 19; v. 288; p. 627.
Sheets, pillow-cases, and sheeting. Marshall Field & Company. No. 144,847; July 19; v. 288; p. 620.
Shells, toggle-bolts, &c., Expansion-. Paine Company. No. 145,282; July 26; v. 288; p. 824.
Shirts, Men's and boys'. H. Berger. No. 144,698; July 19; v. 288; p. 615.
Shirts, Men's silk. M. Auerbach & Sons. No. 144,693; July 19; v. 288; p. 615.
Shock-absorbers, Pneumatic. Seibel Air-Spring Company. No. 144,468; July 5; v. 288; p. 195.
Shoe-dressing. A. L. Bauer. No. 144,342; July 5; v. 288; p. 191.
Shoe-dressing, cream, and polishing-paste. Falcon Manufacturing Company. No. 144,757; July 19; v. 288; p. 617.
Shoe-polish. G. J. Pellettiere. No. 145,174; July 26; v. 288; p. 815.
Shoe-polishes. Columbus Polish Mfg. Co. No. 144,728; July 19; v. 288; p. 616.
Shoes, Leather, cloth, or canvas. Brauer Bros. Shoe Company. No. 144,707; July 19; v. 288; p. 616.
Shoe-tips from wear, Metal plates to protect. Tiptoes Corporation. Nos. 145,235–6; July 26; v. 288; p. 817.
Shoes, Leather-. H. E. Davis Co. No. 145,069; July 26; v. 288; p. 812.
Shoes, Men's. Brown Shoe Company. No. 145,050; July 26; v. 288; p. 812.
Silk and cotton piece goods. S. M. Levor & Co. No. 144,830; July 19; v. 288; p. 619.
Silk and silk-mixture fabrics in the piece. Wechsler Barber Silk Co. No. 144,696; July 19; v. 288; p. 615.
Silk, cotton, and woolen piece goods and the combinations thereof. J. A. Migel, Inc. No. 144,861; July 19; v. 288; p. 620.
Silk in the piece. Jansen & Pretzfeld. No. 144,813; July 19; v. 288; p. 619.
Silk piece goods. H. R. Mallinson & Co. Nos. 145,139–44; July 26; v. 288; p. 814.
Silk piece goods. John H. Meyer Silk Mills Co. No. 144,858; July 19; v. 288; p. 620.
Silk piece goods, Broad-. Duplan Silk Corporation. Nos. 145,079–80; July 26; v. 288; p. 812.

Silk, wool, linen, cotton, and china-grass piece goods. Bianchini, Férier. No. 144,702; July 19; v. 288; p. 619.
Silk, woolen, &c., piece goods. Haas Brothers Fabrics Corporation. No. 145,105; July 26; v. 288; p. 813.
Silks in the piece, Broad. T. J. Mitchell & Co. No. 145,155; July 26; v. 288; p. 815.
Silks, satins, cotton and linen piece goods, Broad. Charles R. De Bevoise Co. No. 144,788; July 19; v. 288; p. 616.
Sinks and washtrays. Petrium Sanitary Sink Co. No. 145,176; July 26; v. 288; p. 815.
Skins and hides. Bronston Bros. & Co. No. 145,049; July 26; v. 288; p. 812.
Skins, Fur-. S. Kahn. No. 145,126; July 26; v. 288; p. 814.
Soap. Richard Hudnut. No. 144,583; July 12; v. 288; p. 424.
Soap. John Wanamaker, New York. No. 144,967; July 19; v. 288; p. 624.
Soap and soap flakes. Fitzpatrick Bros. No. 144,571; July 12; v. 288; p. 424.
Soap flakes, soap chips, soap. Fitzpatrick Bros. No. 144,762; July 19; v. 288; p. 617.
Soap, Granulated. J. A. Hunnewell. No. 144,800; July 19; v. 288; p. 618.
Soap powder. I. A. Newman. No. 144,882; July 19; v. 288; p. 621.
Soap, Toilet. Remmers Soap Company. No. 144,914; July 19; v. 288; p. 622.
Soaps. H. Gabilla. Nos. 145,095–6; July 26; v. 288; p. 813.
Soaps. Los Angeles Soap Company. No. 145,133; July 26; v. 288; p. 814.
Soaps and soap powders. Grain Soaps Corporation. No. 145,103; July 26; v. 288; p. 813.
Soaps, shaving-cream, Toilet and shaving. M. F. Judell. No. 144,421; July 5; v. 288; p. 193.
Soda biscuits and crackers. J. B. Carr Biscuit Co. No. 144,517; July 5; v. 288; p. 198.
Soda-fountains. American Show Case and Mfg. Co. No. 145,025; July 26; v. 288; p. 811.
Soldering and tinning fluxes, &c. Reade Manufacturing Company. No. 144,452; July 5; v. 288; p. 194.
Soldering fluids, soldering-paste, soldering-salts, tinning solution, and soldering-flux. Reade Mfg. Co. No. 145,005; July 19; v. 288; p. 628.
Sole-leather. United States Leather Company. No. 144,486; July 5; v. 288; p. 195.
Spark-plugs. Griffin Mfg. Co. No. 144,999; July 19; v. 288; p. 618.
Spark-plugs. Porter Company. No. 145,177; July 26; v. 288; p. 815.
Stationery. Hall Lithographic Co. No. 144,999; July 19; v. 288; p. 627.
Stationery. Kalamazoo Loose Leaf Binder Company. Nos. 144,661–3; July 12; v. 288; p. 428.
Steel bars for drills, Hollow and solid. Halcomb & Davidson. No. 116,712; July 26; v. 288; p. 813.
Steel bars, rods, billets, blooms, &c. Crucible Steel Company of America. No. 145,067; July 26; v. 288; p. 812.
Steel, Hot and cold rolled strip-. Worcester Pressed Steel Company. No. 145,208; July 26; v. 288; p. 816.
Stereopticons, Ediscope Mfg. Co. No. 144,563; July 12; v. 288; p. 423.
Stone-crushers, &c. Traylor Engineering & Manufacturing Co. No. 144,641; July 12; v. 288; p. 426.
Stoves used in making toast, Electric. Westinghouse Electric & Manufacturing Company. No. 144,675; July 12; v. 288; p. 429.
Suction-cleaners, sadirons, fans, &c., Electric. Blue Bird Manufacturing Company. No. 144,551; July 12; v. 288; p. 423.
Suits and outer coats, dresses, wraps, skirts, Ladies', misses', and juniors'. I. Grossman & Son. No. 144,788; July 19; v. 288; p. 618.
Suits and overcoats. Wallace, Scott & Co. No. 144,489; July 5; v. 288; p. 196.
Suits, Boys'. Cohen, Endel & Co. No. 144,725; July 19; v. 288; p. 616.
Sweaters, mufflers, &c. Mengart Knitting Mills. No. 145,150; July 26; v. 288; p. 815.
Sweeping compound. Oklahoma Janitor Supply Company. No. 144,885; July 19; v. 288; p. 621.
Syrups and molasses for table use. Langhoff Bros. Co. No. 144,828; July 19; v. 288; p. 619.
Syrups, Table-. Langhoff Bros. Co. No. 144,597; July 12; v. 288; p. 424.
Tablet, Laxative. United States Chemical Co. No 144,485; July 5; v. 288; p. 195.
Tablets, School-. J. N. Tinsley. No. 145,234; July 26; v. 288; p. 817.
Tacks and channel, &c., nails, Shoe-. United States Tack Co. No. 148,198; July 26; v. 288; p. 816.
Tacks, Cut. G. G. Roberts Corporation. No. 145,188; July 26; v. 288; p. 816.
Tacks, Thumb-. J. H. Taylor. No. 144,639; July 12; v. 288; p. 426.
Tags, Remnant-. H. Zuckerman. No. 145,214; July 26; v. 288; p. 817.
Tea. William Braid & Company. No. 144,383; July 5; v. 288; p. 191.
Tea. Yangtze Corporation. No. 144,981; July 19; v. 288; p. 624.
Tea, coffee, cocoa, spices. S. D. Abrams. No. 144,677; July 19; v. 286; p. 615.
Teeth, Preparation for cleansing false. H. S. Scranton. No. 144,630; July 12; v. 288; p. 425.
Telephone apparatus. Western Electric Company. No. 144,493; July 5; v. 288; p. 196.
Thread, Linen. Linen Thread Company. No. 144,832; July 19; v. 288; p. 619.
Thread, Silk. Belding Bros. & Co. No. 145,041; July 26; v. 288; p. 811.
Threads and yarns. Sea Island Thread Co. No. 145,222; July 26; v. 288; p. 817.
Threads of flax, hemp, &c. Blackstaff Flax Spinning & Weaving Co. No. 144,350; July 5; v. 288; p. 191.
Threads of flax, hemp, &c. Blackstaff Flax Spinning & Weaving Company. No. 145,043; July 26; v. 288; p. 811.
Ticking in the piece. Sears, Roebuck and Co. No. 145,220; July 26; v. 288; p. 817.
Tiles, Wall, floor, and ceiling. American Encaustic Tiling Co. No. 144,506; July 5; v. 288; p. 197.
Tire fabric, Canvas, duck, &c. W. W. Edelstone. No. 145,084; July 26; v. 288; p. 813.
Tire-patches. Justa Manufacturing Company. No. 145,125; July 26; v. 288; p. 814.
Tire-repair composition. G. W. Collins. No. 144,727; July 19; v. 288; p. 616.
Tires and inner tubes, Resilient. Firestone Tire and Rubber Company. No. 144, 391; July 5; v. 288; p. 192.
Tires and tubes for vehicles. Racine Rubber Company. Nos. 145,180–1; July 26; v. 288; p. 816.
Tires and tubes, Rubber. National Tire & Rubber Company. No. 144,879; July 19; v. 288; p. 621.
Tires, casings, and tubes, Rubber. Marathon Tire & Rubber Co. No. 144,433; July 5; v. 288; p. 194.
Tires, casings, and tubes, Rubber. Marathon Tire & Rubber Co. No. 144,859; July 19; v. 288; p. 620.
Tires, Outer tubes or shoes for pneumatic. Service Auto Equipment Corporation. No. 145,007; July 19; v. 288; p. 628.
Tires, Rubber. Denman-Myers Cord Tire Company. No. 144,740; July 19; v. 288; p. 617.
Tires, Rubber. Doss Rubber & Tube Co., Inc., The. Nos. 144,993–5; July 19; v. 288; p. 625.
Tires, Rubber pneumatic. Victory Rubber Manufacturing Co. No. 145,200; July 26; v. 288; p. 816.
Tires, Rubber vehicle-. Hartford Rubber Works Company. No. 145,109; July 26; v. 288; p. 813.
Tires, Rubber vehicle. Revere Rubber Company. No. 145,186; July 26; v. 288; p. 816.
Tires, Rubber vehicle-. United States Tire Company. No. 145,018; July 19; v. 288; p. 629.
Tires, tubes, outer cases. Braender Rubber & Tire Co. No. 145,046; July 26; v. 288; p. 811.
Tissue, Book and document mending. F. A. Stewart. No. 145,227; July 26; v. 288; p. 817.
Toilet preparations. Crown Chemical Company. No. 144,561; July 12; v. 288; p. 423.
Toilet preparations. Puritan Pharmaceutical Co. No. 144,896; July 19; v. 288; p. 621.
Toilet preparations, nerve-paste, &c. S. S. White Dental Manufacturing Company. No. 144,676; July 12; v. 288; p. 429.
Tonic, General. F. A. East. No. 144,381; July 5; v. 288; p. 192.
Tonic, General. Chester Kent & Co. No. 144,591; July 12; v. 288; p. 424.
Tonic, Laxative. D. G. Pardue. No. 144,621; July 12; v. 288; p. 425.
Tonic, Medicine. Dr. Peter Fahrney & Sons Co. No. 144,568; July 12; v. 288; p. 423.
Tools for handling casks, &c. S. C. Allen. No. 145,024; July 26; v. 288; p. 811.
Tools, Hand-. Collins Company. No. 145,062; July 26; v. 288; p. 812.
Tools, Hand and machine. Easterbrook Allcard & Co. No. 144,382; July 5; v. 288; p. 192.
Toothbrushes. Geo. R. Gibson Company. Nos. 144,778–4; July 19; v. 288; p. 618.
Traction devices for use on automobile-wheels. Rowe Calk & Chain Company. No. 145,193; July 26; v. 288; p. 816.
Tractors, internal-combustion engines, &c. Samson Tractor Company. No. 144,466; July 5; v. 288; p. 195.
Tractors, traction-engines, &c. Toro Manufacturing Company. No. 144,640; July 12; v. 288; p. 426.
Translucent gelatinous sheets. Gelatold Corporation. No. 145,098; July 26; v. 288; p. 813.
Treads, Sure-On Tire Saver Co. No. 144,481; July 5; v. 288; p. 195.
Tripoli flour. American Tripoli Company. Nos. 144,509–10; July 5; v. 288; p. 197.
Tripoli flour, (ground Tripoli stone.) American Tripoli Company. Nos. 145,243–5; July 26; v. 288; p. 819.
Trucks, Motor-. Wichita Motors Company. No. 145,020; July 19; v. 288; p. 630.
Twine and fiber cord. American Net & Twine Co. No. 144,681; July 19; v. 288; p. 615.
Typewriter-keys, twirler-rings, &c. Peerless Key Co. No. 145,285; July 26; v. 288; p. 824.
Typewriter-ribbons and carbon-paper. H. W. Du Bois & Co. No. 146,078; July 26; v. 288; p. 812.
Typewriter-ribbons and carbon-paper. G. F. Yancey. No. 144,503; July 5; v. 288; p. 196.

Typewriters. Federal Adding Machine Corporation. No. 145,265; July 26; v. 288; p. 822.
Typewriters. H. F. Simon. No. 145,290; July 26; v. 288; p. 825.
Typewriting-machines, &c. Elliott-Fisher Company. No. 145,088; July 26; v. 288; p. 813.
Vacuum-cleaners, Electric. Richmond Radiator Company. No. 144,459; July 5; v. 288; p. 195.
Valves. Everlasting Valve Company. No. 145,264; July 26; v. 288; p. 822.
Valves, belting, hose, &c. B. F. Goodrich Company. No. 144,401; July 5; v. 288; p. 193.
Valves, Metal. T. McAvity and Sons. No. 145,135; July 26; v. 288; p. 814.
Valves, Pump-. B. F. Goodrich Company. No. 144,402; July 5; v. 288; p. 193.
Vanilla concentrate, Compound-. M. De Groote. No. 145,071; July 26; v. 288; p. 812.
Vegetable compound for shortening, &c. Globe cotton Oil Mills. No. 144,776; July 19; v. 288; p. 618.
Vehicle bodies or frames. Baker R & L Company. No. 144,514; July 5; v. 288; p. 198.
Vehicles and parts thereof, Motor-. Dodge Brothers. No. 144,522; July 5; v. 288; p. 198.
Velvets in the piece. Bennett and Aspden Company. No. 145,251; July 26; v. 288; p. 820.
Ventilators and chimney-caps. Standard Ventilator Company. No. 145,015; July 19; v. 288; p. 629.
Vulcanized-fiber toothed wheels and pickers for looms. Aktiebolaget Tidan. No. 145,233; July 26; v. 288; p. 817.
Waists, Women's and girls'. H. Schwarz. No. 144,533; July 5; v. 288; p. 200.
Wall-board and building-paper. Emerson-Carey Fibre Products Company. No. 145,090; July 26; v. 288; p. 813.
Washers, Metal and lock. Smith & Hemenway Company. No. 144,940; July 19; v. 288; p. 623.
Washing compounds. Keene Washing Products Company. No. 145,128; July 26; v. 288; p. 814.
Washing-powder. The Procter and Gamble Company. No. 144,895; July 19; v. 288; p. 621.
Washing-tablets. M. Iverson. No. 144,812; July 19; v. 288; p. 619.
Waste-cotton strips, Egyptian-. New England Waste Company. No. 144,881; July 19; v. 288; p. 621.
Watch mainsprings and glasses. H. Paulson. No. 145,173; July 26; v. 288; p. 815.
Watch-movements. Illinois Watch Case Company. No. 144,804; July 19; v. 288; p. 619.
Watches. Union horlogère. No. 144,644; July 12; v. 288; p. 426.
Watches and watch-movements. R. A. Gaell. No. 144,409; July 5; v. 288; p. 193.
Watches and watch-movements. Jules Racine & Co. No. 144,627; July 12; v. 288; p. 425.
Watches and watch parts. Star Watch Case Co. No. 144,634; July 12; v. 288; p. 425.
Watches, clocks, and parts thereof. Meyer & Stilldell. Nos. 144,439–40; July 5; v. 288; p. 194.
Watches, watchcases, watch-movements. B. Gutter & Sons. No. 144,791; July 19; v. 288; p. 618.
Water and its products, Natural spring-. Chippewa Springs Corporation. No. 144,721; July 19; v. 288; p. 616.
Waters, Mineral. White Rock Mineral Springs Company. No. 145,203; July 26; v. 288; p. 816.
Waterproof and weatherproof coats. United States Rubber Company. No. 144,958; July 19; v. 288; p. 623.
Waterproof cement. Vortex Manufacturing Company. No. 144,674; July 12; v. 288; p. 429.
Waterproof garments for small children. A. M. M. White. No. 144,973; July 19; v. 288; p. 624.
Waterproof roofing-sheets and shingles. Barber Asphalt Paving Company. No. 144,695; July 19; v. 288; p. 615.
Webbing, cord, and braid, dress-belting, Elastic. Omo Manufacturing Co. No. 145,167; July 26; v. 288; p. 815.
Welding electrodes, Metal-. Electric Arc Cutting and Welding Company. No. 145,086; July 26; v. 288; p. 813.
Well drilling or boring apparatus and accessories, Oil and gas. Lucey Manufacturing Corporation. No. 144,430; July 5; v. 288; p. 194.
Windows and windshields, Preparation for preventing misting of. J. J. Cook Chemical Co. No. 145,255; July 26; v. 288; p. 821.
Wines. O'Brien & Co. No. 144,618; July 12; v. 288; p. 425.
Woolen goods in the piece. Andrews Mill Company. No. 145,031; July 26; v. 288; p. 811.
Woolen piece goods. Angora Specialty Co. No. 144,686; July 19; v. 288; p. 615.
Woolen piece goods. Forstmann & Huffmann Company. No. 144,767; July 19; v. 288; p. 617.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 144,769–70; July 19; v. 288; pp. 617–8.
Woolen piece goods and cloths. Bruner Woolen Company. No. 144,709; July 19; v. 288; p. 616.
Worm preventive, Screw-. C. C. Parker. No. 144,622; July 12; v. 288; p. 425.
X-ray apparatus, electrical time-switches, and speed-governors, &c. International Devices Company. No. 144,808; July 19; v. 288; p. 619.
Yarn, Artificial-silk. Senor & Wertheim. No. 145,223; July 26; v. 288; p. 817.
Yarn, thread-floss, &c. Bernhard Ulmann Co. No. 145,194; July 26; v. 288; p. 816.
Yarns and threads. Dexter Yarn Company. No. 145,072; July 26; v. 288; p. 812.
Yarns, Silk. J. D. Rogers. No. 145,192; July 26; v. 288; p. 816.
Yeast employed in the fermentation of doughs, Mixture for stimulating the propagation of. Economic Materials Co. No. 144,752; July 19; v. 288; p. 617.
Zinc oxid. New Jersey Zinc Company. No. 144,530; July 5; v. 288; p. 199.

ALPHABETICAL LIST OF LABELS.

"A Delightful Hair Dressing." (For Treatment of Dandruff and Itching Scalp.) The Herpicide Company. Nos. 23,115–16; July 12; v. 288; p. 430.
"A Wax for a Good Dancing Floor." (For a Preparation Specially Adapted for Use on Floors.) J. P. Steidle. No. 23,106; July 5; v. 288; p. 202.
"Acme Arch Grip Shoe." (For Shoes.) Geo. E. Coffin Shoe Co. No. 23,065; July 5; v. 288; p. 201.
"Amho Heath Jacket." (For Heath Jackets, Garments for Sportsmen.) American Hosiery Company. No. 23,053; July 5; v. 288; p. 201.
"Apache." (For Cigars.) Trans-Pacific Trading Company, Inc. No. 23,151 July 26; v. 288; p. 827.
"Aseptifume." (For a Preparation Used to Destroy Obnoxious Odors and for Purifying the Air in Coolers, Rendering-Rooms, and Hide-Rooms.) B. Heller & Co. No. 23,078; July 5; v. 288; p. 201.
"Belch Chocolate Milk Nougat." (For Candy.) P. F. Belch Company. No. 23,055; July 5; v. 288; p. 201.
"Belle Meade Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,086; July 5; v. 288; p. 201.
"Better Blocks." (For Candy.) The Gordon Chocolate Company. No. 23,120; July 26; v. 288; p. 827.
"Bon Santé Baume, a Home Treatment for Hemorrhoids." (For Boxes Containing a Balm for Hemorrhoids.) Bon Santé Company. No. 23,057; July 5; v. 288; p. 201.
"Bon Santé Glycerine Tonic." (For a General Systematic Tonic.) Bon Santé Company. No. 23,058; July 5; v. 288; p. 201.
"Bon Santé Laxative." (For Boxes Containing a Laxative Medicine.) Bon Santé Company. No. 23,059; July 5; v. 288; p. 201.
"Bon Santé Nerve Tonic Tablets." (For Nerve-Tonic Tablets for Tired Nerves.) Bon Santé Company. No. 23,060; July 5; v. 288; p. 201.
"Bon Santé Baume Good Health Balm, a Home Treatment for Diseases of Women." (For Boxes Containing a Medicine for Diseases of Women.) Bon Santé Company. No. 23,061; July 5; v. 288; p. 201.
"Bon Santé Baume (Good Healthy Balm)." (For Boxes Containing Medicine for Stomach Trouble.) Bon Santé Company. No. 23,122; July 26; v. 288; p. 827.
"Bon Santé Ointment." (For Boxes Containing Ointment.) Bon Santé Company. No. 23,121; July 26; v. 280; p. 827.
"Boulevard." (For Shoe-Trimmings and Top-Facing.) Woodward & Cochey, Inc. No. 23,111; July 5; v. 288; p. 202.
"Caligrapo." (For Concentrated Grape Products in the Form of Grape Syrups.) California Grape Products Co. No. 23,123; July 26; v. 288; p. 827.
"Certified Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,082; July 5; v. 288; p. 201.
"Checker Insecticide." (For Garden-Insecticides.) Oshkosh Seed Company. No. 23,145; July 26; v. 288; p. 827.
"Children's Grey Sleeping Garments." (For Sleeping-Garments.) E-Z Waist Company. No. 23,069; July 5; v. 288; p. 201.
"Choc'-Ō-La." For Non-Alcoholic Beverage.) Choc'-Ō-La Co. No. 23,114; July 12; v. 288; p. 430.
"Chocolate Coated Dates." (For Boxes Containing Chocolate-Coated Dates.) Milwaukee Paper Box Company. No. 23,090; July 5; v. 288; p. 202.
"Chocolate Milk Sugar Only." (For Candy.) The Gordon Chocolate Company. No. 23,128; July 26; v. 288; p. 827.

"Delcolates." (For Boxes Containing Chocolate Creams, Milk-Chocolates, Nut Centers, and Nougats.) Milwaukee Paper Box Company. No. 23,088; July 5; v. 288; p. 202.
"Deodorine." (For Receptacles Containing Deodorine.) B. Heller & Co. No. 23,134; July 26; v. 288; p. 827.
"Dodge." (For Canned Peaches.) Dodge, Sweeney & Co. No. 23,067; July 5; v. 288; p. 201.
"Dodge." (For Canned Peas.) Dodge, Sweeney & Co. No. 23,068; July 5; v. 288; p. 201.
"Egg-Saver." (For a Solution of Sodium Silicate.) Home Products, Inc. No. 23,139; July 26; v. 288; p. 827.
"Fadden's Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,143; July 26; v. 288; p. 827.
"Favorite Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,089; July 5; v. 288; p. 202.
"First National Tasteless Solution of Epsom Salt." (For Bottles Containing a Tasteless Solution of Epsom Salt.) First National Pharmacy. No. 23,070; July 5; v. 288; p. 201.
"Fussell's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,142; July 26; v. 288; p. 827.
"Gilmer Woven Endless Fan Belts." (For Fan-Belts.) L. H. Gilmer Company. No. 23,072; July 5; v. 288; p. 201.
"Gilmer Woven Endless Fan Belts for Tractors." (For Fan-Belts.) L. H. Gilmer Company. No. 23,075; July 5; v. 288; p. 201.
"Gilmer Woven Endless Fan Belts for Trucks." (For Fan-Belts.) L. H. Gilmer Company. No. 23,076; July 5; v. 288; p. 201.
"Gilmer Woven Endless Ford Fan Belts." (For Fan-Belts.) L. H. Gilmer Company. No. 23,073; July 5; v. 288; p. 201.
"Gilmer Woven Endless Ford Fan Belts." (For Fan-Belts.) L. H. Gilmer Company. No. 23,074; July 5; v. 288; p. 201.
"Gold Chain." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,085; July 5; v. 288; p. 201.
"Gordon Milk and Chocolate Supreme." (For Chocolate Bars.) The Gordon Chocolate Co. No. 23,127; July 26; v. 288; p. 827.
"Handi-Hanger Broom." (For Brooms and Whisk-Brooms.) Acme Broom Company. No. 23,120; July 26; v. 288; p. 827.
"Helleman's New Style Lager." (For Cereal Beverages.) G. Helleman Brewing Co. No. 23,130; July 26; v. 288; p. 827.
"Heller's Sanitary Fluid." (For Containers Holding Heller's Sanitary Fluid, a Germicidal and Antiseptic Preparation.) B. Heller & Co. No. 23,079; July 5; v. 288; p. 201.
"Helm's Candi-Lax." (For Fruit Laxative.) Candi-Lax Mfg. Company. No. 23,062; July 5; v. 288; p. 201.
"Helen's Candi-Lax." (For Fruit Laxative.) Candi-Lax Mfg. Company. No. 23,063; July 5; v. 288; p. 201.
"Hudson Bacon." (For Bacon.) Joseph Stern & Sons, Inc. No. 23,148; July 26; v. 288; p. 827.
"Hudson Boiled Ham." (For Boiled Ham.) Joseph Stern & Sons, Inc. No. 23,149; July 26; v. 288; p. 827.
"Hudson Ham." (For Ham.) Joseph Stern & Sons, Inc. No. 23,150; July 26; v. 288; p. 827.
"I-X-L." (For Receptacles Containing I-X-L, a Cleansing Preparation.) B. Heller & Co. No. 23,135; July 26; v. 288; p. 827.
"Jackson Core." (For Automobile-Radiator Cores.) Jackson Auto Radiator Co. No. 23,080; July 5; v. 288; p. 201.
"Jersey." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,087; July 5; v. 288; p. 201.
"Joliet's H. S. Finest Cigars." (For Cigars.) G. Schoettes. No. 23,101; July 5; v. 288; p. 202.
"Kiddie Knead." (For Bread.) Ruch-Droppp Grocery Co. No. 23,099; July 5; v. 288; p. 202.
"Kisaki." (For Nainsook.) Charles L. Poor Co. No. 23,097; July 5; v. 288; p. 202.
"Kothlow's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,084; July 5; v. 288; p. 201.
"Lasker's Moose Yarns." (For Woolen and Worsted Yarns.) Star Merchandise Company. No. 23,147; July 26; v. 288; p. 827.
"Life Saver Pats Butter Scotch." (For Candies with a Butter-Scotch Flavor.) Mint Products Company, Inc. No. 23,091; July 5; v. 288; p. 202.
"Life Saver Pats Lemon." (For Candies with a Lemon Flavor.) Mint Products Company, Inc. No. 23,092; July 5; v. 288; p. 202.
"Life Saver Pats Lime." (For Candies with a Lime Flavor.) Mint Products Company, Inc. No. 23,094; July 5; p. 288; p. 202.
"Life Saver Pats Orange." (For Candies with an Orange Flavor.) Mint Products Company, Inc. No. 23,093; July 5; v. 288; p. 202.
"Liquid Salatone." (For a Remedy for Epileptic Fits.) L. G. Shedd. No. 23,102; July 5; v. 288; p. 202.
"Malted-Mil-Krisps." (For a Popcorn Confection.) E. S. Sherratt. No. 23,104; July 5; v. 288; p. 202.
"Mar-Randa." (For Hair-Shampoo.) J. B. Mara. No. 23,140; July 26; v. 288; p. 827.
"Melrosine." (For Insecticides for the Destruction of Rose-Bugs.) Garden Chemical Co., Inc. No. 23,126; July 26; v. 288; p. 827.
"Miracle Washing Crystals." (For Washing Clothes, Windows, Woodwork, Dishes, and for Cleaning Purposes.) Cargill Brothers. No. 23,064; July 5; v. 288; p. 201.
"Mrs. Shepard's Apple Flakes." (For Packages or Containers Containing Flaked and Cooked Apples.) Shepard Fruit Products Company. No. 23,103; July 5; v. 288; p. 202.
"Mrs. Thompson's Home Dentist." (For a Preparation of Olive-Oil 99% and Pure Vanilla 1% for Toothache.) Mrs. Ida Thompson. No. 23,109; July 5; v. 288; p. 202.
"Nuttiea." (For Candy of Nut Variety.) R. G. Morle. No. 23,144; July 26; v. 288; p. 827.
"Peyton Linen Lawn." (For Correspondence-Paper.) Peyton Paper Co. No. 23,118; July 12; v. 288; p. 430.
"Pureza." (For Condensed Milk.) Juan & McCormack. No. 23,117; July 12; v. 288; p. 430.
"Oasis." (For Beverages.) H. Conover. No. 23,066; July 5; v. 288; p. 201.
"$1 000.00 Guaranteed Ant-Bane." (For Cans Containing Guaranteed Ant-Killer.) B. Heller & Co. No. 23,132; July 26; v. 288; p. 827.
"$1 000 00 Guaranteed Rat and Mice Killer." (For Cans Containing a Guaranteed Rat and Mice Killer.) B. Heller & Co. No. 23,131; July 26; v. 288; p. 827.
"$1 000 00 Guaranteed Roach Killer." (For Cartons Containing Cans of a Roach-Killer.) B. Heller & Co. No. 23,077; July 5; v. 288; p. 201.
"$1 000.00 Guaranteed Roach Killer." (For Cans Containing a Guaranteed Roach-Killer.) B. Heller & Co. No. 23,133; July 26; v. 288; p. 827.
"Port Syrup." (For Syrups for Mixing Soft Drinks.) Monarch Bitters Co. No. 23,096; July 5; v. 288; p. 202.
"Premier Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,083; July 5; v. 288; p. 201.
"Rat Fire." (For a Rat-Poison.) P. S. Frick. No. 23,071; July 5; v. 288; p. 201.
"Red Arrow Brand." (For Citrus Fruits.) Shamie Bros. No. 23,146; July 26; v. 288; p. 827.
"Rubber Shoe Repair Patch." (For Repair-Patches for Rubber Footwear.) Robertson & Sons Shoe Repairers. No. 23,098; July 5; v. 288; p. 202.
"Sargent Paint." (For Paint.) Sargent-Gerke Co., The. No. 23,100; July 5; v. 288; p. 202.
"Sherry Syrup." (For Syrups for Mixing Soft Drinks.) Monarch Bitters Co. No. 23,095; July 5; v. 288; p. 202.
"Smiling Baby." (For Infants' Bath-Robes.) Federal Underwear Co. No. 23,125; July 26; v. 288; p. 827.
"Smith Smart Shoes." (For Shoes.) J. P. Smith Shoe Co. No. 23,105; July 5; v. 288; p. 202.
"Snow." (For Receptacles Containing Snow, a Preparation for Use in the Manufacture of Ice-Cream.) B. Heller & Co. No. 23,136; July 26; v. 288; p. 827.
"Starley's Rheumatic Remedy." (For a Remedy for Rheumatism.) Starley Drug Company. No. 23,119; July 12; v. 288; p. 430.
"Stevens Kros Stitch Bed-Spread." (For Bedspreads.) Stevens Manufacturing Co. No. 23,107; July 5; v. 288; p. 202.
"Sun River Ointment." (For Ointment.) Sun River Chemical Company. No. 23,108; July 5; v. 288; p. 202.
"Sunset Nut-Margarine." (For Cartons Containing Oleomargarin.) Menasha Printing and Carton Company. No. 23,141; July 26; v. 288; p. 827.
"Sweet Grenna." (For a Prepared Cereal Food.) E. Berliner. No. 23,056; July 5; v. 288; p. 201.
"Teneo." (For Snap-Fasteners.) American Fastener Co. No. 23,052; July 5; v. 288; p. 201.
"Towle's Wigwam." (For Syrup.) Log Cabin Products Company, The. No. 23,081; July 5; v. 288; p. 201.
"Trustment." (For Printed Matter, Insurance-Policies, Shares of Stock, Bonds, and other Certificates of Indebtedness.) F. J. Cooper. No. 23,124; July 26; v. 288; p. 827.
"Varn-I-Glo." (For Cans Containing Varn-I-Glo, a Furniture-Polish.) B. Heller & Co. No. 23,137; July 26; v. 288; p. 827.
"Ward's Cake." (For Cake.) H. D. Beach Co. No. 23,054; July 5; v. 288; p. 201.
"Wetproof." (For Shoe-Dressing.) P. Thoreson. No. 23,110; July 5; v. 288; p. 202.
"White Naphtha Borax Soap." (For Soap.) A. Hoefner & Sons. No. 23,138; July 26; v. 288; p. 827.
"Wrigley's Peppermint Chewing Gum." (For Chewing-Gum.) Wm. Wrigley, Jr., Company. Nos. 23,112–13; July 5; v. 288; p. 202.

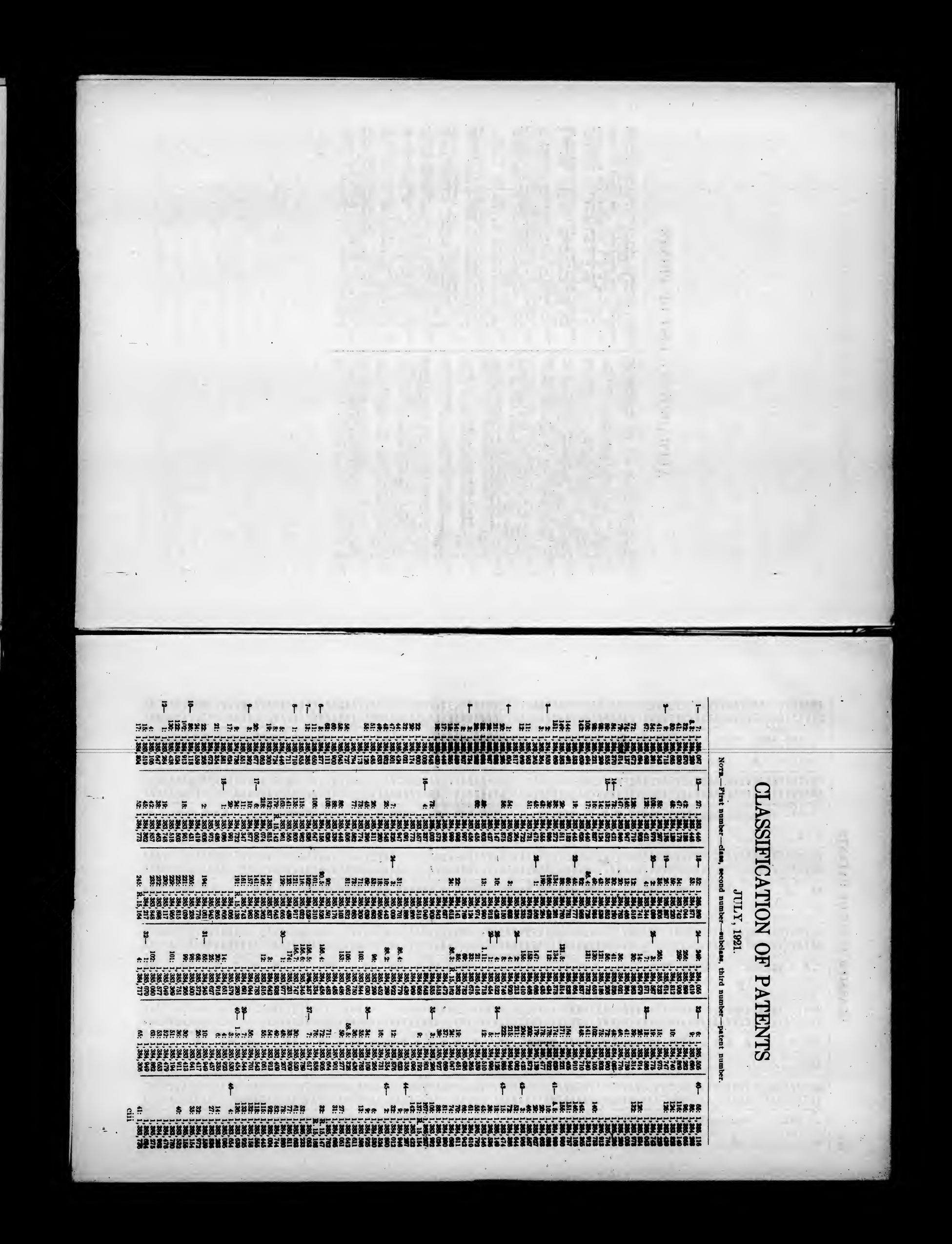
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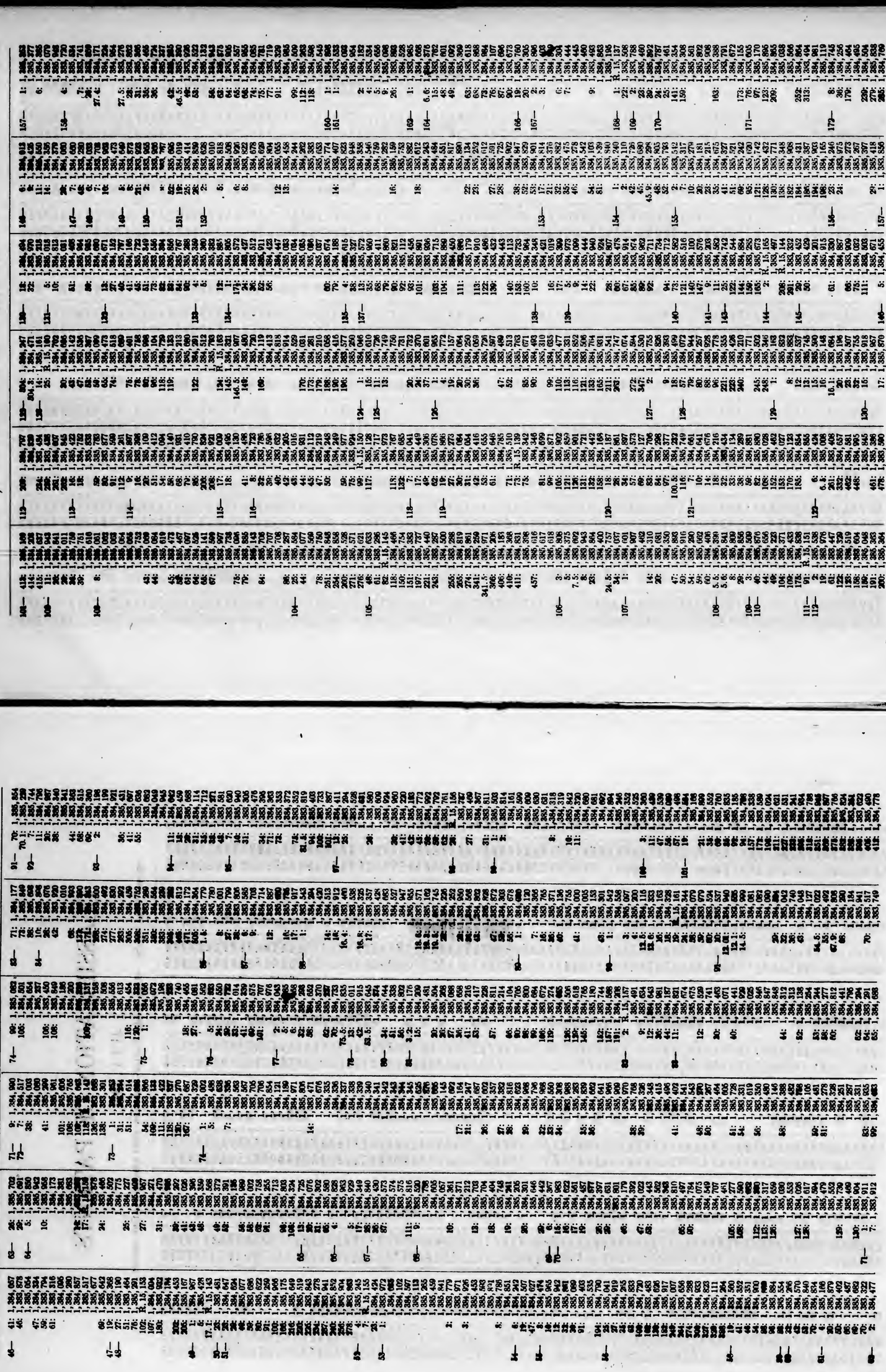
"Acme Dial Planchette No. 1." (For Advertising Purposes for Planchettes.) W. A. Urie. No. 5,674; July 5; v. 288; p. 203.
"After the Hike." (For Advertising Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 5,683; July 26; v. 288; p. 828.
"B. V. D. 1921 Youths' Union Suit." (For Advertising Purposes for Athletic Underwear.) The B. V. D. Company. No. 5,658; July 5; v. 288; p. 203.
"Battery Service." (For Advertising Purposes for Secondary Batteries.) Westinghouse Union Battery Company. No. 5,679; July 12; v. 288; p. 430.
"Corned Beef You Will Like." (For Advertising Purposes for Canned Corned Beef.) Acme Packing Company. No. 5,681; July 26; v. 288; p. 828.
"Crop Test." (For Advertising Purposes for Flower and Vegetable Seeds, Shrubs, Plants, Trees.) William B. Rosevear, Jr. No. 5,673; July 5; v. 288; p. 203.
"Duck Head." (For Overalls.) O'Bryan Brothers, Inc. No. 5,669; July 5; v. 288; p. 203.
Good Food for Young Appetites Heinz Oven Baked Beans." (For Advertising Purposes for Heinz Oven-Baked Beans.) H. J. Heinz Co. No. 5,665; July 5; v. 288. p. 203.
"Hardeman Hats Better Hats For Men." (For Hats.) J. T. Hardeman Hat Co. No. 5,664; July 5; v. 288; p. 203.
"Here It Is!" (For Commutators.) The Baltimore Commutator Company. No. 5,675; July 12; v. 288; p. 430.
"'Here's a Meal Already Cooked,' Heinz Spaghetti Cooked Ready to Serve." (For Heinz Cooked Spaghetti.) H. J. Heinz Co. No. 5,667; July 5; v. 288; p. 203.
"I Am Penalized If One Comes Back." (For Advertisement of Tires.) The Miller Rubber Co. No. 5,668; July 5; v. 288. p. 203.
"It Aint Toothache—It's Climax." (For Chewing-Tobacco). P. Lorillard Company. No. 5,671; July 5; v. 288; p. 203.
"I Wish Dinner'd Hurry." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,661; July 5; v. 288; p. 203.
"Makes Eating More Fun." (For Heinz Apple-Butter.) H. J. Heinz Co. No. 5,666; July 5; v. 288; p. 203.
"Mother's Birthday." (For Advertising Purposes for Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,663; July 5; v. 288; p. 203.
"Nobrush." (For Shoe-Polish.) The Climax Specialties Co. No. 5,660; July 5; v. 288; p. 203.
"No Underwear is B. V. D. Without This Red Woven Label." (For Advertising Purposes for Athletic Underwear.) The B. V. D. Company. No. 5,659; July 5; v. 288; p. 203.
"Old Rubbers Made New." (For Advertising Purposes for Repair-Patches for Rubber Footwear.) Robertson & Sons Shoe Repairers, Inc. No. 5,672; July 5; v. 288; p. 203.
"Price's Grown-Ups." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company. No. 5,682; July 26; v. 288; p. 828.
"The Cosmetic Oils of Cleopatra Combined in a Cake of Soap." (For Advertising Purposes for Palmolive Soap.) The Palmolive Company. No. 5,670; July 5; v. 288; p. 203.
"The Girl You Stop to Look At." (For Palmolive Soap.) The Palmolive Company. No. 5,678; July 12; v. 288; p. 430.
"The Largest Selling Quality Pencil in the World." (For Advertising Purposes for Lead-Pencils.) American Lead Pencil Company. Nos. 5,655–6; July 5; v. 288; p. 203.
"The 1921 Orange Jell-O." (For Advertising Purposes for Orange Jell-O, a Dessert Preparation.) The Genesee Pure Food Company. No. 5,662; July 5; v. 288; p. 203.
"Virginies Will Delight You. (For Advertising Purposes for Canned Meat-Patties.) Acme Packing Co. No. 5,654; July 5; v. 288; p. 203.
"We Shall Keep Faith." (For Advertising Purposes for Motors.) Hares Motors, Inc. No. 5,676; July 12; v. 288; p. 430.
"We Shall Keep Faith." (For Advertising Purposes for Motor-Cars.) Hares Motors, Inc. No. 5,677; July 12; v. 288; p. 430.
"Westinghouse Batteries." (For Advertising Purposes for Secondary Batteries.) Westinghouse Union Battery Company. No. 5,688; July 12; v. 288; p. 430.
"You Can't Mistake the Flavor." (For Peanut-Butter.) Beech-Nut Packing Co. No. 5,657; July 5; v. 288; p. 203.

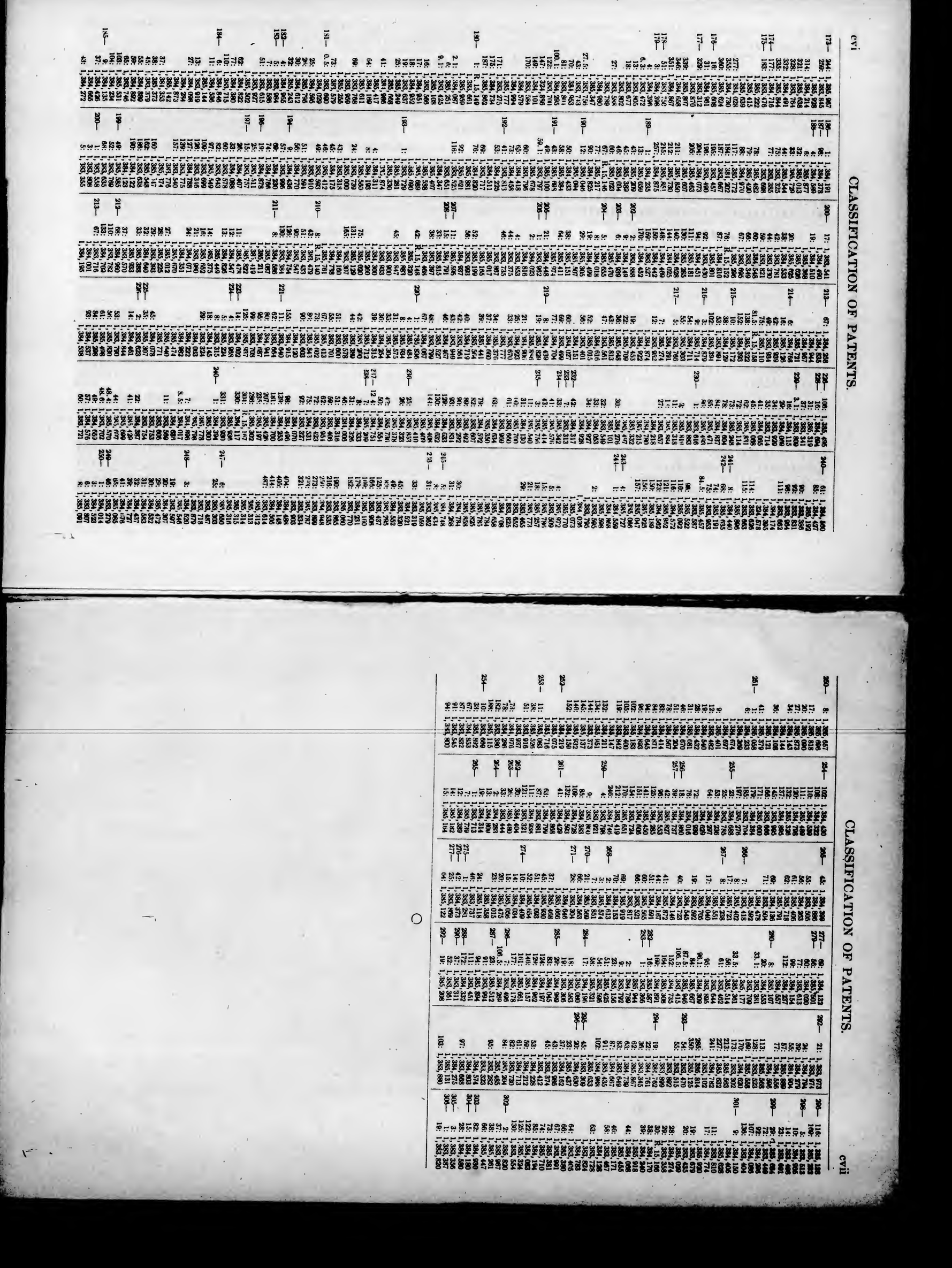
CLASSIFICATION OF PATENTS

JULY, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.






173— 244: 1,385,967 250: 1,385,845
174— 314: 1,385,214 321: 1,385,639 328: 1,385,764 322: 1,384,491 335: 1,384,944
175— 177: 1,384,716 183: 1,385,222
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188— 1: 1,384,430 4: 1,384,322 6: 1,384,630 6: 1,384,489 1,384,766 1,384,320 1,384,144 1,384,143 1,384,108 1,384,121 1,384,370 1,384,056 1,384,253 1,384,240 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
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196— 1: 1,384,430 1,384,322 1,384,630 1,384,489 1,384,766 1,384,320 1,384,144 1,384,143 1,384,108 1,384,121 1,384,370 1,384,056 1,384,253 1,384,240 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
197— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
198— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
199— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
200— 1: 1,384,430 4: 1,384,322 6: 1,384,630 6: 1,384,489 1,384,766 1,384,320 1,384,144 1,384,143 1,384,108 1,384,121 1,384,370 1,384,056 1,384,253 1,384,240 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
201— 1: 1,384,191 3: 1,384,373 6: 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
202— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
203— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
204— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
205— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
206— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
207— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
208— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
209— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
210— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
211— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
212— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
213— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
214— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
215— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
216— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
217— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
218— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
219— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
220— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
221— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
222— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
223— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
224— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
225— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
226— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
227— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
228— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
229— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
230— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
231— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
232— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
233— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
234— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
235— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
236— 1: 1,384,667 1: 1,384,596 1,384,818 1,384,577 1,384,674 1,384,697 1,384,401 1,384,540 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
237— 1,384,191 1,384,373 1,384,590 1,384,410 1,384,368 1,384,677 1,384,544 1,384,325 1,384,098 1,384,420 1,384,492 1,384,670 1,384,772 1,384,202 1,384,667 1,384,624 1,384,676 1,384,263 1,384,396 1,384,472 1,384,605 1,384,677 1,384,802 1,384,588 1,384,728 1,384,401 1,384,482 1,384,432 1,384,150 1,384,219 1,384,075 1,384,716 1,384,526 1,384,579 1,384,994 1,384,418 1,384,224 1,384,531 1,384,746 1,384,892 1,384,135 1,384,436 1,384,666 1,384,272
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[Decisions of the Court of Appeals of the District of Columbia are indicated by one star, (*;) of the United States Circuit Court by the letter, (ᵈ,) and of the Supreme Court of the United States by two stars, (**.)]

ERRATA.

1,388,089, page 535, in heading, assignment, name of administrator, for "William Hinz" read *Walter Hinz*.

Patents Nos. 1,385,977 to 1,386,589.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

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Total	977			

Notice—Nolan Act—Requirements as to Statements Filed by an Associate Attorney in the United States Under Order No. 2,675, Relating to British Applications.

Department of the Interior,
United States Patent Office,
Washington, D. C., August 1, 1921.

Notice is hereby given that statements intended to comply with Commissioner's Order No. 2,675, (287 O. G., 597,) relative to British applications, when made by associate attorneys in the United States, should set forth that it is based upon information furnished by the applicant or his agent in the foreign country or set forth facts within his personal knowledge.

THOMAS E. ROBERTSON,
Commissioner.

Notice—Pan-American Industrial Property Convention of 1910.

July 30, 1921.

The following communication from the International Trade-Mark Registration Bureau at Habana is herewith published for the information of those concerned.

THOMAS E. ROBERTSON,
Commissioner.

INTER AMERICAN HIGH COMMISSION,
UNITED STATES SECTION,
ROOM 153 TREASURY DEPARTMENT,
Washington, D. C., July 27, 1921.

SIR: At the request of the Director of the International Trade-Mark Registration Bureau at Habana, the Honorable Mario Díaz Yrisar, I have the honor officially to inform you that the convention concluded at Buenos Aires August 20, 1910, for the protection of trade-marks has now been ratified by fifteen countries, according to the records of the foreign office of the Argentine Republic, which, by virtue of articles 18 and 19, is the depositary of all records concerning the convention. A list of the fifteen countries that have ratified the convention is attached; it contains also the six republics which signed the convention but have not, up to this time, ratified it, so far as the Argentine Government or the Director of the Habana Bureau is aware.

Respectfully,

C. E. McGUIRE,
Assistant Secretary General.

The honorable the Commissioner of Patents, Washington, D. C.

List of countries which have ratified the Pan-American Trade-Mark Convention: Bolivia, (adhered,) Brazil, Costa Rica, Cuba, Dominican Republic, Ecuador, Guatemala, Haiti, Honduras, Nicaragua, Panama, Paraguay, Peru, Uruguay, United States.

The following countries have not ratified: Mexico, northern group; Salvador, northern group; Argentina, southern group; Colombia, southern group; Chile, southern group; Venezuela, southern group.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Mark section will include: Trade-Marks published under the act of 1905; Trade-Marks registered under the act of 1905 and under the act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

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Condition of Applications Under Examination at Close of Business July 23, 1921.

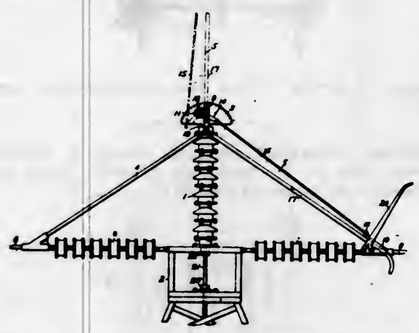
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314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Feb. 26	Mar. 11	689
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Oct. 18	Jan. 10	1,521
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 18	Nov. 5	728
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Aug. 19	Mar. 16	1,565
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 7	Dec. 29	778
313	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 10	Apr. 19	1,016
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Feb. 7	Mar. 28	1,490
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 11	June 11	641
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Oct. 19	June 8	826
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 4	May 7	1,205
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Apr. 9	May 10	404
222	12. PIERCE, P. P., Machine Elements	Dec. 13	Apr. 21	1,021
339	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 9	Apr. 11	1,610
223	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Oct. 20	May 27	878
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 2	Jan. 5	1,636
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Sept. 8	Dec 30	1,498
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 3	Apr. 7	839
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 7	Jan. 3	1,653
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 9	Feb. 25	924
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 3	Mar. 12	1,244
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Nov. 26	Apr. 4	552
349	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	Apr. 19	May 14	426
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Nov. 6	Apr. 8	841
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Dec. 27	Apr. 18	890
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	May 3	Apr. 27	315
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Jan. 3	Mar. 3	784
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Feb. 17	Mar. 29	1,175
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 3	Mar. 9	1,215
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Dec. 28	May 21	730
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 4	May 19	1,078
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Sept. 13	Nov. 8	2,038
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Sept. 13	May 3	1,122
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 24	Mar. 23	757
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	May 26	May 27	282
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 1	June 15	486
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Mar. 2	Feb. 9	1,550
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 10	Jan. 15	2,079
379	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Mar. 2	Mar. 8	1,089
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 10	Sept. 25	1,785
273	40. HOPKINS, F. M., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 6	Mar. 2	2,122
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Jan. 5	Mar. 26	884
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Nov. 8	Nov. 4	2,112
382	43. LANE, C. H., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Oct. 11	Jan. 3	1,346
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Nov. 22	May 2	516
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Jan. 22	Mar. 24	1,065
322	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Dec. 16	Mar. 7	943
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Nov. 17	Mar. 5	1,029
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Nov. 1	May 19	4,408
	Designs	Nov. 10	Feb. 9	2,096
	Labels and Prints	May 1	July 15	553

Total number of applications awaiting action, excluding Trade-Mark division, 51,377; Trade-Mark division, 7,057.

PATENTS

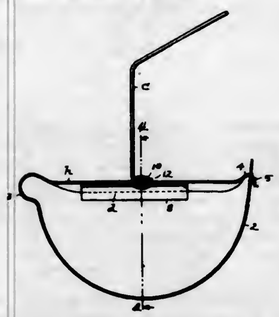
GRANTED AUGUST 2, 1921.

1,385,977. HIGH-VOLTAGE DISCONNECTING-SWITCH. CHRISTIAN AALBORG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1919. Serial No. 295,318. 9 Claims. (Cl. 200—48.)



3. A high-potential disconnecting switch comprising an insulating structure of substantially inverted T-shape and conducting members extending diagonally between the outer ends of the legs thereof, one of said members constituting a movable switch arm.

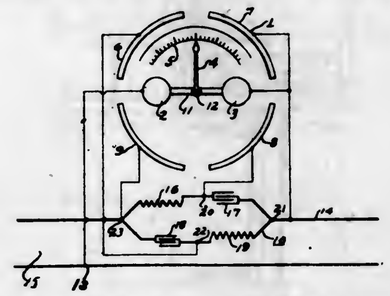
1,385,978. EAVES-TROUGH HANGER. JONATHAN P. ABBOTT, Painesville, Ohio. Filed June 29, 1920. Serial No. 392,617. 3 Claims. (Cl. 108—29.)



1. An eaves trough hanger, having a straight tapered body portion with inwardly extending flanges flared outwardly, a reinforcing piece fitted snugly inside between said flanges against the back thereof and flanged at its side to a greater depth than the flanges on said body and riveted thereto at its middle portion.

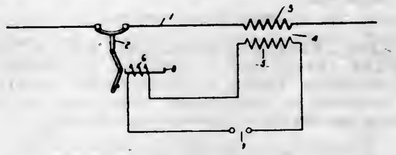
1,385,979. ELECTRICAL MEASURING INSTRUMENT. CHESTER T. ALLCUTT, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 2, 1917. Serial No. 151,989. 7 Claims. (Cl. 172—245.)

1. In a single-phase electric circuit, the combination with four conducting members, of a phase-splitting bridge connected in series with the circuit, and means for so connecting the said conducting members to the bridge that



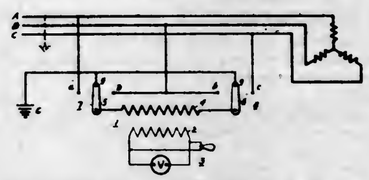
a symmetrical rotating electrostatic field is produced between the said conducting members.

1,385,980. CIRCUIT-INTERRUPTING DEVICE. CHESTER T. ALLCUTT, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 1, 1917. Serial No. 189,344. 3 Claims. (Cl. 175—294.)



1. In an electric circuit, the combination with a circuit interrupter and a trip coil therefor, of a series transformer operatively connected to the circuit, and a spark gap connected between the transformer and the trip coil.

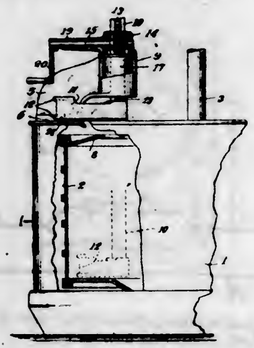
1,385,981. SWITCH. JAMES M. BROWN, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 8, 1917. Serial No. 195,248. 3 Claims. (Cl. 175—183.)



1. The combination with an indicating device and a plurality of circuits, of a ground conductor, two switches each of which comprises one movable contact member and a plurality of stationary contact terminals, one of the said stationary contact terminals of each switch being operatively connected to the ground conductor and the other terminals being connected to the circuits, a transformer having its primary winding connected in series with the stationary contact terminals and its secondary winding connected to the indicating device, and means

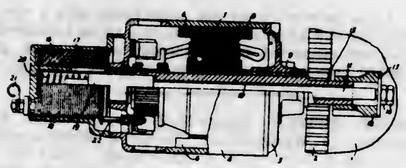
whereby the movable contact members may selectively engage the stationary contact terminals to determine, by means of the indicating device, a ground on, and the voltage of, any of the circuits.

1,385,982. CENTRIFUGAL MACHINE. TANDY A. BAYSON, Troy, N. Y., assignor to Tolhurst Machine Works, a Corporation of New York. Filed Mar. 22, 1917. Serial No. 156,563. 7 Claims. (Cl. 210—70.)



1. A centrifugal machine including in combination, a basket, a casing, a bracket on the casing, a scraper carrying bar journaled in said bracket, rotatable means engaging said bar and swingable about the axis thereof to raise and lower the same and to move the scraper to and from the basket wall.

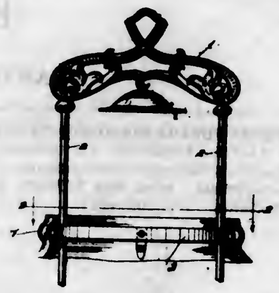
1,385,983. STARTING MECHANISM FOR AUTOMOBILES. FRANK CONRAD, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 19, 1917. Serial No. 168,179. 6 Claims. (Cl. 172—239.)



1. In a starting mechanism, the combination with a pair of coacting gear wheels, and means comprising an electromagnet for shifting one of said gear wheels into and out of mesh with the other, of an electric motor operatively connected to one of said gear wheels, means for substantially simultaneously controlling a circuit comprising said motor and said electromagnet, said motor having a field-magnet winding, and a non-inductive path of relatively high resistance in permanent parallel relation to said field-magnet winding, whereby the energization of said field-magnet winding is delayed relatively to the operation of said electromagnet.

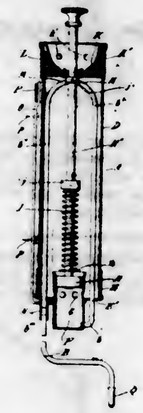
1,385,984. SUPPORT FOR SHADES. CORTLAND W. DAVIS, Oak Park, Ill., assignor to The Mantle Lamp Company of America, Chicago, Ill., a Corporation of Illinois. Filed Mar. 1, 1920. Serial No. 362,268. 7 Claims. (Cl. 240—115.)

1. A shade-supporting device including a ring carrying a plurality of shade supporting clips and a plurality of shade-retaining screws arranged in different planes and



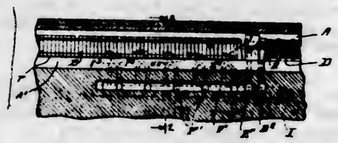
adapted to receive between them a portion of a lamp shade.

1,385,985. SANITARY DEVICE. FRANK A. DECKER, New York, N. Y. Filed Nov. 3, 1917. Serial No. 200,001. 3 Claims. (Cl. 4—30.)



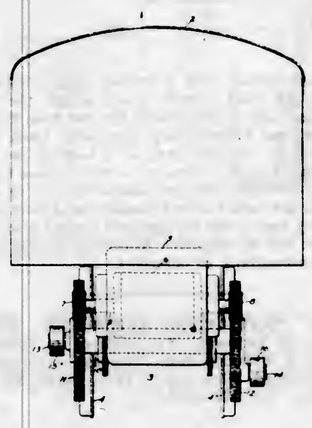
1. A disinfectant apparatus comprising a disinfectant reservoir, openings to charge the same, means for circulating disinfectant therein and aerating means actuated by the circulation of said liquid and means to diffuse the disinfectant vapor through the top of the reservoir and connections for delivering a measured quantity of said liquid exterior to said reservoir.

1,385,986. BURNER FOR TUNNEL-KILNS. PHILIP D'H. DRESSLER, Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed May 1, 1920. Serial No. 378,331. 8 Claims. (Cl. 25—142.)



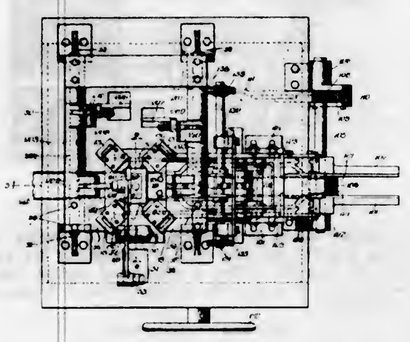
1. In a continuous tunnel kiln, the combination with an elongated kiln chamber, of an elongated combustion chamber therein formed with an aperture in its bottom wall, a masonry bench supporting said combustion chamber and formed with air and gas supply channels which open through the top surface of the bench into said aperture.

1,385,987. POWER-TRANSMISSION SYSTEM. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 10, 1917. Serial No. 141,620. 8 Claims. (Cl. 74—29.)



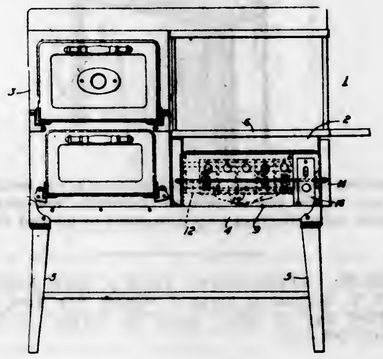
6. In a power transmission system, the combination with a motor having a rotatable armature, of pinions mounted near the ends of the armature shaft, said pinions being respectively provided with helical and herring-bone teeth, and gear wheels meshing with said pinions.

1,385,988. BOX-MAKING MACHINE. ARTHUR J. EVERS, Chicago, Ill. Filed Sept. 20, 1920. Serial No. 411,689. 10 Claims. (Cl. 93—59.)



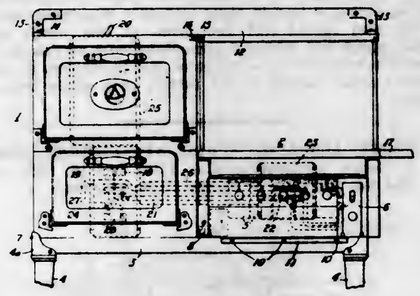
1. In a machine for making necked pasteboard boxes, the combination of a shouldered form having a larger portion corresponding to the body of the box and a smaller portion corresponding to the neck of the box, means to bend the pasteboard blanks about the form, and means to press the blank to the reduced portion of the form to provide the neck in the box by offsetting the pasteboard at the shoulder of the form, substantially as described.

1,385,989. TERMINAL STRUCTURE FOR ELECTRIC RANGES. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Mar. 1, 1920. Serial No. 362,424. 5 Claims. (Cl. 219—35.)



1. In an electric stove, the combination with a plurality of electric heating elements, a member of box-shape for supporting said elements, and switches for controlling said heating elements, of a plurality of bus bars located in said member of box-shape, insulating supporting means for supporting said bus bars adjacent their ends only and means supported at each end only for electrically connecting said bus bars to said switches.

1,385,990. ELECTRIC RANGE. FRANK F. FORSHEE, Flint, Mich., assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Mar. 1, 1920. Serial No. 362,426. 5 Claims. (Cl. 219—35.)



1. An electric range comprising a supporting member, an electrically heated oven, current conductors located in said oven, terminals for said conductors, an electrically heated stove, said stove and said oven being mounted in interchangeable side-by-side relation on said supporting member, and current conductors on said stove adapted to operatively engage said stove conductor terminals in either of the two relative positions of said stove and said oven.

1,385,991. BOOKMARK. HARRY C. FRENCH, Cleveland, Ohio. Filed Apr. 13, 1918. Serial No. 228,325. 1 Claim. (Cl. 116—119.)

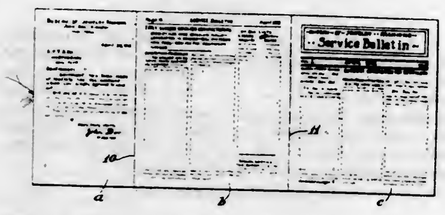
A book mark formed from spring wire and provided with a lateral portion and two branches extending there-

from, one of said branches being substantially shorter than the other of said branches, said short branch ter-



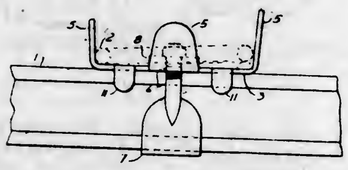
minating in a handle portion, said branches being converged to the end of said short branch, and said long branch being diverged from this point to the end thereof.

1,385,992. STATIONERY. EDGAR A. GOVE, New York, N. Y., assignor to Frank C. Osmers, New York, N. Y. Filed May 13, 1918. Serial No. 234,089. 2 Claims. (Cl. 283—1.)



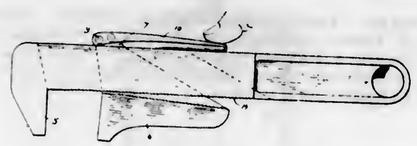
1. A combined letter head and form, comprising a first leaf having letter head indicia thereon and having a blank space for the insertion of a message, and a second leaf having permanent indicia thereon connected to one side edge of the first leaf throughout its length, said first leaf being arranged to fold along said edge into juxtaposition with said second leaf and being of less width than said second leaf, whereby when so folded a portion of the permanent indicia on said second leaf is exposed, the two leaves being formed by the folding of a single integral sheet.

1,385,993. AUXILIARY-SPRING ATTACHMENT. ANGUS R. GROFF, Birmingham, Ala. Filed July 15, 1920. Serial No. 396,411. 7 Claims. (Cl. 267—60.)



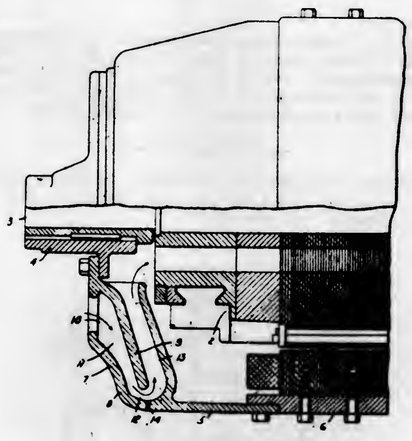
7. A base plate formed of bendable sheet metal in the form of a cross with upturned spring engaging lugs on its ends and spaced pairs of axle engaging lugs, a clip connected to the plate ends overhung at each side from the axle and disposed midway between and at right angles to the plane of the axle engaging lugs, and a heavy metal clip yoke overlying the overhung plate ends, said spring engaging lugs being adapted to receive the base coil of a spring snugly between them and to be bent upwardly over said coil to secure it to the plate and said clip forming a diagonal centering block for said base coil, substantially as described.

1,385,994. WRENCH. ALTON B. HEIMBACH, Duluth, Minn. Filed Aug. 29, 1919. Serial No. 320,631. 1 Claim. (Cl. 81—147.)



The combination with a wrench comprising a shank having a jaw fixed thereto, a slot within the shank, a movable jaw adjustable through the slot from the back of the shank, and coöperatively engageable teeth upon the shank and the movable jaw, of a bearing for said adjustable jaw spaced in advance of the working face thereof and a one-piece resilient member rigidly fixed to the adjustable jaw, said resilient member being bent under and backwardly upon itself the free end thereof being engaged within the slot in the shank to prevent lateral movement thereof substantially as described.

1,385,995. VENTILATING APPARATUS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 7, 1917. Serial No. 184,798. 5 Claims. (Cl. 171—252.)

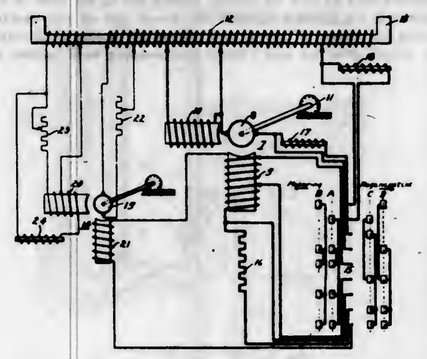


1. An air intake device for a ventilated machine comprising a casing provided with a passageway for ventilating air currents having a constricted portion that is adapted to be closed by the accumulation of frozen particles therein.

1,385,996. REGENERATIVE CONTROL SYSTEM. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Continuation of application No. 75,958, filed Feb. 3, 1916. This application filed Sept. 28, 1917. Serial No. 193,696. 7 Claims. (Cl. 172—276.)

3. The combination with a dynamo-electric machine of the commutator type having a working winding and an exciting winding, of means for connecting portions of

said exciting winding in series with said working winding in either direction, at will, and means for supplying an

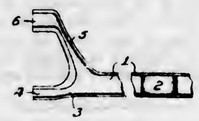


auxiliary excitation comprising an auxiliary source of alternating current.

1,385,997. SYSTEM OF CONTROL OF SINGLE-PHASE COMMUTATOR-GENERATORS. RUDOLF E. HELLMUND, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 8, 1917. Serial No. 206,139. 13 Claims. (Cl. 172—276.)

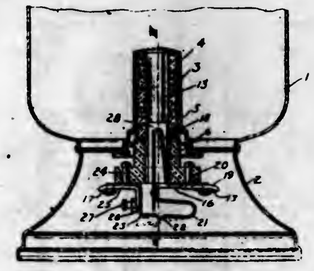
1. In a system of control, the combination with an alternating-current dynamo-electric machine having an armature and an exciting field winding, of means including a source of energy for supplying to said field winding the difference between the armature and the field winding currents, and means for automatically adjusting such differential current.

1,385,998. METHOD OF MANUFACTURING AXLES. REINHOLD G. HOUSDORFER, Detroit, Mich. Filed Aug. 18, 1919. Serial No. 318,320. 10 Claims. (Cl. 29—153.)



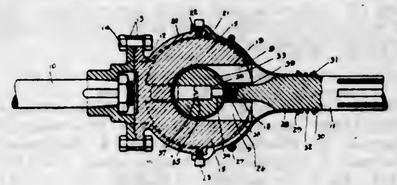
1. A method of manufacturing an axle from a blank, consisting in bending the end of the blank at an angle, pressing the angular blank end to reduce its cross sectional area, and then re-shaping the blank end while the blank is held between dies.

1,385,999. THERMAL CUT-OUT. DAVID G. HOWARD, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1917. Serial No. 140,736. 6 Claims. (Cl. 200—122.)



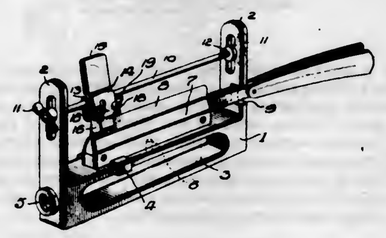
1. A thermal cut-out for electric-circuit control comprising a resilient member forming a part of the electric circuit and maintained under tension when the circuit is closed, and heat-responsive means connected to said member and forming a part of the electric circuit for releasing the same and thereby interrupting the circuit.

1,386,000. YIELDING UNIVERSAL JOINT. FRANK R. HUME, Indianapolis, Ind. Filed June 21, 1920. Serial No. 390,608. 3 Claims. (Cl. 64—96.)



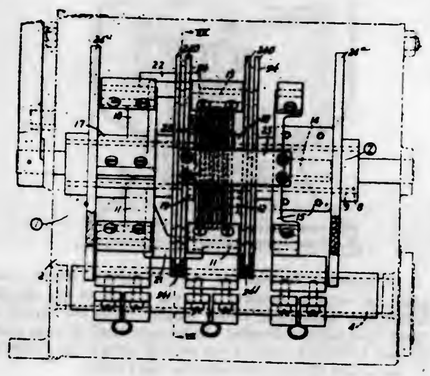
1. A universal coupling including a pair of shafts, a radial driving lug on one shaft and a radial driven lug on the other shaft, inclosing casing means, and a sectored spherical cushion within said casing and interposed between said radial lugs to transfer rotary movement from one shaft to the other.

1,386,001. RAZOR-SHARPENING DEVICE. EMANUEL JACOBS, Detroit, Mich. Filed Oct. 17, 1918. Serial No. 258,550. 7 Claims. (Cl. 51—59.)



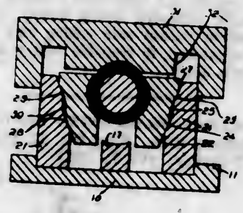
4. Means for sharpening a razor, comprising spaced members one of which is adapted to have a razor extend therethrough to a position between said members, a rod adjustably mounted in said members, a reciprocatory and oscillatory blade sharpener on said rod adapted to be shifted under said rod from one side of the razor to the other side when at either end of the razor blade and move longitudinally of either side when reciprocated, and means between said members for holding the razor during the operation of said blade sharpener.

1,386,002. CONTROLLER. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 15, 1916. Serial No. 120,277. 12 Claims. (Cl. 200—10.)



1. In a controller, the combination with a plurality of series-connected pairs of coating stationary contact members and movable contact members, of a blowout coil connecting a plurality of said movable contact members and means for connecting said coil in series circuit relation with each pair of stationary and movable contact members that are in engagement.

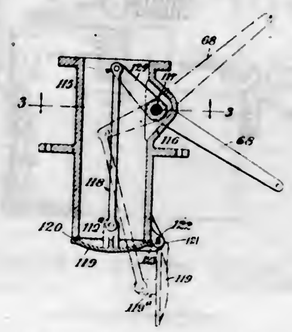
1,386,003. MOLD FOR MICARTA TUBES, RODS, AND THE LIKE. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 8, 1918. Serial No. 257,388. 6 Claims. (Cl. 18—16.)



2. A mold for rods, tubes and the like including a stationary forming-member, a plurality of additional-forming members, and means whereby pressure applied to one of the latter forming members will first bring all of the latter forming members into their final positions relative to each other and certain of them into engagement with the stationary forming member and will then bring all of the additional forming members into their final positions relative to the stationary forming-member.

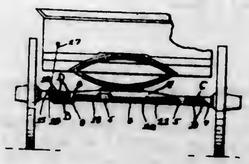
1,386,004. INLET-VALVE FOR BLOWING-TANKS. HARRY ARTHUR KIMBER, New Rochelle, N. Y., assignor to Quigley Furnace Specialties Co., Inc., a Corporation of New York. Original application filed Jan. 31, 1918, Serial No. 214,755. Divided and this application filed Dec. 6, 1919. Serial No. 343,105. 1 Claim. (Cl. 251—10.)

An inlet valve for blowing tanks designed to handle finely pulverized coal and the like which comprises, in combination, a vertically arranged hollow casting adapted to be set in the upper head of the tank, a valve having a loose-hinged connection offset from the lower end of the casting and having an elastic gasket set in its face in position to be pressed against the lower end of the casting when the valve is closed, and means for holding the valve in closed position and evenly compressing said gasket by



reason of the freedom of adjustment of the valve afforded by the loose hinge, which means comprises an upwardly projecting lug on the upper face of the valve, a lever extending through the wall of the hollow casting and pivoted therein, a connection from the end of the above mentioned lug to the inner end of said lever, an exterior crank and an elastic connection from the said crank to the exterior end of the above mentioned lever.

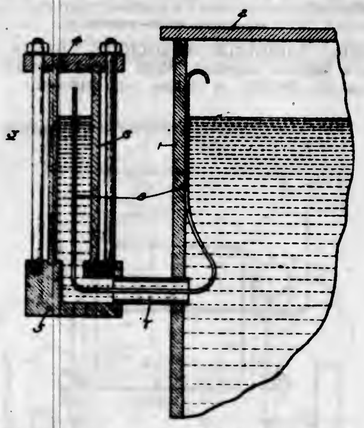
1,386,005. HORSE-DETACHER. JESSE KIRKLAND, Povo, Tenn. Filed Sept. 27, 1920. Serial No. 413,003. 4 Claims. (Cl. 278—30.)



1. A device of the character described comprising a vehicle axle having shaft couplings, bearings on said axle, a shaft mounted in said bearings and having its end portions extending in the same direction and into the couplings, springs carried by the end portions of the shaft, each spring having one of its ends secured to the shaft, the other end of the spring being disposed in engagement with the adjacent bearing of the shaft for moving said shaft toward one end of the axle at certain times, and means carried by said axle to normally prevent said movement.

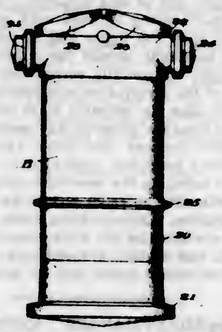
1,386,006. GAGE. CHARLES S. LAWSON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 28, 1919. Serial No. 340,976. 7 Claims. (Cl. 73—54.)

1. The combination with a vessel containing liquid and air, a device for indicating the level of the liquid therein, and a single connecting means between said device and said vessel having a passage therethrough, whereby said



level may be indicated, irrespective of the pressure of the liquid and the air.

1,386,007. METHOD OF MAKING HYDROCARBON-MOTORS. GEORGE F. LYNN, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed July 19, 1917, Serial No. 181,527. Renewed Apr. 22, 1920. Serial No. 375,897. 9 Claims. (Cl. 29—156.4.)



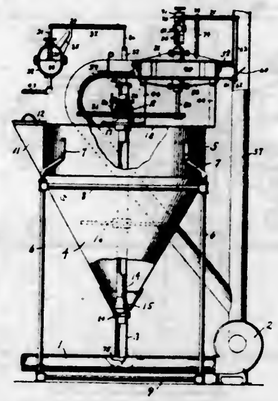
1. A method of making a cylinder block consisting in forming two cylinders each with radial flanges having bent over outer portions forming skirts, welding parts of the skirts of the cylinders together, placing a water jacket around the two cylinders in contact with the parts of the skirts that are not so welded together, and welding said jacket to said skirts.

1,386,008. INSULATING MATERIAL. LEON MCCULLOCH, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1917. Serial No. 140,822. 16 Claims. (Cl. 154—2.)

1. A composite material comprising flake material and a lead free binder containing an oxygen compound of boron.

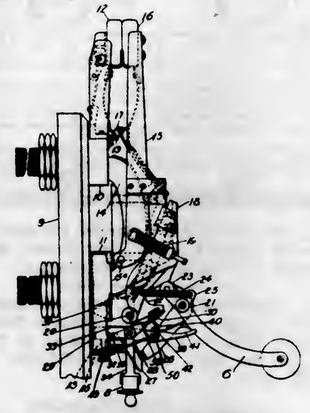
1,386,009. FEEDER FOR POWDERED FUEL. JOHN URBAN MCDONALD, Decatur, Ill. Filed Oct. 11, 1919. Serial No. 330,090. 8 Claims. (Cl. 302—42.)

8. In a feeder for powdered fuel, the combination of a hopper, a rotatable valve tube in said hopper, a discharge pipe at the lower end of the hopper to receive the powdered fuel, a blower connected to said discharge pipe which constitutes the suction pipe of said blower, the current of air actuated by said blower being adapted to carry the fuel from the hopper, a motor operated by the air flowing through said valve tube, gearing connecting the motor to



the valve tube whereby the tube may be turned by the motor, a governor connected to said motor, and means operated by the governor for controlling the flow of air to said motor.

1,386,010. CIRCUIT-INTERRUPTER. JOSEPH N. MAHONEY, Wilkinsburg, and Walter M. Austin, Swissvale, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 7, 1917. Serial No. 167,085. 9 Claims. (Cl. 200—50.)

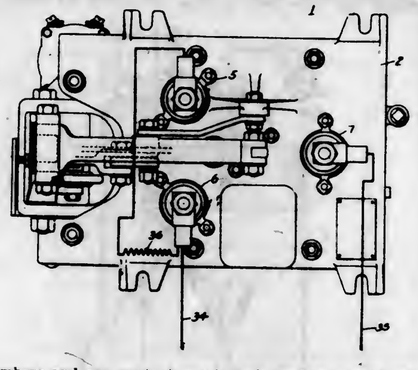


5. In a multi-polar circuit interrupter, the combination with a plurality of actuating handles and a single trip bar therefor, of means associated with one pole for holding the tripping bar in its tripping positon under predetermined conditions.

1,386,011. CIRCUIT-INTERRUPTER. JOSEPH N. MAHONEY and JOHN B. MACNEILL, Wilkinsburg, Pa., assignors to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 15, 1917. Serial No. 168,676. 9 Claims. (Cl. 200—144.)

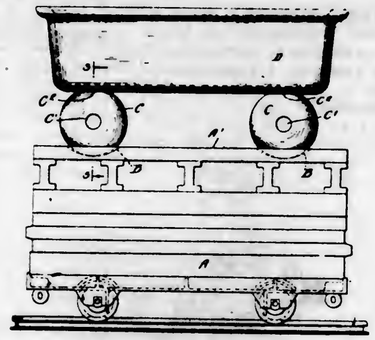
8. In combination, a circuit interrupter comprising a plurality of movable bridging contact structures, a single operating member therefor, a pair of stationary contact members for coöperation with each bridging structure,

and a current-retarding device connected between one contact member of one of said pairs of stationary contact



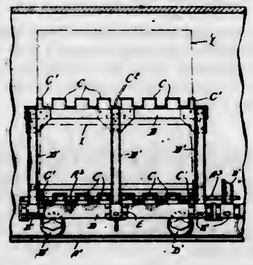
members and one contact member of another of said pairs thereof.

1,386,012. WARE-SUPPORT FOR KILNS. PAUL A. MEEHAN, New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed May 20, 1919. Serial No. 298,374. 6 Claims. (Cl. 25—153.)



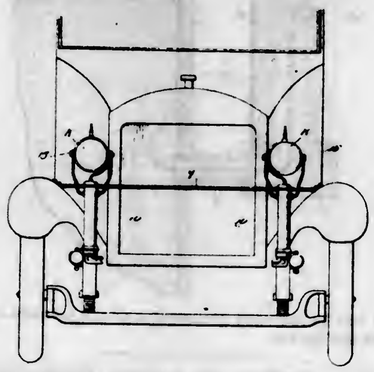
1. As a new article of manufacture, a member for supporting ware subjected to heat, said member having one side flattened and its opposite side spherical.

1,386,013. DRYING-KILN CAR. PAUL A. MEEHAN, New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 26, 1920. Serial No. 376,459. 4 Claims. (Cl. 105—373.)



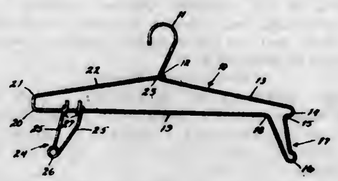
1. A car for the purpose specified having a work supporting platform formed by hollow pressed metal bolsters each bolster having its upper surface inclined downwardly at a slight angle from its outer end toward its center.

1,386,014. DIRIGIBLE HEADLIGHT. GEORGE FREDERICK MESSER, Aberdeen, Wash. Filed June 10, 1920. Serial No. 387,960. 4 Claims. (Cl. 240—61.)



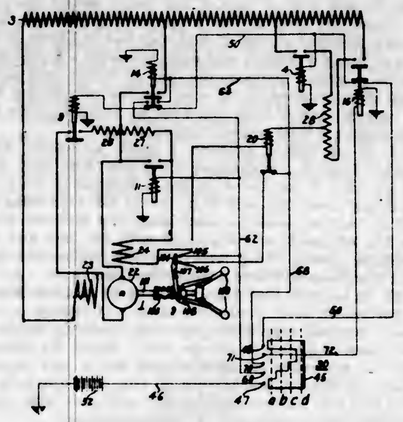
1. In a device of the character described, the combination with a vehicle having a steering gear and steering wheels and a headlight associated with the vehicle, of a support for said headlights including a hollow cylindrical housing, caps at each end of said housing, a sleeve rotatably mounted on said housing between said caps and bracket arms mounted upon the upper end of said housing and carrying said headlight, means for automatically swinging the headlight horizontally corresponding to the horizontal swing of the steering wheels including a pulsator, means for actuating the pulsator from the steering gear, a motor driven from the pulsator, and motion transmission means operative between the motor and the headlight including a crank positively connected to the said sleeve, and means for swinging the headlight vertically including a pulsator, manually operable means for actuating said last-named pulsator, a motor driven from said last-named pulsator and arranged in the cylindrical housing of said light support, and motion transmission means operable between the last-named motor and the headlight.

1,386,015. GARMENT-HANGER. KEITH MONTGOMERY, Jacksonville, Ill. Filed July 31, 1920. Serial No. 400,400. 4 Claims. (Cl. 211—13.)



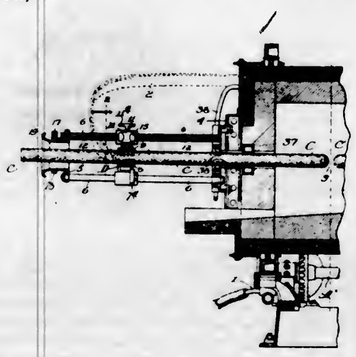
1. A hanger comprising a body including a horizontal rod portion and a rigid depending arm at one end of the rod portion inclining outwardly beyond the end, and a movable arm slidable along said rod portion and including resilient diverging arms connected by a coil and having their end portions coiled about said rod portion and in inclined relation thereto and in frictional clamping engagement therewith, said movable arm being freely slidable in one direction and releasably slidable in the other direction.

1,386,016. SYSTEM OF CONTROL. HUBB T. MORRIS, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed June 4, 1915, Serial No. 32,188. Divided and this application filed July 12, 1917. Serial No. 180,041. 2 Claims. (Cl. 172—276.)



1. A system of control comprising an alternating-current motor of the commutator type, a plurality of manually-controlled switches severally having actuating coils, means for starting the motor as a repulsion motor, centrifugally-governed means for automatically establishing a partial auxiliary circuit for said coils when the motor attains a predetermined speed, and a limit switch actuated in accordance with the current in a part of the motor circuit for automatically completing said auxiliary circuit to effect transition to the doubly-fed connection of the motor.

1,386,017. ELECTRODE-ADJUSTING MECHANISM. WILLIAM L. MORRIS, Chicago, Ill., assignor to The Booth Electric Furnace Co., a Corporation of Illinois. Filed Apr. 19, 1920. Serial No. 374,966. 9 Claims. (Cl. 204—64.)



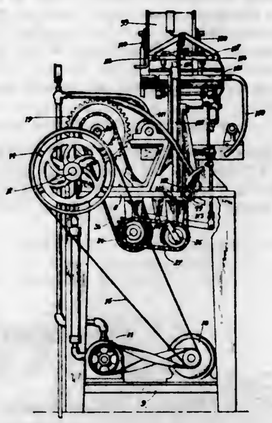
1. In means of the character set forth, the combination of an electrode supporting-frame, a carriage adjustably mounted for movement longitudinally of said frame, and electrode clamping means mounted on said carriage and provided with means of adjustment to vary the axial direction of the electrode.

1,386,018. COMBINED LICENSE-PLATE AND TAIL-LIGHT. WILLIAM F. OTHER, St. Louis, Mo. Filed May 31, 1916. Serial No. 100,767. 1 Claim. (Cl. 40—132.)



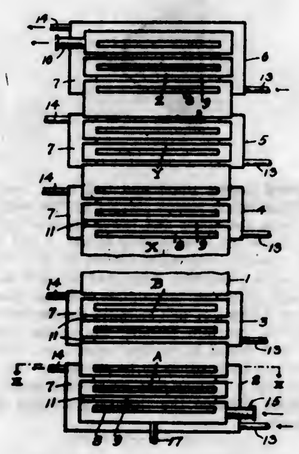
A combined license plate and tail light, comprising a support, illuminating means carried by the support, walls diverging from the upper and lower sides of said support above and below the illuminating means, a tail light plate supported between said walls served by the illuminating means, a frame removably supported by said walls below the tail light plate, an infrangible resilient license plate composed of a sheet of non-metallic opaque material having translucent portions forming the license number supported in said frame in vertical alinement with the tail light plate and in position to be served by the illuminating means, and a transparent protecting plate supported in said frame between the license plate and the illuminating means.

1,386,019. PAPER FEEDING AND CUTTING MECHANISM. LYNDON C. PALMER, Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada, a Corporation of Ontario, Canada. Original application filed May 14, 1918, Serial No. 234,416. Patent No. 1,312,570, dated Aug. 12, 1919. Divided and this application filed July 9, 1919. Serial No. 309,709. 30 Claims. (Cl. 164—48.)



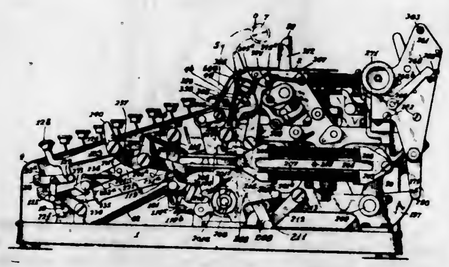
1. In an apparatus of the character described, in combination, a table on which a web is adapted to slide, a drag plate adapted to press the web on the table movable relative to the table to feed the web and movable toward and from the table, means adapted to operate the drag plate comprising a carriage adapted to effect the feed movement of the drag plate, means adapted to reciprocate said carriage, and devices whereby the operation of said reciprocating means effects the movements of the drag plate toward and from the table comprising a rock arm on the carriage operatively connected to the drag plate.

1,386,020. FRACTIONATING APPARATUS. HARRY F. PERKINS, Pittsburgh, Pa., assignor to Rosanoff Process Company, Pittsburgh, Pa., a Corporation of Delaware. Filed Dec. 23, 1918. Serial No. 267,885. 3 Claims. (Cl. 257—218.)



1. A structure of the character and for the purposes described, containing in combination, a fractionating chamber having an inlet opening at one end for the substances to be treated and an outlet opening at its opposite end, a chamber for temperature-controlling fluid surrounding said fractionating chamber between its ends and provided with inlet and outlet openings, and a plurality of flat hollow plates extending transversely thereof, each of said plates having closed side-walls spaced from the inner wall of said fractionating chamber, and opposite open ends connected to said fluid chamber, said plates being arranged in transverse lines in angular relation one to the other, whereby the substances under treatment are caused to flow in a tortuous path.

1,386,021. ADDING-MACHINE. HEBER C. PETERS, New York, N. Y., assignor to Peters-Morse Manufacturing Corporation, a Corporation of New York. Filed Nov. 28, 1916. Serial No. 133,846. 41 Claims. (Cl. 235—60.)



1. In an adding machine, a series of depressible number keys, one end of each key acting when depressed as a stop, a stop bar carrying a series of stops, one for each number key, the stops for some of said number keys being located upon said stop bar at a distance to the rear of the depressed position of the number key with which it is adapted to coöperate greater than the distance between key stops, and means for moving the stop bar to avoid contact between stop bar stops and inappropriate key stops and for producing contact between a given stop bar stop and the key stop with which it is adapted to coöperate said number key stops being all in the same vertical plane.

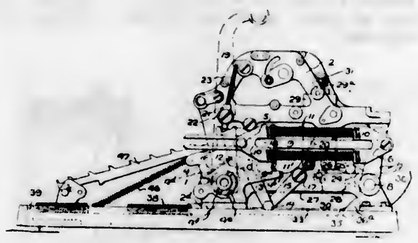
12. A key-board having rows of depressible keys adapted to be detained in depressed position, rods positioned parallel to said rows of keys, a stop bar, a detent operating to retain the stop bar in a rearward position, a strip loosely mounted on one of said rods and co-acting with a row of keys for holding said keys depressed, a second strip having a portion acting as the stop bar detent, said second strip being mounted on the same rod and coöperating with an adjacent row of keys, and a spring acting to press said strips against their respective rows of keys.

13. In an adding machine, a shaft, an adding wheel carrier adapted for swinging movement with said shaft as its axis, a key-board carrying depressible keys and retaining means for said keys, means for supporting one end of said key-board on said shaft and latching means for the key-board, said key-board with the keys and key-retaining means being removable and replaceable as a unit with respect to said adding wheel carrier.

21. In an adding machine, a pair of vertical side frames, a horizontal shaft connecting said side frames, a key-board carrying depressible keys and retaining means for said keys, a second transverse shaft, means for supporting the key-board on both of said shafts and latching means for the key-board, whereby said keyboard with the keys and key retaining means are held upon said shafts and are readily removable as a unit therefrom.

25. In an adding machine, depressible number keys, means for individually retaining said keys in a depressed position, means for releasing said keys, a total lever which may be set in a plurality of operative positions and means for releasing the same, in combination with a master plate and operating means therefor, said plate carrying means for operating the key releasing means and the total lever releasing means.

1,386,022. ADDING-MACHINE. HEBER C. PETERS, New York, N. Y., assignor to Peters-Morse Manufacturing Corporation, a Corporation of New York. Original application filed Nov. 29, 1915, Serial No. 133,846. Divided and this application filed Dec. 28, 1917. Serial No. 209,251. 19 Claims. (Cl. 235—60.)



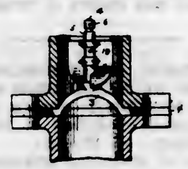
1. In an adding machine, a main operating shaft, type carriers, a member loosely mounted upon said shaft for controlling the movement of said type carriers, and means connecting said main shaft and said member to enable said member to be operated at a varying rate of movement with respect to the forward movement of said main shaft.

5. In an adding machine, a main operating shaft, a main spring connected thereto and operating to impart motion to said shaft on its backward movement, a cam mounted on said main shaft and capable of movement varying from the movement of said main shaft during the forward movement of said main shaft and said cam and means for imparting movement to the cam on the backward movement of said main shaft.

18. In an adding machine, a main shaft and second shaft, means operated by the main shaft for imparting movement to the second shaft, type bars adapted to be set by the movement of the main shaft, a cam loosely mounted upon the main shaft for controlling said type bars and means for governing the rate of movement of said cam independently of the rate of movement of said main shaft but dependent on the movement of said second shaft.

18. In an adding machine, a main operating shaft, a main spring connected thereto and operating to impart motion to said shaft on its backward movement, a speed governing device, a cam mounted on said main shaft and connected to said governing device, said cam being capable of movement at a rate controlled by said governing device and independent of the rate of movement of said main shaft during the forward movement thereof, means for imparting movement to said cam during the backward movement of said main shaft whereby the rate of backward movement of said cam and said main shaft is controlled by said governing device.

1,386,023. GAS-MIXER. CARL A. PETERSON, Superior, Wis. Filed May 13, 1920. Serial No. 381,024. 2 Claims. (Cl. 48—180.)



1. A gas mixer of the class described, comprising a support having a spindle securely fixed thereto, a combination propeller and fan-like blade rotatably carried upon the spindle, a portion of said blade on either side of the spindle being straight and parallel therewith, while the other portion is bifurcated and each half thereof curved outwardly in radially opposite directions from the spindle.

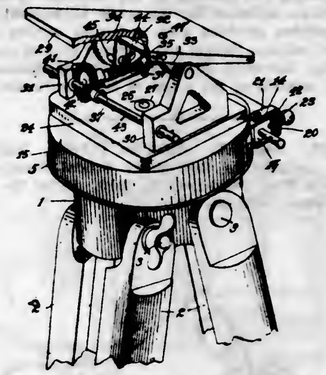
1,386,024. ANTIRATTLER FOR WINDOW-SASHES. PAUL WILLIAM PICK, Portland, Oreg. Filed June 7, 1920. Serial No. 387,057. 2 Claims. (Cl. 292—343.)



1. An anti-rattler for window sashes, comprising a sheath formed from a doubled piece of sheet metal having relatively expansible sides, and a movable wedging device carried by the sheath and mounted so that it is adapted to be inserted between the sides of the sheath.

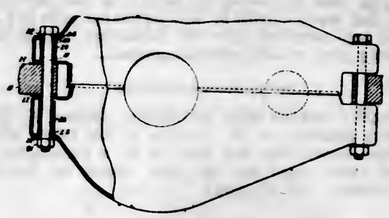
1,386,025. TRIPOD FOR CAMERAS. REINHART W. PITTMAN, New York, N. Y. Filed Sept. 1, 1920. Serial No. 407,438. 6 Claims. (Cl. 248—45.)

3. In a tripod, a head, a base rotatable on the head, a worm-wheel fast on the head, an arm pivoted on the head, a worm-wheel shaft rotatably mounted on said arm to be thereby shifted to engage and release the worm-wheel,



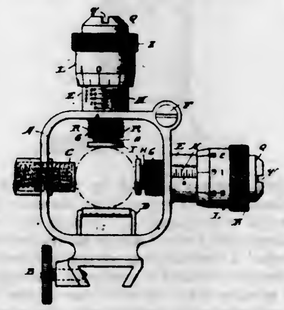
and a hinged clamping member to coöperate with the said arm to hold the worm in engagement with the worm-wheel.

1,386,026. SHEET-METAL GEAR-CASE. ALEXIS R. PRIBIL, Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 3, 1917. Serial No. 184,234. 11 Claims. (Cl. 74—56.)



1. A gear-case member comprising a one-piece trough portion of varying depth and having relatively shallow end portions, corresponding portions of the side walls of said trough extending inwardly toward each other, and other portions of the trough projecting over to close the said end portions and to engage the said inwardly extending portions.

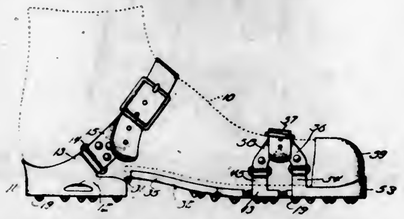
1,386,027. MOUNTING FOR TELESCOPE GUN-SIGHTS. ROBERT V. R. REYNOLDS, Washington, D. C. Filed Aug. 2, 1920. Serial No. 400,822. 7 Claims. (Cl. 33—50.)



1. A mounting for telescopes of gun sights, comprising a member for attachment to the gun and having an opening

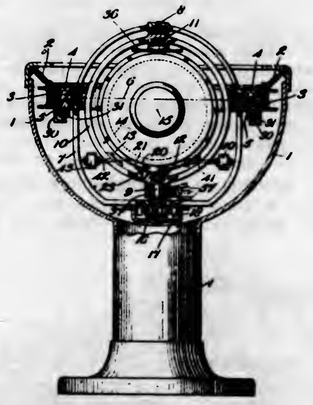
adapted to receive the telescope, a radially-disposed manually-operable adjusting screw and coöperating abutment for adjusting the position of the telescope in said member, and an indicator for the screw adjustment comprising a member provided with a circular surface having a series of recesses therein and a spring-pressed member cooperating therewith for varying the resistance to the manual rotation of the screw in either direction.

1,386,028. SANDAL. CHARLES O. ROE, Indianapolis, Ind., assignor to Roe Metal Sandal Company, Milwaukee, Wis. Filed Dec. 22, 1919. Serial No. 346,623. 13 Claims. (Cl. 36—63.)



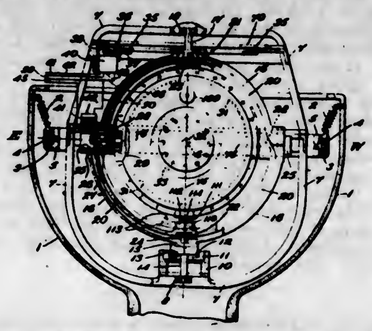
1. In a sandal of the character described, a ball section comprising a perforated plate, headed calks or spikes slidably and removably mounted in the perforations of said ball section, a retaining plate within said perforated plate engaging the heads of said calks or spikes, means on said retaining plate for spacing the same from said perforated plate, and means carried by said perforated plate and engaging said retaining plate for detachably holding said retaining plate in calk retaining position.

1,386,029. GYROSCOPIC COMPASS. GEORGE A. ROSSITER, Brooklyn, N. Y., assignor to The Carrie Gyroscopic Corporation, New York, N. Y., a Corporation of New York. Filed May 20, 1918. Serial No. 235,589. 13 Claims. (Cl. 33—204.)



1. In a gyro compass adapted for use aboard a moving vessel the combination of a gyroscopic directive element; a casing in which said element is pivoted for rotation; a pendulous supporting frame; means for horizontally pivoting said frame; a shadow ring vertically pivoted in said supporting frame; means for vertically pivoting said casing in said shadow ring, whereby one of the degrees of freedom of said element is suppressed; and means carried by said casing adapted to dampen out oscillations of said element about the north point, substantially as described.

1,386,030. GYROSCOPIC COMPASS. GEORGE A. ROSSITER, Brooklyn, N. Y., assignor to The Carrie Gyroscopic Corporation, New York, N. Y., a Corporation of New York. Filed Oct. 2, 1919. Serial No. 327,898. 6 Claims. (Cl. 33—204.)

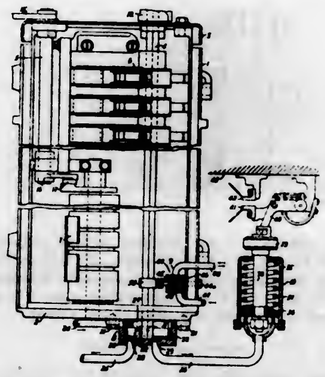


1. In a gyro compass the combination of a gyro wheel; means to support said wheel with three degrees of freedom; and magnetic means on said supporting means for suppressing one of said degrees of freedom, substantially as described.

1,386,031. METHOD OF PRODUCING POTASSIUM SULFATE AND ALUMINUM OXID FROM ALUNITE OR SIMILAR MATERIAL. JOSEPH L. SILSBEE, Salt Lake City, Utah. Filed Dec. 2, 1919. Serial No. 341,904. 5 Claims. (Cl. 23—13.)

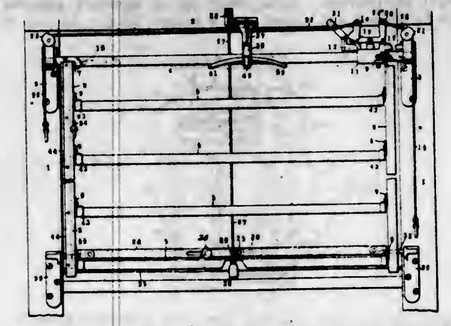
1. The method of recovering potassium sulfate from alunitic ore, comprising crushing and roasting the ore, adding solvent liquor to the ore while hot, thereby transferring heat from the ore to the liquor and raising the temperature of said liquor to increase its capacity for dissolving potassium sulfate from the ore, mechanically separating the solvent liquor and the suspended fines of aluminum oxid from the undissolved solids of the roasted ore, separating the clear solvent liquor from the fines of aluminum oxid, cooling said liquor and depositing potassium sulfate by crystallization.

1,386,032. CONTROL APPARATUS. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 3, 1917. Serial No. 146,545. 6 Claims. (Cl. 200—1.)



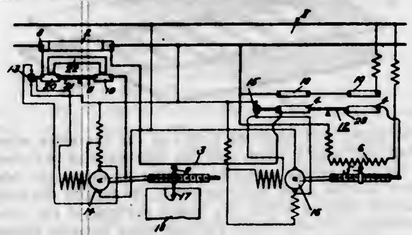
4. In electrical apparatus, the combination with a mechanically-operated contact member and a fluid-pressure-operated contact member, of common means for actuating both of said members.

1,386,033. WINDOW-SCREEN. LEOPOLD SIMON, New York, N. Y. Filed July 8, 1915. Serial No. 38,637. 33 Claims. (Cl. 156—17.)



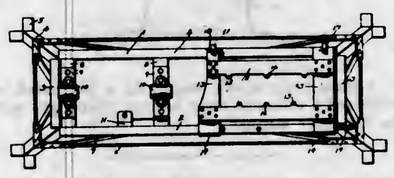
3. In a device of the character described, in combination, a transverse support, a plurality of screen-carrying frames, including one translatable on said support, a foldable brace between said frames to rigidly space the same when separated, and means to lock said foldable brace in a predetermined position.

1,386,034. ELECTRICAL MEASURING INSTRUMENT. HAROLD B. TAYLOR, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1918. Serial No. 215,382. 9 Claims. (Cl. 175—183.)



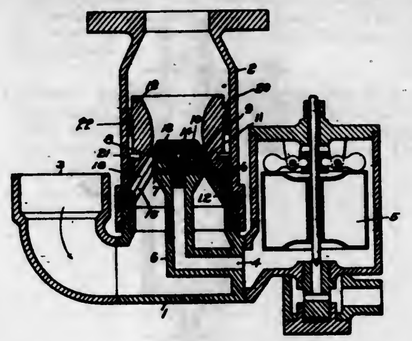
1. In an electric circuit, the combination with a current shunt, of a potentiometer conductor connected across the circuit, means for balancing the potential across the shunt with the potential across the potentiometer conductor, and means for causing the current traversing the potentiometer conductor to vary inversely as the voltage across the circuit.

1,386,035. MOTOR-BEARING-BURNING-IN STAND. HENRY VATTER, Jr., Shreveport, La. Filed Oct. 17, 1919. Serial No. 331,407. 2 Claims. (Cl. 29—1.)



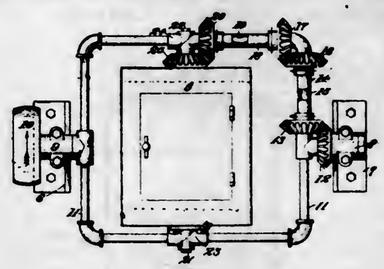
1. In a device of the class described, a table for supporting a cylinder block, said table including side members, dowel pins mounted on the side members for engaging openings in the cylinder block for aiming the same upon the table, and ears formed on said side members and provided with openings through which fastening means may be engaged with the cylinder block.

1,386,036. CARBURETER. WILLIAM W. WEEKS, Brooklyn, N. Y., assignor of one-half to Harold W. Shonnard, Upper Montclair, N. J. Filed July 3, 1919. Serial No. 308,422. 4 Claims. (Cl. 261—62.)



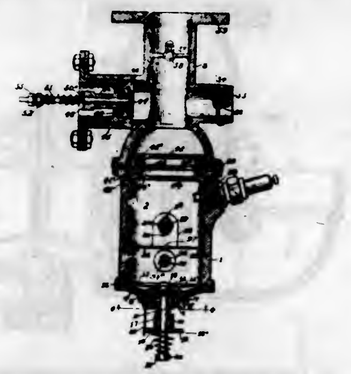
1. In a carbureter for an internal-combustion engine, the combination of an air passageway, a grid with a sector-shaped opening set athwart said passageway, a fuel nozzle centrally arranged within said passageway and provided with an aperture extending in an arc of a circle transversely of the passageway, and a rotary valve controlling at once the opening in said grid and the aperture in said nozzle, the arrangement being such that the stream of air as it flows through the valve orifice sweeps the aperture of the fuel nozzle, substantially as described.

1,386,037. MACHINE ELEMENT. GEORGE C. WEISS, Oakland, Calif. Filed July 16, 1920. Serial No. 396,682. 2 Claims. (Cl. 74—7.)



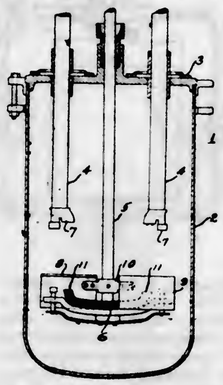
1. In combination, a rotatable element, a rotatable mounting therefor, comprising a skeleton frame having a rotatable bearing on two opposite sides, a support for the mounting arranged to support said rotatable bearings, direct driving means for rotating the mounting in a fixed orbit with the container carried thereby, a driving gear co-axially mounted upon and fixed to a transverse part of said mounting, a driven gear carried upon one side member of said skeleton frame and adapted to mesh with said driving gear, a second driven gear mounted upon said side member of the frame adapted to be driven by said first named driven gear and adapted to mesh with a gear carried upon another side member of the frame, said last named gear adapted to drive a gear mounted co-axially thereof and in driving relation to a gear carried upon and in driving relation with the element; whereby the rotation of the mounting is adapted to also rotate the element in a fixed orbit independent of the mounting and with its axis of rotation intersecting the axis of rotation of the mounting.

1,386,038. OIL-GAS PRODUCER. EDWARD A. WEST, West Park, and EDWARD E. PARSONS, Cleveland, Ohio, assignors to The Oil Gas Producer Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 5, 1918. Serial No. 238,251. 38 Claims. (Cl. 48—62.)



25. In a device of the character described, the combination of a generating chamber having an outlet and an air inlet opening, a liquid fuel conduit extending into said chamber between said inlet opening and said outlet, a valve controlling said inlet opening and operable by the suction or vacuum in said chamber, said valve having means irrespective of its movement for admitting air to said chamber, and means for igniting the mixture of air and fuel supplied to and within said chamber.

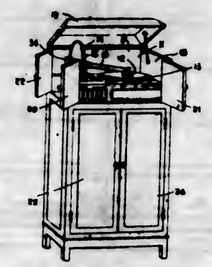
1,386,039. CIRCUIT-INTERRUPTER. CHARLES C. WHITTAKER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 12, 1917. Serial No. 180,050. 10 Claims. (Cl. 200—150.)



5. A circuit interrupter comprising relatively-movable contact members, and relatively-stationary means operatively connected to one of said members for directing a stream of fluid transversely between the coöperating surfaces of said members.

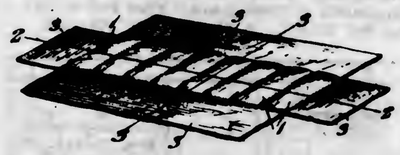
1,386,040. CABINET FOR TYMPANUM-PHONOGRAPHS. EUGENE A. WIDMANN, Brooklyn, N. Y. Filed Jan. 21, 1919. Serial No. 272,388. 3 Claims. (Cl. 214—2.)

1. A cabinet for a tympanum phonograph, having a compartment at its upper end for the reception of the tympanum sound reproducing apparatus, said compartment being of substantially the height of said tympanum apparatus, and at least two of the vertical walls of said compartment being made up of members adapted to be opened and closed, and a hinged lid for the top of



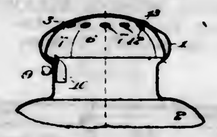
the compartment, whereby the tympanum sound reproducing apparatus may be entirely inclosed within the compartment, or the compartment may be opened up so that the tympanum is substantially freely exposed in substantially all directions to unconfined air during sound reproduction.

1,386,041. SOAP-BAG AND WASHRAG. CORA IRENE SHAW WILSON, Albuquerque, N. Mex. Filed Dec. 28, 1920. Serial No. 432,712. 1 Claim. (Cl. 15—20.)



In a two part wash-rag device of the character stated, a bag, and soap therein, said bag consisting of two sheets of porous washrag material of different areas, the edges of the smaller sheet being united to the face of the larger sheet by stitches within the border portions of the latter, the corners of said border portions being removed forming separate wings of said border portions which are adapted to be folded independently of each other along the line of said stitches flat on either face of the soap-containing bag as above formed.

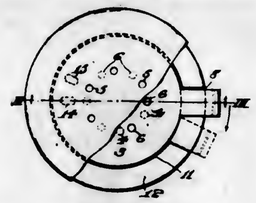
1,386,042. SHAKER TOP OR CAP. RALPH W. WILSON, New York, N. Y. Filed Mar. 22, 1920. Serial No. 367,980. 7 Claims. (Cl. 221—64.)



1. A shaker top or cap comprising a perforated outer member and a rotatable inner member frictionally mounted in the outer member.

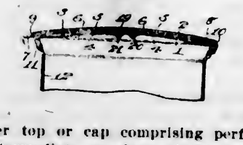
1,386,043. SHAKER TOP OR CAP. RALPH W. WILSON, New York, N. Y. Filed May 8, 1920. Serial No. 379,857. 5 Claims. (Cl. 221—64.)

1. A shaker top or cap comprising inner and outer perforated members and an intermediate rotatable perforated shutter member, all composed of thin sheet material, the inner member having a raised peripheral portion engaging the outer member and a depressed central portion forming a seat for the rotatable shutter member, the inner member pressing the shutter member against the outer member, the said shutter member being provided with a finger piece projecting through the side wall of the outer member, the said raised peripheral portion of the inner member having a break therein of a



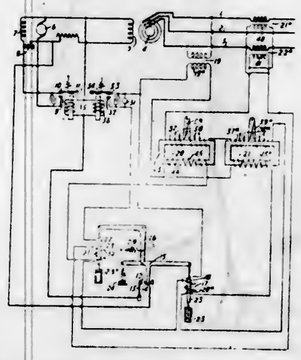
length sufficient to permit the movement of the shutter member and the finger piece, the depressed portion and the said break in the raised peripheral portion of the inner member being of a depth substantially equal to the thickness of the shutter member, to form a powder tight joint therefor.

1,386,044. SHAKER TOP OR CAP. RALPH W. WILSON, New York, N. Y. Filed May 8, 1920. Serial No. 379,858. 8 Claims. (Cl. 221—62.)



1. A shaker top or cap comprising perforated inner, outer and intermediate members of thin sheet material, said intermediate member being provided with oppositely disposed finger pieces projecting through the side walls of the outer member for use in reciprocating the intermediate member, and means for yieldingly holding the intermediate member opened or closed, said means being arranged to spring one of the members out of its normal position as the intermediate member is reciprocated.

1,386,045. ELECTRICAL REGULATOR. WALTER R. WOODWARD, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1916. Serial No. 114,158. 7 Claims. (Cl. 171—241.)



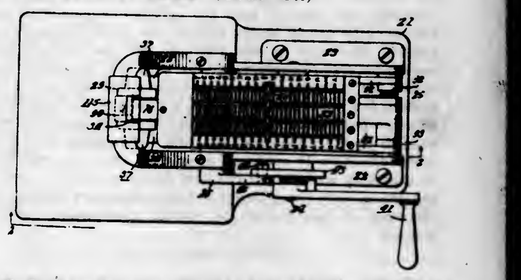
5. The combination with an electrical regulator of the vibrating-contact type comprising a plurality of electromagnets severally having a plurality of energizing windings, of series transformers associated therewith and having primary windings which are connected in series-circuit relationship with some of the windings of said electromagnets and secondary windings which are severally connected in circuit with other windings of said electromagnets.

1,386,046. ADHESIVE FOR LENSES. FRED M. BISHOP, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed Jan. 2, 1917. Serial No. 140,107. 2 Claims. (Cl. 87—17.)
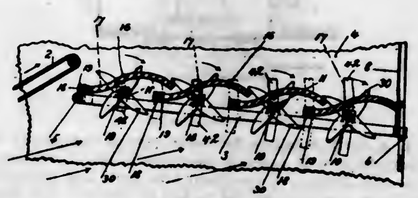


2. A cement comprising Canada balsam, shellac, powdered glass, and a small percentage of phenolic toughening ingredient.

1,386,047. COMBINED TAG AFFIXING AND MARKING MACHINE. WILLIAM BORCHERT and FRED L. BORCHERT, Rockford, Ill. Filed Nov. 23, 1918. Serial No. 263,848. 30 Claims. (Cl. 93—87.)



5. In a marking machine, a plurality of fonts of type bars positioned side by side and relatively movable in parallel planes to position any one type bar of each font at a feeding station, the type bars of each adjacent font having interlocking notches and extensions so that the type bars at the feeding station are movable as a unit to a marking position.

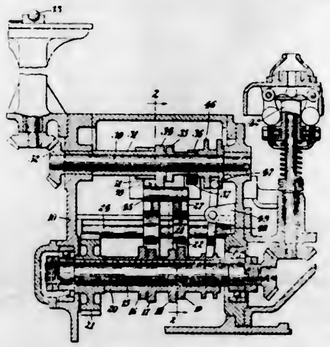
1,386,048. STRAW-RACK. CLYDE E. BRADDY, Pinebluff, Wyo., assignor to Wyoming Thresher Company, Pinebluff, Wyo. Filed Apr. 8, 1920. Serial No. 372,256. 6 Claims. (Cl. 130—23.)



1. In a straw rack, a frame pivoted at its front end, a series of pickers journaled in the frame, a series of grates

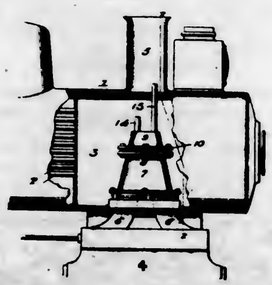
connected at their front ends to the frame and projecting rearwardly over the axes of the pickers to which they pertain, each picker comprising a row of picker blades and each grate comprising a row of grate bars, and means for adjusting the rear end portion of the frame vertically.

1,386,049. FUEL-INJECTION MECHANISM FOR INTERNAL-COMBUSTION ENGINES. HAROLD DAVID BUSH, Greenhithe, Kent, England, assignor to Herbert Merton, Reading, England. Filed Jan. 30, 1920. Serial No. 355,045. 6 Claims. (Cl. 123—140.)



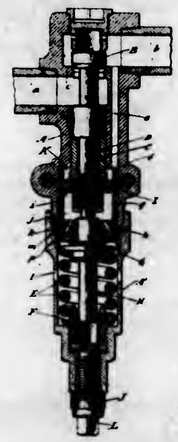
1. In an internal-combustion engine of the kind wherein reversal is effected by producing a counter-explosion in the cylinder, the combination of a fuel-injection pump for injecting fuel directly into the cylinder, a cam-shaft arranged to be driven by the engine, two cams displaced angularly relatively to one another, one for forward and one for reverse running, rotatable with said cam-shaft, and means for bringing either of said cams into and out of operative relation with said pump, the rear face of each cam being so positioned angularly that when the engine is running in one direction and the cam for running in the reverse direction is rendered operative, the said rear face of that cam operates on the said pump to inject a reversing charge into the cylinder to bring about reversal of the direction of rotation of the engine, substantially as described.

1,386,050. DRAFT-EQUALIZER FOR STEAM-BOILERS. JOSEPH V. CARR and FRED W. MATZ, Evansville, Ind. Filed Dec. 23, 1919. Serial No. 347,032. 2 Claims. (Cl. 162—4.)



1. A draft equalizer for steam boilers comprising the combination with a steam discharge nozzle in the smoke box, of a hollow self-contained attachable and detachable discharge nozzle connected to and mounted on the nozzle aforesaid and provided with an internal partition for splitting up the steam into independent streams and a plurality of pipes extending upwardly from the top of said hollow nozzle and respectively in communication with the different chambers of the subdivided body and respectively having discharge mouths located at different heights in the smoke box.

1,386,051. PRESSURE-REDUCING VALVE. WILLIAM DIETER, Brooklyn, N. Y. Filed Feb. 20, 1919. Serial No. 278,204. 8 Claims. (Cl. 50—23.)



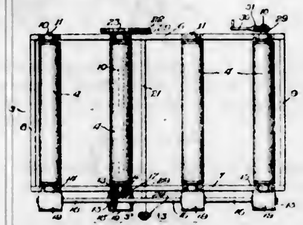
1. A pressure-reducing valve comprising a casing, and a spring-pressed valve or tappet having a balancing plunger, the casing having an annular chamber receiving leakage past said plunger, with a vent therefrom to the outlet, a flexible annular gasket closing said chamber, and means in the casing and on the plunger respectively for engaging said gasket, said means having substantially continuous surfaces affording a support for the entire area of the gasket against the pressure in said chamber, while permitting it to yield to the movement of the valve.

1,386,052. TOW-LINE. JOSEPH DUGGAN, Detroit, Mich. Filed Apr. 15, 1920. Serial No. 374,111. 2 Claims. (Cl. 213—67.)



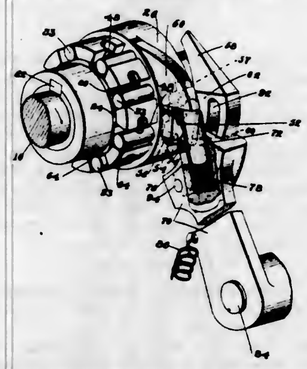
1. A tow line comprising, a main section, and branch sections connected to one end of the main section, and having their free ends formed with eyes, relatively short sections connected to the branch sections and having knotted ends adapted to extend through the eyes of the branch sections, and locking blocks slidably fitted on the eyes of the branch sections for locking the knotted ends of the short sections within the eyes.

1,386,053. LOADING AND UNLOADING DEVICE. JOHN DYER, Chicago, Ill., assignor of one-half to Norman C. Mather, Chicago, Ill. Filed Feb. 16, 1920. Serial No. 359,116. 3 Claims. (Cl. 214—65.)



1. A device of the type described comprising a rectangular frame, a plurality of driven shafts mounted in the sides of said frame, a roller rigidly mounted on each of said shafts, said rollers having smooth surfaces, a bevel gear carried by the end of each driven shaft, a transverse shaft extending transversely with respect to said driven shafts and having bevel gears keyed thereto, each one of said gears being adapted to mesh with one of said first named bevel gears, a casing being adapted to cover each group of gears, a gear mounted on the opposite end of one of the central driven shafts, a driving shaft disposed parallel to said driven shafts and having a gear adapted to engage the gear mounted on said driven shaft, a cogged wheel carried by said driving shaft, a handle loosely mounted on said driving shaft and having a pawl adapted to engage said cogged wheel and rotate it in either direction, whereby said rollers can be rotated intermittently in either direction or continuously in either direction, and a second actuating means carried by one of the driven shafts said means being adapted to coöperate with said driving shaft.

1,386,054. CLUTCH MECHANISM. ALFRED B. FOWLER, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 14, 1917. Serial No. 174,650. 14 Claims. (Cl. 192—27.)

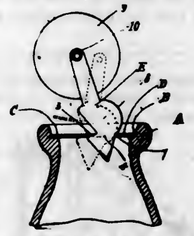


1. A clutch mechanism, having, in combination, a shaft, a series of friction rollers, a driving member loose upon the shaft, a driven member fixed to the shaft, one of said members having a series of recesses for the rollers, a cage for the rollers movable to a limited extent relatively to the recessed member to cause the rollers to engage or disengage the driving and driven members, and means for effecting such relative movement, said means being constructed and arranged to permit free rotation of the driven member until its momentum is substantially absorbed, after disengagement takes place.

1,386,055. PURIFICATION OF INDIA-RUBBER, GUTTA-PERCHA, AND THE LIKE. CHRISTIAN HAMILTON GRAY, London, England. Filed Mar. 29, 1921. Serial No. 456,741. 1 Claim. (Cl. 18—50.)

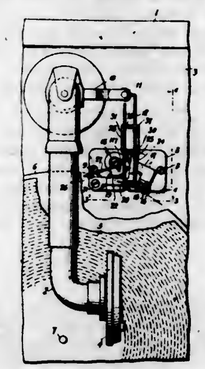
A process for the purification of india rubber, gutta percha and the like from sand or other impurities of the kind described in which the material either in thin sheets or crumb or while undergoing a mechanical operation to expose fresh surfaces is subjected in the presence of water to the action of hydrofluoric acid.

1,386,056. DEVICE FOR REMOVING PAPER CLOSURES FROM MILK-BOTTLES. ROBERT C. GROH, St. Paul, Minn., assignor to Louis F. Dow Company, St. Paul, Minn., a Corporation. Filed Oct. 16, 1920. Serial No. 417,285. 2 Claims. (Cl. 65—47.)



1. A device for the purpose set forth, comprising a thin blade formed with a tip shaped like an inverted V, constituting a piercing point adapted to be forced through the closure disk, a neck in the blade below the V shaped tip narrower than the width between the legs of the V, and a gradually widening portion extending from said neck in a direction away from said tip, as and for the purpose set forth.

1,386,057. AUTOMATIC STOP MECHANISM. ROBERT HEAD, New York, N. Y., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Aug. 16, 1917. Serial No. 186,548. 18 Claims. (Cl. 192—116.)



1. In an automatic stop mechanism, the combination, with a rotatable member, and a member adapted to travel thereacross in either direction; of a brake tending to engage the rotating member; an operating part connected to move relatively to, but in unison with, the traveling

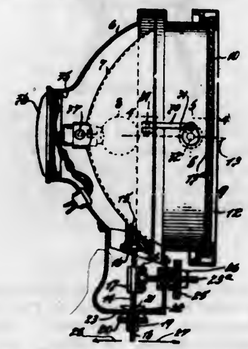
member; means tending to hold said brake in disengaged position during the movement of the traveling member in one direction; and means carried by said operating part for engaging and automatically releasing said holding means when said traveling member reaches a predetermined point in such movement, said releasing means being movable relatively to said operating part to determine the position of such point, said operating part coöperating with the brake to disengage it from the rotating member incident to movement of the traveling member in a reverse direction.

1,386,058. BAG-TIE. CHARLES C. HENDERSON, Spring Valley, Minn. Filed June 10, 1920. Serial No. 387,918. 1 Claim. (Cl. 24—30.5.)



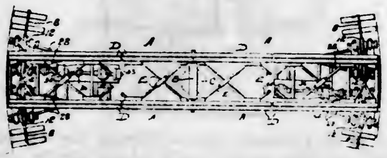
A bag tie including a length of flexible wire and having loops formed at the ends thereof, the loops extending from opposite sides of the length of wire, and the extreme ends of the length of wire extending toward the loop forming a part thereof.

1,386,059. HEADLIGHT. ERNEST E. HILLYER, Port Richmond, N. Y. Filed Jan. 2, 1920. Serial No. 348,955. 4 Claims. (Cl. 240—41.)



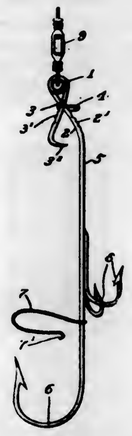
1. In a head light, a casing, a vertically disposed vertically adjustable movable support carried by the casing, a reflector rotatably mounted upon said support, adjustable means carried by the casing to rotate said reflector and adjustable means to actuate the vertically adjustable support longitudinally of the casing to tilt the reflector.

1,386,060. TRUCK CONSTRUCTION FOR TURNTABLES. MEIER GEO. HILPERT, Harrisburg, Pa., assignor to Bethlehem Steel Bridge Corporation, Bethlehem, Pa., a Corporation of Delaware. Filed May 1, 1918. Serial No. 231,858. Renewed Dec. 19, 1919. Serial No. 346,173. 59 Claims. (Cl. 104—43.)



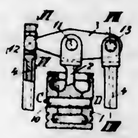
1. An equalizing two-wheel truck for turntables underhung from the wheel axles and having a movable bearing engagement with a girder of the turntable span.

1,386,061. FISHING-TACKLE. HERBERT LAWRENCE JOHNSON, Yarmouth, Me., assignor to George F. Lowell, Freeport, Me. Filed Dec. 29, 1920. Serial No. 433,864. 5 Claims. (Cl. 43—40.)



5. In a bait holder, a resilient head clamp comprising a longitudinally disposed bait supporting member and an oppositely disposed pin end adapted to be passed through the head of the bait and to abut the longitudinally disposed member, a band encircling said members for releasably retaining them in bait clamping relation, and a body clamp permanently engaged at one end with said longitudinally disposed member and having its opposite end releasably engageable with said member.

1,386,062. DOUBLE-PISTON ENGINE. HUGO JUNKERS, Aix-la-Chapelle, Germany, assignor, by mesne assignments, to Opposed Piston Oil Engine Co., Inc., a Corporation of New York. Filed May 19, 1914. Serial No. 839,652. 3 Claims. (Cl. 121—100.)

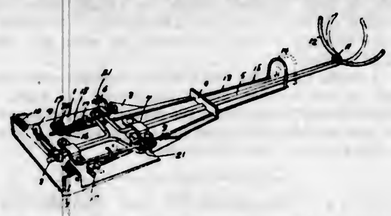


1. In an engine of the type described, the combination of a cylinder, a crank shaft, a piston in the cylinder directly connected to the crank shaft, a second piston in the cylinder, a transverse beam, a power transmitting connection from the transverse beam to the second piston at a point intermediate the ends of said beam, connecting rods pivotally connected at one end to the crank shaft, and a power transmitting connection from the other ends of the said connecting rods to the ends of the transverse beam, one of said power transmitting connections being in a form permitting universal movement.

1,386,063. GOPHER-TRAP. HENRY KUHNHENN, Avoca, Nebr. Filed Sept. 14, 1920. Serial No. 410,134. 5 Claims. (Cl. 43—91.)

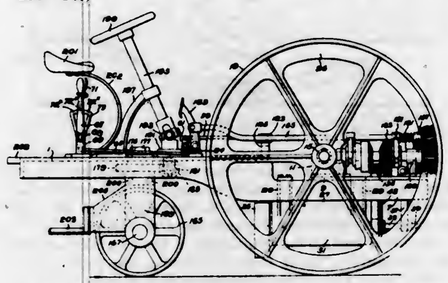
1. A trap of the class described comprising a body constituting a substantially flat structure, upstanding ears formed upon one end of said body, jaws journaled upon said body and provided with laterally extending spring engaging arms, oppositely extending springs secured to said arms for normally swinging said jaws to a closed position, each jaw provided with a laterally extending loop formed intermediate the ends thereof, and substantially

centrally located upon said body, triggers mounted upon said body and adapted to overhang said loops for normally holding said jaws in an operative position, a releasing yoke



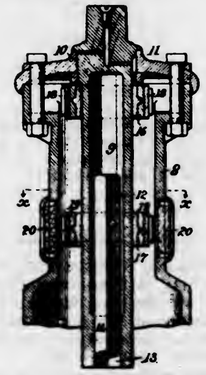
slidably mounted upon said body and engaging said triggers for normally holding said triggers in an operative position, and animal gripping means carried by the outer ends of said jaws.

1,386,064. TRACTOR. JOHN E. LEAVITT, Boston, Mass. Filed Oct. 4, 1915. Serial No. 53,887. 7 Claims. (Cl. 180—17.)



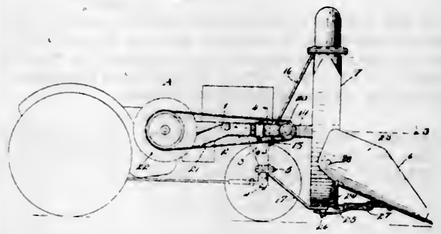
1. A tractor comprising in combination, a pair of driving wheels closely arranged collectively to furnish a narrow tread, a pilot wheel, a frame connecting said driving wheels with said pilot wheel, a motor and transmission means supported by said frame within the circumstances of and principally beneath the axis of said driving wheels to lower the center of gravity of the tractor, a seat mounted on said frame, and a step adjacent the ground beneath said frame to receive the weight of the driver to contribute to the lowering of the center of gravity of the tractor.

1,386,065. INDICATOR-POST. HERBERT M. LOFTON, Chattanooga, Tenn. Filed Aug. 29, 1919. Serial No. 320,578. 3 Claims. (Cl. 251—151.)



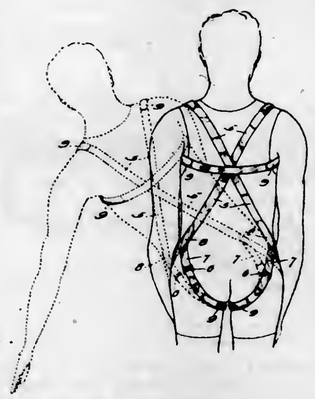
1. In a device for operating valves of the character stated, an indicator post having a window and a rotatable screw-threaded sleeve, combined with two independent target castings to respectively indicate the open and shut positions of the valve, said castings screwed upon the sleeve and guided in the post so as to be adapted to be alternately brought into alinement with the window and adjustable to or from each other to suit valves requiring different numbers of turns in opening and closing them.

1,386,066. SNOWPLOW. FRANK A. LUND, Hartland, Wis. Filed Oct. 20, 1919. Serial No. 331,888. 2 Claims. (Cl. 37—63.)



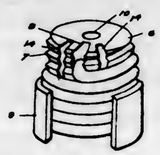
1. The combination with a vehicle, of a conveyer casing carried by the vehicle and having a portion of one side open, a scoop pivoted to the casing and extending downwardly and forwardly on the open side thereof, a spring urging the forward end of the scoop toward the ground, and a stop for positively limiting the upward movement of the scoop, the attached end of the scoop being spaced above the bottom of the casing, an apron depending from the attached end of the scoop to cover the open portion of the casing, and a conveyer in said casing.

1,386,067. SHOULDER AND BODY BRACE. ROBERT EDWIN MASON, (now by judicial change of name, Mayor Mason,) Detroit, Mich. Filed June 9, 1920. Serial No. 387,776. 1 Claim. (Cl. 2—93.)



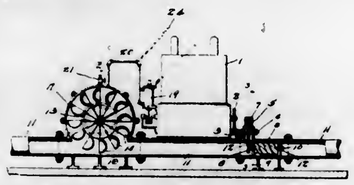
A combined shoulder and body brace including a band, the intermediate part of which being adapted to embrace the back and shoulders of the human body, the end portions being extended in crossed relation across the back and downwardly and forwardly across the thigh and passed rearwardly under the crotch, and tubs carried by the end portions at points rearwardly of the thigh engaging parts for detachable connection to the extremities of the band.

1,386,068. SPECTACLE CONSTRUCTION. ALBERT E. MAYNARD, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a Voluntary Association of Massachusetts. Filed May 10, 1920. Serial No. 380,302. 4 Claims. (Cl. 18—3.)



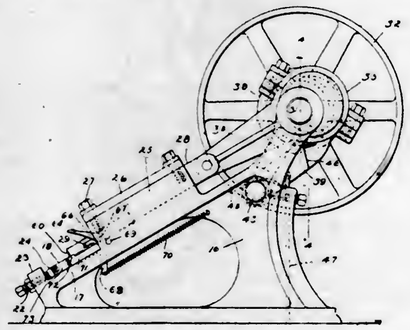
1. The process of forming non-metallic parts for ophthalmic mountings, consisting in grooving the stock, winding the stock on a suitable arbor, treating the stock to cause it to set to the form of the arbor, and subsequently cutting the stock into individual sections.

1,386,069. WATER-POWER SYSTEM. HANS MORTENSEN, Sr., Penrose, Colo. Filed Oct. 6, 1920. Serial No. 415,129. 3 Claims. (Cl. 60—54.)



1. The combination with a prime mover, a closed conduit, and an impeller to cause water currents in the conduit, of a motor wheel having submerged buckets in the conduit and a housing over said wheel, and means for introducing fluid in said housing to maintain the proper water level therein.

1,386,070. MACHINE AND METHOD FOR ROLLING CONICAL TIPS ON LACINGS. GEORGE G. PERKINS, Lynn, Mass. Filed Apr. 22, 1919. Serial No. 291,808. 15 Claims. (Cl. 153—1.5.)

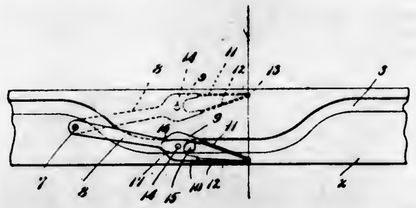


1. The method of forming conical tips on lacings which consists in laying a binder blank flat upon a work support having an uncovered exposed supporting surface with one edge beside a forming shoulder, laying a lacing end upon said blank, lowering a confining cover over the blank and lacing and upon said shoulder, and then advancing the complemental forming die over the work support and toward said shoulder, said die having a shoulder opposed to the first-named shoulder and shaped with a concave conical surface.

7. A lace tipping machine comprising a die having a forming shoulder and a supporting portion beside said shoulder, a complemental die with an opposed forming shoulder movable over said work support and parallel thereto, a cover piece carried by said movable die in advance of said shoulder, means for raising said cover piece when the die is retracted, and means for lowering it upon the shoulder of the first named die when the other die is advanced.

14. A lacing tip binder blank having opposite side edges inclined to one another, and substantially the whole of such blank being in one plane, the corner included between one of said inclined edges and the longer end edge of the blank being bent up out of such plane.

1,386,071. STRAND-GUIDE FOR BRAIDING-MACHINES. ANKER PETERSEN, Winthrop, Mass., assignor to American Wire-Mold Company, Hartford, Conn., a Corporation of Connecticut. Filed July 30, 1920. Serial No. 400,171. 11 Claims. (Cl. 28—4.)



1. A braiding machine comprising a composite therad lever having rigid and flexible portions, the flexible portion being substantial length as compared with the rigid portion and extending beyond the free extremity of the latter, said flexible portion having a thread guide adjacent its extremity, pivotal means engaging the rigid portion of the lever, and a cam follower adjacent one end of said rigid portion.

1,386,072. BEAD-CABLE FOR AUTOMOBILE-TIRES. ALPHONSO COMSTOCK PRATT, Deep River, Conn. Filed Jan. 20, 1921. Serial No. 438,577. 3 Claims. (Cl. 152—13.)

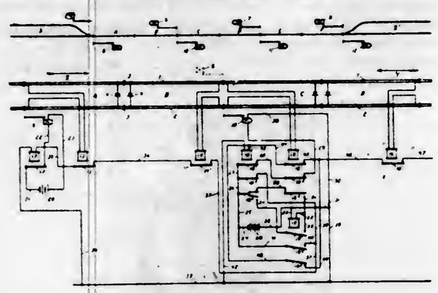


1. A bead cable comprising the combination of a core and a casing on the core consisting of a plurality of convolutions of spirals with the spirals of the several convolutions lying side by side, the core and the casing being wholly disconnected one from the other so that the casing as a whole may move angularly upon the core.

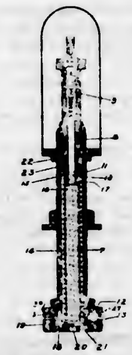
1,386,073. SIGNALING SYSTEM FOR SINGLE-TRACK RAILWAYS. NEIL D. PRESTON, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed July 8, 1916, Serial No. 108,182. Renewed Dec. 11, 1919. Serial No. 344,270. 7 Claims. (Cl. 246—33.)

1. In a signaling system for railroads, in combination: two track circuit sections; a circuit controller governed by one track circuit section and closed when that track

circuit section is occupied; a second circuit controller governed by both of said track circuit sections and opened when either of said track circuit sections is occupied; a device adapted to be governed electrically; a circuit for energizing said device including in series said circuit controllers; means governed by said device for preventing the opening of said second circuit controller by a train on said first mentioned track circuit section until said electrically operable device has operated; and means for signaling controlled by said device.



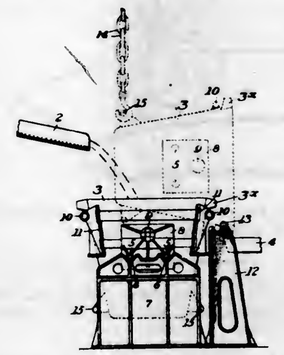
1,386,074. TIRE VALVE AND GAGE. ISIDORE PULVERMAN, Warren, Pa. Filed Apr. 21, 1919. Serial No. 291,567. 4 Claims. (Cl. 152—11.5.)



1. In a tire valve and gage, the combination of a sleeve having a tube engaging shoulder at its inner end with a screw threaded socket therein; a valve stem containing a valve telescopically mounted in the sleeve; and expansible tubular element comprising a rubber tube secured to the end of the stem and a coil spring outside of the tube secured to the stem; means arranged in the socket for securing the opposite end of the coil spring; a flange on the rubber tube extending over the floor of the socket to form a seal against the entrance of air to the sleeve outside the tube; and devices for clamping the flange in the socket.

1,386,075. LIQUID-METAL-TRANSFER APPARATUS. EDGAR J. REILLY, Youngstown, Ohio, assignor to The William B. Pollock Company, Youngstown, Ohio, a Corporation of Ohio. Filed Jan. 30, 1917. Serial No. 145,439. 1 Claim. (Cl. 22—79.)

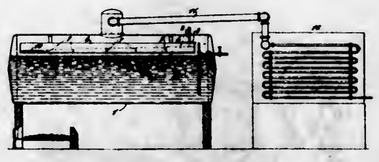
The herein described apparatus for transferring molten metal from a melting furnace to molds, comprising a trough extending from a metal furnace, another trough for carrying the metal to the molds, and having its receiving end separated from and at a lower level than the discharge end of the first-named trough, a stand placed intermediate the adjacent ends of the two troughs, said stand having one set of open bearings at a lower fixed level for supporting a ladle in upright position and another set of open bearings at another fixed level to be engaged by the ladle when tipped, and a large capacity open top, top-pour, metal-receiving and mixing vessel tiltably mounted on said stand in a position to receive metal from the first named trough and to discharge it into the second named trough, said troughs being generally fixed with respect to said vessel and the latter being tiltable between said troughs, substantially as described.



1,386,076. OXIDATION AND COLORATION OF FERROUS SURFACES. TITO RONDELLI, Turin, and QUIRINO SESTINI, Bergamo, Italy, assignors of one-third to Sestron (Foreign Patents) Limited, London, England. Filed Aug. 24, 1920. Serial No. 405,599. 7 Claims. (Cl. 204—1.)

1. The process for oxidizing ferrous surfaces which consists in submitting the surface exclusively to anodic oxidation in a hot concentrated alkaline electrolyte containing an oxidizing agent.

1,386,077. METHOD OF DISTILLATION OF OIL. EDWARD A. RUDIGIER, Bayonne, N. J., assignor to Standard Oil Company, a Corporation of New Jersey. Filed May 27, 1918. Serial No. 236,717. 2 Claims. (Cl. 196—25.)

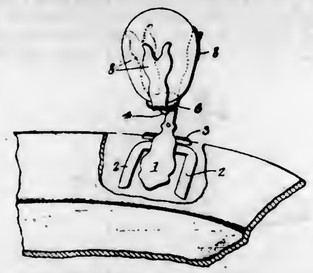


1. The method of treating oil to remove water therefrom, which consists in passing the oil at atmospheric temperature onto an extended surface located in the vapor space of a heated still containing a body of oil undergoing distillation, permitting the oil to flow over said surface and into the main body of oil being distilled, subjecting the oil while on said surface to a temperature evolved from said distillation sufficient to vaporize the water contained in the oil on said surface, and conducting off and condensing the vapor product.

1,386,078. EGG-HOLDER. RICHARD F. SCHULZE, Shelbyville, Ind. Filed Feb. 18, 1921. Serial No. 446,008. 1 Claim. (Cl. 65—12.)

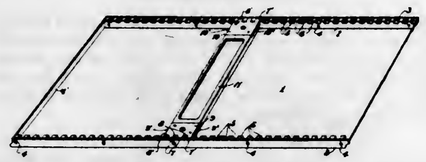
In an egg holder, the combination of means for holding an egg, a plate engaging clamp having a reversely bent arm

member to which the egg holding means is attached, and a laterally extending plate within the plate engaging clamp



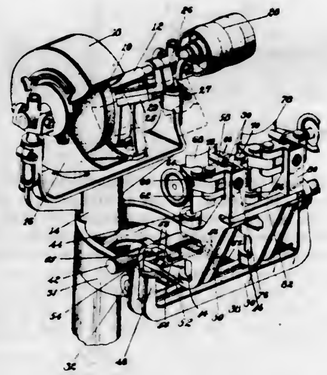
to contact with the edge of the plate to prevent damage to the device if pressed on too hard.

1,386,079. PRINTER'S GALLEY. JOHN W. SHIELDS, Springfield, Mass. Filed Feb. 21, 1921. Serial No. 446,586. 3 Claims. (Cl. 276—43.)



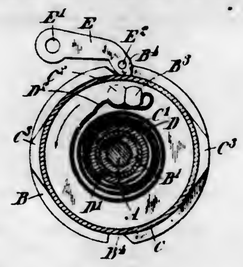
1. In a printer's galley, the combination with a base portion having upturned side members, of graduated bars secured to the side members, a gage bar having notched plates secured to the ends of the same and adapted to engage the graduated bars, the notches in said plates being so arranged that when said bar is reversed its original position will be changed a distance equal to one graduation, as described.

1,386,080. GRINDING-MACHINE. RALPH C. SIMMONS, Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 2, 1916. Serial No. 134,686. 11 Claims. (Cl. 51—100.)



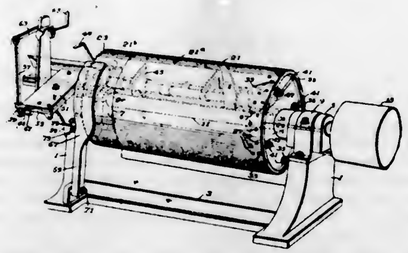
1. In a machine of the type described, a support, a rotary grinding element, a former adjustably mounted on said support and movable radially of the grinding element, a gage for determining the relative positions of said former and grinding member having two contact points associated with said former and grinding member respectively, said gage being movably mounted to assume a plurality of positions parallel to the axis of said grinding element.

1,386,081. MAGNETO-STARTER. JOSEPH REGINALD MONTAGUE STANFIELD, Cardiff, Wales. Filed Nov. 23, 1920. Serial No. 426,077. 3 Claims. (Cl. 123—149.)



1. In yielding locking means for the driving and driven members of a magneto-starter the combination with one of the aforesaid movable members of a portion of spring which moves with said member, and a pin which moves with the other member, the said spring portion being so shaped that it provides a butting face for the pin sufficient to effect the required locking of the one member relatively to the other but not sufficient to prevent such locking from being forced for starting purposes and said spring portion further being so positioned that for starting purposes it is displaced by the said pin in an approximately radial direction relatively to the axis of rotation of the members, the resiliency of the spring tending always to keep the said butting portion in the engaging position relatively to the pin, substantially as set forth.

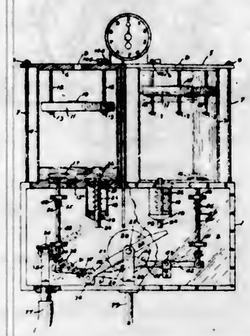
1,386,082. DRUM-SAW MACHINE. WILLIAM M. WHITNEY, Winchendon, Mass., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass., a Corporation of Massachusetts. Filed Oct. 27, 1920. Serial No. 419,819. 10 Claims. (Cl. 143—85.)



1. In a drum saw machine, the combination of a shaft, a head thereon, a drum saw having an internal collar larger than and adapted to receive said head, and adjusting screws threaded into said collar bearing against said head for adjusting the drum saw to center the same in respect to the axis of said shaft.

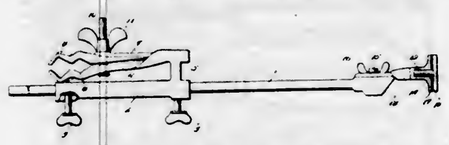
1,386,083. MEANS FOR MEASURING LIQUIDS. CLARENCE B. YOUNT, Montgomery county, near Union, Ohio. Filed Mar. 19, 1920. Serial No. 367,120. 9 Claims. (Cl. 221—112.)

1. In a device of the type described, the combination with a liquid measuring vessel having an outlet opening, of a liquid receiving tank below said vessel with which said outlet opening communicates, a valve adapted to open and close said opening, a rocker arm, means operatively connected between said rocker arm and valve to open the latter when one end of the rocker arm is depressed, means actuated by the liquid in the vessel, when full, to depress



one end of said rocker arm slightly beyond a horizontal position, and resilient means connected to the other end of said rocker arm, for throwing the latter to an extreme position to open the outlet valve after the first named end of said rocker arm has been depressed by the liquid actuating means slightly beyond a horizontal position.

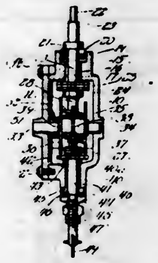
1,386,084. ATTACHMENT FOR T-STANDS. JOHN SELDEN ADAMSON, San Antonio, Tex. Filed July 27, 1920. Serial No. 399,225. 2 Claims. (Cl. 248—30.)



1. An attachment for display stands comprising a rod having means whereby the same may be secured to a display stand, said rod having one end enlarged and formed with a conical socket having its axis extending at right angles to the axis of the rod, an arm having a conical head fitted within said conical socket and having a central opening provided with smooth side walls, a threaded stem extending upwardly from the bottom wall of said socket and through the opening in said head, a head retaining nut secured on said stem, and article engaging means carried by the end of said arm.

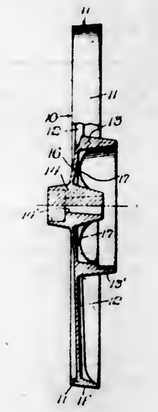
1,386,085. VALVE-GRINDER. FRANS O. ALBERTSON, Sioux City, Iowa, assignor to Albertson & Company, Sioux City, Iowa, a Corporation of Iowa. Filed Oct. 13, 1920. Serial No. 416,625. 3 Claims. (Cl. 51—29.)

1. A valve grinder comprising a driving shaft adapted to be engaged and rotated by a chuck, a casing, a removable cover plate for said casing, a spur gear rigidly secured to said driving shaft, a worm shaft disposed parallel to said driving shaft, a second spur gear rigidly secured to said worm shaft and meshing with said first-mentioned spur gear, a worm formed integral with said worm shaft, a third shaft disposed at right angles to said worm shaft, said third shaft being journaled in said cover plate and a socket in said casing, spring means for holding said third shaft in said socket, a pair of mutilated gears rigidly secured to said third shaft, the leading tooth of each mutilated gear being bent outwardly in a direction away from the other mutilated gear, a gear rigidly secured intermediate the said mutilated gears to said third shaft and meshing with said worm, a driven shaft disposed coaxially with said driving shaft and journaled in said casing, an end thrust bearing collar adjustably secured to said driven shaft, bearing balls between said collar and casing on the



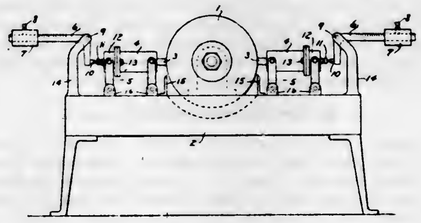
inner side of said collar and the outer side of said casing, spring means for maintaining engagement between said collar and bearing balls, and a spur gear rigidly secured to said driven shaft and meshing with said mutilated gears.

1,386,086. VEHICLE-WHEEL. RUSSELL A. ALGER, Detroit, Mich. Filed Jan. 14, 1921. Serial No. 437,143. 17 Claims. (Cl. 301—66.)



1. An automobile wheel of steel comprising in an integral forged structure, a hub, a felly, connecting spokes and a brake-drum.

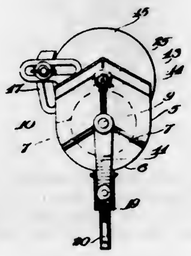
1,386,087. ABRASION-TESTING MACHINE. GEORGE S. BLANKENHORN, Milwaukee, Wis. Filed Feb. 9, 1917. Serial No. 147,931. 8 Claims. (Cl. 73—51.)



1. In combination, means for reducing materials by abrasion, means for holding a sample of material, means

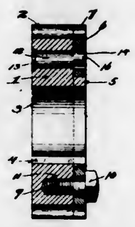
for guiding one of said means to effect motion of translation thereof, and means for urging said reducing and said holding means horizontally relatively toward each other with substantially constant force.

1,386,088. TOOL-GRINDER. WILLIAM J. F. BOETTCHER, Chicago, Ill. Filed Mar. 18, 1919. Serial No. 283,338. 1 Claim. (Cl. 74—56.)



A gear case for hand-operated tool grinders comprising a trough made in one piece and having its top open at a point above the gears, and a gable shaped cover plate for said top, said plate having a depending lug adapted to receive a cross pin passed through the side walls of the trough.

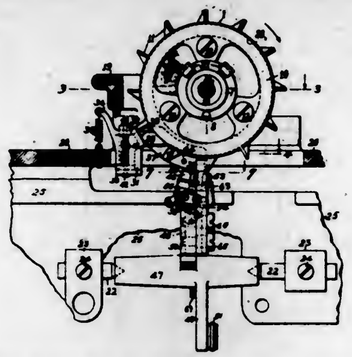
1,386,089. TOOTHED GEAR. THOMAS FRANK BUTZEN, Madison, Wis., assignor of one-half to Dudley Montgomery, Madison, Wis. Filed July 20, 1920. Serial No. 397,578. 1 Claim. (Cl. 74—28.)



In a toothed element, a toothed body section, a toothed take up section movable with respect to the body section and having an opening therethrough, a pin journaled in the body section, an eccentric head on one end of the pin and disposed in the opening of the take up section, said head having a kerf for a screw driver and accessible from the outer side of the toothed section, the other end of the pin being upset and countersunk in the body section whereby to frictionally hold it against accidental rotation, said take up section being oscillated with respect to the body section when the pin is rotated, whereby to aline or disaline the teeth of the section.

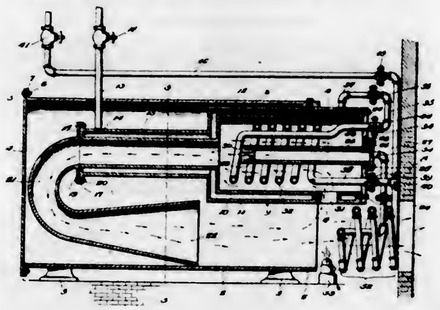
1,386,090. TYPEWRITING-MACHINE. DANIEL A. CARPENTER, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed June 5, 1920. Serial No. 386,725. 32 Claims. (Cl. 197—88.)

30. In an escapement mechanism, a toothed escape wheel, a dog carrier, a dog thereon movable transversely of the axis of said wheel and also longitudinally of said axis, and key actuated means for moving said dog independently of its carrier in the last mentioned direction,



said dog carrier and said key actuated means being mounted independently of each other.

1,386,091. METHOD AND APPARATUS FOR BURNING FUEL-OILS. CHARLES E. CHAPMAN, Fort Edward, N. Y., assignor of one-half to Joseph Goodfellow, Fort Edward, N. Y. Filed Mar. 15, 1920. Serial No. 365,770. 16 Claims. (Cl. 158—5.)



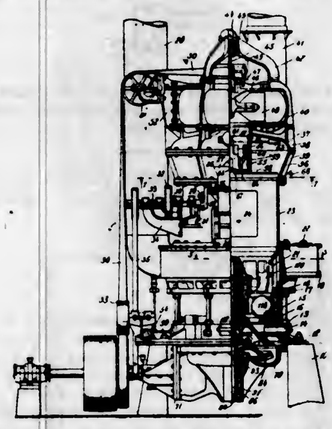
1. The herein described method of burning fuel oils consisting in commingling oil with steam under pressure, nebulizing the product in a steam jacketed retort, circulating a portion of the heated products of combustion through such retort during nebulization, and practically excluding air.

1,386,092. WASHER. GEORGE H. COLE, Wenona, Ill. Filed Apr. 1, 1920. Serial No. 370,612. 1 Claim. (Cl. 151—52.)



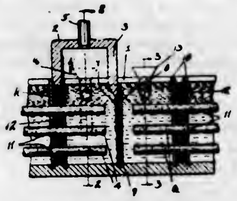
A washer comprising a sheet metal plate having a central opening to receive a bolt, and having a plurality of depending tapered prongs stamped out of the body of the washer and extending at right angles thereto, and located contiguous to the periphery thereof, and also provided with a plurality of resilient tangs stamped out of the body of the washer contiguous to its periphery and inclined upwardly relatively to the surface thereof and adapted after depression to spring back to locking position, said last mentioned tangs being located alternately with respect to said first mentioned tangs.

1,386,093. PULVERIZER-MILL. HARRY RAYMOND COLLINS, Allentown, Pa., assignor to Fuller-Lehigh Company, a Corporation of Pennsylvania. Filed Sept. 9, 1920. Serial No. 409,069. 23 Claims. (Cl. 83—45.)



1. A pulverizer mill comprising a base, a grinding ring mounted on the base, a casing mounted on the grinding ring and means connected between the base and the casing whereby the latter may be lifted to permit the grinding ring to be laterally removed.

1,386,094. ELECTROLYTIC APPARATUS. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Sept. 3, 1918. Serial No. 252,324. 12 Claims. (Cl. 204—58.)



1. In apparatus of the class described, the combination of a cell having a partition depending below the normal level of the solution therein, an anode and a cathode on the respective sides of such partition, a closure for the anode side of the cell, the other side being open, and a diaphragm depending substantially vertically from such partition between said anode and cathode in spaced relation thereto.

1,386,095. ELECTRODE ELEMENT FOR GALVANIC BATTERIES AND METHOD OF PRODUCING SAME. THOMAS A. EDISON, Llewellyn Park, West Orange, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a Corporation of New Jersey. Filed Nov. 6, 1919. Serial No. 336,208. 32 Claims. (Cl. 204—38.)

1. An electrode element for galvanic batteries comprising an agglomerated mass of finely divided oxid of copper held together by a binder comprising cupric oxid formed *in situ* in said mass, substantially as described.

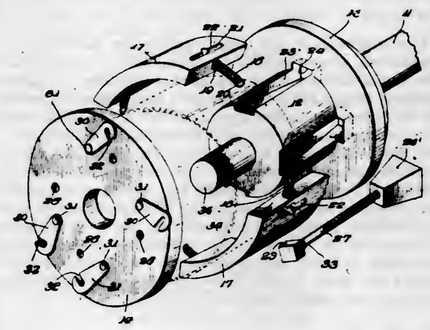
1,386,096. BADGE-FASTENER. FRANK J. FEHN, East Orange, N. J., assignor to The Whitehead & Hoag Company, Newark, N. J., a Corporation of New Jersey. Filed Apr. 10, 1919. Serial No. 288,911. 1 Claim. (Cl. 24—103.)

In a badge fastener, the combination of a sheet metal plate having integral ears and an integral keeper hook pressed up to one side of the main body, said ears projecting edgewise from the main body in spaced parallel planes, the keeper hook projecting edgewise from said body in a plane at right angles to that of the ears, a pintle between and upon the ears, a pin looped around the pintle



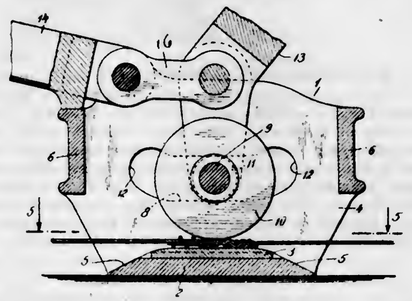
and having its ends extending in the same general direction therefrom, one end being movable into and out of engagement with the hook, and the other end being movable into and out of engagement with the main body of the plate at a point between the pintle and hook and placed under tension when the pin is engaged with the hook.

1,386,097. EXPANSIBLE PACKING. JAMES J. FISHER, Junior, W. Va., assignor of one-half to William L. Fisher, Tunnelton, W. Va. Filed Nov. 7, 1919. Serial No. 336,275. 8 Claims. (Cl. 74—109.)



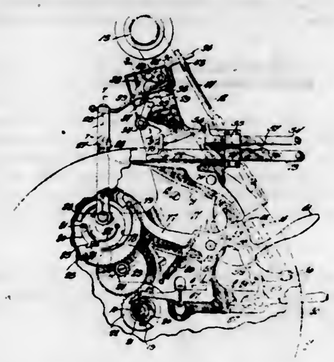
1. In an expansible packing, a plurality of arcuate sections having their adjacent ends yieldably connected, a packing surrounding the arcuate sections, and means to adjust the arcuate sections.

1,386,098. SEALING-TOOL. ELLSWORTH E. FLORA, Chicago, Ill., assignor to The National Binding Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 9, 1917. Serial No. 195,502. Renewed Dec. 24, 1920. Serial No. 433,053. 5 Claims. (Cl. 81—9.1.)



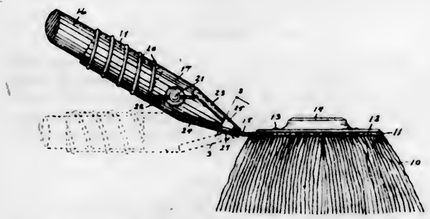
1. In a sealing tool the combination of a stationary support or anvil for the tie to be sealed, a compressing member, means for advancing said member first into engagement with a portion of the tie to compress the same, and then over the tie in a direction parallel with the support to progressively compress the successive portions of the tie.

1,386,099. PHONOGRAPH-OPERATING MECHANISM. ARTHUR H. FRANKE, Manitowoc, Wis. Filed Aug. 30, 1918. Serial No. 252,102. 9 Claims. (Cl. 274—15.)



1. A phonograph operating mechanism including the combination with a turn table and spindle, a pivoted tone-arm and a sound box carried by the tone-arm, of mechanism for lifting the sound box and mechanism for swinging the tone-arm outwardly to initial position, a clutch drive connection between said mechanism and spindle, a lever resiliently urged to rotation in one direction, a tone-arm actuated release means for said lever, a connection between said lever and the clutch for operating the clutch upon swinging movement of the lever, means movable with the resetting mechanism for resetting the lever, a brake block carried by said lever and engageable with the turn table upon swinging movement of the lever, and means for holding the lever against movement to engage said block with the turn table.

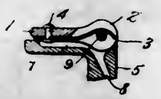
1,386,100. MOP OR BRUSH. FRANK H. FRENCH, Preston, Iowa. Filed Dec. 23, 1919. Serial No. 346,943. 4 Claims. (Cl. 306—1.)



1. In a brush or mop, a brush member, a tongue mounted on and extending laterally from said member, a handle, a pair of clamp members adapted laterally to engage opposite sides of the handle, said clamp members having opposed inwardly opening grooves arranged angularly with respect to the axis of the handle, said grooves adapted to engage side margins of said tongue, said clamp members being formed with holes, lugs on side margins of said tongue adapted to extend through said holes, and means for forcing the clamp members toward said tongue.

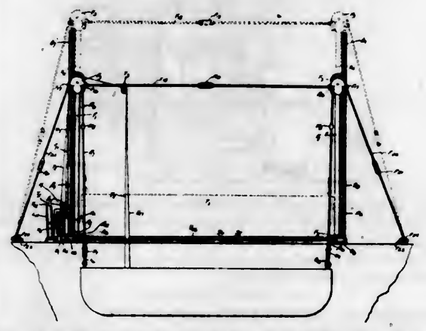
1,386,101. CLOSURE. GOTTLOB FUEGEL and HERMAN SCHMID, Brooklyn, N. Y., assignors, by mesne assignments to Apollo Magneto Corporation, Brooklyn, N. Y., a Corporation of Delaware. Filed Aug. 30, 1919. Serial No. 320,914. 1 Claim. (Cl. 184—91.)

A closure for an oil opening, comprising a body having a pair of arms spaced apart and extending parallel to each other from one end of the body, said arms having perforations to receive a pivot pin, the closure being recessed on its lower or inner face; and a spring secured to the said



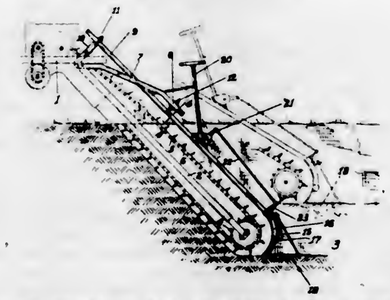
recessed face and projecting between said arms, said spring being curved between said arms and extending across the edges of the openings therethrough.

1,386,102. LIFEBOAT-DERRICK. CHARLES H. FULLER, Portland, Oreg. Filed May 19, 1919. Serial No. 298,105. 4 Claims. (Cl. 9—22.)



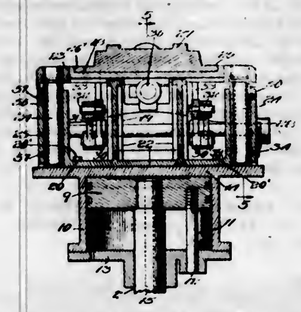
1. A life boat derrick consisting of a pair of derricks adapted to receive a life boat between them, each derrick consisting of a vertical mast mounted on a deck and having a boom hinged near its foot, a hauling line arranged to pass from a point on the deck inboard from said mast, over the top of said mast, thence over the head of said boom to a boat block, thence back through said boom head to a point on the deck outboard from said mast.

1,386,103. GRADE-MAINTAINING DEVICE FOR DITCHING-MACHINES. JOHN E. FUNK, Stockton, Calif. Filed Feb. 25, 1920. Serial No. 361,200. 5 Claims. (Cl. 37—24.)



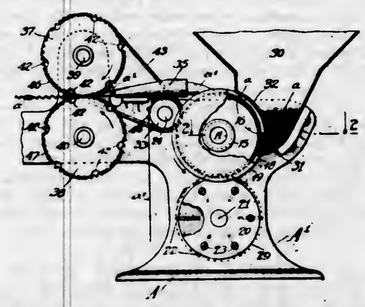
1. In combination with the digger boom of a ditch digging machine having a sprocket wheel on its lower end adjustable lengthwise of the boom and an endless digging device passing thereover, a curved shoe mounted to the boom concentric with the sprocket wheel behind the same and having a rearward extension adapted to bear on the bottom of the ditch at all times, means for altering the vertical level of the shoe while maintaining the concentric alinement thereof with the sprocket wheel, and independent means for maintaining such concentric alinement irrespective of the adjusted position of the sprocket wheel relative to the boom.

1,386,104. MOLDING-MACHINE. WILLIAM B. GEORGE, Chicago, Ill. Filed May 20, 1920. Serial No. 385,191. 9 Claims. (Cl. 22—48.)



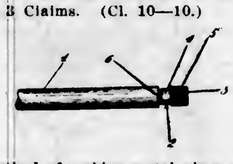
1. In a machine of the kind described, a pattern and a flask supporting mechanism comprising a relatively fixed pattern plate support, arranged within a relatively movable flask supporting frame, the pattern supporting plate having a shallow recess for receiving the pattern plate, a ledge surrounding the recess within which the pattern plate is adapted to fit with its upper face in the plane of the top edge of said ledge.

1,386,105. MACHINE FOR FORMING PACKAGES. EDWARD E. GRAY, Plano, Ill., assignor, by mesne assignments, to Ivers-Lee Company, Newark, N. J., a Corporation of Delaware. Filed June 5, 1916, Serial No. 101,804. Renewed Jan. 19, 1921. Serial No. 438,531. 15 Claims. (Cl. 93—5.)



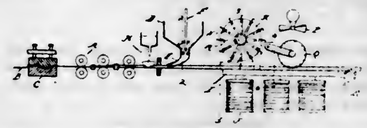
1. In a machine for forming packages, the combination of means for supporting a supply of package forming material, means for depositing articles thereon, means for folding said material, and means for crimping said folded material to secure the same in folded position.

1,386,106. METHOD OF MAKING METAL PLUGS. JOHN HALBRITTER, Boston, Mass., assignor to Walworth Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Mar. 30, 1920. Serial No. 370,028. 3 Claims. (Cl. 10—10.)



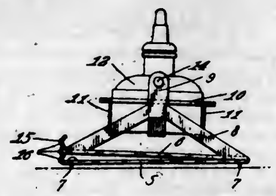
1. The method of making metal plugs which comprises the incising of a metal rod at a point removed from the end of the rod a distance substantially equal to the length of the body of the plug desired to be obtained whereby forward of said cut there is left a portion of the rod forming the unfinished body of the plug and back of said body a portion of the rod forming the unfinished head of the plug, externally threading the unfinished body of the plug and thereby finishing the same, cutting the then finished body and unfinished head of the plug from the rod, and shaping and thereby finishing the head by application of pressure laterally thereto.

1,386,107. MACHINE FOR FORMING FINISHING-MOLDING. LEWIS LEONARD HAMILTON, Detroit, Mich. Filed Jan. 12, 1920. Serial No. 350,992. 8 Claims. (Cl. 207—11.)



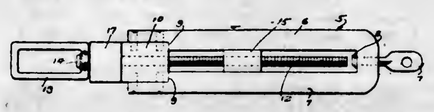
2. The combination with means for advancing a molten metal filled strip, of magnetic means for drawing securing devices into the molten metal and retaining the same until the metal is solidified.

1,386,108. INKWELL. ROLAND HARDING, Groton, N. Y. Filed Oct. 9, 1920. Serial No. 415,742. 4 Claims. (Cl. 120—73.)



4. A bottle support comprising a base, an upper section formed integral with the base and adapted to move with respect thereto, an upwardly extending arm formed integral with the base and having notches, said notches adapted to accommodate a portion of one edge of the upper section to support the upper section in its positions of adjustment, and pivotal bottle supporting means carried by the upper section.

1,386,109. WIRE SPLICE AND STRETCHER. CHRISTIAN E. HATFIELD, Florence, Okla. Filed Dec. 22, 1920. Serial No. 432,554. 3 Claims. (Cl. 24—19.)

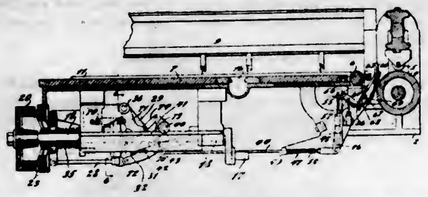


3. A device of the character described comprising a yoke, a bearing member carried by and closing one end of the yoke, a threaded rod freely movable through said bearing member, a block having a threaded opening, said rod being rotatable in said opening, said block being slidable longitudinally of the yoke, between the arms, and a many sided collar carried by the end of the rod, whereby the rod is rotated through the medium of a suitable implement engaged with the collar.

1,386,110. DOUBLE-SCORING MACHINE. OTTO M. HOCH, Rochester, N. Y., assignor to M. D. Knowlton Company, Rochester, N. Y., a Corporation of New York. Filed Nov. 2, 1920. Serial No. 421,242. 11 Claims. (Cl. 164—62.)

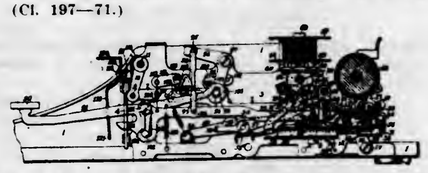
1. In a machine of the class described, the combination with a clutch and clutch-controlling mechanism, of a latch

normally maintaining said mechanism with the clutch released, a trip member adapted to be actuated by a moving sheet, means for returning said member to its normal



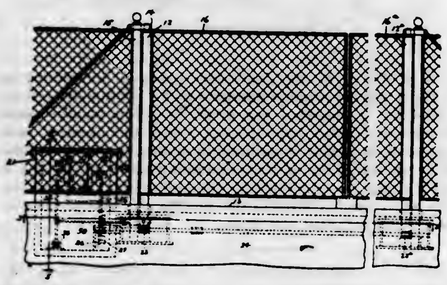
position upon the passage of the sheet thereover, and means operative upon the return movement of the trip member to release the said latch and thereby permit engagement of the clutch.

1,386,111. TYPEWRITING-MACHINE. JOSEPH B. HOLDEN, Utica, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 13, 1920. Serial No. 351,197. 17 Claims. (Cl. 197—71.)



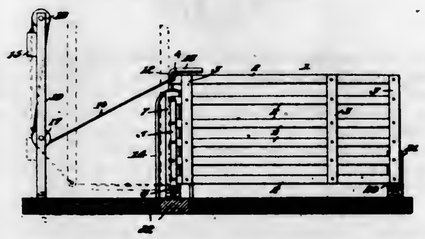
1. In a top strike typewriting machine, the combination of a carriage, a platen carried thereby, and means for affording a bodily case shift movement of the carriage fore and aft of the machine, said means including a shift frame, and a pair of parallel upright arms which support the rear end of said shift frame, said upright arms being pivoted at their lower ends to the rigid framework and being pivoted at their upper ends to the shift frame, the latter pivots being substantially in the same vertical plane with the axis of the platen when the latter is in both lower case position and upper case position while the first mentioned or lower fixed pivots are out of said vertical plane when the platen is in normal or lower case position but by reason of the shifting of the platen and the upper or shiftable pivots the said lower fixed pivots lie substantially in said vertical plane when the platen is moved to the upper case position whereby at this time said upright arms are substantially dead-centered relatively to the axis of the platen and the printing line.

1,386,112. APPARATUS FOR OPERATING GATES, &c. LOUIS V. HOMAN, South Dartmouth, Mass. Filed June 1, 1920. Serial No. 385,409. 3 Claims. (Cl. 39—7.)



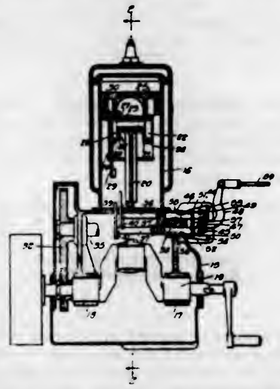
1. Gate-operating mechanism comprising, in combination, a reversible motor, a motor-driven gate, torque-transmitting connections between the motor and the gate, and motor-controlling mechanism operable by a vehicle approaching the gate to open the gate, and by a vehicle leaving the gate to close the gate, said mechanism including normally raised platforms located at opposite sides of the gate and depressible by vehicle wheels approaching and leaving the gate, a controlling member associated with the motor and adapted to occupy either of two operative positions and an intermediate neutral position, an oscillatory arm engaged with said controlling member, and adapted to move the latter to either of said positions, flexible connections between said platforms and said arm, and means operable by the gate when the latter reaches an open and a closed position, to move the oscillatory arm and controlling member to the neutral position of the latter, and thus stop the motor.

1,386,113. FARM-GATE. EZRA B. HOUCK, Peoria, Ill. Filed June 18, 1920. Serial No. 389,836. 2 Claims. (Cl. 39—60)



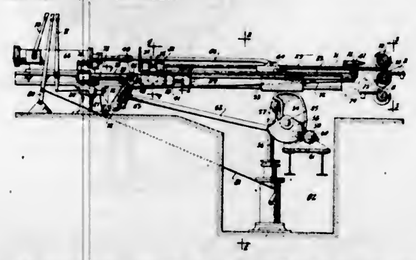
1. The combination of a horizontal rock shaft, a gate consisting of rails and braces secured to and connecting the rails between the ends thereof, a vertical bar secured to and connecting some of the rails at the ends thereof, the lower end of said bar being rigidly secured to said shaft whereby rocking of the shaft will tilt the gate in its own vertical plane, a post disposed in the plane of the gate in spaced relation to the rocking end thereof, a counterbalance supported on said post, a flexible connection between said counterbalance and the adjacent end of the upper rail, outwardly facing pinions secured to the ends of the rock shaft, vertical shafts adjacent the ends of the rock shaft, pinions on the lower ends of said shaft meshing with the pinions on the rock shaft, and handles at the upper ends of the vertical shafts, extending therefrom over the roadway and normally directed away from the gate at a right angle to each other, said handles moving simultaneously in opposite directions when the gate is tilted.

1,386,114. INTERNAL-COMBUSTION ENGINE. EDMUND JEDRZYKOWSKI, Chicago, Ill. Filed Oct. 24, 1919. Serial No. 332,909. 20 Claims. (Cl. 123—78.)



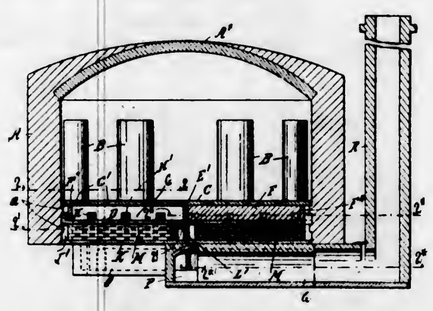
1. In combination with an internal combustion engine comprising a cylinder, piston and crank shaft, devices connecting said piston and crank shaft in driving relation, comprising means operated by the momentum of the piston at the end of a stroke thereof, to change the effective length of said driving connection, and instrumentalities associated with the connecting devices effective, after a change in the length of the driving connection, to maintain the then existing length of the driving connection throughout the several strokes of succeeding engine cycles.

1,386,115. ROLLING-MILL APPARATUS FOR MAKING HOLLOW BARS. WESTON JENKINS, Rome, N. Y., assignor to Rome Iron Mills, Inc., a Corporation of New York. Filed Jan. 3, 1920. Serial No. 349,297. 11 Claims. (Cl. 80—11.)



1. A three-high rolling mill for making hollow bars comprising in combination a table, means for raising and lowering the table, a mandrel, and means for retracting and advancing the mandrel upon movement of the table up or down, said means being under the control of the table actuating means.

1,386,116. KILN. HARFORD P. JENKS, Vigo, Ohio. Filed July 8, 1916. Serial No. 108,132. 11 Claims. (Cl. 25—145.)



1. A kiln provided with a perforated floor, a checker-work heat-reservoir located below said floor and adapted to receive the hot gases passing through the perforations of the floor, a down-take located at the edge portion of the reservoir and forming an outlet therefor, and a flue connected with the lower portion of the down-take and having an imperforate upper wall extending along the lower portion of the heat-reservoir, and in contact, throughout its length, with the bottom wall of said reservoir.

1,386,117. METHOD OF ABSORBING HALOGENS. COULTER W. JONES, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed July 23, 1918. Serial No. 246,312. 2 Claims. (Cl. 23—10.)

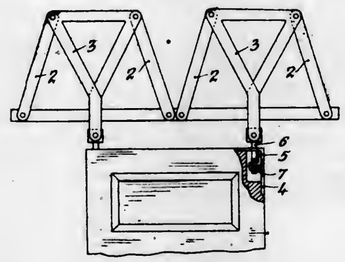
1. The method of recovering bromin from an admixture of chlorin, which consists in treating the same with sufficient alkali to absorb such chlorin and one molecule of bromin to five of chlorin, thereby converting such chlorin into chlorid and forming a proportionate amount of bromate, separating such bromate from such chlorid, and subsequently absorbing the residual bromin purified as aforesaid by elimination of the chlorin.

1,386,118. MANUFACTURE OF CHLORHYDRIN. WILLIAM E. KIRST, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Dec. 9, 1918. Serial No. 265,859. 3 Claims. (Cl. 23—24.)

1. The method of removing water from a solution of the same and glycol chlorhydrin, which consists in adding benzol; and then raising the resulting solution-mixture to a temperature at which the combined vapor tensions of the benzol and water are equal to or greater than atmospheric or other superimposed pressure, thereby simultaneously evaporating the water and benzol and leaving the chlorhydrin behind.

3. The method of removing water from a solution of the same and glycol halogen-hydrin, which consists in adding benzol and then raising the resulting solution-mixture to a temperature at which the combined vapor tensions of the benzol and water are equal to or greater than atmospheric or other superimposed pressure, thereby simultaneously evaporating the water and benzol and leaving the halogen-hydrin behind.

1,386,119. MECHANISM FOR SLIDING DOORS, DRAWERS, AND THE LIKE. HANS EDVARD KJÖLSETH, Porsgrund, Norway. Filed May 28, 1920. Serial No. 384,926. 3 Claims. (Cl. 16—156.)

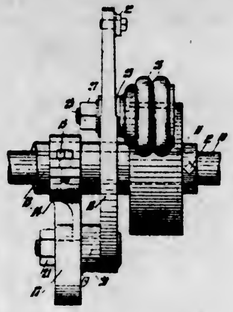


2. In a suspension link mechanism for the substantially rectilinear displacement of sliding doors, drawers and other objects having to perform to and fro movements, the combination of two links, hinged at their lower ends to stationary points and a third intermediate link lever having three hinge points arranged in a triangle, the two upper of such hinge points being hinged to the free upper ends of said links, and the third of said hinge points serving as a suspension joint for the object to be suspended and guided along a substantially rectilinear path with a slight lowering of said path at its end positions.

1,386,120. BRAKING DEVICE. GEORGE W. KUENNETH, Paterson, N. J., assignor to Jeanneta Kuenneth, Paterson, N. J. Filed Oct. 6, 1916. Serial No. 124,081. 4 Claims. (Cl. 188—74.)

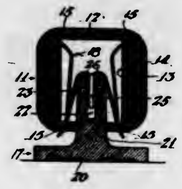
1. A device of the class described, comprising a stationary tubular shaft housing, a shaft extending through said housing axially but out of contact therewith, a member held to rotate with the shaft and carried thereby exte-

riorly of said housing, a hanger carried by said housing, a lever fulcrumed on said hanger, and a friction member



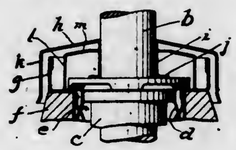
carried by said lever and adapted for engagement with said rotary member.

1,386,121. CROCHET-BALL HOLDER. WERNER LEHMANN, Los Angeles, Calif. Filed July 12, 1920. Serial No. 395,516. 7 Claims. (Cl. 242—134.)



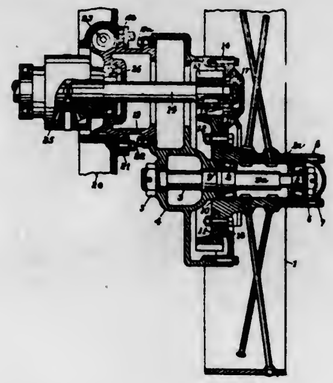
5. A crochet ball holder comprising a stationary standard having a central bore, and a frame rotatably mounted on said standard, said frame consisting of a post extending into the bore in the standard and wires extending outwardly from said post rotatably engaging the top of the standard and downwardly forming elastic legs engaging the lower edge of the inside of said ball, the upper ends of said wires extending outwardly to engage the upper portion of the inside of said ball.

1,386,122. MEANS FOR EXCLUDING DIRT AND LIQUID FROM BEARINGS AND DRIVING MECHANISM OF CENTRIFUGAL MACHINES. MEREDITH LEITCH, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 7, 1920. Serial No. 356,988. 7 Claims. (Cl. 64—22.)



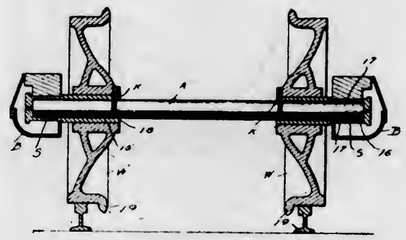
7. A removable protector for the floating spindle bearing of a centrifugal machine comprising a thin shell arranged to be seated in the bearing support and having outwardly and upwardly extending flange portions, a cap having spindle engaging portions and a downwardly extending petticoat arranged to surround the upwardly extending flange of shell, and an oil spray catcher adapted to be mounted within the shell and cap and having an inwardly extending flange at its upper end.

1,386,123. SUPPORT AND DRIVING MECHANISM FOR ADJUSTABLE DRIVE-WHEELS OF TRACTORS. OTTO LEROY LEWIS, Houston, Tex. Filed July 28, 1920. Serial No. 399,600. 4 Claims. (Cl. 180—41.)



1. An apparatus of the character described, including a drive shaft, a stationary support having a bearing opening around the drive shaft, a connecting cylinder through which the drive shaft extends, having its inner end disposed in the bearing opening of the support and rotatably confined in connection with the support, a wheel shaft supporting frame secured to the outer end of the cylinder and having a bearing for the outer end of the drive shaft, a wheel shaft mounted in said supporting frame in offset parallel relation to the drive shaft, a wheel mounted on said wheel shaft, a gearing within the said supporting frame for driving the wheel from said drive shaft.

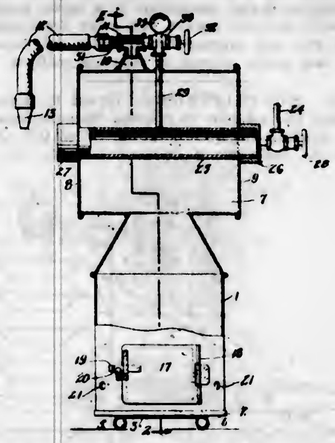
1,386,124. RAILWAY-CAR WHEELS AND AXLE. THOMAS LITTLEFIELD, Exira, Iowa. Filed Mar. 2, 1921. Serial No. 449,017. 2 Claims. (Cl. 295—35.)



1. In combination, an axle, bearing sleeves rotatably mounted on the opposite ends of the axle, each of the sleeves including a thickened portion and a relatively thin portion having ducts formed therein, wheels mounted on the thickened portions, and means extending through the hubs of said wheels and said thickened portions and engaging said axle for detachably securing the sleeves and wheels to the axle and for fixing the wheels to the sleeves.

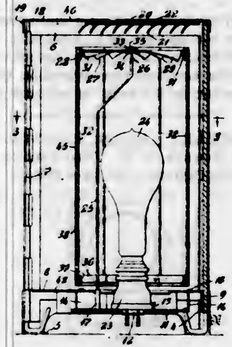
1,386,125. FUMIGATOR. HENRY LOEB, New York, N. Y. Filed Sept. 16, 1918. Serial No. 254,193. 3 Claims. (Cl. 43—128.)

1. The combination of means providing a fume producing chamber, a reservoir arranged outside of said chamber and connected to receive fumes therefrom, a second reservoir arranged within said first reservoir and adapted to contain fluid under pressure, and means for discharging



fumes from said first reservoir under the force of fluid from said second reservoir, said reservoirs insuring a substantially steady flow of the fluid and fumes.

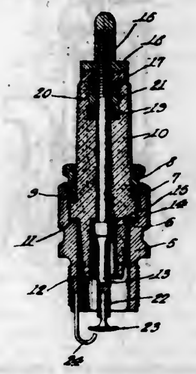
1,386,126. ADVERTISING DISPLAY DEVICE. GORHAM M. LYNES, Brooklyn, N. Y. Filed June 3, 1920. Serial No. 386,180. 3 Claims. (Cl. 40—132.)



1. A display device, comprising, a casing, a light source and a rotating element located in the casing when erected and revolved by hot air currents heated by the source, for producing changing waves of light on the display fields, the top of the casing consisting of a removable cover provided with overlapping ventilator blind openings and an overlapping false bottom below the main bottom, the overlapping members of the top and bottom being adapted to permit sufficient passage of air between them to give the rotating element the proper speed, without egress of light rays from the source to normal vision.

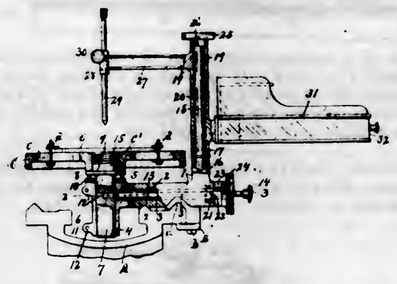
1,386,127. SPARK-PLUG. WILLIAM W. MCELRATH, JR., East Radford, Va. Filed Aug. 25, 1919. Serial No. 319,547. Renewed June 8, 1921. Serial No. 476,109. 1 Claim. (Cl. 123—169.)

A spark plug including a tubular body, a core received therein and provided with a longitudinal bore which is enlarged at its upper and lower ends, a stationary electrode extending laterally from the tubular member, a longitudinally movable electrode received in the bore and adapted to be moved into engagement with the stationary electrode and rotated thereagainst to clean deposits from the contacting faces of both electrodes, an annular shoulder formed on the longitudinally movable electrodes and received in the lower end of the bore, a packing washer positioned on the longitudinally movable electrode and positioned on the upper face of the shoulder, a compressible packing element arranged in the upper end of



the bore and positioned around the longitudinally movable electrode, a packing gland received upon the upper end of the latter, and a jam nut threaded upon the upper end of said electrode to rotate thereon to engage the packing gland to force the compressible element against said electrode and to move the same upwardly to space the electrodes and to move the washer into engagement with the adjacent wall of the bore.

1,386,128. WORK CENTERING AND BALANCING DEVICE FOR THE FACE-PLATES OF LATHES. HERMAN R. MACCORDY, Fulton, N. Y. Filed May 19, 1920. Serial No. 382,536. 10 Claims. (Cl. 73—51.)

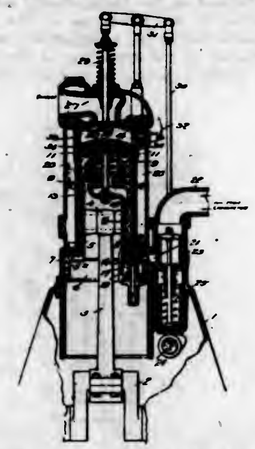


1. In a work centering and balancing device for lathes and analogous machines, the combination of a mandrel rotatable about a vertical axis and provided with means for supporting the face plate of a lathe coaxial therewith, a support for said mandrel, means for determining the position of the part of the work to be turned relatively to the axis of the mandrel and enabling said work to be adjusted to properly center the same relatively to said axis, and means for clamping the centered work to the face plate so that the face plate with the work centered thereon may be removad from the mandrel and placed upon the mandrel of the lathe.

1,386,129. INTERNAL-COMBUSTION ENGINE. EDWARD LEIGH MALSBARY, Reno, Nev. Filed June 14, 1917. Serial No. 174,705. 17 Claims. (Cl. 123—71.)

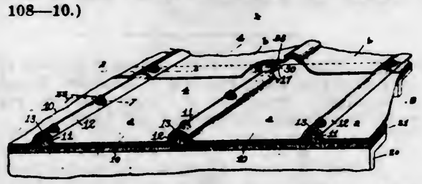
15. An internal combustion engine, comprising in combination a cylinder terminating in a combustion chamber, the combustion chamber end of said cylinder being counter-

bored; a power piston arranged to reciprocate in said cylinder, a sub-piston located between said power piston



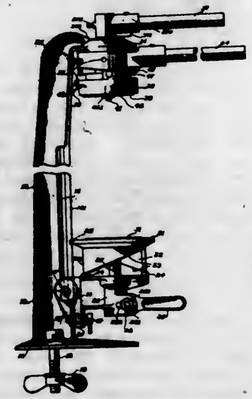
and said combustion chamber, and mechanical means for controlling said sub-piston.

1,386,130. BUILDING CONSTRUCTION. HERBERT E. MARKS, Sewickley, and WILLIAM R. FRAZIER, Pittsburgh, Pa., assignors to Asbestos Protected Metal Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 5, 1918. Serial No. 210,437. 10 Claims. (Cl. 108—10.)



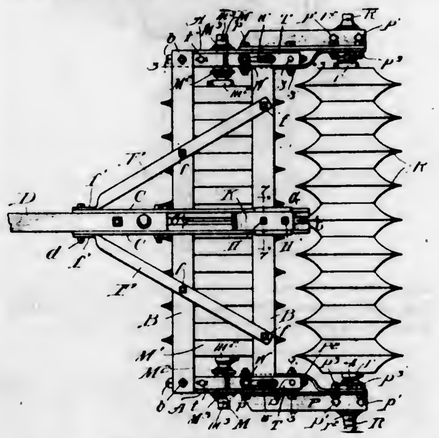
4. In a building construction, in combination, adjacent members provided with overlapping side lips, and a preformed sealing member of substantially plastic bituminous material between the said overlapping lips capable of being molded to the shape of said lips.

1,386,131. BOTTLE-CAPPING DEVICE. ARNOLD CRAWFORD MASSIE, New York, N. Y. Filed June 10, 1920. Serial No. 388,027. 7 Claims. (Cl. 226—84.)



3. In a bottle capping apparatus, the combination, with a compression foot, a capping-throat device, and means angularly movable to impart positive predetermined thrust movement to said compression foot and capping-throat device separately, of a bottle support independently movable toward and away from said compression foot and capping-throat device, and means for holding said bottle support in adjusted position.

1,386,132. SOIL-PULVERIZER. HENRY F. RODEMEYER, Sterling, Ill., assignor to Sterling Manufacturing Company, Sterling, Ill., a Corporation. Filed Dec. 18, 1919. Serial No. 345,756. 2 Claims. (Cl. 55—21.)



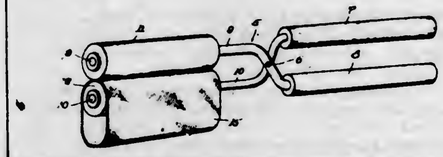
1. A soil pulverizer comprising a main frame, front and rear pulverizer rollers, pivoted, vertically movable bars carrying at their rear ends the journals of the rear roller, springs for exerting pressure upon the rear roller, and means adjacent to the seat for adjusting said springs.

1,386,133. JEWELRY. JOSEPH P. ROWLEY and JOHN W. SCHOELLNER, Newark, N. J. Filed July 24, 1919. Serial No. 313,016. 2 Claims. (Cl. 24—102.)



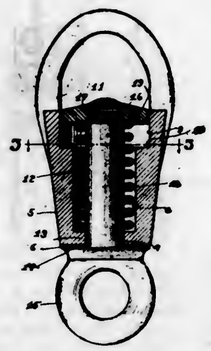
2. An article of the kind described, generally S-shaped in plan, having an unbroken endless outer wall, and an inner wall portion defined by uniting inturned edge portions of the outer wall, the visible surfaces of both the outer and inner wall portions being of plated precious metal and the invisible surfaces being of base metal, upon which the precious metal is plated.

1,386,134. METHOD OF AND MEANS FOR TREATING THE HAIR. HUBERT HERMAN SEYL, Chicago, Ill. Filed May 28, 1921. Serial No. 473,281. 3 Claims. (Cl. 132—31.)



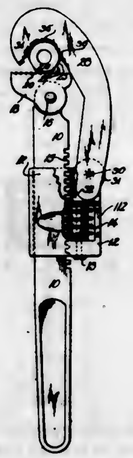
3. A device for treating hair comprising a pair of tongs having rollers on the respective prongs of the tongs and a liquid-absorbing girdle overlying one of the rollers.

1,386,135. SWIVEL-CONNECTOR. PATRICK H. SHAFFER, Richwood, W. Va. Original application filed Apr. 14, 1920. Serial No. 373,872. Divided and this application filed Nov. 13, 1920. Serial No. 423,971. 1 Claim. (Cl. 59—95.)



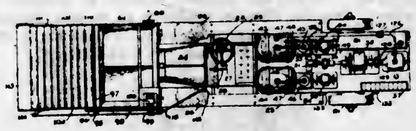
A swivel connector of the character described comprising a casing open at one end, an opening formed in the opposite end of the casing, an annular shoulder formed within said casing adjacent the open end, a loop carried by said open end, a shank slidably and rotatably mounted in said casing and extending through the opening in the end thereof, one end of said shank having a collar, a connecting loop, said collar being adapted to engage the lower surface of said end of the casing, the opposite end of the shank being reduced, a plate carried by said reduced end, said plate being movable within the open end of the casing, and a spring surrounding the shank within the casing, one end of said spring engaging the end of the casing, the opposite end of the spring engaging said plate, said plate limiting longitudinal movement of the casing and shank away from each other, the collar of the shank limiting movement of the casing and shank toward each other.

1,386,136. CANT-SLIP WRENCH. GEORGE SIBBALD, Denver, Colo. Filed Oct. 4, 1920. Serial No. 414,527. 3 Claims. (Cl. 81—107.)



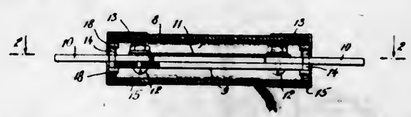
1. A wrench comprising a handle, a gripping jaw (18) pivotally connected to one end thereof, said jaw having a projecting portion (25) extending beyond the gripping face (20) at one side thereof, a member (12) adjustably movable along said handle, a cant hoook shaped gripping jaw (28) pivotally connected to said movable member, and having its gripping portion extending beyond said first named gripping jaw, and on the side of the latter which carries the projecting portion, whereby said projecting portion engages said second named jaw and prevents crushing action.

1,386,137. SNOW-REMOVAL APPARATUS. CHARLES SQUIRE, Deans, N. J. Filed June 4, 1920. Serial No. 386,559. 4 Claims. (Cl. 37—60.)



1. The combination with a wheeled truck and its motor; of an elevator at the front of the truck arranged to continuously elevate snow and the like as the truck moves forward, a melting tank on the truck having a bottom down which snow may pass, said bottom sloping downwardly in opposite directions from an intermediate point and in a direction transverse to said first named directions; said tank also having outlets at the foot of the slopes of the bottom, and means to heat said bottom whereby to melt the snow as it passes over said bottom.

1,386,138. ELECTRIC FUSE. ARCHIE W. STEELE, Bloomfield, N. J., assignor to Wilford J. Hawkins, Montclair, N. J. Filed July 5, 1919. Serial No. 308,842. 2 Claims. (Cl. 200—132.)



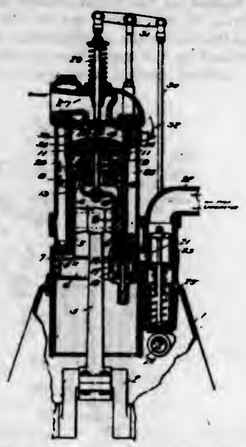
1. An electric fuse comprising a tube of insulating material having slots in its ends, a unit consisting of a fusible link and a strip of insulating material extending parallel to each other, and two fuse-terminals secured to the ends of the link and strip, said unit being mounted within the tube with the terminals projecting beyond the ends thereof, plates lying in said slots and arranged to receive the terminals, said plates having inclined walls coöperating with the walls of said slots, end caps on the ends of the tube and screws passing through the ends of the end caps and engaging threaded openings in the plates.

1,386,139. SELF-STARTER. FAIRBANK BARNES STOCKDALE, Brooklyn, N. Y., and HOBART ARTHUR SIMPSON, Ocean Grove, N. J. Filed Aug. 20, 1918. Serial No. 250,721. 34 Claims. (Cl. 185—41.)



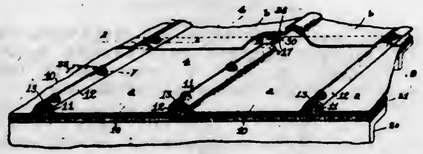
32. In a spring starting device for an internal combustion motor, the combination with a power spring for de-

bored; a power piston arranged to reciprocate in said cylinder, a sub-piston located between said power piston



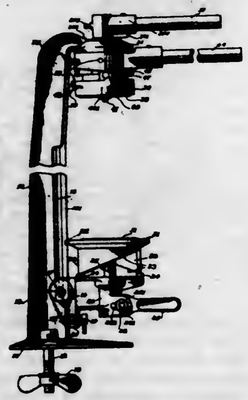
and said combustion chamber, and mechanical means for controlling said sub-piston.

1,386,130. BUILDING CONSTRUCTION. HERBERT E. MARKS, Sewickley, and WILLIAM R. FRAZIER, Pittsburgh, Pa., assignors to Asbestos Protected Metal Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 5, 1918. Serial No. 210,437. 10 Claims. (Cl. 108—10.)



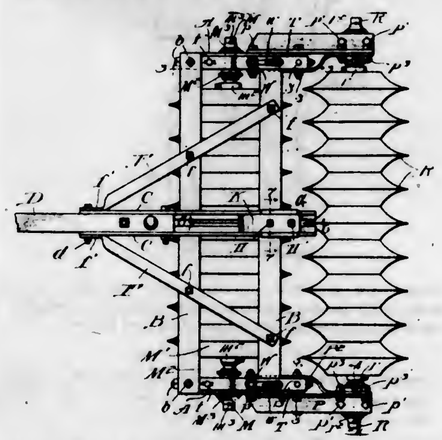
4. In a building construction, in combination, adjacent members provided with overlapping side lips, and a preformed sealing member of substantially plastic bituminous material between the said overlapping lips capable of being molded to the shape of said lips.

1,386,131. BOTTLE-CAPPING DEVICE. ARNOLD CRAWFORD MASSIE, New York, N. Y. Filed June 10, 1920. Serial No. 388,027. 7 Claims. (Cl. 226—84.)



3. In a bottle capping apparatus, the combination, with a compression foot, a capping-throat device, and means angularly movable to impart positive predetermined thrust movement to said compression foot and capping-throat device separately, of a bottle support independently movable toward and away from said compression foot and capping-throat device, and means for holding said bottle support in adjusted position.

1,386,132. SOIL-PULVERIZER. HENRY F. RODEMEYER, Sterling, Ill., assignor to Sterling Manufacturing Company, Sterling, Ill., a Corporation. Filed Dec. 18, 1919. Serial No. 345,756. 2 Claims. (Cl. 55—21.)



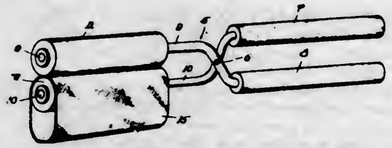
1. A soil pulverizer comprising a main frame, front and rear pulverizer rollers, pivoted, vertically movable bars carrying at their rear ends the journals of the rear roller, springs for exerting pressure upon the rear roller, and means adjacent to the seat for adjusting said springs.

1,386,133. JEWELRY. JOSEPH P. ROWLEY and JOHN W. SCHOELLNER, Newark, N. J. Filed July 24, 1919. Serial No. 313,016. 2 Claims. (Cl. 24—102.)



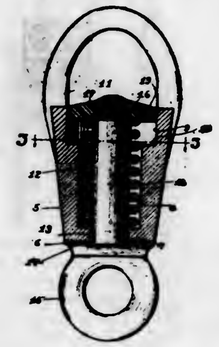
2. An article of the kind described, generally S-shaped in plan, having an unbroken endless outer wall, and an inner wall portion defined by uniting inturned edge portions of the outer wall, the visible surfaces of both the outer and inner wall portions being of plated precious metal and the invisible surfaces being of base metal, upon which the precious metal is plated.

1,386,134. METHOD OF AND MEANS FOR TREATING THE HAIR. HUBERT HERMAN SEYL, Chicago, Ill. Filed May 28, 1921. Serial No. 473,281. 3 Claims. (Cl. 132—31.)



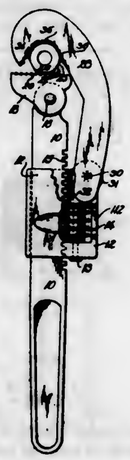
3. A device for treating hair comprising a pair of tongs having rollers on the respective prongs of the tongs and a liquid-absorbing girdle overlying one of the rollers.

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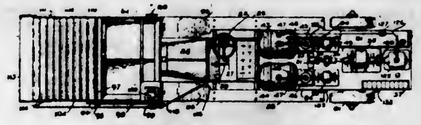
A swivel connector of the character described comprising a casing open at one end, an opening formed in the opposite end of the casing, an annular shoulder formed within said casing adjacent the open end, a loop carried by said open end, a shank slidably and rotatably mounted in said casing and extending through the opening in the end thereof, one end of said shank having a collar, a connecting loop, said collar being adapted to engage the lower surface of said end of the casing, the opposite end of the shank being reduced, a plate carried by said reduced end, said plate being movable within the open end of the casing, and a spring surrounding the shank within the casing, one end of said spring engaging the end of the casing, the opposite end of the spring engaging said plate, said plate limiting longitudinal movement of the casing and shank away from each other, the collar of the shank limiting movement of the casing and shank toward each other.

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1. A wrench comprising a handle, a gripping jaw (18) pivotally connected to one end thereof, said jaw having a projecting portion (25) extending beyond the gripping face (20) at one side thereof, a member (12) adjustably movable along said handle, a cant hoook shaped gripping jaw (28) pivotally connected to said movable member, and having its gripping portion extending beyond said first named gripping jaw, and on the side of the latter which carries the projecting portion, whereby said projecting portion engages said second named jaw and prevents crushing action.

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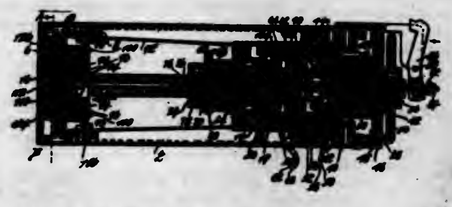
1. The combination with a wheeled truck and its motor; of an elevator at the front of the truck arranged to continuously elevate snow and the like as the truck moves forward, a melting tank on the truck having a bottom down which snow may pass, said bottom sloping downwardly in opposite directions from an intermediate point and in a direction transverse to said first named directions; said tank also having outlets at the foot of the slopes of the bottom, and means to heat said bottom whereby to melt the snow as it passes over said bottom.

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1. An electric fuse comprising a tube of insulating material having slots in its ends, a unit consisting of a fusible link and a strip of insulating material extending parallel to each other, and two fuse-terminals secured to the ends of the link and strip, said unit being mounted within the tube with the terminals projecting beyond the ends thereof, plates lying in said slots and arranged to receive the terminals, said plates having inclined walls coöperating with the walls of said slots, end caps on the ends of the tube and screws passing through the ends of the end caps and engaging threaded openings in the plates.

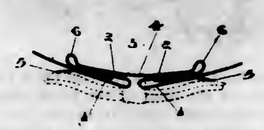
1,386,139. SELF-STARTER. FAIRBANK BARNES STOCKDALE, Brooklyn, N. Y., and HOBART ARTHUR SIMPSON, Ocean Grove, N. J. Filed Aug. 20, 1918. Serial No. 250,721. 34 Claims. (Cl. 185—41.)



32. In a spring starting device for an internal combustion motor, the combination with a power spring for de-

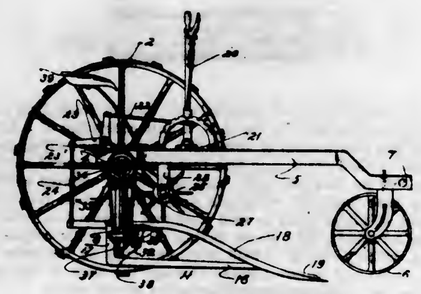
livering power to the motor, clutching means for connecting one end of said spring to the motor to start the same, manual means for moving said clutching means to operative position, a second clutching means to connect said motor to the other end of said spring to rewind the same, spring actuated means controlled from said power spring as the same is unwound for acting on said rewinding clutching means, and means operated by said manual means for positively acting on said rewinding clutching means to hold the same in unclutched position against the action of said spring actuated means.

1,386,140. NECKTIE-FORM. HARVEY E. STONGE, Toronto, Ontario, Canada, assignor to Gerald Decourcy O'Grady, Toronto, Ontario, Canada. Filed June 2, 1921. Serial No. 474,557. 4 Claims. (Cl. 24—81.)



1. A tie form formed of an integral piece of spring metal bent back upon itself at each end to a point adjacent the center, and then back upon itself in the opposite direction to form jaws adapted to grip the ends of a collar; said form having a slight bend at its center, the bent back portions lying upon its convex side.

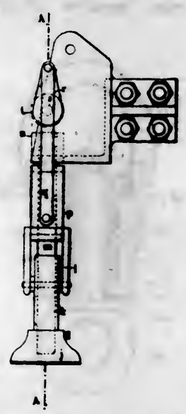
1,386,141. WEEDING IMPLEMENT. STEVEN TAUSCH, Spokane, Wash. Filed Nov. 15, 1920. Serial No. 424,086. 5 Claims. (Cl. 55—85.)



1. The combination in an implement as described including the traction wheels, and main frame, of drop frames and a supporting bar therein, a rock sleeve on said bar, a plurality of weeding teeth attached to said sleeve, said teeth each comprising a lower approximately horizontal cutting blade and a curved tine, and said blade and tine converging and terminating in a digging point, and means for rocking said sleeve for the purpose described.

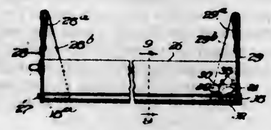
1,386,142. STAMPING APPARATUS. PHILIPPE HENRI LOUIS TRANTY and JAMES THEODORE FELIX CONTI, Paris, France. Filed June 21, 1919. Serial No. 305,230. 3 Claims. (Cl. 101—320.)

1. A stamping and registering machine comprising a movable stamping device, a control spring connected with the stamping device, means for operating the stamping device and spring so that the stamping device is moved quickly backward and forward so that it cannot stop either during the said movements or in the stamping position, means for counting and registering the number of



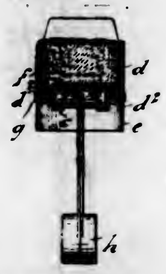
operations of the spring and stamp, and means for stopping the machine after the completion of a predetermined number of operations.

1,386,143. TRANSFER-FILE. CHARLES B. ULRICH, Jamestown, N. Y. Filed Nov. 20, 1916. Serial No. 132,258. 8 Claims. (Cl. 45—7.)



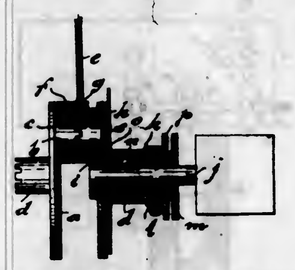
1. A drawer for a transfer cabinet comprising sheet metal sides, bottom and ends, the bottom having channels formed therein longitudinally thereof along its edges, and rollers mounted in said channels at the rear end thereof and projecting below the bottom of said channels, each roller having a supporting housing in one of said channels supporting said drawer by engagement with the side wall of the drawer and the inner wall of said channel.

1,386,144. ENGINE-PISTON AND CONNECTING-ROD. ARTHUR WILLIAM WALL, Sheldon, near Birmingham, England. Filed Dec. 27, 1918. Serial No. 268,544. 2 Claims. (Cl. 74—108.)



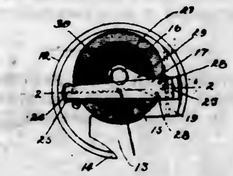
1. A piston, comprising a pair of cup members obtained by stamping, pressing or the like and secured base to base, the bases of said cup members being provided with bearing formations to arrange the axis of pivotal connection between the piston and the connecting rod in the plane in which the cup bases meet.

1,386,145. MAGNETO-DRIVING ARRANGEMENT FOR INTERNAL-COMBUSTION ENGINES. ARTHUR WILLIAM WALL, Sheldon, near Birmingham, England. Filed Dec. 27, 1918. Serial No. 268,547. 1 Claim. (Cl. 74—34.)



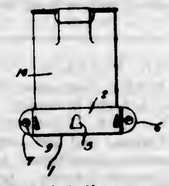
A magneto driving mechanism for internal combustion engines, including in combination with the rotating part of the magneto a crank shaft, a connecting rod secured to said crank shaft, a pinion secured to said connecting rod, and a second pinion on said rotating part coaxial with said crank shaft and meshing with said first named pinion.

1,386,146. SEWING-MACHINE SHUTTLE. LUCIUS E. WEAVER, East Hampton, Conn., assignor to Summit Thread Company, East Hampton, Conn., a Corporation of Maine. Filed July 8, 1919. Serial No. 309,412. 1 Claim. (Cl. 112—233.)



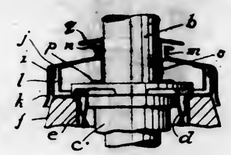
A shuttle having a bobbin chamber, a stud in said chamber on which a universally wound bobbin is rotatable, the chamber being provided with an internal face surrounding the stud and supporting an end of the bobbin, a bobbin-confining arm hinged to the shuttle and extending across the chamber when in operative position; and a resilient finger attached at one end to said arm, and formed at its opposite end to bear yieldingly on the central portion of the outer end of the bobbin when the arm is in its operative position, and prevent displacement of the inner convolutions of thread when the bobbin is partially spent, said finger being provided with an opening which receives the outer end of the stud when the finger is in its operative position, whereby the finger is enabled to spring inwardly toward said internal face as the length of the bobbin decreases.

1,386,147. WASHBOILER-PROTECTOR. MAX WENSAUER, Sheboygan, Wis., assignor of one-half to August L. Maas, Sheboygan, Wis. Filed Apr. 2, 1920. Serial No. 370,795. 2 Claims. (Cl. 68—30.)



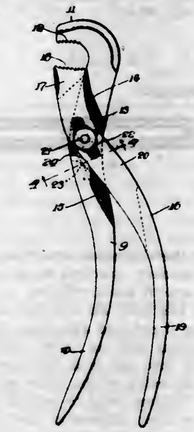
1. A support for wash boilers comprising a loop-shaped member in the form of a strip, of sufficient stiffness to support a boiler, the strip being provided with inwardly projecting brackets and having relatively movable ends, and a tightening device connecting said ends, the brackets being located intermediate the upper and lower edges of the strip, thereby to support a boiler out of contact with the heater.

1,386,148. MEANS FOR EXCLUDING DIRT AND LIQUID FROM BEARINGS AND DRIVING MECHANISM OF CENTRIFUGAL MACHINES. BERT R. WRIGHT, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 7, 1920. Serial No. 357,104. 15 Claims. (Cl. 64—22.)



15. In a centrifugal machine, the combination with a spindle, a surrounding bearing support, an intermediate bearing a part overlying the bearing support, and a spring element between the bearing and the surrounding bearing support, of a sleeve surrounding the spindle having at its lower end a flange overlying the bearing and at its upper end a flange operating to catch dust and deflect water, and a second dust guard and water deflector extending under and substantially beyond the last named flange and spaced from said sleeve.

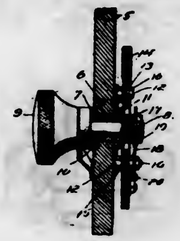
1,386,149. WRENCH. ALLEN C. ALLAN, Chicago, Ill. Filed Apr. 26, 1920. Serial No. 376,568. 3 Claims. (Cl. 81—83.)



1. In a wrench of the character described, the combination of a first handle-member having a transverse groove between its ends and bent laterally at one end to provide a first jaw, a second handle-member crossing said first handle-member, occupying said groove, and having a second jaw at one end adapted to coöperate with said first jaw, and a pin and slot connection between the overlapped parts of said members, the second jaw bearing on an edge of said first handle-member and an edge of the second handle-member simultaneously bearing on the end wall of the

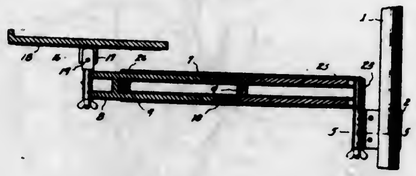
groove remote from the jaws and adjacent to that edge of the first handle-member on which the second jaw bears for all positions of the jaws within the capacity of the tool and with the active jaw faces substantially parallel.

1,386,150. RHEOSTAT. DEREK S. BREITENBACH, Washington, D. C. Filed Jan. 21, 1920. Serial No. 353,081. 3 Claims. (Cl. 219—48.)



1. In a rheostat, an externally threaded supporting sleeve, a stem journaled in said sleeve, a nut threaded thereon, a supporting plate clamped between said nut and a support, opposed extensions formed on said supporting plate, laterally projecting threaded stems on said extensions, an insulated disk supported by said stems, spacing elements between said supporting plate and disk, a contact arm and a retaining nut positioned over the terminal of said stem, said disk having a circular, staggered series of apertures receiving the convolutions of a conductor, binding posts carried by said disk and a knob for turning said stem and contact arm on said disk and over the conductor.

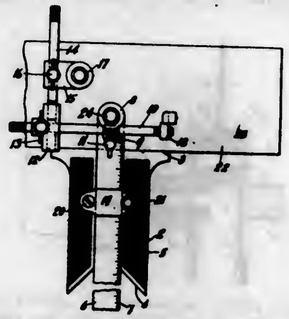
1,386,151. INVALID-BED TABLE. EDWARD C. BREWER, Seattle, Wash. Filed June 22, 1920. Serial No. 390,695. 1 Claim. (Cl. 45—82.)



In a device of the character described, in combination with a bedstead member, brackets fixed to the said member in vertically spaced apart relation, and a rod extending between said brackets, an arm pivotally mounted at its inner end on said rod and adjustable thereon, comprising an inner section and an outer section adapted to move telescopically into and from the inner section, means for limiting the extension of the outer section, said outer section having a vertical joint to permit lateral swinging of its outer end, a table adjustably mounted on the outer end of said arm, means for retaining the table at an adjusted position and a flange along one edge of the table, for the purpose set forth.

1,386,152. PRICK-PUNCHING TOOL. WILLIAM M. BAIGHAM, Newark, N. J. Filed Jan. 12, 1921. Serial No. 436,684. 2 Claims. (Cl. 33—189.)

1. An implement of the class described comprising a base, a graduated slide connected with the base for adjustment, means for holding the slide in an adjusted position, an indexing rod slidable transversely of the slide, the slide having an opening and the indexing rod having an index member which coöperates with the opening, and a second

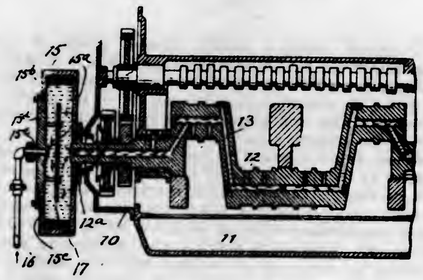


rod slidably connected with the first rod for movement transversely thereof and provided with a part having an opening to receive a prick-punching tool.

1,386,153. PROCESS FOR THE VULCANIZATION OF RUBBER. GIUSEPPE BAUNI, Milan, Italy, assignor to Pirelli & Co., Milan, Italy, a Company of Italy. Filed Mar. 9, 1920. Serial No. 364,478. 5 Claims. (Cl. 18—53.)

1. The process of vulcanizing rubber, consisting in treating it with sulfur and a metallic salt of a dithiocarbamic acid, and heating it to a temperature lower than 100° C.

1,386,154. ENGINE-LUBRICATING SYSTEM. ALANSON P. BRUSH, Detroit, Mich. Filed Aug. 17, 1918. Serial No. 250,375. 10 Claims. (Cl. 184—6.)

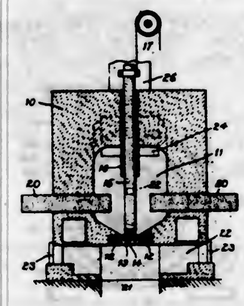


1. In an engine, the combination of the crank shaft thereof, a lubricating system for supplying lubricant to the bearing surfaces of the shaft, a centrifugal separator adapted to separate foreign particles from the lubricant and including means for causing the lubricant to flow outward toward the periphery of the separator in its passage through the separator, and means whereby the centrifugal separator receives rotary motion from the crank shaft.

1,386,155. ELECTRIC FURNACE. WALTER S. BUSCH and WILLIAM A. SCHELL, Rochester, N. Y., assignors to Rochester Railway & Light Company, Rochester, N. Y., a Corporation of New York. Filed July 31, 1919. Serial No. 314,409. 10 Claims. (Cl. 204—64.)

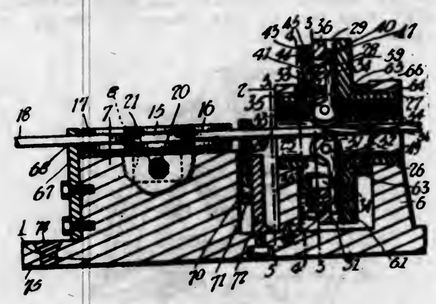
4. An electric furnace comprising: a refractory body provided with a reaction-chamber; primary electrodes in said chamber; a source of current for the primary electrodes; refining electrodes located below the primary

electrodes and acting upon the material after its descent from the sphere of action of the primary electrodes, one of



the refining electrodes being adjustable toward and from the other; and an independent source of current for the refining electrodes.

1,386,156. WIRE-GROOVING MACHINE. PERCY FREDERICK BUTTERFIELD, Toronto, Ontario, Canada. Filed Jan. 19, 1920. Serial No. 352,398. 13 Claims. (Cl. 80—10.)



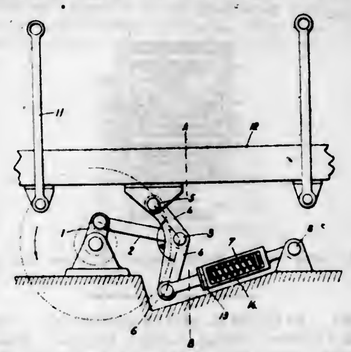
4. A wire grooving machine, comprising a carrier sleeve mounted to freely revolve in suitable bearings and through which a wire is adapted to pass, cutting disks located on opposite sides of the wire and set at such an angle to the longitudinal center of the wire so that the longitudinal draw of the wire upon the cutting disks rotates the sleeve whereby the cutting disks follow a spiral path around the wire.

1,386,157. EMBALMING FLUID. GIUSEPPE CALLODI, Chicago, Ill. Filed Jan. 25, 1919. Serial No. 273,195. 1 Claim. (Cl. 27—22.)

An embalming fluid of the class described, comprising a mixture of turpentine, sodium chlorid and sulfate of calcium in approximately the proportions of forty grams of sodium chlorid and forty grams of sulfate of calcium per gallon of turpentine.

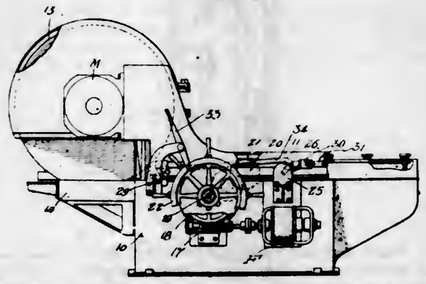
1,386,158. CONVEYER. CHARLES CANDLOT, Paris, France. Filed June 1, 1920. Serial No. 385,734. 3 Claims. (Cl. 74—14.)

1. An operating mechanism for shaking screens and the like, the combination with a connecting rod having at one end a crank connection with a continuously rotating driving means, of a floating bell-crank lever pivotally secured at its intermediate portion to the other end of said connecting rod, a pivotal connection between one end of said



bell crank lever and screen and a resilient coupling for supporting the other end of said bell crank lever.

1,386,159. CONTROLLING SYSTEM FOR FEED-MOTORS. G HARRY CASE, Philadelphia, Pa., assignor to Joseph T. Ryerson & Son, Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 7, 1914, Serial No. 865,566. Divided and this application filed November 6, 1916. Serial No. 129,768. 5 Claims. (Cl. 172—239.)

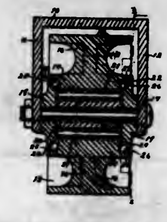


1. In a system for controlling electrical motors for friction cutting machines, a carriage, a friction cutting disk supported thereon, an electric motor for operating said disk, a second electrical motor for feeding the carriage and disk having a drooping speed torque characteristic whereby the resistance to the disk is maintained at a substantially constant value when the disk is driven through loads of varying values.

1,386,160. COMBINATION ROLLER AND BALL-BEARING WHEEL. JOHN LOUCIEN CHESNUTT, Kansas City, Mo., assignor to The Service Caster & Truck Company, Kansas City, Mo., a Corporation of Missouri. Filed May 22, 1919. Serial No. 298,912. 2 Claims. (Cl. 64—17.)

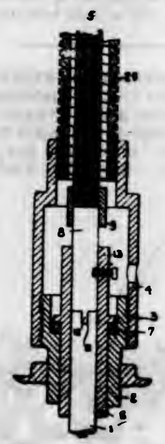
1. A device of the class described, comprising a support having spaced flange members, an axle carried by said flange members, a wheel mounted concentrically on said axle between said flange members, said wheel having a hub formed with a relatively large bore, washers on said axle in contact with the inner faces of said flange members, a sleeve on said axle between said washers, roller bearings between said sleeve and the wheel hub adapted to receive vertical pressure of a load on said support, said rollers being of slightly less length than said sleeve, and securing means on end portions of said axle outside of said flange

members whereby said flange members, washers and sleeve may be drawn together and form a rigid structure, said



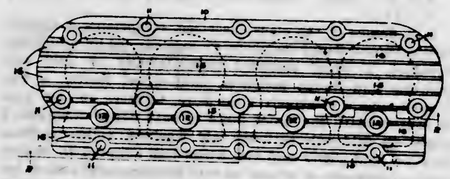
washers being out of direct contact with the hub of said wheel.

1,386,161. FLEXIBLE SHAFT-COUPLING. WILLIAM HUGH CLIFFORD, Ealing, London, England. Filed Nov. 28, 1919. Serial No. 341,184. 2 Claims. (Cl. 64—30.)



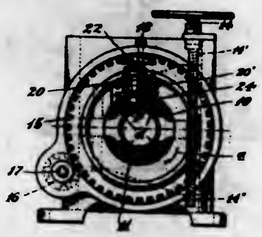
1. Shaft and tool couplings for motor driving machines and flexible shafts comprising a driving machine, a driving shaft, a flexible shaft, a sleeve at the end of said driving shaft adapted to receive the tail piece of a tool or the tail piece of the flexible shaft, an outer sleeve secured to said driving shaft and surrounding said tool sleeve, ball bearings between said outer and inner driving shaft sleeves, a sleeve attached to the end of said flexible shaft corresponding in form and size with the tool or flexible shaft sleeve at the end of the driving shaft, an outer sleeve secured to said flexible shaft and surrounding said tool sleeve and ball bearings between said flexible shaft sleeves.

1,386,162. CYLINDER-HEAD AND METHOD OF MANUFACTURING SAME. RALPH E. COLLINS, Indianapolis, Ind. Filed Apr. 24, 1920. Serial No. 376,230. 2 Claims. (Cl. 123—171.)



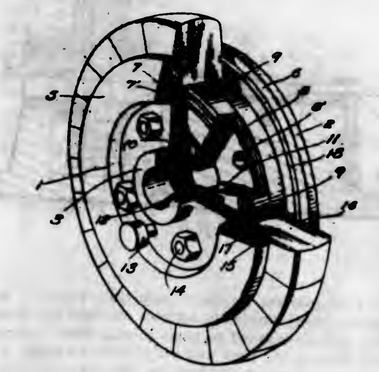
1. As an article of manufacture a cylinder head for internal combustion engines comprising a single unit member having a plurality of thin integrally formed ribs arranged longitudinally of the cylinder head to form air passageways, said ribs being tapered from one end to the other.

1,386,163. CUTTING-OFF MACHINE. LEWIS B. CURTIS, Bridgeport, Conn. Filed Oct. 22, 1919. Serial No. 332,425. 2 Claims. (Cl. 81—190.)



1. A machine of the character described, comprising a vise, a tool-carrier, means for supporting said carrier for rotation and longitudinal movement relative to said vise, a cut-off tool mounted on said carrier, means for feeding-in said tool, and a device for locking said tool-carrier against longitudinal movement and for intermittently operating said feeding-in means during the successive rotations of said carrier.

1,386,164. WHEEL. THOMAS G. DADE, South Fort Smith, Ark. Filed Dec. 12, 1918. Serial No. 266,452. 3 Claims. (Cl. 301—63.)

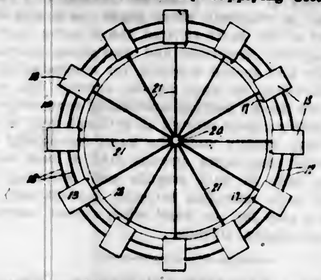


1. A wheel comprising two complementary disks consisting of hub, web and rim portions, the disks being provided with annular ribs on their inner faces, a packing ring between the disks and engaged by the ribs, fastening means for securing the disks in clamping relation with respect to the packing ring, and a tire carried by the rim.

1,386,165. PROCESS AND APPARATUS FOR DEGREASING GARBAGE. FRANK DANKS, Detroit, Mich. Filed Mar. 23, 1918. Serial No. 224,363. Renewed Dec. 8, 1920. Serial No. 429,262. 15 Claims. (Cl. 87—13.)

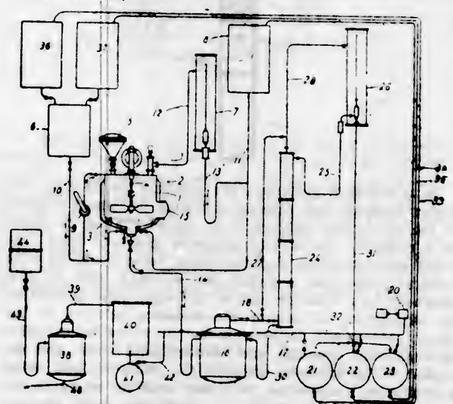
1. In the degreasing of garbage a plurality of containers movable with respect to each other, means for closing said containers, an open overflow outlet for each of said containers, and means for simultaneously supplying steam to said containers at a predetermined temperature comprising a central steam pipe and pipes leading therefrom to said containers.

2. In the degreasing of garbage a circular track, containers adapted for movement thereon and with respect to each other, open overflow outlets for said containers, and means for simultaneously supplying steam to said



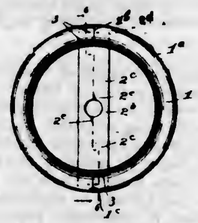
containers comprising a central steam pipe and pipes leading therefrom to said containers near the bottom thereof.

1,386,166. TREATMENT OF COCOA WASTE. EDOUARD DE GROUSSEAU and AUGUSTE VICONGNE, Clichy, France. Filed June 8, 1918. Serial No. 238,881. 6 Claims. (Cl. 23—24.)



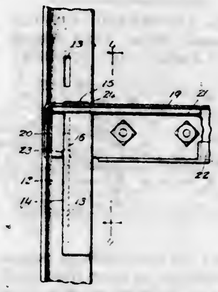
1. The process of recovering theobromin from cocoa waste, which comprises agitating the powdered waste in a solvent of tetrachlorid of ethane and phenol in the presence of an ammoniacal solution, separating the solvent from the solute by fractional distillation in vacuum, subjecting the remaining solute to the action of steam and further vacuum distillation, dissolving the fatty matter of the residue of distillation, dissolving theobromin and tannin from the residue in dilute alkali solution, and precipitating theobromin therefrom by the action of carbonic acid.

1,386,167. METALLIC WHEEL. RAY E. DUNHAM, Berea, Ohio, assignor to Dunham Company, Berea, Ohio, a Corporation of Ohio. Filed Aug. 28, 1920. Serial No. 406,698. 10 Claims. (Cl. 55—77.)



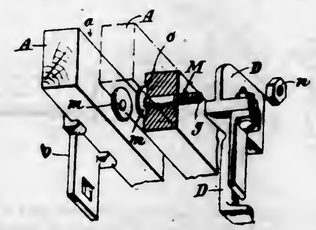
1. A metallic wheel, comprising a metallic wheel rim of sheet metal having its ends abutting forming a joint and butt-welded to each other, and a wheel body welded within said rim and across said joint.

1,386,168. METAL SHELVING. AXEL F. ERICKSON, Aurora, Ill., assignor to All-Steel-Equip Company, Aurora, Ill., a Corporation of Illinois. Filed June 19, 1919. Serial No. 305,364. 10 Claims. (Cl. 211—27.)



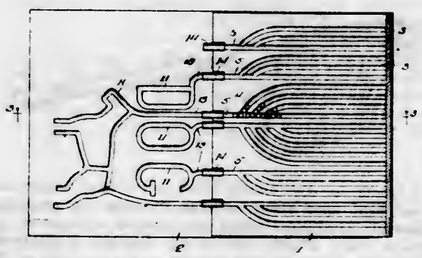
5. A structure of the kind described comprising standards, side-walls secured to said standards, brackets adjustably and removably mounted on said standards, shelves removably supported on said brackets and having vertically disposed front and rear portions and removable front and rear walls coacting with certain of said shelves; said walls provided with lateral flanges along their lower edges coacting with the vertical portions of the shelves, and substantially flat elongated plates pivotally mounted on said walls for removably securing said front and rear walls to said standards.

1,386,169. MEANS FOR ATTACHING PICKER-STICK CHECKS TO LOOM-LAYS. JOHN B. FENNELL and EDWARD B. FLOWERS, Columbia, S. C. Filed Oct. 13, 1920. Serial No. 416,629. 2 Claims. (Cl. 139—22.)



1. The combination with a loom lay having a picker stick slot, of a bracket for suspending a picker check device, a bolt extending entirely through the side of the lay on one side of the picker stick slot and which is threaded at opposite ends, a nut arranged in said slot and engaging the bolt, and a nut engaging the outer end of the bolt outside the bracket.

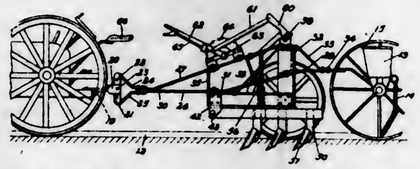
1,386,170. EDUCATIONAL TOY. ALBERT L. FIERLEIN, Batavia, Ill. Filed Oct. 28, 1920. Serial No. 420,272. 7 Claims. (Cl. 35—9.)



1. An educational toy comprising a reservoir, a multiplicity of balls normally contained therein, a record plate

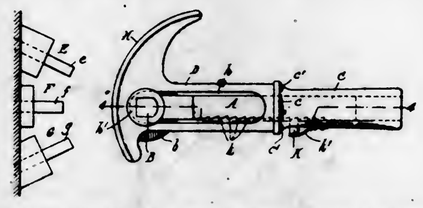
having a groove in its face outlining a pattern or figure, and means for connecting the reservoir and record plate whereby said balls will flow by gravity to said plate to complete said pattern or figure.

1,386,171. SOIL-LOOSENING DEVICE. ROBERT M. FREEMAN, Fremont, Nebr. Filed July 29, 1920. Serial No. 399,786. 3 Claims. (Cl. 97—30.)



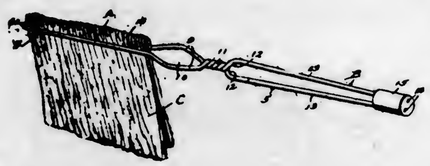
1. A framework for soil looseners comprising a pair of beams secured together at their front and rear ends and being bent apart at their intermediate portions, the rear ends of the beams being higher than their front ends, a bridge-piece extending transversely between the bent-apart beams near their rear ends, a truss brace secured to said beams and bridge piece, said bridge-piece having supporting standards, side rails connected to said standards at their lower ends and extending forwardly therefrom, a cross sill connecting the front ends of the rails, a second truss brace between the beams and connected to said beams and the sill, and an implement holder carried by the framework.

1,386,172. ACCIDENT-PREVENTING ATTACHMENT FOR VEHICLES. EDWARD J. FUTTERER, Buffalo, N. Y. Filed Mar. 30, 1918. Serial No. 225,713. 9 Claims. (Cl. 74—39.)



8. The combination of safety appliances and a controlling device, of an attachment including a movable part which is arranged in operative relation to said controlling device, an actuating device for said safety appliances adapted to be engaged by said movable part for causing the actuation of said appliances, and means for releasably holding said movable part in a position in which said part engages said actuating device.

1,386,173. HOLDER FOR DISHCLOTHS, MOPS, OR THE LIKE. ASBURY HAMILTON, Brooklyn, N. Y. Filed Dec. 11, 1919. Serial No. 344,062. 1 Claim. (Cl. 15—56.)



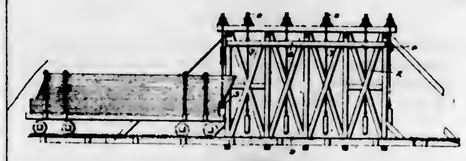
A holder for dish cloths, mops or the like, comprising, a rod bent upon itself between its ends for providing oppositely arranged strands, the forward portions of the strands being slightly spaced for forming a relatively long holding member, said strands at the rear end of the holding member being bent outwardly to provide a substantially elliptical portion, said strands being twisted closely together at the rear end of the elliptical portion for providing a relatively short shank, said strands at the rear end of the short twisted shank being bent outwardly in opposite directions and continuing rearwardly longitudinally and spaced laterally for a substantial distance for providing an open handle portion, the spaced strands of the handle portion converging rearwardly, the outwardly bent portions serving as a thumb rest whereby the thumb may readily slide the hand rearwardly upon the rearwardly converging strands, and a knob secured to the rear ends of said strands and retaining them spaced, said knob extending laterally beyond such ends to serve as a stop for the hand when moved rearwardly upon the converging strands.

1,386,174. RADIATOR-PROTECTOR. THOMAS P. HARRIS, Clarinda, Iowa. Filed Jan. 28, 1919. Serial No. 273,664. 1 Claim. (Cl. 257—132.)



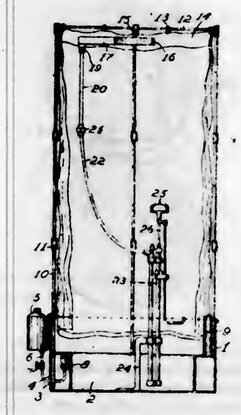
In a radiator protector, the combination of two protector members, one capable of sliding movement relative to the other, and designed to be placed against the front of a radiator, one of said protector members being provided with openings and the other being provided with vertical slots, and a means for securing both of said members to a radiator and at the same time permitting an adjustment of one of the members relative to the other, said means comprising fastening devices extended through said openings and through said slots, and designed to be extended through the radiator, and being provided with means on their rear ends for engaging the rear surface of the radiator to frictionally hold the protector members in any adjusted position relative to each other and in position against the front of the radiator, for the purposes stated.

1,386,175. MEANS FOR STRAIGHTENING CARS AND THEIR LOADS. AUGUSTUS C. HINCKLEY, Pocatello, Idaho. Filed Oct. 8, 1920. Serial No. 415,546. 7 Claims. (Cl. 104—254.)



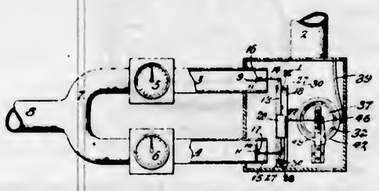
1. The herein described means of straightening cars and their loads, comprising a wall or frame at either side of a railway track; beams or abutments carried by said walls and vertically adjustable relatively thereto, certain of said beams or abutments extending lengthwise of and in proximity to the inner or opposing faces of said walls or frames and others thereof extending transversely of the track, each of said beams or abutments being adjustable to a position in horizontal plane with the displaced portion of the car or of the load; the car or load and any selected abutment being movable, one relatively to the other.

1,386,176. DISASSEMBLABLE BATHING APPARATUS. FRANK A. HOLMES, Waterloo, Iowa. Filed July 26, 1920. Serial No. 399,212. 1 Claim. (Cl. 4—26.)



In combination, a tub containing an inner closed encircling chamber arranged about a central closed bottom upwardly-opening space, said tub having an opening into said chamber and a closure for said opening, a burner in said chamber, a flue in communication with said chamber, a rose-head supported removably above said tub, and a pump removably associated with both said rose-head and tub and in communication with both to supply the former from the latter with a liquid under pressure.

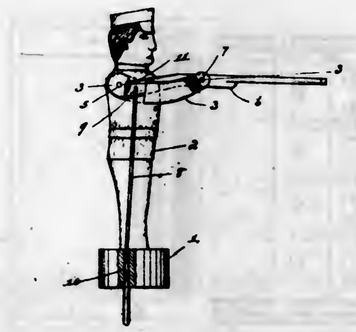
1,386,177. PRESSURE-CONTROLLED FLOW-DIRECTING MEANS FOR COMPOUND METERS. AUGUST G. JETTE and AXEL JOHNSON, Buffalo, N. Y. Filed Aug. 1, 1918. Serial No. 247,735. 14 Claims. (Cl. 73—167.)



1. A pressure controlled flow-directing compound meter comprising a pressure chamber having a gas inlet and a plurality of outlets which are connected, respectively, with a plurality of indicators, measuring total valumes of gas passing therethrough, and means which are responsive to the variations in pressure in said chamber and which operate to direct the gas from said chamber into one or another of said outlets.

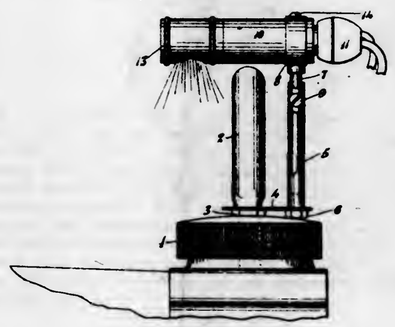
14. An apparatus of the character described comprising a plurality of meters, means automatically controlled by the pressure of the fluid being metered whereby the flow to the meters at relatively high pressures will all be directed through one meter only, and at relatively low pressures through the other meter only, while the flow of fluid at pressures intermediate relatively high and low pressures will be divided the parts going respectively through different meters.

1,386,178. TOY SOLDIER. CARL H. KALLENBERG, Troy, N. Y. Filed Sept. 13, 1920. Serial No. 409,817. 2 Claims. (Cl. 46—40.)



1. A toy-soldier comprising in combination a body having a shoulder-block; an arm pivoted upon the body adjacent to the shoulder-block; a toy-gun pivotally connected to the outer end of said arm at a distance from the butt end of the gun approximately equal to the distance from said pivotal connection to said shoulder-block; and a rod pivotally connected with the butt of the gun.

1,386,179. MOTOMETER-LAMP. JOHN R. KERNS, Covington, Ky. Filed Nov. 8, 1920. Serial No. 422,437. 1 Claim. (Cl. 240—2.)

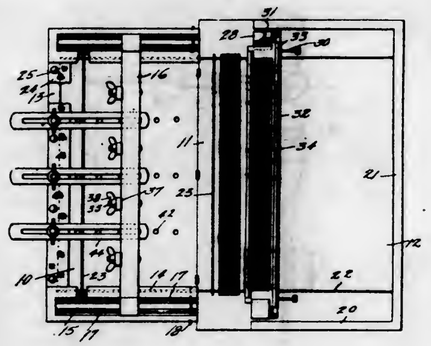


A motometer lamp, comprising in combination with a motometer, a tubular standard mounted adjacent said motometer, a rod arranged to telescope in said standard, a set screw to secure said rod in desired adjustment in the standard, an annular head on the free end of said rod, a socket arranged to fit in said head and to be longitudinally and rotatably adjustable therein, a set screw to secure said socket in desired adjustment; said socket being arranged to receive an electrical bulb and an electrical plug, and electrical connections in said socket between said plug and bulb.

1,386,180. PLAITING DEVICE. LAURA L. KNAUR, Denison, Tex. Filed Sept. 10, 1920. Serial No. 409,438. 7 Claims. (Cl. 223—40.)

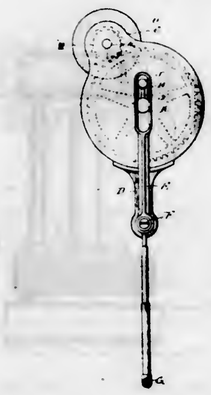
1. In a plaiting device, a base, a plurality of plaiting knives, plaiting and holding fingers suspended over the

base and coöperating with the knives to hold the goods while said knives are being placed in position, and means



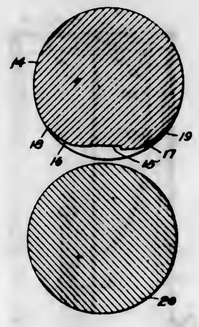
for clamping and holding the goods after it has been plaited.

1,386,181. GRINDING IMPLEMENT. JOHN L. KOTYNEK, Omaha, Nebr. Filed Nov. 15, 1919. Serial No. 338,148. 1 Claim. (Cl. 74—14.)



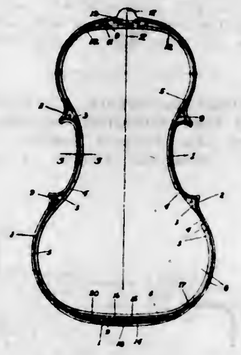
The combination with a casing having a horizontally disposed rotatable shaft therein provided with a rotatable element, said casing having a supporting bracket adjacent the lower sides thereof, of a foot actuated treadle for operating said shaft, said treadle being pivotally mounted on a downwardly extending arm extending downwardly from the lower end of the casing and located below the casing supporting bracket, the upper end of the treadle being provided with an elongated slot, an arm having a crank pin carried by said rotatable shaft, said crank pin being disposed in the elongated slot of the treadle, said casing carried shaft being disposed above the casing supported bracket and a foot engaging member carried by the lower end of the treadle and forming means whereby the treadle may be rocked on its pivotal point for rotating the shaft within the casing.

1,386,182. CONICAL DISK AND METHOD OF MAKING SAME. OTTO B. LINDQUIST, Tarentum, Pa. Filed Apr. 22, 1919. Serial No. 291,936. 6 Claims. (Cl. 80—16.)



1. The method of forming a radially tapered circular plate which consists in roller forge beveling a blank in opposite directions, then in roller forge beveling said blank equally in all radial directions.

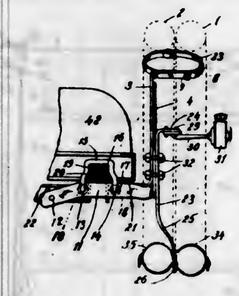
1,386,183. VIOLIN-BODY. WILLIAM J. LUCAS, Fresno, Calif. Filed Mar. 8, 1920. Serial No. 364,031. 4 Claims. (Cl. 84—275.)



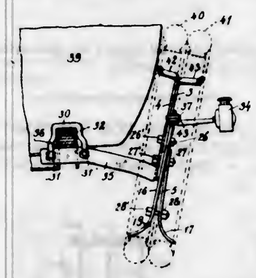
2. A body for violins and the like comprising relatively thin sides, triangular edgings following the interior contour of the sides and flush with the top and bottom edges thereof, the edgings being considerably wider than the thickness of the sides, whereby relatively large gluing area is had for the securing of the belly and back members of the body, and dowel pins projecting outwardly from the sides into recesses in the belly and back for positively alining the parts and preventing displacement.

1,386,184. AUTOMOBILE-TIRE HOLDER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Nov. 29, 1916. Serial No. 134,060. 11 Claims. (Cl. 224—29.)

10. In automobile tire holders, tire supporting members and connected resilient vertically rigid and horizontally yieldable attaching arms having bearing faces adapted to be clamped edgewise against an automobile and support the tire holder therefrom, each of said attaching arms having a second bearing face arranged at an angle to the first, and said bearing faces being arranged at different distances from the point of connection of the arms and supporting members.

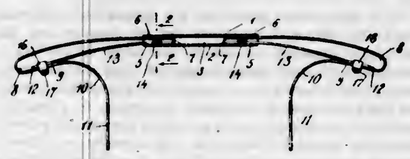


1,386,185. AUTOMOBILE-TIRE HOLDER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Sept. 15, 1917. Serial No. 191,526. 12 Claims. (Cl. 224—29.)



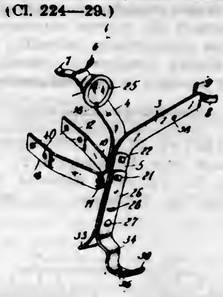
12. In demountable rim tire holders adapted for use with Ford or similar automobiles, a pair of members formed of steel having rearwardly extending attaching members and upwardly extending tire and rim supporting members arranged to be substantially rigid in a vertical plane and adapted to be held together, and downwardly extending holding means for applying coöperative wedging radial pressure against the tire and rim and said supporting members.

1,386,186. RESILIENT AUTOMOBILE-BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Feb. 10, 1920. Serial No. 357,757. 14 Claims. (Cl. 293—55.)



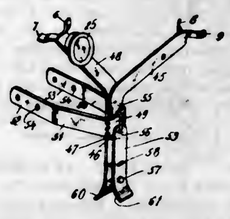
10. The automobile buffer comprising attaching members each comprising an inwardly extending narrow duplex connector portion formed of vertically arranged resilient strip and having a narrow connector loop and coöperating duplex alining connector members comprising two similar channel connectors to fit vertically over the duplex connector portions of said attaching members and clamping bolts passing through said connector members and connector portions adjacent said connector loops to adjustably secure said connector portions in vertically rigid position.

1,386,187. TIRE-HOLDER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Mar. 19, 1920. Serial No. 367,044. 10 Claims. (Cl. 224—29.)



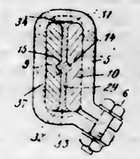
2. In automobile tire holders, a pair of connected resilient strip members having upwardly and outwardly extending diverging tire supportinf arms, a connected depending retainer arm and coöperating clamping means to hold the tire, said retainer arm being formed with a supporting end to support an extra tire.

1,386,188. TIRE-HOLDER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Mar. 27, 1920. Serial No. 369,419. 7 Claims. (Cl. 224—29.)



4. In automobile tire holders, coöperating supporting arms having separated upper ends adapted to support a tire rim and having overlapping junction portions and holding arms, a one-piece coöperating resilinet strip attaching member having a narrow alining junction socket adapted to coöperate with said junction portions and a junction bolt connecting said junction portions thereto, said attaching member having separated substantially vertically rigid attaching arms adapted to coöperate with the transverse rear spring of an automobile and be clamped thereto.

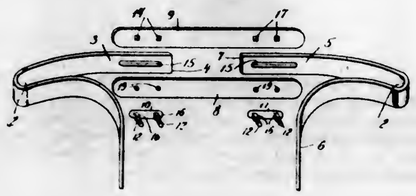
1,386,189. AUTOMOBILE BUMPER OR BUFFER DEVICE. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Oct. 31, 1919, Serial No. 334,672. Renewed June 18, 1921. Serial No. 478,717. 18 Claims. (Cl. 293—55.)



2. The automobile buffer comprising a resilient strip buffer front member having grooved connector portions and attaching members having grooved connector portions coöperating with the connector portions of said buffer front member, interposed connector alining members arranged between each of said coöperating connector por-

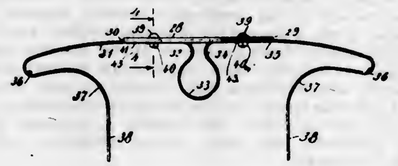
tions and comprising a connector member fitting within the grooves in said connector portions and comprising external alining flanges engaging the edges of said connector portions to promote the vertical alinement thereof, and clamping devices substantially embracing said connector portions and alining members to strongly and reliably hold said buffer members in adjusted position.

1,386,190. ADJUSTABLE AUTOMOBILE-BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Dec. 27, 1919. Serial No. 347,760. Renewed June 18, 1921. Serial No. 478,718. 7 Claims. (Cl. 293—55.)



7. The automobile buffer having a resilient buffer front comprising an apertured spring strip connecting portion and a coöperating reinforcing connecting member arranged on one side of said connecting portion and formed with duplicate connecting holes and a U-bolt connecting device comprising a yoke having a flat face coöperating with said reinforcing connecting member and comprising shanks extending into the connecting holes of one of said reinforcing connecting members and into said inner connecting portions to adjustably connect such elements.

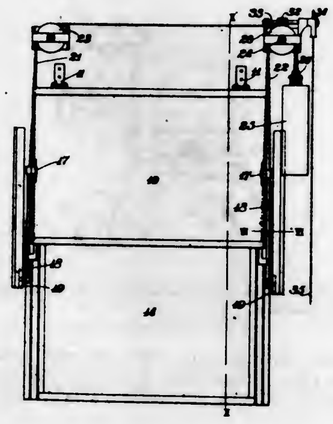
1,386,191. RESILIENT AUTOMOBILE-BUFFER. GEORGE ALBERT LYON, Philadelphia, Pa. Filed Feb. 27, 1920, Serial No. 361,821. Renewed June 18, 1921. Serial No. 478,719. 7 Claims. (Cl. 293—55.)



6. The automobile buffer comprising attaching members, end loops adapted to extend into protective position adjacent the vehicle wheels and buffer front members integral with said end loops, said buffer front members having a yieldable connection adapted to permanently connect and vertically aline the adjacent parts of said front members, a front reinforcing member having flanged alining means and connecting devices adapted to engage said reinforcing front member to aline and hold in adjusted position the parts of said buffer front member on either side of said yieldable connection.

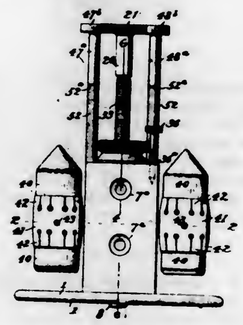
1,386,192. DOOR OR SHUTTER. EDWARD H. MCCLOUD, Columbus, Ohio, assignor to The Kinnear Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed June 30, 1919. Serial No. 307,839. 9 Claims. (Cl. 189—51.)

9. In a door or shutter, the combination of a hinged upper section, a lower section slidable into coincidence with the upper section, a deflecting arm for the sections hinged at one end to one of the sections and sliding in a



guide at its other end and means for actuating said deflecting arm and the lower section.

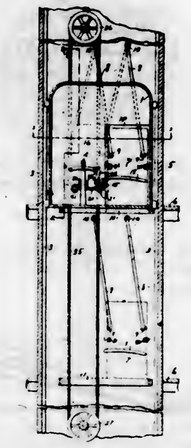
1,386,193. APPARATUS FOR DISPENSING DENTAL MATERIALS. CHARLES WILBUR MEGUIAR, Sonora, Ky. Filed Feb. 8, 1917. Serial No. 147,511. 26 Claims. (Cl. 221—96.)



1. A dispensing apparatus for dental use comprising a vertically disposed container for mercury or the like, a vertically disposed receptacle for alloy or the like, the receptacle for alloy being supported from the mercury container and adapted to be rotated from a position in which its discharge end is arranged uppermost to a position in which its discharge end is arranged lowermost whereby to discharge material therefrom, the mercury container having an outlet in the base thereof, a valve to control said outlet, and vertically movable actuating means to move said valve and rotate said receptacle whereby the mercury and amalgam may be simultaneously discharged.

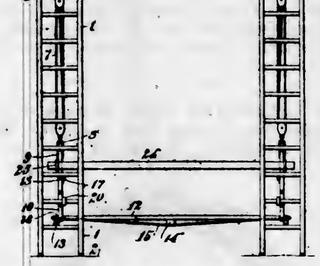
1,386,194. SAFETY ATTACHMENT FOR ELEVATORS. GEORGE J. MEYER, Milwaukee, Wis. Filed Aug. 5, 1919. Serial No. 315,510. 15 Claims. (Cl. 187—49.)

15. The combination with a landing door and car, of an elevator system, of interlocking members connected with the door and car respectively and adapted to allow the door to move freely into interlocking relation to the car when the door is opened and the car is in correct position



of adjustment without added resistance due to the interlocking members.

1,386,195. ADJUSTABLE SCAFFOLD. PHILIP W. MINNIGAN, Dayton, Ohio. Filed June 30, 1920. Serial No 393,120. 5 Claims. (Cl. 304—19.)



1. In an adjustable scaffold, the combination with a pair of ladders, of a yoke for each ladder, each yoke having hook-shaped end portions to engage the outer portions of the ladder rails and having an intermediate loop spaced from said hook-shaped portions and extending to the inner side of said ladder and adapted to rest upon a rung thereof, adjustable suspending devices connected at their upper ends to the loops of the respective yokes, a platform supporting member connected with the lower end of each suspending device, and a platform carried by said supporting members.

1,386,196. DOOR-CHECKING DEVICE. NEIL D. MUNN, Dresden, Ontario, Canada. Filed Dec. 8, 1920. Serial No. 429,284. 5 Claims. (Cl. 16—88.)

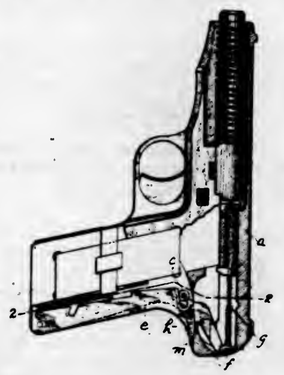
3. In a device of the character described, the combination of a cylinder; a plunger rod having a plunger secured thereto to reciprocate in the cylinder, said plunger being adapted to allow fluid to pass by freely when moving outwardly in the cylinder, the head of the cylinder and the outer end of the rod being adapted to be pivotally secured

to a door and door jamb; a liquid reservoir located above the cylinder and communicating only with the head thereof; means for controlling the flow of air and liquid



from the cylinder to the reservoir when the plunger is moving inwardly in the cylinder; and spring means tending to close the door.

1,386,197. SELF-LOADING PISTOL. HEINRICH ORTGIES, Erfurt, Germany. Filed Apr. 1, 1919. Serial No. 286,814. 4 Claims. (Cl. 42—3.)



1. In an automatic pistol, the combination, with a cocking lever having a recess therein; of a bolt mounted for axial sliding movement transversely of the handle of the pistol and provided with a collar conforming to the shape of said recess but normally disalined therefrom; and a controlling spring acting to automatically shift said bolt axially in a direction to engage said collar in said recess when the cocking lever has been forced inward, whereby said lever will be locked against return movement.

1,386,198. MOVING-PICTURE-MACHINE SHUTTER. MILTON L. PARRET, Marshalltown, Iowa. Filed Sept. 14, 1920. Serial No. 410,250. 1 Claim. (Cl. 88—19.3.)

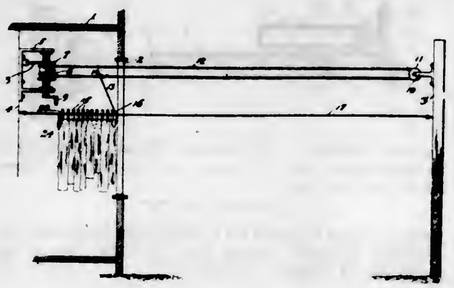


The combination with a moving picture projection machine, a light breaker or shutter device comprising a cylindrical shaped member having a pair of series of obliquely arranged members adapted to be intermittently moved into the path of light for partially shutting off the light during the movement of the film from one picture to the other for substantially eliminating the flicker.

1,386,199. CLOTHES-DRYING APPARATUS. RADE N. PEROVICH, Washoe, Mont. Filed Oct. 19, 1920. Serial No. 418,018. 4 Claims. (Cl. 68—3.)

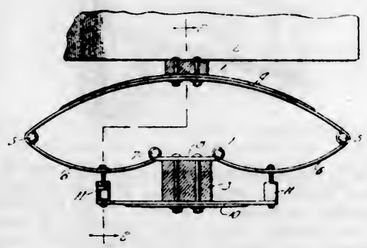
2. In an apparatus of the class described, the combination of an endless driving line, a track line contiguous to said driving line, load-supporting means adapted to

travel upon said track line, a connecting link coiled at one end around the driving line and having its other end surrounding said track line, and connecting means for said



link and load-supporting means whereby, when the driving line is driven, the connecting link will cause the load-supporting means to travel upon the track line.

1,386,200. VEHICLE-SPRING. OSCAR PETERSON, Melrose Park, Ill. Filed Sept. 2, 1919. Serial No. 321,220. 2 Claims. (Cl. 267—46.)



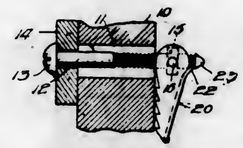
2. In combination with a vehicle, a spring device having a downwardly turned semi-elliptic supporting member, a plurality of intermediate members having their outer ends pivotally connected to the ends of the supporting member and their inner ends pivotally connected to the vehicle axle, a foundation spring member rigidly attached to the vehicle axle below the last named members and resilient pneumatic means for connecting the foundation and intermediate members.

1,386,201. SPECK-DYE COMPOSITION. OSCAR L. PETERSON, Danielson, Conn. Filed Oct. 28, 1920. Serial No. 420,306. 3 Claims. (Cl. 8—6.)

1. A dyeing composition comprising 4.6 per cent. sodium chlorid, 3 per cent. copper sulfate, 1 per cent. tartar emetic, 9.2 per cent. alkali, 27.7 per cent. water, and 55.4 per cent. hematim paste.

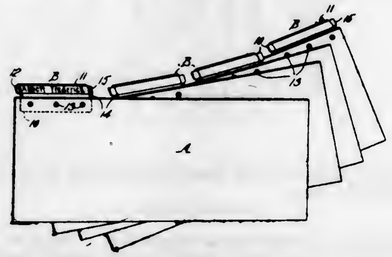
1,386,202. ATTACHING DEVICE. THOR O. PETERSON, New York, N. Y., assignor to U. S. Expansion Bolt Co., New York, N. Y., a Corporation of New York. Filed July 24, 1918. Serial No. 246,618. 8 Claims. (Cl. 85—3.)

1. In a device of the kind described, the combination with a bolt of a nut threaded on the bolt, an arm pivoted to the nut capable of swinging in advance of the bolt into substantial alinement therewith, the arm being formed to engage the bolt when the arm is swung transversely there-



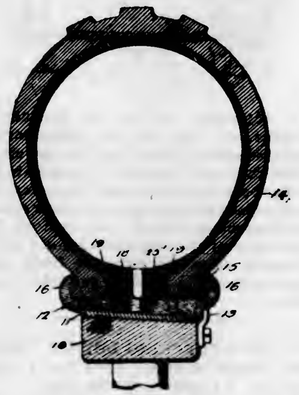
of, and the nut being formed with means to engage the arm when the latter is alined with the bolt, substantially as described.

1,386,203. INDEX. JAMES H. RAND, Jr., Tonawanda, N. Y. Filed May 17, 1917. Serial No. 169,212. 9 Claims. (Cl. 40—23.)



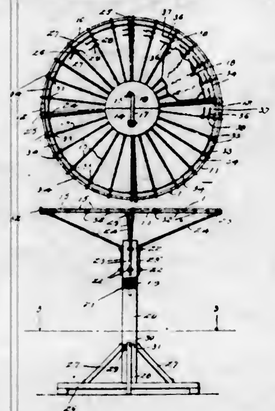
1. An index tap comprising a relatively stiff body-piece which projects from and is substantially rigid with a guide or the like, and a flexible transparent cover-piece which covers one side of the body-piece and is retained in shape thereby and forms therewith a pocket for an index slip, said body-piece having a portion adjacent to one edge of said pocket which holds the cover spaced from the face of the body-piece to facilitate the insertion of the index slip.

1,386,204. PNEUMATIC TIRE. WILLIAM H. RICHARDS, Knoxville, Tenn. Filed Aug. 5, 1920. Serial No. 401,370. 13 Claims. (Cl. 152—22.)



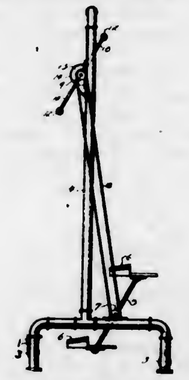
1. In a tire of the character described, a tire casing, a plurality of cells arranged within the tire casing, each cell being provided at its inner portion with an integral heel to be arranged between and engage with the beads of the tire casing, and inflating means carried by the heel.

1,386,205. TABLECLOTH-STRETCHER. CASIMIR RYBIEK, Chicago, Ill. Filed Mar. 21, 1921. Serial No. 454,119. 8 Claims. (Cl. 45—24.)



2. A stretching frame of circular form having a hub and a rim, a plurality of radial arms between the hub and the rim, and stretching hooks having means to frictionally adjustably engage and support the same on the arms.

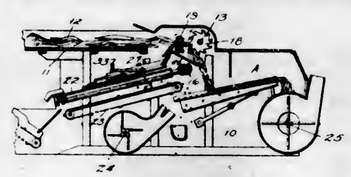
1,386,206. EXERCISING APPARATUS. OTTO LUDVIG SAMUELSON, Chicago, Ill. Filed May 26, 1919. Serial No. 299,915. 1 Claim. (Cl. 46—69.)



In an exercising apparatus, connected frame supports, an upright frame carried thereby, a crank shaft arranged upon said frame supports and spaced away from said frame, one end of said crank shaft being extended beyond the adjacent side of the frame, pedals for said crank shaft, a second crank shaft carried by said frame and disposed upon the opposite side thereof with relation to the said first crank shaft, the ends of said second crank shaft being extended beyond the sides of the frame, chain connection between the extended ends of said crank shafts at one side of said frame, means connecting said frame and an extended end of said second crank shaft at the opposite side of said frame for frictionally retarding rotation of the latter shaft, and an indicator associated with said means.

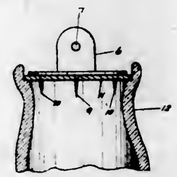
1,386,207. POPCORN-HUSKING DEVICE. JOHN H. SIEGEL, Masonville, Iowa. Filed Sept. 30, 1920. Serial No. 413,688. 3 Claims. (Cl. 130—5.)

1. In combination with a husking machine having snapping rolls, husking rolls and means for operating said rolls, a riddle or chute device having a pair of members capable of sliding longitudinally relative to each other for lengthwise adjustment, one of said members being provid-



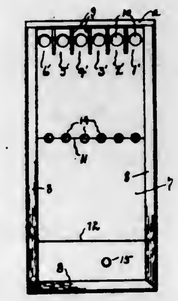
ed with channel shaped portions and raised projections at the bottom of said channel shaped portions, the other of said members being provided with corresponding channel shaped portions.

1,386,208. CLOSURE-LIFTER. WALTER SMITH, Chicago, Ill. Filed June 21, 1920. Serial No. 390,345. 2 Claims. (Cl. 65—47.)



1. A device of the class described, comprising a plate having a lip struck upwardly therefrom to constitute a handle; penetrating points inclined in opposite directions struck downwardly from the sides of said plate; and a penetrating central point struck downwardly from said plate and perpendicular thereto and longer than the said inclined points, adapted to penetrate and anchor the device in position to engage said inclined points, substantially as described.

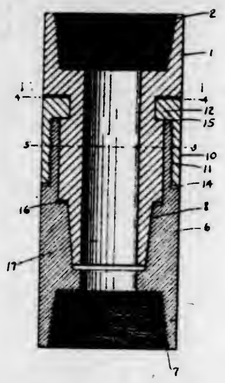
1,386,209. AMUSEMENT DEVICE. FRED STROUD, Omaha, Nebr., assignor of one-half to Hamlin G. Ansell, Omaha, Nebr. Filed June 17, 1920. Serial No. 389,565. 2 Claims. (Cl. 46—61.)



2. In an amusement device, a table having a plurality of numbered apertures formed in one of its sides and having a rail-member at one of its sides projecting above its top, and having a plurality of second apertures formed in its top adjacent to said rail-member, said table also having its top provided with lines disposed parallel with said rail-member, a plurality of object-balls adapted to be placed on one of said lines and bearing numbers corresponding to the numbers of the first named apertures, partitions between said second apertures abutting upon the rail-member and extending inwardly of the table,

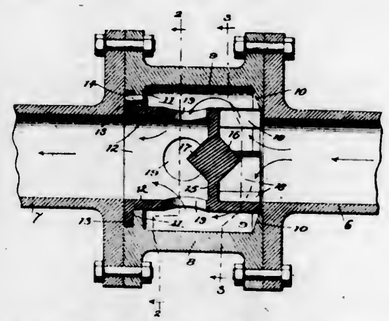
inclined conduits each having a part disposed below in the vertical plane of a second aperture, and a cue-ball adapted to have movements from one of said lines for moving the object-balls to said second apertures.

1,386,210. TOOL-JOINT. AVERY H. THOMAS, Houston, Tex. Filed Jan. 19, 1920. Serial No. 352,489. 6 Claims. (Cl. 285—175.)



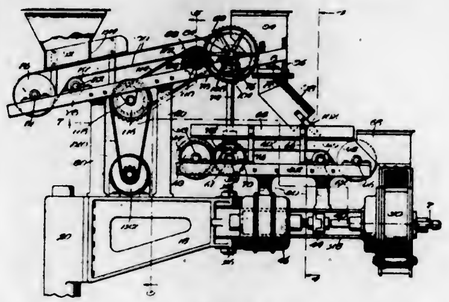
6. A connection between sections of pipe comprising in combination a pin member threaded at one end for connection with a pipe and reduced in diameter at the other end, and a box member threaded at one end and recessed at the other end to receive said pin, keys on one of said members extending longitudinally thereof for the greater portion of its length, and keyways on the other to receive said keys and a collar on the latter of said members to hold said keys firmly in said keyways.

1,386,211. STEAM-DRIER. ALBERT E. TOMPKINS, Hants, England. Filed Mar. 23, 1921. Serial No. 454,889. 5 Claims. (Cl. 183—80.)



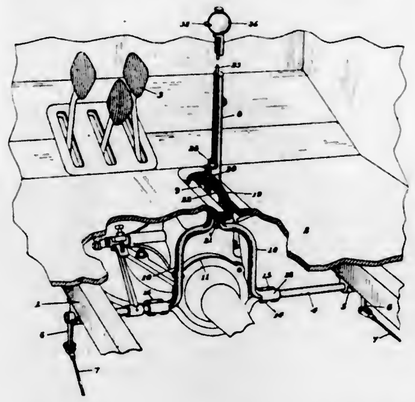
1. In a steam drier, the combination with a casing structure including a steam inlet passage, a steam discharge passage, said passage being opposed to each other, an annular separating chamber of larger diameter than said steam passages interposed between them, and a tangential water discharge port leading from the periphery of said separating chamber adjacent said discharge passage, of a deflector obstructing direct flow between said steam passages; fixed spiral vanes arranged in annular series and extending between said deflector and the periphery of said inlet passage; and an annular baffle surrounding said steam discharge passage and extending toward said deflector and beyond said water discharge port.

1,386,212. SAND-THROWING MACHINE. JOHN S. TOWNSEND, Harvey, Ill., assignor to Whiting Corporation, Harvey, Ill., a Corporation of Illinois. Filed July 3, 1920. Serial No. 393,954. 8 Claims. (Cl. 22—36.)



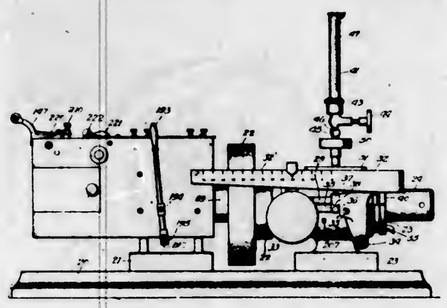
1. In mechanism of the class described, the combination with a pivotal support, an arm pivoted thereto and swinging horizontally on the support, a secondary horizontally swinging arm pivoted to the first arm, a sand throwing head at the outer end of the swinging arm, means carried by the secondary arm for operating said head, a sand conveyer belt mechanism extending along the secondary arm and delivering to the sand throwing head, another sand conveying belt mechanism extending along the length of the first swinging arm and delivering from above to the first conveyer mechanism, means for supplying sand to the second sand conveyer mechanism at a point above the main support, and one single means for driving both of said sand conveyer mechanisms, for the purposes set forth.

1,386,213. AUTOMOBILE CONTROL MECHANISM. DEVANEY CLAUDE EDWARD TRAINOR, Toronto, Ontario, Canada, assignor of one-third to James Aitken Mackerrow and one-third to Henry Claydon, Toronto, Ontario, Canada. Filed Aug. 16, 1919. Serial No. 318,058. 1 Claim. (Cl. 74—39.)



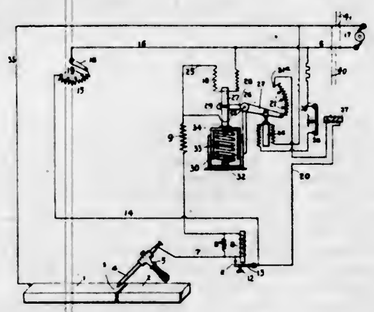
In automobile control mechanism, the combination with a controller shaft shaped to extend around the lower side of a crank case, of a pair of arms having enlarged lower ends and hinged portions forming clamps adapted to grip said controller shaft on opposite sides of said crank case, said arms being shaped to extend around the top side of said crank case, a hand lever rigidly connected to the upper ends of said arms, and a sector.

1,386,214. LUBRICANT-TESTING MACHINE. VANDIVER J. VAN HORN, Chicago, Ill. Filed Oct. 4, 1916. Serial No. 123,639. 27 Claims. (Cl. 265—10.)



1. In a machine of the character described the combination of a driving member; a member to be driven thereby; a recording index; a structure movably responsive to relative displacement of said driving and driven members, connected to said index; a strip moved in timed relation upon which to record a curve to be described by said index; means for moving the strip; and means to change the speed of the strip-moving means with relation to the driving member.

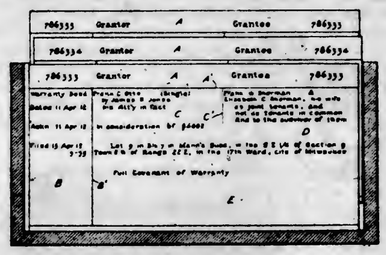
1,386,215. ELECTRIC WELDING SYSTEM. DAVID H. WILSON, Paterson, N. J., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed Nov. 24, 1913. Serial No. 802,699. Renewed Feb. 24, 1916. Serial No. 80,121. 10 Claims. (Cl. 219—8.)



1. In an electric welding system, a source of current supply, a welding circuit connected therewith including a welding tool, and automatic compensating means comprising resistance connected therewith, said compensating means being responsive to current variations therein to compensate for the variation of resistance in the welding arc.

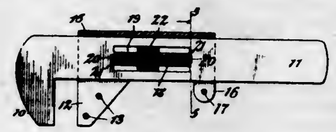
1,386,216. TITLE-RECORD. JOHN F. WOODMANSEE, Milwaukee, Wis. Filed Jan. 31, 1917. Serial No. 145,605. 4 Claims. (Cl. 283—36.)

1. In a system of records of real estate titles, a set of serially numbered manifold abstract cards, each having the grantor's name at one end, and the grantee's name at the other end, each card containing an abstract of one instrument affecting the title, and each having at both ends near the upper margin, an identifying designation of the instrument to which the abstract relates, in combination with a tract index containing entitled subdivisions, each provided with the serial numbers of all



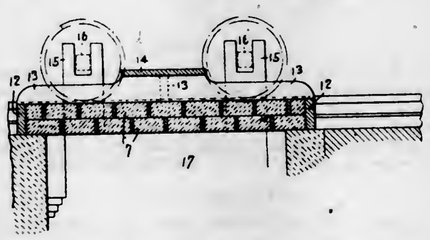
cards containing matter relating to titles and property in such subdivisions.

1,386,217. WRENCH. JOHN ZILLIOX, Orchard Park, N. Y. Filed Nov. 14, 1919. Serial No. 338,024. 8 Claims. (Cl. 81—173.)



4. A wrench comprising two jaws, a longitudinal bar connected with one of said jaws and provided with a longitudinal slot and with notches at opposite ends of said slot, a carriage slidable lengthwise on said bar and carrying the other jaw, an externally screw threaded adjusting rod arranged with its ends in said notches while its intermediate part is arranged in said slot, the sides of said notches being pressed to form lips which confine the ends of the rod against lateral displacement from said notches, and a rotatable screw nut mounted on said rod and engaging with said carriage.

1,386,218. FURNACE COVER OR DOOR. JAMES D. ADAMS, Belle Vernon, Pa. Filed July 10, 1920. Serial No. 395,301. 2 Claims. (Cl. 263—216.)

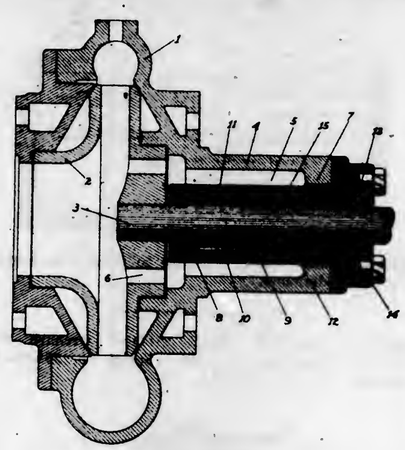


1. As a new article of manufacture, a furnace cover or door formed of cast-metal with a brick lining, the metal forming the casting filling the spaces between said bricks and surrounding same.

1,386,219. WATER-COOLED BEARING FOR PUMP-SHAFTS. ALFRED W. ARCHER, Stockton, Calif., assignor to Sterling Iron Works, Stockton, Calif., a Corporation. Filed Aug. 31, 1920. Serial No. 407,089. 5 Claims. (Cl. 64—28.)

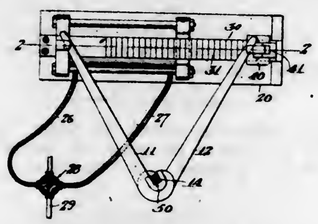
1. In a centrifugal pump, a casing, a runner therein, a shaft projecting from the casing and fixed to the runner.

a circular extension formed with the casing and concentric with and spaced from the shaft, and a bearing sleeve



for the shaft fixed to the casing and positioned in the extension and spaced therefrom, the extension opening into the casing all about the bearing.

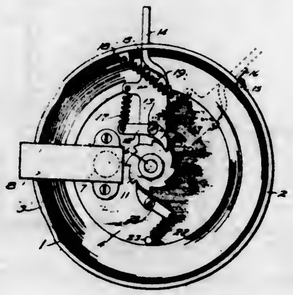
1,386,220. JACK. LEONARD A. ANDERSON, Los Angeles, Calif., assignor of one-half to Roscoe Moss, Los Angeles, Calif. Filed Mar. 1, 1920. Serial No. 362,607. 10 Claims. (Cl. 255—35.)



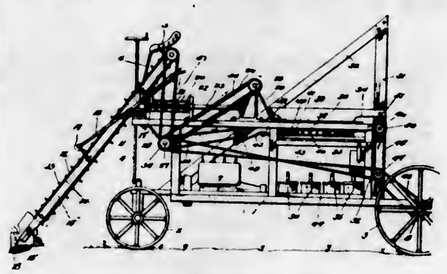
1. A jack for tool joints comprising a frame; a chock for receiving a wrench handle; means for securing said chock to said frame; a movable chock for receiving a wrench handle; a cylinder; a piston in said cylinder; means for securing said piston to said frame; and means for securing said cylinder to said movable chock.

1,386,221. SUGAR CONTAINER AND DISPENSER. SIGVALD EDMUND ENGELHARDT BACHE, Chicago, Ill. Filed Aug. 9, 1920. Serial No. 402,409. 1 Claim. (Cl. 221—108.)

In a sugar container and dispenser, a stand formed with an elongated slot, a perforated partition in said stand, a chute extending through said stand and registering with the perforated portion of said partition, a feed wheel arranged to rotate upon said partition, said feed wheel being formed with a circle of perforations adapted to register consecutively with the perforation in said partition, a drum arranged upon said partition and extending above said feed wheel, a spacer ring disposed between said drum and feed wheel upon said partition, a sugar shed integral with said spacer ring and projected over a portion of said feed wheel to closely cover any perforation in said wheel while the same is in alinement with the perforation in said partition, a shaft for said feed wheel extending centrally through said partition, a ratchet wheel upon said shaft, and a hand lever fulcrumed to said shaft for engagement with the said ratchet wheel whereby an intermittent movement may be imparted to said shaft, the free end of said lever projecting through the slot in said stand.



1,386,222. ONION-HARVESTER. JAMES BAILEY, Martel, Ohio. Filed July 6, 1920. Serial No. 394,209. 5 Claims. (Cl. 55—9.)

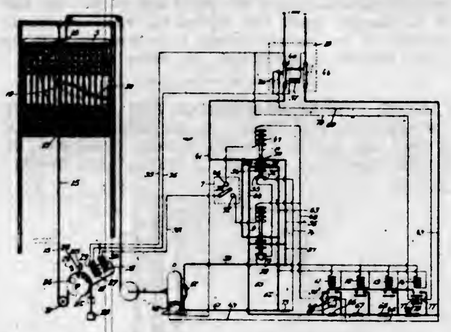


1. An onion harvester comprising uprooting means, an elevator arranged to receive the onions from the uprooting means, a belt disposed adjacent the rear end of the elevator to receive the onions and trash from the elevator, said belt comprising members spaced apart to permit onions to drop therethrough but prevent the passage of trash, cutters disposed in rear of said endless belt to sever tops from the onions, and means for conveying the onions with the tops from the said endless belt and delivering them to the cutters.

5. An onion harvester comprising uprooting means, means for conveying the onions from the uprooting means, a cutting mechanism disposed in rear of said conveying means and consisting of a transversely notched guide and a reciprocatory cutter moving in the guide and across the transverse notches of the same, and means for receiving the onions from the conveying mechanism and causing them to present the tops to the said reciprocating cutters.

1,386,223. ELEVATOR CONTROL. EDWIN F. BANFIELD, Atlantic Highlands, N. J. Filed Dec. 11, 1918. Serial No. 266,216. 12 Claims. (Cl. 187—31.)

1. An elevator control having a source of power for raising and lowering the elevator car, an electromagnetic switch for controlling said source in raising the car, an electromagnetic switch for controlling said source in lowering the car, means actuated by the car operator for controlling both said electromagnetic switches, a safety switch for causing the operation of either electromagnetic switch to prevent further movement of the car independently of said means, and a member extending along

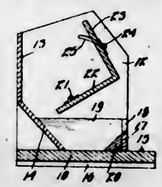


the elevator shaft and operable by the movement of the car door in any position of the car to control said safety switch.

1,386,224. PRODUCTION OF PECTOUS SUBSTANCES. BERTIE THOMAS PERCIVAL BARKER, Long Ashton, Somerset, England. Filed Nov. 5, 1919. Serial No. 335,873. 2 Claims. (Cl. 99—11.)

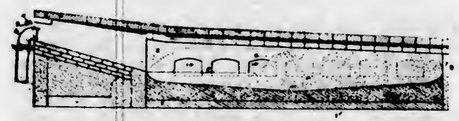
2. The herein described process for producing pectous substances from plant tissue containing pectose and its derivatives, consisting in removing the natural acid therefrom, drying the residual pulp, subjecting the same to the action of steam to render the pectous substance soluble, and employing a solvent to extract the pectous substances from the steamed pulp.

1,386,225. FEED-TROUGH STRUCTURE. PETER BARLAND, Anaconda, Mont. Filed Apr. 9, 1919. Serial No. 288,868. 4 Claims. (Cl. 119—53.)



1. A feeding trough comprising a base and upstanding ends, a plate disposed above the base and pivoted between the ends and its upper surface comprising an inclined plane for guiding the feed into the trough and its lower plane functioning as a feed guard, a section rigidly secured to the plate and standing substantially at right angles above such plate and means carried by the last mentioned section to adjust the combined element without disturbing the angular relation.

1,386,226. METALLURGICAL PROCESS. JOSEPH WALTER BASS, San Francisco, Calif. Filed May 3, 1920. Serial No. 378,667. 3 Claims. (Cl. 263—25.)

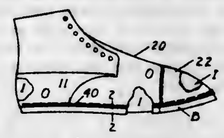


3. The method of melting borings, turnings, or other small metallic pieces in the bulk, which consists in spreading them in bulk form along the bottom of a furnace, applying heat to the upper surface of the spread out portion so as to cause a crust to form over the entire surface of the material spread out, causing the products of combustion of fuel to flow from one end of the spread out mass over the upper side of said mass and agitating portions of said metal successively in the direction of flow of products of combustion from one end of the material to the other.

1,386,227. PROCESS OF REFINING CRUDE ELECTRIC-FURNACE SILICON. FREDERICK MARK BECKET, Niagara Falls, N. Y., assignor to Electro Metallurgical Company, Niagara Falls, N. Y., a Corporation of West Virginia. Filed Sept. 26, 1919. Serial No. 326,505. 2 Claims. (Cl. 252.)

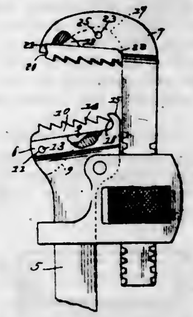
1. Process of refining crude electric furnace silicon containing iron, consisting in crushing the crude material and subjecting the particles to the solvent action of hydrofluoric acid at sufficiently low temperature to avoid substantial loss of silicon.

1,386,228. SHOE-UPPER. BENJAMIN BEHRMANN, Manchester, N. H. Filed July 19, 1918. Serial No. 245,758. 6 Claims. (Cl. 36—45.)



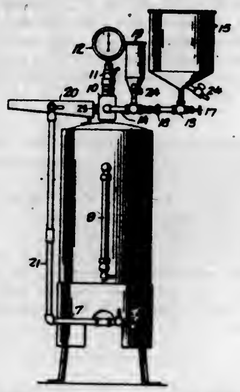
1. A shoe upper which consists of a vamp comprising one or more pieces, a toe-cap fastened thereto, one or more pieces of side lining, one or more pieces of doubler, and a stiffener for a box-toe, all such pieces being formed without lasting allowances, combined with a continuous band attached to and projecting beyond the bottom edges thereof to form a lasting allowance, together with a main lining which has a lasting allowance.

1,386,229. WRENCH. MARK BELCHER, Goose Creek, Tex. Filed Mar. 3, 1921. Serial No. 449,476. 3 Claims. (Cl. 81—180.)



2. In a wrench, a stationary jaw and a movable jaw, the said movable jaw having a recess in its inner face and its inner surface at the outer end of the jaw, a face plate having a projection extending from its inner surface seated in the first mentioned recess of the movable jaw, and a projection on its outer edge fitting in the second mentioned recess of the movable jaw, the said face plate having a curved inner edge fitting to the contour of the jaw, and means for securing the projections of the face plate to the said movable jaw.

1,386,230. HAT-CLEANING MACHINE. NICHOLAS BENENATI, New York, N. Y. Filed Feb. 3, 1920. Serial No. 355,997. 2 Claims. (Cl. 223—26.)



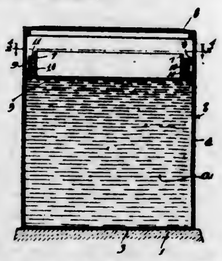
1. In a hat cleaning apparatus, the combination of a boiler, a steam dome on the top of same, lateral steam pipes from the dome, a cylindrical tank supported by one of the pipes, a substantially oval tank carried by the other pipe, steam outlets at the ends of the pipes and in the tanks, a pressing table above the boiler and at the side opposite the tanks, and gas burners for the boiler and the pressing table.

1,386,231. ELECTRICAL IGNITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES. FREDERIC BILLON, Solothurn, Switzerland. Filed Feb. 13, 1918. Serial No. 216,905. 1 Claim. (Cl. 171—209.)



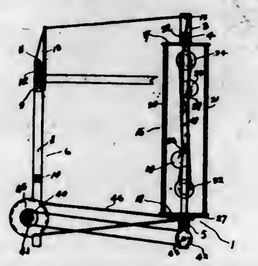
In an electrical ignition apparatus for an internal combustion engine, for producing any desired time-succession of the ignitions, the combination of a stator of which one pole piece is subdivided so as to form two groups of pole tips, said groups being located axially side by side, but separated by a gap, and a rotor of which one pole piece is subdivided so as to form two groups of pole tips, said groups being located axially side by side, but separated by a gap, while the pole pieces of the other pole of both said stator and said rotor are located respectively opposite said gaps.

1,386,232. APPARATUS FOR FIGHTING FIRE IN LIQUID RECEPTACLES. ROBERT E. BOLE, Los Angeles, Calif. Filed Aug. 4, 1919. Serial No. 315,041. 3 Claims. (Cl. 220—88.)



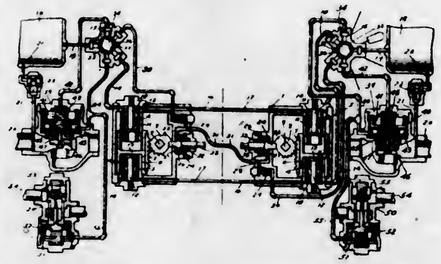
3. The combination of a receptacle for an inflammable liquid, a floating blanket member limiting the exposed surface of said liquid and having a peripheral channel, and a flame smothering material in the channel, the channel extending above the liquid and so that the heat of the flaming liquid will expand the flame smothering material in the channel causing it to overflow upon the liquid surface to extinguish the flame.

1,386,233. TWISTING-MACHINE FOR YARNS, COTTONS, AND THE LIKE. ALLEN ARTHUR BOWERMAN, Hope Bay, British Columbia, Canada. Filed Nov. 24, 1920. Serial No. 426,191. 5 Claims. (Cl. 28—34.)



3. A twisting machine comprising in combination, a plurality of stationary spool supports, a rotatable frame having a single aperture through which the several strands from the spools associated with said supports are adapted to be passed into the frame, a plurality of rotatable rollers disposed to rotate about an axis at right angles to the axis of rotation of said frame, and means for rotating said frame and one of said rollers.

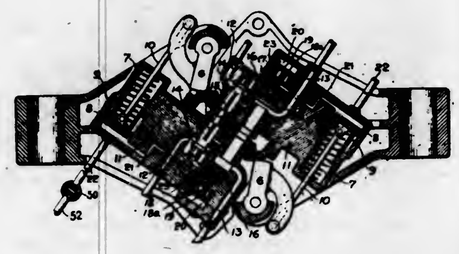
1,386,234. CONTROL MECHANISM FOR FLUID AND ELECTRIC COUPLINGS. THOMAS R. BROWN, Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 22, 1914. Serial No. 840,203. 22 Claims. (Cl. 173—333.)



17. The combination with counterpart car couplers, of electric contact makers carried on each side of each coupler with circuits leading therefrom, and electric reversing switches for reversing the electric circuit connections after impact of the couplers and operation to make a number of circuit connections through the coupler equal to the total of contact makers on both sides of each car coupler.

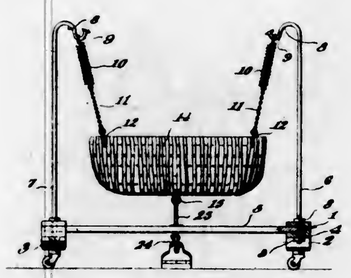
1,386,235. CAR AND TRAIN-PIPE COUPLING. THOMAS R. BROWN, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Original application filed Mar. 6, 1917, Serial No. 152,695. Divided and this application filed July 5, 1919. Serial No. 308,874. 4 Claims. (Cl. 284—5.)

1. In a coupler having passages for automatically connecting the train pipe lines, a closing piston valve for the brake pipe passage, a small valve for venting fluid from the chamber behind said piston, another piston for actu-



ating said vent valve, and a tappet valve operated by the coming together of the counterpart couplers for supplying fluid to said actuating piston.

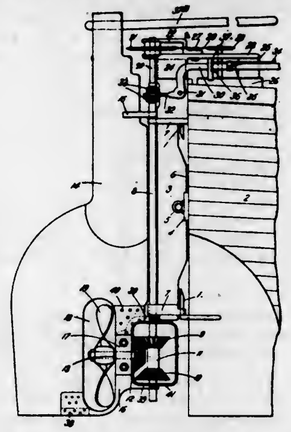
1,386,236. CRADLE. FRANK NORTH CHAMBERS, Davison, Mich. Filed Feb. 27, 1919. Serial No. 279,621. 2 Claims. (Cl. 5—56.)



1. In a cradle, the combination of a supporting structure including standards and a bar adjacent the lower ends of said standards for holding them in spaced apart relation, said bar provided with a vertical slot extending longitudinally of the bar, a container, means yieldably connecting said container to said standards, to permit vertical bouncing or lateral swinging movement of the container, a foot pedal oscillatable below the said bar of said supporting structure, and a rod connecting said foot pedal and the lower portion of said container, said rod extending through the slot of said bar and guided thereby to impart vertical bouncing movement to said container upon oscillation of said foot pedal.

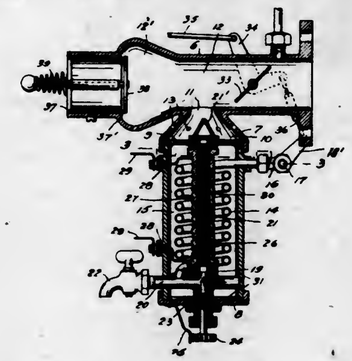
1,386,237. STEERING AND PROPELLING MECHANISM FOR BOATS. PETER COPLAND, Portsmouth, England. Filed Apr. 13, 1920. Serial No. 373,675. 3 Claims. (Cl. 115—18.)

1. In a steering and propelling mechanism for boats, a vertically movable driving shaft, a forked lever pivotally mounted and engaging with said vertical shaft for the purpose of raising and lowering the same, means for locking the forked lever in three different positions, a rudder rotatably mounted on said vertical shaft, a lever secured to said rudder, said lever being used for operating the rudder for steering while the forked lever remains stationary in its locked position, a propeller shaft with a propeller thereon mounted in the rudder, a bevel wheel on the propeller shaft, and two bevel wheels



mounted on the vertical shaft on opposite sides of the bevel wheel on the propeller shaft.

1,386,238. CARBURETER. WILLIAM R. CLARK, Seattle, Wash. Filed Aug. 7, 1919. Serial No. 315,973. 5 Claims. (Cl. 48—103.)

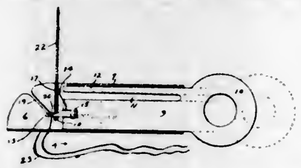


1. A carbureter having a mixing chamber, a heating chamber, a charging chamber interposed between the aforesaid chambers and separated by an imperforate partition from said heating chamber, said charging chamber communicating with the mixing chamber between the inlet and outlet ends thereof, said charging chamber being provided with air inlet openings, a vaporizer provided within said heating chamber, a discharge nozzle provided for the vaporizer in said charging chamber, an electro-heating device for the vaporizer provided in said heating chamber, a throttle valve in the mixing chamber, a valve for regulating the supply of an explosive fluid to said vaporizer, and means for regulating said valves simultaneously.

1,386,239. NEEDLE-THREADER. BUEL COUCH, Sioux City, Iowa. Filed Jan. 16, 1917. Serial No. 142,608. 2 Claims. (Cl. 223—36.)

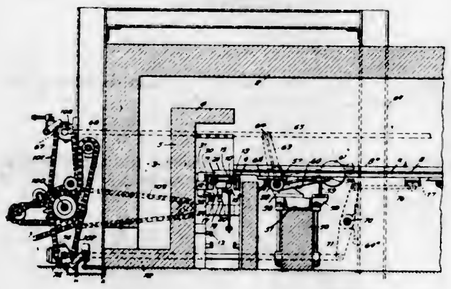
1. In a needle-threader, a body consisting of a blank folded upon itself to afford two parallel sides, a plunger slidable between the sides, one end portion of the body having a thread passage between the sides, and a needle-

receiving hole extending downwardly from the upper edge of said portion and between the sides, a needle seat formed in the body at the bottom of said hole adapted to aline the needle eye longitudinally of the body and a



threading hook on the plunger adapted to pass through the needle eye, the sides of said end portion being slotted to admit a bight of thread for engagement by the hook.

1,386,240. GLASSWARE-MACHINE. EDMA H. CURTIS, Jr., Norwood, Ohio. Filed Dec. 24, 1917. Serial No. 208,589. 11 Claims. (Cl. 49—47.)



7. In a leer, the combination with interspaced fixed and movable supports for glassware in the leer, and a conveyer member having fixed supports corresponding to the fixed supports of the leer, of a driving member common to the movable supports and the conveyer, and adapted to move the movable supports to unload the conveyer member and to move the conveyer member into and out of the leer, said driving member timed to thrust forward the movable supports after the conveyer member is in place in the leer, then lift the supports, then withdraw the supports, and then move the conveyer member out of the leer.

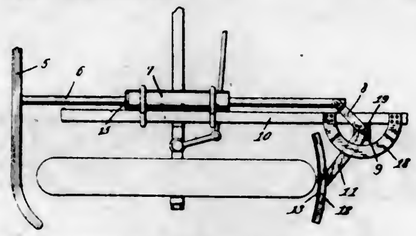
11. A leer having a forward burner chamber, and an arch extending rearward from the chamber walls to provide an overhead passage from the burner chamber into the leer, a conveyer in the leer, and located beneath said arch, and means within the leer for automatically raising the glassware from the conveyer.

1,386,241. LUMINOUS ATTACHMENT FOR ELECTRIC SWITCH CONTROLLERS. FRANK O. DECK, Milwaukee, Wis. Filed Feb. 14, 1920. Serial No. 358,728. 1 Claim. (Cl. 240—1.)



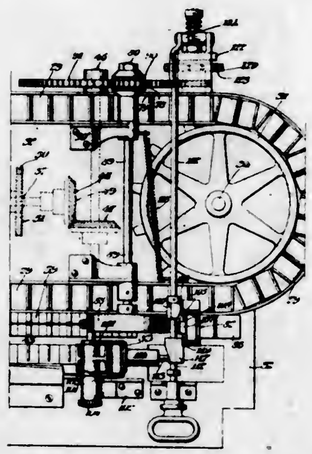
In combination with an electric switch of the push button type, a circular plate having a luminous face, transparent material covering the plate, a clamping ring having a series of tabs bent to engage the underside of the plate, and a plurality of resilient arms extending at right angles from the plate forming means for attaching it to the end of the push button.

1,386,242. AUTOMATIC BRAKE. ROBERT E. DIXON, St. Louis, Mo. Filed Dec. 7, 1920. Serial No. 428,057. 1 Claim. (Cl. 180—83.)



In combination with the front wheels and bumper of a motor vehicle, a brake including a bell crank lever, a brake shoe carried by the bell crank lever, a rod connecting the bell crank lever and bumper, whereby movement of the rod in one direction forces the brake into engagement with the wheel, means for normally holding the brake out of contact with the wheel, and a guard disposed above the bell crank lever to restrict vertical movement of the brake.

1,386,243. BOX-FILLING MACHINE. JOSEPH C. DONNELLY, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Original application filed May 7, 1918, Serial No. 233,081. Patent No. 1,326,187. Divided and this application filed June 5, 1919. Serial No. 301,981. 9 Claims. (Cl. 193—24.)

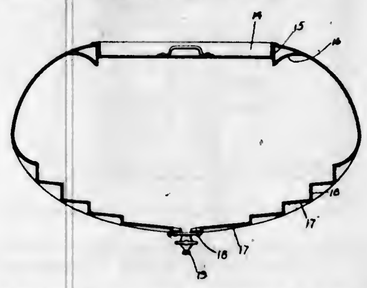


1. The combination with a carrier having a succession of tray holders comprising spaced transverse walls, and means for impelling the carrier, of a tray-feeding element terminating in a tray receiving and supporting member adjacent the path of the walls of said holders, a yielding stop with which the leading trays successively contact when they are delivered to said member, a rotary feed wheel overhanging the carrier and having spaced projections which contact with the inner walls of the successive trays on the said member and also with the succeeding walls of the tray holders, and impositive driving means for actuating said wheel at a normally higher speed than the carrier.

1,386,244. METHOD OF TREATING BRINE. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Sept. 26, 1918. Serial No. 255,813. 13 Claims. (Cl. 204—58.)

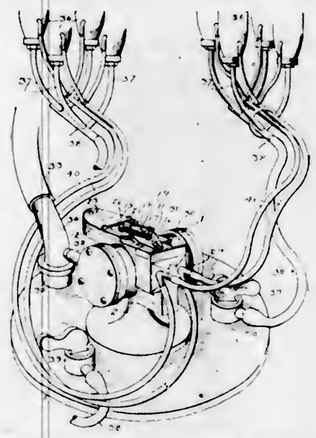
1. In a method of treating a brine of the character described, the steps which consist in precipitating any iron and manganese therein; then precipitating magnesium; freeing any ammonia present; and finally precipitating any alkaline earth metal, so as to leave a pure solution of sodium chlorid, substantially as described.

1,386,245. WASHING-MACHINE TUB. VERNOR B. EDWARDS, Middletown, Ind. Filed Apr. 22, 1921. Serial No. 463,532. 2 Claims. (Cl. 259—75.)



1. A washing machine tub comprising a body portion having a plurality of downwardly inclined ledges separated from each other by downwardly extending wall portions, the lowermost ledge being positioned adjacent the lowermost portion of the tub, whereby said tub will completely drain the water to the lowermost portion thereof when stationary.

1,386,246. PULSATOR FOR MILKING-MACHINES. JOHN G. G. EKLUNDH, Columbus, Ohio, assignor to The Universal Milking Machine Company, a Corporation of Ohio. Filed Jan. 23, 1919. Serial No. 272,679. 18 Claims. (Cl. 31—101.)



1. A pulsator mechanism of the class embodying a pulsator valve, and fluid pressure operated means for alternating said valve, characterized by a free floating unattached control valve capable of both reciprocatory and oscillatory movement governing the action of the fluid pressure upon said operating mechanism, and means to reverse said valve by the action of said operating mechanism.

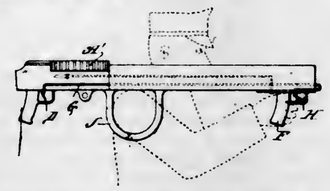
5. The combination with a pulsator valve and fluid pressure operated means for actuating the same, of a control valve governing the action of the fluid pressure upon said operating means, an actuating spring therefor, said fluid pressure operated means being adapted to shift said valve to place said spring under tension, said spring being adapted upon its retraction to actuate the valve to an alternate position.

9. The combination with fluid pressure operated pulsator mechanism, of a movable control valve governing the action of the fluid pressure upon said mechanism, and an oscillatory member actuated to and fro by said fluid pressure operated mechanism and having a substantially V shaped cam surface, the path of travel of which intersects that of the control valve and adapted to shift said valve alternately from one side of said oscillatory member to the other to alternate operative positions, substantially as specified.

12. The combination with fluid pressure operated pulsator mechanism, including two independent intake ports adapted to be connected with teat cups and a suction passage with which said ports are to be alternately connected, a movable control valve adapted to govern the action of the fluid pressure on said mechanism, of an oscillatory member actuated to and fro by said mechanism, one end of said member having a passage way therein adapted upon movement of said member to alternately connect said ports with the suction passage, the opposite end of said member engaging with and actuating the control valve to alternate positions upon said to and fro movement of said oscillatory member, substantially as specified.

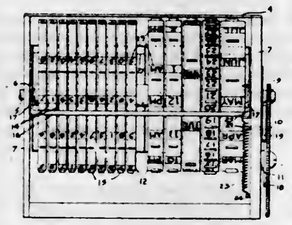
15. The combination with fluid pressure operated pulsator mechanism, a control valve governing the action of the fluid pressure upon said mechanism, and a pulsator valve, of an intermediate connection between the control valve and pulsator valve actuated by said mechanism to effect the reversal of both of said valves.

1,386,247. FIREARM. JOHN R. FORDYCE, St. Louis, Mo., assignor of one-half to Emil P. Pierson, Washington, D. C. Filed Jan. 22, 1918. Serial No. 213,141. 5 Claims. (Cl. 42—3.)



4. A magazine gun, comprising a barrel, an ammunition magazine, a trigger and suitable mechanism arranged at the rear end of said barrel for effecting the explosion of the ammunition, a hand grip arranged in proximity to the extreme front end of the barrel and adapted to be grasped by one hand of the user when the gun is arranged in such a position that the weight of same is borne by the shoulder of the user, and a second trigger arranged in proximity to said hand grip and operatively connected with the trigger first referred to so as to enable the gun to be fired or operated by the hand which grasps the hand grip at the front end of the barrel.

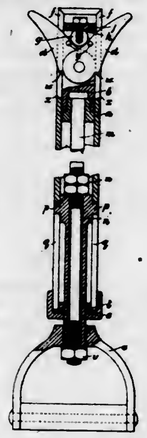
1,386,248. EDUCATIONAL AND AMUSEMENT DEVICE. JOSEPH GALLEAZZI, San Francisco, Calif. Filed Oct. 25, 1920. Serial No. 419,299. 1 Claim. (Cl. 35—9.)



An educational and amusement device embodying in its construction a casing, one wall of which is provided with

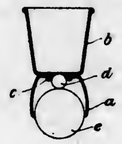
an opening, a shaft rotatably mounted within the casing, a plurality of disks mounted so as to rotate upon said shaft and provided with indicia on their peripheries arranged to be presented to view opposite said opening, a plurality of stop members on said disks, stops with which said stop members are adapted to engage to hold the disks against rotation upon the shaft, and means operated by rotation of the shaft for moving said stops out of stopping position whereby the disks are free to rotate with the shaft.

1,386,249. ROTARY SCRAPING-TOOL. JAMES SANDFORD GANDER, Forest Gate, England. Filed Mar. 8, 1921. Serial No. 450,725. 2 Claims. (Cl. 83—64.)



1. A scraping tool for scraping inside surfaces comprising a casing, a sliding member disposed in said casing, scrapers carried by said sliding member, said casing having slots therein to permit movement of said scrapers, a pin disposed in said casing between the said scrapers adapted to extend them when said sliding member is moved in one direction, means for moving said sliding member, means for preventing the cutters from opening prematurely, and means for retaining said scrapers in the extended position.

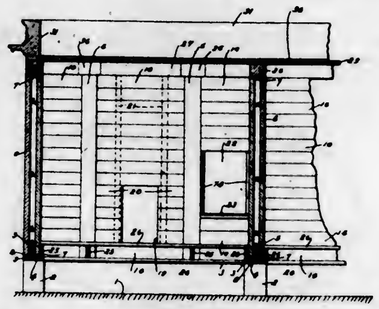
1,386,250. CASTER. CYRIL ROBERT PRESTON GARDNER and HAROLD PARKER, London, England. Filed May 26, 1921. Serial No. 472,648. 1 Claim. (Cl. 16—26.)



A caster comprising a socket member and an attachment member, means for securing the attachment member and the socket member by an extension on the one passing through a hole in the other, said connection forming a ball seat, an antifriction ball adapted to rest on said seat and a caster ball adapted to bear on the antifriction ball and to be retained in said socket member.

1,386,251. HOUSE CONSTRUCTION. DANIEL GARZA, New Orleans, La. Filed Sept. 11, 1920. Serial No. 409,515. 6 Claims. (Cl. 72—16.)

1. In a device of the class described, a base slab having a vertical opening; superposed blocks having openings defining a vertical flue communicating directly with the opening in the slab, the blocks being supported on the slab; and a ventilating box supported on the uppermost block



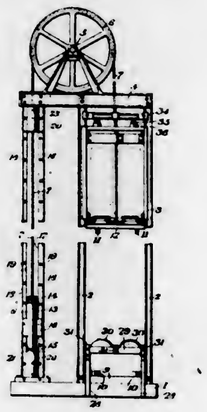
and provided with a passage constituting a vertical continuation of the flue, the box having a lateral outlet for the flue.

1,386,252. DENTIFRICE. WILLIAM T. GREEN, Summit, N. J. Filed May 17, 1920. Serial No. 382,143. 6 Claims. (Cl. 167—9.)

1. A dentifrice comprising yeast and an abrasive agent.

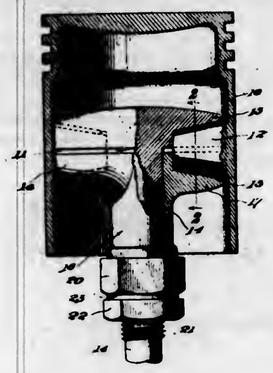
3. A dentifrice comprising yeast, precipitated calcium phosphate, saccharin, powdered ginger, alcohol, pancreatin, diastase, phosphoric acid and a flavoring agent.

1,386,253. AUTOMATIC LOWERING-MACHINE. ALBERT D. HEYL, Philadelphia, Pa. Filed Nov. 14, 1919. Serial No. 338,047. 3 Claims. (Cl. 187—28.)



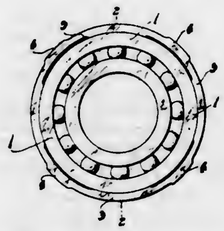
1. An automatic lowering machine, comprising a framework having gig guides, a gig coöperating with said guides, an upper and a lower dash pot for said gig, a sheave carried by said frame-work, a cable connected with said gig and passing over said sheave, a counterbalance comprising a plunger having a piston head at its upper and lower end, one end of said counterbalance being connected to said cable, guide flanges on said counterbalance, vertical guides with which said flanges coöperate, an upper cylinder having one end closed and its other end open and provided with vents and adjustably secured to said guides, and a lower cylinder provided with vents and having its upper end open and its lower end closed and adjustably secured to the counterbalance guides.

1,386,254. PISTON CONNECTION. EINAR HILTON and AARON GIRODAT, Gull Lake, Saskatchewan, Canada. Filed Nov. 26, 1919. Serial No. 340,760. 11 Claims. (Cl. 74—108.)



10. In a piston connection, the combination with a piston, of a pair of diametrically opposed bearing lugs carried by the piston, and a pair of independent and adjustable members carried by the piston rod for engaging the upper and lower surfaces of the lugs.

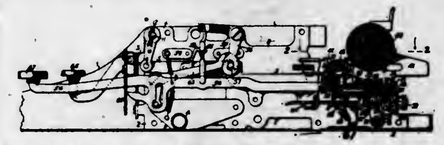
1,386,255. ROLLER, BALL, AND OTHER BEARING. ALFRED HAROLD HINDLE, Birmingham, and STANLEY WHITBY SAVAGE, ALBERT EDWARD DABBS, and ABSALOM LIDDLE, Manchester, England, assignors of one-half to John George William Gruban, London, England. Filed Apr. 29, 1919. Serial No. 293,552. 6 Claims. (Cl. 64—36.)



1. A bearing having a single resilient element adapted to receive and transmit pressure from the shaft, a plurality of distance pieces on the interior of the element extending continuously from one edge of the element to the opposite edge and forming between them spaces extending continuously from one edge to the opposite edge, and a plurality of distance pieces upon the exterior of the said element extending continuously from one edge of the element to the opposite edge in staggered relation to those on the interior thereof and forming between them spaces which extend continuously from the one edge to the opposite edge.

1,386,256. TYPEWRITING-MACHINE. JOSEPH B. HOLDEN, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Feb. 24, 1921. Serial No. 447,533. 10 Claims. (Cl. 197—60.)

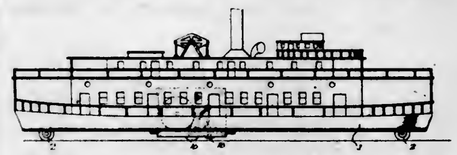
1. In a typewriting machine, the combination of a carriage comprising a sheet metal bed plate which has its main body portion substantially L-shaped in cross section and has its edge portions bent to form two covered bearing roller receiving ways each presenting two track faces one at substantially right angles to the other, a carriage support substantially L-shaped in cross section and having a cast metal body portion and roller receiving ways disposed opposite to the ways in the carriage bed,



both ways on the carriage support being formed by bends in sheet metal plates detachably secured to the cast metal body portion, and bearing rollers in said ways.

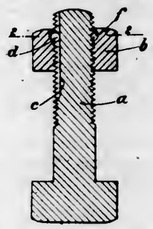
1,386,257. [WITHDRAWN.]

1,386,258. AUTOMATICALLY-REVERSIBLE MECHANICAL TOY. WALTER H. HUTH, Chicago, Ill. Filed Apr. 12, 1919, Serial No. 289,633. Renewed Jan. 29, 1921. Serial No. 441,072. 8 Claims. (Cl. 46—48.)



7. In an automatically reversible mechanical toy, the combination of traction means to propel the toy in either direction, a motor to operate said means, and mechanism controlled automatically by any stoppage of the toy to reverse the propelling means, so that if any portion whatsoever of the toy strikes an obstruction which stops the toy, the direction of travel will thereby be reversed.

1,386,259. NUT-FASTENER. LOUIS JOURDAN and ANDRÉ TRÉMAUX, St. Etienne, France. Filed Dec. 27, 1919. Serial No. 347,720. 1 Claim. (Cl. 151—25.)

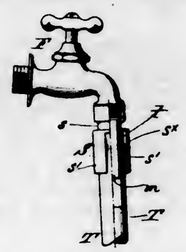


A locking device for preventing the unscrewing of screws and nuts comprising the combination of a nut having in its screw-threaded surface, an uninterrupted annular groove of a substantially rounded cross section concentric with the screw-threaded surface, a bolt having a longitudinal groove in its screw-threaded surface and a ball adapted to be retained at the intersection of both grooves, said longitudinal groove comprising two opposite cylindrical parts having substantially the same radius as the ball and a flat part tangent to both said cylindrical parts and substantially at right angles to a radial plane passing through the point of contact of the ball with the nut when said ball is in contact with said cylindrical part.

1,386,260. HOSE-COUPLING. GOTTLOB KLUMPP, New York, N. Y. Filed Jan. 31, 1920. Serial No. 355,495. 3 Claims. (Cl. 285—82.)

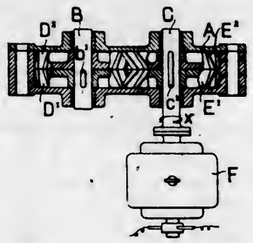
1. A hose coupling of the character designated, comprising a socket sleeve consisting of a plurality of longi-

tudinally extending arms each bent upon itself to form an inturned spring barb jaw, and means for attaching



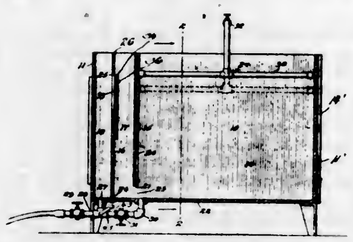
said socket sleeve to a fluid conduit, for the purpose described.

1,386,261. GEAR-DRIVEN PUMP. ERNST LAGE, Kiel-Gaarden, Germany, assignor to Fried. Krupp Aktiengesellschaft Germaniawerft, Kiel-Gaarden, Germany. Filed Dec. 3, 1920. Serial No. 428,079. 2 Claims. (Cl. 103—44.)



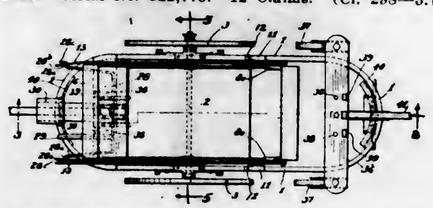
1. An arrangement of the class described comprising a casing provided wihh inlet and outlet openings, intermeshing herring-bone wheels rotatably mounted in said casing, shafts for supporting said herring-bone wheels, each of said wheels being formed in two sections, both sections of one of said wheels being keyed to its respective supporting shaft, one of the sections of the other wheel being keyed to its supporting shaft and means for driving the first mentioned shaft.

1,386,262. PRINT-WASHING TANK. VERA F. LANGTON and JAMES J. UNDERWOOD, New York, N. Y. Filed May 2, 1919. Serial No. 294,251. 17 Claims. (Cl. 95—97.)



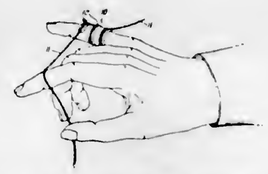
1. A photographic washing tank having an open top, two spaced apart partitions therein dividing the tank into a washing compartment adapted to receive a tray of prints to be washed, and into a refuse water conducting and water level regulating passageway, means for feeding water across the top of the washing compartment, the inner of the two partitions being spaced from the bottom of the tank to provide an intake to the passageway for drawing the refuse water from the bottom of the washing compartment, the outer of the two partitions having its upper edge horizontally disposed and spaced below the top of the tank and below the top of the inner partition thereby to provide means for maintaining a water lever to the water in the washing compartment, and a discharge outlet from the portion of the passageway between the outer partition and the end wall.

1,386,263. REVOLVING-BOTTOM DUMP-WAGON. ELISHA G. LEDYARD, Sioux Falls, S. D. Filed Sept. 10, 1919. Serial No. 322,775. 12 Claims. (Cl. 298—5.)



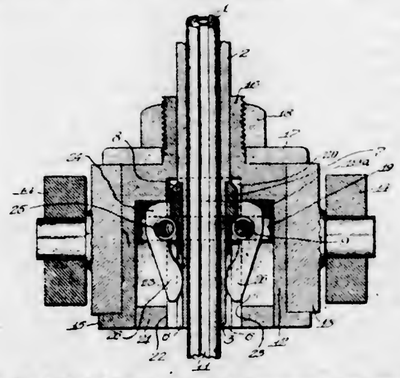
1. A dump wagon having a body portion, a bottom pivoted at its center, and means for normally holding the bottom rigidly in position with respect to the body portion, and capable of being withdrawn to permit the rotation of the bottom.

1,386,264. YARN-HOLDER. MAX LEVY, New York, N. Y. Filed Mar. 4, 1920. Serial No. 363,262. 2 Claims. (Cl. 66—17.)



1. A yarn holder, comprising a helix of open tubing, each coil of the helix being adapted to yieldingly directly engage a human finger whereby said yarn holder is capable of being held without locking means on fingers differing in thickness.

1,386,265. YIELDABLE JOINT. THEODORE G. LINDERME, Detroit, Mich. Filed Aug. 8, 1919. Serial No. 316,079. 6 Claims. (Cl. 192—116.)



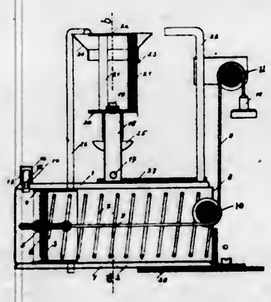
1. In a yieldable joint, a reciprocatory and rotary member, a slip member adapted to raise said reciprocatory member and rotate therewith, a housing inclosing said slip member, yieldable means in said housing normally engaging said slip member so that said housing may elevate said reciprocatory member, and a yieldable support surrounding said slip member and supporting said yieldable means.

1,386,266. STOCKING. WILLIAM J. LONGTIN, Philadelphia, Pa., assignor to Allen Hosiery Company, Wayne Junction, Germantown, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1919. Serial No. 343,858. 1 Claim. (Cl. 66—4.)



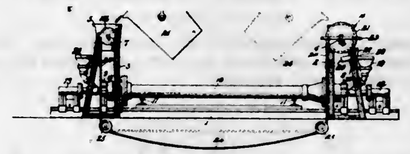
A stocking provided with a welt and consisting of a tubular continuous knitted web of fine yarn and gage extending through the leg and knee portions, and having at the front of the knee portion a reinforcement of splicing yarn extending in uniform courses with the first mentioned yarn to the welt, to, with the welt, resist garter strain and present a uniform appearance at the knee and leg portions.

1,386,267. BURNER FOR LIQUID FUEL. PAUL LUCAS, Berlin-Friedenau, Germany. Filed Feb. 6, 1918. Serial No. 215,714. 4 Claims. (Cl. 158—50.3.)



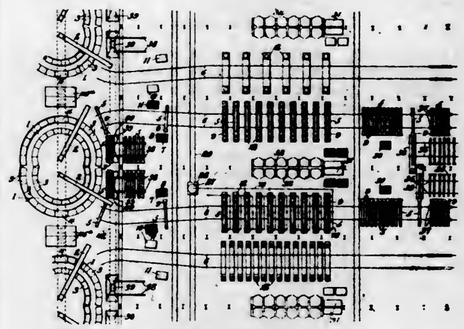
1. In a burner of the character described, the combination with a fuel reservoir, of a pump cylinder in communication therewith, a piston movable in said cylinder, compressible means tending to normally hold said piston in inoperative position within the cylinder, and downwardly movable means for moving said piston in one direction in the cylinder.

1,386,268. MEANS FOR POURING METAL IN THE FORMATION OF CAST-IRON PIPE. JAMES R. McWANE, Birmingham, Ala. Filed Mar. 23, 1920. Serial No. 368,170. 14 Claims. (Cl. 22—65.)



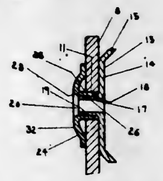
1. In the casting of iron pipe and the like centrifugally in rotatable molds having pouring gates at opposite ends, connected mechanical means for introducing molten metal into the mold through both gates simultaneously.

1,386,269. FOUNDRY PLANT FOR THE PRODUCTION OF CAST-IRON PIPES AND OTHER COLUMNAR-FORM ARTICLES CENTRIFUGALLY. JAMES R. McWANE, Birmingham, Ala. Filed Mar. 23, 1920. Serial No. 368,172. 15 Claims. (Cl. 22—20.)



1. A pipe foundry plant including a pit with means thereat for lining flasks with refractory material, a pipe run extending from the pit toward the other end of the plant, a group or battery of centrifugal casting machines in the line of the pipe run, means for extracting the pipes from the flasks, means for returning the flasks to the pit for cleansing and relining, and means for disposing of the formed pipes.

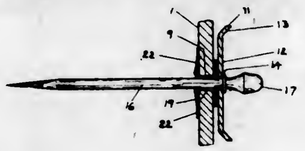
1,386,270. HAT-PROTECTOR. JOHN MAGUIRE, Attleboro, Mass. Filed Dec. 16, 1920. Serial No. 431,087. 3 Claims. (Cl. 132—70.)



3. In a device of the type set forth, a hat having an opening therein, a thin circular plate embodying a body portion and an inclined peripheral flange and a substantially central tubular extended portion having a rounded mouth and an external thread, said tubular portion being passed loosely through said opening with the entire face of the body portion seated against the outer face of the wall of the hat, and a coöperating member embodying a circular plate with a centrally located sleeve having an internal thread adapted to loosely engage the thread of said

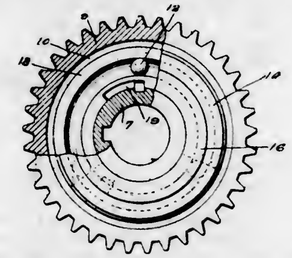
extension, said sleeve being located within the opening in the hat and movable over the extension, the portion of the last-named plate intermediate its marginal edge and the sleeve being elevated and spaced from the walls of the hat, said last-named plate having a flaring mouth.

1,386,271. HAT-PROTECTOR. JOHN MAGUIRE, Attleboro, Mass. Filed Dec. 16, 1920. Serial No. 431,088. 3 Claims. (Cl. 132—70.)



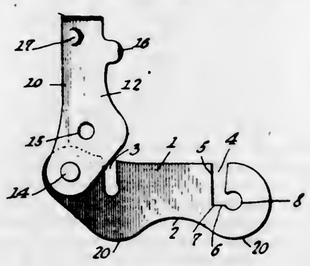
1. In a hat protector, a hat provided with a hole adapted to receive a pin, a guard plate exterior of the hat provided with a central opening registering with the hole, an outwardly inclined peripheral flange upon the plate, and ductile clamping arms extending through the hole and affixed to the plate by means of folds forming bearing bases for the penetrating portions.

1,386,272. SPROCKET GEAR-WHEEL. FRANK L. MORSE, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a Corporation of New York. Filed Oct. 28, 1915. Serial No. 58,312. 5 Claims. (Cl. 74—29.)



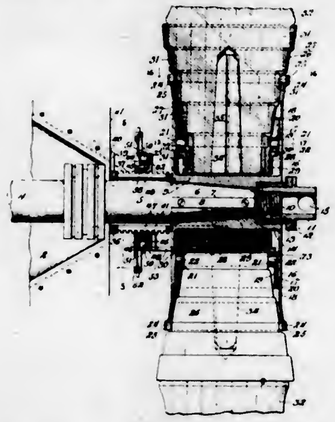
1. A sprocket wheel comprising a hub portion, a rim portion mounted thereon with the capacity of relative rotary movement, a friction producing means for holding said parts together with a certain limited degree of pressure when power is transmitted in one direction, and a device for automatically clamping said parts rigidly together when the power is transmitted in the opposite direction.

1,386,273. CHAIN-CONNECTOR. THOMAS W. OLSON and ANTON IVERSON, Osage, Iowa. Filed May 11, 1921. Serial No. 468,792. 1 Claim. (Cl. 24—69.)



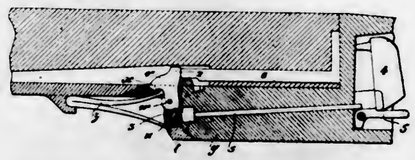
In a chain connector, a body provided in one edge with a notch and having an angular slot including transverse and longitudinal branches, the transverse branch opening through said edge of the body, the opposite edge of the body having a recess defining projections; a U-shaped latch comprising arms and a bend, the arms having openings registering with the notch, the arms of the latch being provided with resilient, inwardly inclined tongues, engaging the body, and projecting beyond the base of the recess, the ends of the tongues lying within a line tangent to the projections, the bend of the latch resting on the body at the inner end of the transverse branch, and constituting a closure for the transverse branch, the longitudinal branch projecting beyond the bend of the latch, the body being received between the arms; and a pivot element uniting the body and the arms.

1,386,274. VARIABLE-PITCH PROPELLER FOR AIRPLANES. CLARENCE LYMAN PARKER, Los Angeles, Calif. Filed Oct. 19, 1920. Serial No. 417,915. 15 Claims. (Cl. 170—163.)



1. A propeller for airplanes, comprising a hub for receiving the airplane drive shaft, said hub being provided with sockets, a stepped taper sleeve in each socket with the large end of the sleeve outermost, a propeller blade for each socket, and a stepped ferrule for each propeller blade adapted to enter a stepped socket.

1,386,275. EJECTOR MECHANISM FOR DROP-DOWN GUNS. HARRY HERBERT PAYNE, Birmingham, England, assignor of two-thirds to John White, Birmingham, England. Filed Aug. 21, 1919. Serial No. 319,026. 1 Claim. (Cl. 42—48.)

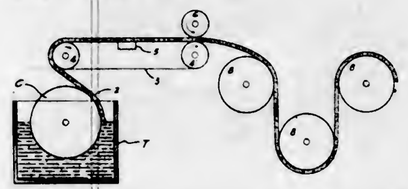


In combination with the frame and the pivotally mounted barrel of a firearm, a movable cartridge ejector carried by the barrel, a pivotally mounted spring actuated ejector hammer also carried by the barrel and having a tooth, and a cocking element for the ejector hammer and comprising a rod slidable longitudinally in a bore in the frame and movable forwardly by the firing hammer, said rod having an enlargement at its front end and a tooth on the front side of said enlargement, the tooth of the said cocking element coacting with the tooth of the ejector hammer to move said ejector hammer to cocked position during initial breaking movement of the barrel, then moving past and disengaging said tooth of said ejector hammer and releasing the latter as the barrel reaches fully broken position, and said tooth of the ejector hammer reëngaging and exerting camming action on the tooth of the cocking element to move said element rearwardly in the path of the firing hammer, when the barrel is returned to closed position.

1,386,276. MOLDED ARTICLE IN LAMINATED FORM AND PROCESS OF MAKING THE SAME. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of West Virginia. Filed Sept. 29, 1917. Serial No. 193,984. 8 Claims. (Cl. 92—55.)

1. The process of producing articles of the character described, which comprises the steps of forming upon a foraminous surface a layer of moldable material containing none or only a comparatively small percentage of comminuted fusible waterproofing material conforming to the shape of the article desired to be produced, and forming adjacent to said first-mentioned layer a second layer containing a comparatively large percentage of comminuted fusible waterproofing material, and subsequently immersing the articles in a bath of waterproofing material.

1,386,277. BUILDING-FELT OR CONSTRUCTION MATERIAL. RAY P. PERRY, Upper Montclair, N. J., assignor to The Barrett Company, a Corporation of New Jersey. Filed Oct. 8, 1918. Serial No. 257,396. 5 Claims. (Cl. 92—21.)

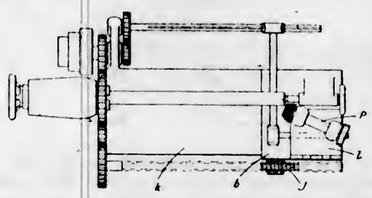


1. As an article of manufacture, a sheet of porous, flexible building felt containing rounded particles of waterproofing material too large to pass through a hundred mesh screen.

1,386,278. METHOD OF RECOVERING AMMONIUM CHLORID. EMILE PIRON, New York, N. Y. Filed Sept. 2, 1920. Serial No. 407,743. 4 Claims. (Cl. 23—21.)

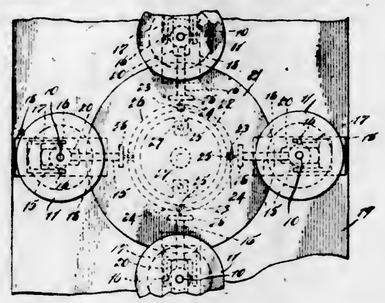
1. The method of recovering ammonium chlorid from coke oven gases, which consists in reducing the temperature of the gases without the addition of water to about the dew point thereof, and then washing the gases with liquid to absorb the ammonium chlorid contained in the gases.

1,386,279. MILLING SCREW-THREADS. GEORGE RICHARDS and LESLIE NEWMAN BURT, Westminster, London, and JAMES EDWARD FREEBORN, Walthamstow, England, assignors to The Richards Thread Milling Machine Company, (1918,) Limited, Westminster, London, England. Filed Apr. 8, 1920. Serial No. 372,315. 3 Claims. (Cl. 10—154.)



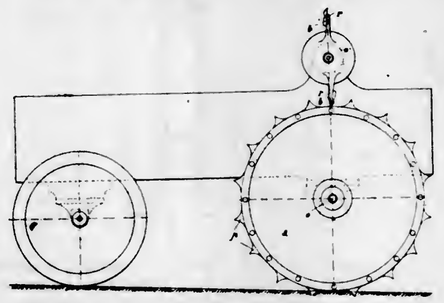
2. The herein described method of milling screw-threads with the aid of a hob, consisting in imparting to the rotating hob a gradual axial motion and imparting to the workpiece an additional relative rotative speed of one revolution for each advance of the hob for a distance equal to the pitch of the thread cut.

1,386,280. BEVERAGE-MIXER. FRANK G. SCHNEIDER, New York, N. Y., assignor to Sanitary Beverage Mixer Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 1, 1920. Serial No. 427,505. 8 Claims. (Cl. 259—131.)



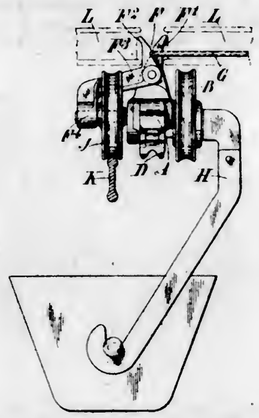
1. In a mixing device, a rotatable carrier, a threaded spindle supported by the carrier and rotatable thereby, means carried by the carrier to engage the threads on said spindle, a weight carried by the spindle adapted to cause said spindle to lag when the carrier is rotated, whereby said spindle will be moved downwardly after the carrier has been placed in motion, and means carried by the spindle to contact with said carrier, when said spindle has been moved downwardly to its full extent, whereby said spindle will be rotated by the rotation of the carrier.

1,386,281. DRIVING-WHEEL FOR MACHINES MOVING OVER SOFT GROUND. JACQUES GUSTAVE SCHULZ, Paris, France. Filed July 30, 1920. Serial No. 400,176. 1 Claim. (Cl. 280—158.)



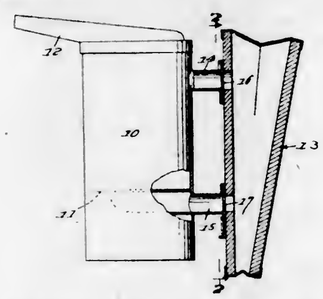
The combination with a spiked driving wheel for machines intended to move over soft ground, of a rotary scraper-wheel adapted to rotate about an axis of fixed relative position in the frame of the machine, and scrapers carried by the said wheel scraper so as to remove the soil between the projections of the said driving wheel, the outer profile of the said driving wheel being such that at each rotation of the same, the scraping edges of the scrapers carried by the said scraper-wheel pass with a slight clearance over the entire surface of each projection, the rotation of the said scraper-wheel being in opposite direction to that of the said driving wheel so that upon the rotation of the said two wheels the scrapers carried by the said scraper-wheel successively enters the depressions between the projections of the said driving wheel.

1,386,282. AERIAL ROPEWAY ON THE SINGLE-ROPE SYSTEM AND THE LIKE. HERBERT FREDERICK HENRY SHIELDS, Welling, England, assignor of one-half to the British Ropeway Engineering Company, Limited, London, England, a British Company. Filed Feb. 28, 1921. Serial No. 448,463. 7 Claims. (Cl. 104—208.)



1. In a monocable or single-rope transportation plant, the combination of a rail, a boxhead supported by and arranged to travel along the same, a traction rope operated on the single-rope system and supported in positional relation to said rail, and gripping means on the boxhead operated by contact with said rail and arranged to grip said rope.

1,386,283. BEE-SMOKER. ORVILLE W. SHRADER, Boaz, Ala. Filed June 8, 1920. Serial No. 387,327. 2 Claims. (Cl. 43—128.)

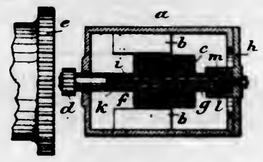


2. A bee smoker having a fire box or furnace provided with a terminal discharge pipe or outlet and an intermediate fuel supporting grate, and means for introducing an air blast into the furnace and provided with selective control devices whereby the blast may be introduced just below the plane of the discharge pipe or below the plane of the supporting grate.

1,386,284. [WITHDRAWN.]

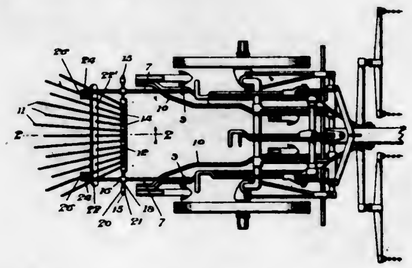
1,386,285. ELECTRIC STARTING-MOTOR. HERMANN STEINHART, Stuttgart, Germany, assignor to the Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Filed Dec. 12, 1919. Serial No. 344,500. 1 Claim. (Cl. 290—38.)

In combination with a flywheel of an internal combustion engine provided with gear teeth, an electric motor comprising a hollow shaft, a casing, a bolt fixed to the said casing and situated within the said shaft, a fixed abutment at the end of the said bolt, a movable abutment at an end of the hollow shaft, an armature and a pinion on the said



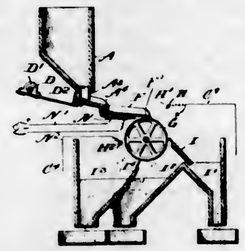
shaft, a field magnet for affecting the said armature, and a pressure spring arranged upon the said bolt and between the said abutments and operating to displace the armature with respect to the field magnet and to keep the pinion *d* out of engagement with the teeth on the said flywheel.

1,386,286. SOIL-PULVERIZER. HENRY STRIEGEL, Wilder, Kans. Filed July 27, 1920. Serial No. 399,313. 7 Claims. (Cl. 55—127.)



1. A soil pulverizer comprising a pair of rearwardly extending bars, a pair of longitudinally spaced transverse bars, rearwardly and downwardly extending teeth anchored to one transverse bar and slidable through the other, and means for attaching said transverse bars to the first named bars for the relative vertical adjustment of said transverse bars to change the angular position of said teeth.

1,386,287. APPARATUS FOR SEPARATING SUBSTANCES OF DIFFERENT DIELECTRIC CAPACITIES. HENRY M. SUTTON, WALTER L. STEELE, and EDWIN G. STEELE, Dallas, Tex. Filed Sept. 24, 1904. Serial No. 225,852. 43 Claims. (Cl. 83—49.)



1. In a dielectric separator, the combination with means for producing dielectric hysteretic impedance in the material to be separated, of a relatively movable non-repellent electro-static separating means, and means for separately collecting the separated material.

1,386,288. DENTAL SURGICAL INSTRUMENT. JAMES H. TAYLOR, Owensboro, Ky. Filed Oct. 25, 1920. Serial No. 419,203. 4 Claims. (Cl. 32—34.)



1. A dental surgical instrument comprising a pair of pivoted handle members, tooth clamping means carried by one of said members, and a cutting blade carried by the other member.

1,386,289. DENTAL SURGICAL INSTRUMENT. JAMES H. TAYLOR, Owensboro, Ky. Filed Oct. 25, 1920. Serial No. 419,204. 1 Claim. (Cl. 32—34.)



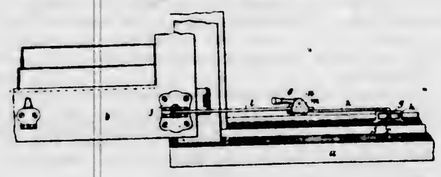
A dental surgical instrument comprising a pair of pivoted handle members, a jaw extending upwardly substantially at right angles from one of the handle members, a jaw for coaction with the first-mentioned jaw, and a cutting blade extending from the other handle member and curved upwardly and inwardly in advance of and in a line between the said jaws.

1,386,290. SAFETY-INDICATOR FOR RAILWAY-TRACKS. WILLIAM P. THOMSON, Forest Hills, Long Island, N. Y., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed Mar. 15, 1921. Serial No. 452,567. 15 Claims. (Cl. 238—229.)



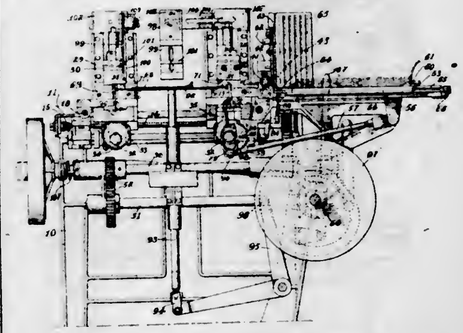
9. A device of the class described consisting of a body adapted to be interposed between rail ends and having a graded resistance to compressive forces.

1,386,291. SHUTTER-FASTENER. JAMES Y. VAN BLARCOM, Paterson, N. J. Filed Sept. 10, 1920. Serial No. 409,310. 3 Claims. (Cl. 292—262.)



1. In combination, the frame and a shutter hinged therein, an arm section connected to the shutter, and a fixed device on the frame forming a bearing on which the arm pivotally swings when the shutter is moved on its hinges, the arm being movable longitudinally of the pivot of said bearing to disengage it from said device and said arm and device having portions interlocking to prevent such movement of the arm in certain positions to which it swings on said pivot but clearing each other to permit said movement in another position to which the arm swings on said pivot.

1,386,292. CORNER CUTTING AND BENDING MACHINE. WILLIAM A. WEIGHTMAN and CHARLES H. NITSCH, Philadelphia, Pa., assignors to Stokes and Smith Company, Summerdale, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 26, 1919. Serial No. 326,496. 30 Claims. (Cl. 93—36.)



1. In a machine for operating on spaced portions of articles varying in size, a plurality of spaced operating elements, means for shifting said elements toward and from a central operating station to accommodate articles varying in size, means for feeding articles to said elements, and means for maintaining said feeding means in approximately fixed relation to the adjacent side of an article located in said operating station, regardless of the size of the article.

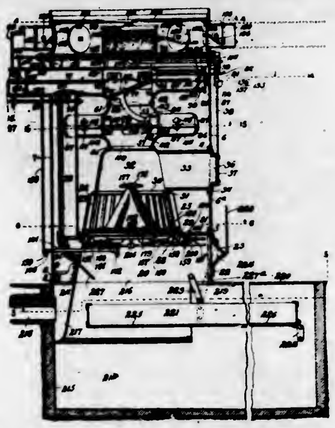
1,386,293. CENTRIFUGAL PUMP. ARTHUR W. WELLINGTON and ARTHUR F. RYAN, San Jose, Calif. Filed Nov. 1, 1920. Serial No. 421,088. 3 Claims. (Cl. 253—199.)



1. A pump mechanism comprising a pump head, a discharge casing column suspended therebelow, a pump

bowl supported by said discharge casing column, an impeller arranged in said bowl, and a flexible driving shaft operatively mounted with relation to said head and said impeller and unsupported against a swinging movement with respect to its normal vertical axis between said head and bowl.

1,386,294. HOT-AIR FURNACE. GEORGE FRANKLIN WENTZ, Lakewood, Ohio. Filed Apr. 11, 1917. Serial No. 161,223. 15 Claims. (Cl. 126—116.)



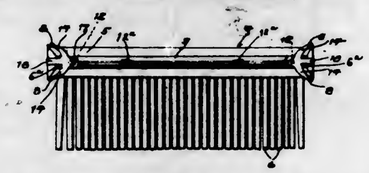
10. A hot air furnace provided with a fire pot tapering toward the upper end, a cone within the upper end tapering toward the upper end more rapidly than the fire pot and extending above the fuel level of the fire pot, a grate for closing the fire chamber, a gas burner at the lower end of the cone above the grate, and a supplemental grate introducible into the fire pot through the upper end thereof and of a size to surround the cone and be sustained thereby above the gas burned and constituting a supporting grate for garbage and other waste material.

1,386,295. CLOTHES-TONGS. MAX WENZEL, Kansas City, Mo. Filed Oct. 6, 1917. Serial No. 195,121. 1 Claim. (Cl. 68—6.)



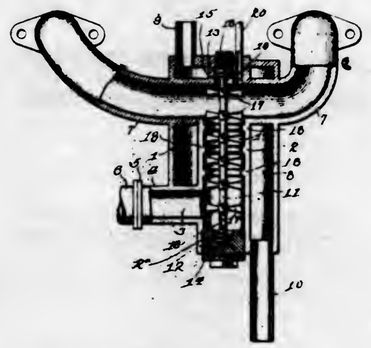
In clothes tongs, a pair of legs of duplicate form excepting the gripping end thereof, the inner face of each of said legs forming an obtuse angle longitudinally of the leg, the vertex of the angle of each of said legs facing the vertex of the angle of the opposing leg and in close proximity thereto, a cavity in the inner side of each of said legs at the vertex of the angle and reaching longitudinally in both directions therefrom, a plate in said cavities, a pin in each of said legs near the vertex of the corresponding angle and through said plate and hingedly connecting said legs so that when said tongs are closed the side of the angle reaching from the vertex to the gripping end of each of said legs is lying against the corresponding side of the opposing leg and when said tongs are open the side of the angle of each leg reaching from the vertex to the opposite end of the tongs is lying against the corresponding side of the opposing leg, a hole with a closed end in each of said legs between the vertex of the angle thereof and the gripping end of the tongs, said holes each counterbored, a pin in said holes, a compression spring on said pin and in the counterbores, the tension of said spring tending to hold the gripping end of said tongs open, and means on the the gripping end of the tongs to hold clothes.

1,386,296. HAIR-DRESSING DEVICE. LAURA M. WESSA, Middleport, Ohio. Filed Feb. 16, 1921. Serial No. 445,364. 6 Claims. (Cl. 132—21.)



5. A hair dressing device comprising an elongated comb constructed to conform to the contour of the head of the wearer, pins projecting from one side of the back of the comb adjacent the ends of said comb, a hair holding rod having oblong openings formed in its end portions, said openings being adapted to receive the pins of the comb, spring clamps carried by the ends of the comb and adapted to engage said pins, said rod being adapted to adjust itself through the medium of the oblong openings to accommodate a quantity of hair disposed between the rod and the back of the comb.

1,386,297. ATOMIZER AND VAPORIZER. IRVEN H. WILSEY, Chicago, Ill. Filed Feb. 21, 1919. Serial No. 278,374. 2 Claims. (Cl. 123—141.)

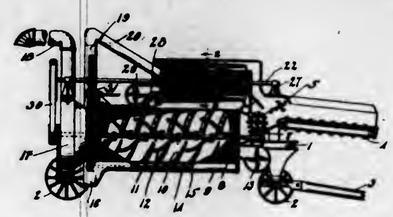


1. The combination with a tubular mixture passage, of a rotary mixing device in said passage having an axial shaft, and bearing supports for the ends of the shaft in opposite ends of the passage, one of said supports being of greater diameter than said device and removable to permit the bodily removal of said device through the end of the passage.

1,386,298. GRAIN-SEPARATOR. HARDIN E. WINSLOW, Spokane, Wash., assignor of one-half to Warren T. Winslow, Spokane, Wash. Filed Sept. 2, 1919. Serial No. 320,991. 1 Claim. (Cl. 130—16.)

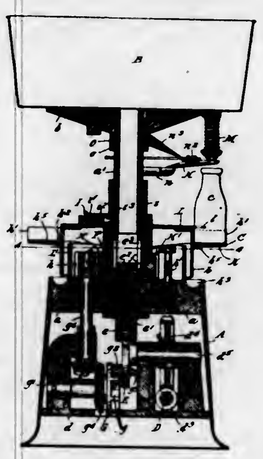
The combination in a grain separator with a longitudinal rotary screen and means for carrying straw therefrom, and a threshing device delivering to said screen, of a conveyer for transporting grain from said screen and a second rotary screen co-acting with the conveyer, means in said second screen to convey chaff through its forward

end to be returned by said threshing device to the first screen, an intermediate rotary screen concentric with and surrounding said second screen and increasing in



diameter toward its delivery end, a conveyer at said delivery end, and an outer rotary screen increasing in diameter toward its delivery end opposite the delivery end of the intermediate screen, for the purpose described.

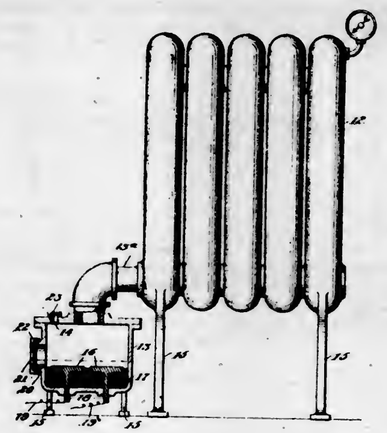
1,386,299. BOTTLE FILLING AND CLOSING MACHINE. KIRK K. WRIGHT, Buffalo, and ROBERT N. CUNDALL, Blasdell, N. Y., assignors to R. G. Wright & Co., Buffalo, N. Y. Filed Apr. 29, 1919. Serial No. 293,454. 16 Claims. (Cl. 226—75.)



1. In a receptacle filling machine, the combination of a receptacle filling nozzle, a rotatable table adapted to place receptacles carried thereon in operative relation to said nozzle to be filled, a driven shaft for actuating said machine, a cam on said shaft, a plunger connected to said table and engaging said cam whereby said table is intermittently raised and lowered, a driving member for rotating said table, and connections between said driving member and said cam for rotating said table.

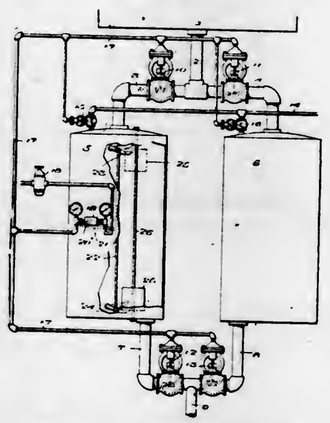
1,386,300. ELECTRIC HEATER. CHARLES A. XAARDELL, Utica, N. Y. Filed Oct. 12, 1920. Serial No. 416,524. 1 Claim. (Cl. 219—38.)

An electric heater comprising a radiator having a plurality of sections, combined with a liquid tight receptacle outside of and near the base of said radiator and with which said radiator sections communicate, said receptacle having a normally closed filling opening, insulating material in said receptacle, electrodes embedded in said insulating material and having exposed surfaces, and suitable electric connections to said electrodes, the electric



communication between said electrodes, to vary the heat to be generated, being governed by the amount of liquid in said receptacle, so that when the liquid is entirely evaporated the current is interrupted until the circuit is again closed by condensation.

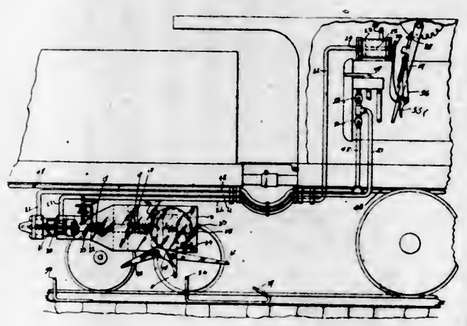
1,386,301. APPARATUS FOR TRANSFERRING LIQUIDS. SIDNEY T. ADAIR and HUGH C. FYANS, Au Sable Forks, N. Y.; Catherine Fyans administratrix of said Hugh C. Fyans, deceased. Filed Nov. 8, 1916. Serial No. 130,302. 12 Claims. (Cl. 137—68.)



2. In apparatus of the character described, the combination, with a container adapted to maintain liquid under reduced pressure, of a pair of receivers connected thereto for gravity flow of liquid from said container, each receiver being adapted to receive liquid from the container and to discharge liquid so received, valve means for controlling flow to and from said receivers, and mechanism

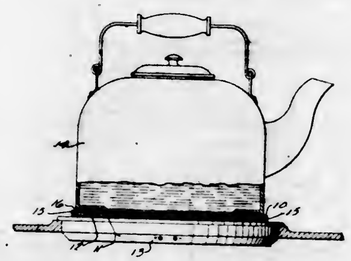
governing said valve means whereby the receivers can be worked in alternation, one filling while the other discharges.

1,386,302. MEANS FOR STOPPING RAILWAY-TRAINS AT DANGER-SIGNALS. EDWARD C. ALLEN, New Haven, Conn. Filed Sept. 15, 1920. Serial No. 410,428. 5 Claims. (Cl. 246—188.)



1. Means for stopping railway trains at danger signals including a cam block adapted to open the train line, a lever connected with said block and including an abutment arm and a tripper arm combined with an abutment and a tripper for actuating said arms.

1,386,303. HEAT-CONDUCTING DEVICE. PERCY A. E. ARMSTRONG, Loudonville, N. Y. Filed Mar. 2, 1920. Serial No. 362,891. 8 Claims. (Cl. 219—44.)



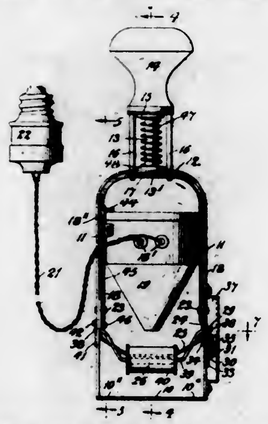
1. A readily deformable heat conducting device comprising an aggregate of small pieces of metal adapted to be interposed between a source of heat and an object to be heated.

1,386,304. OILING DEVICE FOR TURBINE-PUMPS. WILLIAM F. BARNICKOL and ALFRED W. ARCHER, Stockton, Calif., assignors to Sterling Iron Works, Stockton, Calif., a Corporation of California. Filed Feb. 4, 1920. Serial No. 356,166. 4 Claims. (Cl. 64—56.)

1. An oiling system for deep well pumps, comprising a casing, a driving shaft having a bore extending along the length thereof, bearings arranged along the lengths of the casings to support the shaft, and the shaft being provided with orifices extending between the bearing surfaces and bore of the shaft, a delivery tube extending down the well casing, and communicating with the bearing surfaces, and an oil supply connected with the bore at the upper end of the shaft and with the delivery tube.

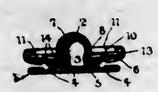


1,386,305. ELECTRIC SEALING DEVICE. CHARLES BARRETT, New York, N. Y. Filed Sept. 1, 1920. Serial No. 407,464. 7 Claims. (Cl. 120—116.)



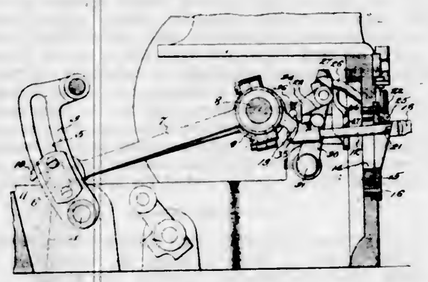
4. A device of the class described, comprising a frame provided with an upright slot and with a branch slot extending from a point between the ends of said upright slot, a receptacle movable up and down relatively to said frame and provided with a pin arranged to travel in said upright slot, a movable switch located at the junction of the two slots, to connect the upper portion of the upright slot either with the lower portion thereof or with said branch slot, a swinging frame connected with said receptacle and mounted to swing relatively thereto about a horizontal axis, said swinging frame having a pin adapted to travel either exclusively in the upright slot, or partly in the branch slot, according to the position of the switch, a die carried by said swinging frame and adapted to occupy a position either beneath the outlet of the receptacle or to one side thereof, a valve controlling said outlet and operated by the swinging movement of said die-carrying frame, a pivoted sector the ends of which project alternately into the path of the pin on the die-carrying frame, a spring connection between said sector and said switch, and means for holding said sector against accidental movement.

1,386,306. SNAP-FASTENER. CHARLES BAUM, Brooklyn, N. Y. Filed May 8, 1919. Serial No. 295,665. 2 Claims. (Cl. 24—218.)



1. In a snap fastener, the male member having an annular series of stitching holes through its base and thread receiving grooves in the exposed face of the said member, connecting said holes.

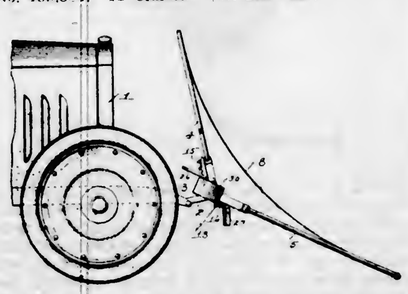
1,386,307. THREAD-CONTROLLING MECHANISM FOR SEWING-MACHINES. RUDOLPH BECKER, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Nov. 5, 1917, Serial No. 200,273. Divided and this application filed Nov. 25, 1918. Serial No. 263,990. 15 Claims. (Cl. 112—243.)



1. In a sewing machine having stitch-forming and work-feeding mechanism, in combination, a take-up, a nipper, and means for simultaneously varying the extent of the take-up's throw and the timing of the nipping action.

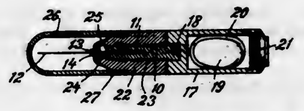
6. In a sewing machine, a main-shaft, stitch-forming mechanism, work-feeding mechanism, and thread-controlling mechanism including a nipper, said nipper having a clamping head actuated from said main-shaft, an adjustable abutment coöperating with the clamping head, a feed-regulator, and means governed by the feed-regulator for varying the position of the abutment relative to the clamping head.

1,386,308. SAFETY-FENDER FOR VEHICLES. CHARLES E. BEDAUX, Cleveland, Ohio. Filed Apr. 8, 1921. Serial No. 459,584. 12 Claims. (Cl. 293—25.)



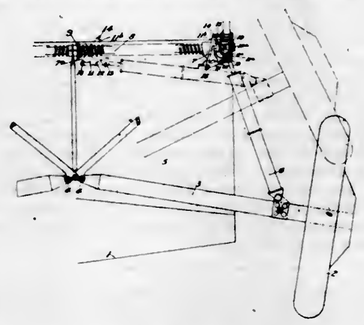
1. In a fender for vehicles; pairs of arms, the arms of one pair being swingably mounted respectively on relatively inclined axes adjacent one side of the vehicle and the arms of the other pair being similarly mounted adjacent the vehicle's other side; a flexible sheet carried by the free ends of the arms; means for swinging the arms of said pairs into diverging position.

1,386,309. DEVICE FOR REMOVING FOREIGN BODIES FROM THE EYE. CARROLL EDWARD BINGMAN, Washington, D. C. Filed Oct. 20, 1920. Serial No. 418,227. 1 Claim. (Cl. 128—357.)



An instrument of the character described embodying a centrally positioned fibrous member having a central longitudinal channel extending the greater portion of its length providing two filament grasping jaws, complementary receptacles cut part way into the faces of the jaws to form seats for the ends of the filaments, a barrel arranged upon the exterior of the jaws and means for tightening the jaws together and forcing the ends of the filaments down upon the seats.

1,386,310. ALIGHTING-GEAR OF AIRCRAFT. HAROLD BOLAS, Clifton, Bristol, England, assignor to George Geach Parnall, Park Row, Bristol, England. Filed Jan. 6, 1921. Serial No. 435,434. 2 Claims. (Cl. 244—2.)



1. Alighting gear for aircraft of a combined seaplane and aeroplane character, comprising in combination a float, two alighting wheels mounted on separate axles, said axles being pivotally mounted within said float, shock absorbing struts pivotally connected to said axles, means mounted on and controlled by a rotatable screw and pivotally connected to the upper end of said struts for simultaneously adjusting the position of the alighting wheels relative to the float.

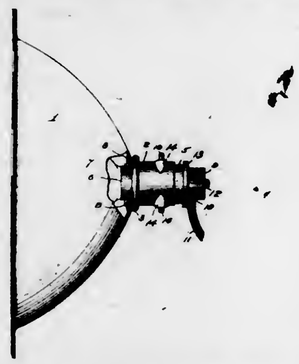
1,386,311. CULINARY UTENSIL. ELMER D. BROWN, Fort Worth, Tex. Filed Mar. 24, 1921. Serial No. 455,235. 1 Claim. (Cl. 294—53.)



A device of the class described comprising a fork having a shank with tines at one end and a handle at the other, said shank having a longitudinally extending slot at its junction with said tines, upstanding apertured flanges disposed on opposite sides of said slot, a coöperating fork having a short shank extending through the slot

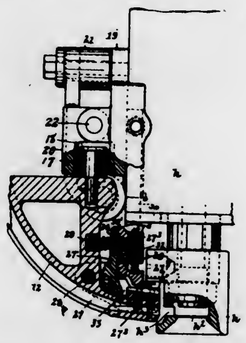
in said first mentioned shank, the shank of said short fork being twisted to provide for this passage, a pintle pivotally connecting said shank in said slot, said pintle extending through said apertured flanges, laterally extending spaced flanges carried by the shank of said first mentioned fork on its rear face near the handle thereof, a bell crank fulcrumed between said flanges and having an operating handle at one end, a rod connected at one end with the other end of said bell crank and at its other end with the terminal of the shank of the pivoted fork.

1,386,312. FOCUSING DEVICE FOR HEADLIGHTS. HERBERT WALDO BROWN, Ashland, Ohio. Filed Apr. 14, 1920. Serial No. 373,798. 2 Claims. (Cl. 240—44.)



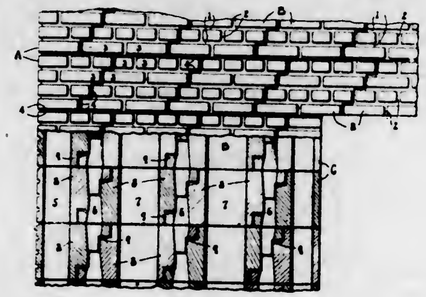
1. A bulb focusing device for automobile electric headlights employing a reflector body with a sleeve at its basic end, comprising a socket for an electric headlight bulb adapted to the interior of the sleeve, and an elastic clip or holding means carried by the sleeve in engagement with the outer wall of the socket, the sleeve being provided with circumferentially spaced passages for the ends of the clip, with said passages having outwardly directed lips for holding and guiding the ends of the spring clip and directing them into biting engagement with the lamp socket when in the sleeve.

1,386,313. BOTTLE-SEALING MACHINE. AMOS CALLESON, Brooklyn, N. Y. Filed Jan. 23, 1920. Serial No. 353,604. 19 Claims. (Cl. 226—88.1.)



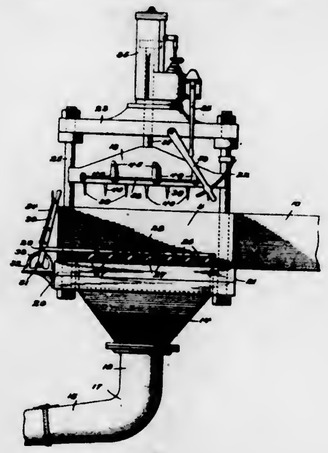
1. In combination, a closure delivery chute member, a closure receiving member, and means to support said members and move one repeatedly past and in closure-transferring relation to the other, one of said members being shiftable in said means with the other each time one of said members moves past the other.

1,386,314. BUILDING-BLOCK. ALBERT H. CARRIER, Asheville, N. C., assignor of one-half to Edwin W. Grove, St. Louis, Mo. Filed May 31, 1917. Serial No. 172,038. 3 Claims. (Cl. 72—36.)



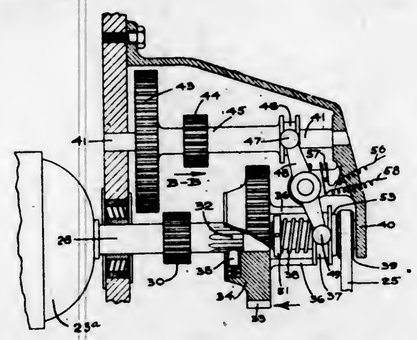
1. In an imitation brick structure, horizontal rows of building blocks each comprising a single block of material having in its front face horizontal and vertical grooves imitating the mortar receiving spaces between bricks, said block also having oppositely disposed stepped ends imitating extended bricks, only one of said stepped ends being in the form of inverted steps, the horizontal bottom faces of the inverted steps and the horizontal top faces of the upright steps being in alinement with said horizontal grooves, said horizontal top and bottom faces being formed at opposite ends of the horizontal grooves, and each of said horizontal top faces being in a horizontal plane lower than the horizontal bottom face of the inverted step at the opposite end of the horizontal groove.

1,386,315. ICE CRUSHING AND CONVEYING MECHANISM. JESSE H. CARY, Valdosta, Ga. Filed Nov. 8, 1919. Serial No. 336,619. 8 Claims. (Cl. 83—62.)



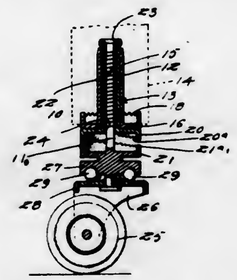
1. In a device of the class described for crushing and delivering ice the combination with a receptacle open at one end adapted to receive and hold a block of ice, the bottom of said receptacle being made up of a series of parallel sections pivoted at their ends and adapted to be turned edgewise to open the bottom, a chute for conveying blocks of ice into said receptacle through its open end, a crushing block having downwardly projecting spikes adapted to enter said receptacle from the top and split or break said block of ice, a flexible and adjustable conveying chute or pipe for the crushed ice and means for turning said sections on their pivots to dump the ice into said chute.

1,386,316. ENGINE-STARTING SYSTEM. WILLIAM A. CHRYST, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed Sept. 5, 1916. Serial No. 118,458. 15 Claims. (Cl. 290—31.)



6. In an engine starting system, the combination with an engine; of an electric machine capable of acting as a starting device; means for imparting motion to the electric machine; change speed gearing between the electric machine and the engine capable of rearrangement to effect a plurality of gearing combinations; and means acting automatically upon the operation of the electric machine as a motor positively to effect a gearing connection of a certain combination between the motor and engine, said automatic means being capable when the engine becomes self-actuating of rearranging the change-speed gearing whereby a different gearing combination is effected when the engine drives the machine as a generator.

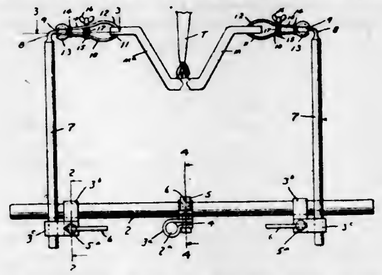
1,386,317. ADJUSTABLE CASTER. WILLIAM A. CLAASSEN, Fond du Lac, Wis. Filed Mar. 24, 1921. Serial No. 455,048. 2 Claims. (Cl. 16—19.)



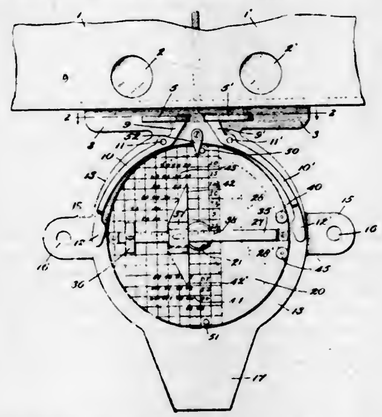
1. A caster having a spindle, a bearing member movably fitted thereon, means to vary the height of the bearing member on the spindle through movement of the bearing member relatively to the spindle, and means to urge said spindle and bearing member into coupled relation.

1,386,318. UNIVERSAL WELDING-CLAMP. RICHARD COWAN, Climax, Minn. Filed Dec. 19, 1919. Serial No. 346,070. 2 Claims. (Cl. 113—104.)

1. A welding clamp comprising a rod and a supporting clamp for adjustment of said rod on a horizontal axis, clamps mounted on the end portions of said rod, upright standards having bearings in said clamps and mounted to rotate and slide vertically therein, the upper ends of said standards having inwardly turned goose necks formed thereon and jaws mounted at one end on said goose necks and extending inwardly in opposing relation for supporting the articles to be welded, and said jaws having universal adjustment on said goose necks to allow the accurate fitting together of the edges of the articles to be welded.

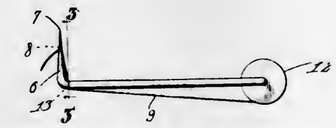


1,386,319. AUTOMATIC WEIGHING-MACHINE. EDGAR H. CRAIG, Rockdale, Tenn. Filed July 20, 1920. Serial No. 397,666. 6 Claims. (Cl. 249—19.)



1. In an automatic weighing machine the combination of a receptacle to hold the material to be weighed; a pivoted receiver adapted to turn through an angle of substantially one hundred and eighty degrees located beneath said receptacle; a disk provided with a scale beam on which said receiver is mounted; a valve controlling the passage of material from said receptacle to said receiver; means moved by the turning of said receiver for controlling the flow of material into said receiver; and a spout into which said receiver empties in its turning movements, substantially as described.

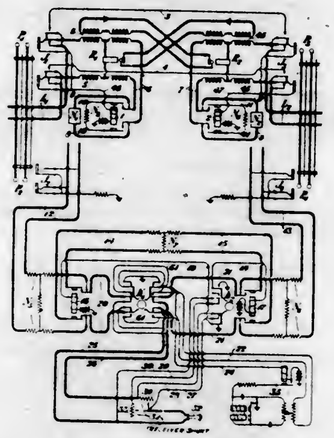
1,386,320. AWL. JACOB DANIELSON, Butte, Mont. Filed Sept. 13, 1920. Serial No. 409,865. 1 Claim. (Cl. 223—37.)



An awl including a body portion having a right angled extremity, the right angled extremity being tapered

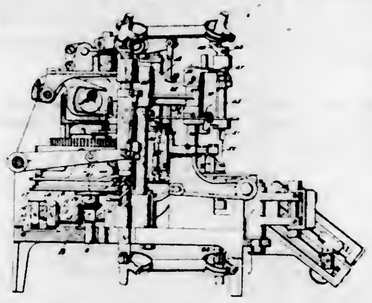
throughout its length to provide a piercing end, said piercing end having an eye formed therein, said body portion having an eye formed adjacent to the right angled end, the opposite extremity of the handle portion extending at right angles thereto, and extending laterally with respect to the first mentioned right angled portion, the right angled portion adapted to provide a combined handle and spool support.

1,386,321. TELEPHONE REPEATER EQUIPMENT. CHARLES S. DEMAREST, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed May 9, 1919. Serial No. 295,912. 3 Claims. (Cl. 179—170.)



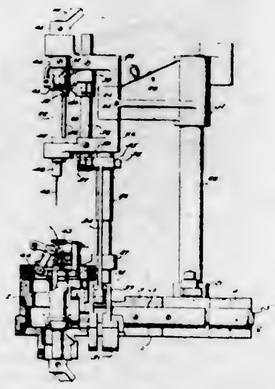
1. A transmission circuit including lines interconnected by repeater apparatus, net-works normally connected to said repeater apparatus for balancing said lines, apparatus for testing said repeater apparatus, networks associated with said repeater apparatus for balancing said testing apparatus, and means responding when said testing apparatus is connected to said repeater apparatus for disconnecting said first-mentioned networks from said repeater apparatus and for connecting said second mentioned networks thereto.

1,386,322. LOOPER MECHANISM FOR SEWING-MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Dec. 31, 1915, Serial No. 69,644. Renewed Jan. 7, 1921, Serial No. 435,761. Divided and this application filed Dec. 17, 1918. Serial No. 267,103. 12 Claims. (Cl. 112—157.)



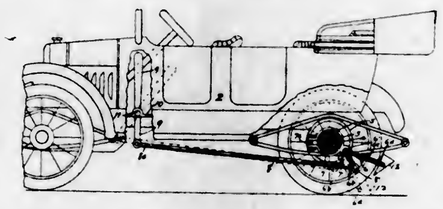
1. In a sewing machine, in combination with a needle, a looper mounted for bodily endwise and sidewise movements, means including a toggle-device for imparting to the looper one of said movements, and a connection between an element of said toggle device and the looper for imparting to the latter the other of said movements.

1,386,323. NEEDLE-BAR-OPERATING MECHANISM. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Dec. 31, 1915, Serial No. 69,644. Divided and this application filed Dec. 17, 1918. Serial No. 267,104. 6 Claims. (Cl. 112—221.)



1. In a sewing machine, in combination, a work-support, a needle-bar sustained at one side of the work-support and carrying a needle, a rotary crank disposed at the opposite side of the work-support and movable on an axis transverse to said needle-bar, a stud with which the needle-bar is connected and with which it performs reciprocatory movements in unison, and a pitman connected at its opposite ends to said crank and said stud and between its ends being free of connection with moving parts of the machine.

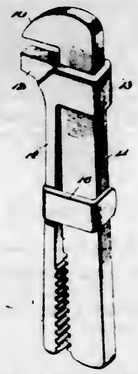
1,386,324. SAFETY-STOP FOR VEHICLES. JAMES D. FARMER, Brownville, N. Y. Filed Nov. 4, 1919. Serial No. 335,617. 1 Claim. (Cl. 188—4.)



In a safety stop for vehicles, the combination with the operating rod, of a rocking member disposed transversely at the rear of the vehicle, a pair of clamps for pivotally securing said member to the rear axle, the medial portion of said member comprising a crank to which said rod is attached, the opposite ends of said member comprising similar cranks disposed concentric to the medial crank which extends across the outer rear faces of the corresponding rear wheels, and a block mounted on each of said end cranks in the paths of said wheels.

1,386,325. WRENCH. ANDREW S. FISHER, Altoona, Pa. Filed Oct. 16, 1919. Serial No. 331,052. 2 Claims. (Cl. 81—130.)

1. A wrench including a fixed jaw having a shank, and a movable jaw slidable upon the shank of the fixed jaw to coöperate therewith and provided with a shank opposed to a face of the shank depending from the fixed jaw, the movable jaw being also mounted to rock transversely to the fixed jaw whereby the shank of the movable



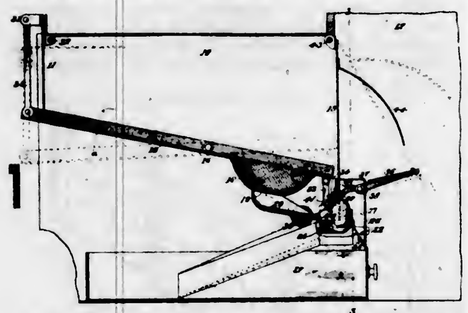
jaw may be swung transversely across said face of the shank of the fixed jaw and said shanks being provided with coacting means whereby the shank of the movable jaw may be swung for adjusting the movable jaw with respect to the fixed jaw.

1,386,326. TROLLEY-WIRE SPLICE. JAMES J. FISHER, Junior, W. Va. Filed Mar. 9, 1921. Serial No. 451,031. 7 Claims. (Cl. 191—44.



1. A splice of the character described including a spliced sleeve formed of companion sections, and coacting means upon the sections abutting for rigidly coupling the sections against endwise pull.

1,386,327. TRAP-NEST. ALBERT O. FORSTER and PERCY M. FORSTER, Berkeley, Calif. Filed Apr. 10, 1919. Serial No. 288,975. 6 Claims. (Cl. 119—47.)



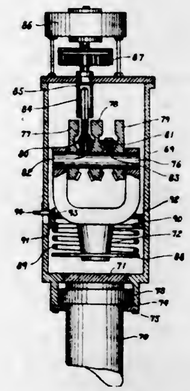
1. A trap nest comprising a housing, an entry opening provided with a normally open door, a pair of exit openings provided with doors, one of the doors being normally locked and the other unlocked, a nest within the housing, an egg tray in communication therewith, means whereby the presence of a hen within the housing will close the entrance door, means whereby the presence of an egg within the tray will lock the normally unlocked exit door and unlock the other exit door, the latter means including locking mechanism normally arranged to lock one of the said exit doors and actuated by the egg to another position to unlock the said normally locked exit door and lock the other exit door, means for automatically locking the entry door closed, and means for releasing the entry door operable exteriorly of the housing.

1,386,328. HATPIN. WILLIAM H. FREDERICK, Earleigh Heights, Md. Filed Sept. 18, 1920. Serial No. 411,057. 1 Claim. (Cl. 132—72.)



In a device of the class described including a hatpin having a ball formed on one end, a locking member comprising a concavo-convex disk having a centrally located aperture, a flange extending from said disk and adapted to be attached to a hat, spaced apart wires extending across said aperture and having their ends fixed to the convex face of the disk.

1,386,329. MECHANISM FOR CONVERTING ROTARY INTO RECIPROCATORY MOTION. RUDOLF GOLDSCHMIDT, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Charlottenlund, Denmark, a Company of Denmark. Filed Jan. 10, 1921. Serial No. 436,206. 12 Claims. (Cl. 74—14.)

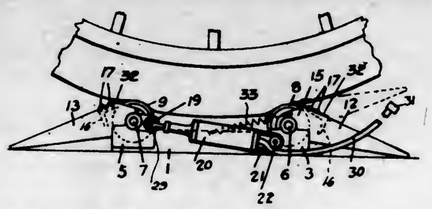


1. Mechanism for converting rotary into reciprocatory motion, wherein continued progressive movement step-by-step in one direction of the path of reciprocation is obtained, comprising a reciprocatory member, a centrifugal weight pivoted thereto, means for rotating said weight and means for impressing a unidirectional impulse upon the reciprocatory member, so that it travels or progresses step-by-step in one direction.

1,386,330. PUMPING DEVICE. JOHN WARWICK GORDON, St. Catharines, Ontario, Canada. Filed Aug. 6, 1920. Serial No. 401,655. 1 Claim. (Cl. 230—27.)

A pumping device for automobiles comprising a supporting base, a pair of shafts journaled therein, a roller journaled upon each shaft, said rollers spaced apart together to form a support for an automobile wheel, a crank arm secured to one of the shafts, a pump pivoted at one end of the supporting base and having its pump rod pivotally connected to the crank arm, an inclined tread plate swung upon the other shaft and adapted to rest upon the ground at one end and to overlie the outer peripheral portion of the adjacent roller whereby the tire revolving in a

forward direction runs free of the inner end of the tread plate and frictionally engages such inner end when reversed whereby the tread plate is carried upward as

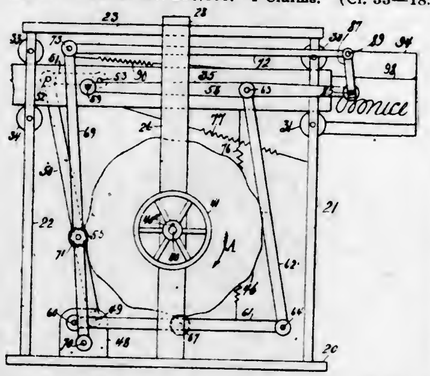


the direction of the rotation of the tire is reversed and into engagement with the tire to form a traction grip to carry the automobile wheel off the supporting rollers.

1,386,331. FERTILIZER. JOSEPH C. HECKMAN, Avalon, Pa. Filed Sept. 24, 1920. Serial No. 412,580. 14 Claims. (Cl. 71—9.)

1. The process that comprises dissolving iron oxid in sulfuric acid and substantially neutralizing the solution with granulated blast furnace slag.

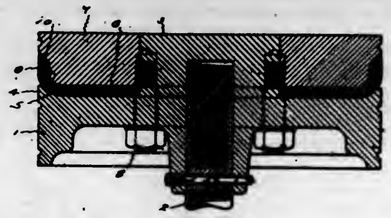
1,386,332. WRITING AND DRAWING APPARATUS. JAMES G. HENDRICKSON, Bayonne, N. J. Filed Mar. 29, 1919. Serial No. 286,200. 4 Claims. (Cl. 33—18.)



1. In an apparatus the combination of a slide bar, a rotatable cam disk for the apparatus, the rotations of the disk causing the slide bar to move in straight translation, a fulcrum pin on the bar, a pencil lever supported on the pin, a second rotatable cam disk for the apparatus, the rotations of the latter disk causing the pencil lever to swing on its fulcrum pin and marking means carried on the pencil lever to mark on an object while the cam disks are being turned.

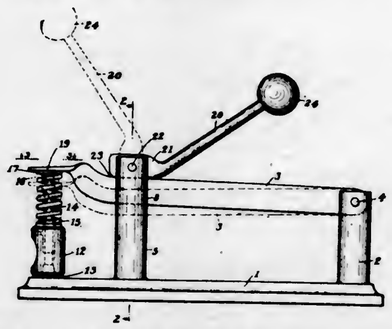
1,386,333. PISTON FOR OXYGEN-COMPRESSORS. EBENEZER HILL, Norwalk, Conn. Filed Apr. 5, 1921. Serial No. 458,849. 1 Claim. (Cl. 103—63.)

A piston for an oxygen compressor comprising a piston head having a lip with an outwardly curved inner wall around the edge of its wearing face, a cup packing formed of indurated fiber which expands when moistened and contracts when dried fitting the working face of the head, and a packing plate with a curved inner corner fitted within and protecting the cup packing, fastened to the dead, the space between the outwardly curved inner wall of the lip on the head and the curved inner corner of the packing plate being shaped to direct the edge of the cup so that it will extend longitudinally of the piston without crushing at the bend when the cup becomes moistened and expands, and when the cup dries permit it to contact without breaking at the bend and direct the edge of the cup radially outward so it will keep close



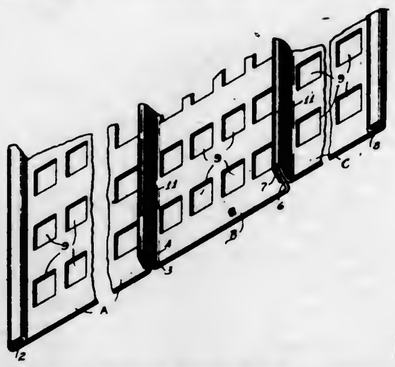
contact with the wall of the cylinder in which the piston operates.

1,386,334. MACHINE FOR COMPRESSING VALVE-SPRINGS. G CLIFFORD HILL and FRANK COOPER, Seattle, Wash. Filed May 4, 1920. Serial No. 378,778. 7 Claims. (Cl. 29—86.3.)



1. A tool of the class described, including a base plate, a supporting post arranged at one end thereof, a lever pivotally connected to said post and normally disposed in a horizontal position, a guide post carried by the base and embracing said lever, the outer end of said lever being disposed at right angles and provided with spaced arms and means for reciprocating said lever in the guide post.

1,386,335. METHOD OF FORMING AND CONSTRUCTING THE MESHED ELEMENTS OF SEPARATOR-SIEVES. DANIEL E. HOFFMAN, Plymouth, Ohio. Filed Oct. 14, 1919. Serial No. 330,579. 15 Claims. (Cl. 113—116.)



1. The herein described method of constructing a sieve for threshing machines in sections consisting of forming a meshed blank from sheet metal, then folding the blank at one edge upon itself leaving a space between the fold, then turning the folded portion at right angles to the body portion, then turning the opposite edge of the blank at right angles to conform and coincide with the right angled folded opposite edge portion of the blank, then connecting a predetermined number of the folded blanks together by inserting the turned angular edge of one of the blanks in space between the next succeeding or preceding angularly related folded portion of the adjacent meshed blank.

1,386,336. DRAFT FOR TRACTOR-PLOWS. LOUIS M. HOFTRUP, Elmira, N. Y. Filed Dec. 16, 1920. Serial No. 431,211. 7 Claims. (Cl. 97—7.)

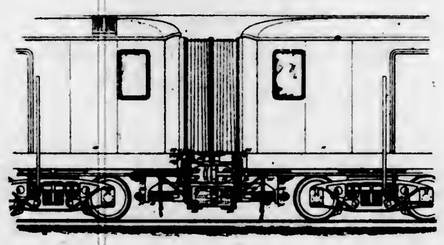


1. A draft device for plow beams comprising disks adapted for rigid attachment to the beams, a connecting member having a circular body within which the disks are normally positioned and resilient journaling connections between said disks and body.

1,386,337. CARBON-REMOVER. GEORGE D. HOOVER, Des Moines, Iowa. Filed Mar. 11, 1920. Serial No. 365,048. 1 Claim. (Cl. 87—5.)

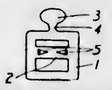
A carbon remover, comprising ether, denatured alcohol, naphthalene, and ammonia water in substantially the proportions of two and one-half ounces, three and one-half ounces, one ounce and ten ounces respectively.

1,386,338. AUTOMATIC AIR-COUPLING. EUGENE L. HORTON, San Francisco, Calif. Filed Jan. 14, 1920. Serial No. 351,453. 6 Claims. (Cl. 285—24.)



1. In an air and like coupling of the character described, flat abutting heads with connecting fluid passages, hangers suspended from the car and having the lower ends lying horizontally curved into arcs and serving to support the coupling heads and allow for horizontal adjustment, and spring means in conjunction with said hangers to permit vertical adjustment of the heads while supported thereby.

1,386,339. ONE-PIECE BUTTON AND BUCKLE. ERNEST A. ESSMUELLER and LEWIS D. HUGGINS, St. Louis, Mo. Filed Mar. 29, 1920. Serial No. 369,552. 2 Claims. (Cl. 24—73.)



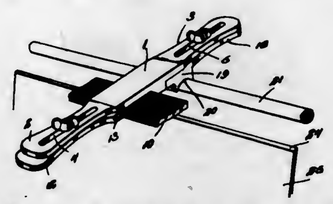
1. The combination of a strap having a button hole at one end, a one piece buckle and button having in its buckle portion a bar intermediate its ends, the opposite end of the strap being clenched to said bar, the button being spaced from the buckle portion by a reduced neck bent slightly outwardly at its outer end to offset a portion of the button from the longitudinal axis of the buckle portion, the outer part of the button lying substantially in the plane of the buckle portion.

1,386,340. FILTERING APPARATUS. ROBERT WÜSTER, Dassel, Germany. Filed Aug. 2, 1920. Serial No. 400,828. 4 Claims. (Cl. 210—112.)



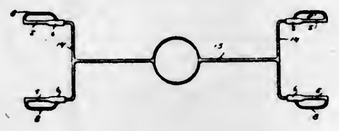
1. A filtering apparatus comprising a pair of telescoping receptacles fitting one within the other in an air-tight manner and adapted to receive one the liquid to be filtered and the other one the filtered liquid and movable relatively to each other, the receptacle designed to receive the liquid to be filtered having a filter formed in its wall.

1,386,341. FILE-HOLDER. CHARLES KAUSEN, Pasadena, Calif. Filed Nov. 12, 1920. Serial No. 423,624. 4 Claims. (Cl. 29—80.)



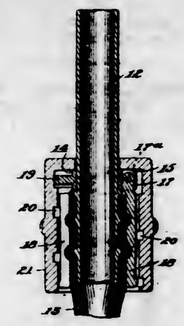
1. A file holder comprising a bar having a fixed jaw and terminal handles, and adjustable members on said bar, one having a jaw for coöperation with said fixed jaw to clamp a file between them and the other having a guide member whereby the holder may be mounted to reciprocate on a suitable support.

1,386,342. SAFETY APPLIANCE. GEOFFREY J. LETCHWORTH, Buffalo, N. Y. Filed Apr. 4, 1919. Serial No. 287,440. 1 Claim. (Cl. 74—33.)



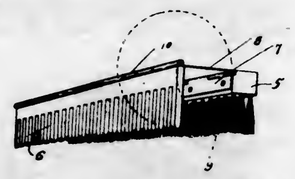
A safety appliance adapted to be attached to a tool handle and consisting of a unitary structure having a handle portion, a guard portion and a socket portion, the guard being arranged adjacent to the handle and in interspaced relation therewith and being secured at one end to the outer end of the handle and at the other end to the socket portion, the socket portion being a continuation of the handle and being recessed at its end to form a socket for the reception of the end of a tool handle.

1,386,343. HOSE-CLAMP. LEMUEL LLOYD, New York, N. Y., assignor to Margaret R. Elkin, New York, N. Y. Filed Mar. 1, 1920. Serial No. 362,609. 3 Claims. (Cl. 285—84.)



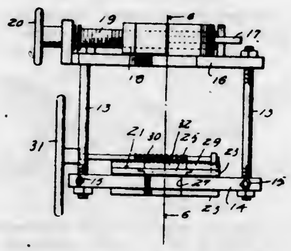
1. The combination with a pipe or delivery nozzle, of a sleeve or collar attached thereto and provided with outwardly projecting slitted lugs, and clamping arms having pins adapted to be engaged with said lugs which latter, when closed together, will pivotally secure the said clamping arms in place.

1,386,344. COMBINATION COMB AND BRUSH. HALVOR A. LUND, Warren, Ariz. Filed July 22, 1920. Serial No. 398,069. 2 Claims. (Cl. 132—88.)



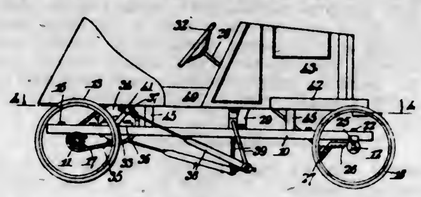
1. A device of the class described comprising a brush including a back and bristles depending therefrom, and a comb hinged to the one side edge of said back and adapted to be positioned in spaced relation to the bristles when set for use.

1,386,345. COMBINATION-WRENCH. WARREN W. MCGOWAN, WILLIAM A. HELLER, and STEPHEN J. TIERNEY, Okmulgee, Okla. Filed May 26, 1920. Serial No. 384,371. 2 Claims. (Cl. 81—119.)



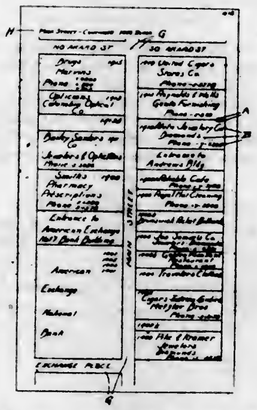
1. A wrench comprising upper and lower plates, rods connecting the plates in spaced relation, adjustable holding jaws carried by the upper plate for gripping a pipe section and capable of moving transversely of the upper plate, guides for said jaws and a wrench element carried by the lower plate to engage and turn the companion pipe section.

1,386,346. COMBINATION-VEHICLE. RUDOLPH A. MACK, Gallipolis, Ohio. Filed June 26, 1919. Serial No. 306,941. 9 Claims. (Cl. 208—118.)



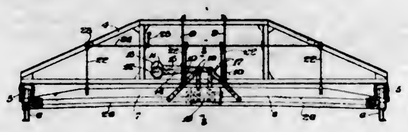
1. In a device of the class described, a frame, drive and steering axles on said frame, a transmission shaft on said frame, cranks on said shaft, one of said cranks being disposed inwardly from the ends of the shaft and in the longitudinal center of the frame, the other of said cranks being located at the ends of said shaft, said central and end cranks adapted selectively to be engaged with different types of propelling apparatus, and a gear on said shaft operatively connected with said drive axle.

1,386,347. STREET-DIRECTORY. FRED N. MARSHALL, Dallas, Tex. Filed May 28, 1920. Serial No. 385,015. 2 Claims. (Cl. 283—34.)



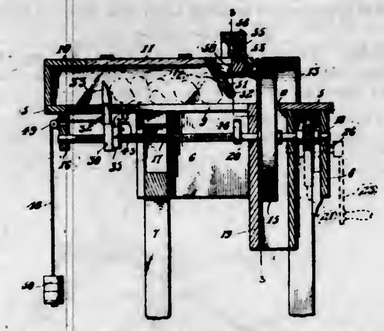
1. A street directory consisting in a compilation in book form of pages diagrammatically outlining the position of various business houses located within the area covered by such pages, each page representing one block, the pages being arranged in alphabetical order by streets, the diagram of each business house in the various pages disclosing the nature of the business, street number, and phone number, in combination with a separate alphabetical index of persons and firms within the bounds of the district covered by the directory and giving the street addresses, whereby a convenient cross index is provided.

1,386,348. STRIKE-OFF FOR ROAD-FINISHING MACHINES. GLENWAY MAXON, Jr., Milwaukee, Wis. Filed Aug. 21, 1920. Serial No. 405,082. 4 Claims. (Cl. 94—45.)



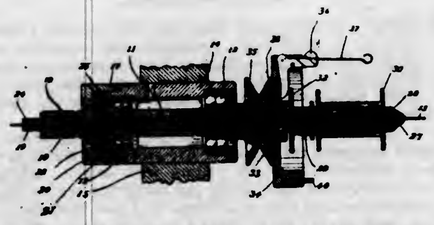
1. In a road finishing machine, a strike off device comprising a plurality of reciprocating strike off members, and means for moving said members transversely of the roadway toward and away from each other.

1,386,349. FRUIT AND VEGETABLE CUTTER. GEORGE MODNICKI, Toledo, Ohio. Filed May 11, 1921. Serial No. 468,502. 5 Claims. (Cl. 146—11.)



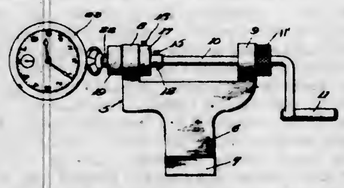
1. In combination with a rotatable cutter and means for feeding vegetables thereto, means for simultaneously operating said cutter and said feeding means, of means to automatically render said feeding means inoperative upon approach of said feeding means to a point adjacent said cutter, said feeding means embodying a pair of split nut members, a feed screw, means to normally hold said nut members in engagement with said screw, and means rotatable with the screw and engageable with said retaining means to release the latter.

1,386,350. SERVING-SPINDLE. GEORGE M. MONTGOMERY, Windsor Locks, and GEORGE L. MASON, Warehouse Point, Conn., assignors to The J. R. Montgomery Co., Windsor Locks, Conn., a Corporation. Filed Oct. 20, 1919. Serial No. 331,816. 14 Claims. (Cl. 28—6.)



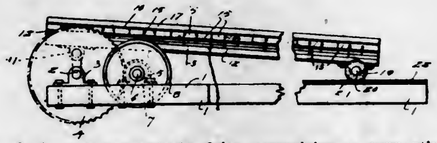
8. A serving spindle having a non-rotatable longitudinally movable thread guide, a spindle journaled on said thread guide, a flier carried by said spindle, a spool carrying sleeve journaled on and movable longitudinally of said spindle and adapted to frictionally engage a portion of said thread guide, means carried by said flier for automatically controlling the friction between said sleeve and thread guide, and means for moving the guide longitudinally to change the tension of the strand.

1,386,351. WATCH-WINDING ATTACHMENT. ELMER C. NIELSEN, Rawlins, Wyo. Filed Nov. 14, 1919. Serial No. 338,066. 3 Claims. (Cl. 81—7.5.)



1. A watch winder comprising a standard having alined barrels, a crank including a shaft received in one of said barrels, means retaining said shaft against axial displacement toward the other barrel, a winding arbor mounted in the other barrel and having means retaining the same against axial displacement toward the crank shaft, and cooperating means carried by the shaft and arbor for detachably associating the two in driving relation.

1,386,352. CONCENTRATE-DRIER. JONAS NORBERG, Latouche, Alaska. Filed Apr. 4, 1918. Serial No. 226,790. 2 Claims. (Cl. 34—38.)



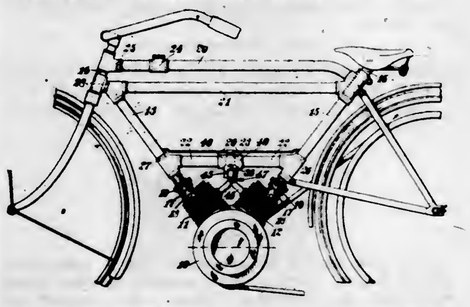
2. An ore concentrate drier comprising a supporting structure having rails, an inclined drier pan positioned above said supporting structure and including a bottom plate, an electric heater secured to the under face of said bottom plate to supply heat thereto, a transverse shaft mounted beneath the lower end of said drier pan and heater, wheels mounted on said shaft and resting on said rails whereby the drier pan may travel longitudinally of said supporting structure, a crank shaft mounted transversely beneath the upper end of said drier pan and heater, an operating shaft, mounted on said supporting structure, and driving connection between said operating shaft and said crank shaft to impart a jogging movement to said drier pan.

1,386,353. SAFETY-RAZOR. EDWARD P. NORTON, Oakland, Calif. Filed Feb. 25, 1920. Serial No. 361,112. 1 Claim. (Cl. 30—12.)



A safety razor comprising a head consisting of a sheet metal blank folded upon itself to provide inner and outer blade gripping jaws, and having extensions forming arms projecting rearwardly from the extremities of the outer jaw across the ends of the inner jaw, a centrally apertured yoke having its ends connected to the said arm, a handle projecting from the inner jaw and passing loosely through the central aperture of the yoke, and a nut threaded on the handle and engaging the central portion of the yoke, whereby to draw the outer jaw inward to clamp a blade disposed between the two jaws.

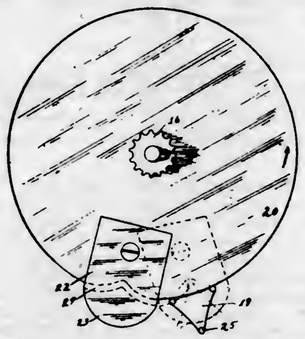
1,386,354. MOTOR-VEHICLE. JOSEPH GLADSTONE OWEN, Brighton, England. Filed Jan. 26, 1921. Serial No. 440,191. 11 Claims. (Cl. 180—33.)



9. In a motor vehicle, in combination, two downwardly converging vehicle frame members, and a motor having

two cylinders secured together at an angle, said cylinders forming continuations respectively of said frame members to support the frame.

1,386,355. INTERMITTENT-MOTION DEVICE. MILTON L. PARENT, Marshalltown, Iowa. Filed July 6, 1920. Serial No. 394,335. 4 Claims. (Cl. 74—41.)



1. In a device of the class described, a fly wheel, an intermittent sprocket shaft rotatably mounted and mounted for adjustment circumferentially of said fly wheel, an intermittent movement member having three sides shaped to conform to the periphery of the fly wheel, projecting pins at the corners of said member, said fly wheel having in its periphery a cam-shaped slot deepest at its central portion, and a plate mounted on said cam wheel, having a registering cam slot and having a curved outer edge on which said pins are adapted to travel.

1,386,356. ELECTRIC HEATER. WILLIAM E. PASIK, De Kalb, Ill. Filed Jan. 19, 1920. Serial No. 352,470. 4 Claims. (Cl. 219—34.)



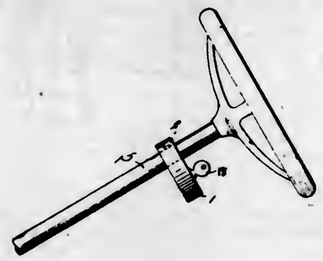
1. In an electric heater, a hollow cylindrical metallic body, a sleeve of non-electric conducting material arranged in the body, and a longitudinal electric resistance wire arranged in the sleeve in spaced relation to the inner surface thereof.

1,386,357. TURNED SHOE AND METHOD OF MAKING THE SAME. ELLEN M. PATTON, Cincinnati, Ohio. Filed Oct. 14, 1920. Serial No. 416,919. 6 Claims. (Cl. 36—16.)



1. A shoe having an outer sole and a vamp, both having reflexed margins, said reflexed margins having their edges in substantial alinement and being of substantially equal widths, an outer row of stitches passing through and uniting said reflexed margins substantially at an equal distance from the edges thereof, an inner sole having its marginal portion fitted between the vamp and the reflexed portion thereof, and an inner row of stitches passing through the vamp, both soles and both reflexed margins and securing all of said portions together.

1,386,358. LOCK. AMEL L. PAULSON, McCook, Nebr. Filed Oct. 6, 1919. Serial No. 328,855. 2 Claims. (Cl. 70—14.)



1. In a noiseless lock, the combination of an outer casing, a reinforcing block in said casing, said block having an aperture for removably attaching the device to the article to be locked, a bolt adapted to be moved to a position to project into the aperture when in locked position, a plate to which said bolt is attached, springs bearing against said plate and tending to press the bolt toward locked position, a key operated tumbler operatively connected with the bolt, and resilient means in constant operative connection with said tumbler and tending to press them toward locked position at all times, whereby the lock is prevented from rattling under vibration.

1,386,359. METHOD OF MAKING DRY YEAST. WILLIAM B. D. PENNIMAN, Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass., a Corporation of New York. Filed Mar. 6, 1918, Serial No. 220,801. Renewed June 10, 1921. Serial No. 476,604. 3 Claims. (Cl. 99—10.)

1. In the process of making dry yeast, the improvement which comprises the mixing of live yeast cells which have been separated from the culture with soluble and insoluble filler in a moist state, and subjecting the material to agitation, and drying *in vacuo* at a low temperature, *i. e.*, sufficiently low to prevent rapid fermentation.

1,386,360. METHOD OF MAKING DRY YEAST. WILLIAM B. D. PENNIMAN, Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass., a Corporation of New York. Filed Mar. 6, 1918. Serial No. 220,802. 5 Claims. (Cl. 99—10.)

5. In the art of making commercial dry yeast, the improvement which consists in mixing live yeast cells, separate from the mash, with a filler in powdered form, an inorganic salt and water, and subjecting the mixture to drying *in vacuo* at a low temperature as substantially 50 to 60°.

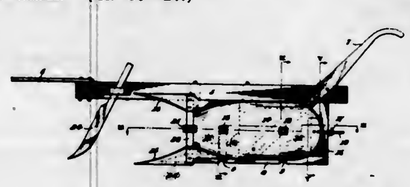
1,386,361. METHOD OF MAKING DRY YEAST. WILLIAM B. D. PENNIMAN, Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass., a Corporation of New York. Filed Mar. 6, 1918, Serial No. 220,803. Renewed June 10, 1921. Serial No. 476,605. 3 Claims. (Cl. 99—10.)

1. In the art of making dry commercial yeast, the improvement which consists in making a liquid culture of alcoholic yeast, adding thickening material to the fermented liquid and granulating the mixture and desiccating it *in vacuo* until it contains about ten per cent. moisture.

1,386,362. ARTICLE OF MANUFACTURE FOR PREVENTING ACCUMULATION OF MOISTURE UPON GLASS SURFACES. MARY COWPER PITTMAN, Washington, D. C. Filed Sept. 7, 1920. Serial No. 408,463. 2 Claims. (Cl. 134—27.)

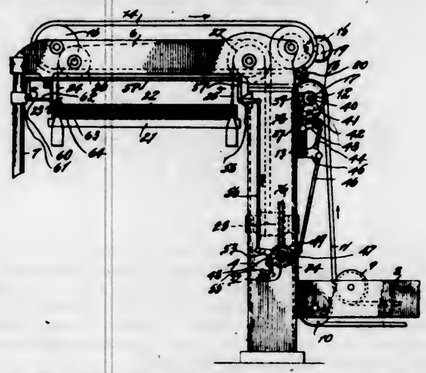
2. A composition of matter comprising a pulp of cured tobacco leaves saturated with a mixture of glycerin and tobacco juice in solution.

1,386,363. REVERSIBLE PLOW. STJEPAN POSAVAC, Chicago, Ill. Filed Aug. 14, 1919. Serial No. 317,568. 1 Claim. (Cl. 97—27.)



In a reversible plow, a land side, a double mold board having its forward portion disposed contiguous to the land side and extending rearwardly in divergent relation thereto, spaced supporting links having horizontally alined pivotal connections at one end with the land side, the opposite ends of the links being pivotally connected with the mold board permitting the latter to swing with the links from one side of the land side to the other or independently of said links, said links being disposed in upwardly and outwardly inclined positions with respect to the land side when the mold board is operatively positioned, and means detachably engaged with the opposite extremities of the mold board to maintain the latter in operative association with the land side.

1,386,364. PILE-DELIVERY GOVERNOR. CARL G. PRITCHARD, Warren, Ohio, assignor to The Harris Automatic Press Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 20, 1919. Serial No. 346,219. 5 Claims. (Cl. 271—88.)



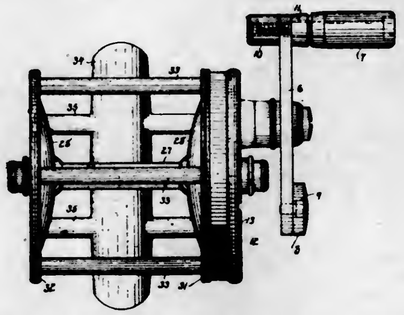
2. The combination with a sheet-delivery mechanism, of a sheet-receiving table, means normally operative in each cycle of operation of the delivery mechanism for lowering the table, reciprocating means comprising a trip-latch carried by an oscillating lever normally holding said table-lowering means out of operation when actuated in full stroke for inaugurating the action of said table-lowering means when restricted to limited stroke, and means for resetting said latch when tripped on the return stroke of said reciprocating means in position to hold said table lowering means out of operation.

1,386,365. ADJUSTABLE WRENCH-PLIERS. JOHN A. ROBERTS, Rolfe, Iowa. Filed Aug. 15, 1919. Serial No. 317,766. 2 Claims. (Cl. 294—42.)



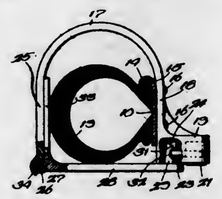
1. Pliers having handle members, each member having a jaw, said members being pivoted together whereby the jaws may assume usual positions with their gripping faces at an angle to each other, one of said jaws being movable, and means operable independently of movement of the handles to position the movable jaw at different locations with its gripping face substantially parallel with the gripping face of the other jaw.

1,386,366. FISHING-REEL. JOHN D. ROBERTSON, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed June 8, 1920. Serial No. 387,368. 3 Claims. (Cl. 74—33.)



1. A one-handled fishing-reel having a handle, a handle-grip carried thereby, and a balance-weight located on the same side of the axis of rotation of the handle as the said handle-grip.

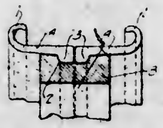
1,386,367. TIRE-LOCK. JOHN C. SCHENK, Chicago, Ill. Filed Aug. 7, 1919. Serial No. 315,797. 1 Claim. (Cl. 70—90.)



A tire lock comprising a substantially U-shaped member proportioned to accommodate a tire and adapted to be

attached by one leg to a tire carrier, a key releasable lock carried at the end of one leg of said member, a bell crank hinged upon the opposed end of the other leg of said member, one arm of said bell crank being adapted to swing between the legs of said member from a transverse position between the ends of said legs to a position parallel with said legs, the other arm of said bell crank being adapted to be swung by said first mentioned arm from a position in longitudinal alinement with one of said legs to a transverse position closing the space between the ends of said legs, and means carried by the end portion of said last mentioned arm for lockingly engaging with said lock whereby a tire disposed between the legs of said U-shaped member is locked against removal.

1,386,368. DEMOUNTABLE WHEEL-RIM. NICHOLAS SCHENK, St. Louis, Mo. Filed Mar. 29, 1920. Serial No. 369,824. 1 Claim. (Cl. 301—35.)



A demountable rim for vehicle wheels, comprising a tire carrying portion composed of two ring-shaped sections arranged in parallel relation, a lug on the edge of one of said sections that fits in a notch in the meeting edge of the other section, a retaining member arranged inside of said tire carrying portion and composed of a plurality of segmental-shaped parts hinged together in such a manner that a transverse joint is formed between the two end parts, an expansible means adapted to be arranged in the joint between the end parts for expanding said retaining member, means on said retaining member that embraces the sections of said tire carrying portion throughout the entire circumference of the rim, and a transversely-disposed rib on the tire carrying portion arranged in a transversely-disposed groove in the retaining member.

1,386,369. TOWEL-MACHINE. OSCAR SCHWIMMER, Los Angeles, Calif., assignor to Patent Products Company, Los Angeles, Calif., a Corporation of California. Filed Nov. 4, 1919. Serial No. 335,759. 1 Claim. (Cl. 45—32.)



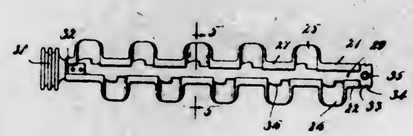
A toweling dispensing means comprising a case having an opening in the front for advancing toweling therethrough and an opening in the bottom at the rear for the withdrawal of toweling, a frictionally held toweling supply roller in said case, a plurality of pairs of rollers jornaled in said case, the pairs of rollers being spaced from each other, one pair of rollers serving to draw toweling from the supply spool and pass the same for use outside of the case, and another pair serving to return used toweling to within the casing, said rollers being provided with intermeshing gearing to that all of said rollers are geared together, a pinion on one of said rollers, a gear meshing with said pinion, a hand crank for operating said gear secured thereto by one directing clutch means, means to limit the rotation of said crank in both directions, a take-up roller, means to operate said take-up roller, and a yielding means connecting said operating means for said take-up roller with one of said returning rollers to operate said take-up roller simultaneously with said feeding and returning rollers.

1,386,370. GAS-SHUT-OFF CONTROL FOR WATER-HEATERS. OSCAR SCHWIMMER, Los Angeles, Calif. Filed Aug. 2, 1920. Serial No. 400,861. 5 Claims. (Cl. 122—504.3.)



3. A fusible plug structure comprising a casing having intersecting bores, two of said bores forming an inlet and outlet for fluid, a plug bore arranged for the insertion of and forming a seat for a fusible plug to occlude the passage between said inlet and outlet, and a remold bore disposed out of the path of said inlet and outlet connecting with said plug bore and having a portion of corresponding contour to receive the material of the melted plug and remold the same and arranged to permit removal of the remolded plug.

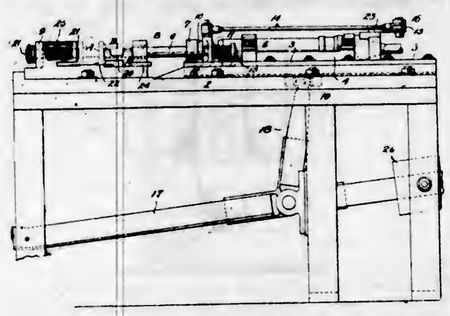
1,386,371. HAIR-WAVER. CHARLES SHEPARD, Boston, Mass. Filed Apr. 19, 1920. Serial No. 374,836. 13 Claims. (Cl. 132—33.)



1. A device of the class described comprising a pair of longitudinally extending members, projections upon each of said members about which hair is adapted to be alternately wound, and means extending between said members for separating the two members whereby the hair is drawn taut upon the device.

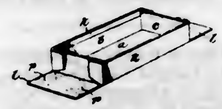
1,386,372. MACHINE FOR INSERTING PINS INTO HOLLOW ARTICLES. GEORGE P. SINGER and REGINALD J. HICKMAN, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Oct. 6, 1919. Serial No. 328,718. 7 Claims. (Cl. 29—88.2.)

1. In a machine for driving pins into hollow articles, the combination of a seat for the article, an anvil against which it bears, a centering pin carried by the anvil arranged to enter the hollow member of the article, a rest for supporting the pin in position to be driven and a



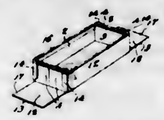
hammer for driving the pin from its rest into the said hollow article.

1,386,373. METHOD OF MAKING COVERED PAPER BOXES. HARRY BRIDGMAN SMITH, Brooklyn, N. Y. Filed Dec. 20, 1920. Serial No. 431,910. 29 Claims. (Cl. 95—40.)



1. A method of making boxes, comprising forming a box-blank assembly consisting of a shell-sheet and a cover-sheet with engaging areas adhesively coated, separating certain portions of the sheets and shaping the blank into box form and during the shaping inserting certain parts of the blank between said separated portions, and then bringing said separated portions back toward their previous assembly-positions, with an adhesively coated surface of one of them in contact with said inserted portions.

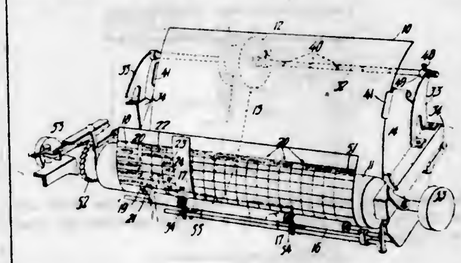
1,386,374. METHOD OF MAKING BOXES. HARRY BRIDGMAN SMITH, Brooklyn, N. Y. Filed Dec. 20, 1920. Serial No. 431,911. 13 Claims. (Cl. 93—40.)



1. A method of making boxes of paper or like materials, comprising preparing a blank-assembly consisting of a shell sheet and a cover sheet having end portions of considerable area in adhesive engagement and large intermediate areas unconnected by adhesive, and shaping the assembly into box-form.

1,386,375. LEDGER-SHEET. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed May 31, 1919. Serial No. 301,034. 5 Claims. (Cl. 197—132.)

1. In a typewriting machine for use with work-sheets having columns to receive items and columns to receive balances, in combination, a revoluble platen, a carriage, a holder for a narrow figuring strip, a rod on which said holder is mounted, positioned so that the strip will pass around the platen outside of a work-sheet thereon, means to determine the position of the strip holder at points along said rod to correspond with the columns in connection with which said strip is to be used, and feed-rolls ex-



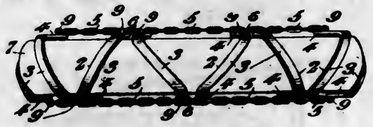
tending along the platen to maintain the strip and the work-sheet in operative relation with the platen irrespective of the position of the strip along the platen.

1,386,376. VAPORIZING APPARATUS. CHARLES W. SNYDER, Los Angeles, Calif. Filed Mar. 27, 1917. Serial No. 157,635. 14 Claims. (Cl. 123—133.)



1. A vaporiser comprising a vacuum pump, means communicating with the head end of the pump for admitting liquid fuel during the vacuum stroke of said pump, means for admitting air to said pump at or near the end of the vacuum stroke of said pump, means for varying the amount of both liquid fuel and air entering said pump, and means for allowing the mixture to be emitted from said pump at a pressure no greater than atmosphere.

1,386,377. ANTISKIDDING DEVICE FOR VEHICLE-WHEELS. WILLIAM H. SNYDER, Ashbourne, Pa. Filed May 8, 1920. Serial No. 379,703. 2 Claims. (Cl. 152—2.)

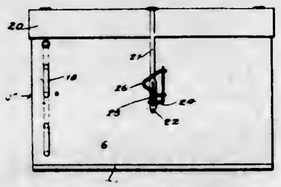


1. An anti-skidding device consisting of bars applicable to a tire and adapted to be disposed transversely obliquely on the tread of a tire, said bars being U-shaped and spaced apart in reversed directions, and flexible members connecting the side terminals of said bars and being continuous around the device on both sides thereof.

1,386,378. COAL-CAR-CHECK HOLDER. JOHN BENJAMIN SPARKS, Raven, Va. Filed Jan. 12, 1921. Serial No. 436,737. 1 Claim. (Cl. 40—15.)

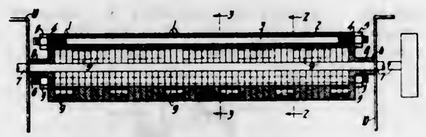
A check holder of the character described comprising a casing, check holding means within the casing, a cover hinged to the casing, a hasp carried by the cover, a keeper

carried by the front wall of the casing and a locking bolt having its intermediate portion extending through the front wall of the casing, the inner end of the bolt being



formed into a hook adapted to hold a check, the outer end of the bolt being formed into a bill for securing the hasp to the keeper.

1,386,379. TYPEWRITING-MACHINE. BURNHAM C. STICKNEY, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 13, 1917. Serial No. 201,742. 10 Claims. (Cl. 197—147.)

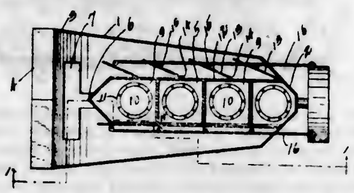


1. A platen comprising a series of disks placed side by side to form a cylinder, said disks having cellular openings therein, the cellular openings in a group of juxtaposed disks being arranged in register with each other, and groups of cellular openings for adjacent groups of disks being arranged in staggered relation with respect to one another, and a granular material in said cellular openings to deaden the sound vibrations.

1,386,380. COATING COMPOSITION AND PROCESS OF MAKING THE SAME. MORTIMER I. STRAUSS, Cleveland, Ohio. Filed May 18, 1917. Serial No. 169,451. 3 Claims. (Cl. 134—26.)

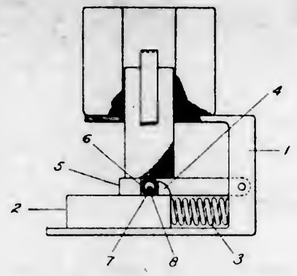
1. The process of forming a composition impervious to and unaffected by gasolene, oils and the like, consisting in dissolving shellac in an alkaline solution, producing a precipitate with an acid, dissolving the precipitate, and adding solid body material.

1,386,381. COOLING-JACKET FOR INTERNAL-COMBUSTION ENGINES. GEORGE H. TAGGARD, Walla Walla, Wash. Filed Jan. 17, 1920. Serial No. 352,162. 3 Claims. (Cl. 123—171.)



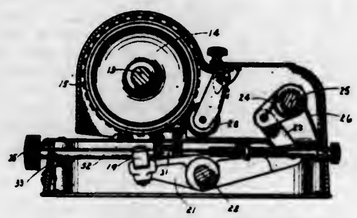
1. In a cooling jacket for internal combustion engines, an outer jacket, an inner jacket, partitions in said inner jacket forming compartments, said compartments extending from the bottom of said outer jacket to the top thereof and having both ends open, closable openings in the sides of said inner jacket, closures hingedly attached to said cooling jacket and operable against said closable openings, and a means for operating said closures through the walls of said outer jacket.

1,386,382. LATCH. JOSEPH S. THOMPSON, Mill Valley, Calif. Filed Oct. 18, 1920. Serial No. 417,789. 1 Claim. (Cl. 292—153.)



In a latching mechanism the combination of a pawl with two inwardly engaging faces, a latch capable of passing between the engaging faces of the pawl, a loosely supporting tubular roller member, a pin placed so that it passes through the roller member at a point just above its lower inside face when said roller is in latching position, the said roller forming the means of engagement between the latch and pawl, substantially as described.

1,386,383. CHECK-WRITER. CHARLES G. TIEFEL, Fairport, N. Y., assignor to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 2, 1919. Serial No. 314,969. 7 Claims. (Cl. 197—6.4.)



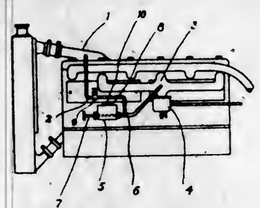
1. In a machine of the class described, a printing couple comprising a universal platen and a plurality of printing type, said platen and type having their impression faces constructed to shred the paper at different angles for different values, and means for operating the printing couple to print any desired values.

1,386,384. METHOD OF COVERING PAPER OR WOODEN BOXES. OSCAR WM. TRILSCH, Whitestone, N. Y., assignor to Oscar Trilsch Co., Whitestone, N. Y. Filed May 23, 1921. Serial No. 471,815. 3 Claims. (Cl. 93—54.)



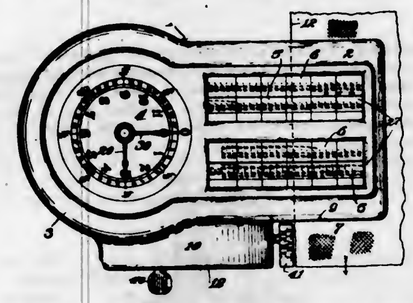
1. The method herein described of covering boxes, starting with a rectangular blank of covering material, coated with adhesive, centering the box upon said blank, folding covering blank up against the sides of said box, shearing off at each corner the surplus covering material and turning the upstanding edges inwardly and down into and against the inner surface of the sides of said box.

1,386,385. CARBON-REMOVER. GREGORY TOSOSSIAN, Cleveland, Ohio, assignor of one-third to Nelson C. Cotabish and one-third to William J. Higgins. Filed Feb. 9, 1920. Serial No. 357,405. 4 Claims. (Cl. 123—198.)



1. The process of removing carbonaceous deposits from an engine, which consists in running the engine under its own power and then admitting carbon tetrachlorid to the engine cylinder to loosen the carbon and blow it out through the exhaust manifold.

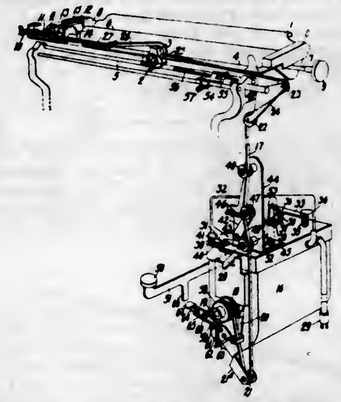
1,386,386. FABRIC-MEASURING AND COST-COMPUTING MACHINE. DOUGLAS TURNER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 19, 1920. Serial No. 359,855. 8 Claims. (Cl. 33—130.)



1. In a fabric measuring and cost-computing machine, the combination of a housing having a laterally projecting portion forming a knife pocket, said housing having a gap formed therethrough, through which the fabric may pass in measuring the same, a measuring roller mounted in said housing, indicating mechanism actuated thereby, a presser-roller to coöperate with the measuring roller, and to press the fabric against the same, means for forcing the presser-roller toward the measuring roller, means for latching the presser-roller away from the measuring roller, a knife mounted at said knife-pocket for notching the edge of the fabric, and a controlling member lying adjacent said knife pocket for actuating the latching means to release the presser-roller.

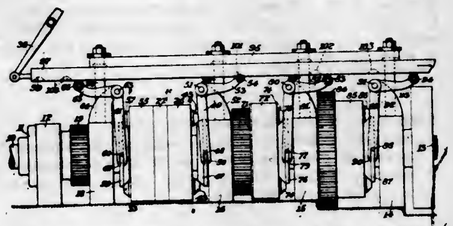
1,386,387. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 22, 1919. Serial No. 325,566. 19 Claims. (Cl. 197—66.)

1. The combination with a traveling carriage, of carriage-return means, including an electric motor, a flexible belt connecting said carriage and said motor, to enable the latter to return the former, a normally open switch in the motor-circuit, a normally closed switch in said circuit, means to close said normally open switch, and thereby cause actuation of said motor to return said carriage, a controlling member for said normally closed switch, a spring tending to maintain said controlling member in its normal position, means normally maintaining a buckle or bend in said belt, including a belt-guide on said controlling member, and means for checking said carriage



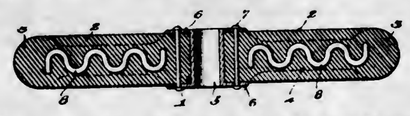
in its return movement, and thereby causing increased tension of said belt, and a movement of said controlling member, to open said normally closed switch.

1,386,388. VARIABLE-SPEED-TRANSMISSION APPARATUS. JOSEPH A. WILKIN, Matamoras, Pa. Filed Aug. 13, 1919. Serial No. 317,363. 7 Claims. (Cl. 74—59.)



1. In a transmission apparatus, a shaft, a revoluble member, a plurality of dogs, a sleeve on the said shaft provided with teeth adapted to be engaged by the said dogs, a connection between the dogs and the revoluble member whereby when the revoluble member is turned in one direction the dogs are moved into engagement with the teeth on the sleeve, a collar associated with the said sleeve, a shift bar and devices associated with the collar and shift bar for normally maintaining the collar in such a position as to hold the dogs out of engagement with the teeth on the said sleeve, and when the said shift bar is moved to a predetermined position permitting the said dogs to be moved into position for engagement with the teeth on the sleeve.

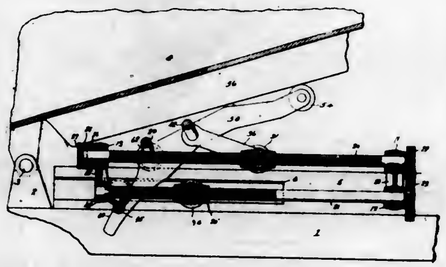
1,386,389. VEHICLE-WHEEL. WILLIAM G. WILSON and CHARLES HUDAK, Bridgeport, Conn. Filed Mar. 24, 1921. Serial No. 455,028. 3 Claims. (Cl. 152—29.)



3. An automobile wheel composed of an integral rubber structure having a hub, a tread, a continuous ring-like body between the hub and tread, and spokes arranged in

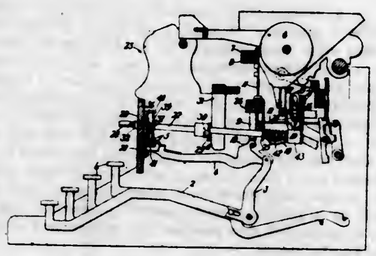
pairs with the spokes of each pair disposed on the respective opposite sides of the body and arranged to register with each other, the spokes having their inner ends connected to the hub and their outer ends extending beyond the circumference of the body and merging into the inner circumference of the tread, said body having radial reinforcements which are formed to have side parts that lie adjacent to the inner side of each of the spoke-forming parts of the pairs of the latter.

1,386,390. BODY-TILTING MECHANISM FOR MOTOR-TRUCKS. PERCY E. BARKER, Cleveland, Ohio, assignor to The Van Dorn Iron Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 12, 1920. Serial No. 402,970. 30 Claims. (Cl. 298—21.)



1. In a tilting mechanism, the combination with a truck body, of two members, one adapted to move with a translatory motion faster than the other, and means operated by the difference in speed of members and adapted to slidably engage and tilt a truck body, said tilting operation being accomplished while the members are moving in the same direction.

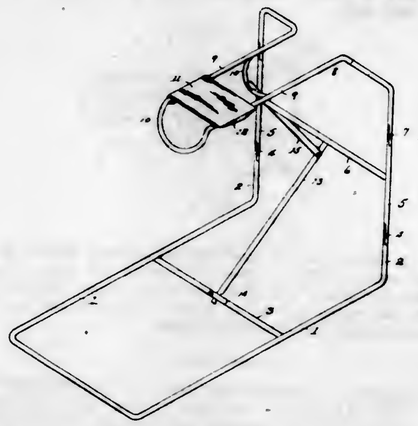
1,386,391. TYPEWRITING-MACHINE. WALTER E. BARNARD, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 7, 1918. Serial No. 261,447. 22 Claims. (Cl. 197—157.)



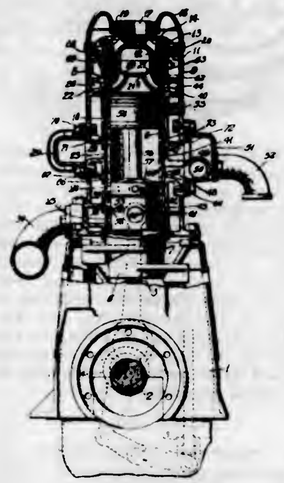
1. In a typewriting machine having polychrome printing means, the combination with a link adapted to vary the color, of a shaft for operating said link, a finger-piece for shifting said shaft transversely of its axis, means for supporting the shaft to cause said shifting to rotate it, and means for detaining the shaft in its rotated position.

1,386,392. BOTTLE-HOLDER. JACOB A. BRANT, Reading, Pa. Filed Oct. 29, 1920. Serial No. 420,348. 3 Claims. (Cl. 248—65.)

1. In a bottle holder, the combination of a base member, an upright member hingedly connected thereto, a bottle carrying rack hingedly connected to the upright member, means connecting the base member with the rack member for locking them in open position, and a bottle clamp carried by the rack member.

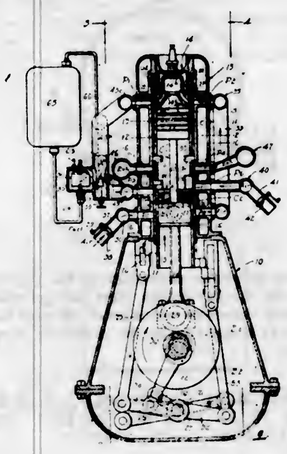


1,386,393. INTERNAL-COMBUSTION ENGINE. JOHN M. CAGE, Long Beach, Calif., assignor to Cage Engine Syndicate Inc., a Corporation of Delaware. Filed June 7, 1917, Serial No. 173,409. Renewed May 26, 1921. Serial No. 472,883. 41 Claims. (Cl. 123—75.)



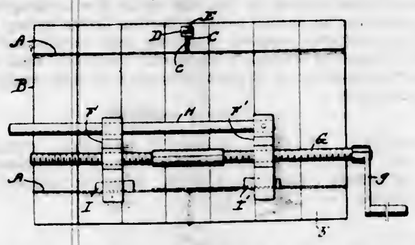
1. In an engine, the combination of a reciprocable work cylinder and valve sleeve, a head in said work cylinder providing a combustion chamber, a partition fixed in said work cylinder, a reciprocable compound piston in said work cylinder coöperating with the partition in providing gas compression and air chambers, and conduits adapted to receive air and gas from said gas compression and air chambers and deliver the air and gas to said combustion chamber, said work cylinder and valve sleeve being ported and adapted to control the admission, compression and exhaust of air and gas to and from all of said chambers.

1,386,394. INTERNAL-COMBUSTION ENGINE. JOHN M. CAGE, Long Beach, Calif., assignor to Cage Engine Syndicate, Inc., New York, N. Y., a Corporation of Delaware. Filed Sept. 3, 1918, Serial No. 252,356. Renewed May 26, 1921. Serial No. 472,884. 27 Claims. (Cl. 123—69.)



1. The combination with a cylinder having air and gas intake and exhaust ports, valvular means controlling the admission of air and gas to and from said cylinder, a piston in said cylinder, a crank shaft, means actuated by said crank shaft articulated with said valvular means and said piston adapted for reciprocating said valvular means and piston in timed relation so that exhaust ports open, air ports open, gas ports open, air and exhaust ports close and gas ports close in the order named.

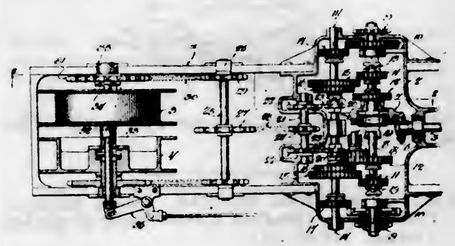
1,386,395. MEANS FOR TYING AND SEALING SHIPPING-PACKAGES. SPENCER C. CARY, Brooklyn, N. Y., assignor to Cary Manufacturing Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 9, 1918. Serial No. 221,458. 6 Claims. (Cl. 100—15.)



1. Means for binding and sealing a shipping package embodying a tie the end portions of which are twisted together and produce an arm or member extending from the plane of the tie, a sealing member embracing said arm or twisted member, and an anchoring staple straddling the arm or twisted member and in contact with said sealing member for retaining the arm or twisted member and the sealing member into close contact with said package.

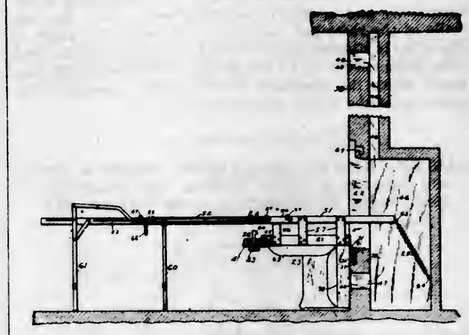
6. In the art of binding shipping packages, the improvement which consists in initially placing tension upon a wire binder by applying strain thereto at separated points, and subsequently placing additional tension upon the wire by twisting together its end portions at a point intermediate the two said separated points at which tension is initially placed upon the binder.

1,386,396. TRANSMISSION. FLOYD CORNELISON, Milwaukee, Wis. Filed Aug. 30, 1920. Serial No. 406,915. 2 Claims. (Cl. 74—58.)



1. In a vehicle, the combination with a power unit, a driven element carried by the vehicle, of a transmission mechanism including a two-part drive shaft having vehicle driving means connected with one part, a driving gear on a part of the shaft, a driven gear on the other part of the shaft, a jack shaft, a driven gear on the jack shaft and adapted to have the drive gear of the two-part shaft meshed therewith, a clutch controlled connection between said element and the jack shaft, and the gear slidably splined to the jack shaft and adapted to be engaged with or disengaged from the driven gear of the two-part shaft whereby to selectively operate either the vehicle or the said element.

1,386,397. CONVERTIBLE FURNITURE. FRED M. DAVIS, Chicago, Ill., assignor to Pullman Couch Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 11, 1916. Serial No. 114,365. 4 Claims. (Cl. 5—48.)

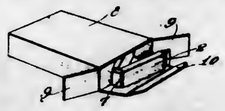


1. A device of the character described, comprising an apertured house-wall, a full-sized double bed mounted in the wall aperture, jointed connecting means for said wall and bed whereby the latter may be swung forward and backward with respect to the aperture for use and storage respectively, said bed including a foldable sectional bed bottom having a plurality of joints and fold lines disposed crosswise of the bed whereby the storage aperture may be of small width and low height, and a small-sized sofa attachment secured to the underside of the bed, adapted to hide said aperture and to serve as a seat when the bed is folded and stored.

1,386,398. SANITARY WRAPPER FOR TOOTHBRUSH-BODIES. LAWRENCE C. DAVIS, Chicago, Ill. Filed July 9, 1920. Serial No. 395,005. 2 Claims. (Cl. 206—56.)

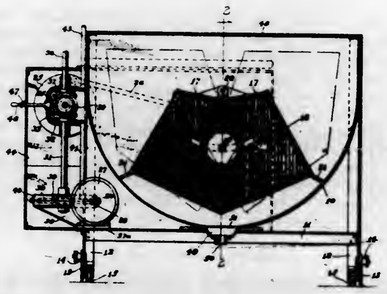
2. A carton having a removable cover at one end thereof, and containing a series of compressed tooth-brush bodies arranged in a pile and separably connected to each

other at alternate ends, said brush bodies being so laid in the carton as to successively appear at the mouth of the



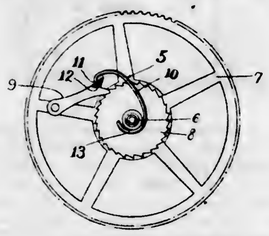
carton as the individual brush bodies are drawn out and severed from the group.

1,386,399. WASHING-MACHINE. GEORGE ENTREKIN, Pittsburgh, Pa. Filed Oct. 9, 1919. Serial No. 329,543. 3 Claims. (Cl. 68—21.)



1. In a washing machine, a stationary tub, a rock shaft extending transversely of the tub, an oscillatory clothes receptacle hung from the rock shaft, a rubbing roller in the receptacle, and a shaft supporting said roller, the end walls of the receptacle having slots in which the shaft of the roller is slidably supported and also free to rotate, said slots being curved on an arc having for its center the axis about which the receptacle oscillates, and running in the direction of the travel of the receptacle.

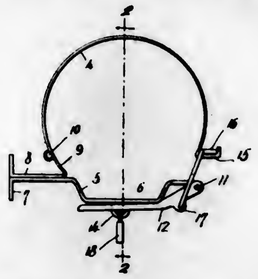
1,386,400. RATCHET MECHANISM. HOMER R. GETTLE and CHARLES S. SCOTT, Bluffton, Ind. Filed Apr. 1, 1920. Serial No. 370,388. 2 Claims. (Cl. 74—16.)



2. In a ratchet mechanism including a shaft, a ratchet wheel and a pivoted pawl, a spring comprising a longitudinally curved body provided at its ends with inturned extremities one of which is engageable about the shaft and the other engaged with the free end portion of the pawl.

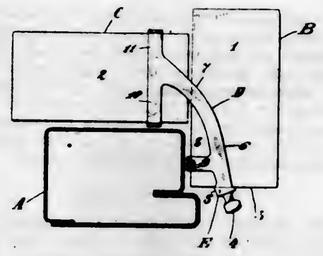
1,386,401. TIRE-HOLDER. LOUIS A. GRAMS, Randolph, S. D. Filed Aug. 5, 1918. Serial No. 248,366. 1 Claim. (Cl. 224—29.)

A tire holder comprising a base section having horizontally extending alined ends and a depression between the horizontal ends, a plate secured to one of the horizontal ends and provided with an upwardly extending flange, a flexible strip hingedly connected to the upwardly extending flange and having its free end bent to form a channeled



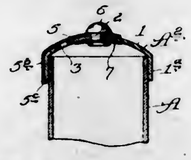
flange, a lever pivotally connected to the horizontal end opposite to the one having the plate secured thereto, and a link pivotally connected to the lever, the free end of said link adapted to be received in the channeled flange of the flexible strip.

1,386,402. BRICK-ANCHORED BOLT. JOHN K. GREEN, New York, N. Y. Filed Nov. 28, 1919. Serial No. 341,211. 3 Claims. (Cl. 72—108.)



2. An anchor bolt for use with a window cleaner's safety belt adapted to be secured to the bricks of two or more tiers of brick in the wall about a window-opening comprising an anchor head; a parting bridge having flat walls engaging surfaces mounting said anchor-head; a web extending diagonally rearwardly from said bridge and having lipped arms extending therefrom at right angles to each other.

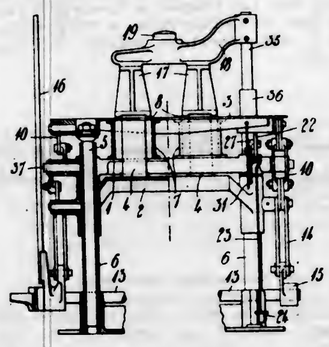
1,386,403. OIL-CUP. ALBERT C. GRUNWALD, Chicago, Ill., assignor to Precision Metal Workers, a Corporation of Illinois. Filed Oct. 8, 1920. Serial No. 415,483. 2 Claims. (Cl. 184—92.)



2. A device of the character set forth, comprising an oil cup equipped at one end with a cap comprising a bowed top wall and a depending flange which embraces the upper portion of said cup, said top wall being provided with a perforation through which oil may be introduced and having a depending flange with an inturned lower edge engaging the lower edge of the flange of said cap, the flange of said closure being provided with a finger piece, a leaf

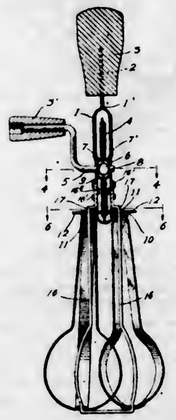
spring bearing against the inner surface of said cap, and an axial pivot connecting said closure to the central portion of said cap and to said spring, for the purpose set forth.

1,386,404. MACHINE FOR PRODUCING HOLLOW BRICKS. BROR OSCAR WALTER HESSELMAN and OSKAR GOTTFRID MEINHARD MATTSSON, Stockholm, Sweden. Filed Apr. 10, 1915. Serial No. 20,513. 14 Claims. (Cl. 25—45.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



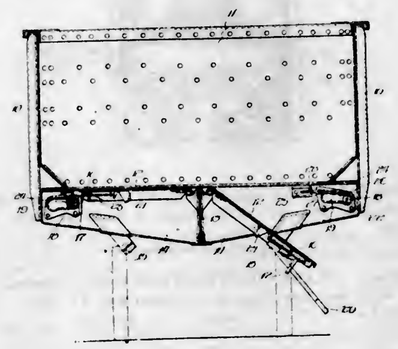
1. In a machine for molding blocks, the combination of a mold, a support, means for moving the said mold into operative position at one side of the support and into inoperative position away from the support, means for applying pressure to the material in the mold and means for automatically relieving the pressure when the mold reaches its inoperative position.

1,386,405. EGG-BEATER. SIDNEY C. HILLS, Torrington, Conn., assignor to The Turner & Seymour Manufacturing Company, Torrington, Conn., a Corporation of Connecticut. Filed Apr. 29, 1921. Serial No. 465,419. 6 Claims. (Cl. 259—131.)



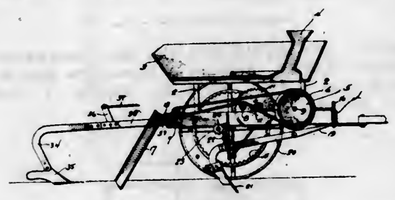
1. In an egg beater, the combination of a round shaft having a locally flattened winged portion, a wheel and a dished washer, each having a winged opening adapted to pass over both the round and flattened portions of said shaft, and a second dished washer having a hole adapted to receive the round portion of said shaft, said washers being secured to said wheel and located so that said winged openings are out of alinement with one another.

1,386,406. DOOR-OPERATING MECHANISM. DAVID HINDAHL, Chicago, Ill., assignor to National Dump Car Company, Chicago, Ill., a Corporation of Maine. Filed Nov. 10, 1919. Serial No. 337,003. 4 Claims. (Cl. 105—309.)



3. In a general service car having a door, a shaft, means whereby said door may be temporarily held in raised position by said shaft, and means including a flexible member connected to said shaft whereby the latter may permanently support said door in raised position.

1,386,407. CANE-PLANTER. EDWARD H. HIPPLE, Honolulu, Hawaii. Filed June 25, 1919. Serial No. 306,605. 1 Claim. (Cl. 111—59.)

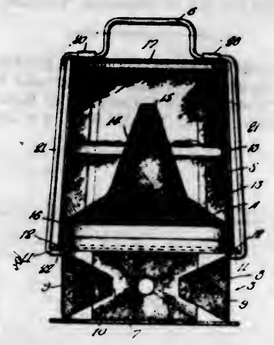


In a device provided with a furrow opener and furrow closer and a seed depositor between the opener and closer, a means for lifting the said members in coöperative relation comprising an arcuate rack mounted to the furrow opener and a pinion co-meshing with the rack, a chain driving the pinion for lowering and lifting the opener, a member operable of the chain interconnected with the furrow closer, a chute pivotally mounted in abutment to the furrow closer whereby upon the movement of the furrow closer the chute will also be moved.

1,386,408. INSECT-TRAP. MARTIN KABBOUSKI, Cicero, Ill. Filed Jan. 5, 1920. Serial No. 349,477. 4 Claims. (Cl. 43—121.)

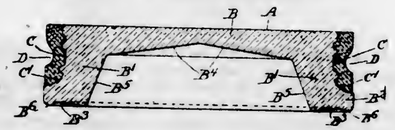
1. A trap having in combinative association a receiving, base unit provided with an angular flanged ring bounding its upper edge; an intermediate, separable cone shaped unit, having an opening at its apex and having an angular flanged ring bounding its lower edge for support

on the flanged ring of the base unit, and a separable, superimposed, storing unit having a ring bounding the



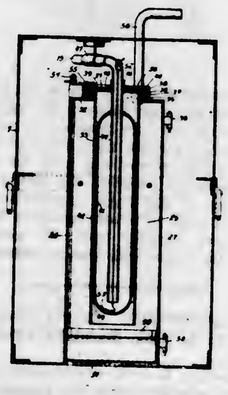
opening at its lower edge for support on the flanged ring of the cone structure, and means to hold the units together.

1,386,409. GLASS CONSTRUCTION UNIT. FREDERICK L. KEPPLER, New York, N. Y. Filed Nov. 12, 1917. Serial No. 201,683. 3 Claims. (Cl. 94—29.)



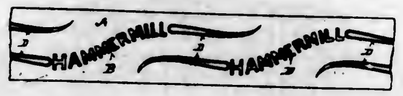
1. As a new article of manufacture a glass tile comprising a relatively thin portion, downwardly depending edges having corrugated outer surfaces, a band of cement material let into said corrugations, the outer surface of said band being channeled.

1,386,410. APPARATUS FOR GENERATING TERPENE OZONID VAPOR. EPHRAIM D. KLOTS, New York, N. Y. Filed June 6, 1916. Serial No. 101,955. 3 Claims. (Cl. 167—9.)



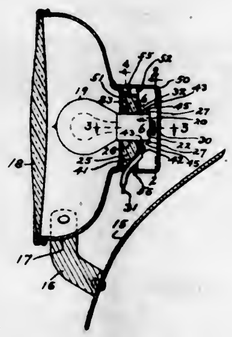
1. A vapor-generating apparatus comprising the combination of a casing, a motor and a blower driven thereby mounted within the casing, an inner compartment located within the casing, an ozonizer mounted within the inner compartment and so constructed that the air passage therethrough doubles back and forth upon itself, a receptacle for the liquid to be ozonized located within the inner compartment and close to the outlet of the ozonizer, a door for the inner compartment permitting removal of the receptacle, a conduit carrying air from the blower to the ozonizer, and an outlet for vapor from said inner compartment.

1,386,411. WATERMARKING DEVICE. FREDERIC P. KLUND, Erie, Pa., assignor to Hammermill Paper Company, Erie, Pa., a Corporation of Pennsylvania. Filed June 1, 1920. Serial No. 385,550. 3 Claims. (Cl. 101—23.)



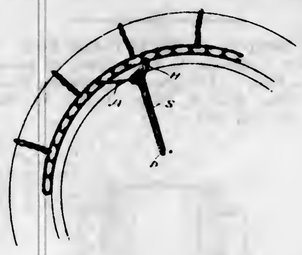
1. In a roll for marking crape paper, spaced marking devices on its periphery adapted to contact with the paper, and means in line with the marking devices adapted to support the roll from contact with the paper when the marking devices thereon are out of contact therewith.

1,386,412. SOCKET FOR INCANDESCENT ELECTRIC LAMPS. OSCAR KROEHLE, Lakewood, Ohio. Filed Feb. 17, 1921. Serial No. 445,777. 11 Claims. (Cl. 240—7.)



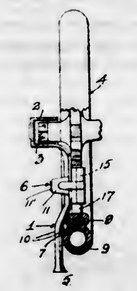
6. In combination, a casing adapted to extend circumferentially of an incandescent electric lamp and considerably larger in diameter at one end than at its other end and having an internal annular flange at its diametrically smaller end, an insulating body arranged at the outer side of said flange and having an opening adapted to receive the base of said lamp, a metal shell at the outer end face of said insulating body and insulated from the aforesaid casing and adapted to receive said base through said opening and forming a contact adapted to be engaged by one terminal of said base, a resilient member insulated from said shell and forhing a contact adapted to be engaged by the other terminal of said base, and means whereby said resilient member, said shell, the aforesaid insulating body and the aforesaid flange are secured together.

1,386,413. WHEEL-CHAIN-TIGHTENING TOOL. ZENON AMABLE LAVOIE, Manchester, N. H. Filed May 26, 1920. Serial No. 384,253. 1 Claim. (Cl. 254—78.)



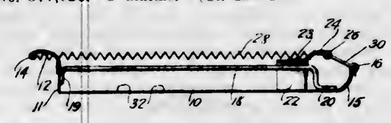
A tool of the character described comprising, a shank having one end thereof enlarged and shaped to provide a laterally disposed hook and an ear spaced from the hook, and an arm comprising, a rod having one end thereof bent upon itself to provide a ring which engages said ear, the opposite end of the rod being bent upon itself to provide a hook which is disposed at right angles to the first hook.

1,386,414. WHEEL-LOCK. RENA S. LAWRENCE, San Francisco, Calif. Filed Dec. 11, 1920. Serial No. 429,949. 4 Claims. (Cl. 70—90.)



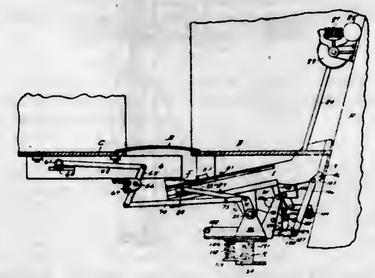
1. An automobile lock comprising a bar, key actuated locking means for securing the bar to a wheel of an automobile so that the bar projects outwardly beyond the perimeter of the wheel, and a cap on the inner end of the bar for reception of the hub cap of said wheel.

1,386,415. FLYTRAP. RAGNVALD LELAND, Birch Hills, Saskatchewan, Canada. Filed Apr. 27, 1920. Serial No. 377,026. 3 Claims. (Cl. 43—110.)



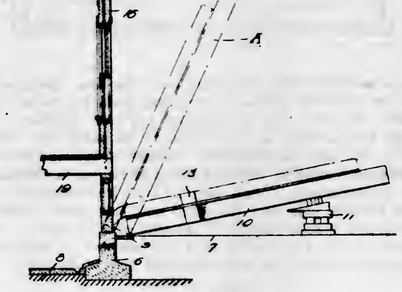
1. A fly trap comprising a flat base plate adapted to receive a fly attracting substance, a raised abutment wall at one end thereof, a hollow slide having an open side adapted to be closed by said wall when thereagainst, tensional means for drawing said slide against said wall, a stiffening rod rigidly attached at its ends to said plate and extending centrally longitudinally thereover, the rod passing freely through said slide, and releasable means for holding said slide when extended.

1,386,416. CONVEYING DEVICE FOR LOCOMOTIVE-STOKERS. HAMILTON LINDSAY, Willoughby, Ohio. Filed Apr. 12, 1919. Serial No. 289,742. 22 Claims. (Cl. 193—62.)



1. In a conveying device, the combination, with a casing, of a reciprocating plunger, said plunger having a series of steps on the inner side thereof.

1,386,417. CONCRETE STRUCTURE AND METHOD OF MAKING THE SAME. WILLIAM F. MARX, Emporia, Kans. Filed Aug. 10, 1920. Serial No. 402,541. 2 Claims. (Cl. 72—16.)

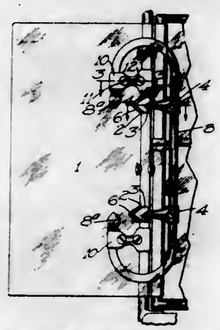


2. A method of making concrete structures consisting in first laying a rigid foundation, next arranging a platform near the foundation after which a layer of concrete is poured on the platform, then laying reinforcing bars on said layer of concrete and depositing a strata of sand thereon following which a second layer of concrete is laid upon the said bars and sand and the concrete permitted to harden, and finally elevating the platform to permit the wall to gravitate into engagement with the foundation and allowing the strata of sand to gravitate therefrom to provide an air space in the wall.

1,386,418. AUXILIARY WINDSHIELD. CHESTER D. MILLER, Los Angeles, Calif. Filed Dec. 16, 1919. Serial No. 345,361. 3 Claims. (Cl. 296—84.)

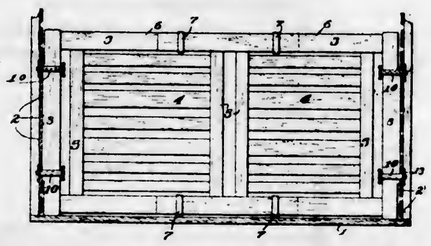
1. An auxiliary wind shield including a transparent shield member, a supporting member consisting of a member curved near its opposite ends, providing spaced apart parallel portions, a pair of clamp members with their one

end clamped to said shield member and with their opposite ends clamped to one of said parallel portions, a pair of



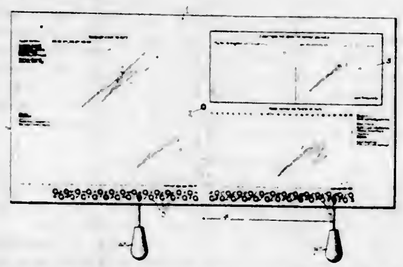
clamp members secured to the other parallel portion of said supporting member and the conventional wind shield post and separate means for clamping same.

1,386,419. STOCK-CAR PARTITION. RAYMOND MILLER, St. Louis, Mo. Filed Jan. 19, 1920. Serial No. 352,349. 3 Claims. (Cl. 119—11.)



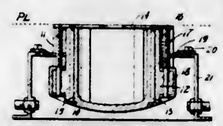
1. A partition for stock cars and the like, comprising gate-like members having overlapping portions, means for slidably securing said overlapping portions together and clamps for securing said partition to the sides of a stock car or the like, each of said clamps comprising a bar slidable on a stile of the partition and having a theraded hole therethrough, a bolt having its threaded end disposed in said hole and its other end extending between and beyond spaced boards of the side of a stock car, and a clamp bar at the enod of said bolt adapted to be drawn against the side of the car when said bolt is turned.

1,386,420. APPARATUS FOR DETERMINING PROPORTIONS IN COMPOUNDS AND MIXTURES. JOHN R. MURLIN and WILLIAM P. GARRETY, U. S. Army. Filed Feb. 24, 1919. Serial No. 279,006. 3 Claims. (Cl. 235—61.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



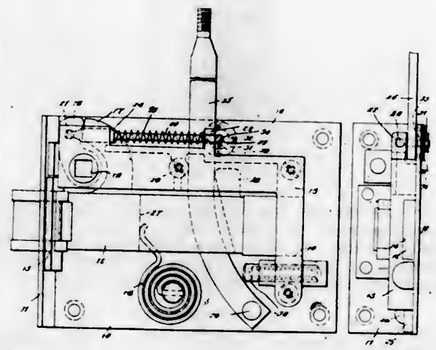
1. In a device of the character described, a card provided with means for suspension at its center of gravity, said card having vertical rows of numbers corresponding to quantities of matter to be included in a mixture, and weights adapted to be suspended on said card; said numbers serving to locate the point of suspension of said weights.

1,386,421. SWITCH OR RECEPTACLE BOX. WILLIAM J. NEWTON, Lynbrook, N. Y., assignor, by mesne assignments, to John G. Livingston, Woodmere, Long Island, N. Y. Filed Mar. 9, 1916. Serial No. 83,086. 1 Claim. (Cl. 247—19.)



A device of the kind described comprising a box provided with a longitudinal recess, a lug slidably mounted within the recess, a bridge member secured to the top of said box and provided with an apertured ear overlying one end of said recess, an apertured abutment overlying the other end of said recess, and a screw rotatably mounted in the recess in the threaded engagement with the lug for adjusting the lug longitudinally of the recess, said screw being provided with unthreaded ends mounted in the apertures of the ear and the abtument, and with shoulders coöperating with said ear and abutment to retain said screw against longitudinal movement.

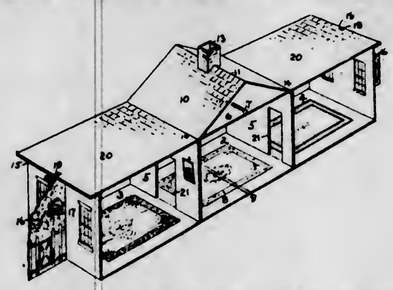
1,386,422. LATCH. LEON OTTINGER, New York, N. Y. Filed Jan. 29, 1920. Serial No. 354,960. 4 Claims. (Cl. 292—173.)



1. In a latch, a rectilinearly movable latch bolt, means for retracting said bolt including independently operable members each adapted to effect retraction of the bolt, and a single means for preventing retraction of the bolt by the actuation of either of said members but permitting, when in its effective position, of the retraction movement of the bolt by pressure directly applied to one end of the bolt.

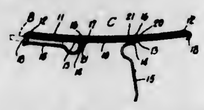
1,386,423. COLLAPSIBLE TOY HOUSE. HOBART DE LANCEY RAPSON, Philadelphia, Pa. Filed Oct. 14, 1920. Serial No. 416,976. 8 Claims. (Cl. 46—37.)

1. A one story collapsible toy house, consisting of a plurality of rectangular box-like frames open at each end and permanently connected together side by side on parallel hinge parts, to provide a plurality of rooms in the same horizontal alinement said box-like frames arranged to fold partly in opposite directions toward each other



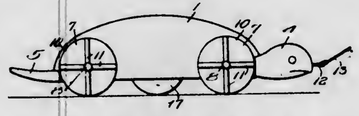
into a flat condition with all of the parts constituting the top, bottom and sides thereof collapsible so as to lie close together in parallel relation.

1,386,424. SOFT-COLLAR FASTENER. LUDS REITER, Providence, R. I. Filed Feb. 15, 1921. Serial No. 445,135. 2 Claims. (Cl. 24—81.)



1. A device as characterized, comprising a rigid bar having slide and end flanges, a flat spring bar clamped between said flanges at the rear side thereof, said bar having slots therein, a pair of fingers having their inner ends pivoted within said slots and co-acting with a spring bar to hold the same in opened or closed position, said fingers together with the outer ends of the bar constituting clamps for the reception of the collar wings.

1,386,425. LAND AND WATER TOY. WALTER RENDTORFF, Maywood, Ill. Filed Oct. 11, 1920. Serial No. 415,989. 5 Claims. (Cl. 46—45.)



1. A land and water toy having a buoyant body, and a supporting wheel for the body upon which the top may be moved on the land, the wheel being provided with projecting vanes which rotate the wheel as the toy is drawn through the water.

1,386,426. RAIL-LUBRICATOR NOZZLE. JAMES M. RIDDLE, Alamogordo, N. Mex. Filed Oct. 26, 1920. Serial No. 419,761. 2 Claims. (Cl. 299—31.)



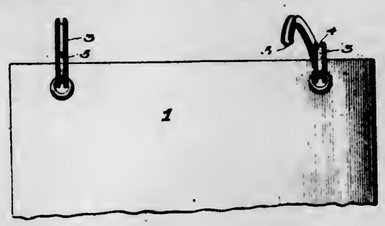
1. In a rail lubricating device, a nozzle having an inlet at the top and flaring downwardly from said inlet to present a major and a minor axis, means to secure said nozzle to a supply pipe, an inverted V-shaped spreader in said nozzle substantially along the major axis thereof, and an inverted V-shaped spreader in the nozzle substantially at right angles to the first-mentioned spreader.

1,386,427. PRINTER'S INKING-ROLLER. GUSTAVE RUNGE, Cleveland, Ohio. Filed Mar. 5, 1921. Serial No. 449,864. 5 Claims. (Cl. 91—67.8.)



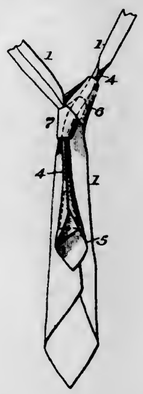
1. An inking roller comprising a shaft, a cushion upon the shaft and a coating of ink distributing composition entirely ensealing the cushion.

1,386,428. LOOSE-LEAF BINDER. JOHN SCHADE, Holyoke, Mass., assignor to National Blank Book Company, Holyoke, Mass., a Voluntary Trust Association of Copartnership consisting of J. W. Towne, F. B. Towne, E. S. Towne, J. M. Towne, and F. W. Wilson, trustees. Filed Mar. 23, 1920. Serial No. 368,179. 6 Claims. (Cl. 129—1.)



6. A loose leaf binder made of flat wire formed tubular in cross section with the edges disconnected and normally in the form of a segment of a helix the extremities of the ring overlapping each other in the direction of their lengths, and one extremity having a projecting tongue that is bent so as to seat snugly within the other extremity whereby the ends of the ring when forced together in interlocking engagement will abut closely in arcuate disposition in the same plane.

1,386,429. NECKWEAR. WILLIAM C. SCHMIDT, Philadelphia, Pa. Filed Sept. 9, 1919. Serial No. 322,667. 2 Claims. (Cl. 2—11.)



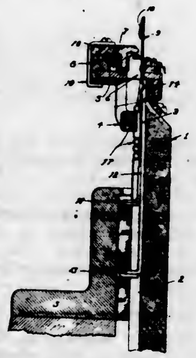
1. A made up four in hand neck scarf consisting of a scarf with a made up knot thereon, a flaring piece of flat and comparatively stiff material inclosed and concealed in the terminal portion of the movable part of the scarf and secured to the sides of said part.

1,386,430. DEVICE FOR SECURING HOOPS ON CASKS, BARRELS, TUBS, AND OTHER RECEPTACLES. JOSEPH FERNAND CLEMENT SCHAFFNER, Paris, France. Filed June 6, 1914. Serial No. 843,513. 1 Claim. (Cl. 217—93.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



A device for securing hoops on casks and the like, comprising a plate with simple incisions made along the central longitudinal line, and excisions which unite the incisions with the edges of the plate so as to form tongues alternately on the two sides of the plate.

1,386,431. SPRING-NEEDLE KNITTING-MACHINE. WILLIAM SCHWARZE, Philadelphia, Pa., assignor to Rudolph H. Wyner, Boston, Mass. Filed May 15, 1920. Serial No. 381,788. 17 Claims. (Cl. 66—21.)



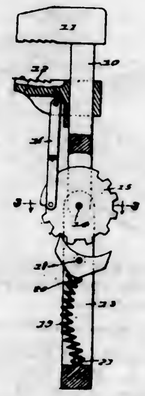
1. A knitting machine of that type employing spring beard needles, comprising in combination, a needle bed having needle guiding grooves therein, a needle beard presser member, means for producing relative movement between said presser and a needle mounted in one of said grooves in a direction longitudinally of the needle, and means wholly external to a surface defining the bottoms of the several needle grooves, such means acting upon the needle at a point relatively distant from its beard and being operative to flex the needle transversely of its length, whereby to bring its beard into contact with said presser.

1,386,432. VALVE-GRINDING COMPOSITION. CLIFFORD SHATTOCK, Detroit, Mich. Filed June 1, 1921. Serial No. 474,203. 1 Claim. (Cl. 51—280.)

A grinding composition consisting of one pound of carborundum, one-fourth of a pound of ground glass, and one-half pint of a solution made up of lye one-half pint, grease five pounds, and water three gallons.

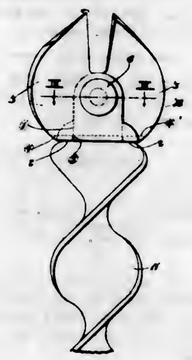
1,386,433. COMBINATION-WRENCH. WILLIAM B. SHAW, Eaton, Colo. Filed Jan. 30, 1920. Serial No. 355,026. 3 Claims. (Cl. 81—133.)

1. A wrench having a shank carrying a fixed jaw, a movable jaw mounted on the shank for movement toward and from the fixed jaw, a rotatably mounted spur wheel carried by the shank and operatively connected with the movable jaw, the shank being provided with a handle, a reversible dog pivotally mounted on the handle for termi-



nal engagement with the teeth of the spur wheel, and a longitudinally bowed expansion spring terminally engaged respectively with the handle and the dog for holding the latter in its adjusted positions.

1,386,434. MINER'S DRILL. SAMUEL T. SKEEN, Sandoval, Ill., assignor of one-half to Charles E. Stead, Centralia, Ill. Filed Oct. 10, 1919. Serial No. 329,852. 3 Claims. (Cl. 255—69.)



1. A drill comprising a stem having a non-circular bit-receiving shank at one of its ends and provided with end abutments adjacent said shank, and a double bladed bit secured to and embracing said non-circular shank, said bit abutting against the abutments at the end of said stem.

1,386,435. TRAIN-ORDER HOLDER. EMERSON HOWE SMITH, Parsons, Kans. Filed June 24, 1920. Serial No. 391,336. 4 Claims. (Cl. 294—3.)

1. A train order holder having a frame formed from a strip of material reduced to provide a section having flexibility and resiliency, the reduced section being bent to provide a bow having arms converging toward the handle, a loop formed of resilient metal doubled intermediate its length to provide converging arms extending between the converging arms of the bow, a fastener passing through the arms of the bow and loop, and a sleeve positioned about the handle and extending to engage



the converging end portions of the bow arms, the sleeve compressing the arms of the bow to compress the loop and being held in place by frictional engagement.

1,386,436. DENTAL PLIERS. WILLIAM C. SMITH, Milford, Del., assignor to The L. D. Caulk Co., Milford, Del., a Corporation of Delaware. Filed July 29, 1920. Serial No. 399,757. 1 Claim. (Cl. 128—354.)



Pliers of the class specified, consisting of a strip of spring metal doubled and having opposing jaws which are continuous from the uniting bend, the jaws being outwardly bowed and having reduced extremities terminating in laterally and obliquely projected beaks which contact at their points only, the metal adjacent to and at a certain distance from the bend being reduced in thickness to provide resilient connecting arms between the jaws and bend, the jaws being fully open between the bend and beaks thereof and having contact in advance of the said connecting arms when the jaws are compressed and closed to relieve the bend and arms of deteriorating strain.

1,386,437. NITROSTARCH EXPLOSIVE. WALTER O. SNELLING, Allentown, Pa., assignor, by mesne assignments, to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Oct. 3, 1918. Serial No. 256,736. 15 Claims. (Cl. 52—11.)

1. An explosive comprising nitro-starch, a deliquescent salt, and sufficient water to hold in solution a substantial amount of the deliquescent salt.

1,386,438. EXPLOSIVE. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Aug. 6, 1919. Serial No. 315,675. 17 Claims. (Cl. 52—11.)

1. An explosive comprising a nitrated carbohydrate, water in excess of three per cent., and an hydroxid of a metal of the magnesium group having an atomic weight greater than that of magnesium.

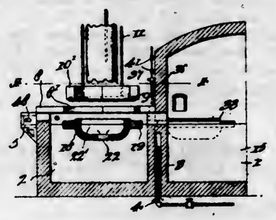
1,386,439. METHOD OF TREATING UNDRIED ORGANIC NITRATES AND THE LIKE. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Mar. 16, 1920, Serial No. 366,390. Renewed Jan. 21, 1921. Serial No. 439,054. 5 Claims. (Cl. 52—21.)

2. In the method of manufacturing explosives and the like containing a solid organic ntirate, the step which comprises displacing water present in the undried organic nitrate by a concentrated solution of an inorganic nitrate.

1,386,440. EXPLOSIVE. WALTER O. SNELLING, Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Feb. 11, 1920, Serial No. 357,900. Renewed Jan. 21, 1921. Serial No. 439,055. 9 Claims. (Cl. 52—11.)

1. An explosive containing nitro-starch desensitized by the presence of oil in an amount of not less than 10% of the nitro-starch.

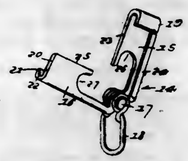
1,386,441. APPARATUS FOR DRAWING GLASS CYLINDERS. ARTHUR E. SPINASSE, Mount Vernon, Ohio. Filed Mar. 31, 1916. Serial No. 87,936. 12 Claims. (Cl. 49—17.1.)



1. In an apparatus for drawing glass cylinders, a furnace, a forehearth extending from said furnace, a wall between the two, a recess in said wall and cooling means in said recess, a cover for said forehearth having an opening therein, a ring in said opening, a support for said ring, said support extending under said ring, means for raising and lowering said support and ring, and a glass segregating element adapted to float in the glass in the forehearth and to rise into contact with the ring support without adhesion.

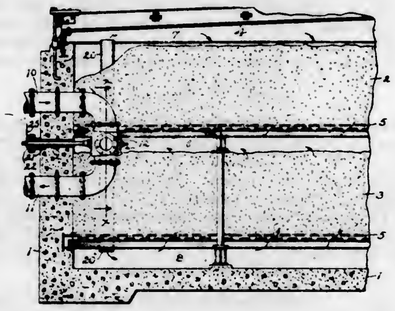
9. In a glass drawing apparatus, in combination, a segregating ring, a bait, a drawing head carrying said bait, a hollow cable supporting said drawing head, and means for supplying air through said cable and bait to the cylinder.

1,386,442. AUTOMOBILE CHAIN AND LOCK. PETER H. SPOELSTRA, Pella, Iowa. Filed July 29, 1919. Serial No. 314,007. 2 Claims. (Cl. 24—242.)



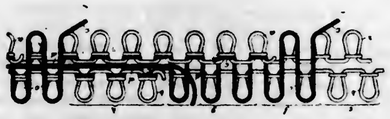
1. A device for connecting the extremities of a chain and consisting of a lock having pivotally connected members provided at intermediate points with registrable link seats, one of said members being provided with a terminal seat for the reception of the extremity of the other member, and the second-named member being provided with a side groove for the reception of the edge of the first-named member.

1,386,443. PURIFIER REVERSE-FLOW MECHANISM. FRANK W. STEERE, Detroit, Mich., assignor to Steere Engineering Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 4, 1918. Serial No. 261,123. 14 Claims. (Cl. 183—39.)



1. In combination with a purifier box having a bed of purifying material therein with a space at each side of said bed, of an inlet and an outlet for the box, a conduit communicating with the space at one side of said bed, and a valve for controlling the communication of said inlet and outlet with the space at the other side of said bed and with said conduit.

1,386,444. KNITTED FABRIC AND THE METHOD OF PRODUCING THE SAME. GODFREY STIBBE, Leicester, England. Filed July 7, 1919. Serial No. 308,916. 8 Claims. (Cl. 66—4.)



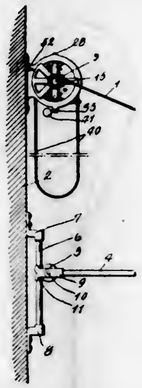
1. A knitted fabric consisting of two independently knitted webs one overlying the other and united by means of a yarn which is additional to the yarns of which said webs are formed, said additional yarn being passed around the bases of the loops of the individual webs wholly below the exposed surfaces of said webs and running from one web to the other to tie them together.

1,386,445. LIME-NITROGEN PROCESS AND PRODUCT. JOB MORTEN AUGUST STILLESEN, Niagara Falls, N. Y. Filed Aug. 8, 1911, Serial No. 643,011. Renewed Nov. 30, 1917. Serial No. 204,782. 22 Claims. (Cl. 23—13.)

5. The process which consists in treating lime nitrogen with water and with carbon dioxid.

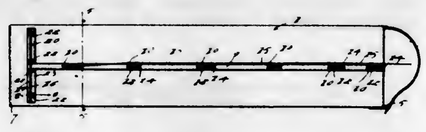
1,386,446. AWNING-FIXTURE. CHARLES H. TALLEY, Aurora, Ill. Filed Dec. 9, 1920. Serial No. 429,461. 3 Claims. (Cl. 74—34.)

1. A device as described comprising a casting having means to affix it to a support and provided with a bearing and an internal gear, a cover plate adapted to be secured to the casting and having a bearing therein, a grooved wheel mounted inside the cover plate and having a pinion thereon concentric with the internal gear, a shaft journaled in the bearings and passing through said wheel, a bar on said shaft, pinions on the bar meshing both with the first named pinion and with the internal gear, an operating cable passing about the groove in said wheel, a weighted pawl suspended beneath the wheel and adapted to normally check the movement of said



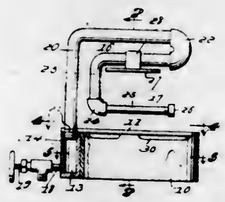
wheel, said pawl having sliding engagement with the cable, and means for connecting said shaft to an awning pole, substantially as described.

1,386,447. COTTON-SACK. PETER J. THOMAS, Sapulpa, Okla. Filed Mar. 13, 1917. Serial No. 154,490. 1 Claim. (Cl. 150—2.)



A cotton sack including an elongated body having a closed end and said body being slitted longitudinally and transversely to provide flaps with overlapping edges, keepers secured to one of the flaps along the longitudinal slit and extending through the other flap, spring pressed locking pins secured to the last named flap and engaging the keepers, means connecting the pins to permit operation thereof simultaneously and spring clips detachably connecting the flaps along the transverse slit and adapted to become disconnected by the flaps being swung open along their longitudinal slit.

1,386,448. HYDROCARBON-BURNER. WILLIAM E. THOMAS and HARRY J. THOMAS, Florence, S. C. Filed July 27, 1920. Serial No. 399,231. 5 Claims. (Cl. 158—63.)



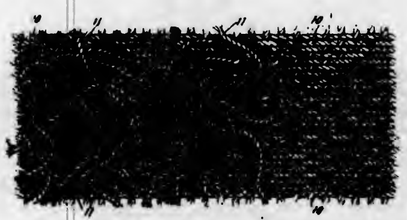
1. A hydro-carbon burner having a base provided with a fuel chamber and means for controlling the admission of fuel to said chamber, a vaporising tube in connection with the fuel chamber and having a plurality of runs disposed in a common vertical plane in diametrical relation to and above the base and a burner tube in connection with the opposite end of said vaporizing tube and disposed beneath said runs of the vaporizing tube.

1,386,449. MOTOR-VEHICLE WHEEL. EDWIN B. TRAFTON, Leavenworth, Kans. Filed Jan. 15, 1919. Serial No. 271,272. 1 Claim. (Cl. 152—42.)



A wheel having a plate rigid with the hub, a rim movable axially of the hub, cushioning means intermediate the hub and rim, a plate movable with the rim in contact with the first plate, one of said plates having an offset providing an elongated substantially radially disposed groove with the side walls thereof inclined, a projection on the other plate extending into the groove, means to cushion engagement of the projection with said walls, and said groove being enlarged relatively to the projection to permit axial movement of one plate relatively to the other plate to a limited extent incidental to shocks.

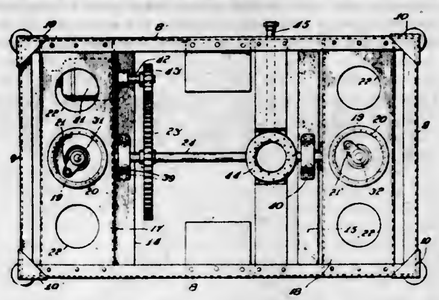
1,386,450. ARTIFICIAL HEDGE, LAWN, AND SIMILAR ARTICLE. RICHARD WALTON TULLY, Sierra Madre, Calif. Filed Oct. 16, 1918. Serial No. 258,352. 3 Claims. (Cl. 41—12.)



1. As an article of manufacture, an artificial hedge, lawn or similar article, comprising a textile fabric, and loose strands secured upon the outer face of the textile fabric and having free ends extending promiscuously from the said face of the fabric, said ends overlying one another and assuming various shapes.

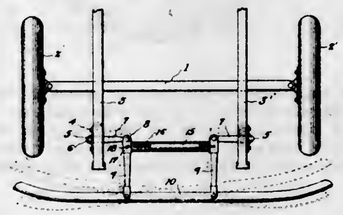
1,386,451. WASHING-MACHINE. WILLIAM A. BROWN, Chicago, Ill. Filed Feb. 5, 1920. Serial No. 356,479. 2 Claims. (Cl. 259—72.)

1. In mechanism of the character described, a pair of relatively oppositely rotatable shafts, an agitating member, a crank carried by each shaft having an operative connection with said agitating member for imparting



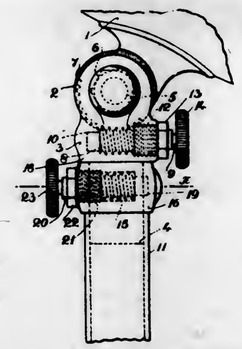
movement to the latter, and means for rotating said shafts.

1,386,452. BUMPER. HUGO DOTZER and SAMUEL G. BARNARD, Seattle, Wash. Filed Jan. 5, 1920, Serial No. 349,536. Renewed June 28, 1921. Serial No. 481,228. 5 Claims. (Cl. 293—55.)



4. The combination with a vehicle frame, of a bumper comprising a pair of inwardly directed arms pivotally mounted at opposite points of the frame, a second set of arms pivotally mounted at the free ends of the first arms and extending forwardly therefrom in parallel relation, a bumper bar mounted by pivotal connections at the outer ends of the latter arms and extending transversely across the end of the frame, a tension spring secured at its opposite ends to the forwardly directed arms and a rigid transverse member having its opposite ends engaging the inner surfaces of the said arms on opposite sides of the spring connections therewith, for the purpose set forth.

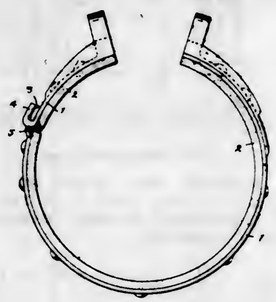
1,386,453. LAMP-BRACKET. EUGENE GEORGE CAMELINAT, Birmingham, England. Filed Dec. 16, 1919. Serial No. 345,420. 3 Claims. (Cl. 248—20.)



1. A lamp bracket for use on motor vehicles comprising two angularly adjustable members, one member provided

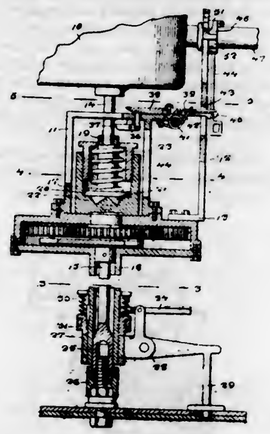
with a housing having one end open, the other member having worm teeth, a worm within the housing of the first-named member and engaging the worm teeth of the other member, and a screw plug closing the open end of said housing and serving as a bearing for one end of the worm.

1,386,454. BAND-BRAKE. VICTOR R. CARLSON, Duluth, Minn., assignor of one-half to Joseph Olson, Duluth, Minn. Filed Nov. 15, 1919. Serial No. 338,280. 2 Claims. (Cl. 188—249.)



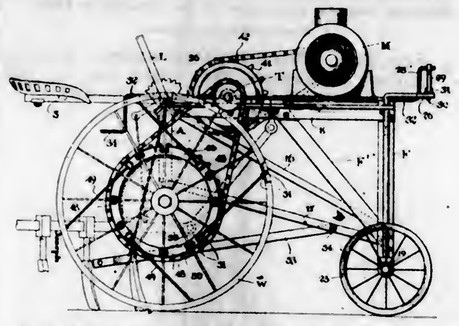
1. A brake band of the character described comprising two separable sections, a T and twin-hook joint connecting the separable ends of the band the neck of said T being bent outwardly sharply to bring the T into proper alinement with the hooks substantially as described.

1,386,455. BOLT-TIGHTENER. HARRY BARTON CLEMENS, Port Orchard, Wash. Filed May 14, 1920. Serial No. 381,391. 8 Claims. (Cl. 81—57.)



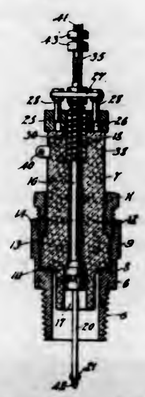
1. The combination with a motor, of a nut tightening machine comprising a casing, a nut engaging member rotatable therein, means connecting the nut engaging member and motor for rotating the former, means controlled by the nut engaging and motor connecting means for controlling the operation of the motor and means yieldingly secured to the casing for holding the latter against rotation.

1,386,456. ATTACHMENT FOR FARMING IMPLEMENTS. JOSEPH FRAZER COOK, San Francisco, Calif. Filed Nov. 10, 1920. Serial No. 423,156. 8 Claims. (Cl. 180—11.)



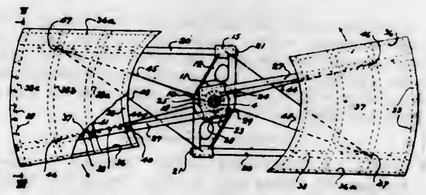
1. An attachment for wheeled farming implements comprising, a frame, beams secured to the frame, a second frame secured to the first frame and said beams, an engine supporting base supported upon and secured to both of said frames, wheels carried by the first frame, and means carried by said beams and the first frame for steering said wheels.

1,386,457. SPARK-PLUG. JAMES STEPHEN COYLE, St. Louis, Mo. Filed June 26, 1920. Serial No. 392,004. 3 Claims. (Cl. 123—169.)



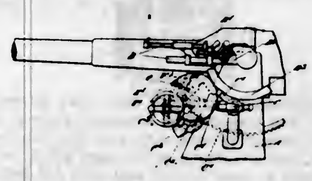
1. In a spark plug, a shell, a hollow core, a stationary electrode, a movable electrode, a washer provided with perforations and carried by said hollow core, and means carried by said movable electrode and movable in the perforations of the washer to guide the movable electrode.

1,386,458. AERONAUTICAL PROPELLER. ROBERT WILLIAM DAVIS, Hiltonia, N. J. Filed July 17, 1918. Serial No. 245,347. 16 Claims. (Cl. 170—167.)



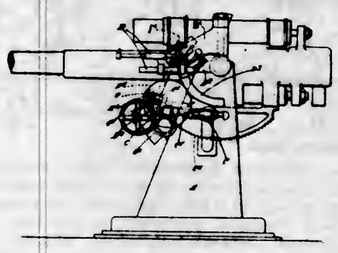
1. A motor driven aeronautical propeller comprising a plurality of blades, and means for conveying waste gases from the motor to said blades and causing them to issue transversely thereof, whereby the gases act as a barrier against the radial flow of the air under the blades.

1,386,459. ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Original application filed Nov. 11, 1918, Serial No. 262,086. Divided and this application filed Mar. 19, 1920. Serial No. 367,296. 2 Claims. (Cl. 89—41.)
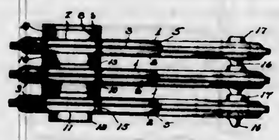


1. In ordnance, the combination with the gun, the gun cradle, the gun carriage, the sight mounted on the cradle, the pointing gear for elevating the gun and the sight together and the ranging gear for elevating the gun without the sight, of a vertical deflection operating device additional to said ranging and pointing gears and mounted in a fixed position on the carriage, and means whereby said device operates upon part of the pointing gear to move the gun in elevation with respect to the sight so as to correct for an advancing or a receding target.

1,386,460. ORDNANCE. ARTHUR TREVOR DAWSON and GEORGE THOMAS BUCKHAM, Westminster, London, England, assignors to Vickers Limited, Westminster, London, England. Filed Nov. 11, 1918. Serial No. 262,086. 4 Claims. (Cl. 89—41.)



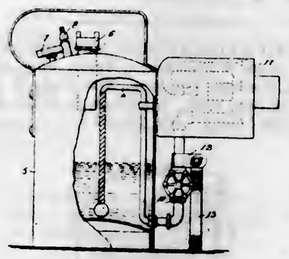
1. In ordnance, the combination with the gun, the gun carriage and the sight, of pointing gear for elevating the gun and the sight together, ranging gear for elevating the gun with respect to the sight and means additional to said ranging and pointing gears and mounted on the carriage for correcting the sight line in a vertical plane for an advancing or receding target.

1,386,461. RADIATOR. WILLIAM A. FINLAYSON, Detroit, Mich. Filed Oct. 2, 1919. Serial No. 327,953. 3 Claims. (Cl. 257—131.)



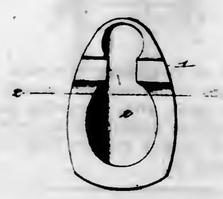
1. A radiator core comprising a series of superposed horizontally disposed units each formed of thin sheet metal and comprising a top wall, a bottom wall, and an intermediate baffle wall, said top and bottom walls and intermediate wall being interlocked at their side and end edges to form a water tight joint and said top and bottom walls being formed with opposed inwardly extending transverse ribs formed by depressing said walls, said ribs engaging the upper and lower sides of the baffle wall and dividing the space inclosed by said top and bottom walls into a series of separate horizontally disposed chambers, said top wall being also formed with an inlet opening for each chamber of said series and the bottom wall being formed with an outlet for each chamber of said series, the several outlets from the several chambers of each unit being connected with the inlets of the several chambers of the unit below, and said baffle wall being formed with an opening within each chamber to provide communication between the upper part of the chamber above the baffle wall and the lower part of the chamber below the baffle wall, said inlet and outlet openings being arranged in staggered relation to said openings in the baffle wall, whereby the fluid to be cooled in passing through the core is caused to travel downwardly through the several vertical rows of superposed chambers and to travel in a circuitous path through each chamber.

1,386,462. TANK. JAMES EDWARD FLITCROFT, Asbury Park, N. J., assignor to Charles E. Schanck, Asbury Park, N. J. Filed May 28, 1920. Serial No. 384,920. 3 Claims. (Cl. 158—46.)



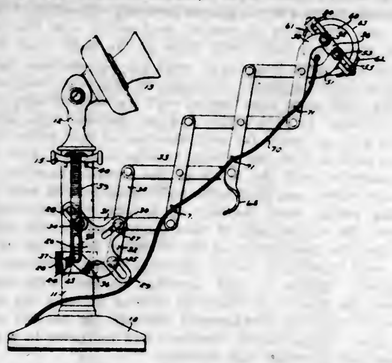
1. A tank, a burner nozzle, a fuel pipe extending between said tank and burner nozzle, said tank resting normally upon its base and serving to support said nozzle, and means attached to said fuel pipe for supporting said tank in an inclined position.

1,386,463. DIATORIC OR PINLESS TOOTH. JOSEPH B. FOSTER, Roanoke, Va. Filed Aug. 14, 1920. Serial No. 403,463. 2 Claims. (Cl. 32—9.)



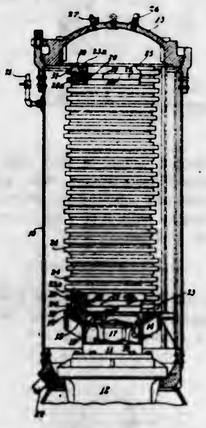
1. A tooth for plates having a curvilinear aperture formed in its rear surface and extending from the cervical end to a point near the cutting edge of the tooth as and for the purpose set forth.

1,386,464. CIRCUIT-CONTROLLING TELEPHONE-RECEIVER SUPPORT. JAMES BRAINERD FURBER, Rahway, N. J. Filed Nov. 1, 1919. Serial No. 334,954. 7 Claims. (Cl. 179—150.)



1. In a telephone, a standard provided with a transmitter support and with a switch having a lever controlling the switch, a receiver, a bracket attached to the standard, an extensible support mounted on the said bracket and carrying at its outer end the said receiver, a member having one end detachably connected with the switch controlling lever, and a pivoted connection between the inner end of the said extensible support and the other end of the said member.

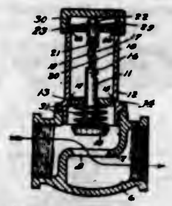
1,386,465. TIRE-VULCANIZING METHOD AND APPARATUS. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 6, 1921. Serial No. 459,045. 30 Claims. (Cl. 18—17.)



1. The method of vulcanizing pneumatic tires which comprises the steps of heating and partially vulcanizing the tire from the inside while preventing the blowing of the rubber by applying pressure to the outer surface of the tire, and then heating the tire from the outer side to further vulcanize it.

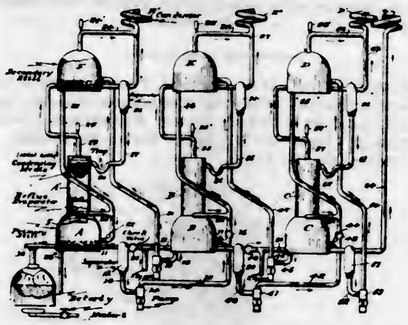
1,386,466. THERMOSTATIC VALVE. JOHN GARTSIDE, Seattle, Wash. Filed July 6, 1920. Serial No. 394,102. 2 Claims. (Cl. 137—92.)

1. A thermostatic valve including a valve casing having a valve seat, a housing communicating with said valve casing, a removable cap for said housing, a valve for said valve seat, a two-part valve stem on said valve and arranged to project into said housing, the two parts of said valve stem being secured together by readily fusible metal, a spring for urging said valve toward said seat, a partition wall in said housing adjacent said removable cap, said partition wall having a central perforation and



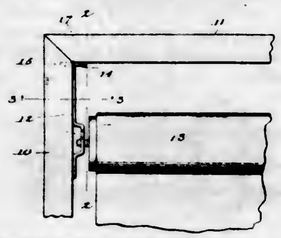
having diametrically arranged slots that intersect said perforation and diametrically arranged grooves that are offset with respect to said slots and that intersect said perforation, and a cross pin in the upper end of said valve stem arranged to pass through said slots and rest in said grooves.

1,386,467. FRACTIONAL-DISTILLATION PROCESS AND APPARATUS. VINCENT T. GILCHRIST, San Francisco, Calif., assignor, by mesne assignments, to Superior Refining Process Co., San Francisco, Calif., a Corporation of California. Filed Mar. 30, 1916. Serial No. 87,860. 16 Claims. (Cl. 196—5.)



1. The method of fractionating vapor consisting in progressively separating the vapor at certain temperatures during its passage to obtain condensates, fractionally distilling each successive condensate by the heat of the vapor previously separated therefrom, whereby an additional condensate and an additional vapor are obtained, and in further heating each successively formed condensate by the heat of vapor of the next previously formed condensate.

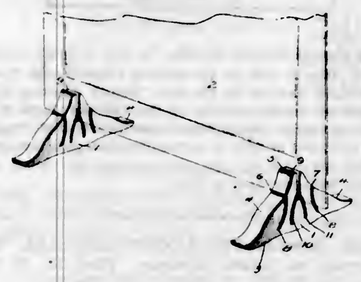
1,386,468. COMBINED BRACKET AND FASTENER. SIMON GOLDNER, New York, N. Y. Filed Dec. 6, 1919. Serial No. 342,917. 2 Claims. (Cl. 156—24.)



2. In a means for attaching shade roller brackets to a window frame, the combination with said bracket, of a

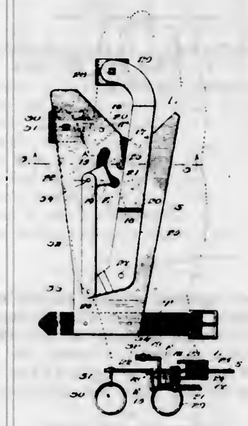
flange bent at a right angle thereto, primary entering and positioning spurs formed on said flange and disposed to project from the bracket opposite to the side at which the flange is disposed, a portion slitted from said flange and bent upwardly at its free end to form a secondary entering and locking spur, said position being normally flexed downwardly to cause the point of said locking spur to lie slightly below the horizontal plane of the upper surface of the flange.

1,386,469. HOLDER OR EXHIBITOR. PAUL R. GOMOLL, Oshkosh, Wis. Filed Sept. 18, 1920. Serial No. 411,139. 4 Claims. (Cl. 40—146.)



1. In a holder or exhibitor for pictures, cards and analogous articles, a support having a comparatively wide base and integral, resilient sides and provided with a plurality of recesses for retaining articles of various thicknesses in various angular positions.

1,386,470. CLIPPING DEVICE. WALTER GOWER, Tampa, Fla. Filed July 29, 1920. Serial No. 399,839. 3 Claims. (Cl. 30—24.)

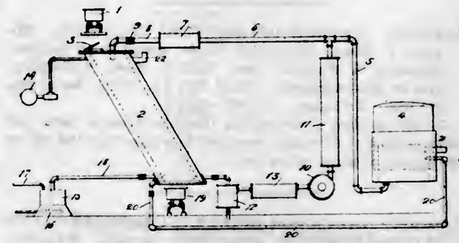


2. A clipping device of the character described comprising, a supporting plate having a recess formed in one end thereof, a stationary cutting element secured to the plate adjacent the recess and having a portion thereof spaced from the plate, a movable cutting element pivotally supported upon the plate in a manner to move across said recess and disposed at the same side of the plate as the stationary cutting element, and means arranged at the opposite side of the plate from the cutting elements and extending into said recess for actuating the movable cutting element.

1,386,471. METHOD OF REFINING CACAO-OIL. JAMES N. TUTTLE, Lynn, and JOSEPH W. PHELAN, Medford, Mass., assignors to Kalmus, Comstock & Westcott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 15, 1919. Serial No. 311,056. 3 Claims. (Cl. 87—12.)

3. The method of refining cacao oil which consists in agitating the oil with alkalized fullers' earth, and filtering off the alkalized fullers' earth from the mixture.

1,386,472. PROCESS OF PREPARING FUEL. CHARLES H. URQUHART, Newark, N. J. Filed Sept. 23, 1919. Serial No. 325,771. 6 Claims. (Cl. 44—1.)



6. The process of preparing fuel from low grade coal which comprises opening up cracks in the coal by heating, introducing a suitable binder into the cracks, and fusing the coal and binder.

1,386,473. FUEL. CHARLES H. URQUHART, Newark, N. J. Original application filed Sept. 23, 1919, Serial No. 325,771. Divided and this application filed Oct. 28, 1920. Serial No. 420,274. 4 Claims. (Cl. 44—1.)

1. As an article of manufacture, a fuel made from low grade lignitic coal and a binder fused together, said fuel being in substantially the lump form in which the coal comes from the deposit.

1,386,474. FLASHLIGHT. JOSEPH VINCE, Brooklyn, N. Y. Filed June 26, 1920. Serial No. 392,138. 9 Claims. (Cl. 240—8.5.)



2. A light of the class described including a shell, a lamp thereon, a battery removably inclosed by said shell, said lamp presenting a contact opposed to one pole of the battery, conductor means on said battery externally thereof and having means to hold it to the battery independent of the shell to be removable with the battery, said conductor means extending lengthwise of the battery and making contact at its rear end with the other pole of the battery, and means extending through said shell at a side thereof for controlling the circuit through the medium of said conductor means.

1,386,475. MARGARIN AND METHOD OF MAKING THE SAME. EDWARD J. WALL, Cambridge, and JOSEPH W. PHELAN, Medford, Mass., assignors to Kalmus, Comstock & Westcott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 15, 1919. Serial No. 311,041. 9 Claims. (Cl. 99—13.)

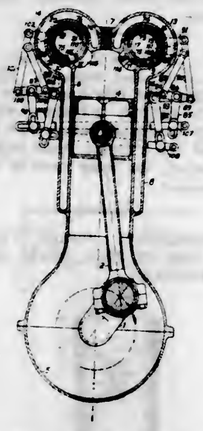
2. The method of making margarin which consists in churning milk or cream to the point of incipient butter formation, adding melted cacao oil and continuing the churning until the butter has completely come.

7. A margarin which consists in an emulsion of cacao oil and butter fat wherein the former is the disperse phase and the latter the continuous phase.

1,386,476. METHOD OF REFINING CACAO-OIL. EDWARD J. WALL, Cambridge, Mass., assignor to Kalmus, Comstock & Westcott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 15, 1919. Serial No. 311,054. 3 Claims. (Cl. 87—12.)

3. The method of destroying the objectionable taste and odor of cacao oil which consists in subjecting the oil to the action of ultra violet rays.

1,386,477. VALVE FOR INTERNAL-COMBUSTION AND FLUID-PRESSURE ENGINES. EDWARD WALLACE, Cleveland, Ohio. Filed Jan. 8, 1916. Serial No. 71,033. 6 Claims. (Cl. 123—99.)

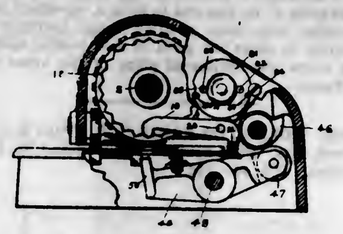


1. The combination with an engine cylinder, of a valve mechanism comprising a casing with a curved seat and connected with the engine cylinder by a port, a pair of curved valves concentrically arranged in the said casing, the valves having ports, means for moving the valves to cause their ports to register with each other and with the port leading to the engine cylinder with a frequency required by the cycle on which the engine operates, and an adjustable curved valve mounted between the said movable valves and arranged to vary the effective size of the opening to the engine cylinder, the latter valve being normally stationary, and means for adjusting the said normally stationary valve.

1,386,478. NITROSTARCH EXPLOSIVE. CHARLES E. WALLER, Allentown, Pa., assignor, by mesne assignments, to Trojan Powder Company, New York, N. Y., a Corporation of New York. Filed Jan. 15, 1919, Serial No. 271,310. Renewed Jan. 21, 1921. Serial No. 439,056. 5 Claims. (Cl. 52—11.)

1. An explosive comprising nitro-starch, ammonium nitrate, calcium nitrate and water, substantially as and for the purpose described.

1,386,479. CHECK-WRITING MACHINE. ALBERT M. WARD, Rochester, N. Y. Filed Aug. 14, 1920. Serial No. 403,588. 29 Claims. (Cl. 197—6.4.)



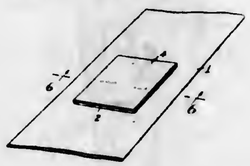
1. In a check-writing machine, a type cylinder having a series of lines of type on the outside thereof, said lines being arranged parallel to the axis thereof, a series of parallel grooves on the outside of the cylinder, each of said grooves having a length complementary to the length of one of the lines of type, a series of characters corresponding with the lines of type, and a series of dents corresponding with the lines of type.

1,386,480. HOLDER FOR HANGING ARTICLES. WILLI WESTFEHLING, Lubeck, Germany. Filed Oct. 28, 1919. Serial No. 334,101. 2 Claims. (Cl. 248—22.)



1. A holder comprising clamping members with an interposed spring, a supporting arm carried by one of said members, the pivot of said members having an end extended beyond one of said members and angularly disposed.

1,386,481. PIN-TICKET. CHARLES FREEMONT WHITE, New York, N. Y. Filed Feb. 16, 1921. Serial No. 445,436. 1 Claim. (Cl. 40—25.)

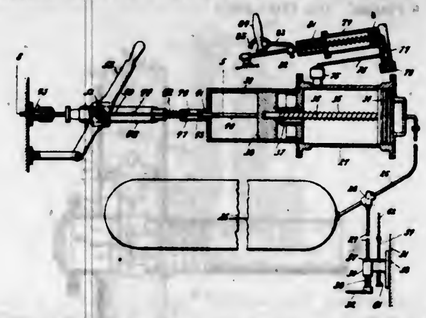


A pin ticket comprising a ticket adapted to be located against one side of the material, a staple adapted to have its ends passed through the material from the side opposite that on which the ticket is located and through the ticket and bent down upon the ticket, and an indicia sheet affixed to the face of the ticket and concealing the ends of the staple.

1,386,482. TRAIN CONTROL. ROBERT L. YOUSE, Philadelphia, Pa., assignor of one-half to Aaron Hendrick, Philadelphia, Pa. Filed Aug. 28, 1918. Serial No. 251,770. 2 Claims. (Cl. 246—188.)

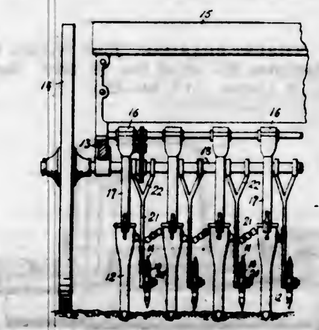
1. In a train control apparatus, a compressed air tank on the locomotive, a cylinder also on the locomotive, a pipe connecting the tank with the cylinder, a valve in said pipe, a stem connected with the valve, an arm on the valve adapted to engage an obstruction along the track to cause the valve to open, a spring for normally holding the valve in closed position, ratchet mechanism for holding the valve

in open position against the action of the spring, manually operated means for releasing the ratchet mechanism to



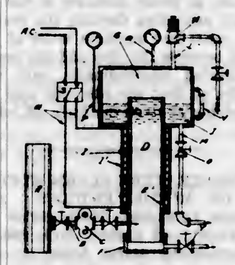
permit the spring to close the valve, a piston in the cylinder and means connected therewith for closing the throttle and applying the brakes.

1,386,483. WEEDER ATTACHMENT. CHARLES HOWARD ADAMS, Porter, Pa. Filed Jan. 14, 1920. Serial No. 351,886. 2 Claims. (Cl. 97—3.)



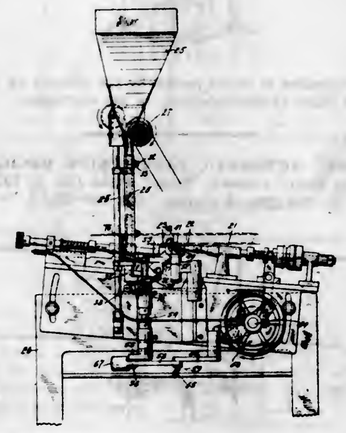
1. In a device of the class described, a carrying frame, a support carried by the frame, seed dropping shoes in spaced relation, radius bars forked at one end and swinging by the forked portion upon said support and prevented thereby from lateral displacement, said radius bars being directed respectively toward the spaces between the shoes, a toothed drum mounted for free rotation upon each radius bar, and means for simultaneously adjusting said shoes and the radius bars and drums carried thereby, vertically.

1,386,484. DISTILLING APPARATUS. CHARLES G. ADSIT, Atlanta, Ga. Filed Sept. 14, 1920. Serial No. 410,289. 20 Claims. (Cl. 204—31.)



1. Distillation apparatus comprising a metallic retort, a primary coil surrounding the same but insulated therefrom, means for supplying liquid to the retort, and means for recovering the vapors distilled therefrom upon the heating of the retort by induced current following the flow of alternating current through the primary coil.

1,386,485. CORK-FEEDING DEVICE. THOMAS ALLATT, Westfield, N. J., assignor to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Apr. 29, 1920. Serial No. 377,667. 1 Claim. (Cl. 142—20.)



A cork cutting machine, including a work-holder consisting of two arbors for engaging a cork at its flat faces and holding the same substantially horizontally, a tube in which the corks art stacked vertically one on top of another, said tube being spaced from said arbors and provided adjacent its lower end in the plane of said arbors with a discharge opening, a spindle swiveling around a vertical pivot having gripping jaws adapted to engage the corks in said tube at their cylindrical faces, and means for oscillating said spindle around its pivot, thereby causing the same to move from said tube to said arbors, and vice versa, and giving said spindle during each movement a quarter of a turn around its own axis, whereby the corks received in vertical position are presented to said arbors in horizontal position.

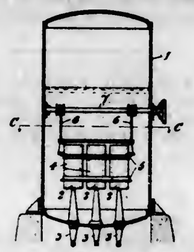
1,386,486. PROCESS FOR EXTRACTING POTASSIUM SALTS. JOHN ALLINGHAM, Los Angeles, Calif. Filed Aug. 17, 1918. Serial No. 250,348. 6 Claims. (Cl. 23—22.)

1. The herein disclosed process for extracting potassium, comprising, first, the admixing of the finely divided potassium-bearing rock with common salt and sulfur; second, reducing such admixture in a furnace by heating the same to a suitable temperature under air regulation therein, the maintenance of which reducing action is assisted by the presence of said sulfur; third, the lixiviating of the mass with water after its removal from the furnace, and, fourth, the recovery of the resultant potassium chlorid by crystallization.

1,386,487. ELECTRICAL STEAM AND HOT-WATER BOILER. NILS RICHARD FORSSBLAD, Västerås, Sweden. Filed June 10, 1920. Serial No. 388,033. 6 Claims. (Cl. 219—40.)

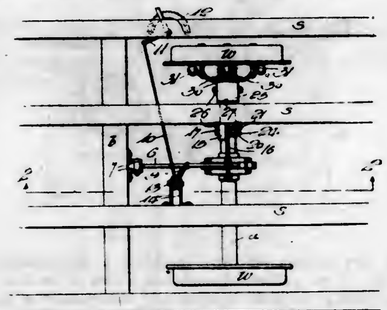
1. A method of controlling the output of electrical steam or hot water boilers of the type wherein the heat is produced by passing an electric current through the water

between submerged electrodes each surrounded by an insulating tube, consisting in varying the length of the in-



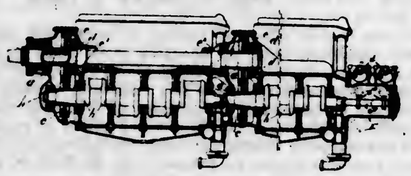
closed columns of water passed by the current by displacing the tubes axially relatively to the electrodes.

1,386,488. AUTOMATIC CAR-BRAKING MECHANISM. LOUIS BERK, Alstown, Wash. Filed July 1, 1920. Serial No. 393,226. 8 Claims. (Cl. 188—181.)



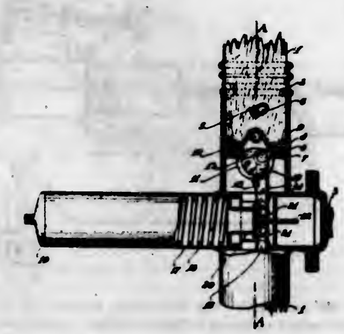
1. In a braking mechanism for securing an axle and wheels of a railway-car against rotation, a sleeve around said axle, centrifugally actuated means to move said sleeve along said axle, a part of a brake mounted between and rotatable with said wheels, a part of a brake mounted for movement into engagement with the first said part of the brake for coöperating therewith to stop rotation of the wheels, and means including a lever connected to and operable by said sleeve for effecting said movement of the second said part of the brake.

1,386,489. MOTOR MECHANISM. MARC BIRKIGT, Bois-Colombes, France. Filed May 31, 1917. Serial No. 172,099. 5 Claims. (Cl. 123—197.)



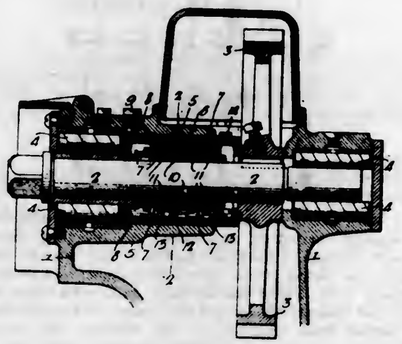
1. The combination of a plurality of engines arranged in tandem relation and having crank casings rigidly connected, the rear end of the casing of the first engine constituting a forward bearing of the crank shaft of the second engine, a counter shaft common to the said engines and adapted to be directly connected to a driven element, and means connecting the driving shafts of the engine individually to said common counter shaft for transmitting at all times the full power generated by the combined engines to the counter shaft.

1,386,490. PROPELLER. ARNO BOEHNER, Scheveningen, Netherlands. Filed Oct. 20, 1920. Serial No. 418,272. 8 Claims. (Cl. 170—163.)



1. A propeller having the blades thereof movable radially under centrifugal force, a spring resisting said movement, and levers intermediate the blades and spring to transmit the outward movement of the blades to the spring in reduced power ratio.

1,386,491. THRUST-BEARING. JOHN WILSON BROWN, Jr., Philadelphia, Pa. Filed Dec. 28, 1920. Serial No. 433,611. 3 Claims. (Cl. 64—25.)

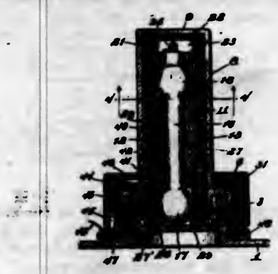


3. The combination in a thrust bearing of a frame, a fixed bearing located in the frame, and means for holding the bearing to the frame, said bearing having a series of internal ribs spaced apart, a slot extending longitudinally through the ribs and a portion of the bearing so as to allow a lubricant to freely circulate in the bottom of the bearing, a shaft extending through the bearing; a sleeve secured to the shaft and having a series of ribs extending into the spaces between the ribs and the bearing, the said sleeve being slotted longitudinally, said slot extending through the ribs so that the ribs will take from the bottom of the bearing a given quantity of lubricant as the shaft rotates.

1,386,492. TEMPERATURE-ALARM SYSTEM FOR RADIATORS OF MOTOR-VEHICLES. ABILIO M. DA SILVA GRAVES, Cambridge, Mass. Filed Jan. 16, 1920. Serial No. 351,811. 7 Claims. (Cl. 200—141.)

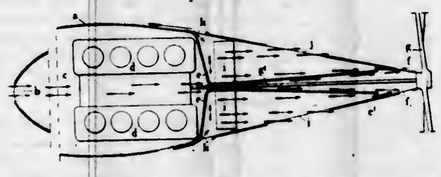
1. In a thermostatic alarm device, a casing adapted to be applied to a radiator and having an open portion facing the radiator, a thermostatic device in said casing and including a portion influenced by temperature changes

in the radiator arranged in proximity to said opening, and a conducting surface closing said opening and form-



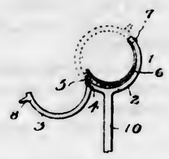
ing a thermic-conductor between said temperature influenced portion of the thermostat and the interior of the radiator.

1,386,493. DEVICE FOR COOLING THE MOTORS OF AEROPLANES OR DIRIGIBLE AIRCRAFT. HENRI RAYMOND GUYOT, Paris, France, assignor to Société R. Guyot & Cie., Paris, France. Filed Jan. 5, 1917. Serial No. 140,724. 12 Claims. (Cl. 244—31.)



3. A constructional form of the apparatus described, including a casing having a motor chamber, a forward air inlet into the motor chamber and rear air outlets, means forming an air passage extending rearwardly from the motor chamber to the air outlets, a propeller at the rear having its shaft extending through the passage, and a radiator at the rear of the motor chamber and in communication with the air outlets, said casing having air inlets communicating with the radiator.

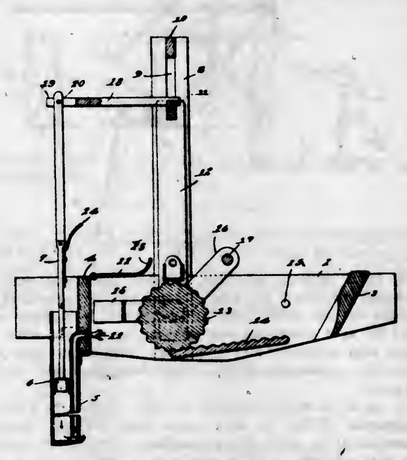
1,386,494. CIGARETTE-HOLDER. CRANDALL R. HANEY, Manson, Iowa. Filed Mar. 13, 1920. Serial No. 365,555. 3 Claims. (Cl. 131—10.)



2. A cigarette holder comprising a ring consisting of a stationary portion and a movable portion pivoted together, a spring for holding the movable portion in either of its two positions, a finger piece connected to the movable portion, a rod connected to the stationary portion, and a finger ring connected to the rod.

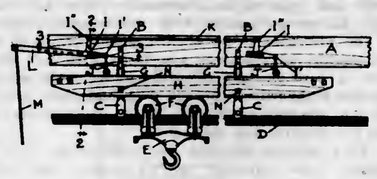
1,386,495. WASHING-MACHINE. SIMON J. HARDING, West Baldwin, Me. Filed Feb. 10, 1920. Serial No. 357,581. 1 Claim. (Cl. 68—20.)

In a device of the class described, in combination with a base, opposed uprights extending from said base, an oscillatory frame supported by said uprights, a ribbed rubbing board beneath the frame and secured to said base, a roller carrier by said frame to co-engage with said rubbing board, a pump secured to said base, connecting means for operating said pump simultaneously with said



roller, of a deflector member hingedly secured to the base and means secured to said pump connecting means to close the deflector upon the downward movement of said connecting means after said deflector has been raised by the roller aforesaid.

1,386,496. BRAKE FOR OVERHEAD CARRIERS. PAUL M. HASSLER, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a Corporation of Iowa. Filed May 10, 1920. Serial No. 380,233. 12 Claims. (Cl. 188—42.)



1. In brakes for carriers running on an overhead track, a timber flexibly located in a position above and approximately parallel with the track, and adapted to come in contact by gravity with the wheels of the carrier to arrest its movement on the track.

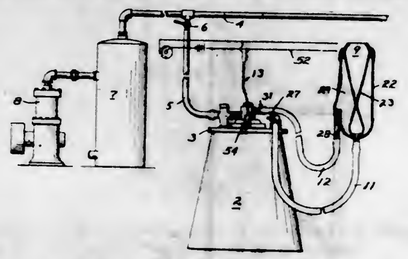
1,386,497. NON-FLAMMABLE VOLATILE LIQUID. ALBERT HENNING, London, England. Filed Jan. 5, 1921. Serial No. 435,176. 2 Claims. (Cl. 252.)

1. A non-flammable volatile liquid consisting of a mixture of methyl chlorid with methyl bromid.

1,386,498. MILKING-MACHINE. PALMER B. HEWLETT, Hollister, Calif. Filed Apr. 7, 1919. Serial No. 287,944. 12 Claims. (Cl. 31—101.)

1. In a milking machine, a chambered casing, a conduit connected to said casing, means for vacuumizing said conduit, a second conduit connected to the casing, a pair of relatively movable valves in said casing for alternately placing the second conduit in communication with the

open air and with said vacuumized conduit, a plunger arranged below and adapted to actuate said valves, an armature secured to said plunger and an electromagnet operatively associated with said armature and disposed below said casing.



4. In a milking machine, a milk receptacle cover, a pulsator mounted on said cover, an electromagnet arranged on the under side of said cover, a plunger actuated by said electromagnet adapted to contact with and raise said pulsator, and a housing forming a tight joint with the underside of the cover inclosing said electromagnet.

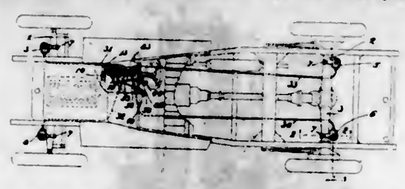
7. In a milking machine, a milk receptacle cover, a chambered casing on said cover, said chamber being in communication with the atmosphere, a conduit connecting said chamber with a teat cup, a valve stem in said casing, a valve fixed to said stem adapted to control communication between said chamber and said vacuumized conduit, a valve movably mounted on said stem adapted to control communication between said chamber and the atmosphere, an electromagnet arranged below said stem and a plunger in said electromagnet adapted to contact with and raise said stem.

10. In a milking machine, a milk receptacle, a vacuum pump connected to said receptacle and adapted to maintain a vacuum therein, a flexible teat cup, a rigid casing surrounding said teat cup, a conduit connecting said receptacle and said teat cup, a conduit connecting the casing and the vacuum pump, a pulsator in said second conduit and adapted to alternately place said second conduit in communication with the vacuum pump and with the atmosphere, an electromagnet arranged below said pulsator, an armature associated with said electromagnet, a core on said armature alined with said pulsator and arranged to contact with and move said pulsator, an electric circuit for said electromagnet and means for interrupting said circuit.

12. In a milking machine, the combination of a milk receptacle cover provided on its upper face with a chambered casing, means for inducing a vacuum in said casing, a valve stem reciprocable in said casing, an electromagnet carried by and beneath said cover, a plunger actuated by said electromagnet, said plunger being disposed in operative relation to said valve stem, a valve fixed on said stem, a second valve loosely carried by said stem, a seat for each of said valves, and a teat cup conduit communicating with said chamber between said seats, the actuation of said valve by said electromagnet causing said conduit to be alternately connected with the vacuum in said casing and with the atmosphere.

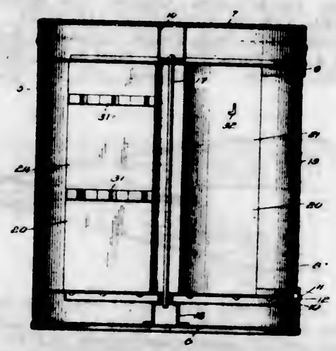
1,386,499. AUTOMOBILE-JACK. SIDNEY HEYMANN, New York, N. Y., assignor of one-half to Philip S. Heymann, Pittsburgh, Pa. Filed Apr. 30, 1920. Serial No. 377,762. 4 Claims. (Cl. 254—86.)

1. In automobile jacks, the combination with a base provided with standards, of a worm shaft journaled in the said standards, a clutch shaft having one end journaled in one of the said standards and the other end journaled in the end of the said worm shaft, a clutch member secured to the said worm shaft, a clutch member driven by the said clutch shaft and movable along the said shaft and arranged to engage the said member on the worm shaft, a lever and connections for operating the said movable clutch member, a gear-operated jack, a



worm pinion supported by the said base on one side of the said worm shaft and in mesh therewith, and a flexible shaft attached to the said pinion and connected with the gearing of the said jack to operate the same.

1,386,500. CABINET. THOMAS J. HILE, Bainbridge, Ga., assignor of one-half to H. G. Bell, Bainbridge, Ga. Filed June 8, 1920. Serial No. 387,304. 1 Claim. (Cl. 211—7.)



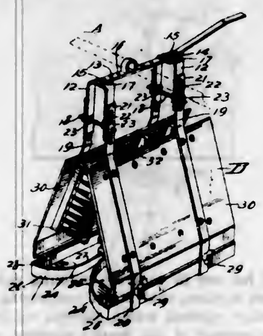
In a cabinet of the character described comprising a cylindrical body having a closed bottom and removable top, a doorway formed in said body, door guides one arranged above and the other below the said doorway, anti-friction rollers disposed between the lower guide and the wall adjacent thereto of the body, a slidable door correspondingly shaped to the body and movable upon the anti-friction rollers for opening and closing the doorway, raised spacing members constituting bearings formed concentrically of said top and bottom of the cabinet, a rotatable section vertically supported in said bearings, said section having a plurality of equal, triangular compartments and spaced top and bottom disks therefor and means for positioning and suspending various articles within said compartments.

1,386,501. BOTTLE ATTACHMENT. FRED A. HITE, NAPA, Calif., assignor to JOHN A. SANBORN, Oakland, Calif. Filed Aug. 8, 1917. Serial No. 184,610. 1 Claim. (Cl. 40—4.)



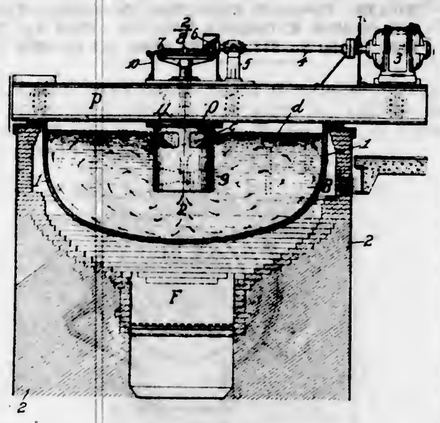
The combination with a bottle, of a sheet of material adhesively secured thereto and forming with the side thereof a pocket, and a lining in said pocket in which the handle of a brush may be disposed.

1,386,502. BOLL-WEEVIL CATCHER. REED R. HITT, Energy, Tex., assignor, by direct and mesne assignments, to Hitt Boll Weevil Machine Company, a Corporation of Texas. Filed Dec. 16, 1919. Serial No. 345,322. 3 Claims. (Cl. 43—133.)



1. A device of the character described comprising a pair of inverted substantially U-shaped hangers, a connecting bar adjustably secured to said hangers, pairs of downwardly divergent arms adjustably connected to the hangers and having inwardly and upwardly extending extension rests, a pair of pans supported on said rests, means for detachably securing the pans to the arms, and plant brushing and boll weevil guiding means carried by the arms above the pans.

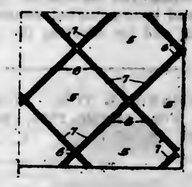
1,386,503. PROCESS OF TREATING LEAD BULLION. GEORGE P. HULST, Hammond, Ind., and MILO W. KREJČI, Chicago, Ill. Filed Feb. 16, 1920. Serial No. 359,069. 18 Claims. (Cl. 75—15.)



1. In the treatment of lead bullion, the process which consists in subjecting a bath of molten lead to agitation, and simultaneously feeding thereto without oxidation a suitable reagent operating to segregate therefrom the impurities in the form of dross.

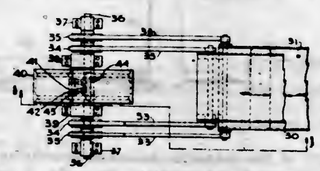
1,386,504. PRINTING-BLOCK FOR BLOCK-PRINTING MACHINES. RALPH G. JACKSON, Chester, Pa., assignor to Congoleum Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 16, 1920. Serial No. 351,874. 1 Claim. (Cl. 101—36.8.)

A rule for applying a body of pigment to a surface in a single line, said rule having two narrow surfaces separated by a groove of such depth as to hold a given amount of pigment so that, when an impression is made,



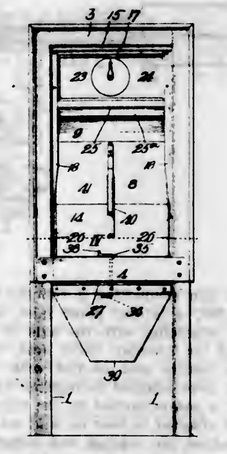
the pigment will be deposited, leaving the edges of the impression comparatively sharp.

1,386,505. MEANS FOR OPERATING RECIPROCATING CONVEYERS OR SCREENS. RICHARD S. JACOBSEN, Chicago, Ill., assignor to Jacobsen & Schraeder, Incorporated, Chicago, Ill., a Corporation. Filed Sept. 11, 1916. Serial No. 119,584. 24 Claims. (Cl. 74—14.)



1. Means for operating reciprocating conveyers or screens, comprising in combination, a pair of bearings, a uniformly rotating power-driven pulley centrally mounted on said bearings, a non-uniformly rotating shaft extending through said bearings and through said pulley and to one side of the axis of revolution of the same, and connecting means for said pulley and shaft, transmitting to said shaft a motion substantially as described.

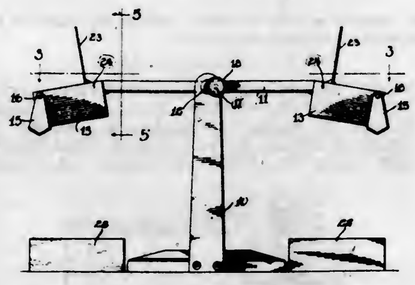
1,386,506. SELF WEIGHING AND SACKING MACHINE. JAMES E. JEWELL, Kansas City, Mo. Filed July 21, 1919. Serial No. 312,224. 2 Claims. (Cl. 265—68.)



1. A self weighing and sacking machine comprising a hopper having a front discharge opening, a vertically slidable door controlling said opening, a weighing device secured forward of the upper portion of the hopper, a bar pivotally suspended from the weighing device, a pair of rods depending from said bar, a receptacle secured to

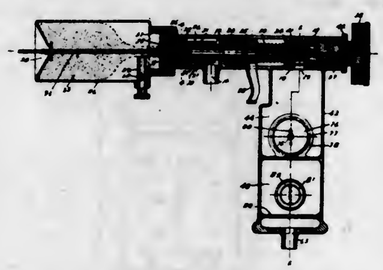
the lower ends of said rods, a hinged dumping bottom for said receptacles, a rock shaft having a crank arm for underlying and holding the bottom of the receptacle in closed position, and lever-actuated means for limiting the opening movement and for effecting the closing movement of said bottom.

1,386,507. MECHANICAL TOY. JONATHAN S. JONES, Oak Park, Ill. Filed July 26, 1920. Serial No. 399,139. 11 Claims. (Cl. 46—37.)



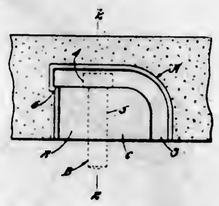
1. A toy of the character described embodying a beam pivotally mounted intermediate its ends, a receptacle carried by the beam on each side of and spaced from the pivot, each of said receptacles adapted to receive a supply of material and having a discharge outlet, and freely swinging cut-offs individual to the receptacles for opening and closing the respective outlets, the positions of said cut-offs with relation to the respective receptacles being controlled by the movements and positions of the receptacles.

1,386,508. PAINT-GUN. WALTER KELLY, Boston, Mass. Filed Nov. 1, 1920. Serial No. 420,935. 19 Claims. (Cl. 91—45.)



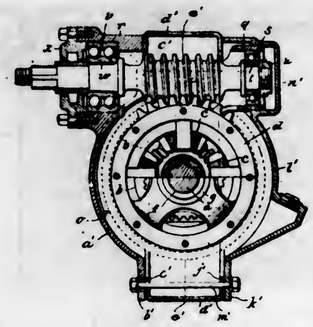
1. A paint gun comprising a tubular barrel having a lateral air inlet, a lateral paint inlet, and an air and paint outlet, coinciding with the axis of the barrel, and surrounded by an annular valve seat, a longitudinally movable tube within and coaxial with the barrel, and having an air port adapted to register with the air inlet of the barrel, a nozzle carried by the tube and having an annular valve adapted to bear on said seat, said tube and nozzle forming an air conduit and coöperating with the barrel in forming an annular paint conduit surrounding the air conduit, said annular valve and annular valve seat being adapted to prevent the delivery of paint to the barrel outlet, a spring which normally projects the tube and barrel to close the tube air port and the nozzle valve, and means for manually retracting the tube and nozzle to open said air port and valve.

1,386,509. INSERT FOR CONCRETE CONSTRUCTION. EDWIN W. KIRMES, Melrose, and ARTHUR C. WALWORTH, Jr., Newton, Mass. Filed May 19, 1919. Serial No. 297,987. 1 Claim. (Cl. 72—105.)



An insert for use in concrete building construction to hold a headed member, said insert comprising a shell having an entrance opening which extends up from the bottom for the passage of the headed member, said opening being widened at one end to form a T-shaped passage, said widening continuing up on one side of the chamber and thence across the top, forming at the top horisontal wing portions to receive and support the head of said member, the inner face of the wall of the horisontal wing portions of the chamber extending laterally beyond the plane of the outer face of the vertical side walls of the chamber which receives the shank portion of the headed member, thereby allowing the concrete in which the insert is embedded to extend underneath the horisontal wing portion of the chamber, so that the horisontal lower wall thereof is supported directly by the concrete and the strain of the load is transmitted to the concrete.

1,386,510. REAR-AXLE STRUCTURE FOR MOTOR-VEHICLES. EDWARD L. KRAFT, York, Pa., assignor of one-half to Allen R. Cosgrove, York, Pa. Filed Apr. 29, 1920. Serial No. 377,603. 9 Claims. (Cl. 74—99.)



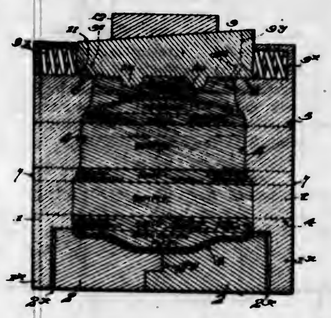
1. A rear-axle drive embodying a worm, a worm-gear and planetary gearing constituting the differential, a casing for said gearing connected to the axle housing and embodying a front wall carrying bearings for said worm-gear and also supports for the rear as well as the front bearings of the worm, and a rear cover-plate removable from the casing separately from said bearings, the opening covered by the rear cover-plate being sufficiently large to permit the removal of the worm-gear and its connected planetary gears while the worm and its bearing-supports are in their operative position.

1,386,511. LADDER ATTACHMENT. EMIL C. KRAHL, Cleveland, Ohio. Filed July 26, 1919. Serial No. 313,613. 1 Claim. (Cl. 228—60.)



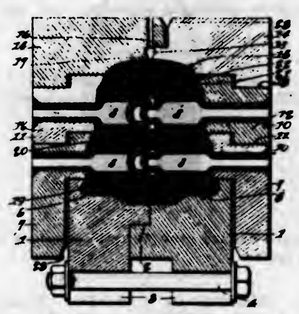
A new and improved lifting or hoisting device for attachment to the upper portion of a ladder comprising two base members adapted for attachment to the side members of the ladder, members secured to the base members and extending outwardly sidewise from said base members, a crook shaped derrick member secured to each sidewise extending member, a cross bar extending between and supported by the upper ends of the derrick members, pulleys carried by said cross member, platform forming members extending rearwardly from each cap member and ropes or cables having their ends connected to said cap members and extending over said pulleys and arranged to form slings.

1,386,512. TIRE-MOLD. HENRY M. LAMBERT, Portland, Oreg. Filed Feb. 19, 1919, Serial No. 278,018. Renewed Feb. 4, 1921. Serial No. 442,590. 10 Claims. (Cl. 18—38.)



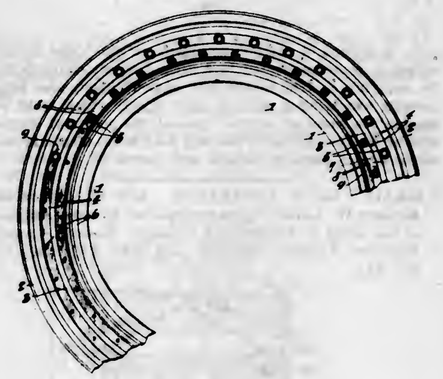
1. In a tire mold, the combination with the base and side plates of the mold, a sectional annulus for covering the gap between the side plates, said annulus having a tapered exterior surface, and a tapered band or ring adapted to be forced into engagement with said tapered surface to secure the annulus sections together and hold the same in position with respect to the side plates, said side plates having core pipe holes and core pipes passed through said holes from one plate to the other.

1,386,513. TIRE-MOLD. HENRY M. LAMBERT, Portland, Oreg. Filed Jan. 2, 1920, Serial No. 348,758. Renewed Feb. 4, 1921. Serial No. 442,591. 7 Claims. (Cl. 18—38.)



4. In a tire mold, in combination with a base and tread forming plates, of separable section side plates and lugs relatively fixed to said side plates and projecting into the chamber of the mold, substantially as shown and for the purpose described.

1,386,514. TIRE-MOLD. HENRY M. LAMBERT, Portland, Oreg. Filed Jan. 2, 1920. Serial No. 348,759. Renewed Feb. 4, 1921. Serial No. 442,592. 2 Claims. (Cl. 18—38.)



1. In tire molds having base and tread forming sections and side plates to give form to the sides of a tire, said side plates having annular grooves adjacent to the molding face, core rods adapted to lie in said grooves and project from one side plate to the other, and spacer blocks carried by the side plates for spacing the core rods apart.

1,386,515. CROCHET-BALL HOLDER. LEONARD M. LARSON, Tacoma, Wash. Filed Nov. 17, 1920. Serial No. 424,731. 5 Claims. (Cl. 242—136.)

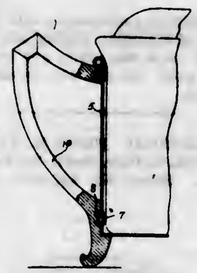
2. A crochet ball holder having a plate and oppositely extending clamping arms and hangers, said hangers having bearing openings in their terminals, and a pintle having oppositely extending arms mounted in said bearing openings in the extremities of said hangers, said spindle be-

ing, adapted for terminal arrangement adjacent to said plate, said plate being concaved toward the clamping arms



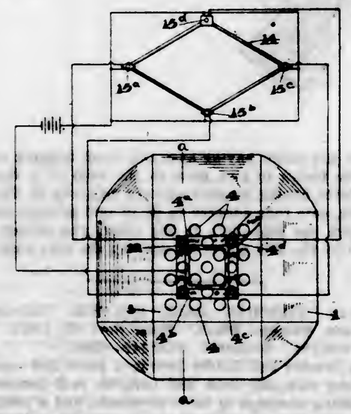
and convexed toward said pintle to engage a ball of yarn upon the latter.

1,386,516. METHOD OF CASTING. WILLIAM LEAHY, New York, N. Y. Filed Dec. 4, 1920. Serial No. 428,346. 4 Claims. (Cl. 22—203.)



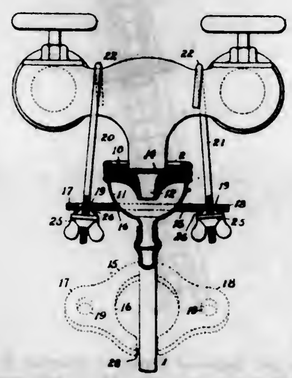
1. A method of casting, by means of which one metallic object is to be connected to a second object characterized by applying a rivet to the last named object, and subsequently attaching a mold to said object, which mold will engage the same at points adjacent the points of disposition of the rivets, and in pouring fluid metal into said mold to cause said metal to engage said rivets.

1,386,517. GAME APPARATUS. ROY W. LELLIS and EUGENE W. ADAMS, Toronto, Ontario, Canada, assignors of one-third to Frederick P. Hambly, Toronto, Canada. Filed Oct. 7, 1920. Serial No. 415,318. 3 Claims. (Cl. 46—61.)



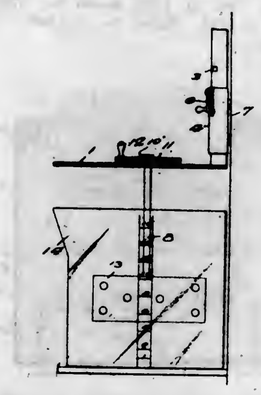
1. In game apparatus, the combination of a board having a plurality of openings therein large enough for the passage of balls; a common movable ball support located below said board and adapted to retain balls in said openings; releasable means for holding the ball support in ball supporting position, and a trough adapted to receive balls from the ball support when the latter is moved from its ball supporting position.

1,386,518. BATH-SPRAY. HENRY F. LOOMIS, Reading, Pa. Filed Feb. 11, 1920. Serial No. 357,855. 1 Claim. (Cl. 285—108.)



A freely rockable bath-spray faucet attachment comprising a hemispherical faucet-contact cup having a washer of resilient material peripherally fixed to the rim thereof, said washer having a conically apertured central portion forming a faucet seat and yieldingly depending into the hollow of the cup; an apertured clamping plate rockably seated upon the curved wall of said cup; and faucet engaging clamping hooks having clamping nuts adjustably seated in said plate.

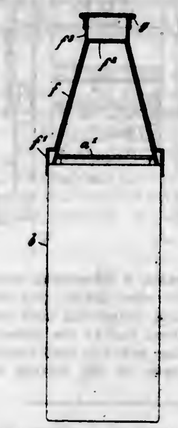
1,386,519. CHEMICAL-MIXING DEVICE. ERNEST F. MERCER, Cleveland, Ohio. Filed Sept. 24, 1917. Serial No. 192,948. 1 Claim. (Cl. 220—55.)



In an apparatus of the class described a supporting structure including an upstanding member carrying a laterally extending receptacle supporting shelf, a tubular vertically disposed guide fixed to said structure above said shelf and overhanging the shelf, said guide being angular in cross section and having an opening in one corner, a vertically movable cover, a standard carried by said cover and of the same cross sectional contour as said guide being provided at one corner with a plurality of ratchet-like notches, said standard being slidably mounted

in said guide and the notches in the standard positioned to register with the opening in the guide, and a spring pressed laterally swinging catch mounted on the guide and having a nose extending into the opening thereof for engagement with one of said notches to lock the standard in adjusted position relative to the guide and thereby hold the cover in adjusted position.

1,386,520. APPLIANCE FOR PREPARING ICED BEVERAGES OR FOR COOLING LIQUIDS. JOHN BATTEN MITCHELL, London, England. Filed Dec. 20, 1918. Serial No. 267,690. 1 Claim. (Cl. 220—10.)

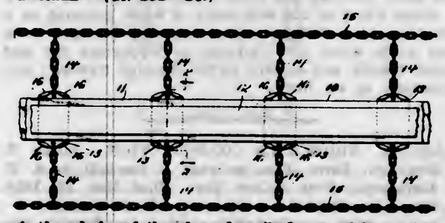


In apparatus for preparing iced beverages, the combination of a cylindrical vessel consisting of a cylinder adapted to contain the liquid to be cooled and an insulating jacket over which the said cylinder projects, with an approximately frusto-conical hood or decanter mounted on the said vessel, the said hood being composed of an inner cone inclosing at its base the edge of the said cylinder and closed at its top by a strainer, and an outer cone mounted on the inner cone and having at its base a flange fitting over the circumference of the jacket, substantially as described.

1,386,521. PROCESS FOR THE MANUFACTURE OF ARTIFICIAL THREADS, RIBBONS, FILMS, OR PLATES, FROM VISCOSE. MAX MÜLLER, Finkenwalde, near Stettin, Germany. Filed July 17, 1920. Serial No. 397,144. 10 Claims. (Cl. 18—54.)

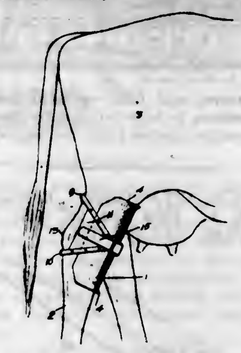
1. The herein-described process of manufacturing artificial threads and other structures from viscose which consists in squirting the viscose into a precipitating bath comprising acidified waste lye of sulfite cellulose.

1,386,522. TIRE-CHAIN. EDWARD MOORE, Pana, Ill., assignor of one-half to Ethelyn Van Syckle Galvin, Pana, Ill. Filed Aug. 2, 1919. Serial No. 314,973. 1 Claim. (Cl. 152—16.)



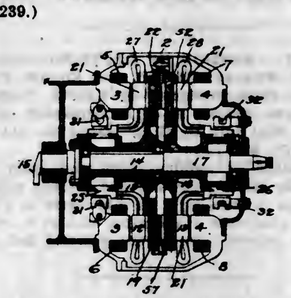
A tire chain of the class described comprising a tread member formed of a plurality of fabric strips, a tread strip formed of elastic material, anti-skid plates arranged in spaced relation and secured transversely between the layers of fabric, said plate projecting beyond the outer edges of the fabric strips and being secured to the short chain sections, longitudinal chains connecting the opposite ends of said chain sections and disposed circumferentially of the tire, outwardly projecting studs provided on the outer ends of said plates.

1,386,523. KICKING-BOOT. WILLIAM NELSON, Wolcott, N. Y. Filed Nov. 18, 1920. Serial No. 424,921. 1 Claim. (Cl. 119—127.)



A boot of the character described, comprising a transversely curved shield or splint adapted to be positioned across the front of the joint of the hind leg of a cow, means for securing said shield around the leg, said means comprising a pair of triangular metal plates, one of which is secured directly to the shield, a pair of straps secured to said plates and spaced apart between their ends, and a buckle supported on the shield and operatively and adjustably connected to one of said plates, whereby the adjusting means for the shield is against the shield and not against the leg of the animal on which the shield is used.

1,386,524. POWER-TRANSMISSION APPARATUS. ALFONS H. NEULAND, San Francisco, Calif. Filed Feb. 19, 1917. Serial No. 149,461. 43 Claims. (Cl. 172—239.)

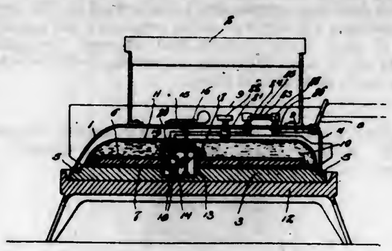


1. In an electric power transmission apparatus, a driving armature, a driven armature in inductive relation therewith, a field structure coöperating with said driving armature and a field structure coöperating with said driven armature.

1,386,525. ELECTRIC IRON. JOSÉ A. OCA-BALDA and GODFREY ALFRED DE LANGIS, New York, N. Y. Filed Aug. 6, 1920. Serial No. 401,770. 7 Claims. (Cl. 219—25.)

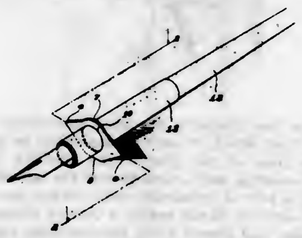
1. In combination with an electric iron, thermostatic means for breaking the current permanently when a

certain temperature has been reached and means for turning on the current by hand after an elapse of time in which the iron has become slowly cold and has reached a



certain temperature, said hand operated means setting the parts in condition to be acted upon by the thermostat when the temperature reaches again the highest limit.

1,386,526. PENCIL ATTACHMENT. Edward W. Owen, New York, N. Y. Filed Aug. 20, 1920. Serial No. 404,879. 1 Claim. (Cl. 120—104.)



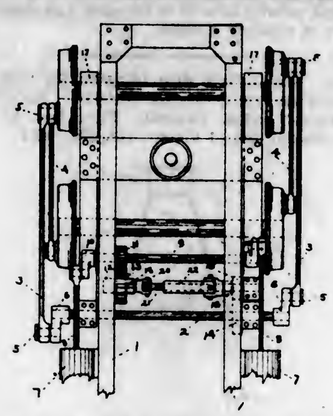
A device of the character described comprising a body formed from a flat plate having pointed ends, one flat side and a curved side, an opening formed in said plate substantially centrally thereof, said opening being adapted to receive a writing implement, and resilient legs formed from the said plate within the confines of said central opening, said resilient legs being adapted to be bent at right angles to the plate to embrace the staff of the writing implement to retain the plate thereon.

1,386,527. METHOD OF REFINING CACAO-OIL. Joseph W. Phelan, Medford, and Edward J. Wall, Cambridge, Mass., assignors to Kalmus, Comstock & Westcott, Inc., Boston, Mass., a Corporation of Massachusetts. Filed July 15, 1919. Serial No. 311,055. 4 Claims. (Cl. 87—12.)

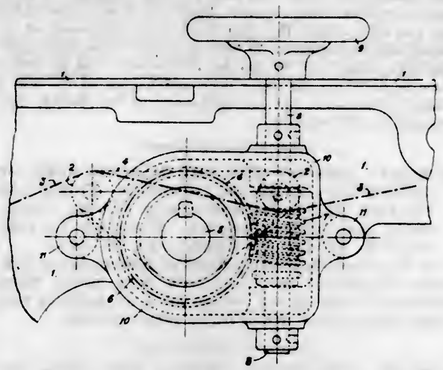
1. The method of refining cacao and other similar oils containing volatile, gustable and odorous substances, which consists in exposing it in thin layers to a current of gas under conditions of operation such as to retain its color and to remove some of the gustable and odorous substances.

1,386,528. DRIVING MECHANISM FOR LOCOMOTIVES. Samuel Pickering, Bellevue, Wash. Filed Jan. 17, 1921. Serial No. 437,746. 2 Claims. (Cl. 105—121.)

1. In a locomotive having driving wheels journaled in swinging trucks, driving means for said wheels comprising a shaft journaled in the main frame and extending transversely thereof, a spur gear wheel fixedly attached to said shaft and located interiorly of the frame, a bracket mounted on the main frame having a stub shaft journaled therein carrying a spur gear wheel adapted to mesh with said first gear wheel, a shaft journaled in the truck frame and extending transversely thereof, a spur gear wheel fixedly attached to said shaft and located interiorly of the truck frame, a bracket mounted on the truck frame and located oppositely and below the first bracket, having a stub shaft journaled therein carrying a spur gear wheel adapted to mesh with the gear wheel on said shaft journaled in the truck frame, a telescoping member extending between said opposite stub shafts, and universal joints interposed between and connecting each stub shaft with its respectively adjacent end of the telescoping member, means for transmitting power to said mechanism and for communicating the same to the driving wheels.



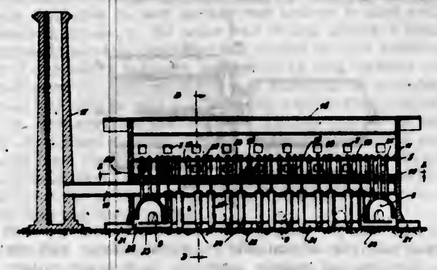
1,386,529. WEB-TIGHTENING MECHANISM. Thomas Vicars and Edward Lynton Vicars, Earlestown, England. Filed Jan. 5, 1921. Serial No. 435,266. 1 Claim. (Cl. 64—5.)



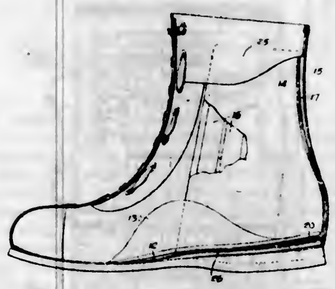
A biscuit or like embossing or cutting machine web tightening mechanism, comprising in combination with the shaft carrying the roller supporting arms or levers, a worm wheel on the said shaft, a worm mounted on a hand operated shaft; a casing inclosing the said worm and worm wheel and carrying or supporting the said worm spindle, and secured to the machine framing; substantially as set forth.

1,386,530. BRICK-KILN CONSTRUCTION. James T. Pokorny, Paris, Tex., assignor of one-half to A. T. Eddingston, Port Arthur, Tex. Filed Mar. 22, 1918. Serial No. 224,042. 4 Claims. (Cl. 25—189.)

1. In a brick manufacturing plant, a fire chamber, drying and firing chambers arranged in superposed relation above the fire chamber, the floor of the drying chamber having openings therein to admit the heated air circulating about the exterior of the fire chamber, and fuel conducting pipes connecting the firing room with the fire chamber.

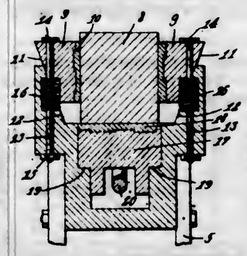


1,386,531. COMBINED ANKLE-STAY AND ARCH-SUPPORT. Abraham Posner, Brooklyn, N. Y. Filed Dec. 5, 1919. Serial No. 342,710. 3 Claims. (Cl. 36—71.)



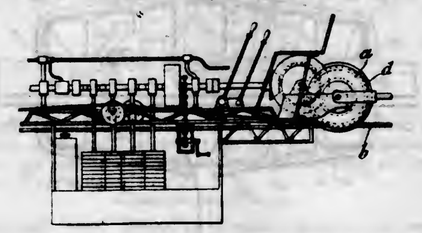
1. A shoe insert, comprising a combined arch support and ankle stay, the arch support having a base provided at one side with an upwardly extending flange, the said ankle stay arranged to extend above the ankle and having its lower portion fitting around the back of the base and along portions of the sides of the base with one side fitting snugly on the rear portion of the flange of the support, and means fastening the said arch support and ankle stay together.

1,386,532. CROSSHEAD. Ray D. Regan, Susquehanna, Pa. Filed Nov. 22, 1920. Serial No. 425,804. 3 Claims. (Cl. 74—84.)



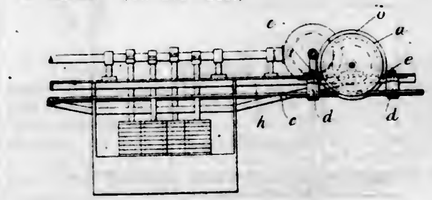
1. In combination with a cross head and the guide bars supporting the same, said cross head having a groove to accommodate each guide bar, the walls of said grove being inclined to receive adjustable gibs, said gibs having inclined walls contacting with the inclined walls of the groove, adjusting bolts extending through the gib and cross head for adjusting the gibs with respect to the cross head, and an adjustable gib engaging the underface of each guide bar.

1,386,533. TRACTION SYSTEM FOR CABLE-RAILWAYS. Stewart Alexander Rogers, Buenos Aires, Argentina. Filed Dec. 15, 1920. Serial No. 431,034. 8 Claims. (Cl. 104—235.)



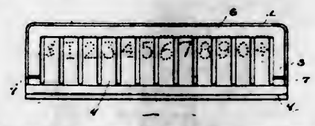
1. An auxiliary traction system for cable ways comprising two drums mounted on any driven parts of the power unit one on either side thereof said drums being of the same diameter as the driving wheels of said unit, two driving cables arranged one on either side of the cable way, clamping devices for anchoring said driving cables, means for keeping said driving cables in a state of tension, and means for removing the tension from said driving cables.

1,386,534. TRACTION SYSTEM FOR CABLE-RAILWAYS. Stewart Alexander Rogers, Buenos Aires, Argentina. Filed Mar. 24, 1921. Serial No. 455,239. 3 Claims. (Cl. 104—235.)



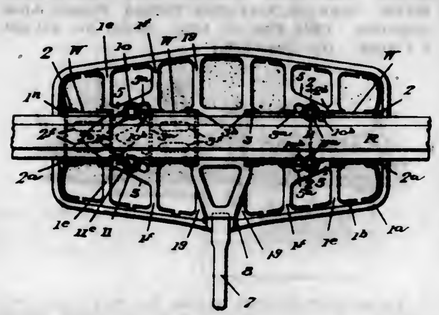
1. In auxiliary traction systems for cable railways in which the traction cables are warped in single coils on the winding drums the combination with said cables and said winding drums of guide rollers located fore and aft of said drums and at such a transverse distance apart as will insure the cable passing on to said drum at a point out of line with its point of leaving said drum.

1,386,535. CHECK-PROTECTOR. Fred E. Rothe, Chicago, Ill. Filed Dec. 22, 1919. Serial No. 346,494. 1 Claim. (Cl. 101—20.)



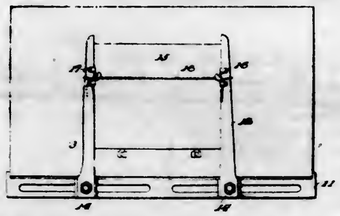
A check protector comprising a base member having a plurality of projections struck therefrom and forming independent characters, a one piece top member, said base member having one edge folded over upon itself and lying in facial abutment with the adjacent edge portion of said top member, the engaging portions of said base member and folded over portion being crimped to securely connect the base and top member, a plurality of independent resilient strips cut from said top member and each having a series of holes therein for the reception of said projections, and a guard limiting the movement of said strips.

1,386,536. RAILROAD-RAIL FASTENING. JOSEPH A. SILVER, New York, N. Y. Original application filed Aug. 5, 1919, Serial No. 315,471. Divided and this application filed Nov. 18, 1919, Serial No. 338,880. Renewed Feb. 23, 1921. Serial No. 447,225. 22 Claims. (Cl. 238—347.)



2. The combination with a rail support; an anti-creeping yoke engaging the rail flanges; bolts engaging the rail and passing through the yoke and said support, and nuts engaging the bolts.

1,386,537. CORD-RETAINING MEANS. WALTER H. SMITH, Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company, a Corporation of Pennsylvania. Filed Apr. 8, 1919. Serial No. 288,626. 12 Claims. (Cl. 101—408.)



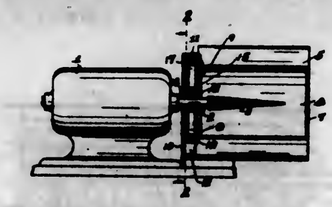
1. The combination with a pair of platen grippers, of cord retaining and locking clips, each clip open on one side to removably engage said gripper, and each clip having a cord engaging lip, and a cord extending around the lips and the gripper arms and locked under said clips.

1,386,538. CONCRETE SASH-WEIGHT. EDWARD A. STEPHENS, Los Angeles, Calif. Filed Mar. 16, 1920. Serial No. 366,348. 6 Claims. (Cl. 16—20.)



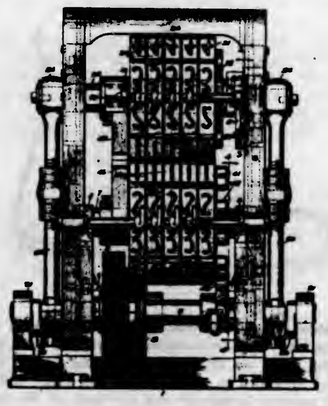
3. A sash-weight comprising, in combination, a cement block with a pulley wheel pocket in one end; a detachable bearing member adapted to be arranged across the pocket; a pulley wheel disposed in the pocket and having running engagement with the bearing member; and a fastening device for holding the bearing member in place; the block consisting of interlocking sections all secured together by the same fastening means.

1,386,539. DUST-COLLECTOR FOR LATHES, &c. CARL G. SMOCK, Santa Ana, Calif. Filed May 27, 1920. Serial No. 384,699. 1 Claim. (Cl. 51—270.)



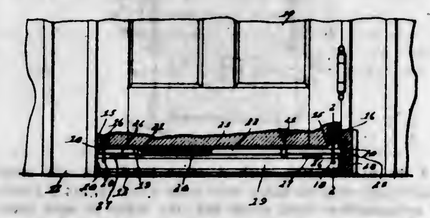
A dust collector for a rotatable member including a shell curved partially around said rotatable member with the axially extending edges of said shell in circumferentially spaced relation and reversely curved upon themselves to form pockets, a discharge conduit leading from said shell and suction means coöperating therewith.

1,386,540. METAL-STAMPING MACHINE. WILLIAM T. SULLIVAN, Cincinnati, Ohio. Filed Apr. 22, 1920. Serial No. 375,731. 8 Claims. (Cl. 101—18.)



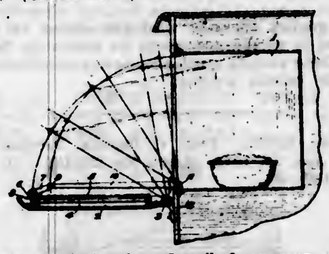
1. In a machine of the class described, a frame, a pair of die wheels relatively having a series of coöperating companion dies rotative for bringing the companion dies thereof into a coöperative position for stamping a piece of material inserted therebetween, and means for reciprocating one of said die wheels toward and from the other comprising a shaft for supporting and journaling the die wheel, bearings for said shaft slidably mounted in said frame, a rotative crank shaft, and connecting rods connecting with said crank shaft and respectively with the opposite ends of said die wheel supporting shaft.

1,386,541. DOOR ATTACHMENT. FRANK O. SWENSON, Austin, Tex. Filed Feb. 12, 1919. Serial No. 276,612. 1 Claim. (Cl. 20—68.)



In combination with a hinged door provided with a pocket disposed longitudinally of its base and communicating with sockets formed therein adjacent to its ends, a coil spring secured in each of said sockets, a depressible weather strip disposed in said pocket, U-shaped yoke members connected to said springs and secured to said strip, brackets secured to the inner wall of said pocket, a longitudinally movable operating rod carried by said brackets, provided with a flat head, and guided by said brackets and projecting through one end of said pocket, a lug extending from one side of said rod, a spring surrounding said rod and exerting a pressure between said lug and one of said brackets, cam elements formed on the upper edge of said strip, cam elements formed on the lower face of said rod and adapted to engage the first mentioned cam elements to force the weather strip outward against the tension of the last mentioned spring.

1,386,542. OVEN-DOOR. MICHAEL THIERY, Cincinnati, Ohio. Filed Sept. 3, 1920. Serial No. 408,062. 1 Claim. (Cl. 126—200.)



In a device of the class described, an oven casing, a glazed oven door providing a closure for the casing hingedly connected to the casing, a cover plate pivotally secured upon the inside face of the door for covering the glazed portion of the door when the door is open, and a link having one end pivotally connected to the inside of the oven casing opposite the hinged end of the cover plate, and its opposite end pivotally connected to said cover plate for swinging said plate with the swinging movement of the door to a position parallel with the plane of the door covering the glazed portion thereof when the door is open and to a position at right angles to the door when the door is closed.

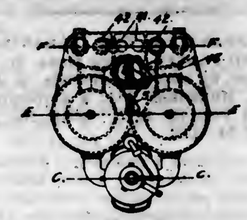
1,386,543. LOCKING DEVICE FOR MOTOR-VEHICLES. DAVID M. TILLER, Broken Arrow, Okla., assignor of one-eighth to J. Robert Hall, one-eighth to C. Burckhartt Talbot, and one-eighth to Sylvester P. Hasen, Broken Arrow, Okla. Filed Apr. 1, 1920. Serial No. 370,451. 2 Claims. (Cl. 70—126.)



1. Pedal locking means for motor vehicles comprising two approximately straight members of substantially the same length hinged together at one end, having pockets to receive respectively the clutch and brake pedals and prevent independent movement of either, the lock as a whole adapted to pass behind the reverse pedal and hold it in forward position, one of said members provided on its inner face adjacent its free end with a lock housed therein, and the other member provided on its inner face near its free end with a keeper to be engaged by the bolt of the lock for locking the two members together.

1,386,544. INTERNAL-COMBUSTION ENGINE. AUGUST L. WOLFF, Chicago, Ill. Filed Apr. 17, 1916, Serial No. 91,752. Renewed Oct. 22, 1920. Serial No. 418,766. 19 Claims. (Cl. 123—122.)

1. In an internal combustion engine including in combination cylinders, a plurality of fuel supply conduits communicatable with the cylinders adapted to supply various qualities of fuel, a thermostat actuated by the heat of a cylinder, a multiple fuel supply valve operated by the thermostat adapted to communicate the conduits with the cylinders to vary the quality of the fuel in communication with the cylinders in proportion to the variation of the heat of the cylinder.

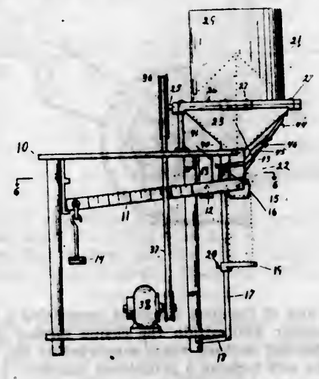


1,386,545. TOY. HENRY H. WORGAN, Carnegie, Pa., assignor of one-half to Amos N. Worgan, Carnegie, Pa. Filed Sept. 1, 1920. Serial No. 407,395. 3 Claims. (Cl. 46—46.)



1. A sounding toy comprising a handle provided with a depending supporting yoke, a trigger member pivoted on said yoke and having a head, a guide bar projecting from the handle and having a bell at its outer end and a stop at its inner end, said head straddling said bar forwardly of the stop, and a projectile mounted upon and adapted to be propelled on the bar by said head when the trigger member is operated to strike and sound the bell.

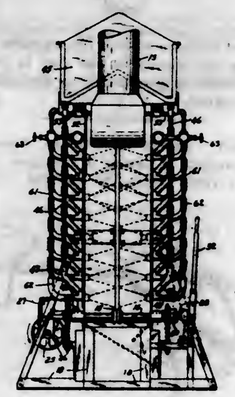
1,386,546. AUTOMATIC SCALE. RICHARD J. ZANONE, New Albany, Ind., assignor to Weighing Machine Manufacturing Company, Louisville, Ky., a Corporation of Kentucky. Filed May 13, 1919. Serial No. 296,736. 3 Claims. (Cl. 249—58.)



1. In a weighing mechanism, a hopper, a shaft journaled therein, a central disk mounted on said shaft, smaller

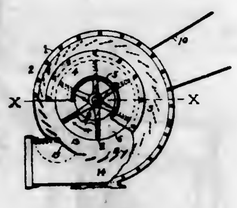
disks mounted on the shaft in proximity to the journals and a plurality of arms extending from the central disk to each of the end disks.

1,386,547. APPARATUS FOR CLEANING METAL SHEETS AND PLATES. ADAM ZISKA, Jr., Milwaukee, Wis., assignor, by mesne assignments, to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Feb. 15, 1917. Serial No. 148,898. 7 Claims. (Cl. 51—14.)



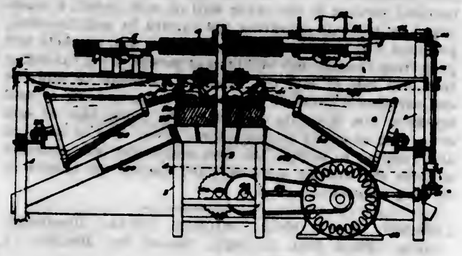
4. Apparatus for cleaning metal sheets, comprising means for supporting and advancing the sheets in an upright position, a plurality of sand blast nozzles arranged in fixed positions on opposite sides of the path of movement of the sheets and diagonally with relation thereto, the said fixed nozzles having their axes inclined with reference to the sides of the sheets, so as to direct the sand blasts obliquely against said sheets to simultaneously clean both sides thereof.

1,386,548. HIGH-PRESSURE SUCTION FAN AND BLOWER. ENOCH J. BLACKMON, Sherman, Tex. Filed Dec. 9, 1920. Serial No. 429,576. 2 Claims. (Cl. 230—11.)



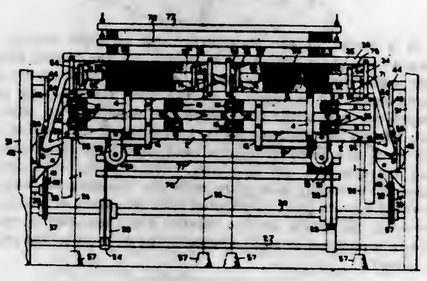
1. A device of the class described comprising a fan casing, a circular wall within the casing formed of transversely disposed inclined vanes supported by the sides of said casing and forming a cylindrical chamber, a fan positioned in said chamber, a deflector valve disposed in the chamber adjacent to the cylindrical wall.

1,386,549. FRUIT-GRADER. ORIN N. BOYER, Long Beach, Calif. Filed July 29, 1920. Serial No. 399,959. 10 Claims. (Cl. 130—32.)



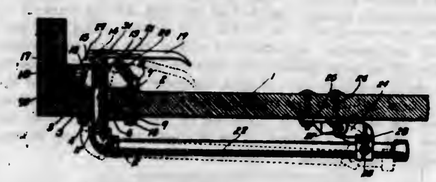
1. A grading apparatus including means for grading according to weight, and means for separating from said grades those articles which are above predetermined sizes for their various weights.

1,386,550. LOOM. JOHN C. BROOKS, Paterson, N. J. Filed Apr. 23, 1919. Serial No. 292,121. 11 Claims. (Cl. 139—69.)



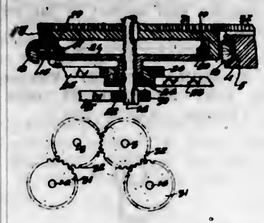
1. In a loom of the type using an air blast to deliver weft threads into the warp sheds, the combination with shed-forming mechanism, of means to measure off a length of filling for each pick and then to release said length so that the end thereof is free from restraint, and pneumatic means to deliver the measured length to the shed.

1,386,551. LATCH. CLARENCE R. BUMBARGER, Kansas City, Mo., assignor to George W. Johnson Manufacturing Company, Kansas City, Mo., a Corporation of Missouri. Filed Nov. 22, 1920. Serial No. 425,687. 10 Claims. (Cl. 292—195.)



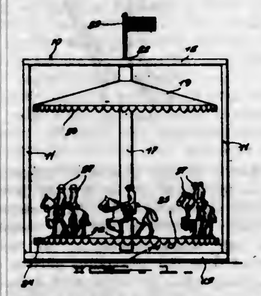
1. A latch comprising a pivoted elbow lever, one arm of which is an operating arm, and a latch bolt supported by and at right angles to the other arm and parallel with the operating arm.

1,386,552. CITRUS-FRUIT-JUICE EXTRACTOR. GEORGE E. CARNEY, Long Beach, Calif. Filed Aug. 25, 1920. Serial No. 405,848. 7 Claims. (Cl. 100—47.)



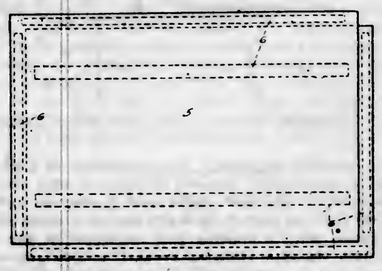
1. In a fruit juice extractor, a rotary member provided with pockets adapted to receive fruit, and a series of revoluble, rotatably mounted members adapted to enter said pockets to squeeze the juice from the fruit positioned therein.

1,386,553. MERRY-GO-ROUND. EDWARD J. COOK, Brainerd, Minn. Filed July 13, 1920. Serial No. 395,948. 1 Claim. (Cl. 46—27.)



A toy merry go round comprising a rectangular supporting frame including upper and lower cross bars and vertical side bars, supporting feet pivotally connected with the bottom cross bar and disposable selectively to lie therealong or in a position extending at right angles thereto, a standard removably journaled within said frame, a platform detachably engaged upon said standard and carrying figures, and a roof member detachably engaged upon the upper portion of the standard, all of said elements being removable and detachable whereby the entire device may be knocked down to occupy but little space.

1,386,554. WALL-BOARD. JOHN EASTON DALGLISH, Somerville, Mass. Filed Sept. 15, 1920. Serial No. 410,356. 1 Claim. (Cl. 72—124.)

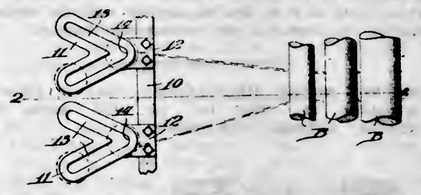


A building unit composed of a slab of plastic material having rabbeted edges, wooden strips embedded in the body of the slab and also in the rabbeted edge portions thereof, said edge strips running in the direction of the length of the edges of the slab, and a reticulated binder sheet around the strips, said sheet being also embedded in the slab.

1,386,555. METHOD OF MAKING A CATALYST. ARTHUR L. DAVIS, Liberty, Mo., and KENNETH D. JACOB, Helena, Ark., assignors to The United States of America. Filed Jan. 3, 1920. Serial No. 349,280½. 5 Claims. (Cl. 23—28.)

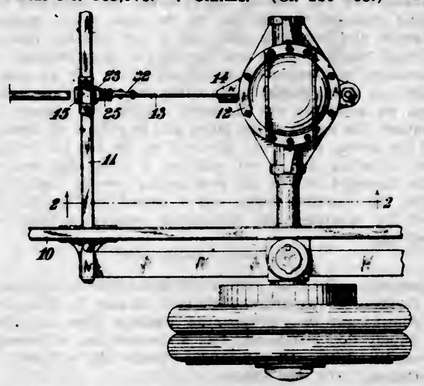
4. The method of preparing a catalyst for chemical synthesis, including mixing solutions of ferric nitrate and ammonium molybdate, heating to the boiling point, filtering, washing and drying the filtrate, igniting and reducing the resultant product with a fluid free from catalytic poisons.

1,386,556. CREEL-FRAME. JOSEPH M. DE VITO, Torrance, Calif., assignor of two-fifths to William L. Groves, Los Angeles, Calif. Filed Nov. 11, 1920. Serial No. 423,453. 10 Claims. (Cl. 242—131.)



9. In a creel frame, a support, a pair of bobbin holders arranged for movement upon said support and adapted to be shifted into and out of a position of service, and said support being provided with a bearing which receives a part of each bobbin holder while the same is in a position of service.

1,386,557. AUTOMOBILE-VEHICLE. CHARLES KEARNS EDWARDS, Chingford, London, and ALFRED SIDNEY COLLING, Finchley, London, England. Filed June 2, 1920. Serial No. 385,976. 7 Claims. (Cl. 180—85.)

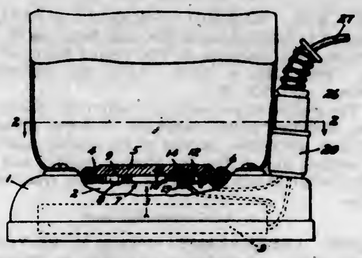


1. For an automobile vehicle, a torque member for the rear axle which is a spring blade and which, for the purpose described, is deep and thin and arranged as to its cross section with its greater dimension vertical.

1,386,558. THERMOSTATIC ELECTRIC SWITCH FOR FLATIRONS AND THE LIKE. CLARENCE S. FAY, Los Angeles, Calif. Filed Oct. 4, 1919. Serial No. 328,580. 4 Claims. (Cl. 200—138.)

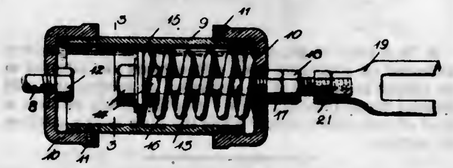
1. A thermostatic switch for flat irons and the like, comprising a plate, a post extending from the plate, a

thermostatic element connected to the post, a pivotally mounted switch blade, one end of said switch blade being flexibly connected to the thermostatic element, a contact point in position to be engaged by the switch blade when the thermostatic element is cold, a cam carried by the



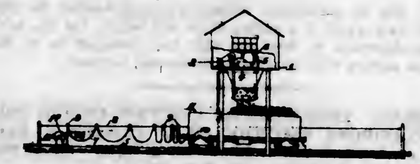
switch blade and having a point and a leaf spring fixed to the plate, and having a yielding hump in position to be engaged by the point of the cam so as to cause the switch blade to snap into engagement with the contact point by the tension of the thermostatic element.

1,386,559. **BRAKE MECHANISM.** JOHN P. FEGELY, Allentown, Pa. Filed Dec. 10, 1920. Serial No. 429,752. 2 Claims. (Cl. 188—217.)



2. The combination with a brake mechanism including a brake band, an operating lever and a pivoted operating rod, of a cylinder arranged on the operating rod, caps arranged on the ends of the cylinder, the operating rod being extended through one of the caps, a nut engaged thereon and engaging said cap, a rod slidably passing through the other cap and having one end threaded, an abutment member on the inner end of the rod, an expansible coil spring engaging the latter and the last mentioned cap, an adjusting nut threaded on the rod whereby to regulate the length of the latter and to govern the tension of the spring, a lock nut threaded on the rod for holding the adjusting nut in set position, a bifurcated member also threaded on the rod and having pivotal connection with the operating lever, and a second lock nut on the rod for retaining the bifurcated member in adjusted position.

1,386,560. **MEANS FOR CONTROLLING RAILROAD-CARS AT LOADING-POINTS.** FRANK L. FLEMING, Pittsburgh, Pa., assignor to Phillips Mine and Mill Supply Co., Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 18, 1920. Serial No. 417,695. 3 Claims. (Cl. 303—18.)



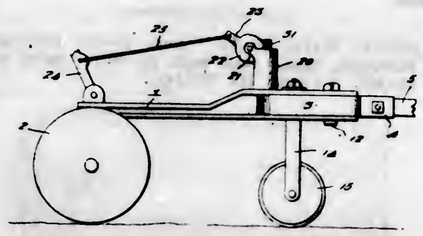
1. In means for controlling cars, the combination of a stationary source of supply of compressed air, a pipe leading therefrom to a fixed point, an extensible air conduit in communication through said pipe with said source of supply, a valve arranged on said pipe and adapted to control the passage of air through said conduit, means for coupling said conduit to the air brake appliances of a car.

1,386,561. **HOISTING DEVICE.** EDWARD B. FOSTER, Quartzsite, Ariz. Filed July 17, 1920. Serial No. 396,968. 2 Claims. (Cl. 24—241.)



1. In a device of the character described, a shank member, provided with screw threads intermediate its length, a block rigid with said shank member and protruding laterally therefrom, a hook member hingedly connected to said shank member at the opposite side of the axis thereof from the protruding portion of said block, said hook member being provided with a recess to engage said block, a sheath sleeved upon the shank member and adapted to secure said hook member in engagement with said block, and a nut engageable with the screw threads of the shank for releasably retaining the sheath in its engaged position with respect to the hook member.

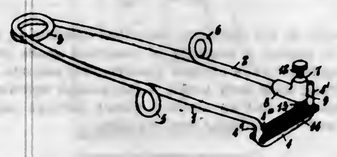
1,386,562. **QUICK-STEERING MECHANISM FOR AGRICULTURAL AND OTHER WHEELED MACHINES.** JOHN J. FRAWLEY, Stillwater, Minn. Filed May 17, 1920. Serial No. 381,973. 1 Claim. (Cl. 280—85.)



In a steering mechanism, the combination of a wheeled frame, a horizontally disposed swinging member pivotally connnected to the said frame and having an internal arcuate rack on one of its walls and an arcuate slot in its bottom wall, a steering pole connected to and movable with the said swinging member, a spur gear intermeshed with the arcuate rack of the said swinging member and disposed in the member, and a steering wheel connected and movable with the said spur gear, said connec-

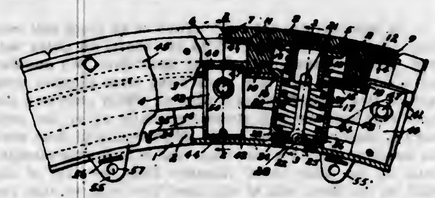
tion extending loosely through said arcuate slot, the swinging member further having an arcuate groove in the upper side of the rack bearing wall and a central vertical bore in said wall and in communication with said groove, a vertical spring-pressed pin carried by the frame and arranged for coöperation with said groove and vertical bore, and means on the frame and connected with said pin to retract the pin and to hold the same in retracted position.

1,386,563. **GASLIGHTER.** GAIUS C. FULLER, Cincinnati, Ohio, assignor to The G. C. Fuller Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Dec. 19, 1919. Serial No. 346,117. 4 Claims. (Cl. 67—6.1.)



1. In a gas-lighter, a holder for spark-producing material having an opening through it from end to end, a screw threaded in one end part of said opening for bearing directly against spark-producing material in the other end part of said holder, a support for said holder, attached to said holder substantially at right angles to said opening, an abradant entirely outside of said holder, and a support for said abradant, yieldably connected to said holder support, whereby the spark-producing material is continuously held against said abradant substantially at right angles to said abradant, to be dragged along said abradant, whereby said screw is adapted to adjust said spark-producing material against said abradant and said abradant tends to hold said material in said holder against said screw.

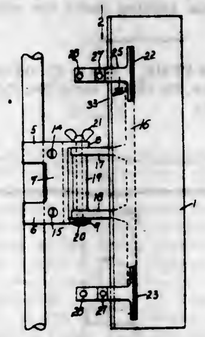
1,386,564. **SPRING-TIRE.** FRANK C. GEISDORF, Los Angeles, Calif. Filed May 20, 1920. Serial No. 382,743. 6 Claims. (Cl. 152—38.)



6. A tire of the character described comprising a base; an intermediate member spaced radially beyond said base; a tread portion supported upon said intermediate member; supporting cups extending inwardly from said intermediate member toward said base; supporting members within said cups received against the inner surface of said tread portion; springs within said supporting cups between said supporting members and the bases of said supporting cups; and connecting rods supported upon the base of the tire and extending within said supporting members; and a visual indicator comprising a pin extending from each of said connecting rods beyond the base of the tire.

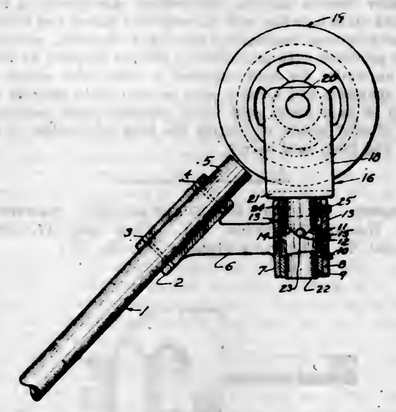
1,386,565. **AUXILIARY WINDSHIELD.** GEORGE GLAUDEL, Los Angeles, Calif., assignor, by direct and mesne assignments, of one-half to George L. Mitchell, Santa Monica, Calif. Filed June 4, 1919. Serial No. 301,839. 3 Claims. (Cl. 296—84.)

1. A device for supporting a supplemental wind shield and which is attachable to the usual wind shield side support, comprising a pair of spaced vises having separable jaws to extend transversely across the inserted plate and between which it is vertically adjustable, a bar on the ends of which the vises are arranged, a clamp attachable



to the support, said bar having an intermediate means extending laterally, and a pivot member connecting said means and said clamp, the planes of the vises and the connecting means being acute.

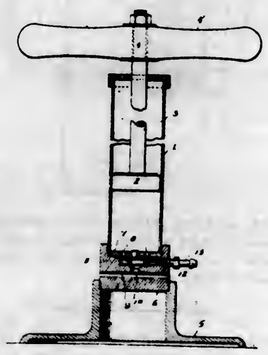
1,386,566. **GRAVITY TROLLEY-RUDDER.** FRED GRAY, Lankershim, Calif., assignor of one-half to George E. Wallace, Los Angeles, Calif. Filed Dec. 30, 1918, Serial No. 268,958. Renewed Apr. 23, 1921. Serial No. 463,900. 1 Claim. (Cl. 191—60.1.)



A gravity trolley rudder comprising the combination with a straight pole, of a socket fitting upon the pole; pins inserted through the socket and through the pole, the socket being a fixed distance below the end of the pole; an arm extending backwardly from the socket substantially in a horizontal plane; a vertical bearing at the rear end of the arm and having a straight bore; a supporting cam comprising a straight sleeve fitting loosely in the lower end of the bore and held in place by a set screw and having a V-shaped upper end so as to produce two low points in diametrical alinement and two high points in diametrical alinement at right angles to the low points and inclined faces connecting the low points to the high points; a trolley wheel fork comprising a crosshead and arms extending upwardly from the crosshead; a swiveled post extending downwardly from the crosshead and fitting loosely in the cam sleeve; a pin mounted loosely through the swiveled post and resting upon the cam face; a retaining sleeve mounted on the post before the pin is inserted; a set screw for holding the retaining

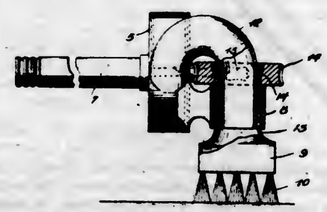
sleeve in place; a spindle inserted through the arms; and a trolley wheel upon the spindle, the periphery of the trolley wheel being close to the end of the pole so that the end of the pole serves as a guide to prevent the trolley wire from hooking under the wheel.

1,386,567. AIR-PUMP. JOHN R. HAFSTROM, Morocco, Ind. Filed Jan. 30, 1920. Serial No. 355,280. 2 Claims. (Cl. 230—27.)



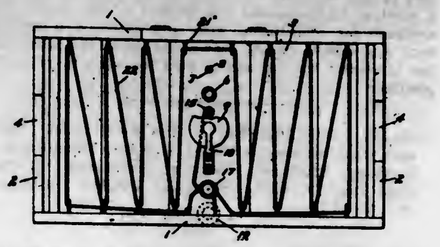
1. In a pump, a barrel, a reciprocatory piston therein, a coupling carried by said barrel and provided with a chamber therein opening out toward said barrel, a perforated plate between said chamber and barrel and having its perforations registering with said chamber, said coupling provided with passageways therein forming an inlet and an outlet for said chamber, a disk valve seated in said chamber, and a valve stem on said valve slidably engaged in said plate, said valve operable upon reciprocation of said piston to control the inlet and outlet of air into and from said barrel.

1,386,568. ROTARY FOUNTAIN-BRUSH. LAWRENCE H. HARGIS, Texarkana, Tex. Filed Aug. 17, 1920. Serial No. 404,099. 2 Claims. (Cl. 15—37.)



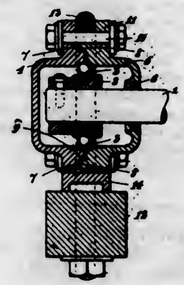
2. In a rotary fountain brush a shell having a liquid inlet, a liquid operated rotor journaled in the shell and including a forwardly extending worm shaft, a forwardly arranged bearing carried by the shell, a rotary brush head having a perforated bottom, an upstanding hollow shaft carried by the brush, and rotatable in the bearing and having its upper end projecting above the same, a worm gear arranged above the bearing and driven by the worm shaft and provided with a central opening in which the upper end of the hollow shaft is fixed, and a goose neck having one end communicating with the shell at one side and its opposite end passing through the opening in the worm gear.

1,386,569. INCUBATOR AND BROODER. OSCAR W. HEED, Tulare, Calif. Filed May 27, 1920. Serial No. 384,777. 1 Claim. (Cl. 219—19.)



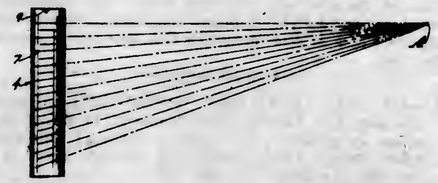
A device of the character described comprising a chamber to be heated, a plurality of insulated hooks extending along opposite walls of said chamber, an electric heating wire strung upon said hooks, a thermostat mounted upon said chamber, and an electric circuit through said thermostat and through said heating wire.

1,386,570. BALL-BEARING. KNUT WALDEMAR HEYMAN, Stockholm, Sweden. Filed Mar. 26, 1918. Serial No. 224,819. 7 Claims. (Cl. 64—36.)



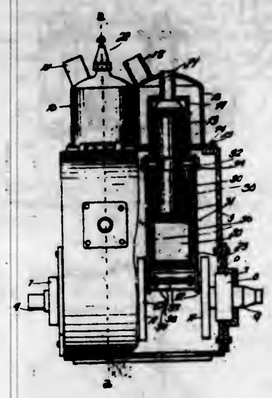
5. In ball bearings the combination of an inner ball race ring, adapted to be attached to the shaft, an outer ball race, divided transversely to the shaft into two annular parts, said outer ball race parts being made integral with each of two parts forming a housing which embraces the inner race ring as well circumferentially as at the ends and the inner edges of which lie substantially in flush with the inside of the inner race ring, that is to say lie substantially at the same radial distance from the axis of the shaft as the inner side of the inner race ring, so that the said outer race ring forms a dust proof housing for the whole bearing, a number of catches arranged at intervals on the periphery of the housing, said catches consisting of U-shaped clamps, which hold the outer race parts together.

1,386,571. DIRECT-READING BURETTE. ALBERT M. JACKSON, Los Angeles, Calif. Filed July 29, 1920. Serial No. 399,960. 4 Claims. (Cl. 73—166.)



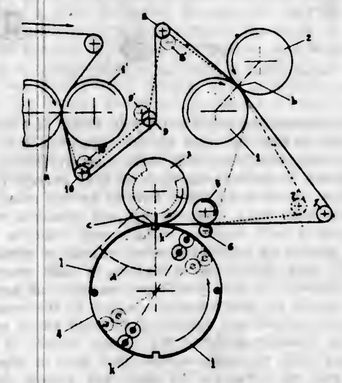
1. The combination with a burette, of a transparent graduated sleeve slidable longitudinally along said burette.

1,386,572. EXPLOSION-MOTOR. GEORGES JEANTET, Bilbao, Spain. Filed July 11, 1917. Serial No. 179,978. 3 Claims. (Cl. 123—74.)



1. An internal combustion engine having a crank case, a piston-cylinder secured thereto and projecting within and beyond such crank case, a conduit formed lengthwise the cylinder within the crank case, the lower end of the cylinder within the crank case having a fuel inlet port and also a fuel outlet port leading to said conduit, the upper portion of the cylinder beyond the crank case having a fuel inlet port leading from said conduit and also an exhaust outlet port, a piston movable in the cylinder and forming the sole controlling means for all of said ports, and crank means connected to said piston and operating beyond the cylinder and wholly within the crank case.

1,386,573. ROTARY PRINTING-PRESS. PAUL MARTIN, Roubaix, France. Filed May 31, 1913. Serial No. 771,036. 3 Claims. (Cl. 101—117.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



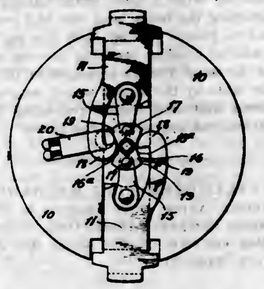
1. In a rotary or other printing press for printing webs comprising printing and impression cylinders, the combination of cutting and delivery drums, means of regulation capable of varying the duration of contact of said cutting and delivery drums, two supplementary cylinders rotating intermittently for feeding the paper during the period of time corresponding to the time of impression of the impression cylinders and the pressure periods of said cutting and delivery drums, a brake and a clutch for regulating the starting and stopping of said supplementary cylinders in a precise manner.

1,386,574. SAFETY-CATCH FOR PINS AND BROOCHES. MOAD H. LE MARR, Los Angeles, Calif. Filed Aug. 25, 1920. Serial No. 405,952. 3 Claims. (Cl. 24—157.)



3. A safety catch including a blank folded upon itself to form a hook, said folded blank having a depression forming a projection extending between the folds of said hook, and a retaining member pivoted between the folds of said hook and adapted to be swung into position for closing the opening of said hook, said retaining member being engaged by said projection in open or closed position.

1,386,575. TIME-LOCK. ROLLIN C. LEWIS, Stamford, Conn., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Dec. 22, 1920. Serial No. 432,500. 4 Claims. (Cl. 70—26.)
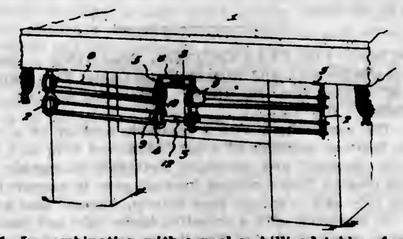


1. In a time lock, the combination of a bolt adapted to be projected by a spring and provided with a hook shaped end, a crank adapted to be actuated by time mechanism and means connecting the crank and bolt for retracting the latter the said hook on the bolt resting in the path of movement of the crank so as to be engaged by the latter in the event of a breakage of the mechanism connecting the crank and bolt.

1,386,576. NON-INFLAMMABLE CELLULOSE COMPOUND. WILLIAM GODSON LINDSAY, Newark, N. J., assignor to The Celluloid Company, a Corporation of New Jersey. Original application filed Sept. 10, 1912, Serial No. 719,543. Patent No. 1,199,799, dated Oct. 3, 1916. Divided and this application filed Sept. 1, 1916. Serial No. 118,003. 12 Claims. (Cl. 106—40.)

1. A composition of matter containing an acetyl cellulose and tricresylphosphate in admixture with a solvent common to both.

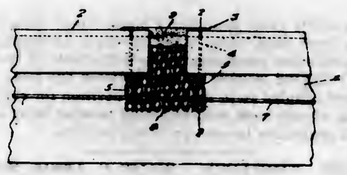
1,386,577. ATTACHMENT FOR POOL-TABLES. JAMES H. MCCOOL, Ellsworth, Kans. Filed June 5, 1920. Serial No. 386,795. 3 Claims. (Cl. 46—6.)



1. In combination with a pool or billiard table, of oppositely disposed downwardly inclined racks arranged there-

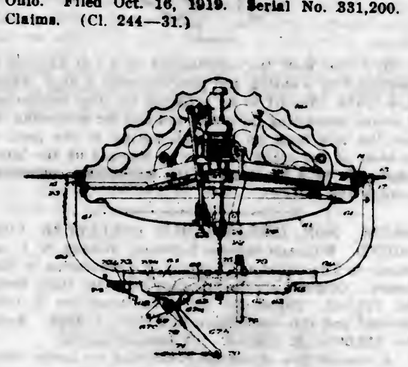
on, said racks having their confronting faces spaced from each other and the said ends open and a pivoted gate normally closing the open confronting ends of the racks.

1,386,578. ATTACHMENT FOR POOL-TABLES. James H. McCool, Ellsworth, Kans. Filed Nov. 9, 1920. Serial No. 422,866. 1 Claim. (Cl. 46—12.)



In combination with a pool table having an inclined track for directing the balls from the ball receiving pockets, of a woven pocket having both its top and bottom open, a flat arched member securing the top of the pocket to the top of the table, frames arranged in the pocket, connected to the table by the means which secures the arched member thereto, and said frames retaining the pocket in spread condition and supporting the track.

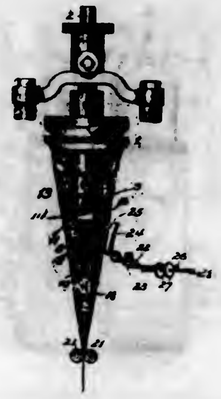
1,386,579. VALVE-OPERATING MECHANISM. Alger G. Maranville, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Oct. 16, 1919. Serial No. 331,200. 19 Claims. (Cl. 244—31.)



1. A control mechanism comprising, an element yieldably held in one position, a rocking lever, and manually controlled devices for successively operating the element in opposite directions by movement of the rocking lever in one direction.

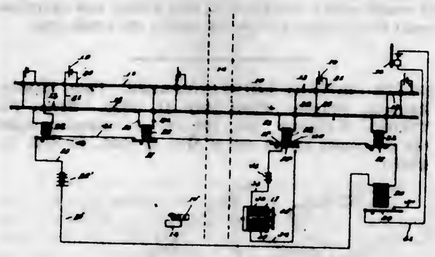
1,386,580. CIRCULAR-KNITTING MACHINE. John Loyn Marshall and Robert Evan Davis, Fort Payne, Ala. Filed Dec. 16, 1920. Serial No. 431,169. 7 Claims. (Cl. 66—7.)

1. The combination with a rotatable member of a circular knitting machine, of a part connected with said rotatable member and normally rotatable therewith, a spring-pressed finder carried by said part to engage the fabric tube and to enter a hole therein, whereby said part may be connected with a defective fabric tube and caused to move therewith in the direction of travel of the fabric tube to disconnect said part from operative relation with the rotatable member of the machine, and a lever for operating stop mechanism, said lever having an arm in the



path of movement of said part when the latter is moved by the fabric tube.

1,386,581. RAILROAD-GATE. Lewis Millen and William Judson Griffith, Glenmary, Tenn. Filed Jan. 30, 1920. Serial No. 355,023. 2 Claims. (Cl. 246—130.)

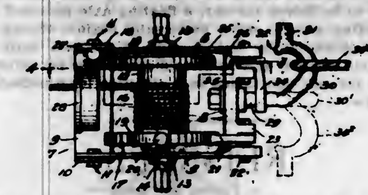


1. In combination with a railway track and crossing, said track having its rails on the opposite sides of the crossing insulated from each other and electrically energized, relay magnets connected to said energized rails, a common circuit including a battery having relay armatures for said relay magnets, contact elements for the armatures in said common circuit, said common circuit having therein an additional relay magnet, a signal in a normally open circuit, an armature in said circuit disposed opposite the last mentioned magnet and a contact in said circuit for said armature, a gate at the crossing, a lock circuit including a battery, a solenoid and a movable armature therefor designed when said circuit is closed to engage with the gate to lock said gate in closed position, and an armature in said lock circuit disposed adjacent to one of the armatures for the energized track relay magnets, all as and for the purpose set forth.

1,386,582. PORTABLE HAND-WINDLASS. Theodore V. Nutter, Seattle, Wash. Filed July 6, 1920. Serial No. 394,026. 4 Claims. (Cl. 254—161.)

1. In a hand-windlass, a frame having bearing boxes in the side members thereof, a shaft journaled in said boxes, a drum on said shaft, means for rotating said drum, a hook shank swiveled in an end member of said

frame to rotate about an axis longitudinal of the latter, a hook formed integral with said shank and directed



laterally therefrom, and means engageable with said shank for releasably securing the hook in selected revoluble positions.

1,386,583. HOISTING-HOOK. John Paterson, Jr., Edinburg, N. D. Filed Apr. 3, 1918. Serial No. 226,517. 2 Claims. (Cl. 294—84.)



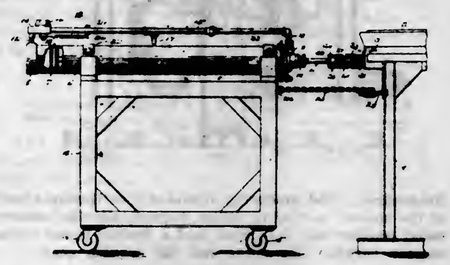
1. A self-releasing hoisting hook comprising in combination, a hook member formed in the shape of an elongated link open at one side, provided with a weight disposed at the same side of the major axis of the body as its open portion, and having an arcuate slot formed transversely through its end portion opposite to the hook proper, and a supporting member for said hook member, including a pivot extending through the said slot of the hook member to pendently support the same by engagement at the one end of the slot nearest said weight when a load of considerable magnitude is pendently supported from the hook portion proper, and to engage the other end of the arcuate slot when the load is relieved sufficient to permit swinging of the hook member responsive to the force of gravity acting upon said weighted portion of the hook member, the hook member initially swinging and then riding on said pivot in the descent of the weighted portion so as to quickly release the load.

1,386,584. HARROW. Robert Witherr Payne, Drakes Branch, Va. Filed Nov. 4, 1919. Serial No. 335,657. 1 Claim. (Cl. 55—8.)



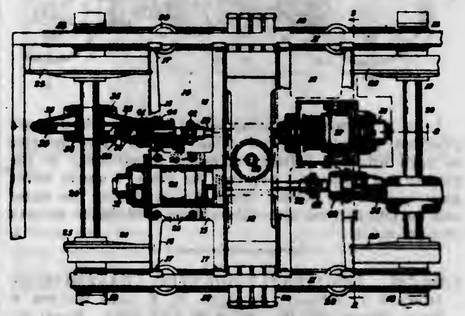
A harrow including longitudinal bars, each of said bars comprising an angle iron, said angle irons having openings formed in spaced relation with each other, said openings being formed in the vertical walls of the angle irons to provide bearings, said angle irons having slots formed in the horizontal walls thereof, the slots being disposed adjacent the bearing openings, teeth supporting bars arranged in pairs having curved surfaces and relatively straight surfaces, the curved surfaces adapted to contact with the walls of the bearings for permitting movement of the teeth supporting bars, teeth carried between the teeth supporting bars of each pair, means for securing the bars in engagement with the teeth, said teeth adapted to be positioned in the slots and adapted to move therein, said teeth adapted to restrict lateral movement of the teeth supporting bars, and the ends of said slots adapted to restrict movement of the teeth longitudinally of the slots.

1,386,585. ASSEMBLING DEVICE. Emory R. Berry, Davenport, Iowa. Filed Jan. 10, 1920. Serial No. 350,675. 2 Claims. (Cl. 29—84.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a device for inserting a floating piston in a cylinder, a portable table, a flexible connection for anchoring the table, an air motor mounted on the portable table and a head flexibly secured to the piston-rod of said motor for forcing said floating piston within the cylinder.

1,386,586. CAR-MOTOR MOUNTING. Howard J. Murray, Brooklyn, N. Y., and Walter S. Rugg, Pittsburgh, Pa. Filed May 27, 1918. Serial No. 236,853. 14 Claims. (Cl. 105—118.)

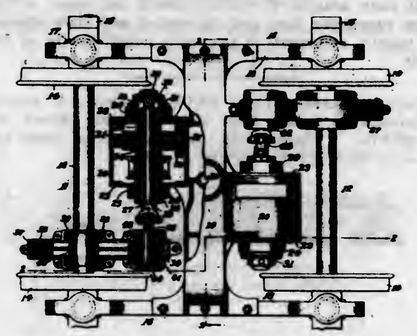


1. In a railroad vehicle, the combination with a wheel truck, having unsprung parts including wheels with a driven axle mounted in said truck and having some freedom of movement relative thereto, and spring supported parts including a frame structure having side sills with a plurality of side sill supporting springs supported from said unsprung parts, of a power unit for driving the wheels including a high speed electric motor hung from said resiliently supported frame structure and capable of vertical movement relative to the axle to bring its armature in line horizontally with said axle, and a flexible driving connection between said motor and axle, said connection including means for reducing the speed of rotation of the motor transmitted to the axle.

1,386,587. MOTOR-CASING-TRUCK CONSTRUCTION. Howard J. Murray, Brooklyn, N. Y., and Walter S. Rugg, Pittsburgh, Pa. Filed May 27, 1918. Serial No. 236,854. 18 Claims. (Cl. 105—49.)

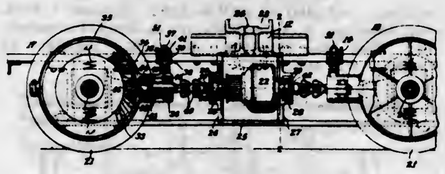
1. In an electrically driven vehicle, the combination with a pair of running gears, a bolster constituting a

structural part of the vehicle frame-work and positioned between said running gear, means for supporting the same resiliently from the running gears, an electric motor with



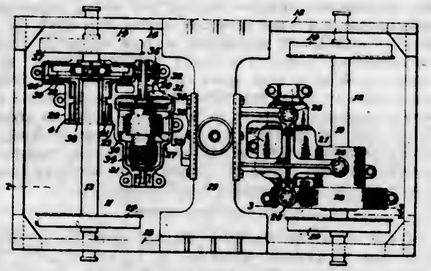
its magnetic field producing elements constituting a part of the bolster thereby to utilize magnetically the massive metal constituting the frame, and a flexible power transmission between the motor and the running gear.

1,386,588. SINGLE-MOTOR BOLSTER. HOWARD J. MURRAY, Brooklyn, N. Y., and WALTER S. RUGG, Pittsburgh, Pa. Filed May 27, 1918. Serial No. 236,855. 16 Claims. (Cl. 105—118.)



1. In a vehicle, the combination with a wheel truck provided with two driven axles, free to move relative to each other, a bolster extending transversely of the vehicle and positioned between the axles, a single motor positioned on the bolster, means for cushioning the motor and flexible driving connections from said motor to both of said axles.

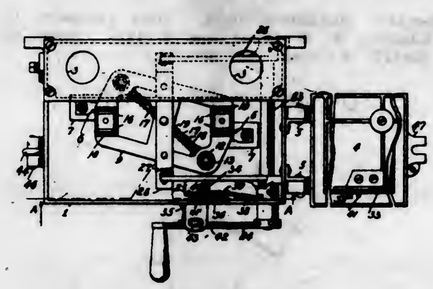
1,386,589. RESILIENTLY-MOUNTED TRANSMISSION. HOWARD J. MURRAY, Brooklyn, N. Y., and WALTER S. RUGG, Pittsburgh, Pa. Filed May 27, 1918. Serial No. 236,856. 12 Claims. (Cl. 105—131.)



1. In a device of the class described, the combination of a spring supported motor and transmission containing casing, a motor mounted in said casing, a reducing gear train mounted in said casing and operatively connected to the motor to be driven thereby, a floating axle provided with supporting wheels, and a universally flexible driving connection between the last element of the gear train and said axle whereby free relative movement is permitted between the axle and casing in a direction longitudinally of the axle.

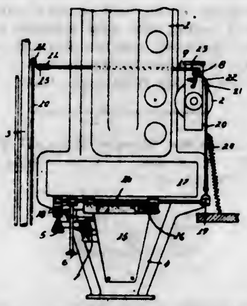
REISSUES.

15,169. ELECTRICAL SWITCH. BRYSON D. HORTON, Detroit, Mich. Filed Dec. 12, 1918. Serial No. 267,093. Original No. 1,184,454, dated May 23, 1916, Serial No. 809,880, filed Jan. 2, 1914. 28 Claims. (Cl. 200—50.)



1. In an iron-clad switch of the character described, a quick make and break mechanism, including a rock shaft, a pair of arms mounted thereon, a bridge piece provided with abutments, resiliently attached to the outer ends of the arms, guide rods provided with abutments, a pair of telescoping rods interposed between the abutments of the guide rods and bridge piece and helical springs mounted upon the telescoping rods.

15,170. AUTOMATIC ACCELERATOR. JOHN H. LEITCH, Detroit, Mich., assignor of one-half to Anthony Nelson, Detroit, Mich. Filed June 18, 1917. Serial No. 175,501. Original No. 1,222,874, dated Apr. 17, 1917, Serial No. 117,971, filed Sept. 1, 1916. 3 Claims. (Cl. 74—107.)



3. In a motor vehicle, the combination with the engine and change speed gearing including means for controlling the operation of said change speed gearing to effect different changes, of a plurality of pedals for actuating said controlling means, said pedals requiring simultaneous operation to effect one of said changes, and an accelerator operated by either of said pedals as the controlling means is actuated, thereby to pick up the load.

15,171. VEHICLE-WHEEL. GUSTAV SCHADEE, New York, N. Y., assignor, by mesne assignments, of two-thirds to Emma G. Gallagher and one-third to Alice Schadee, New York, N. Y. Filed Apr. 23, 1919. Serial No. 292,187. Original No. 1,272,122, dated July 9, 1918, Serial No. 192,884, filed Sept. 24, 1917. 4 Claims. (Cl. 152—33.)



1. A tire including an inner and outer rim, tubes interposed and inflatable therebetween, and seats laterally adjustable with respect to the outer rim for bodily supporting each tube at its outer circumference.

15,172. APPARATUS FOR TREATING AND CANNING MILK. BURT E. TAYLOR, Mount Vernon, N. Y., assignor to The Borden Company, New York, N. Y., a Corporation of New Jersey. Filed June 6, 1921. Serial No. 475,432. Original No. 1,340,921, dated May 25, 1920, Serial No. 261,545, filed Nov. 7, 1918. 14 Claims. (Cl. 99—2.)



11. In apparatus for filling cans with milk and thereafter capping and sealing them, the combination of a casing containing a normally closed chamber having a thereinto inlet for empty, and therefrom outlet for filled and capped cans, means to open and close said inlet and outlet; a can-filling device, a cap-placing and a cap-sealing device located in said chamber; means to feed the empty cans into the chamber, means to therethrough feed them successively to the filling and sealing devices and therefrom out of the chamber; means to bring the cans into, and during their filling and sealing detain them in, alinement with the filling and sealing devices, means to actuate the filling and sealing devices while the cans are therewith alined, means to pump air out of the chamber during closure of its said inlet and outlet; and means to, through said inlet and outlet, permit the cans to enter and withdraw from the chamber without admitting air.

14. In apparatus for filling cans with milk and thereafter capping and sealing them, the combination of a casing containing a normally closed chamber having a thereinto inlet for empty, and therefrom outlet for filled and capped cans; a can-filling device, a cap-placing and a cap-sealing device located in said chamber; means to feed the empty cans into the chamber; means to therethrough feed them successively to the filling and sealing devices and therefrom out of the chamber; means to bring the cans into, and during their filling and sealing detain them in, alinement with the filling and sealing devices; means to actuate the filling and sealing devices while the cans are therewith alined; means to pump air out of the chamber during closure of its said inlet and outlet; and in said outlet and inlet for cans an air lock comprising a plurality of rotatable, cylindrical valve members each having an opening for passage of the cans therethrough which accommodates two or more cans.

15,173. CURTAIN-LIGHT. RUSSELL E. TUPPER, Cochituate, Mass. Filed Feb. 5, 1920. Serial No. 356,442. Original No. 1,312,087, dated Aug. 5, 1919, Serial No. 263,205, filed Nov. 19, 1918. 5 Claims. (Cl. 296—145.)



1. A clamping device for sheet material, comprising a section of sheet metal folded over upon itself to compose two spaced members, one of said members having a projection on its inner surface, and one member having a spur projecting therefrom, whereby sheet material can be clamped between said members and other sheet material can be held by said spur.

DESIGNS.

58,527. EMBOSSED WALL-PAPER. ALBERT AINSWORTH, Swarthmore, Pa., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,220. Term of patent 7 years.



The ornamental design for embossed wall paper as shown.

58,528. EMBOSSED WALL-PAPER. ALBERT AINSWORTH, Swarthmore, Pa., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,221. Term of patent 7 years.



The ornamental design for embossed wall paper as shown.

58,529. EMBOSSED WALL-PAPER. ALBERT AINSWORTH, Swarthmore, Pa., assignor to Becker, Smith & Page, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,222. Term of patent 7 years.



The ornamental design for embossed wall paper as shown.

58,530. FACE-PLATE FOR COMBINATION INDICATING INSTRUMENTS FOR MOTOR-DRIVEN VEHICLES. BENJAMIN H. ANIBAL, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 7, 1921. Serial No. 459,477. Term of patent 14 years.



The ornamental design for a face plate for combination indicating instruments for motor driven vehicles illustrated in the accompanying drawing.

58,531. FACE-PLATE FOR SWITCH MECHANISM FOR MOTOR-DRIVEN VEHICLES. BENJAMIN H. ANIBAL, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 7, 1921. Serial No. 459,478. Term of patent 14 years.



The ornamental design for a face plate for switch mechanism for motor driven vehicles illustrated in the accompanying drawing.

58,532. INSTRUMENT-BOARD FOR MOTOR-VEHICLES. BENJAMIN H. ANIBAL, Highland Park, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Apr. 7, 1921. Serial No. 459,479. Term of patent 14 years.



The ornamental design for an instrument board for motor vehicles illustrated in the accompanying drawing.

58,533. SURGICAL MIRROR. ALEXANDER A. ANZELL, New York, N. Y. Filed Sept. 26, 1919. Serial No. 326,695. Term of patent 14 years.



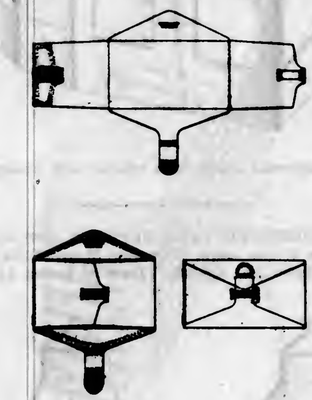
The ornamental design for a surgical mirror, as shown.

58,534. GLASS GOBLET OR OTHER SIMILAR ARTICLE OF MANUFACTURE. JOSEPH O. BALDA, Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va., a Corporation of West Virginia. Filed Feb. 18, 1921. Serial No. 446,183. Term of patent 14 years.



The ornamental design for a glass goblet or other similar article of manufacture, as shown.

58,535. ENVELOP. REUBEN BALOSK, Newark, N. J. Filed July 13, 1920. Serial No. 396,021. Term of patent 14 years.



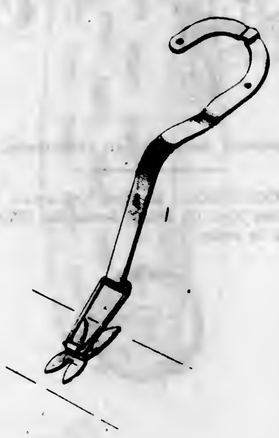
The ornamental design for an envelop as shown.

58,536. DIRECTION-INDICATOR FOR VEHICLES. GEORGE E. BATES, Syracuse, N. Y. Filed Nov. 16, 1920. Serial No. 424,562. Term of patent 7 years.



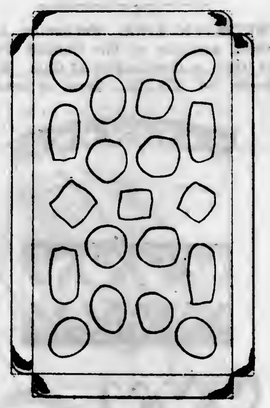
The ornamental design for a direction indicator for vehicles, substantially as shown.

58,537. CORRECTION-INDICATOR FOR A DICTATION-MACHINE. GEORGE W. BEARLS, New Rochelle, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Sept. 6, 1918. Serial No. 252,976. Term of patent 14 years.



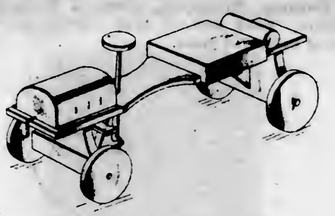
The new and ornamental design for a correction indicator for a dictation machine as shown.

58,538. BOX-TRAY OR ARTICLE OF SIMILAR NATURE. MATTHEW GEORGE BECKER, Chicago, Ill. Filed Dec. 9, 1919. Serial No. 343,606. Term of patent 3½ years.



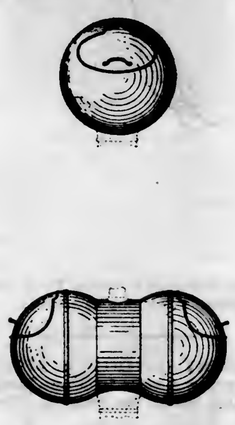
The ornamental design for a box tray or article of similar nature as shown.

58,539. AUTO-COASTER. EDDIE L. BERARD, North Bennington, Vt. Filed May 14, 1921. Serial No. 469,573. Term of patent 14 years.



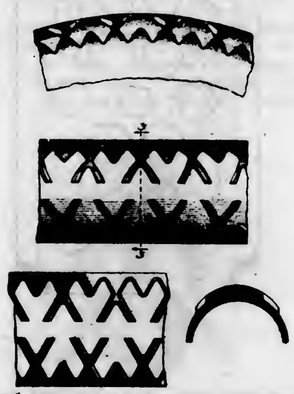
The ornamental design for an autocoaster, as shown.

58,540. STERILIZER. MANUEL BLICKMAN, New York, N. Y. Filed Nov. 10, 1919. Serial No. 337,027. Term of patent 14 years.



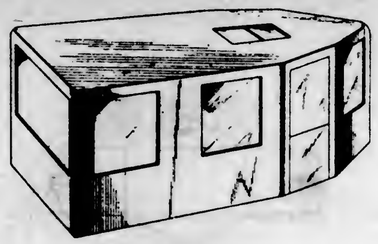
The ornamental design for a sterilizer, as shown and described.

58,541. PNEUMATIC TIRE. FREDERICK A. BOLLINGER, Akron, Ohio, assignor to The Oldfield Tire Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 14, 1921. Serial No. 452,322. Term of patent 14 years.



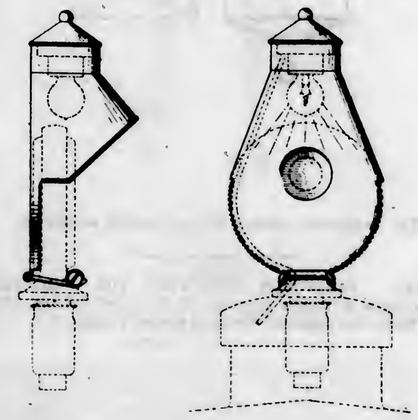
The ornamental design for a pneumatic tire as shown.

58,542. VEHICLE-BODY. CHARLES H. BOWMAN, Washington, D. C. Filed Feb. 19, 1920. Serial No. 359,939. Term of patent 14 years.



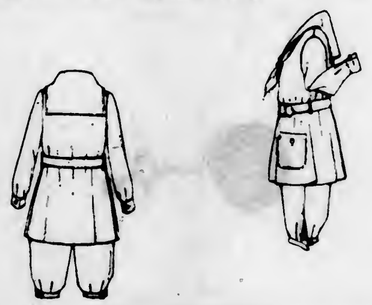
The ornamental design for a vehicle body, substantially as shown.

58,543. COMBINED LAMP SUPPORT AND CASING. WILLIAM J. CALLAHAN, Worcester, Mass. Filed Dec. 6, 1920. Serial No. 428,830. Term of patent 14 years.



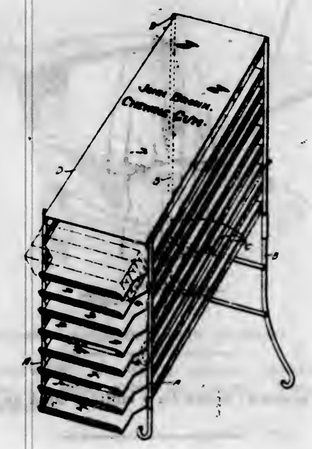
The ornamental design for a combined lamp support and casing, as shown.

58,544. LADY'S SPORT-COSTUME. LUCIA J. CARLETON, Dorchester, Mass. Filed Jan. 6, 1921. Serial No. 435,524. Term of patent 7 years.



The ornamental design for a lady's sport costume, as shown.

58,545. GUM-PACKAGE-DISPENSING RECEPTACLE OR SIMILAR ARTICLE. THEODORE E. CARCELIUS, St. Louis, Mo., assignor to Multiplex Display Fixture Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 18, 1921. Serial No. 462,451. Term of patent 14 years.



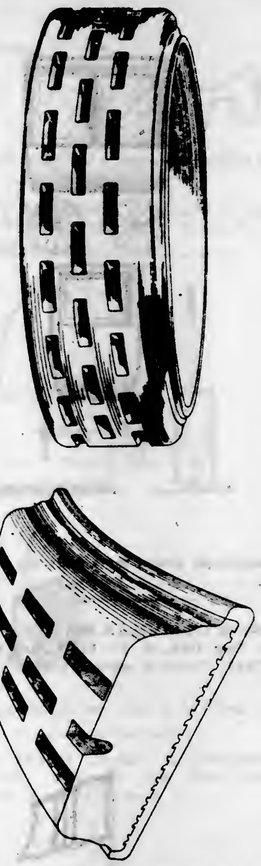
The ornamental design for a gum-package dispensing receptacle or similar article substantially as shown and described.

58,546. PANELED STOCK-POT. HOWARD A. CHURCH, Elkhart, Ind. Filed Feb. 4, 1921. Serial No. 442,555. Term of patent 7 years.



The ornamental design for a paneled stock pot, as shown.

58,547. SOLID-RUBBER TIRE. LEE E. CLOUGH, Akron, Ohio, assignor to The Mason Tire & Rubber Company, Kent, Ohio, a Corporation of Ohio. Filed Feb. 2, 1921. Serial No. 442,001. Term of patent 7 years.



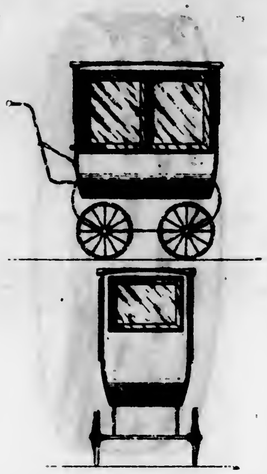
The ornamental design for a solid rubber tire as shown.

58,548. WASHING-MACHINE CASING. ROBERT G. CLYNE and KITTY RAYBURN, St. Louis, Mo. Filed Aug. 2, 1920. Serial No. 400,874. Term of patent 14 years.



The ornamental design for a washing machine casing, as shown.

58,549. BODY FOR A BABY-CARRIAGE. Joseph E. Crate, Loudonville, Ohio. Filed May 2, 1921. Serial No. 466,287. Term of patent 14 years.



The ornamental design for a body for a baby carriage, as shown.

58,550. BANK OR SIMILAR ARTICLE. Mary Beatrice Cusick, New York, N. Y. Filed June 1, 1918. Serial No. 237,817. Term of patent 7 years.



The ornamental design for a bank or similar article as shown.

58,551. MILITARY CLOAK AND SKIRT. Katherine Cowan Dalton, Washington, D. C. Filed May 24, 1918. Serial No. 236,434. Term of patent 3½ years.



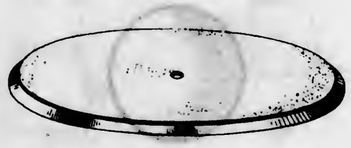
The ornamental design for a military cloak and skirt, as shown.

58,552. TALKING-MACHINE. John A. Davis, Washington, D. C. Filed June 19, 1920. Serial No. 390,263. Term of patent 7 years.



The ornamental design for a talking machine, as shown and described.

58,553. TURNTABLE FOR TALKING-MACHINES. John A. Davis, Washington, D. C. Filed June 19, 1920. Serial No. 390,264. Term of patent 7 years.



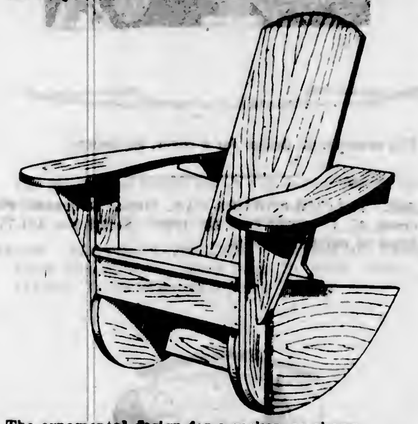
The ornamental design for a turntable for talking machines, as shown and described.

58,554. CHAIR. Joseph H. Dodson, Kankakee, Ill. Filed Dec. 11, 1920. Serial No. 430,061. Term of patent 14 years.



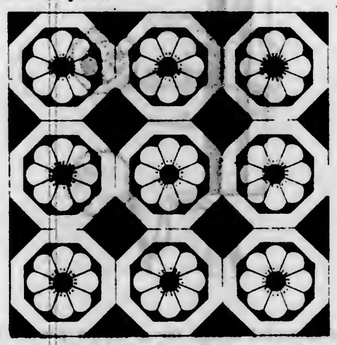
The ornamental design for a chair, as shown.

58,555. ROCKER. Joseph H. Dodson, Kankakee, Ill. Filed Dec. 11, 1920. Serial No. 430,062. Term of patent 14 years.



The ornamental design for a rocker, as shown.

58,556. LINOLEUM. William J. Donnelly, Butte, Mont. Filed Aug. 27, 1919. Serial No. 320,315. Term of patent 14 years.



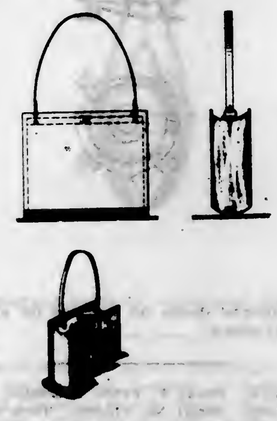
The ornamental design for linoleum, as shown.

58,557. RACK. Clifford Clinton Dudley, Wallingford, Conn., assignor to H. L. Judd Company, Wallingford, Conn., a Corporation of New York. Filed Feb. 21, 1921. Serial No. 446,958. Term of patent 14 years.



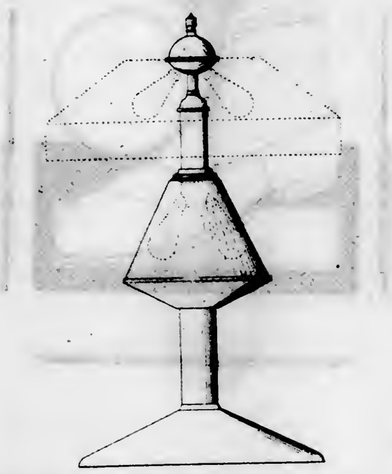
The ornamental design for a rack substantially as shown.

58,558. LADY'S HANDBAG. Abraham C. Fisher, New York, N. Y. Filed Aug. 20, 1920. Serial No. 404,920. Term of patent 3½ years.



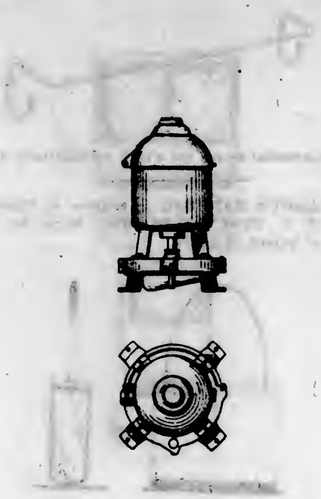
The ornamental design for a lady's handbag, as shown.

58,559. LAMP-STAND. Joseph G. Fitzgerald, San Francisco, Calif. Filed Nov. 29, 1920. Serial No. 427,244. Term of patent 14 years.



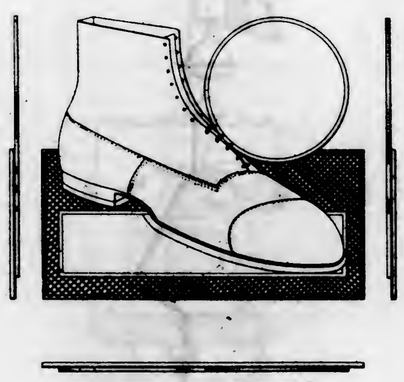
The ornamental design for a lamp stand, as shown.

58,560. CASING FOR AN ELECTRICAL GENERATOR. Ralph I. Frost, Augusta, Kans., assignor to The Geo. W. Brown & Son State Bank, trustee, Augusta, Kans. Filed Dec. 6, 1920. Serial No. 428,828. Term of patent 14 years.



The ornamental design for a casing for an electrical generator as shown.

58,561. SIGN. Oscar F. Funk, Lancaster, Pa. Filed Dec. 9, 1920. Serial No. 429,600. Term of patent 7 years.



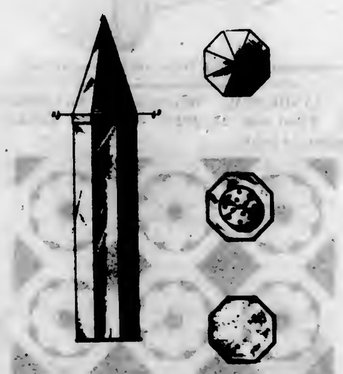
The ornamental design for a sign, as shown.

58,562. COVER. Samuel Geisman, New York, N. Y. Filed Nov. 27, 1920. Serial No. 426,818. Term of patent 14 years.



The ornamental design for a cover, as shown.

58,563. TALCUM-POWDER CAN. Henry Goldberg, Paterson, N. J. Filed Dec. 18, 1920. Serial No. 431,773. Term of patent 14 years.



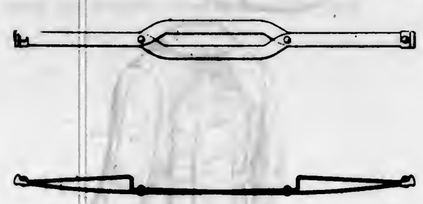
The ornamental design for a talcum powder can, as shown.

58,564. BROOCH OR THE LIKE. Berta B. Gunnor, Beckley, W. Va. Filed Aug. 2, 1918. Serial No. 248,084. Term of patent 7 years.



The ornamental design for a brooch or the like as shown.

58,565. AUTOMOBILE BUMPER-BAR. Lewis P. Halladay, Decatur, Ill. Filed Oct. 29, 1920. Serial No. 420,573. Term of patent 14 years.



The ornamental design for an automobile bumper bar as shown.

58,566. FLATIRON-HOLDER. William H. Hawkes, South Nyack, N. Y. Filed Sept. 29, 1920. Serial No. 413,616. Term of patent 7 years.



The ornamental design for a flatiron holder as shown.

58,567. SUSPENDED LIGHT-FIXTURE. Carl H. Heide, Seattle, Wash., assignor to Perfeclite Manufacturing Company, Seattle, Wash., a Corporation of Washington. Filed Oct. 20, 1920. Serial No. 418,334. Term of patent 7 years.



The ornamental design for a suspended light fixture as shown.

58,568. SUSPENDED LIGHT-FIXTURE. Carl H. Heide, Seattle, Wash., assignor to Perfeclite Manufacturing Company, Seattle, Wash., a Corporation of Washington. Filed Oct. 20, 1920. Serial No. 418,335. Term of patent 7 years.



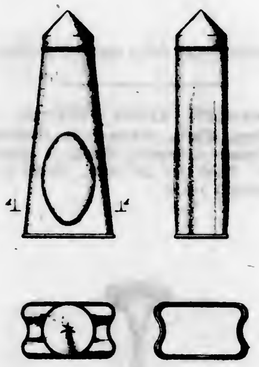
The ornamental design for a suspended light fixture as shown.

58,569. STAPLE-PULLER. OLE HERMANSON, Sun Prairie, Wis. Filed Oct. 28, 1920. Serial No. 420,900. Term of patent 7 years.



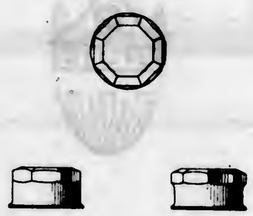
The ornamental design for a staple puller, as shown.

58,570. POWDER-CONTAINER. CLEN S. HUMPHREY, Brooklyn, N. Y. Filed Dec. 18, 1920. Serial No. 431,775. Term of patent 14 years.



The ornamental design for a powder container, substantially as shown.

58,571. CAP FOR POWDER-CONTAINER TOPS. FRANK S. HYATT, Brooklyn, N. Y. Filed Dec. 31, 1920. Serial No. 434,373. Term of patent 3½ years.



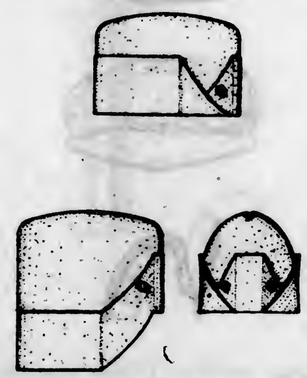
The ornamental design for a cap for powder container tops, as shown.

58,572. OVERCOAT, ULSTER, OR A SPORT SACK-COAT. SAMUEL S. JACKSON, Columbus, Ohio. Filed Dec. 30, 1919. Serial No. 348,494. Term of patent 7 years.



The ornamental design for an overcoat, ulster, or a sport sack coat, substantially as shown.

58,573. KNITTED CAP. ELMER N. JOHA, Milwaukee, Wis., assignor to Reliable Knitting Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 30, 1921. Serial No. 465,841. Term of patent 14 years.



The ornamental design for a knitted cap, as shown.

58,574. DOLL. FREDERICK KAUPMANN, Jr., Brooklyn, N. Y., assignor to The Faultless Rubber Company, Ashland, Ohio, a Corporation of Ohio. Filed Sept. 3, 1920. Serial No. 408,048. Term of patent 14 years.



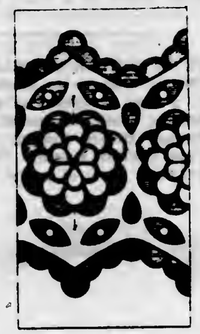
The ornamental design for a doll, as shown.

58,575. DOLL. FREDERICK KAUPMANN, Jr., Brooklyn, N. Y., assignor to The Faultless Rubber Company, Ashland, Ohio, a Corporation of Ohio. Filed Sept. 3, 1920. Serial No. 408,049. Term of patent 14 years.



The ornamental design for a doll, as shown.

58,576. TRIMMING FOR WEARING-APPAREL. FRANK J. KEIL, New York, N. Y. Filed May 20, 1921. Serial No. 471,243. Term of patent 3½ years.



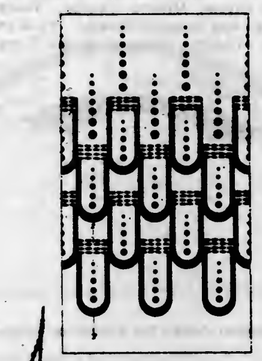
The ornamental design for a trimming for wearing apparel as shown.

58,577. TRIMMING FOR WEARING-APPAREL. FRANK J. KEIL, New York, N. Y. Filed May 20, 1921. Serial No. 471,244. Term of patent 3½ years.



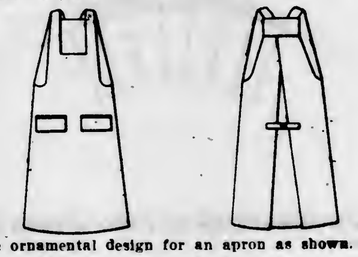
The ornamental design for a trimming for wearing apparel as shown.

58,578. TRIMMING FOR WEARING-APPAREL. FRANK J. KEIL, New York, N. Y. Filed May 28, 1921. Serial No. 473,406. Term of patent 3½ years.



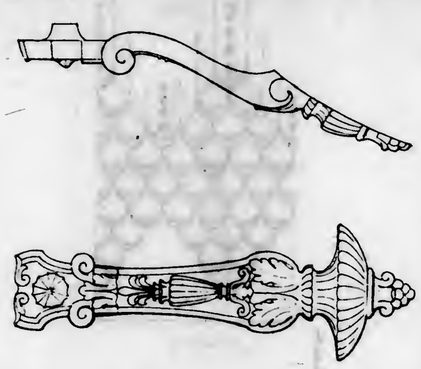
The ornamental design for a trimming for wearing apparel as shown.

58,579. APRON. ISAAC B. KELLER, Philadelphia, Pa. Filed Jan. 29, 1920. Serial No. 354,939. Term of patent 14 years.



The ornamental design for an apron as shown.

58,580. ARM FOR LIGHTING-FIXTURES. MAX KLEIN, New York, N. Y., assignor to Shapiro & Aronson, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 28, 1920. Serial No. 420,294. Term of patent 3½ years.



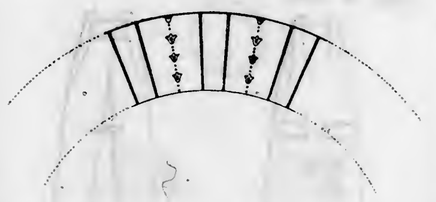
The ornamental design for an arm for lighting fixtures, as shown.

58,581. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,501. Term of patent 7 years.



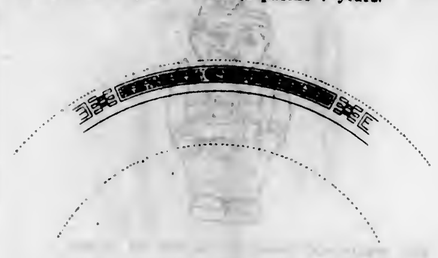
The ornamental design for a plate or similar article, as shown.

58,582. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,502. Term of patent 7 years.



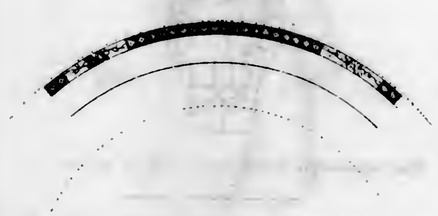
The ornamental design for a plate or similar article, as shown.

58,583. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,503. Term of patent 7 years.



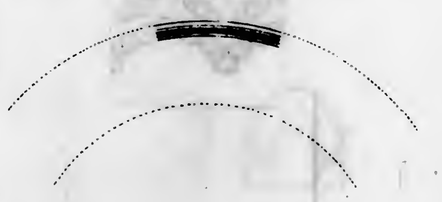
The ornamental design for a plate or similar article, as shown.

58,584. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,504. Term of patent 7 years.



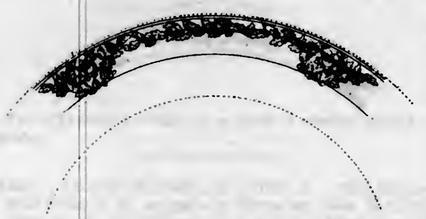
The ornamental design for a plate or similar article, as shown.

58,585. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,505. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

58,586. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,506. Term of patent 7 years.



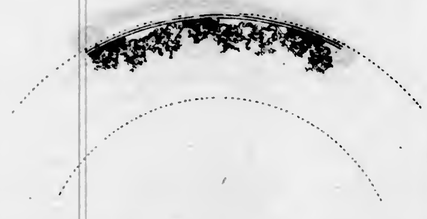
The ornamental design for a plate or similar article, as shown.

58,587. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,507. Term of patent 7 years.



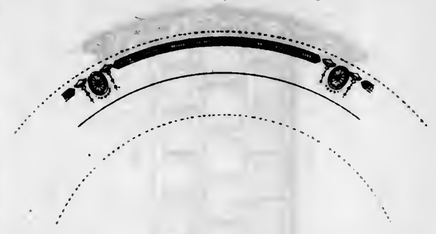
The ornamental design for a plate or similar article, as shown.

58,588. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,508. Term of patent 7 years.



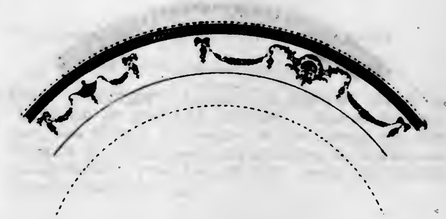
The ornamental design for a plate or similar article, as shown.

58,589. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,509. Term of patent 7 years.



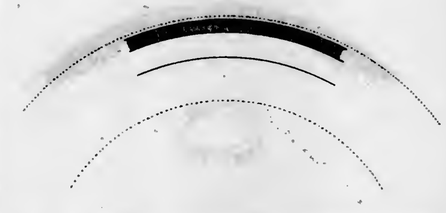
The ornamental design for a plate or similar article, as shown.

58,590. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,510. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

58,591. PLATE OR SIMILAR ARTICLE. TEIJI KOTATO, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,511. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

58,592. PLATE OR SIMILAR ARTICLE. Teiji Kotato, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,512. Term of patent 7 years.



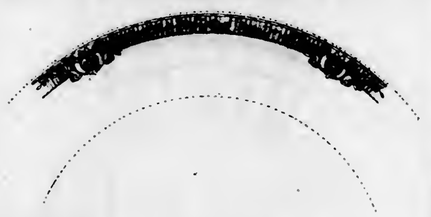
The ornamental design for a plate or similar article, as shown.

58,593. PLATE OR SIMILAR ARTICLE. Teiji Kotato, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,513. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

58,594. PLATE OR SIMILAR ARTICLE. Teiji Kotato, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,514. Term of patent 7 years.



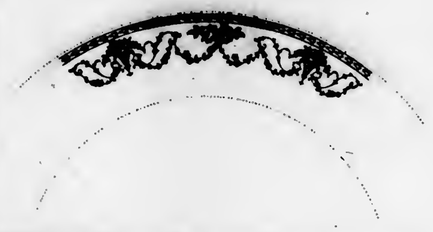
The ornamental design for a plate or similar article, as shown.

58,595. PLATE OR SIMILAR ARTICLE. Teiji Kotato, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,515. Term of patent 7 years.



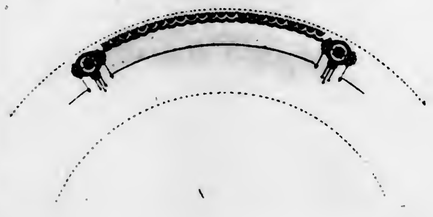
The ornamental design for a plate or similar article, as shown.

58,596. PLATE OR SIMILAR ARTICLE. Teiji Kotato, New York, N. Y., assignor to Morimura Bros., New York, N. Y., a Firm composed of Shikae Morimura, Kaisaku Morimura, Shigeki Morimura, Isamu Morimura, Saneyoshi Hirose, Minoru Tanaka, Yasukata Murai, Taru Murai, and Eunoske Jinushi. Filed Oct. 16, 1920. Serial No. 417,517. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

58,597. PLATE OR SIMILAR ARTICLE. Teiji Kotato, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 31, 1921. Serial No. 441,430. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

58,598. PLATE OR SIMILAR ARTICLE, Teiji Kotato, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 31, 1921. Serial No. 441,431. Term of patent 7 years.



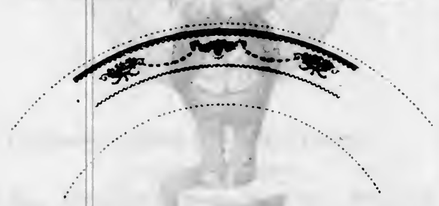
The ornamental design for a plate or similar article, as shown.

58,599. PLATE OR SIMILAR ARTICLE. Teiji Kotato, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 31, 1921. Serial No. 441,432. Term of patent 7 years.



The ornamental design for a plate or similar article, as shown.

58,600. PLATE OR SIMILAR ARTICLE, Teiji Kotato, New York, N. Y., assignor to Morimura Bros. Inc., New York, N. Y., a Corporation of Japan. Filed Jan. 31, 1921. Serial No. 441,433. Term of patent 7 years.



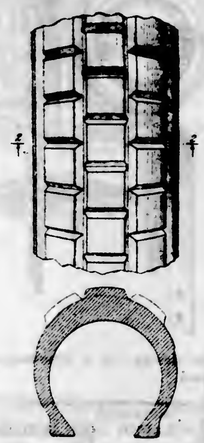
The ornamental design for a plate or similar article, as shown.

58,601. PRONGED SETTING FOR A JEWEL-MOUNTING. Jacques Kreisler, New York, N. Y. Filed July 15, 1920. Serial No. 396,616. Term of patent 7 years.



The ornamental design for a pronged setting for a jewel mounting, as shown.

58,602. TIRE-TREAD. Herbert W. Kuglin, Princeton, N. J., assignor to Globe Rubber Tire Manufacturing Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 10, 1920. Serial No. 350,710. Term of patent 14 years.



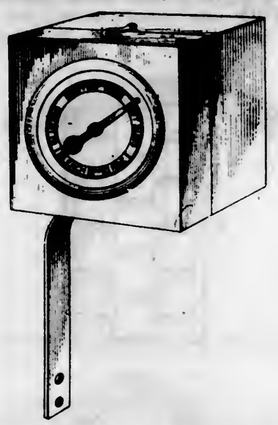
The ornamental design for a tire tread as shown.

58,603. JEWELRY — NAMELY, A FINGER-RING OR ARTICLE OF SIMILAR NATURE. Isidore H. Lapidus, New York, N. Y., assignor to Eles Jewelry Co., New York, N. Y., a Firm consisting of Isidore H. Lapidus and Lazar Seliber. Filed Jan. 20, 1921. Serial No. 436,755. Term of patent 14 years.



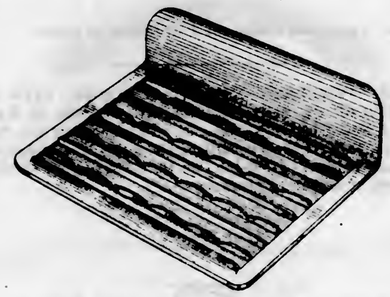
The ornamental design for jewelry—namely, a finger ring or article of similar nature as shown.

58,604. TIME-INDICATOR FOR USE IN LAUNDRIES. Eli E. Labocque, Pawtucket, R. I. Filed Apr. 29, 1921. Serial No. 465,539. Term of patent 3½ years.



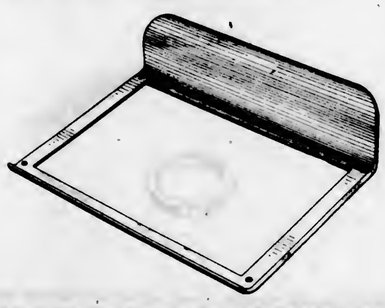
The ornamental design for a time-indicator for use in laundries, as shown.

58,605. FOOT-SCRAPER FOR AUTOMOBILES. Fremont P. Livingston, Denver, Colo. Filed Oct. 13, 1920. Serial No. 416,764. Term of patent 14 years.



The original design for a foot scraper for automobiles, as shown.

58,606. FOOT-MAT FRAME FOR AUTOMOBILES. Fremont P. Livingston, Denver, Colo. Filed Oct. 13, 1920. Serial No. 416,765. Term of patent 14 years.



The original design for a foot mat frame for automobiles, as shown.

58,607. JAR. James Maurice Luchessa, Cambria, Calif. Filed Dec. 2, 1920. Serial No. 427,911. Term of patent 14 years.



The ornamental design for a jar, substantially as shown.

58,608. STATUETTE, WATCH-FOB, EMBLEM, BADGE, RADIATOR-CAP, OR AN ARTICLE OF SIMILAR NATURE. Mary Marston, Omaha, Nebr. Filed Jan. 10, 1921. Serial No. 436,359. Term of patent 7 years.



The ornamental design for a statuette, watch fob, emblem, badge, radiator cap, or article of similar nature, substantially as shown.

58,609. GEM-SETTING OR SIMILAR ARTICLE. Joshua W. Mayer, New York, N. Y. Filed Jan. 19, 1921. Serial No. 438,455. Term of patent 7 years.



The ornamental design for a gem setting or similar article, as shown.

58,610. NON-SKID TIRE. Harry McCreary, Indiana, Pa. Filed June 11, 1920. Serial No. 388,366. Term of patent 14 years.



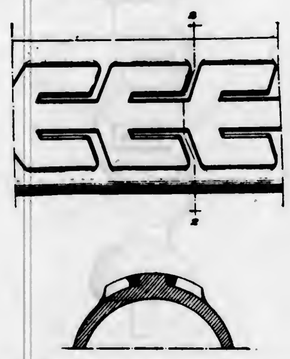
The ornamental design for a non-skid tire, as shown.

58,611. BADGE. Edgar C. McUpson, Washington, D. C., assignor of one-half to Reuben B. Browning, Spartanburg, S. C. Filed June 22, 1920. Serial No. 390,922. Term of patent 3½ years.



The ornamental design for a badge, as shown.

58,612. AUTOMOBILE-TIRE. Brainerd L. Mellinger, Kansas City, Mo. Filed Feb. 10, 1921. Serial No. 444,050. Term of patent 7 years.



The ornamental design for an automobile tire as shown.

58,613. STUDY-CHAIR. Otto E. Mosser, Port Washington, Wis., assignor to The Wisconsin Chair Company, Port Washington, Wis. Filed Dec. 24, 1920. Serial No. 433,081. Term of patent 14 years.



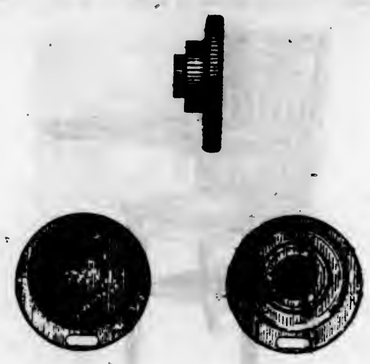
The ornamental design for a study chair, substantially as shown.

58,614. CABINET FOR PHONOGRAPHS. Ralph W. Morrison, Omaha, Nebr. Filed Dec. 26, 1919. Serial No. 347,615. Term of patent 3½ years.



The ornamental design for cabinet for phonographs as shown.

58,615. SOUND-BOX CASING. WALDO G. MOSES, Yonkers, N. Y. Filed May 5, 1919. Serial No. 295,600. Term of patent 7 years.



The ornamental design for a sound-box casing, substantially as shown.

58,616. LENS. ALPHONS G. MULLER and CHARLES MCMULLEN, Flemington, N. J. Filed Aug. 7, 1920. Serial No. 402,017. Term of patent 14 years.



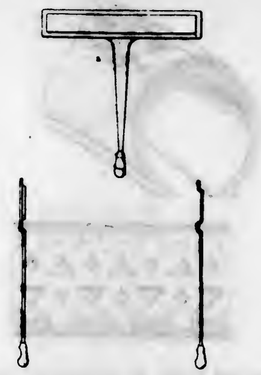
The ornamental design for a lens, substantially as shown.

58,617. WEDDING-RING. CHARLES B. NAMIOT, New York, N. Y. Filed Nov. 12, 1920. Serial No. 423,734. Term of patent 14 years.



The ornamental design for a wedding ring as shown.

58,618. PEN AND PENCIL CLIP BLANK. WILLIAM NEUSWANGER, Glenwood Springs, Colo. Filed Jan. 28, 1919. Serial No. 273,657. Term of patent 14 years.



The ornamental design for a pen and pencil clip blank, as shown.

58,619. BRACKET FOR PILLOW-SHAM HOLDERS. HARRY F. OLLIS, East Lexington, Mass. Filed Dec. 15, 1920. Serial No. 430,967. Term of patent 14 years.



The ornamental design for a bracket for pillow sham holders as shown.

58,620. HAND-GRIP FOR A FILE OR SIMILAR ARTICLE. JOHN L. OSGOOD, Buffalo, N. Y. Filed Apr. 19, 1921. Serial No. 462,715. Term of patent 14 years.



The ornamental design for a hand grip for a file or similar article, substantially as shown and described.

58,621. HAND-GRIP FOR A FILE OR SIMILAR ARTICLE. JOHN L. OSGOOD, Buffalo, N. Y. Filed Apr. 19, 1921. Serial No. 462,716. Term of patent 14 years.



The ornamental design for a hand grip for a file or similar article, substantially as shown and described.

58,622. HAND-GRIP FOR A FILE OR SIMILAR ARTICLE. JOHN L. OSGOOD, Buffalo, N. Y. Filed Apr. 19, 1921. Serial No. 462,717. Term of patent 14 years.



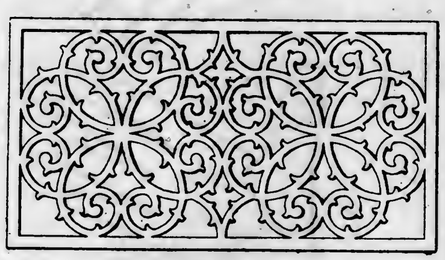
The ornamental design for a hand grip for a file or similar article, substantially as shown and described.

58,623. HAND-GRIP FOR A FILE OR SIMILAR ARTICLE. JOHN L. OSGOOD, Buffalo, N. N. Y. Filed Apr. 19, 1921. Serial No. 462,718. Term of patent 14 years.



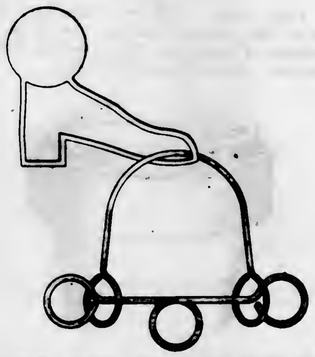
The ornamental design for a hand grip for a file or similar article, substantially as shown and described.

58,624. GRILLE FOR PHONOGRAPH-CABINETS AND ORGANS. SISSAG K. OUZOUN-BOGHOSSIAN, Washington, D. C. Filed Apr. 4, 1921. Serial No. 458,553. Term of patent 3½ years.



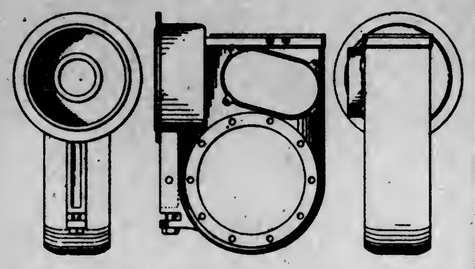
The ornamental design for a grille for phonograph cabinets and organs, as shown.

58,625. PUZZLE DEVICE. CHARLES R. PALMER, Cincinnati, Ohio. Filed Mar. 28, 1919. Serial No. 285,937. Term of patent 7 years.



The ornamental design for a puzzle device as shown.

58,626. TRANSMISSION-CASE FOR A TRACTOR. CARL T. PENTON, Detroit, Mich. Filed Mar. 5, 1921. Serial No. 450,102. Term of patent 14 years.



The ornamental design for a transmission case for a tractor as shown.

58,627. GLOVE. EDUARDO PERRONE, Gloversville, N. Y. Filed Feb. 10, 1919. Serial No. 276,237. Term of patent 14 years.



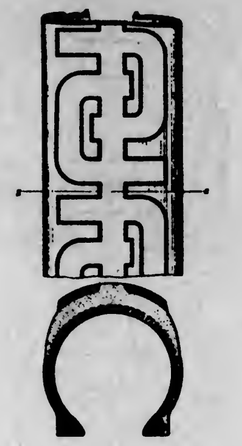
The ornamental design for a glove as shown.

58,628. CAN. ISAAC C. POPPER, New York, N. Y., assignor to The Theros Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 12, 1919. Serial No. 344,480. Term of patent 14 years.



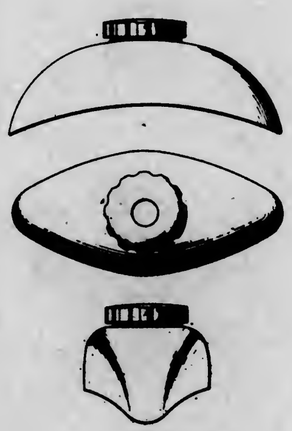
The ornamental design for a can, as shown.

58,629. AUTOMOBILE-TIRE TREAD. JAMES R. KILBY, Dunbar, W. Va., assignor to Dunbar Tire and Rubber Company, Charleston, W. Va., a Corporation of West Virginia. Filed June 26, 1920. Serial No. 392,086. Term of patent 14 years.



The ornamental design for an automobile tire tread, as shown.

58,630. RADIATOR-FILLING CAP. FLOYD A. BUCKMAN, Fort Wayne, Ind. Filed Feb. 24, 1921. Serial No. 447,620. Term of patent 7 years.



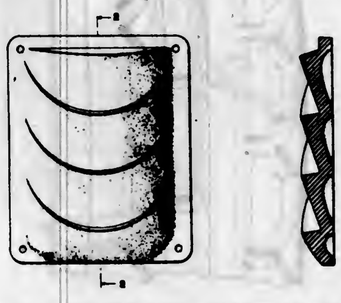
The ornamental design for a radiator filling cap as shown.

58,631. DISPLAY-CARD. SAMUEL SAMPSON, New York, N. Y. Filed Nov. 16, 1020. Serial No. 424,583. Term of patent 3½ years.



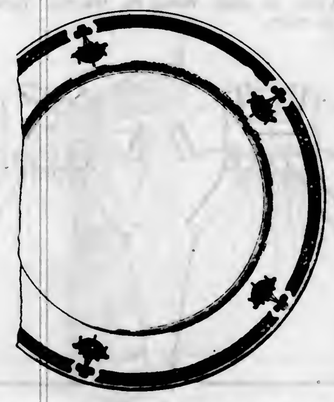
The ornamental design for a display card, as shown.

58,632. HEEL-REST. WALTER E. SANDERS, Trenton, N. J., assignor to Essex Rubber Company, Trenton, N. J., a Corporation of New Jersey. Filed Feb. 5, 1920. Serial No. 356,409. Term of patent 7 years.



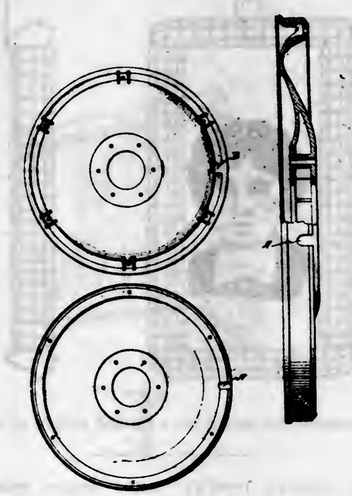
The ornamental design for a heel rest as shown.

58,633. PLATE OR SIMILAR ARTICLE. EMIL L. SCHNEPF, Trenton, N. J., assignor to Maddock Pottery Company, Trenton, N. J. Filed Mar. 9, 1921. Serial No. 450,964. Term of patent 14 years.



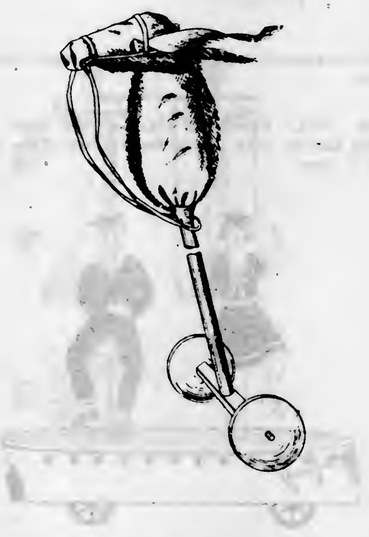
The ornamental design for a plate or similar article, as shown.

58,634. WHEEL-DISK. FRED. C. SCHOENTHAL, Buffalo, N. Y. Filed Apr. 5, 1920. Serial No. 371,496. Term of patent 14 years.



The ornamental design for a wheel disk, as shown.

58,635. HOBBYHORSE. BESS SHINN and LITA SHINN, White Sulphur Springs, W. Va. Filed Mar. 26, 1920. Serial No. 369,161. Term of patent 3½ years.



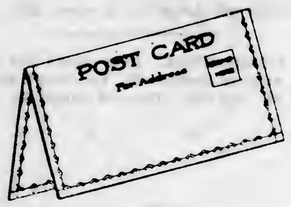
The ornamental design for a hobbyhorse, as shown.

58,636. FRAMED PICTURE. CHARLES SMYKOWSKI, Youngstown, Ohio. Filed June 30, 1920. Serial No. 393,194. Term of patent 3½ years.



The ornamental design for a framed picture as shown.

58,637. SEALED POSTAL CARD. STEVEN STEFANKO, Glen Carbon, Pa. Filed July 13, 1920. Serial No. 396,025. Term of patent 7 years.



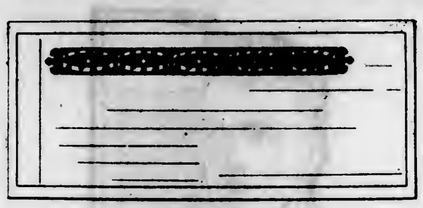
The ornamental design for a "sealed postal card" as shown.

58,638. TOY. FERDINAND STRAUSS, New York, N. Y. Filed May 21, 1921. Serial No. 471,505. Term of patent 7 years.



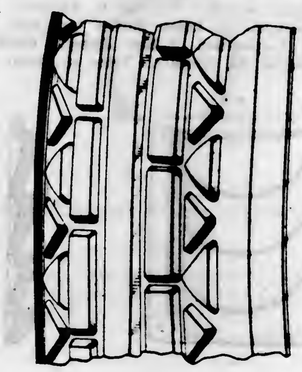
The ornamental design for a toy, as shown.

58,639. BANK-CHECK. BENJAMIN F. STUART, San Antonio, Tex. Filed Nov. 24, 1919. Serial No. 340,413. Term of patent 3½ years.



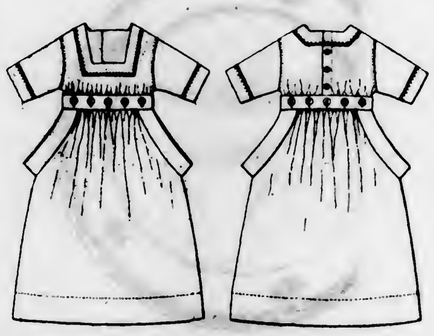
The ornamental design for a bank check, as shown.

58,640. PNEUMATIC-TIRE TREAD. FRANK R. TALBOTT, Springfield, Ohio, assignor to The Victor Rubber Company, Springfield, Ohio, a Corporation of Ohio. Filed Dec. 27, 1920. Serial No. 433,518. Term of patent 14 years.



The ornamental design for a pneumatic tire tread, as shown.

58,641. DRESS. JUNE RAND TAYLOR, Los Angeles, Calif. Filed Nov. 13, 1920. Serial No. 424,002. Term of patent 3½ years.



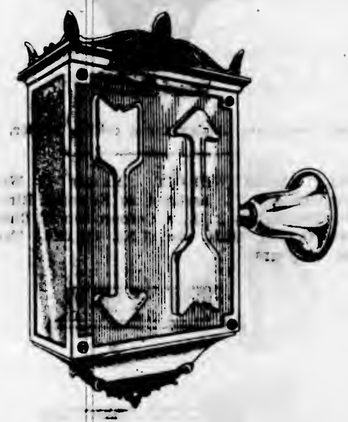
The ornamental design for a dress, as shown.

58,642. BUTTON OR BADGE. FRANK A. THILL, Cincinnati, Ohio. Filed Oct. 21, 1920. Serial No. 418,630. Term of patent 7 years.



The ornamental design for a button or badge as shown.

58,643. ELEVATOR-SIGNAL. PAUL SCHUYLER VAN BLOEM, Hempstead, N. Y. Filed Feb. 16, 1921. Serial No. 445,556. Term of patent 7 years.



The ornamental design for an elevator signal, as shown.

58,644. ELEVATOR-SIGNAL. PAUL SCHUYLER VAN BLOEM, Hempstead, N. Y. Filed Feb. 16, 1921. Serial No. 445,557. Term of patent 3½ years.



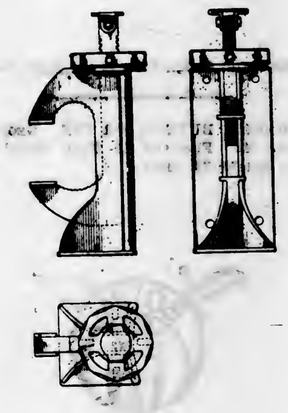
The ornamental design for an elevator signal as shown.

58,645. ELEVATOR-SIGNAL. PAUL SCHUYLER VAN BLOEM, Hempstead, N. Y. Filed Feb. 16, 1921. Serial No. 445,558. Term of patent 7 years.



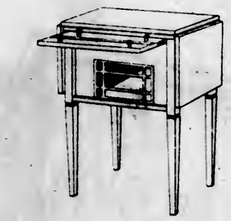
The ornamental design for an elevator signal as shown

58,646. COMBINATION LIFTING-JACK AND VISE. DANIEL P. NICK, Seattle, Wash. Filed Aug. 10, 1920. Serial No. 402,705. Term of patent 14 years.



The ornamental design for a combination lifting jack and vise as shown.

58,647. PHONOGRAPH-CASE. JOHN M. WADDELL, Greenfield, Ohio. Filed Apr. 2, 1919. Serial No. 287,086. Term of patent 7 years.



The ornamental design for a phonograph case as shown.

58,648. PHONOGRAPH-CASE. JOHN M. WADDELL, Greenfield, Ohio. Filed Apr. 2, 1919. Serial No. 287,087. Term of patent 7 years.



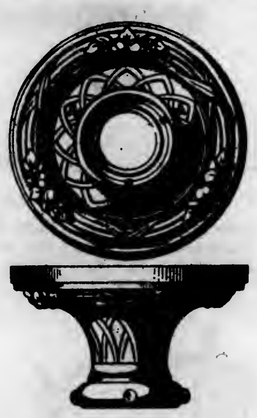
The ornamental design for a phonograph case as shown.

58,649. BADGE, BUTTON, OR PIN. GEORGE WALTER, Baltimore, Md. Filed Oct. 11, 1920. Serial No. 416,327. Term of patent 3½ years.



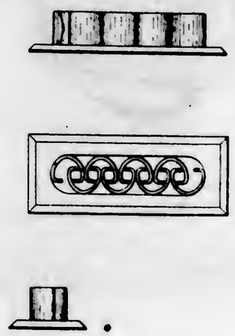
The ornamental design for a badge, button, or pin, as shown.

58,650. CEILING-HOLDER. LESTER R. WELLMAN, Chicago, Ill., assignor to Friedly-Voshardt Co., Chicago, Ill., a Corporation of Illinois. Filed Dec. 22, 1920. Serial No. 432,619. Term of patent 7 years.



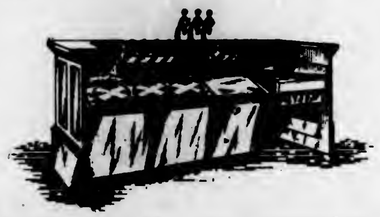
The ornamental design for a ceiling holder, as shown.

58,651. PAPER-WEIGHT. PHILIP C. WENTWORTH, Providence, R. I., assignor to National Ring Traveler Co., Providence, R. I., a Corporation of Rhode Island. Filed Oct. 21, 1920. Serial No. 418,628. Term of patent 14 years.



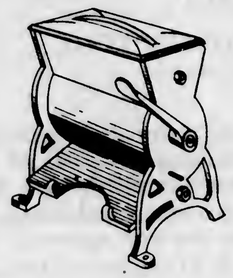
The ornamental design for a paper weight or like article of manufacture as shown.

58,652. SODA-FOUNTAIN. FRANK T. WIECHERT, Lakewood, Ohio. Filed Sept. 22, 1920. Serial No. 412,102. Term of patent 3½ years.



The ornamental design for a soda-fountain, as shown.

58,653. TOOTHPICK-VENDER. MILES WILSON, Canastota, N. Y., assignor to George E. Chambers, Oneida, N. Y. Filed Mar. 8, 1921. Serial No. 450,638. Term of patent 14 years.



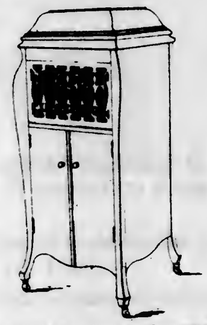
The ornamental design for a toothpick vender as shown.

58,654. SIFTER-TOP RECEPTACLE. MORRIS WOLF, New York, N. Y. Filed Dec. 2, 1920. Serial No. 427,910. Term of patent 3½ years.



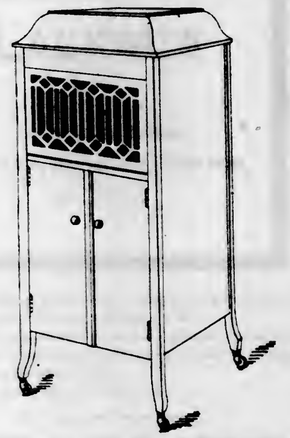
The ornamental design for a sifter top receptacle, as shown.

58,655. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed May 5, 1920. Serial No. 379,138. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

58,656. PHONOGRAPH-CABINET. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora, Inc., a Corporation of New York. Filed May 5, 1920. Serial No. 379,139. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 22, 1922.

[PUBLISHED AUGUST 15, 1922.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 121,615. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULES BENOCHAUD, Olive Bridge, N. Y. Filed Aug. 13, 1919.



No claim being made to the word "Guernseys" apart from the trade-mark as shown.

Particular description of goods.—Live Cattle, Calves, Swine, Goats, Sheep, Butter, and Milk.

Claims use since Dec. 1, 1917.

Ser. No. 126,665. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) VULCAN CRUCIBLE STEEL COMPANY, Aliquippa, Pa. Filed Dec. 30, 1919.

VULCAN SPECIAL

Particular description of goods.—Tool-Steel.

Claims use since Jan. 1, 1902.

Ser. No. 126,939. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUNDY, WILSON & COMPANY LIMITED, London, England. Filed Jan. 8, 1920.

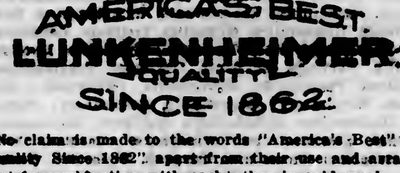


No claim being made to the legend "Immediately Relieves Asthma, Hay Fever, Catarrh," &c.

Particular description of goods.—Asthmatic Papers and Cigarettes Not Containing Tobacco, and Being Medicated Preparations for Human Use.

Claims use since Sept. 7, 1905.

Ser. No. 126,941. (CLASS 12. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE LUNKENHEIMER COMPANY, Cincinnati, Ohio. Filed Jan. 8, 1920.



No claim is made to the words "America's Best" and "Quality Since 1862" apart from their use and arrangement in combination with each other in said mark.

Under section 9 of the act of March 19, 1920.

Particular description of goods.—Valves for Steam, Air, Liquids, and Gas as Used in Pipe Lines; Floor Stands as Used for Operating Valves; Cocks; Pipe Fittings—Namely, Elbows, T's, Crosses, and other Fittings Which Serve as Pipe Connections, But Which Cannot be Closed or Opened to Control the Flow of Steam, Air, Liquids, or Gas Through the Pipes; Pipe Unions; Nozzles for Compressed Air; Sand-Blast Nozzles.

Claims use since Dec. 1, 1919.

Ser. No. 127,762. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MELBA MANUFACTURING COMPANY, Chicago, Ill. Filed Jan. 30, 1920.

ADORME

Particular description of goods.—Perfumes, Face-Powders, Talcum Powders, Toilet Water, Sachets, Sachet-Powders, Rouge, and Lip-Sticks.

Claims use since about Sept. 1, 1919.

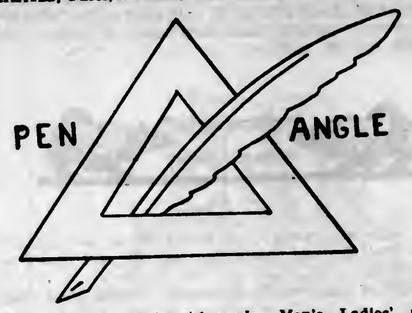
Ser. No. 127,854. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DRUG PRODUCTS CO., INC., New York, N. Y. Filed Feb. 2, 1920.



Particular description of goods.—Alteratives, Analgesics, Anaphrodisiacs, Anesthetics, Anodynes, Antacids, Anthelmintics, Antichlorotics, Anti-Emetics, Anti-Epileptics, Antigalactagogues, Antigonorrheics, Antihidrotics, Antilithics, Antineuralgics, Antiparasitics, Antiperiodics, Antiphlogistics, Antipyretics, Antirheumatics, Antisialagogues, Antispasmodics, Antisymotics, Aperients, Aphrodisiacs, Astringents, Cardiac Sedatives, Cardiac Stimulants, Carminatives, Cathartics, Cerebral Depressants and Stimulants, Cholagogues, Constructives, Counter-Irritants, Demulcents, Deodorants, Deoxidizers, Depilatories, Depressants, Diaphoretics, Digestives, Discutients, Disinfectants, Diuretics, Echolics, Emetics, Emmenagogues, Errhines, Escharotics, Expectorants, Galactagogues, Gastric Tonics, Hemostatics, Hypnotics, Irritants, Laxatives, Motor-Depressants, Motor-Excitants, Mydriatics, Myotics, Narcotics, Nervines, Nutrients, Oxytocics, Ptyalagogues, Purgatives, Pustulants; Refrigerants, (Medicinal;) Resolvents, Respiratory; Depressants, Respiratory; Stimulants, Restoratives, Rubefacients, Sedatives, Sialagogues, Soporifics, Sternutatories; Stimulants, (Cardiac, Cerebral, Hepatic;) Stomachics, Styptics, Sudorifics, Tenifuges, General Tonics, Vasoconstrictors, Vasodilators, Vascular, Sedatives, Vermicides, Vesicants; Chemicals and Drugs—Namely, the Following: Acacia, Acetanilid, Acetone, Acetphenetidin; Acids—Namely, Acetic, Acetic Anhydrid, Glacial Acetic, Acetylsalicylic, Arsenous, Arsenic Trioxid; Benzoic, Boric, Carbolic, Chromic, Citric, Gallic, Hydriodic, Hydrobromic, Hydrochloric, Hydrofluoric, Hypophosphorous, Lactic, Molybdic, Nitric, Nitrohydrochloric, Oleic, Oxalic, Phosphoric, Glacial Phosphoric, Phosphotungstic, Pyrogallic, Salicylic, Stearic, Sulfuric; Sulfuric, Aromatic; Sulfurous, Tannic, Tartaric, Trichloracetic; Aconite-Root, Aconitin Crystals; Allspice (Pimenta) for Medicinal Purposes, Aloes, Aolin, Althea; Aluminum Compounds—Namely, the Following: Alum, Ammonium; Alum, Exsiccated; Alum, Chrome; Alum, Ferric; Aluminum Acetate, Aluminum Nitrate, Aluminum Sulfate; Ammonium and Ammonium Compounds—Namely, Ammonia-Water; Ammonium Benzoate, Bromid, Carbonate, Chlorid, Chromate, Citrate, Hypophosphite, Iodid, Molybdate, Nitrate, Oxalate, Persulfate, Phosphate, Salicylate, Sulfate, Sulfocyanate, Tartrate, Valerate, Amyl Acetate, Amyl Nitrite, Amylopsin, Anise; Antidote Arsenic; Antimony and Potassium Tartrate, Antipyrin, Aqua Ammonia, Arnica-Flowers and Arnica-Root, Aromatized Castor-Oil, Arsenic Iodid, Asbestos-Wool, Aspirin, Atropin, Atropin Sulfate, Baking-Powder, Balsam Peru, Balsam Tolu; Barium Compounds—Namely, Barium Acetate, Carbonate Chlorid, Dioxid, Hydroxid, Nitrate, Sulfate; Belladonna, Bensaldehyde, Benzoin; Bensol, (Benzene;) Benzonaphthol, Betanaphthol, Betanaphthol Benzoate; Bismuth Compounds—Namely, Bismuth Milk; Bismuth Citrate, Nitrate, Oxid, Oxychlorid, Oxyiodid, Subcarbonate, Subgallate, Subnitrate, Subsalicylate; Bismuth and Ammonium Citrate; Bloodroot, Borax, Buchu, Burrow's Solution, Cacao-Butter for Medicinal Purposes, Cadmium Iodid, Cadmium Nitrate, Cadmium and Potassium Iodid, Cadmium Sulfate, Caffein, Caffein Benzoate; Caffein, Citrated; Caffein Hydrobromid, Caffein and Sodium Benzoate, Caffein and Sodium Salicylate; Calcium Compounds—Namely, Calcium Acetate, Bromid, Carbonate, Chlorid, Glycerophosphate, Hypophosphite, Lactate, Lactophosphate, Oxid, Phenolsulfonate, Phosphate, Sulfid; Calendula, Calisaya-Bark, Calomel, Calumba, Camphor; Camphor, Monobromated; Cantharides, Capsicum, Carbon Disulfid, Carbon Tetrachlorid, Cardamom, Cardamom Compound, Cascara Sagrada, Caustic Potash, Caustic Soda, Cerium Oxalate; Chalk, Precipitated; Chamomile, Charcoal; Chloral, Camphorated; Chloral, Hydrated; Chloramin T, Chlorosane, Chlorinated Eucalyptol, Chloroform, Cinchona, Cinchona Compound; Cinchona, Red; Cinchonidin, Cinchonidin Salicylate, Cinchonidin Sulfate, Cinchonin, Cinchonin Sulfate, Cinnamon, Cassia, Cloves, Cobalt Chlorid, Cobalt Nitrate, Cocain and Cocain Salts, Cochineal, Codein and Codein Salts, Colchicin, Cold-Cream, Collodion, Confection Senna, Copper Acetate, Copper Sulfate, Corrosive Sublimate; Creosote, (Wood;) Creosote Carbonate, Cresol, Cubeb, Cudbear, Diacetylmorphin, Diastase from Malt, Diastase from Pancreas, Dichloramin T, Digitalin, Digitalis, Digitoxin, Eriodictyon, Ether; Ether, Acetic; Ethyl Bromid, Ethyl Chlorid, Eucalyptol, Eucalyptus, Eugenol, Fennel, Food Allergens, Foxglove, Gentian, Gentian Compound, Ginger for Medicinal Purposes, Glycerin, Glycerites; Glycyrrhiza, (Licorice-Root;) Gold Chlorid, Gold and Sodium Chlorid, Gualac Resin, Gualacol Carbonate, Gum-Arabic, Gum-Benjamin, Halazone Tablets; Hellebore, American; Hemoglobin, Henbane, Hexamethylenamin, Hydrastin, Hydrastin Hydrochlorid, Hydrogen Peroxid, Hyoscyamus, Hypodermic Tablets, Iodin, Iodoform, Ipecac; Iron and Iron Compounds—Namely, Iron, Reduced; Iron Albuminate, Arsenate, Cacodylate, Carbonate; Carbonate, Saccharated; Chlorid, Ferric; Ferrocyanid, Glycerophosphate, Hydroxid with Magnesium Oxid, Hypophosphite, Lactophosphate; Oxid, Red, Saccharated; Peptonate, Peptonate with Manganese, Phenolsulphate, Phosphate, Pyrophosphate, Subcarbonate, Subsulfate, Sulfate, Iron and Ammonium Citrate, Iron and Ammonium Sulfate, Iron and Ammonium Tartrate, Iron and Manganese Peptonate, Iron and Potassium Tartrate, Iron and Quinin Citrate; Iron, Quinin, and Strychnin Citrates; Iron and Strychnin Citrate, Jalap; Kaolin, Medicinal; Kaolin Poultice, Krameria, Lanolin; Lard, Benzoinated, Laudanum, Lavender Compound, Lead Acetate, Lead Carbonate, Lead Nitrate, Lead Oxid, Lead Peroxid, Leucocyte, Licorice, Lime for Medicinal Purposes; Lime, Chlorinated; Lime, Hydrated; Lime, Sulfureted; Medicinal Liquid Petroleum, Lithia Tablets, Lithium Benzoate, Lithium Bromid, Lithium Carbonate, Lithium Citrate, Lithium Glycerophosphate, Lithium Salicylate, Lithium Tartrate, Litmus-Paper, Lobelia, Lupulin, Mace, Magma Bismuth, Magma Magnesia; Magnesium Compounds — Namely, Magnesia; Magnesium Carbonate, Chlorid, Citrate, Glycerophosphate, Hypophosphite, Phosphate, Salicylate, Sulfate; Magnesium and Ammonium Phosphate; Manganese Compounds—Namely, Manganese Chlorid, Citrate, Dioxid, Glycerophosphate, Hypophosphite, Oxid, Sulfate; Marigold, Matricaria, Menthol; Mercury and Mercury Compounds—Namely, Mercury; Mercury, Ammoniated; Mercury Bromid, Chlorid, Iodid, Oleate, Oxid, Salicylate, Subsulfate, Sulfid, Tannate; Mercury and Ammonium Chlorid, Mercury with Chalk; Methyl Acetate, Methyl Salicylate, Methylthionin, Milk of Bismuth, Milk of Magnesia, Morphin, Morphin Salts, Mustard for Medicinal Purposes, Myrrh, Nickel Nitrate, Nickel Sulphate, Nickel and Ammonium Sulfate, Nutmeg for Medicinal Purposes, Nux Vomica; Oil Betula, Oil Bitter Almond; Oil, Camphorated; Oil, Castor; Oil, Castor, Aromatised; Oil, Cod-Liver; Oil, Ethereal; Oil Peppermint for Medicinal Purposes, Oil Theobroma, Oleoresin Capsicum, Oleoresin Cubeb, Oleoresin Ginger, Oleoresin Male Fern, Ophthalmic Tablets, Opium, Opodeldoc, Orange-Peel for Medicinal Purposes, Ox-Gall, Pancreatin, Paprika for Medicinal Purposes, Paraldehyde, Paregoric, Pareira, Pepper for Medicinal Purposes, Pepsin, Saccharated; Peptone, Peptonising-Powder, Peptonising-Tubes; Petrolatum, Liquid; Phenasone, Phenolphthalein; Phenyl Salicylate, (Salol;) Phenylacetamid; Physostigmin, (Eserin;) Physostigmin Salicylate, Physostigmin Sulfate, Pilocarpin Hydrochlorid; Pilocarpus, (Jaborandi;) Pimenta, Podophyllin; Potassium Compounds—Namely, Potassa, Sulfureted; Potassium Acetate, Benzoate, Bicarbonate, Binoxalate, Bisulfate, Bitartrate, Bromate, Bromid, Carbonate, Chlorate, Chlorid, Chromate, Citrate, Dichromate, Ferricyanid, Ferrocyanid, Glycerophosphate, Hydroxid, Hypophosphite, Iodid, Nitrate, Oxalate, Permanganate, Persulfate, Phenolsulfonate, Phosphate, Sulfate, Sulfid, Sulfocarbolate, Sulfocyanate, Tartrate; Potassium and Sodium Tartrate; Protargentum, Pyrogallol, Quinin; Quinin Salts—Namely, Quinin Bisulfate, Dihydrochlorid, Glycerophosphate, Hydrobromid, Hydrochlorid, Hypophosphite, Phosphate, Salicylate, Sulfate, Tannate, Valerate; Quinin and Urea Hydrochlorid, Rennin, Resin Jalap, Resin Podophyllum, Resin Scammony, Resorcinol, Rhatany, Rhubarb, Saccharin, Salol; Salt, Carlsbad, Artificial; Salt, Kissingen, Artificial; Salt, Vichy, Artificial; Sanguinaria, Santonin, Scopolamin Hydrobromid, Seidlitz-Powder, Senna; Silver, Colloidal; Silver Nitrate, Silver Protein, Sodium Compounds—Namely, Sodium Acetate, Acid Phosphate, Arsenate, Arsenite, Benzoate, Bicarbonate, Biphosphate, Bisulfate, Bisulfite, Bitartrate, Borate, Bromid, Cacodylate, Carbonate, Chlorate, Chlorid, Citrate, Cyanid, Glycerophosphate, Glycerocholate, Hydroxid, Hypophosphite, Iodid, Nitrate, Nitrite, Nitroprussid, Oxalate, Phenolsulfonate, Phosphate, Phosphate Compound, Pyrophosphate, Salicylate, Sulfate, Sulfite, Tartrate, Thiosulfate; Sodium and Ammonium Phosphate; Solargentum, Spartein Sulfate, Squill; Strontium Compounds—Namely, Strontium Acetate, Arsenite, Bromid, Chlorid, Iodid, Lactate, Nitrate, Salicylate; Strophanthin, Strychnin Salts and Compounds, Sugar of Milk, Sulfonethylmethane, Sulfonmethane, Sulfur, Suppositories, Suprarenals, Tartar Emetic, Terpin Hydrate, Theobromin, Theobromin and Sodium Salicylate, Thiosinamin, Thromboplastin, Thymol, Thymol Iodid; Thyroid Gland, Dried; Tin Chlorid, Stannous; Toluol, (Toluene;) Tragacanth, Uranium Acetate and Nitrate, Urease, Valerian, Vanillin, Veratrum Viride, White-Pine Bark, White-Pine Compound, Wild Cherry, Yerba Santa; Zinc Compounds—Namely, Zinc Acetate, Bromid, Carbonate, Chlorid, Iodid, Oxid, Phenolsulfonate, Stearate, Sulfate, Sulfid, Valerate; Biological Products—Namely, the Following: Antitoxins, Serums, Bacterial Vaccins; Smallpox-Virus, Antirabic Vaccin, Leucocyte Extract, Veterinary Products, Ophthalmic Mallein, Mallein Solution. The Above-Mentioned Producas May be in Any One or Another of the Following forms: Ampuls, Crude Drugs, Crystals, Elixirs, Extracts, Gases, Liquids, Lozenges, Mixtures, Ointments, Powders, Serums, Solids, Solutions, Spirits, Syrups, Tablets, Pills, Tinctures, Troches, and Vaccins.

Claims use since Apr. 22, 1919.

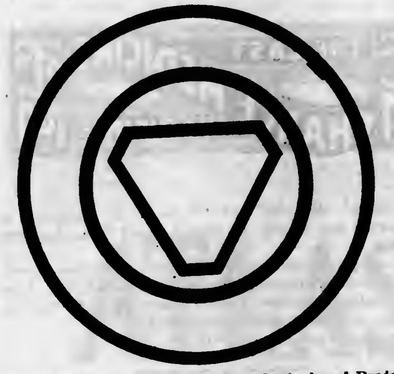
Ser. No. 130,059. (CLASS 39. CLOTHING.) PENMANS LIMITED, Paris, Ontario, Canada. Filed Mar. 22, 1920.



Particular description of goods.—Men's, Ladies', and Children's Knitted Underwear, Hosiery; Sweater and Jersey Coats.

Claims use since Mar. 25, 1903.

Ser. No. 131,252. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) BAUSCH & LOMB OPTICAL CO., Rochester, N. Y. Filed Apr. 17, 1920.



Particular description of goods.—Optical and Projection Lenses, Mangin Mirrors, Magnifying-Glasses, Optical Prisms, Searchlight-Mirrors, Condensers, (Optical;) Lens-Barrels, Lens-Mounts, Microscopes and Parts and Repairs Therefor, Microscope-Micrometers, Microtomes, Range-Finders, Field-Glasses, Opera-Glasses, Telescopes, Transits, Levels, Sextants, Projection Apparatus Consisting of Stereopticons, Magic Lanterns and Screens and Parts and Repairs Therefor, Transit-Micrometers, Photographic Ray-Filters, Photographic Shutters, Photomicrographic Cameras, Alidades and Theodolites, Gun Sights, Centrifugal Machines or Centrifuges Used for Scientific Analysis and Laboratory-Incubators.

Claims use since Jan. 9, 1909.

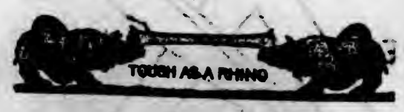
Ser. No. 131,840. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED BELT MANUFACTURING COMPANY, St. Louis, Mo. Filed Apr. 29, 1920.

ROYAL STAG

Particular description of goods.—Leather Belting.

Claims use since Apr. 23, 1919.

Ser. No. 131,860. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CUPPLES COMPANY MANUFACTURERS, St. Louis, Mo. Filed Apr. 30, 1920.



No claim being made to the words "Tough as a Rhino" and to the tubes and tires apart from the mark shown in the drawing.

Particular description of goods.—Rubber Tires and Tubes.

Claims use since on or about Sept. 25, 1916.

Ser. No. 132,533. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CUMBERLAND F. JONES, Chicago, Ill. Filed May 17, 1920.



The words "Medicine" and "Trade Mark" appearing on the drawing are hereby disclaimed apart from the mark as shown.

Particular description of goods.—For Medicine—to wit, Blood Medicine, Kidney Medicine, Cough Medicine, Pain-Killer, Bladder Medicine, Female Tonic, Laxative for Constipation, Asthma Medicine, Dyspepsia.

Claims use since Jan. 1, 1917.

Ser. No. 133,759. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALTER M. LEVY, New York, N. Y. Filed June 15, 1920.

VA-KNIT-IE

Consisting of the word "Va-Knit-Ie."

Particular description of goods.—Jersey Cloth in the Piece.

Claims use since May 25, 1920.

Ser. No. 133,759. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) LINDON W. BATES, Mount Lebanon, N. Y. Filed June 16, 1920.

COLLOIDAL

Particular description of goods.—A Stable Mobile Fuel Comprising an Admixture of Liquid Hydrocarbon and Pulverized Solid Carbonaceous Substances.

Claims use since Sept. 25, 1919.

Ser. No. 133,830. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LAMBORN & CO., New York, N. Y. Filed June 17, 1920.



Particular description of goods.—Belting Made from Canvas, Treated Canvas, or Leather.

Claims use since December, 1918.

Ser. No. 134,113. (CLASS 43. THREAD AND YARN.) CARAVEL COMPANY, INC., New York, N. Y. Filed June 24, 1920.



Particular description of goods.—Cotton, Wool, Linen, Silk, Artificial Silk, Ramie, Vegetable, and Fiber Thread, Spool-Thread, Yarn, Crochet and Knitting Thread, Floss, Skein-Yarn, Mercerized or Otherwise Processed Yarn, and Textile Thread.

Claims use since about June 8, 1918.

Ser. No. 134,291. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) MARCUS PEYTON ANDREWS, Richmond, Va. Filed June 28, 1920.

A. S. B.

Particular description of goods.—Brooms Specifically Adapted for Applying Stucco.

Claims use since June 8, 1920.

Ser. No. 134,762. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TURNER MANUFACTURING CO., Port Washington, Wis. Filed July 9, 1920. Under ten-year proviso.

Simplicity

Particular description of goods.—Internal-Combustion Engines.

Claims use since first part of August, 1889.

Ser. No. 134,876. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BASTIAN-MORLEY CO., La Porte, Ind. Filed July 13, 1920.

THE ROYAL

Particular description of goods.—Gas Water-Heaters.

Claims use since Oct. 8, 1915.

Ser. No. 134,895. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HAYWOOD TIRE & EQUIPMENT COMPANY, Marion, Ind. Filed July 13, 1920.

TIRE SURGERY

Particular description of goods.—Tire-Repair Equipment, Consisting of Retreading-Molds, Sectional Repair-Molds, Relining-Molds, Side-Wall Molds, Tube-Repairing Molds, Clamps.

Claims use since August, 1918.

Ser. No. 135,384. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) SUPERIOR LAMP MFG. CO., New York, N. Y. Filed July 24, 1920.



Exclusive right to the use of the word "Products" is hereby disclaimed.

Particular description of goods.—Electric Lamps, Battery-Boxes, Electrically-Operated Warning-Signals and Horns, and Electrical Searchlights and Spotlights.

Claims use since Nov. 7, 1919.

Ser. No. 136,366. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EASTERBROOK ALLCARD & CO. LIMITED, Sheffield, England. Filed Aug. 23, 1920.



Particular description of goods.—Twist-Drills for Use in Machines; Milling-Cutters; Shear-Blades; Reamers; Vises; Screwing Stocks, Taps, and Dies; Files; Saws; Cold-Chisels; Tool-Bits; Die-Nuts; Bitstock-Drills; Spanners and Spanner-Wrenches; Pipe-Wrenches; Tube-Expanders; Twist-Drills for Use in Ratchets; Ratchet Braces and Bits and Drills for Use in Ratchet-Braces; Rail-Benders; Hammers.

Claims use since July 27, 1917.

Ser. No. 136,468. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARLO O. FAUDA, San Francisco, Calif. Filed Aug. 25, 1920.



The words, "Medicinal Specialties" and "Technical & Pharmaceutical Chemist" are disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Preparations for the Treatment of Coughs; Saline Salts, Consisting of a Saline Concentration in a Crystalline Form for Use as a Laxative; Cod-Liver-Oil Preparations; Liniments for External Use in the Treatment of Burns, Bruises, Cuts, Scalds, and the Like; Iron Tonics; Corn and Wart Remedies; Preparations for the Treatment of Colds, Bronchial and Pulmonary Affections, Worm Remedies, and Intestinal Antiseptics.

Claims use since Apr. 3, 1920.

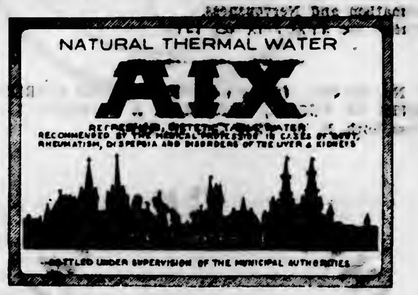
Ser. No. 136,926. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ATLAS MFG. CO., Los Angeles, Calif. Filed Sept. 8, 1920.

ATLAS

Particular description of goods.—Water-Circulating Pumps for Internal-Combustion Engines.

Claims use since on or about July 1, 1916.

Ser. No. 137,060. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) AACHENER THERMALWASSER, KAISERBRUNNEN AKTIENGESELLSCHAFT, Aachen, Germany. Filed Sept. 11, 1920.

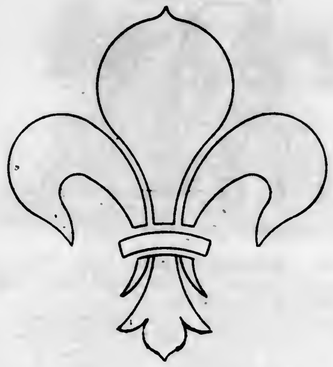


The lining in the borders to letters and design being for shading only, no claim being made to the exclusive use of any of the words excepting the word "Aix" apart from the mark shown in the drawing.

Particular description of goods.—Natural Aachener Thermal Water for Table and Hygienic Use.

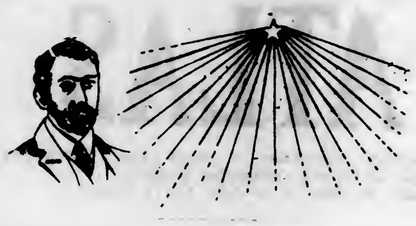
Claims use since June 5, 1909.

Ser. No. 137,286. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THORVALD G. LAURITSEN, Lynn, Mass. Filed Sept. 17, 1920.



Particular description of goods.—Flavor Used in Browning Any Food, such as Gravy, Soup, or the Like.
Claims use since Aug. 3, 1920.

Ser. No. 137,288. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REUBEN H. MACDONALD, Binghamton, N. Y. Filed Sept. 17, 1920.



The picture being a bust portrait of the applicant.
Particular description of goods.—A Remedy for Stomach, Kidney, Liver, Bladder, and Blood Troubles and Rheumatism and Nervousness.
Claims use since June 30, 1920.

Ser. No. 138,258. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KOELLISCH & FORTMANN, INC., New York, N. Y. Filed Oct. 13, 1920.

WHITE CRYSTAL

Particular description of goods.—Pickled, Dried, Salted, Smoked, and Canned Fish.
Claims use since 1915.

Ser. No. 138,320. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JINSHICHI KATO, Kyoto, Japan. Filed Oct. 15, 1920.

MAGNESIN

Particular description of goods.—Prepared Medicine—vis., Injection, Pills, Liquid Medicines, Powdered Medicines, Tablets, Plasters, and Suppositories for the Treatment of Hemorrhoids and Its Complications—Namely, Prolapsus and Fissures, Angioma, Varix, and Inflammation of the Nose.
Claims use since November, 1919.

Ser. No. 138,480. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PACIFIC ALUMINUM COMPANY, Fresno, Calif. Filed Oct. 19, 1920.

"LUSTRO"

Particular description of goods.—Aluminum Cooking Utensils Consisting of Teakettles, Saucepans, Rice-Cookers, Covered Kettles, Preserving Kettles, Pie-Plates, Pudding-Pans, Muffin-Pans, Skillets, Griddles.
Claims use since Aug. 1, 1920.

Ser. No. 138,693. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUGAR PRODUCTS CO., New York, N. Y. Filed Oct. 22, 1920.

Oldtyme
OPEN KETTLE
MOLASSES

No claim being made to the exclusive use of the words "Oldtyme Open Kettle Molasses."
Particular description of goods.—Molasses.
Claims use since Oct. 1, 1920.

Ser. No. 138,752. (CLASS 17. TOBACCO PRODUCTS.) HENRY CLAY AND BOCK & CO. LTD., New York, N. Y. Filed Oct. 25, 1920.

LA ESPAÑOLA
FUEYO Y CA
HABANA

No claim is made to the word "Habana" apart from the mark shown in the drawing.
Particular description of goods.—Cigars.
Claims use since 1843.

Ser. No. 139,081. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOSEPHINE CHOCOLATES LIMITED, London, England. Filed Nov. 2, 1920.

JOSEPHINE

Particular description of goods.—Chocolate.
Claims use since May 31, 1918.

Ser. No. 139,286. (CLASS 39. CLOTHING.) KAHN TAILORING COMPANY, Indianapolis, Ind. Filed Nov. 6, 1920.

The Kind of Clothes
KAHN
MADE TO MEASURE
CLOTHES
Gentlemen Wear

Applicant disclaims the exclusive right to the use of the phrase "Made to Measure" and the word "Clothes" apart from the mark shown on the drawing. Applicant also disclaims the exclusive right of the phrase "The Kind of Clothes Gentlemen Wear" under the act of 1905 apart from the mark shown in the drawing without, however, surrendering any right thereto which may be applicant's under the provisions of the act of Mar. 19, 1920.
Particular description of goods.—Men's Clothes Comprising Coats, Vests, and Trousers.
Claims use since Aug. 1, 1916.

Ser. No. 139,777. (CLASS 43. THREAD AND YARN.) ABRAHAM HYMES, New York, N. Y. Filed Nov. 17, 1920.

Y-D-C

Particular description of goods.—Yarns.
Claims use since October, 1920.

Ser. No. 139,973. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IROKESE TRADING CORPORATION, New York, N. Y. Filed Nov. 22, 1920.



Particular description of goods.—Rubber, Composition, Textile, Celluloid, Wooden, Paper, and Metal Toys—to wit, Horns, Trumpets, Tops, Rattles, Skates, Marbles, Carts, Animals, Boxed Sets of Toy Building-Blocks, Toy Implements for Use in Toy Building Construction, Toy Forms for Use in Toy Building Construction; Toy Building Materials, Such as Small Bags of Cement and the Like, and Boxed Sets of any Combination of Toy Building-Blocks, Toy Implements, Toy Forms, and Toy Materials for Use in Toy Building Construction; Dolls, Sleds, Rubber and Pyroxylin Balls, Floating Figures, Tenpins, Bowling Sets, Bagatelle, Children's Velocipedes, and Toy Coaster-Wagons.
Claims use since Nov. 11, 1920.

Ser. No. 140,218. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A/S Trondhjem Canning and Export Co., Buran, Trondhjem, Norway. Filed Nov. 26, 1920.



No claim is made for the word "Trondhjem" apart from the mark shown.

Particular description of goods.—Canned Fish.

Claims use since July, 1916.

Ser. No. 140,241. (CLASS 47. WINES.) Alsace Lorraine Development and Trading Company Limited, London, England. Filed Nov. 27, 1920.



No claim being made to the exclusive use of the words "French Rhine Wine from Alsace," the picture being fanciful.

Particular description of goods.—Rhine Wine.

Claims use since March, 1920.

Ser. No. 140,381. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) Henry Bach, Akron, Ohio. Filed Dec. 13, 1920.



Particular description of goods.—Hair-Tonics, Massage-Creams, Shampoos, and Barbers' Medicated Waters.

Claims use since July 15, 1920.

Ser. No. 141,009. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Glasgow Meat Pie Company, Salt Lake City, Utah. Filed Dec. 13, 1920.



The applicant hereby disclaims the words "Meat Pies." Applicant hereby disclaims the use of the word "Glasgow" apart from the other features of the mark.

Particular description of goods.—Meat Pies.

Claims use since Nov. 1, 1920.

Ser. No. 141,046. (CLASS 17. TOBACCO PRODUCTS.) "Turmac" Turkish-Macedonian Tobacco Company, Arnhem, Netherlands. Filed Dec. 13, 1920.

LA QUINTESSENCE DE L'ORIENT

Particular description of goods.—Leaf Tobacco, Smoking and Chewing Tobacco, Plug Tobacco, Tobacco for Snuffing, Cigarettes, Cigars, Cheroots, and Cigar-Binders.

Claims use since July 1, 1920.

Ser. No. 141,117. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Kenyon & Knap Limited, Rochdale, England. Filed Dec. 16, 1920.

THE MEDICO

Particular description of goods.—Flannel, (in the Piece,) Woollen Cloths, (in the Piece,) Hair Cloths and Hair Fabrics, (in the Piece,) and Wool, Worsted, or Hair Cloth, (in the Piece.)

Claims use since Sept. 26, 1911.

Ser. No. 141,128. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Pearl Coffee Company, Akron, Ohio. Filed Dec. 15, 1920.



We disclaim the use of the word "Brand," as part of the trade-mark sought to be registered.

Particular description of goods.—Coffee.

Claims use since on or about Jan. 1, 1915.

Ser. No. 141,648. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Orlando Citrus Growers Association, Orlando, Fla. Filed Dec. 29, 1920.



The lining on the drawing merely expressing shading.

Particular description of goods.—Fresh Citrus Fruits—viz., Oranges, Grapefruit, and Tangerines.

Claims use since Nov. 5, 1920.

Ser. No. 141,675. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) W. Jay Ennisson, New York, N. Y. Filed Dec. 30, 1920.

KID-DAD

Particular description of goods.—Parlor Baseball Games.

Claims use since March, 1920.

Ser. No. 141,691. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Riessner, Chocolate Co., San Francisco, Calif. Filed Dec. 30, 1920.



Particular description of goods.—Chocolate Candies.

Claims use since May 24, 1920.

Ser. No. 141,703. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Thomas-Body Company, San Francisco, Calif. Filed Dec. 30, 1920.



Particular description of goods.—Canned Fruits and Vegetables.

Claims use since May 15, 1920.

Ser. No. 141,811. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) The Sky Roll Company, Fort Wayne, Ind. Filed Jan. 3, 1921.

SKY-ROLL

Particular description of goods.—Perforated-Disk-Throwing Games.

Claims use since June, 1920.

Ser. No. 141,847. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Vincennes Candy Co., Inc., Vincennes, Ind. Filed Jan. 4, 1921.



Particular description of goods.—Chocolate Creams.

Claims use since Nov. 8, 1920.

Ser. No. 141,896. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Jan. 6, 1921.

COM-A-LONG

Particular description of goods.—Dolls.
Claims use since Dec. 22, 1920.

Ser. No. 142,033. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) M. C. ROSENFELD COMPANY, Boston, Mass. Filed Jan. 10, 1921.

OLD COLONIAL

Particular description of goods.—Malt Extract Used as an Ingredient of Food.
Claims use since Sept. 8, 1920.

Ser. No. 142,229. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y. Filed Jan. 13, 1921.



The Chinese characters appearing on the drawing represent the name of the applicant in Chinese. Applicant disclaims any exclusive right to the words "Colors" and "New York" apart from the mark shown on the drawing.
Particular description of goods.—Dyestuffs, Certified Food Colors and Intermediates.
Claims use since May 7, 1920.

Ser. No. 142,447. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JAMES W. MACBOYLE, Chicago, Ill. Filed Jan. 19, 1921.

SHIMMIE

Particular description of goods.—Dolls.
Claims use since Oct. 1, 1919.

Ser. No. 142,490. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN F. HEJDA, Baltimore, Md. Filed Jan. 20, 1921.

Marlo
"FEEL IT HEAL"
SKIN CREAM

No claim being made to "Feel It Heal Skin Cream."
Particular description of goods.—Toilet Cream.
Claims use since Dec. 15, 1919.

Ser. No. 142,681. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. C. WHITE COMPANY, North Bennington, Vt. Filed Jan. 22, 1921.

LITTLE LADDIE

Particular description of goods.—Four-Wheeled Play-Wagons and Coasters for Children.
Claims use since Dec. 7, 1920.

Ser. No. 142,887. (CLASS 39. CLOTHING.) JOSEPH M. KLEIN, New York, N. Y. Filed Jan. 28, 1921.

KLEIN'S
KLASSY
KLOTHES

Consisting of the words "Klein's Klassy Klothes."
Particular description of goods.—Men's and Boys' Wearing-Apparel in One, Two, and Three Piece Garments—viz., Men's Suits Consisting of Coat, Vest, and Trousers; Men's Overcoats and Spring-Coats, (Top-Coats;) Boys' Suits Consisting of Coat and Trousers; Trousers for Men and Boys.
Claims use since October, 1905.

Ser. No. 143,048. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O. A. HARLAN & Co., San Jose, Calif. Filed Feb. 1, 1921.

STANFORD BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Dried Fruits and Canned Fruits.
Claims use since Sept. 15, 1918, on dried fruits; since January, 1920, on canned fruits.

Ser. No. 143,074. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WABASH BAKING POWDER COMPANY, Wabash, Ind. Filed Feb. 1, 1921.



Particular description of goods.—Coffee and Tea.
Claims use since Oct. 23, 1920.

Ser. No. 143,109. (CLASS 39. CLOTHING.) UNIVERSAL CHILDRENS DRESS CO. INC., New York, N. Y. Filed Feb. 2, 1921.

Peggy Bluma

Consisting of the words "Peggy Bluma."
Particular description of goods.—Infants' and Children's Colored Wash-Dresses.
Claims use since Jan. 1, 1921.

Ser. No. 143,140. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PAGE & SHAW, INC., Cambridge, Mass. Filed Feb. 3, 1921.



Particular description of goods.—Chocolate, Cocoa-Powder, and Cocoa-Butter.
Claims use since Apr. 15, 1895.

Ser. No. 143,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN HENRY VAN WINKLE, East Orange, N. J. Filed Feb. 3, 1921.



Particular description of goods.—Teas, Coffees, Food-Flavoring Extracts, Spices.
Claims use since July, 1920.

Ser. No. 143,289. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MILLEN CANDY CO., INC., Utica, N. Y. Filed Feb. 7, 1921.

Koko-Nuggett

Particular description of goods.—Cocoanut Candy.
Claims use since Dec. 13, 1919.

Ser. No. 143,306. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WAYNE PAPER GOODS COMPANY, Fort Wayne, Ind. Filed Feb. 7, 1921.

BARNYARD GOLF

Particular description of goods.—Indoor and Lawn Horseshoe Games.
Claims use since Aug. 1, 1920.

Ser. No. 143,677. (CLASS 39. CLOTHING.) BERT E. BRESEE, Herkimer, N. Y. Filed Feb. 17, 1921.

Nestletoe
TRADE MARK

The words "Trade Mark" are disclaimed apart from the mark shown.
Particular description of goods.—Felt Shoes and Slippers.
Claims use since Sept. 1, 1920.

Ser. No. 143,740. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BABBITT STEAM SPECIALTY CO., New Bedford, Mass. Filed Feb. 18, 1921.

Babbitt

Particular description of goods.—Sprocket-Valve Wheel-Rims and Chain-Guides.
Claims use since Mar. 3, 1919.

Ser. No. 143,744. (CLASS 43. THREAD AND YARN.) JOSEPH CONTESSA, New York, N. Y. Filed Feb. 18, 1921.

JAXCULA

No claim is made to the representation of the goods apart from the mark shown.
Particular description of goods.—Silk and Cotton Yarns.
Claims use since Jan. 17, 1921.

Ser. No. 143,757. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELAM G. HESS, Manheim, Pa. Filed Feb. 18, 1921.

Patrician BRAND Pecans

I disclaim the words "Brand" and "Pecans" apart from the other features of the mark shown on the drawing and make claim to the word "Patrician."
Particular description of goods.—Thin Shelled Pecan-Nuts.
Claims use since Dec. 6, 1920.

Ser. No. 143,816. (CLASS 39. CLOTHING.) MARION R. GRAY, Los Angeles, Calif. Filed Feb. 19, 1921.

Grayco

Particular description of goods.—Neck Ties and Scarfs, Soft Collars, Hosiery, Suspenders, Belts for Personal Wear, Garters, Pajamas; Dress, Negligée, and Work Shirts.
Claims use since Jan. 1, 1906.

Ser. No. 143,948. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PURE FOOD FACTORY "HANSA," Mamaroneck, N. Y. Filed Feb. 23, 1921.

HANSA

Particular description of goods.—Bouillon Cubes, Vegetable and Beef Extracts in Solid and Fluid Form, and Mayonnaise Salad-Dressing.
Claims use since May 20, 1916, on mayonnaise salad-dressing; since Mar. 24, 1916, on bouillon cubes; since Oct. 22, 1917, on vegetable and beef extracts.

Ser. No. 143,997. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POCAHONTAS CANDY CO., Washington, D. C. Filed Feb. 24, 1921.

HOMADE CANDY FRESH Every DAY

The words "Homade Candy Fresh Every Day" is disclaimed apart from the other features shown in the mark.
Particular description of goods.—Candies.
Claims use since February, 1921.

Ser. No. 144,105. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SHANKLIN MANUFACTURING COMPANY, Springfield, Ill. Filed Feb. 26, 1921.



Consists of the photograph of Frank Guy, Springfield, Ill. No claim is made to the representation of the goods apart from the mark shown on the drawing.
Particular description of goods.—Acetylene-Lamps.
Claims use since January, 1913.

Ser. No. 144,114. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) ALFRED F. VOY, Rockford, Ill. Filed Feb. 26, 1921.

TWO ONE

Particular description of goods.—Fishing-Tackle Case.
Claims use since July 15, 1920.

Ser. No. 144,168. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEO. WOLFF & CO., San Francisco, Calif. Filed Feb. 28, 1921.

VERDI OIL

Particular description of goods.—Olive-Oil.
Claims use since September, 1920.

Ser. No. 144,185. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HALCOMB STEEL COMPANY, Syracuse, N. Y. Filed Mar. 1, 1921.

L. C. T.

Particular description of goods.—Ferrous-Alloy Steels.
Claims use since Jan. 13, 1913.

Ser. No. 144,186. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HALCOMB STEEL COMPANY, Syracuse, N. Y. Filed Mar. 1, 1921.

SUPER-DREADNOUGHT

Particular description of goods.—Ferrous-Alloy Steels.
Claims use since June 24, 1919.

Ser. No. 144,187. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HALCOMB STEEL COMPANY, Syracuse, N. Y. Filed Mar. 1, 1921.

PYRO

Particular description of goods.—Ferrous-Alloy Steels.
Claims use since Dec. 31, 1917.

Ser. No. 144,188. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HALCOMB STEEL COMPANY, Syracuse, N. Y. Filed Mar. 1, 1921.

HALCO

Particular description of goods.—Ferrous-Alloy Steels.
Claims use since Sept. 16, 1913.

Ser. No. 144,253. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HARRY M. SNOW, Kalamazoo, Mich. Filed Mar. 2, 1921.



No claim being made to the words "Heats Immediately" and "Kalamazoo."
Particular description of goods.—Steam, Hot-Water, and Hot-Air Heaters and Furnaces Using Gas or Oil.
Claims use since Feb. 1, 1921.

Ser. No. 144,279. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM DONAHEY, Chicago, Ill. Filed Mar. 3, 1921.

TEENIE WEENIE

Particular description of goods.—Cut-Out Dolls.
Claims use since March, 1919.

Ser. No. 144,337. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HARRY A. KOENIG, Philadelphia, Pa. Filed Mar. 5, 1921.

RED DEVIL

Particular description of goods.—Fuel-Economizers—Namely, Air-Feeding Devices for Coal and Gas Stoves and Furnaces.
Claims use since on or about Dec. 3, 1920.

Ser. No. 144,354. (CLASS 39. CLOTHING.) WALTER M. STEPPACHER & BRO., INC., Philadelphia, Pa. Filed Mar. 5, 1921.

Emery JUNIOR

Particular description of goods.—Children's Clothing Made of Cotton, Silk, and Woolen Fabrics and Consisting of Collars, Dress-Shirts, Negligée Shirts, Blouses, Undershirts, Drawers Union-Suits, and Pajamas.
Claims use since Dec. 1, 1920.

Ser. No. 144,403. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. L. MATHEWS CANDY COMPANY, Wilmington, N. C. Filed Mar. 7, 1921.

HONEY MOON KISS

Particular description of goods.—Candy.
Claims use since Jan. 1, 1912.

Ser. No. 144,468. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT C. MALLORY, Brooklyn, N. Y. Filed Mar. 8, 1921. Under ten-year proviso.

None Genuine without this Trade Mark — Anderson's Marvelous WHITE-DROPS.

Particular description of goods.—A Remedy for Indigestion, Dyspepsia, Headache, Heartburn, Flatulency, Over Eating and Drinking, Acidity, Nausea, Hiccoughs, Water-Brash, Stomach and Gastric Disorders, Cramps, Colic, Dizziness, and Biliousness.
Claims use since Jan. 9, 1895.

Ser. No. 144,490. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CHARLES WILLIAM STORES, INC., Brooklyn, N. Y. Filed Mar. 8, 1921.

Mayflower

Particular description of goods.—Cream-Separators.
Claims use since Jan. 12, 1921.

Ser. No. 144,491. (CLASS 39. CLOTHING.) THE CHARLES WILLIAM STORES, INC., Brooklyn, N. Y. Filed Mar. 8, 1921.

KIDDYKINS

Particular description of goods.—Clothes for Small Boys—Namely, Wash-Suits, Rompers, Blouses, and Pants.
Claims use since Feb. 8, 1921.

Ser. No. 144,518. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ESTELLE B. FINLAYSON, Ossining, N. Y. Filed Mar. 9, 1921.

SEVEN SHADES

No claim is made to the words "Seven Shades" except in association with the other elements of the trade-mark.
Particular description of goods.—Face-Creams, Liquid Face-Powder, and Dry Face-Powders.
Claims use since Feb. 24, 1921.

Ser. No. 144,628. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MALT-A-MILK COMPANY OF AMERICA, Kansas City, Mo. Filed Mar. 11, 1921.

CHO-CHO

Particular description of goods.—Chocolate Malted Milk.
Claims use since Feb. 18, 1921.

Ser. No. 144,708. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE COLUMBUS MCKINNON CHAIN COMPANY, Columbus, Ohio. Filed Mar. 14, 1921.

INSWELL

Particular description of goods.—Chains.
Claims use since Feb. 1, 1921.

Ser. No. 144,768. (CLASS 46. FOODS AND INGREDIENTS OF GOODS.) HENRY C. FAUST, St. Louis, Mo. Filed Mar. 15, 1921.

KUTE KIDS

Particular description of goods.—Chewing-Gum.
Claims use since Oct. 1, 1920.

Ser. No. 144,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANKLIN PEANUT COMPANY, Franklin, Va. Filed Mar. 16, 1921.

ELK

Particular description of goods.—Peanuts in the Shell.
Claims use since July 1, 1904.

Ser. No. 144,823. (CLASS 39. CLOTHING.) CARDINAL MILLS, Chattanooga, Tenn. Filed Mar. 16, 1921.

CARDINAL MILLS

Particular description of goods.—Hosiery.
Claims use since Nov. 15, 1920.

Ser. No. 144,852. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOUIS DONNET, Nice, France. Filed Mar. 17, 1921.

PHOSCAFE

Consists of the word "Phoscafé."
Particular description of goods.—A Substitute for Coffee, the Base of Which is Oats and Phosphates.
Claims use since Oct. 18, 1920.

Ser. No. 145,020. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE F. HINRICHS, INC., New York, N. Y. Filed Mar. 21, 1921.

Natural

Particular description of goods.—Dressed Poultry.
Claims use since July 1, 1919.

Ser. No. 145,048. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNIVERSAL TOBACCO MACHINE CO., New York, N. Y. Filed Mar. 21, 1921.

UNIVERSAL

Particular description of goods.—Tobacco Working Machinery.
Claims use since Mar. 10, 1921.

Ser. No. 145,063. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. A. HAND SON CO., Moosic, Pa. Filed Mar. 22, 1921.

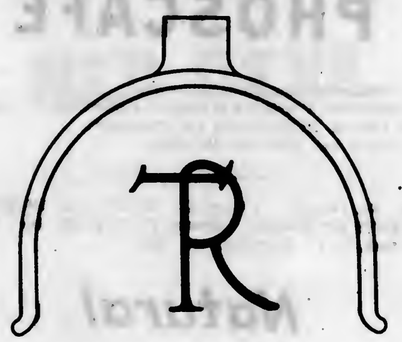
TRI-O OIL

No claim being made to the exclusive use of the word "Oil" apart from the mark as shown on the drawing.

Particular description of goods.—A Preparation for Killing Fleas and Lice.

Claims use since about July 1, 1919.

Ser. No. 145,081. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) REHN & TOUSLEY, Lima, Ohio. Filed Mar. 22, 1921.



Particular description of goods.—Nutcrackers Made of Metal.

Claims use since Feb. 19, 1921.

Ser. No. 145,136. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Mrs. ARTIE N. TAYLOR, St. Joseph, Mo. Filed Mar. 23, 1921.



No claim is made for the words "Springer Rye" apart from the mark shown in the drawing.

Particular description of goods.—An Ointment for Use in Treating the Scalp.

Claims use since Mar. 5, 1921.

Ser. No. 145,179. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS Co., St. Louis, Mo. Filed Mar. 24, 1921.

Temtor

Particular description of goods.—The Following Products Used for Food Purposes: Maple-Flavor Syrup, Sorghum with Corn-Syrup, Syrup, Maple-Syrup, Cherry, Blackberry, Strawberry, Raspberry, and Pineapple Preserves, Grape Jam, Grape Jelly, Apple-Butter, Honey, Mince-Meat, Molasses, Jams, Cane-Syrup, and Crystal-White Syrup.

Claims use since 1900.

Ser. No. 145,207. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed Mar. 25, 1921.



Particular description of goods.—Piece Goods of Silk, Wool, Linen, Cotton, and China-Grass.

Claims use since Nov. 10, 1920.

Ser. No. 145,230. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PURITAN ICE CREAM CO., Newark, N. J. Filed Mar. 25, 1921.



The picture being fanciful and no claim being made on the words "Pure" and "Sweet" apart from the mark shown on the drawing.

Particular description of goods.—Ice-Cream.

Claims use since January, 1921.

Ser. No. 145,268. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INGALLS BROTHERS, Manchester, N. H. Filed Mar. 26, 1921.

INGALLS'

Asthma

No claim being made to the word "Asthma."

Particular description of goods.—A Medicine for the Treatment of Asthma.

Claims use since 1845.

Ser. No. 145,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Mar. 28, 1921.

STICK-O-ROUND

Particular description of goods.—Candy.

Claims use since May 1, 1920.

Ser. No. 145,337. (CLASS 39. CLOTHING.) S. HALFF & CO., Los Angeles, Calif. Filed Mar. 28, 1921.



The girl shown in the drawing is fanciful. The representation of the goods is disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Men's, Women's, Children's, and Infants' Hosiery.

Claims use since Mar. 28, 1919.

Ser. No. 145,402. (CLASS 39. CLOTHING.) THE HANOVER MFG. CO., Baltimore, Md. Filed Mar. 29, 1921.



ANNA MAY

Particular description of goods.—Children's, Misses', and Juniors' Dresses, Coats, Rompers, Bloomers, Blouses, Waists, Aprons, and Skirts.

Claims use since Feb. 14, 1921.

Ser. No. 145,446. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE F. W. FITCH COMPANY, Des Moines, Iowa. Filed Mar. 30, 1921.

Fitch's Pix

Particular description of goods.—Perfumes.

Claims use since 1903.

Ser. No. 145,535. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LESLIE STAFFORD, La Salle, Ill. Filed Mar. 31, 1921.



No claim being made to the exclusive use of the words "Inner Tube Repair Kit" aside from the mark shown.

Particular description of goods.—Inner-Tube-Repair Kits.

Claims use since Feb. 23, 1921.

Ser. No. 145,571. (CLASS 39. CLOTHING.) THE LIMA CORD SOLE & HEEL COMPANY, Lima, Ohio. Filed Apr. 1, 1921.

GRO CORD

No claim is made to the exclusive right to the use of the word "Cord" apart from the mark shown in the drawing.

Particular description of goods.—Soles and Heels Made or Formed of a Combination of Rubber and Fabric for Boots and Shoes.

Claims use since February, 1920.

Ser. No. 145,629. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH JANKOWSKI, Chicago, Ill. Filed Apr. 2, 1921.



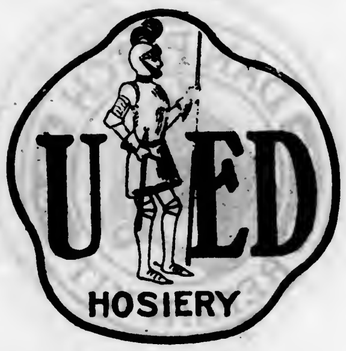
JANKOWSKI'S

The picture shown in the drawing is a facsimile of applicant's portrait.

Particular description of goods.—Salve for Cold in Head, Cold in Chest, Sore Throat, Catarrh, Headache, Cuts, Burns, Soreness, Lameness, Neuralgia, and Sore and Tired Feet.

Claims use since May, 1914.

Ser. No. 145,726. (CLASS 39. CLOTHING.) UNITED HOSIERY COMPANY, New York, N. Y. Filed Apr. 4, 1921.



No claim being made to the exclusive use of the word "Hosiery" apart from the mark shown in the drawing.

Particular description of goods.—Hosiery.

Claims use since on or about Mar. 31, 1921.

Ser. No. 145,736. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AMERICAN CHAIN COMPANY, INC., New York, N. Y., and Bridgeport, Conn. Filed Apr. 5, 1921.



Particular description of goods.—Base-Metal Chain, Base-Metal Chains, Base-Metal Loops for General Use, Base-Metal Rings for General Use, Staples, Base-Metal Hooks for General Use, Eyebolts, Bolts, Repair-Links, Cotter-Pins, Antiskid-Chains for Vehicle-Wheels, Tire-Repair Chains, Tread-Chains for Antiskid Devices for Vehicle-Wheels, Coupling-Pins, Cargo-Nets, Shackles, Swivels, Chain-Anchoring Devices, Bumper-Bars, Toggles, Clips, Tensioning Devices for Antiskid-Chains for Vehicles, Sash-Chain-Fastening Devices, Devices for Attaching Bumper-Bars to Motor-Cars, Chains Adapted to be Applied to Horses' Hoofs, Automobile-Jack Chains, Screw-Eyes.

Claims use since on or before Jan. 15, 1921.

Ser. No. 145,739. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COINOUM MANUFACTURING COMPANY, Philadelphia, Pa. Filed Apr. 5, 1921.

NUT-KING

Particular description of goods.—Vending-Machines.

Claims use since Jan. 15, 1921.

Ser. No. 145,774. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ENOZ CHEMICAL COMPANY, Chicago, Ill. Filed Apr. 6, 1921.

Feno

Consisting of the word "Feno."

Particular description of goods.—Insecticide.

Claims use since March, 1920.

Ser. No. 145,775. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ENOZ CHEMICAL COMPANY, Chicago, Ill. Filed Apr. 6, 1921.

Vico

Consisting of the word "Vico."

Particular description of goods.—Insecticide.

Claims use since May, 1911.

Ser. No. 145,781. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AUTOMOTIVE GEAR WORKS, Atlanta, Ga. Filed Apr. 6, 1921.

DOUBLE DIAMOND

Particular description of goods.—Automobile Gears and Shafting, Transmission-Gears, Differential Gears, Pinions, Rear-Axle Gears and Shafts.

Claims use since early in 1916.

Ser. No. 145,783. (CLASS 39. CLOTHING.) GOODMAN HOSIERY MILLS, Indianapolis, Ind. Filed Apr. 6, 1921.

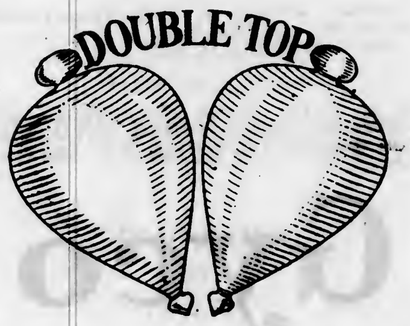
QUEEN-O-SILK HOSIERY

Consisting of the words "Queen-O-Silk Hosiery," no claim being made to the exclusive use of the word "Hosiery" apart from the mark as shown on the drawing.

Particular description of goods.—Hosiery.

Claims use since Mar. 16, 1921.

Ser. No. 145,795. (CLASS 39. CLOTHING.) REGENT KNITTING CORPORATION, Syracuse, N. Y. Filed Apr. 6, 1921.



Particular description of goods.—Men's and Boys' Knitted Caps.

Claims use since Feb. 28, 1921.

Ser. No. 145,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER LE ROY AECKERLE, Philadelphia, Pa. Filed Apr. 7, 1921.

Y-B-SIC

Particular description of goods.—Purgative.

Claims use since Mar. 23, 1921.

Ser. No. 145,917. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. L. PRESCOTT COMPANY, New York, N. Y. Filed Apr. 8, 1921

BULL DOG



Particular description of goods.—Laundry Blue.

Claims use since Apr. 1, 1921.

Ser. No. 145,931. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) AUTOMOTIVE MANUFACTURERS ASSOCIATES, Omaha, Nebr. Filed Apr. 9, 1921.

BADGER

Particular description of goods.—Bodies and Cabs for Truck and Passenger Automobiles.

Claims use since Oct. 9, 1919.

Ser. No. 145,982. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE WHITE HEAT PRODUCTS COMPANY, West Chester, Pa. Filed Apr. 9, 1921.

BATHITE

Particular description of goods.—Crude Abrasive Material, Crushed Abrasive Material, (Ungraded,) and Abrasive Grains.

Claims use since about Jan. 13, 1920.

Ser. No. 146,021. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HARRY A. LEE, Kansas City, Mo. Filed Apr. 11, 1921.

HaLee

Particular description of goods.—Crank-Pin Re-Turning or Truing Tools.
Claims use since April, 1920.

Ser. No. 146,026. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RODMAN MYERS, San Antonio, Tex. Filed Apr. 11, 1921.

Southern Beauty

Particular description of goods.—Face-Cream.
Claims use since April, 1913.

Ser. No. 146,039. (CLASS 39. CLOTHING.) SANITARY RUBBER NOVELTY MFG. CO., Chicago, Ill. Filed Apr. 11, 1921.

TIDY DIDIE

Consisting of the words "Tidy Didie."
Particular description of goods.—Rubber Pants for Infants' Wear.
Claims use since Feb. 1, 1921.

Ser. No. 146,085. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE W. D. ROBBINS, Pasadena, Calif. Filed Apr. 12, 1921.

MARION

Particular description of goods.—Ointment for the Treatment of Hemorrhoids.
Claims use since July 1, 1919.

Ser. No. 146,095. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE TOURAINE COMPANY, Boston, Mass. Filed Apr. 12, 1921.

Duane

The word "Duane" is the handwriting of Mr. Harry B. Duane, president of The Touraine Co., applicant herein.
Particular description of goods.—Chocolates.
Claims use since July 22, 1920.

Ser. No. 146,104. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE ACHILLES RUBBER AND TIRE CO. INC., Binghamton, N. Y. Filed Apr. 13, 1921.

Achilles

Particular description of goods.—Rubber Tire-Casings and Tubes.
Claims use since Jan. 1, 1918.

Ser. No. 146,107. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BU BONO, INC., New York, N. Y., and Toronto, Ontario, Canada. Filed Apr. 13, 1921.

BuBono

Particular description of goods.—Vermin-Exterminator—viz., Rat and Mouse Poison.
Claims use since Mar. 18, 1921.

Ser. No. 146,117. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEIGY COMPANY, INC., New York, N. Y. Filed Apr. 13, 1921.

Gyco

Particular description of goods.—Dyestuffs.
Claims use since Mar. 31, 1921.

Ser. No. 146,123. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE LITCHFIELD MANUFACTURING COMPANY, Waterloo, Iowa. Filed Apr. 13, 1921.

BABY GRAND

Particular description of goods.—Manure-Spreaders and Straw-Spreaders.
Claims use since on or about Mar. 25, 1921.

Ser. No. 146,129. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. NOONAN & SONS COMPANY, Boston, Mass. Filed Apr. 13, 1921.



Particular description of goods.—Hair-Tonic.
Claims use since on or about Sept. 1, 1913.

Ser. No. 146,141. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TILLIE ROSENBAUM, New York, N. Y. Filed Apr. 13, 1921.

FOUNTAIN OF YOUTH

Particular description of goods.—Face-Lotion.
Claims use since Mar. 21, 1921.

Ser. No. 146,169. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. FLUEGELMAN & CO. INC., New York, N. Y. Filed Apr. 14, 1921.

Ladyfaire

Particular description of goods.—Cotton Piece Goods.
Claims use since about June, 1919.

Ser. No. 146,201. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. N. BROWN & SON, Drill, Va. Filed Apr. 15, 1921.

J. N. Brown & Son

Being in the characteristic handwriting of John N. Brown, a member of the firm.
Particular description of goods.—A Medicine Used in the Treatment of Rheumatism, Swollen Joints, Sore Throat, Bruises, Neuralgia.
Claims use since Jan. 1, 1917.

Ser. No. 146,202. (CLASS 39. CLOTHING.) THE COUTER SHOE CO., Lynn, Mass. Filed Apr. 15, 1921.

FORMATIVE

Particular description of goods.—Shoes Made Wholly or in Part of Leather.
Claims use since Mar. 30, 1921.

Ser. No. 146,210. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE G. C. GOODE COMPANY, Cleveland, Ohio. Filed Apr. 15, 1921.

SUPERSPEED

Particular description of goods.—Various Cutting-Tools, Particularly Milling-Cutters, Lathe-Bits, Drills, and Reamers Made of High-Speed Steel.
Claims use since Oct. 1, 1920.

Ser. No. 146,221. (CLASS 39. CLOTHING.) R. H. MACY & CO., INC., New York, N. Y. Filed Apr. 15, 1921.

HAPPY HOUR

Particular description of goods.—Aprons.
Claims use since Mar. 26, 1921.

Ser. No. 146,223. (CLASS 39. CLOTHING.) MAY EVELYN HAT CO., New York, N. Y. Filed Apr. 15, 1921.

MAY EVELYN

Particular description of goods.—Hats for Girls.
Claims use since Feb. 24, 1921.

Ser. No. 146,235. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LINCOLN L. REILLY, Foxboro, Mass. Filed Apr. 15, 1921.

FAM-O

Particular description of goods.—Liquid Compound for Eliminating Carbon and Increasing Power in Gas-Engines.
Claims use since July, 1920.

Ser. No. 146,256. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DYNAMIC CHEMICAL CO., Buffalo, N. Y. Filed Apr. 16, 1921.

SHURFLO

Particular description of goods.—Solvents for Waste and Sewer Pipes.
Claims use since Sept. 20, 1919.

Ser. No. 146,274. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY, New York, N. Y. Filed Apr. 16, 1921.

Fractol

Particular description of goods.—Petroleum Ether.
Claims use since Mar. 30, 1921.

Ser. No. 146,299. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DIAMOND AUTO PARTS CORPORATION, Brooklyn, N. Y. Filed Apr. 18, 1921.

DIAMOND

Particular description of goods.—Automobile-Jacks.
Claims use since Jan. 1, 1921.

Ser. No. 146,302. (CLASS 39. CLOTHING.) EDMONDS SHOE COMPANY, Milwaukee, Wis. Filed Apr. 18, 1921.

HARRY

Particular description of goods.—Leather Shoes.
Claims use since Jan. 11, 1921.

Ser. No. 146,303. (CLASS 39. CLOTHING.) EDMONDS SHOE COMPANY, Milwaukee, Wis. Filed Apr. 18, 1921.

TOM

Particular description of goods.—Leather Shoes.
Claims use since Jan. 11, 1921.

Ser. No. 146,304. (CLASS 39. CLOTHING.) EDMONDS SHOE COMPANY, Milwaukee, Wis. Filed Apr. 18, 1921.

DICK

Particular description of goods.—Leather Shoes.
Claims use since Jan. 11, 1921.

Ser. No. 146,319. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., New York, N. Y. Filed Apr. 18, 1921.

Kijja

Particular description of goods.—Face-Lotions.
Claims use since Mar. 2, 1921.

Ser. No. 146,326. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUKE P. MCGUIRE, Baltimore, Md. Filed Apr. 18, 1921.

DESTROYER

Particular description of goods.—Insect-Exterminator.
Claims use since Feb. 2, 1921.

Ser. No. 146,328. (CLASS 39. CLOTHING.) OUTING SHOE COMPANY, Boston, Mass. Filed Apr. 18, 1921.

Meadow-Brook

Particular description of goods.—Cloth Shoes and Slippers.
Claims use since Apr. 8, 1921.

Ser. No. 146,341. (CLASS 39. CLOTHING.) TOWLE & SURRIDGE, Lynn, Mass. Filed Apr. 18, 1921.

THORO-SHOD

Particular description of goods.—Infants' and Children's Boots and Shoes Made Wholly or in Part of Leather and Cloth.
Claims use since Jan. 1, 1921.

Ser. No. 146,344. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ERNEST M. WHITE, Los Angeles, Calif. Filed Apr. 18, 1921.

PERFECTOR

Particular description of goods.—Lubricant-Deflecting Devices for Use in Connection with Internal-Combustion Engines.
Claims use since Apr. 5, 1918.

Ser. No. 146,354. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

200

Particular description of goods.—Powder and Rouge Compacts.
Claims use since June 1, 1916.

Ser. No. 146,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

300

Particular description of goods.—Powder and Rouge Compacts.
Claims use since June 1, 1916.

Ser. No. 146,358. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

400

Particular description of goods.—Powder and Rouge Compacts.
Claims use since June 1, 1916.

Ser. No. 146,360. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

500

Particular description of goods.—Powder and Rouge Compacts.
Claims use since June 1, 1916.

Ser. No. 146,362. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

600

The drawing is lined to indicate shading only.
Particular description of goods.—Powder and Rouge Compacts.
Claims use since June 1, 1916.

Ser. No. 146,421. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. R. ARNOLD & CO., New York, N. Y. Filed Apr. 20, 1921.

DORINDOR

Particular description of goods.—Compact Powder and Rouge.
Claims use since Mar. 9, 1921.

Ser. No. 146,429. (CLASS 39. CLOTHING.) GOLDBERG & ROSENBLATT, New York, N. Y. Filed Apr. 20, 1921.

MIGNONETTE

Particular description of goods.—Waists, Overblouses, Sport-Coats, and Skirts.
Claims use since Mar. 15, 1921.

Ser. No. 146,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ELIZA A. ROBINSON, Fort Wayne, Ind. Filed Apr. 20, 1921.

Mrs. Eliza A. Robinson

Particular description of goods.—Medicine for Coughs.
Claims use since Aug. 19, 1920.

Ser. No. 146,681. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ACME SHEAR COMPANY, Bridgeport, Conn. Filed Apr. 25, 1921.

"THE LITTLE FAIRY"

Particular description of goods.—Scissors and Shears.
Claims use since on or about Mar. 3, 1921.

Ser. No. 146,771. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Filed Apr. 26, 1921.

LITTLE DAVID

Particular description of goods.—Pneumatic Hammers, Pneumatic Drills, Pneumatic Saws, Pneumatic Motors, Pneumatic Sand-Rammers, Riveting-Hammers, Chipping-Hammers, Scaling-Hammers, Calking-Hammers, Calking-Machines, Coal-Picks, Core-Breakers, Rivet-Holders-On, Jam-Riveters, Riveting-Hammer Handles, Fluid-Operated Rotary Drills, Fluid-Operated Grinders, Close-Quarter Drills, Fluid-Operated Wood-Boring Machines, Drift-Bolt Drivers, Grease-Guns, Fluid-Operated Motor-Hoists, and Component Parts of and Repair Parts for All of Said Devices.
Claims use since Apr. 7, 1911.

Ser. No. 146,851. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EMIL SCHWARZ, Chicago, Ill. Filed Apr. 27, 1921.

"ALL-IN-ONE"

Particular description of goods.—Wrenches.
Claims use since Mar. 8, 1921.

Ser. No. 146,858. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN PIANO COMPANY, Jersey City, N. J., and New York, N. Y. Filed Apr. 28, 1921.

Chickering

Under section 9, act of March 19, 1920.
Particular description of goods.—Musical Instruments, Particularly Pianos, Player-Pianos, and Parts Thereof.
Claims use since 1823.

Ser. No. 146,859. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) AMERICAN PIANO COMPANY, Jersey City, N. J., and New York, N. Y. Filed Apr. 28, 1921.

Knabe

Under section 9 of act of Mar. 19, 1920.
Particular description of goods.—Musical Instruments, Particularly Pianos, Player-Pianos, and Parts Thereof.
Claims use since about 1838.

Ser. No. 146,883. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Transmission-Disks, Grips, Mallets Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,884. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Vehicle-Tires, Reliners, Outside Tire-Sleeves, Repair-Patches, Packing, Rim-Filler Strips, Inner Tubes, Inside Tire-Sleeves, Repair Fabrics, Hose and Tubing, Belts and Belting, Brake-Lining, Valve-Bases, Flaps, All Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,890. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Transmission-Disks, Grips, Mallets Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,891. (CLASS 35. (BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Vehicle-Tires, Reliners, Outside Tire-Sleeves, Repair-Patches, Packing, Rim-Filler Strips, Inner Tubes, Inside Tire-Sleeves, Repair Fabrics, Hose and Tubing, Belts and Belting, Brake-Lining, Valve-Bases, Flaps, All Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,897. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Transmission-Disks, Grips, Mallets Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,898. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Vehicle-Tires, Reliners, Outside Tire-Sleeves, Repair-Patches, Packing, Rim-Filler Strips, Inner Tubes, Inside Tire-Sleeves, Repair Fabrics, Hose and Tubing, Belts and Belting, Brake-Lining, Valve-Bases, Flaps, All Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,961. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) RALEIGH SMOKELESS FUEL COMPANY, Beckley, W. Va. Filed Apr. 29, 1921.

RALECO

Particular description of goods.—Bituminous Coal.
Claims use since Apr. 25, 1921.

Ser. No. 147,083. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEO. H. ADAMS CO., Waltham, Mass., and Hill, N. H. Filed May 2, 1921.



Consisting in a golden or copper colored area applied to a latch-needle, and the butt of the needle is lined on the drawing to represent such color. The representation of a latch-needle forms no part of the trade-mark.
Particular description of goods.—Latch-Needles for Knitting-Machines.
Claims use since on or about Dec. 31, 1921.

Ser. No. 147,226. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) YORK MFG. CO., Saco, Me., and Boston, Mass. Filed May 4, 1921.

Yovex

The word "Yovex" is stamped in black, outlined in gold—that is the letters are filled in in black and outlined in gold or in gold and blue.
Particular description of goods.—Gingham in the Piece.
Claims use since Jan. 1, 1921.

Ser. No. 147,242. (CLASS 43. THREAD AND YARN.) HOME WOOLEN MILLS, Eaton Rapids, Mich. Filed May 5, 1921.

"HOMEWOOL"

Particular description of goods.—Yarns.
Claims use since Oct. 14, 1920.

Ser. No. 147,522. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LIGHTNING SALES CORPORATION, New York, N. Y. Filed May 10, 1921.

LIGHTNING

Particular description of goods.—Demountable Wheel-Rims.
Claims use since on or about May 1, 1919.

Ser. No. 147,612. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 12, 1921. Under ten-year proviso.

Sulphon Azurin

Particular description of goods.—Dyes and Dyestuffs.
Claims use since August, 1889.

Ser. No. 147,613. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 12, 1921. Under ten-year proviso.

Benzo Brown

Particular description of goods.—Dyes and Dyestuffs.
Claims use since January, 1888.

Ser. No. 147,614. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 12, 1921. Under ten-year proviso.

Benzo Black Blue

Particular description of goods.—Dyes and Dyestuffs.
Claims use since July, 1888.

Ser. No. 147,615. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 12, 1921. Under ten-year proviso.

Thiazole Yellow

Particular description of goods.—Dyes and Dyestuffs.
Claims use since November, 1889.

Ser. No. 147,616. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 12, 1921. Under ten-year proviso.

Benzo Grey

Particular description of goods.—Dyes and Dyestuffs.
Claims use since October, 1890.

Ser. No. 147,617. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 12, 1921. Under ten-year proviso.

Benzo Black

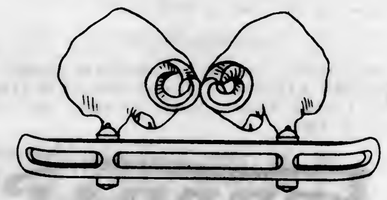
Particular description of goods.—Dyes and Dyestuffs.
Claims use since October, 1890.

Ser. No. 147,618. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRASSELLI CHEMICAL COMPANY, Cleveland, Ohio. Filed May 12, 1921. Under ten-year proviso.

Azofuchsin

Particular description of goods.—Dyes and Dyestuffs.
Claims use since December, 1890.

Ser. No. 147,641. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) RAMSPRING BUMPER CO., Chicago, Ill. Filed May 12, 1921.



The specific representation of the goods and the words "The Coils Absorb the Shock" being disclaimed apart from the trade-mark as shown.
Particular description of goods.—Automobile-Bumpers.
Claims use since Apr. 15, 1921.

Ser. No. 148,473. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. S. YOUNG & COMPANY, Hanover, Pa. Filed May 31, 1921.

RTX

Particular description of goods.—Tanning Extracts.
Claims use since on or about Aug. 10, 1920.

Ser. No. 148,474. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) J. S. YOUNG & COMPANY, Hanover, Pa. Filed May 31, 1921.

R T

Particular description of goods.—Tanning Extracts.
Claims use since on or about Jan. 8, 1921.

Ser. No. 148,512. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SETH OWEN, Mansfield, Wash. Filed June 1, 1921.



Consisting of my portrait.
Particular description of goods.—A Preparation for Treatment of Colic and Impaction in Horses.
Claims use since Feb. 15, 1921.

Ser. No. 148,675. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Bayonne, N. J., and New York, N. Y. Filed June 4, 1921.

Frutol

Particular description of goods.—A White Mineral Oil.
Claims use since May 23, 1921.

Ser. No. 148,936. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ALFRED C. GAUNT, Methuen, Mass. Filed June 10, 1921.

Travel-Tex

Particular description of goods.—Woolen and Worsted Cloth in Piece Goods for Men's, Women's, and Children's Wear.
Claims use since Sept. 10, 1920.

Ser. No. 149,001. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO. INC., New York, N. Y. Filed June 11, 1921.

SAMSONET

Particular description of goods.—Hair-Nets.
Claims use since Feb. 15, 1921.

Ser. No. 149,017. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. A. MIGEL INC., New York, N. Y. Filed June 11, 1921.

MAID-O-MIST

Particular description of goods.—Silk Goods in the Piece.
Claims use since Mar. 18, 1921.

Ser. No. 149,021. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE NATIONAL STEEL PRODUCTS COMPANY, Dayton, Ohio. Filed June 11, 1921.

SHOCKEZER

Particular description of goods.—Shock-Absorbers for Vehicles.
Claims use since June 1, 1921.

Ser. No. 149,115. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed June 14, 1921.

TACUNA

Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 1, 1917.

Ser. No. 149,405. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS C. KIEHLE, Baltimore, Md. Filed June 20, 1921.

PUTINGAS

Particular description of goods.—A Combustible Oil for Intensifying Liquid Fuel Used in Internal-Combustion Engines.
Claims use since on or about Apr. 1, 1921.

Ser. No. 149,407. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE KOLYNOS COMPANY, New Haven, Conn. Filed June 20, 1921.

KOLYNOS

Particular description of goods.—Tooth-Pastes, Antiseptic Solution, and Germicidal Disinfectant.
Claims use since Feb. 12, 1908, for tooth-paste; since Nov. 29, 1909, for antiseptic solution and germicidal disinfectant.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 2, 1921.

145,304. RIBBONS IN LENGTHS. H. ADLER & BRO., New York, N. Y.
Filed November 17, 1920. Serial No. 139,730. PUBLISHED MAY 3, 1921.

145,305. COFFEE. THE F. S. AINSA COMPANY, INC., El Paso, Tex.
Filed December 24, 1920. Serial No. 141,477. PUBLISHED APRIL 26, 1921.

145,306. MAGAZINES AND TRADE PUBLICATIONS PUBLISHED WEEKLY. ALDAN PUBLISHING COMPANY, INC., New York, N. Y.
Filed February 7, 1921. Serial No. 143,247. PUBLISHED MAY 3, 1921.

145,307. GROUND-CLAMP FOR ELECTRIC CONDUCTORS. ALLOY METAL STAMPING & SPECIALTY COMPANY, Philadelphia, Pa.
Filed March 1, 1921. Serial No. 144,171. PUBLISHED APRIL 26, 1921.

145,308. PHOTOGRAPHIC TYPEWRITERS. AMERICAN DESATYPE CO., New York, N. Y.
Filed January 6, 1921. Serial No. 141,891. PUBLISHED APRIL 26, 1921.

145,309. VEGETABLE AND EDIBLE OILS. AMERICAN NUT AND SEED OIL CORPORATION, New York, N. Y.
Filed January 22, 1921. Serial No. 142,575. PUBLISHED APRIL 26, 1921.

145,310. SMOKING AND CHEWING TOBACCO. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed September 19, 1919. Serial No. 122,874. PUBLISHED FEBRUARY 22, 1921.

145,311. AUTOMOBILE-TIRE TUBES. AMERICAN WHOLESALE CORPORATION, Baltimore and Cumberland, Md.
Filed January 5, 1920. Serial No. 126,787. PUBLISHED MAY 3, 1921.

145,312. WOOD, GAS, AND OIL STOVES AND RANGES. ANCHOR STOVE & RANGE CO., New Albany, Ind.
Filed January 28, 1921. Serial No. 142,867. PUBLISHED APRIL 26, 1921.

145,313. MONTHLY MAGAZINE AND CERTAIN NAMED PUBLICATIONS. ANCIENT AND MYSTICAL ORDER ROSAE CRUCIS, San Francisco, Calif.
Filed October 28, 1920. Serial No. 138,912. PUBLISHED MAY 3, 1921.

145,314. SOAP. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio.
Filed February 16, 1921. Serial No. 143,646. PUBLISHED APRIL 26, 1921.

145,315. CEREAL FOODS FOR INFANTS AND ADULTS. ANTOINETTE MALARD DE SERVAIS, Montreal, Quebec, Canada.
Filed March 25, 1920. Serial No. 130,161. PUBLISHED MAY 3, 1921.

145,316. SCREENS FOR USE WITH PICTURE-PROJECTING APPARATUS. THE ARGUS ENTERPRISES, INC., Cleveland, Ohio.
Filed November 15, 1920. Serial No. 139,661. PUBLISHED APRIL 26, 1921.

145,317. CHOCOLATES. D. AUERBACH & SONS, New York, N. Y.
Filed July 14, 1920. Serial No. 134,929. PUBLISHED NOVEMBER 2, 1920.

145,318. FOODSTUFFS—NAMELY, CAKE. BAER BAKING CO., Oakland and San Francisco, Calif.
Filed February 15, 1921. Serial No. 143,587. PUBLISHED APRIL 26, 1921.

145,319. WHEAT-FLOUR, BUCKWHEAT-FLOUR, RYE-FLOUR, GRAHAM, CORNMEAL, RYE-GRAHAM, AND CHOICE BRAN. O. A. BEAM & SON, Avon, N. Y.
Filed August 24, 1920. Serial No. 136,392. PUBLISHED MAY 3, 1921.

145,320. OLEOMARGARIN. BEATRICE CREAMERY COMPANY, Chicago, Ill., and Topeka, Kans.
Filed February 18, 1921. Serial No. 143,737. PUBLISHED APRIL 26, 1921.

145,321. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, CANNED MILK, AND WHEAT-FLOUR. BECH, VAN SICLEN & CO. INC., San Francisco, Calif.
Filed August 24, 1920. Serial No. 136,393. PUBLISHED APRIL 26, 1921.

145,322. METAL-POLISH. BELL PRODUCTS CO., Brooklyn, N. Y.
Filed February 8, 1921. Serial No. 143,315. PUBLISHED MAY 3, 1921.

145,323. CRACKERS, BISCUITS, AND CAKES, CANDY, CHOCOLATES, PEANUT-BARS, FIG-BARS, COCOA, AND CHOCOLATE. BISHOP & COMPANY, Los Angeles, Calif.
Filed November 11, 1920. Serial No. 139,506. PUBLISHED MAY 3, 1921.

145,324. CANNED SARDINES. BOOTH FISHERIES SARDINE COMPANY, Chicago, Ill.
Filed December 31, 1918. Serial No. 114,898. PUBLISHED JUNE 17, 1919.

145,325. OIL-CUPS AND GREASE-CUPS. BOWEN PRODUCTS CORPORATION, Auburn, N. Y.
Filed November 30, 1920. Serial No. 140,427. PUBLISHED APRIL 26, 1921.

145,326. POULTRY FOOD MADE FROM MEAT AND BONE SCRAPS. THE BROWN COMPANY INC., Philadelphia, Pa.
Filed February 18, 1921. Serial No. 143,734. PUBLISHED APRIL 26, 1921.

145,327. SHOES FOR BOYS AND GIRLS, MADE OF LEATHER AND CANVAS. BROWN SHOE COMPANY, INC., St. Louis, Mo.
Filed February 7, 1920. Serial No. 128,076. PUBLISHED APRIL 13, 1920.

145,328. DRAPERIES IN THE PIECE OR BOLT. BURNHAM-MUNGER-ROOT DRY GOODS COMPANY, Kansas City, Mo.
Filed February 7, 1921. Serial No. 143,249. PUBLISHED MAY 3, 1921.

145,329. BREAD. CABLE-DRAPER BAKING COMPANY, Detroit, Mich.
Filed February 5, 1921. Serial No. 143,204. PUBLISHED APRIL 26, 1921.

145,330. CANDY. BEAUFORD R. CAMP, San Francisco, Calif.
Filed June 12, 1920. Serial No. 133,609. PUBLISHED NOVEMBER 9, 1920.

145,331. SELF-RISING FLOUR. CAPE COUNTY MILLING COMPANY, Jackson, Mo.
Filed February 18, 1921. Serial No. 143,747. PUBLISHED APRIL 26, 1921.

145,332. COFFEE. CARDONA, MOREY AND CRAIG, New York, N. Y.
Filed January 25, 1921. Serial No. 142,746. PUBLISHED APRIL 26, 1921.

145,333. COMPLETELY-PRINTED TRANSPARENT MEAT-LABELS. CHEMICAL PAPER COMPANY, Washington, D. C.
Filed August 14, 1920. Serial No. 136,115. PUBLISHED MAY 3, 1921.

145,334. CERTAIN NAMED WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE. CHENEY BROTHERS, South Manchester, Conn.
Filed January 25, 1921. Serial No. 142,749. PUBLISHED APRIL 19, 1921.

145,335. ELECTRIC FLATIRONS. CHICAGO FLEXIBLE SHAFT COMPANY, Chicago, Ill.
Filed March 15, 1921. Serial No. 144,764. PUBLISHED APRIL 26, 1921.

145,336. WHEAT-FLOUR. THE CLYDE MILLING & ELEVATOR CO., Clyde, Kans.
Filed October 20, 1919. Serial No. 123,963. PUBLISHED APRIL 6, 1920.

145,337. LEATHER AND BALATA BELTINGS. HENRY F. COCKILL & SONS LIMITED, Whitcliffe, Cleckheaton, England.
Filed February 24, 1921. Serial No. 143,981. PUBLISHED APRIL 26, 1921.

145,338. COTTON AND SILK FABRIC IN THE PIECE AND STRIP FORM. COLUMBIA RIBBON & CARBON MFG. CO., New York, N. Y.
Filed December 23, 1920. Serial No. 141,452. PUBLISHED MAY 3, 1921.

145,339. ELECTRIC-LIGHTING FIXTURES. COMMERCIAL EXCELITE CO., INC., Baltimore, Md.
Filed January 25, 1921. Serial No. 142,747. PUBLISHED APRIL 26, 1921.

145,340. ELECTRIC COILS. COMMERCIAL RADIO CO. OF AMERICA, Providence, R. I.
Filed February 12, 1921. Serial No. 143,483. PUBLISHED APRIL 26, 1921.

145,341. ICE-CREAM CONES. CONE COMPANY OF AMERICA, New York, N. Y.
Filed November 1, 1920. Serial No. 139,023. PUBLISHED APRIL 5, 1921.

145,342. CERTAIN NAMED HARDWOOD DIMENSION-STOCK. J. ELWOOD COX MFG. CO., High Point, N. C.
Filed January 22, 1921. Serial No. 142,589. PUBLISHED MAY 3, 1921.

145,343. TIRE-COVERS. CRAWFORD MANUFACTURING CO., INC., Richmond, Va.
Filed February 21, 1921. Serial No. 143,852. PUBLISHED APRIL 26, 1921.

145,344. NON-ALCOHOLIC GINGER CORDIAL CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL. CYCO MEDICINE COMPANY, Chicago, Ill.
Filed November 23, 1920. Serial No. 140,020. PUBLISHED MAY 3, 1921.

145,345. CHOCOLATE-COATED CANDIES. DAVIDSON BROTHERS CO., Des Moines, Iowa.
Filed June 21, 1920. Serial No. 133,958. PUBLISHED MARCH 22, 1921.

145,346. CERTAIN AUTOMOTIVE TOOLS AND EQUIPMENT. DEARBORN EQUIPMENT CO., Kalamazoo, Mich.
Filed February 24, 1920. Serial No. 128,763. PUBLISHED APRIL 26, 1921.

145,347. TOYS IN THE NATURE OF PLANCHETTES. HERBERT E. DILL, Hingham, Mass.
Filed April 2, 1920. Serial No. 130,526. PUBLISHED JULY 27, 1920.

145,348. OLD-FASHIONED TAFFY-CANDY. DILLING & COMPANY, Indianapolis, Ind.
Filed January 11, 1921. Serial No. 142,059. PUBLISHED APRIL 26, 1921.

145,349. VEHICLE-WHEELS. DUODISK STEEL WHEEL CORPORATION, Los Angeles, Calif.
Filed January 31, 1921. Serial No. 142,962. PUBLISHED APRIL 26, 1921.

145,350. TURPENTINE. DURYEA MANUFACTURING CO., Bayonne, N. J.
Filed August 17, 1920. Serial No. 136,189. PUBLISHED APRIL 26, 1921.

145,351. AUTOMOBILE-BODIES. ECONOMY HOIST & BODY COMPANY, INC., New York, N. Y.
Filed December 11, 1920. Serial No. 140,932. PUBLISHED APRIL 26, 1921.

145,352. LINEN, COTTON, AND OTHER FABRIC BELTS. ENDLESS BELT CORPORATION, INC., New York, N. Y.
Filed November 28, 1919. Serial No. 125,375. PUBLISHED MAY 3, 1921.

145,353. FLAVORING COMPOUND FOR USE IN SYRUPS, CANDIES, CONFECTIONERY, AND BAKERY GOODS. ENG-SKELL COMPANY, INC., San Francisco, Calif.
Filed January 27, 1921. Serial No. 142,831. PUBLISHED APRIL 26, 1921.

145,354. STABILIZING OR SMOOTHING POWDER FOR ICE-CREAMS, SHERBETS, AND ICES. ENG-SKELL COMPANY, INC., San Francisco, Calif.
Filed January 27, 1921. Serial No. 142,834. PUBLISHED APRIL 26, 1921.

145,355. RUBBER-COATED-FABRIC INNER TIRES FOR RELINING PNEUMATIC-TIRE CASINGS. GEORGE W. ENO RUBBER COMPANY, Los Angeles, Calif.
Filed September 13, 1920. Serial No. 137,116. PUBLISHED APRIL 26, 1921.

145,356. RETREADS FOR ATTACHMENT TO THE OUTER SURFACES OF WORN PNEUMATIC-TIRE CASINGS. GEORGE W. ENO RUBBER COMPANY, Los Angeles, Calif.
Filed September 13, 1920. Serial No. 137,117. PUBLISHED APRIL 26, 1921.

145,357. CERTAIN PHOTOGRAPHIC MACHINES, CAMERAS, AND MOTION-PICTURE FILMS. ERBOGRAPH COMPANY, New York, N. Y.
Filed August 18, 1920. Serial No. 136,232. PUBLISHED APRIL 26, 1921.

145,358. CANDY. THE EUCLID CANDY COMPANY, Cleveland, Ohio.
Filed November 24, 1920. Serial No. 140,100. PUBLISHED MARCH 22, 1921.

145,359. TOAST. EXCELSIOR BAKING COMPANY, Minneapolis, Minn.
Filed December 15, 1919. Serial No. 126,014. PUBLISHED MAY 3, 1921.

145,360. CLEANING AND SCOURING PREPARATION FOR GLASS AND METAL, &C. FITZPATRICK BROS., Chicago, Ill.
Filed December 27, 1920. Serial No. 141,519. PUBLISHED APRIL 26, 1921.

145,361. GLASS LENS FOR HEADLIGHTS. FLEXO LENS PROTECTOR COMPANY, Camden, N. J.
Filed February 17, 1921. Serial No. 143,689. PUBLISHED APRIL 26, 1921.

145,362. MALT AND HOP SYRUP USED FOR FOOD PURPOSES. THE H. E. FREES COMPANY, Chicago, Ill.
Filed February 5, 1921. Serial No. 143,211. PUBLISHED MAY 3, 1921.

145,363. MACARONI. ALEXANDER GALLERANI COMPANY, Pittsburgh, Pa.
Filed January 22, 1921. Serial No. 142,616. PUBLISHED APRIL 26, 1921.

145,364. MACARONI. ALEXANDER GALLERANI COMPANY, Pittsburgh, Pa.
Filed January 22, 1921. Serial No. 142,617. PUBLISHED APRIL 26, 1921.

145,365. BOOKLETS, PUBLISHED MONTHLY, USED IN CONNECTION WITH SAVING SYSTEMS. A. S. J. GAMMON, Norfolk, Va.
Filed June 14, 1919. Serial No. 119,602. PUBLISHED MAY 3, 1921.

145,366. SALAD-OIL PRESSED FROM CORN. A. GASTUN & COMPANY INC., New York, N. Y.
Filed January 11, 1921. Serial No. 142,064. PUBLISHED APRIL 26, 1921.

145,367. MEDICINAL PREPARATIONS FOR TREATMENT OF RHEUMATISM, CATARRH, AND STOMACH TROUBLES. Dr. C. GEE WO, Portland, Oreg.
Filed October 5, 1920. Serial No. 137,929. PUBLISHED MAY 3, 1921.

145,368. COTTONSEED OILS FOR COOKING PURPOSES, AND SOLIDIFIED FATS FOR FOOD PURPOSES. GLOBE COTTON OIL MILLS, Los Angeles, Calif.
Filed October 5, 1920. Serial No. 137,938. PUBLISHED APRIL 5, 1921.

145,369. ICE-CREAM, WATER-ICES, AND SHERBETS. GLORIA ICE CREAM COMPANY, Stockton, Calif.
Filed August 4, 1920. Serial No. 135,784. PUBLISHED APRIL 26, 1921.

145,370. NON-ALCOHOLIC, NON-CEREAL, MALTLESS FRUIT BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. OF ALCOHOL, BY VOLUME, SOLD AS A SOFT DRINK. DAVID N. GOLDBERG, Chicago, Ill.
Filed January 20, 1920. Serial No. 127,366. PUBLISHED APRIL 20, 1920.

145,371. POWER-DRIVEN WATER-SUPPLY PUMPS. THE GOULDS MANUFACTURING COMPANY, Seneca Falls, N. Y.
Filed February 4, 1921. Serial No. 143,165. PUBLISHED MAY 3, 1921.

145,372. MOTION-PICTURE-PROJECTING MACHINES AND PARTS THEREOF. THE GRAPHOSCOPE COMPANY, Washington, D. C.
Filed July 14, 1919. Serial No. 120,657. PUBLISHED MAY 3, 1921.

145,373. SYRUPS FOR TABLE PURPOSES. GRAY-JUERGENS CO., Cincinnati, Ohio.
Filed December 26, 1918. Serial No. 114,820. PUBLISHED APRIL 26, 1921.

145,374. CERTAIN NAMED TOYS. FANNIE E. HUGHEY, Chicago, Ill.
Filed November 20, 1920. Serial No. 139,888. PUBLISHED APRIL 12, 1921.

145,375. CERTAIN ARTICLES OF CLOTHING. GUTHRIE & COMPANY LIMITED, Singapore, Straits Settlements, and London, England.
Filed November 14, 1919. Serial No. 124,889. PUBLISHED APRIL 19, 1921.

145,376. WHEAT-FLOUR. HANNIBAL MILLING CO., Hannibal, Mo.
Filed February 11, 1921. Serial No. 143,436. PUBLISHED APRIL 26, 1921.

145,377. CAMERA-LENSES. HANOVIA CHEMICAL AND MANUFACTURING COMPANY, Newark, N. J.
Filed January 22, 1921. Serial No. 142,619. PUBLISHED APRIL 26, 1921.

145,378. CANDY. HEADLEY CHOCOLATE CO., Baltimore, Md.
Filed November 6, 1920. Serial No. 139,276. PUBLISHED MARCH 29, 1921.

145,379. THERMOMETERS, HYDROMETERS, AND HYGROMETERS. ALFRED T. HESPE, New York, N. Y.
Filed October 7, 1920. Serial No. 138,076. PUBLISHED APRIL 26, 1921.

145,380. ROOFING-PAPER. C. B. HEWITT & BROTHERS, INC., New York, N. Y.
Filed January 26, 1921. Serial No. 142,790. PUBLISHED APRIL 26, 1921.

145,381. ELECTRICAL-MOTOR STARTERS AND CONTROLLERS. INDUSTRIAL CONTROLLER COMPANY, Milwaukee, Wis.
Filed March 14, 1921. Serial No. 144,723. PUBLISHED APRIL 26, 1921.

145,382. MALT BEVERAGE. INNER CIRCLE CORPORATION, Baltimore, Md., and New York, N. Y.
Filed December 6, 1920. Serial No. 140,653. PUBLISHED APRIL 26, 1921.

145,383. WHEAT-FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed February 14, 1921. Serial No. 143,556. PUBLISHED APRIL 26, 1921.

145,384. WHEAT-FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed February 14, 1921. Serial No. 143,557. PUBLISHED APRIL 26, 1921.

145,385. WHEAT-FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed February 14, 1921. Serial No. 143,558. PUBLISHED APRIL 26, 1921.

145,386. WHEAT-FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed February 14, 1921. Serial No. 143,559. PUBLISHED APRIL 26, 1921.

145,387. WHEAT-FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed February 14, 1921. Serial No. 143,561. PUBLISHED APRIL 26, 1921.

145,388. WHEAT-FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed February 14, 1921. Serial No. 143,562. PUBLISHED APRIL 26, 1921.

145,389. CERTAIN NAMED SERVICE-WAGONS, BUFFERS, BUMPERS, WHEELS, RACKS, GUARD-RAILS, AND FRAMES THEREFOR. JARVIS AND JARVIS, Palmer, Mass.
Filed December 3, 1920. Serial No. 140,565. PUBLISHED MAY 3, 1921.

145,390. CERTAIN VISES, CHUCKS, AND WORK-HOLDING FIXTURES FOR METAL-WORKING-MACHINE TOOLS. JAMES HENRY JERRIM, Bromsgrove, England.
Filed August 2, 1920. Serial No. 135,722. PUBLISHED APRIL 26, 1921.

145,391. CANNED FRUITS, VEGETABLES, SOUPS; TEA, COFFEE, FLOUR, CONDIMENTS; SYRUP; BUTTER, EGGS, CHEESE, AND OTHER FOODS. JOHNSON EDUCATOR FOOD CO., Cambridge, Mass.
Filed December 28, 1920. Serial No. 141,590. PUBLISHED MAY 3, 1921.

145,392. DAIRY FEED. JOSEY MILLER CO., Beaumont, Tex.
Filed December 1, 1920. Serial No. 140,495. PUBLISHED MAY 3, 1921.

145,393. BREAD. FRED KEISER, Scranton, Pa.
Filed May 16, 1919. Serial No. 118,564. PUBLISHED APRIL 26, 1921.

145,394. ICE-CREAM, FROZEN DAINTIES, CAKE, AND PASTRY DELICACIES. GEORGE F. KEMPEN, Ardmore, Pa.
Filed March 23, 1920. Serial No. 130,101. PUBLISHED APRIL 26, 1921.

145,395. CANDY. KIRBY BROTHERS COMPANY, Springfield, Mass.
Filed December 14, 1920. Serial No. 141,070. PUBLISHED APRIL 26, 1921.

145,396. VEHICLE OF THE SCOOTER TYPE HAVING RUNNERS FOR TRAVELING ON ICE. KOKOMO SPECIALTIES MFG. CO., Kokomo, Ind.
Filed July 9, 1920. Serial No. 134,750. PUBLISHED APRIL 12, 1921.

145,397. CANDY AND CHOCOLATE-BARS. JOHN KOTSOVETES, Indianapolis, Ind.
Filed December 20, 1920. Serial No. 141,314. PUBLISHED APRIL 26, 1921.

145,398. CERTAIN ARTICLES OF CLOTHING. JOHN H. LEICH CO., New York, N. Y.
Filed May 19, 1920. Serial No. 132,650. PUBLISHED DECEMBER 7, 1920.

145,399. CHEESE. LEMANN & CIE., Langnau, Berne, Switzerland.
Filed November 26, 1920. Serial No. 140,187. PUBLISHED MAY 3, 1921.

145,400. MACARONI AND VERMICELLI. LIBERTY MACCHERONI MFG. CO., Buffalo, N. Y.
Filed January 20, 1921. Serial No. 142,504. PUBLISHED APRIL 26, 1921.

145,401. LEAF-TOBACCO. LIGGETT & MYERS TOBACCO CO., New York, N. Y.
Filed March 11, 1920. Serial No. 129,558. PUBLISHED APRIL 26, 1921.

145,402. PARLOR GAME PLAYED WITH A BOARD AND SMALL PIECES OR MEN MOVABLE OVER THE SAME. WALTER S. LORING, Plymouth, Mass.
Filed September 25, 1920. Serial No. 137,621. PUBLISHED APRIL 26, 1921.

145,403. COTTON GOODS IN THE PIECE. LONSDALE COMPANY, Providence, R. I.
Filed July 22, 1919. Serial No. 120,795. PUBLISHED MAY 3, 1921.

145,404. STORAGE BATTERIES. CHARLES E. LUBURG, Philadelphia, Pa.
Filed January 31, 1921. Serial No. 142,981. PUBLISHED APRIL 26, 1921.

145,405. SOLID RESILIENT INNER TUBING FOR USE IN AUTOMOBILE-TIRES. JOHN T. MCMAHON, Kansas City, Mo.
Filed October 20, 1919. Serial No. 123,995. PUBLISHED APRIL 26, 1921.

145,406. CERTAIN NAMED DRESS TRIMMINGS, &c. MAASS & KEMPER, INCORPORATED, Baltimore, Md.
Filed December 17, 1920. Serial No. 141,236. PUBLISHED MAY 3, 1921.

145,407. PASTE PREPARATION HAVING DETERGENT AND HEALING PROPERTIES. MAGIC KLENO MANUFACTURING CO., Kansas City, Mo.
Filed March 10, 1921. Serial No. 144,582. PUBLISHED APRIL 26, 1921.

145,408. LACES AND EMBROIDERIES IN THE PIECE. MAJESTIC LACE AND EMBY. WORKS, New York, N. Y.
Filed November 16, 1920. Serial No. 139,715. PUBLISHED MAY 3, 1921.

145,409. NON-ALCOHOLIC LIQUID, SEMILIQUID, AND CONCENTRATED MALT EXTRACTS. MALT-DIASTASE COMPANY, New York, N. Y.
Filed January 14, 1920. Serial No. 127,136. PUBLISHED APRIL 26, 1921.

145,410. CAMBRIC MUSLIN IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,258. PUBLISHED MAY 3, 1921.

145,411. COTTON DUCK IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,279. PUBLISHED APRIL 26, 1921.

145,412. CANTON-FLANNEL, PILLOW-TUBING, AND COTTON DUCK IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,281. PUBLISHED MAY 3, 1921.

145,413. MUSLINS IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,297. PUBLISHED MAY 3, 1921.

145,414. BEDSPREADS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,321. PUBLISHED APRIL 26, 1921.

145,415. SILK GOODS IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed December 21, 1920. Serial No. 141,365. PUBLISHED APRIL 26, 1921.

145,416. PREPARATION FOR PREVENTING THE DEPOSIT OF MOISTURE ON SHOW-WINDOWS, WINDSHIELDS, SPECTACLE-LENSES, &c. RALPH B. MESSINGER, San Diego, Calif.
Filed October 13, 1920. Serial No. 138,259. PUBLISHED APRIL 26, 1921.

145,417. TRUCK-BODIES — NAMELY, AUTOTRUCK-BODIES. THE METROPOLITAN BODY COMPANY, Bridgeport, Conn.
Filed December 27, 1920. Serial No. 141,531. PUBLISHED MAY 3, 1921.

145,418. TOY CARPET-SWEEPERS. MIDGET NOVELTY CO. INC., New York, N. Y.
Filed September 9, 1920. Serial No. 136,991. PUBLISHED APRIL 26, 1921.

145,419. TOY CARPET-SWEEPERS. MIDGET NOVELTY CO. INC., New York, N. Y.
Filed September 9, 1920. Serial No. 136,992. PUBLISHED APRIL 26, 1921.

145,420. FARM, LOG, AND ONE-HORSE WAGONS. MOGUL WAGON COMPANY, Hopkinsville, Ky.
Filed April 9, 1920. Serial No. 130,907. PUBLISHED MAY 3, 1921.

145,421. TIMERS AND COMMUTATORS. THE M-R COMPANY, Lincoln, Nebr.
Filed March 5, 1921. Serial No. 144,342. PUBLISHED APRIL 26, 1921.

145,422. CEREAL BREAKFAST FOOD. KELLOGG TOASTED CORN FLAKE CO., Battle Creek, Mich.
Filed August 4, 1920. Serial No. 135,785. PUBLISHED APRIL 5, 1921.

145,423. BISCUIT. NATIONAL BISCUIT COMPANY, Jersey City, N. J., and New York, N. Y.
Filed December 24, 1920. Serial No. 141,500. PUBLISHED APRIL 26, 1921.

145,424. RING-TRAVELERS. NATIONAL RING TRAVELER CO., Providence, R. I.
Filed October 21, 1920. Serial No. 138,649. PUBLISHED APRIL 26, 1921.

145,425. GARDEN-SEED. NORTHUP, KING & CO., Minneapolis, Minn.
Filed January 11, 1921. Serial No. 142,090. PUBLISHED APRIL 26, 1921.

145,426. SAFETY-TREAD TILES AND TERRAZZO OF BONDED ABRASIVE GRAINS. NORTON COMPANY, Worcester, Mass.
Filed April 6, 1920. Serial No. 130,729. PUBLISHED MAY 3, 1921.

145,427. SAFETY-TREAD TILES AND TERRAZZO OF BONDED ABRASIVE GRAINS. NORTON COMPANY, Worcester, Mass.
Filed April 6, 1920. Serial No. 130,730. PUBLISHED MAY 3, 1921.

145,428. PREPARATIONS USED IN THE MANUFACTURE OF ICE-CREAM. OGDEN WHOLESALE DRUG CO., Ogden, Utah.
Filed October 8, 1919. Serial No. 128,555. PUBLISHED APRIL 26, 1921.

145,429. BUTTER-SCOTCH. PAGE & SHAW, INC., Cambridge, Mass.
Filed October 15, 1918. Serial No. 118,743. PUBLISHED DECEMBER 9, 1919.

145,430. CHOCOLATE, COCOA, POWDER, AND COCOA-BUTTER. PAGE & SHAW, INC., Cambridge, Mass.
Filed February 3, 1921. Serial No. 143,139. PUBLISHED MAY 3, 1921.

145,431. FLEXIBLE FABRIC TIRE-COVERS. PARKER & WATERMAN MANUFACTURING CO., Los Angeles, Calif.
Filed June 21, 1920. Serial No. 134,482. PUBLISHED MAY 3, 1921.

145,432. HOUSEHOLD AND GENERAL CLEANING COMPOUND IN POWDER FORM. THE J. H. PARSONS CHEMICAL COMPANY, Chicago, Ill.
Filed February 14, 1921. Serial No. 143,571. PUBLISHED APRIL 26, 1921.

145,433. BUREAU-SCARFS, TABLE-SCARFS, FABRIC BLANKETS, TEXTILE MATS, AND COTTON AND WOOL PIECE GOODS. F. A. PATRICK & CO., Duluth, Minn.
Filed January 5, 1921. Serial No. 141,874. PUBLISHED MAY 3, 1921.

145,434. CHOCOLATES AND CANDY. THE PATTERSON CANDY CO. LIMITED, Toronto, Ontario, Canada.
Filed January 7, 1921. Serial No. 141,956. PUBLISHED APRIL 26, 1921.

145,435. DAIRY FEED COMPOSED OF UNBOLTED CORNMEAL, ALFALFA-MEAL, WHEAT-BRAN, COTTON-SEED MEAL, AND MOLASSES. PEASE & DWYER CO., Memphis, Tenn.
Filed January 20, 1921. Serial No. 142,525. PUBLISHED APRIL 26, 1921.

145,436. A LAUNDRY-WASHING COMPOUND. ARTHUR E. PETERSEN, Portland, Oreg.
Filed April 6, 1918. Serial No. 110,033. PUBLISHED MAY 11, 1920.

145,437. TONIC FOOD IN GRANULATED FORM. A. PEYROUX & CIE., Paris, France.
Filed October 15, 1920. Serial No. 138,334. PUBLISHED MAY 3, 1921.

145,438. SPARK-PLUGS. WILLIAM L. PHILLIPS, Brockton, Mass.
Filed March 14, 1921. Serial No. 144,739. PUBLISHED APRIL 26, 1921.

145,439. A MOTION-PICTURE-PROJECTING MACHINE AND FILMS THEREFOR. PILGRIM PICTURES COMPANY, New York, N. Y.
Filed November 19, 1920. Serial No. 139,868. PUBLISHED MAY 3, 1921.

145,440. SOAP. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed March 2, 1921. Serial No. 144,248. PUBLISHED APRIL 26, 1921.

145,441. CARBURETERS FOR INTERNAL-COMBUSTION ENGINES. CHARLES H. PUGH LIMITED, Birmingham, England.
Filed January 10, 1921. Serial No. 142,029. PUBLISHED APRIL 26, 1921.

145,442. MONTHLY MAGAZINE. WILLIAM A. RADFORD, Chicago, Ill.
Filed September 15, 1919. Serial No. 122,733. PUBLISHED JANUARY 6, 1920.

145,443. A PREPARATION FOR TAKING GREASE AND DIRT OUT OF LEATHER AND WOVEN POWER TRANSMISSION BELTS, &c. RENOVATOL COMPANY, INC., Philadelphia, Pa.
Filed March 5, 1921. Serial No. 144,351. PUBLISHED APRIL 26, 1921.

145,444. CIGARS. EDWARD F. REQUARD, Baltimore, Md.
Filed September 27, 1920. Serial No. 137,677. PUBLISHED MARCH 29, 1921.

145,445. CIGARS. EDWARD F. REQUARD, Baltimore, Md.
Filed September 27, 1920. Serial No. 137,678. PUBLISHED MARCH 29, 1921.

145,446. SOAPS. THE J. T. ROBERTSON CO., Hartford, Conn.
Filed March 1, 1921. Serial No. 144,202. PUBLISHED APRIL 26, 1921.

145,447. ALL-SILK CREPE PIECE GOODS. A. S. ROSENTHAL COMPANY, New York, N. Y.
Filed October 18, 1920. Serial No. 138,456. PUBLISHED APRIL 26, 1921.

145,448. CAKE. MOSES ROSENTHAL, Oakland, Calif.
Filed February 16, 1921. Serial No. 143,657. PUBLISHED APRIL 26, 1921.

145,449. TOILET SOAP. SABERTON MFG. CO., Tampa, Fla.
Filed February 6, 1920. Serial No. 128,049. PUBLISHED MAY 3, 1921.

145,450. CANNED FRUITS AND VEGETABLES. SAN BENITO COUNTY CANNING CO., Hollister, Calif.
Filed November 23, 1920. Serial No. 140,076. PUBLISHED FEBRUARY 8, 1921.

145,451. CANNED VEGETABLES—NAMELY, CANNED TOMATOES WITH PURÉE FROM TRIMMINGS—AND CANNED FRUITS—NAMELY, CANNED APRICOTS. SAN BERNARDINO CANNING CO., San Bernardino, Calif.
Filed August 8, 1919. Serial No. 121,420. PUBLISHED APRIL 26, 1921.

145,452. SALAD-DRESSING, VINEGAR, MARMALADES, JELLIES, SALAD-OIL, PRESERVED-FRUIT PUDDINGS, MINCE-MEAT, PEANUT-BUTTER, HONEY, FRUIT BUTTERS, PICKLED FIGS, AND SWEET CHUTNEY. SAN DIEGO CONSERVE COMPANY, San Diego, Calif.
Filed October 21, 1920. Serial No. 138,655. PUBLISHED MARCH 22, 1921.

145,453. NON-ALCOHOLIC MALTLESS BEVERAGE SOLD AS A SOFT DRINK. LOUIS SCHILLER, San Francisco, Calif.
Filed September 27, 1920. Serial No. 137,680. PUBLISHED MAY 3, 1921.

145,454. GINGER-ALE. SCHOENHOFEN COMPANY, Chicago, Ill.
Filed February 21, 1918. Serial No. 109,162. PUBLISHED JULY 9, 1918.

145,455. ROOT-BEER. SCHOENHOFEN COMPANY, Chicago, Ill.
Filed April 3, 1918. Serial No. 109,959. PUBLISHED JUNE 18, 1918.

145,456. CHOCOLATE CANDY. SCHULER CHOCOLATE FACTORY, Winona, Minn.
Filed January 11, 1921. Serial No. 142,104. PUBLISHED APRIL 26, 1921.

145,457. ELECTRICAL AMMETERS. HARRY I. SHIRE, Detroit, Mich.
Filed January 12, 1921. Serial No. 142,172. PUBLISHED APRIL 26, 1921.

145,458. ELECTRIC HEATING-RADIATORS. SIMPLEX ELECTRIC HEATING CO., Boston, Mass.
Filed March 18, 1921. Serial No. 144,943. PUBLISHED APRIL 26, 1921.

145,459. RUBBER INNER TIRE-TUBES AND FABRIC AND CORD TIRE-CASINGS. SIOUX CITY TIRE AND MANUFACTURING COMPANY, Sioux City, Iowa.
Filed January 2, 1920. Serial No. 126,752. PUBLISHED MAY 3, 1921.

145,460. MICROMETER-CALIPERS. J. T. SLOCOMB CO., Providence, R. I.
Filed December 15, 1920. Serial No. 141,135. PUBLISHED APRIL 26, 1921.

145,461. SOAPS. ALFRED H. SMITH COMPANY, New York, N. Y.
Filed November 4, 1920. Serial No. 139,176. PUBLISHED MAY 3, 1921.

145,462. JELLIES, FRUIT PRESERVES, JAMS, AND SWEET PICKLES. W. M. Spencer Sons Co., Cincinnati, Ohio.
Filed December 28, 1920. Serial No. 141,606. PUBLISHED APRIL 26, 1921.

145,463. AUTOMOBILES. Stevens-Duryea, Inc., Chicopee, Mass.
Filed January 5, 1921. Serial No. 141,884. PUBLISHED APRIL 26, 1921.

145,464. OLEOMARGARIN. B. Stilling-Andersen, Inc., New York, N. Y.
Filed January 7, 1921. Serial No. 141,935. PUBLISHED MAY 3, 1921.

145,465. WOOL, COTTON, AND SILK YARNS. L. Stockman & Son, Brooklyn, N. Y.
Filed February 2, 1921. Serial No. 143,105. PUBLISHED MAY 3, 1921.

145,466. A TOY MINIATURE THEATER. Melville Stoltz, St. Louis, Mo.
Filed August 9, 1920. Serial No. 135,949. PUBLISHED APRIL 12, 1921.

145,467. CHOCOLATE. N. V. Stoom Chocolade- and Cacaofabriek "Kwatta," Middenlaan, Breda, Netherlands.
Filed February 7, 1921. Serial No. 143,300. PUBLISHED MAY 3, 1921.

145,468. PREPARED CAKE-FLOUR. Sunset Food Products Co., Seattle, Wash.
Filed October 18, 1920. Serial No. 138,461. PUBLISHED MAY 3, 1921.

145,469. SPARK-PLUGS. Symms-Brownell Mfg. Co., Sioux Falls, S. D.
Filed February 3, 1921. Serial No. 143,145. PUBLISHED APRIL 26, 1921.

145,470. TRAILERS. The Texas Wagon Works, Inc., Houston, Tex.
Filed October 28, 1920. Serial No. 138,931. PUBLISHED APRIL 26, 1921.

145,471. THROWN SILK. Tynan Throwing Co., Paterson, N. J.
Filed December 20, 1920. Serial No. 141,338. PUBLISHED APRIL 26, 1921.

145,472. MONTHLY JOURNAL. U. S. Bottlers Machinery Co., Chicago, Ill.
Filed December 11, 1920. Serial No. 140,969. PUBLISHED MAY 3, 1921.

145,473. CERTAIN NAMED PIECE GOODS, CARPETS, RUGS, HANDKERCHIEFS, QUILTS, HAIR-NETS, &c. The United States and South America Corporation, New York, N. Y.
Filed April 24, 1920. Serial No. 131,609. PUBLISHED MAY 3, 1921.

145,474. BEER. The Victor Brewing Company, Jeannette, Pa.
Filed July 31, 1919. Serial No. 121,163. PUBLISHED APRIL 26, 1921.

145,475. ELECTRICAL RANGES AND ELECTRICAL WASHING-MACHINES. Wabash Valley Electric Co., Clinton, Ind.
Filed March 7, 1921. Serial No. 144,427. PUBLISHED APRIL 26, 1921.

145,476. CEREAL FOODS COMMONLY KNOWN AS BREAKFAST CEREALS. Walton Milling Company, Lansing, Mich.
Filed January 17, 1921. Serial No. 142,370. PUBLISHED APRIL 26, 1921.

145,477. WOOLEN AND COTTON PIECE GOODS. Walworth Sales Corporation, New York, N. Y.
Filed December 27, 1918. Serial No. 114,842. PUBLISHED MAY 3, 1921.

145,478. JAM, JELLY, FRUIT PRESERVES, AND CONSERVES. The Welch Grape Juice Company, Westfield, N. Y.
Filed January 21, 1921. Serial No. 142,570. PUBLISHED APRIL 26, 1921.

145,479. JAM, JELLY, FRUIT PRESERVES, AND CONSERVES. The Welch Grape Juice Company, Westfield, N. Y.
Filed January 21, 1921. Serial No. 142,572. PUBLISHED APRIL 26, 1921.

145,480. JAM, JELLY, FRUIT PRESERVES, AND CONSERVES. The Welch Grape Juice Company, Westfield, N. Y.
Filed January 21, 1921. Serial No. 142,573. PUBLISHED APRIL 26, 1921.

145,481. CANNED CORN. Warrensburg Canning Company, Warrensburg, Ill.
Filed January 11, 1921. Serial No. 142,097. PUBLISHED APRIL 26, 1921.

145,482. CLEANING AND WASHING POWDER. Wade H. Westmoreland, Indianapolis, Ind.
Filed January 3, 1921. Serial No. 141,817. PUBLISHED APRIL 26, 1921.

145,483. CLEANING AND WASHING POWDER. Wade H. Westmoreland, Indianapolis, Ind.
Filed January 3, 1921. Serial No. 141,818. PUBLISHED APRIL 26, 1921.

145,484. PUBLICATION PUBLISHED MONTHLY. William C. Wheeler, Oklahoma, Okla.
Filed December 18, 1920. Serial No. 141,286. PUBLISHED MAY 3, 1921.

145,485. CERTAIN NAMED STOVES, OVENS, STOVE-PIPE ELBOWS, AND FLUE-THIMBLES. Wheeling Corrugating Company, Wheeling, W. Va.
Filed January 31, 1921. Serial No. 143,024. PUBLISHED APRIL 19, 1921.

145,486. CERTAIN NAMED BUILDING MATERIAL. Wheeling Corrugating Company, Wheeling, W. Va.
Filed January 31, 1921. Serial No. 143,027. PUBLISHED APRIL 19, 1921.

145,487. DRESSING TO BE USED ON LEATHER AND ARTICLES MADE THEREFROM. Whittemore Brothers, Corporation, Cambridge, Mass.
Filed July 24, 1919. Serial No. 120,902. PUBLISHED MAY 18, 1920.

145,488. PUDDINGS AND PIE-FILLINGS. Charles T. Whittier, New York, N. Y.
Filed March 26, 1920. Serial No. 130,252. PUBLISHED APRIL 26, 1921.

145,489. FRESH CITRUS FRUITS — NAMELY, ORANGES, LEMONS, AND GRAPE-FRUIT. Whittier Citrus Association, Whittier, Calif.
Filed April 22, 1919. Serial No. 117,756. PUBLISHED NOVEMBER 25, 1919.

145,490. OLEOMARGARIN. H. P. Wilkins Co., Chicago, Ill.
Filed February 15, 1921. Serial No. 143,622. PUBLISHED APRIL 26, 1921.

145,491. CERTAIN NAMED FOODS. Sussman Wormser & Co., San Francisco, Calif.
Filed October 20, 1920. Serial No. 138,614. PUBLISHED APRIL 26, 1921.

145,492. GOLF-BALLS. The Worthington Ball Company, Elyria, Ohio.
Filed February 18, 1920. Serial No. 128,577. PUBLISHED APRIL 12, 1921.

145,493. POLISH FOR AUTOMOBILE-BODIES. Isaiah C. Zachary, Wichita, Kans.
Filed October 16, 1920. Serial No. 138,422. PUBLISHED APRIL 26, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

AUGUST 2, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

145,494. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) James G. Allen, Oakland, Calif. Filed Oct. 6, 1920. Serial No. 138,002.

Allen's

Particular description of goods.—Powdered Graphite and Flaked Graphite.
Claims use since Feb. 28, 1911

145,495. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) American Tripoli Company, Seneca, Mo. Filed May 2, 1921. Serial No. 147,074.

ONCE GROUND

Particular description of goods.—Tripoli Flour, (Ground Tripoli Stone.)
Claims use since Dec. 1, 1919.

145,496. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Fred. R. Allmann, Brooklyn, N. Y. Filed June 4, 1921. Serial No. 148,631.

Webster
FABRICS

Particular description of goods.—Woolen Piece Goods.
Claims use since May 16, 1917.

145,497. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The Blair-Milling Co., Atchison, Kans. Filed Apr. 23, 1921. Serial No. 146,676.

Blair's Certified

Particular description of goods.—Wheat-Flour.
Claims use since Feb. 1, 1920.

145,498. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Filed Aug. 2, 1920. Serial No. 135,695.

MANCHESTER MILLS

Particular description of goods.—Bed-Ticking.
Claims use since 1905.

145,499. (CLASS 2. RECEPTACLES.) Boyle Manufacturing Company, Los Angeles, Calif. Filed June 1, 1920. Serial No. 133,124.

SERVICE UNIT

Particular description of goods.—Receptacles and Mountings for Same, Consisting of a Canteen or Canteens or other Container or Containers and Devices for Holding Same in Place on an Automobile Running-Board or other Vehicle-Support, Such Outfits Being Adapted to Contain Gasolene, Oil, Water, or other Fluid or Material for Automobile Use.
Claims use since May 3, 1920.

145,500. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CAMPBELL BAKING COMPANY, Wilmington, Del., and Kansas City, Mo. Filed Dec. 10, 1920. Serial No. 140,862.

MERIT

Particular description of goods.—Bread and Rolls.
Claims use since September, 1911.

145,501. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. P. CLEARWATER, Hallowell, Me. Filed Apr. 2, 1921. Serial No. 145,612.

JOINT-EASE

Particular description of goods.—Pharmaceutical Preparations for External Treatment for the Relief of Pains, Stiffness, Sore Muscles, Swollen or Inflamed Joints in Rheumatism, Lumbago, Sciatica, Gout, Neuritis, Neuralgia, Chilblains, Headache, Colds in Head or Chest, Nasal Catarrh, Earache, Toothache, Prickly Heat, Bites, Stings of Insects, Rough Chapped Skin, and Certain Forms of Eczema.
Claims use since about May, 1914.

145,502. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE DAYTON AUTOMOTIVE WHEEL COMPANY, Dayton, Ohio. Filed Feb. 7, 1921. Serial No. 143,260.

DISC WOOD

Particular description of goods.—Wheels.
Claims use since Apr. 22, 1920.

145,503. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) IRVING A. DORFMANN, New York, N. Y. Filed May 13, 1921. Serial No. 147,663.

MILWAUKEE
BRAND
Malt Extract

Particular description of goods.—Malt Extract.
Claims use since May 1, 1920.

145,504. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FEDERAL ADDING MACHINE CORPORATION, New York, N. Y. Filed June 10, 1921. Serial No. 148,033.

FEDERAL

Particular description of goods.—Adding-Machines.
Claims use since on or about Oct. 1, 1917.

145,505. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed June 1, 1921. Serial No. 148,493.

LONGLIFE

Particular description of goods.—Belts and Belting Made of Rubber Combined with Fabric.
Claims use since about 1910.

145,506. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENNINGSEN PRODUCE COMPANY, Portland, Oreg. Filed May 2, 1921. Serial No. 147,107.

OREGON

Particular description of goods.—Evaporated Milk.
Claims use since 1913.

145,507. (CLASS 39. CLOTHING.) THE H & W COMPANY, INC., Newark, N. J. Filed Apr. 4, 1921. Serial No. 145,685.

Fit Stout

Particular description of goods.—Brassières and Bandeaux.
Claims use since about July 1, 1916.

145,508. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE INDIA TIRE & RUBBER CO., Mogadore, Ohio. Filed Mar. 26, 1921. Serial No. 145,266.

INDIA

Particular description of goods.—Pneumatic-Tire Casings and Inner Tubes for Pneumatic Tires Composed of Rubber, Rubber Composition, or Fabric and Rubber.
Claims use since Dec. 18, 1917.

145,509. (CLASS 17. TOBACCO PRODUCTS.) LARUS & BROTHER COMPANY, Richmond, Va. Filed June 13, 1919. Serial No. 119,564.



Particular description of goods.—Plug Tobacco.
Claims use since 1900.

145,510. (CLASS 43. THREAD AND YARN.) H. E. LOCKE & COMPANY, INC., Boston, Mass. Filed July 21, 1919. Serial No. 120,755.

LINCOLN

Particular description of goods.—Thread and Yarn.
Claims use since December, 1898.

145,511. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LORRAINE CAR CO., Richmond, Ind. Filed June 9, 1920. Serial No. 133,484.

Lorraine

Particular description of goods.—Motor-Driven Vehicles—viz., Limousines, Sedans, Hearses, and Ambulances.
Claims use since Oct. 22, 1918.

145,512. (CLASS 32. FURNITURE AND UPHOLSTERY.) METAL OFFICE FURNITURE CO., Grand Rapids, Mich. Filed Jan. 12, 1921. Serial No. 142,160.

STEELCASE

Particular description of goods.—Steel Filing-Cabinets and Desks.
Claims use since Jan. 31, 1920.

145,513. (CLASS 31. FILTERS AND REFRIGERATORS.) THE MILLER PASTEURIZING MACHINE COMPANY, (now by change of name The H. H. Miller Industries Company, a Corporation of Ohio,) Canton, Ohio. Filed July 16, 1920. Serial No. 135,656.

Miller

Particular description of goods.—Ice-Cream Freezers, Batch Tanks for Ice-Cream Freezers, Cooling and Holding Tanks, Bases for Ice-Cream Freezers, and Brine-Producing Apparatus.
Claims use since on or about the year 19..

145,514. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHINSAKU NAGANO, Chicago, Ill. Filed Apr. 22, 1921. Serial No. 146,576.



Particular description of goods.—A Sauce for Seasoning Food.
Claims use since October, 1911.

145,515. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) NORTHWESTERN EXTRACT CO., Milwaukee, Wis. Filed June 6, 1921. Serial No. 148,753.

Cherry Sparkle

Particular description of goods.—A Maltless, Non-Cereal Beverage Containing Less Than One-Half of One Per Cent. Alcohol, by Volume, Sold as a Soft Drink and Syrup for Making the Same.
Claims use since January, 1920.

145,516. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) O'BANNON CORPORATION, New York, N. Y. Filed May 20, 1921. Serial No. 147,979.

MOLESKIN

Particular description of goods.—Waterproof Upholstering Fabrics.
Claims use since May 17, 1916.

145,517. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) OLIVER OIL-GAS BURNER & MACHINE COMPANY, St. Louis, Mo., and San Francisco, Calif. Filed May 16, 1921. Serial No. 147,792.

ANTI-SEPTI-KLENZR

Particular description of goods.—A Cleansing Material for the Skin.
Claims use since December, 1918.

145,518. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. L. REID & CO., New York, N. Y. Filed Apr. 16, 1921. Serial No. 146,273.

NAGASAKI NAINSOOK

Particular description of goods.—Cotton Piece Goods.
Claims use since 1915.

145,519. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RICHARDSON CORPORATION, Rochester, N. Y. Filed Mar. 7, 1921. Serial No. 144,426.

CREAMY BEER

Particular description of goods.—Root-Beer Syrup and Root-Beer Made from Such Syrup.
Claims use since about March, 1918.

145,520. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUGLIELMO FILIPPO ROMANO, New York, N. Y. Filed Feb. 2, 1920. Serial No. 127,857.



Particular description of goods.—Dyes.
Claims use since on or about Sept. 1, 1919.

145,521. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) SCHRAM GLASS MANUFACTURING CO., Hillsboro, Ill., and St. Louis, Mo. Filed July 13, 1918. Serial No. 112,108.

STA-BRITE

Particular description of goods.—Lids or Caps for Fruit-Jars.
Claims use since about Mar. 25, 1918.

145,522. (CLASS 39. CLOTHING.) ISIDORE SCHWEITZER, New York, N. Y. Filed June 3, 1920. Serial No. 133,218.

Éléganté

Particular description of goods.—Knitted and Textile-Fabric Underwear of One, Two, and Three Pieces for Women and Children.
Claims use since early part of May, 1920.

145,523. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SIDWAY MERCANTILE COMPANY, Elkhart, Ind. Filed Jan. 8, 1921. Serial No. 141,999.

Sidway

Particular description of goods.—Baby-Carriages.
Claims use since Jan. 1, 1913.

145,524. (CLASS 12. CONSTRUCTION MATERIALS.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Oct. 15, 1920. Serial No. 138,356.

SIMMONS

Particular description of goods.—Ready-Roofing—viz., Felt Roofing, Felt-Asphalt Roofing, Roof-Cement; Roof-Coating—Namely, Liquid Asphalt.
Claims use since Sept. 20, 1907.

145,525. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE STUDEBAKER CORPORATION, South Bend, Ind., and Detroit, Mich. Filed Mar. 11, 1921. Serial No. 144,645.

Studebaker

Particular description of goods.—Rubber Tires for Automobiles.
Claims use since May 3, 1919.

145,526. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TEMTOR CORN & FRUIT PRODUCTS CO., St. Louis, Mo., and South Fort Smith, Ark. Filed Apr. 11, 1921. Serial No. 146,044.

Fit for all

Particular description of goods.—Stock Feed.
Claims use since 1919.

145,527. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNDERWOOD TYPEWRITER COMPANY, New York, N. Y. Filed Dec. 22, 1920. Serial No. 141,440.

UNDERWOOD

UNDERWOOD STANDARD PORTABLE TYPEWRITER

The lining expressing the colors red and gold.
Particular description of goods.—Typewriting-Machines and Typewriting-Machine Parts.
Claims use since about April, 1919.

145,528. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) UNITED STATES TIRE COMPANY, New York, N. Y. Filed Apr. 9, 1921. Serial No. 145,981.

NONPAREIL

Particular description of goods.—Vehicle-Tires Made of Rubber.
Claims use since about December, 1910.

145,529. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AUGUSTUS A. WEST, Philadelphia, Pa. Filed June 1, 1921. Serial No. 148,522.

Beach & Motor

Particular description of goods.—Hair-Nets.
Claims use since Nov. 22, 1918.

145,530. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FRANK W. WHITCHER COMPANY, Portland, Me., and Boston, Mass. Filed Apr. 22, 1921. Serial No. 146,612.

STERILIZED

Particular description of goods.—Fabricated Insoling.
Claims use since May, 1898.

145,531. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FRANK W. WHITCHER COMPANY, Portland, Me., and Boston, Mass. Filed Apr. 22, 1921. Serial No. 146,613.

ANTISEPTIC

Particular description of goods.—Fabricated Insoling.
Claims use since May, 1898.

145,532. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ZERBST PHARMACEUTICAL CO., St. Joseph, Mo. Filed Jan. 25, 1921. Serial No. 142,769.

ZERBST'S GRIP CAPSULES

Particular description of goods.—A Remedy for La Grippe and Colds.
Claims use since June, 1903.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

LATTIG AND GOODRUM *v.* ANDERSON.

Decided December 24, 1919.

1. PATENTS—INTERFERENCE—REDUCTION TO PRACTICE—EFFECT OF DELAY IN FILING APPLICATION.

Delay in filing an application for patent, other than where there has been such a concealment or suppression as is referred to in *Mason* v. *Hepburn*, (C. D., 1898, 510; 84 O. G., 147; 31 App. D. C., 86,) is material only in determining whether what is alleged to be a reduction to practice is anything more than an inconclusive experiment, and where the delay is satisfactorily explained it raises no unfavorable presumption.

2. SAME—SAME—EVIDENCE OF SUCCESSFUL TEST—OBJECTIONS TO PRACTICABILITY.

Reports of a test of an automatic telephone system stating that the system was more expensive than other systems that might be adopted, that its system of trunking was not adapted to large exchanges, and that there was a certain inherent difficulty about the metering system does not contradict or weaken the testimony of a witness who signed the report and the testimony of other witnesses that the test was successful.

APPEAL from Examiners-in-Chief.

TELEPHONE-EXCHANGE SYSTEM.

Mr. De Witt C. Tanner, *Mr. John G. Roberts*, and *Mr. Charles P. Soper* for Lattig and Goodrum.

Messrs. Bulkley & Swenarton and *Mr. E. D. Fales* for Anderson.

WHITEHEAD, *First Assistant Commissioner:*

Appeal is taken by Anderson from the decision of the Examiners-in-Chief reversing the decision of the Examiner of Interferences as to counts 1 to 4, inclusive, and awarding priority to Lattig and Goodrum.

The invention relates to an automatic telephone system and especially to means whereby a coin must be deposited to enable a conversation to begin and additional coins to be deposited at fixed intervals to enable the conversation to be continued.

The issue originally included six counts, but Lattig and Goodrum took no appeal from the decision adverse to them as to counts 5 and 6, based on the ground that the invention defined thereby was not disclosed in their application.

The counts appealed read as follows:

1. In a telephone system, subscribers' lines, means for establishing a connecting circuit through which a calling and a called subscriber may converse during predetermined time units, charging means individual to the calling line, means controlled by the called subscriber for operating said charging means, and means controlled by the calling subscriber for operating said charging means after the lapse of each time unit.

2. In a telephone system, subscribers' lines, automatic switches for establishing a connecting circuit through which a calling and a called subscriber may converse during time units of predetermined lengths, a coin collector associated with the calling subscriber's line, means controlled by the called and calling subscribers for rendering said connecting circuit effective, an automatic time switch actuated thereupon, means controlled by said time switch for rendering said connecting circuit ineffective after the lapse of a time unit, and means for rendering said connecting circuit again effective if the calling subscriber inserts a coin in said coin collector.

3. In a telephone system, a plurality of subscribers' lines, means including automatic selecting and connecting switches for establishing a talking circuit between two of said lines, means for automatically rendering said talking circuit inoperative at predetermined intervals of time, a measured service device, and means controlled thereby for again rendering said talking circuit operative.

4. In a telephone system, a plurality of subscribers' lines, means including automatic selecting and connecting switches for establishing a talking circuit between two of said lines, a time-controlled mechanism, means controlled by the response of the called subscriber for starting said mechanism in operation, means controlled by said mechanism for rendering said talking circuit inoperative at predetermined intervals of time, and a measured service device on the calling line for again rendering said circuit operative.

Anderson took no testimony and is therefore restricted to his filing date of December 30, 1913. The application of Lattig and Goodrum was filed September 24, 1915. They claim to have conceived the invention in 1904, and to have reduced it to practice in that year and again in 1905.

The record shows clearly that in the summer of 1905 the American Telephone and Telegraph Company built in Boston, under the direction of Goodrum, an apparatus representing a telephone system and embodying the invention here involved. There is no contention on behalf of Anderson that this invention was not embodied in that apparatus, but it is contended that what was done at that time did not constitute a reduction to practice.

Reference is made in the decision of the Examiner of Interferences, which sustained Anderson's contention, to the long delay in filing the application after that test.

Delay in filing an application for patent, other than in cases where there has been such a concealment or suppression of the invention as referred to, in *Mason* v. *Hepburn*, (84 O. G., 147; 31 App. D. C., 86,) is material only in determining whether what is now alleged to be a reduction to practice was anything more than an inconclusive experi-

ment. If, in fact, the invention was actually reduced to practice, the inventor does not lose his rights by delay in filing his application unless some statutory bar has arisen to the grant of a patent.

In his testimony Goodrum fully describes the apparatus which was installed in Boston, and as to this he is corroborated by the witness Toomey and the drawings and prints which are introduced in evidence from which the apparatus was actually built. Thompson also testifies to the character of the test. There is also introduced in evidence two reports made to the officers of the American Telephone and Telegraph Co., one setting out in detail the apparatus, the other being a report as to its commercial value to that company. The first is in evidence as Exhibit 13, and the second as Exhibit 14.

Both Toomey and Thompson testified that the device was successfully operated. Toomey states that the tests which were made were quite complete and corresponded very closely to tests made by the engineering department on other types of telephone equipment. (Q. 50.) He states that the test lasted about a week, that the coin-box mechanism was operated approximately two or three hundred times, (Q. 52,) and that according to his recollection the devices operated successfully in all but one or two cases, which were found to be due to the faulty adjustment of the brushes. (Qs. 55 and 56.) Thompson states (Q. 41) that the device operated successfully every time, so far as he knew, and that it never failed any time that he operated it.

But it is argued that the report, Exhibit 14, which was made at the time, is better evidence as to the non-successfulness of this test than any evidence which can now be introduced. It is correctly pointed out in the brief for Anderson that the burden is not upon Anderson to prove that this test did not establish a reduction to practice, but the burden is upon the junior parties to establish that it did. Certain statements in the report are referred to as showing that the device was unsatisfactory, and it is argued that the last paragraph of the report with respect to the value to the American Telephone and Telegraph Company of the entire system, of which the invention here involved was only a part, shows that Toomey and Warren, who signed the report, regarded the invention as valuable only for the purpose of obtaining patents and obstructing the art.

It is not thought, however, that the report is susceptible of such construction or that it contradicts or weakens the force of the testimony of Toomey, who, it is noted, was not cross-examined at all. The second paragraph of the report states that the work was carried on in the laboratory to such a point as to prove—

> beyond question the operativeness of the system, both in its fundamental principles and in the special devices for particular classes of service.

It is true that certain defects in the system are mentioned, especially that it was more expensive than other systems that might be adopted, that its system of trunking was not adapted to large exchanges, and that there was a certain inherent difficulty about the metering system.

Obviously the objections on the ground of the expense of installing a system such as that of Lattig and Goodrum would not be a ground for holding that the invention had not been reduced to practice. So far as the difficulty of metering was concerned, that related to the fact that the coin would be deposited when the called subscriber removed his receiver from the hook of the telephone, even though a wrong number had been called. It does not appear, however, that this was not a defect which was inherent in all systems at that time, and the apparatus might well have been an improvement over what was then known in the art, even with this defect. Whether that trouble has been cured in automatic systems since that time does not appear in the record, nor is any reference made thereto in the brief.

Considerable stress is laid on the statement on page 14 of the report, following the description of the special classes of service, that the circuits show a considerable amount of ingenuity and—

> we feel confident that with a certain amount of modification and adaptation they could all be made operative.

The report does not further amplify this statement; but it is not seen that that statement, even taken at its face value, would discredit the testimony of Toomey and Thompson that the device, in so far as it is involved in this interference, was operative, especially in view of the statement on the first page of the report that the test had proved beyond question the operativeness of these devices.

Nor is the statement that the value of the system to the American Telephone and Telegraph Company appeared to consist—

> rather in a few special features which for the most part seem to be hardly more than suggestions as to the proper means of accomplishing certain results,

in conflict with the testimony. This must be read in connection with the prior part of the report in which objections had been made to the system on account of the expense of installation, and these features might well have been considered as suggestions to be used in connection with other systems.

It appears clearly from the testimony of both Lattig and Goodrum that negotiations with the American Telephone and Telegraph Company were broken off after this test because of the refusal to comply with the demand made on behalf of Lattig and Goodrum that a large sum of money be at once paid for these inventions. While Lattig and Goodrum cannot establish by their mere joint testimony the dates of their conception and reduction to practice, no reason is seen why their statements on this matter should not be accepted, especially as Lattig appears to be no way interested in the invention or the present owner of it, and this testimony was so easily rebuttable if not true. Their testimony and the stipulated testimony of Staley shows very clearly why there was such a long delay in filing the application after the Boston test. While this delay if unexplained might be significant as to the results of the tests, any unfavorable presumption is rebutted by this explanation. (See *Hathaway* v. *Field, Lanning, and Colman*, 261 O. G., 413; —— App. D. C., ——.)

Having established a reduction to practice of the invention prior to Anderson's filing date to which he is restricted, and there being nothing to bring the case within the doctrine of *Mason* v. *Hepburn*, *supra*, priority was properly awarded to Lattig and Goodrum as to counts 1 to 4, inclusive.

The decision of the Examiners-in-Chief is affirmed.

DECISIONS OF THE U. S. COURTS.

Court of Appeals of the District of Columbia.

ANDERSON *v.* LATTIG AND GOODRUM.

Decided June 6, 1921.

PATENTS—INTERFERENCE—REDUCTION TO PRACTICE—AUTOMATIC TELEPHONE SYSTEM.

An experimental automatic telephone apparatus which was operated by a number of persons, some of whom made several hundred connections, and which failed only in one or two instances, and these were accounted for by a faulty adjustment of a switch, constitutes a reduction to practice.

Mr. C. C. Bulkley for Anderson.

Mr. J. G. Roberts and *Mr. G. W. Rich* for Lattig and Goodrum.

PER CURIAM:

Appeal from a decision of the Commissioner of Patents sustaining a decision of the Board of Examiners-in-Chief and awarding priority of invention to Lattig and Goodrum, the appellees herein.

Appellant has taken no testimony and therefore is restricted to his filing date. The Examiner of Interferences found that, prior to the filing date of appellant, the appellees, through the American Telephone & Telegraph Company in Boston, Massachusetts, installed an experimental apparatus responding to the four counts of this issue, which relate to an automatic telephone system in which a coin is deposited to permit the beginning of a conversation and additional coins deposited at intervals to permit the continuation of the conversation. "This apparatus," according to the finding of the Examiner of Interferences,

> was subjected to a thorough test, being operated by a number of persons some of whom made several hundred connections. It failed to establish the required connection only in one or two instances and these were accounted for by a faulty adjustment of a switch.

Notwithstanding this finding the Examiner expressed a doubt as to whether reduction to practice had been established. The Board and the Commissioner, entertaining no doubt on this point, reversed the Examiner and awarded priority to Lattig and Goodrum.

We have given careful consideration to the brief and argument in behalf of Anderson but are so convinced of the correctness of the conclusion of the Patent Office that we affirm the decision for the reasons stated by the Commissioner and Board.

Affirmed.

Court of Appeals of the District of Columbia.

WAHL *v.* WRIGHT.

Decided June 6, 1921.

PATENTS—INTERFERENCE—RIGHT TO MAKE CLAIMS.

Decision of the Commissioner of Patents holding that the senior party had no right to make the claims and that if they be so liberally construed as to read on the disclosure of the senior party they would also read on an earlier application of the junior party, and consequently awarding priority to the junior party, affirmed, no error therein being clearly apparent.

Mr. J. H. Milans and *Mr. C. T. Milans* for Wahl.

Mr. B. C. Stickney and *Mr. W. L. Morris* for Wright.

ROBB, *J.:*

Appeal from a decision of the Patent Office in an interference proceeding awarding priority of invention to the junior party Wright.

The invention is based upon practically the same structure as was involved in the prior interference, No. 1346, but is narrower in scope. It originally contained four counts. The Examiner of Interferences, being of the view that the question as to Wahls' right to make the claims had been foreclosed by a prior decision of the Examiners-in-Chief, awarded priority to him without considering that question. The Examiners-in-Chief found that this was a misconception of their former decision and, considering the question *de novo*, ruled that Wahl was not entitled to make the claims. They therefore awarded priority to Wright. The Commissioner sustained the Board, except as to count 3, and accordingly awarded priority as to that count to Wahl and priority as to counts 1, 2, and 4 to Wright.

These claims relate to a complicated mechanism and, under our rule, error must clearly appear to warrant a reversal of the Patent Office. The counts call for a follower whose position is positively determined by the level of the cam tracks. Wahl has two followers and the Commissioner points out that if the claims be so liberally construed as to read on his disclosure, a similar liberal construction would read on a prior application of Wright. We cannot say, therefore, that the limitation is an arbitrary one, and, not being clearly convinced that the Patent Office has erred, we affirm the decision.

Affirmed.

The decision of the Commissioner of Patents reads as follows:

NEWTON, *Commissioner:*

This is an appeal from the decision of the Examiners-in-Chief awarding priority to Wright, thus reversing the decision of the Examiner of Interferences, who had awarded priority to Wahl on the four following counts:

"1. The combination with a typewriting mechanism; of computing mechanism operable concomitantly with said typewriting mechanism; a typewriter carriage; a bar moving therewith; and a control for said computing mechanism, said control including a plurality of cam sections mounted on said bar, and a follower coöperating with said cam sections.

"2. The combination with a typewriting mechanism; of computing mechanism operable concomitantly with said typewriting mechanism; a typewriter carriage; a bar moving therewith; and a control for said computing mechanism, said control including a plurality of adjustable cam sections mounted on said bar and a follower coöperating with said adjustable cam sections.

"3. The combination with a typewriting mechanism; of computing mechanism operable concomitantly with said typewriting mechanism; a typewriter carriage; a bar moving therewith; cams having two tracks adjustably mounted on said bar; a follower whose position is positively determined by the level of said cam tracks; and a gear reversing device operated by said follower.

"4. In a calculating machine the combination of: a set of digit keys; a traveling carriage; a computing device; a master wheel adapted to insert numbers *seriatim* in said computing device upon the operation of said digit keys; an escapement for said carriage also operated by said digit keys; a bar on said carriage; a plurality of cams adjustably mounted on said bar; a follower cooperating with said adjustable cams; and a gear shift device for said master wheel controlled by said follower whereby the action of said digit keys on said master wheel during the travel of the carriage may be predetermined."

The invention is a combined typewriter and adder, and the points involved are (1) Wahl's right to make the counts and (2) whether the counts if readable on Wahl also read on Wright's prior application No. 569,502.

The counts were presented by Wahl under the provisions of Rule 109.

As pointed out by the lower tribunals, Wahl's disclosure clearly shows all the elements of count 1 except "a follower cooperating with the cam sections."

Wright's followers 156 or 157 answer this count without question. Wahl has two followers 73, 74, one cooperating with one cam 85[b], the other with another cam 86[a]. One follower shifts the control in one direction, and the other follower in the other direction. Neither of Wahl's so-called "followers" 73 or 74 follows more than one cam-section. Both of Wright's followers 156 or 157 follow a plurality of cam-sections. This count does not read on Wahl therefore, if Wahl's parts 73 or 74 be taken as the "follower" of the count.

I have attempted to read this count on Wahl by supposing the link 66, Figures 8 and 9, to be a "follower." Wright contends, in effect, that a cam "follower" is necessarily a part which follows the surface of the cam, and 66 therefore is not a "follower." If Wahl's link 66 could fairly be called a "follower," count 1 would read on Wahl; but I am inclined to think that it would be straining language beyond the natural or legitimate to denominate Wahl's link 66 a "follower." The link 66 only cooperates with the cam-section indirectly or through the "followers" 73, 74. Furthermore, from an equitable standpoint there appears to be no reason for straining the language of the counts beyond the natural or legitimate to read on Wahl since it is easy enough to frame a count broad enough to read without straining the language on both Wahl and Wright, and still be patentable over the prior art as shown in the Goldberg and other patents of record.

It is unusual that a count drawn by Wahl's attorney should read on Wright and not on Wahl; still under the circumstances of this case it is not strange, since Wahl probably had both devices before him in framing the count, as the count was presented under the provisions of Rule 109, after an interference between Wahl and Wright had been declared.

Counts 2 and 4 are in the same category as count 1.

Count 3 clearly reads on Wahl except for the limitation—

"a • • cams having two tracks adjustably mounted on said bar; a follower whose position is positively determined by the level of said cam tracks."

The position of Wahl's "follower" 73 is positively determined by the level of his cam tracks 85[b], etc. It is true one of the cam tracks acts through the other follower 74 but the language is broad enough to cover this construction.

Hence there was no error by the Examiners-in-Chief in their holding that counts 1, 2, and 4 would not fairly read on Wahl. It is held, however, that count 3 fairly reads on Wahl.

Moreover, if counts 1 and 2 be given a construction sufficiently strained to read on Wahl, they can by the same rules of construction be construed to read on Wright's disclosure in his application No. 569,502, since Figs. 1 and 24 of that disclosure show a plurality of horizontal cams 115, 116, 117 having sections 145, 146 and 147 and followers 121 (Fig. 1), which operate the setting mechanism for the totalizer, and as 121 is held against a cam by a spring 124, Fig. 1, it may fairly be called a "follower." At the hearing, however, Wahl objected to calling Wright's shaft 119 a bar, much less a bar moving with the carriage. But the shaft 119 through a train of mechanism including the shaft 132 moves every time the carriage steps and in that sense moves with the carriage, and it would no more strain the language to call 119 a "bar" than to call Wahl's link 66 a "follower." Hence if counts 1 and 2 be so liberally construed as to read on Wahl, by a similar liberal construction of the meaning of the terms they read on the Wright application 569,502, and, for reasons pointed out by the Examiner of Interferences, if these counts read on application 569,502 Wright should be awarded priority as to those counts.

I have not overlooked the fact that Wright in his brief before the Examiners-in-Chief only contended that count 1 read on application 569,502, but at the hearing before me he contended that all the counts read on 569,502. Count 2 only differs from count 1 by the inclusion in the former of the limitation "adjustable" as applied to the cam sections and surely Wright's (569,502) cam sections are adjustable by means of the handle 150, (Fig. 1.)

Counts 3 or 4 cannot be fairly read on Wright, 569,502, since the cams 115, 116 or 117 are not "adjustably mounted on the bar," (shaft 119.)

The Examiners-in-Chief have correctly pointed out an error of the Examiner of Interferences in his holding that he was bound by a decision of the Examiners-in-Chief that Wahl could make all the counts of the issue. They had never made such a holding.

It follows from the foregoing discussion that the decision of the Examiners-in-Chief awarding priority to Wright as to counts 1, 2, and 4 is affirmed, and as to count 3 it is reversed, and priority as to that count is awarded to Wahl.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., July 21, 1921.

Ella Virginia Cameron, her assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Ralph H. Estabrook, of 10 Lincoln street, Fitchburg, Mass., for registration of a trade-mark and trade-mark registered May 9, 1893, No. 22,996, to Ella Virginia Cameron, of 753 Third avenue, New York, N. Y., and a notice of such declaration sent by registered mail to said Ella Virginia Cameron at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said Ella Virginia Cameron, her assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Disclaimer.

1,359,259.—*Matthew Lechner*, New York, N. Y. ELECTRIC STORAGE BATTERY. Patent dated November 16, 1920.

Disclaimer filed July 25, 1921, by the patentee.

Enters this disclaimer—

To that part of said Letters Patent which is described in the first and fourth claims thereof, disclaiming any other unit and means for maintaining said unit in position except a unit in which the lateral edges of the battery-plates are at all points out of contact with the inner wall of the container and a support for such unit which consists as to at least one set of the battery-plates of no more than one piece of contact between each plate of said set and one of the bridges.

Patents Nos 1,386,590 to 1,387 444

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 289—No. 2. TUESDAY, AUGUST 9, 1921. Price—$5 per year.

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of August 9, 1921.

Patents	855—No. 1,386,590 to No.	1,387,444, inclusive.
Designs	32—No. 58,657 to No.	58,694, inclusive.
Trade-Marks	86—No. 145,533 to No.	145,538, inclusive.
Labels	20—No. 23,152 to No.	23,171, inclusive.
Prints	9—No. 5,684 to No.	5,692, inclusive.
Reissues	3—No. 15,174 to No.	15,176, inclusive.
Total	981	

International Bureau at Habana—Protection of Trade-Marks.

(ORDER NO. 2,685.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 6, 1921.

Under the convention adopted for the establishment of the International Bureau at Habana and regulations of such Bureau (280 O. G., 195) it is provided, to carry into effect the convention for the protection of trade-marks, that the legal representative of the administration of the country of origin shall communicate to the International Bureau (articles 2–1) the claim of the owner of the mark.

Hereafter no official abstract of title need be furnished by the applicant, but a fee of $5 must be paid the U. S. Patent Office, which will make the title search and perform the other work in connection with the certificate to the Habana Bureau.

Hereafter the applicant need not fill in the official form for such certificate, but in addition to paying the fee of $5 must provide the Office with (*a*) an international money order for $50 to the order of "Director of the International Bureau, Habana;" (*b*) an electrotype of the trade-mark, not larger than 10 centimeters in either dimension; (*c*) should the United States registration claim color as a distinctive element of the trade-mark he shall furnish thirty copies of the mark printed on paper, reproduced in color; (*d*) a statement including (1) the name of the owner of the mark; (2) the address of the owner of the mark; (3) the number and date of registration of the mark in the United States Patent Office, and (4) a translation into Spanish of the particular description of goods as stated in the certificate of registration.

THOMAS E. ROBERTSON,
Commissioner.

Fee for Recording Articles of Incorporation.

(ORDER No. 2,688.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 9, 1921.

For the present the Patent Office is recording the articles of incorporation of companies, so that their names may be available for trade-mark searchers. This is done at the request of the attorneys and is not advocated by the Office. As long as this practice continues a charge will be made for such record of $1.00 for 300 words or less; $2.00 if over 300 words and under 1,000 words; $1.00 for each additional 1,000 words or portion thereof.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,316,603.

On July 15, 1921, a decision was rendered that William I. Thompson was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,316,603, subject, "System of distribution," and no appeal having been taken within the time allowed such decision has become final.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Mark section will include: Trade-Marks published under the act of 1905; Trade-Marks registered under the act of 1905 and under the act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

Condition of Applications Under Examination at Close of Business July 30, 1921.

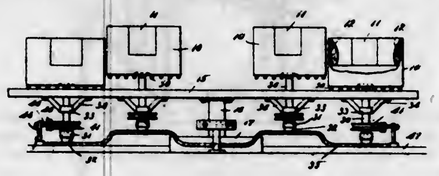
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Aug. 5; oldest amended, Oct. 29.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Feb. 26	Mar. 14	686
123	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Nov. 1	Jan. 10	1,826
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 18	Nov. 5	717
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 2	Mar. 16	1,555
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 13	Dec. 20	796
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 18	Apr. 26	996
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Feb. 10	Apr 6	1,526
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 14	June 13	643
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 1	June 27	819
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 4	May 14	1,231
134	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Apr. 15	May 14	426
222	12. PIERCE, P. F., Machine Elements.	Dec. 20	May 10	1,017
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 14	Apr. 18	1,624
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 2	May 28	873
308	15. REDEOW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 5	Jan. 5	1,633
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Sept. 11	Dec. 30	1,512
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 3	Apr. 20	962
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 7	Jan. 5	1,551
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 16	Feb. 25	947
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 3	Mar. 21	1,233
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Nov. 26	Apr. 14	570
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	Apr. 19	May 14	436
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 6	Apr. 30	824
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Dec. 29	Apr. 30	881
315	25. LIGHTFOOT, J. H., Agitating; Buttebering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	May 27	June 3	303
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Jan. 8	Mar. 9	788
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Feb. 18	Apr. 6	1,202
225	28. BENSON, A. R., Internal-Combustion Engines.	Jan. 3	Mar. 14	1,212
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning, Woodworking; Woodworking-Tools.	Jan. 8	May 12	727
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 7	June 1	1,152
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Sept. 27	Oct. 29	2,020
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Sept. 16	May 5	1,127
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Jan. 24	Mar. 24	20.
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	June 2	June 16	5
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 1	June 15	526
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Mar. 9	Feb. 17	1,561
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications.	Jan. 15	Jan. 21	2,097
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Mar. 12	Mar. 10	1,113
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 13	Nov. 11	1,784
273	40. HOPKINS, F. M., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 8	Mar. 2	2,167
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	Jan. 11	Mar. 26	882
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Nov. 8	Nov. 5	2,170
382	43. LANE, C. H., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Oct. 11	Dec. 20	1,364
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Nov. 26	May 2	530
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Jan. 26	Mar. 24	1,066
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Jan. 20	May 2	971
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Nov. 18	Mar. 16	1,045
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks.	Nov. 1	May 5	4,372
	Designs.	Nov. 24	Feb. 9	2,075
	Labels and Prints.	Apr. 23	July 16	528

Total number of applications awaiting action, excluding Trade-Mark division, 51,865; Trade-Mark division, 6,976.

PATENTS

GRANTED AUGUST 9, 1921.

1,386,590. AMUSEMENT DEVICE. DAVID A. ALPERT, Beachmont, Mass. Filed Apr. 2, 1919. Serial No. 286,962. 6 Claims. (Cl. 46—27.)



1. In a riding machine, the combination of a revolving support, a standard vertically slidable therein, a passenger carrying car fixed on the top of said standard, said car being provided on its bottom with roller bearings, a fixed undulated track, a suitable bearing mounted in the lower end of said standard and in engagement with said undulated track and means for revolving said support to cause said car to rise and fall in its path of travel.

1,386,591. LINK JEWELRY. ROBERT ANDERSON, New York, N. Y. Filed Aug. 5, 1919. Serial No. 315,428. 6 Claims. (Cl. 59—80.)



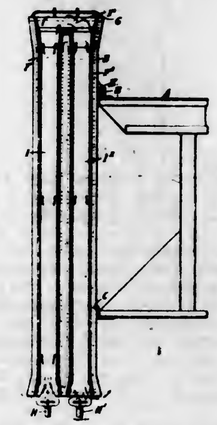
1. A bracelet comprising a series of similarly-shaped links having conforming contacting walls, a plurality of apertures provided in one of the walls of each of said links, a plurality of pins each secured at one of its ends within the other wall of said links, and having their other ends passed through the apertures in the wall of the next adjoining link, and curved rearwardly and terminating within said first named link and separately secured thereto, substantially as specified.

1,386,592. GARMENT-FASTENER. MAURICE ANDERSON, Cranston, R. I., assignor to V. E. Black Company, a Corporation of Rhode Island. Filed Feb. 26, 1921. Serial No. 448,006. 1 Claim. (Cl. 24—259.)



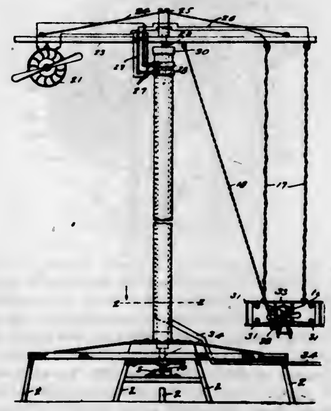
A garment fastener comprising an oblong body having near one end a longitudinally disposed opening with a transverse curved portion between the said opening and the adjacent end of the body with a shoulder raised in the material extending from said opening to the end of the body, and said end formed into a sleeve with a portion of said opening disposed in said sleeve, or pintle in said sleeve, and a tongue mounted on said pintle and resting near its pivot end on said shoulder.

1,386,593. METHOD OF DRYING MOLDS. THOMAS P. ANTHONY, Edgewater Park, N. J., assignor to United States Cast Iron Pipe & Foundry Company, a Corporation of New Jersey. Filed Aug. 26, 1920. Serial No. 406,041. 3 Claims. (Cl. 22—87.)



1. The method of drying pipe molds which consists in connecting the tops of two vertically held molds and passing drying gases through the connected molds from the bottom of one to the bottom of the other.

1,386,594. GAME. ERWIN AUFFURTH, Jr., and ERICK HJERPE, Port Arthur, Tex. Filed Sept. 4, 1920. Serial No. 408,245. 2 Claims. (Cl. 46—56.)



1. In a game, separately indicated receptacles, tokens corresponding to the indications on said receptacles to be distributed, a revoluble member provided with an air propeller and provided with a prize to be released by a

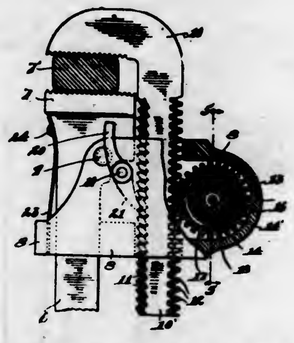
trip and means for electrically operating said propeller and means for operating said trip, said trip operating means including a member controlled by the centrifugal force of said revoluble member.

1,386,595. APRON. LYDIA BROMAN, Minneapolis, Minn. Filed Jan. 12, 1920. Serial No. 350,781. 1 Claim. (Cl. 2—54.)



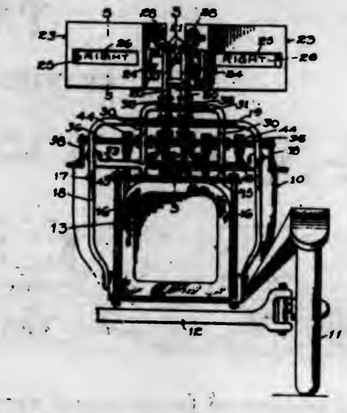
An apron comprising front and back sections detachably connected at one end, said connected ends being cut out, the cut out portions coöperating to form a neck opening, there being longitudinal plaits within the sections and extending from the connected ends thereof along substantially parallel lines toward the centers of the sections thereby to provide fullness at the bottom of the apron, a fastener for detachably connecting the sections of the apron at one side at the waist line, a belt extending around the apron and having free ends adapted to be tied together, and means for detachably connecting an intermediate portion of the belt to one of the sections adjacent the point of connection between said sections at the waist line.

1,386,596. WRENCH. WILLIAM J. CARPENTER, Chicago, Ill., assignor of one-half to John J. Jordan, Chicago, Ill. Filed Apr. 28, 1919. Serial No. 293,229. 9 Claims. (Cl. 81—130.)



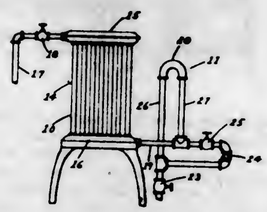
1. A wrench comprising a shank having a stationary jaw on the upper end thereof; a movable jaw having a projecting shank provided with teeth on opposite sides, the teeth on one side being perpendicular to the said shank and the teeth on the opposite side being angularly inclined thereto; a sleeve housing embracing said shanks, and mounted adjacent its upper edge on said stationary jaw; a pinion rotatively mounted in said housing and adapted to mesh with said perpendicular teeth; and resilient means coöperating with said pinion to move said movable jaw toward said stationary jaw when said movable jaw is moved therefrom; and means for locking said jaws in position; substantially as described.

1,386,597. AUTOMOBILE-SIGNAL. ALBERT C. COBB, Houston, Tex. Filed Mar. 25, 1919, Serial No. 285,110. Renewed Jan. 4, 1921. Serial No. 435,010. 3 Claims. (Cl. 116—46.)



1. A signal of the character described comprising, a supporting member adapted to be secured to the radiator of a vehicle, an arched frame secured to said supporting member and extending above said radiator, a horizontal bracing element traversing said arched supporting member, a pair of shafts journaled through said arched supporting member and mounted on said horizontal supporting member, a pair of casings carried by said shafts, and means for operating said shafts whereby the casings are operated.

1,386,598. RADIATOR HEATING SYSTEM. PATRICK JOSEPH COLEMAN, Bristol, Conn. Filed Nov. 24, 1919. Serial No. 340,247. 1 Claim. (Cl. 237—72.)



In a radiator heating system, in combination, a radiator having a discharge outlet at the lower end, a siphon structure positioned alongside the said radiator, a direct discharge pipe connected to the said discharge outlet, a shut-off valve positioned intermediate the ends of the said pipe for permitting and preventing flow therethrough, the arms of the said siphon structure being connected to the said pipe, one on each side of the said valve, whereby by closing the said valve the discharge from the radiator will be directed indirectly by way of the said siphon structure, and the said arms being of appreciable length and directed upwardly relatively to the said pipe, so that condensation in the siphon structure will serve as a trap to retain condensation in the radiator.

1,386,599. PNEUMATIC TIRE. JAMES H. COURVOISIER, Joplin, Mo. Filed Sept. 4, 1920. Serial No. 408,406. 1 Claim. (Cl. 152—13.)

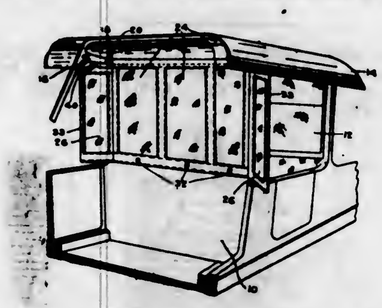
A tire, comprising a plurality of layers of fabric and an outer casing of rubber, the inner layers of fabric being formed in the shape of an inverted arch at the crown of the tire, a filling of rubber arranged between the

inner and outer layers of fabric and disposed in said arch, and a plurality of strands of cords embedded in said filling and arranged circumferentially of the tire, said strands being disposed in rows substantially parallel to each



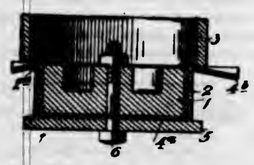
other and to the inner layers of fabric, and a second series of strands of cords embedded in said filling and arranged substantially parallel to the outer layers of fabric.

1,386,600. REAR-SEAT WINDSHIELD. VERNON E. CROSBY, Minneapolis, Minn. Filed May 29, 1920. Serial No. 385,194. 4 Claims. (C. 296—85.)



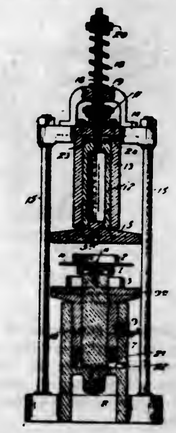
1. A rear seat wind-shield comprising a curtain containing transparent panels, a rod upon which the top of said curtain is swingingly supported, sockets supported at the sides of one of the canopy bows, the openings in said sockets being horizontally disposed for receiving the ends of said rod, springs in said sockets with which the ends of said rod engage, and means for securing said curtain at its bottom to the back of the front seat, said curtain when unfastened being adapted to be swung upwardly around said rod so as to be close to the canopy.

1,386,601. METHOD OF MAKING U-PACKING. THOMAS CROSSETT, Brooklyn, N. Y. Filed May 29, 1919. Serial No. 300,652. 4 Claims. (Cl. 69—21.)



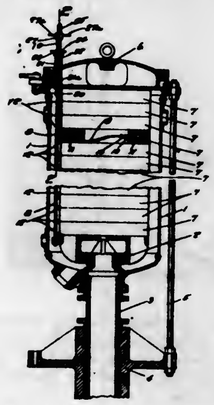
1. The method of making U-packing consisting in folding a piece of suitable material to form a wall extending from the midportion of the material and then folding the protruding portion of said material reversely outside of and spaced from said wall and surrounding the same substantially parallel thereto.

1,386,602. MOLD AND APPARATUS FOR MAKING U-PACKING. THOMAS CROSSETT, New York, N. Y. Original application filed May 29, 1919, Serial No. 300,652. Divided and this application filed Feb. 10, 1920. Serial No. 357,655. 7 Claims. (Cl. 18—35.)



1. A mold for forming U-packing comprising an inner member and two separate concentric rings of different diameter to fit one within another with a space therebetween, both rings being of greater diameter than said member to receive folded material respectively between the member and inner ring and between the two rings, an abutment adapted to oppose said member and the inner ring, and means to detachably apply said abutment to said member with the material therebetween.

1,386,603. VULCANIZING-PRESS. ROBERT H. CRUMLICH, Erie, Pa. Filed Jan. 24, 1921. Serial No. 439,503. 6 Claims. (Cl. 18—17.)

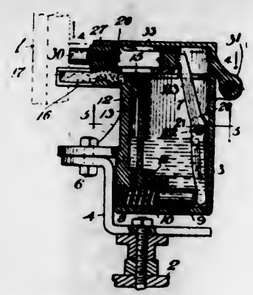


1. In a vulcanizing press, the combination of a vulcanizing chamber; a ram in the chamber; a removable cover on the chamber; a core supplying air pipe carried with the ram; and a supply connection for said pipe extending through the cover comprising a slip joint.

1,386,604. LUBRICATING DEVICE. CHARLES G. CUNNINGHAM, New York, N. Y., assignor to Elevator Supplies Co., Inc., a Corporation of New Jersey. Filed Mar. 29, 1917. Serial No. 158,213. 3 Claims. (Cl. 184—22.)

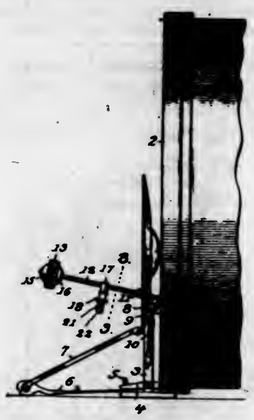
3. A lubricating device comprising a single hollow casting to contain oil, a pump chamber formed in the wall of

said casting and communicating with the hollow portion of said casting, said casting also being provided with a chamber to receive a distributing pad, a duct formed in the casting to provide a communication between said pad and pump chambers, a plunger located in said pump



chamber, a lever pivotally supported in the hollow portion of the casting and bearing at one end against said plunger, means normally tending to yieldably maintain said plunger in retracted position in said pump chamber, and means slidably mounted on the top of said casting for rocking said lever.

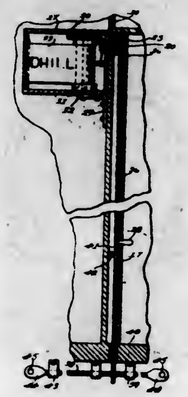
1,386,605. DRUM AND CYMBAL BEATER. ROBERT C. DANLY, Chicago, Ill., assignor to Ludwig & Ludwig, Chicago, Ill., a Corporation of Illinois. Filed Dec. 8, 1919. Serial No. 343,234. 6 Claims. (Cl. 84—422.)



1. In a drum and cymbal beating mechanism, a beater head of fibrous material, a carrying stem, a pair of concavo-convex holding washers engaging opposite sides of said beater head, and means for fixedly attaching said washers to said stem.

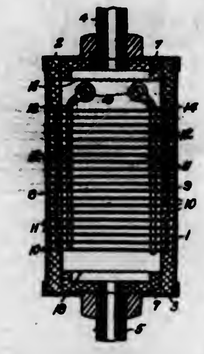
1,386,606. RAILROAD-STATION INDICATOR. TERENTIE DAVIDENIA, Detroit, Mich. Filed July 14, 1920. Serial No. 396,151. 2 Claims. (Cl. 40—106.)

1. Mechanical operating means for the street or station indicators on each car of a train of cars comprising a partition wall in spaced relation to the end wall of a car, and provided with an opening, horizontal shafts journaled in the end wall and the partition wall of the car, sprocket wheels on two of said shafts, a chain guided over said sprocket wheels, a sprocket wheel on the third and central of said shafts, a sprocket wheel on a shaft journaled in a bracket at the car bottom, a chain guided over the last named two sprocket wheels, means for operating said



sprocket wheels and chains, and means for coupling the shafts at the bottom of each car with the shaft at the bottom of the next succeeding car.

1,386,607. ELECTRIC WATER-HEATER. ADRIEN FRAPPIER DE RAIGNAU, Montreal, Quebec, Canada. Filed Oct. 4, 1920. Serial No. 414,570. 3 Claims. (Cl. 219—39.)

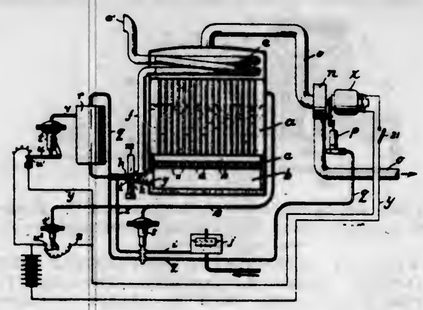


1. An electric water heater comprising a wooden casing covered on its inner side with an impermeable coating; a water inlet and outlet in said casing; a plurality of heating elements, each consisting of a single plate of conductive material disposed in parallel relation to one another and secured in the sides of said casing; a water opening intermediate of each of said plates arranged in staggered arrangement in relation to one another, adjacent one edge thereof; and means to electrically connect said plates in batteries, substantially as described.

1,386,608. SYSTEM FOR STEAM-DRIVEN MOTOR-VEHICLES. FRANCIS I. DU PONT, Wilmington, Del., assignor to Delaware Chemical Engineering Company, Wilmington, Del., a Corporation of Delaware. Filed June 27, 1919. Serial No. 307,103. 19 Claims. (Cl. 158—29.)

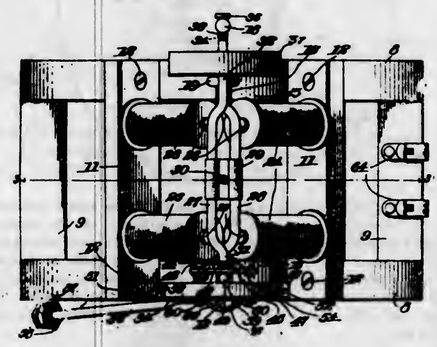
1. In a system for steam driven motor vehicles, the combination with the boiler and the combustion chamber, of means to supply a fuel mixture to the combustion chamber, a pilot light for igniting the mixture, means to start

the supply of the fuel mixture, means governed by the pressure of steam in the boiler to shut off the supply of



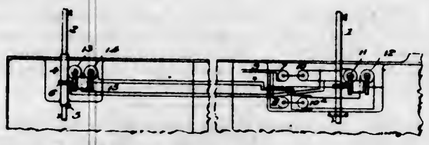
fuel mixture, and means to create a forcible draft through the combustion chamber and flues and cleanse them of gas after the supply of fuel mixture is shut off.

1,386,609. DIRECT-CURRENT ELECTRIC MOTOR. ALF L. ELDEN, Alvarado, Minn. Filed Aug. 24, 1918. Serial No. 251,260. 1 Claim. (Cl. 172—36.)



An electric motor having electric circuit means, electromagnets therein, an armature coöperating with the magnets, said armature having a shaft provided with an outwardly extending portion to provide an arm, a separate arm spaced from said arm, a clamp to join said arms, said arms coöperating with the magnets, a commutator on the shaft, and said commutator being in the electric circuit means.

1,386,610. APPARATUS FOR MEASURING DISTANCES. HANSON E. ELY, Jr., U. S. Navy. Filed June 24, 1918. Serial No. 241,485. 6 Claims. (Cl. 33—66.)



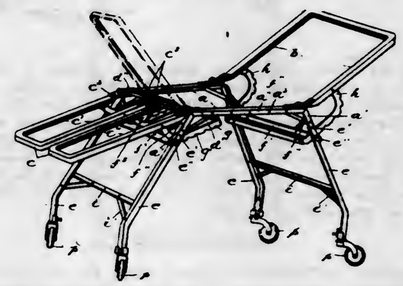
1. In an apparatus for measuring distances, a plurality of pivotally mounted sighting instruments adapted to be directed toward a target, means for connecting said instruments for moving them on their own axes in parallelism and mean for moving one of said instruments out of parallelism with the other.

1,386,611. TELESCOPE. HANSON E. ELY, Jr., U. S. Navy. Filed Apr. 21, 1919. Serial No. 291,431. 1 Claim. (Cl. 88—32.)



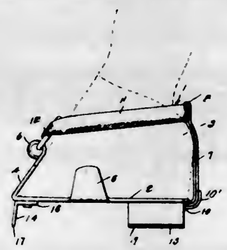
In a sighting instrument, transparent means mounted therein, a plurality of cross hairs thereon, each cross hair having a portion tapering toward the center to invisibility and terminating short of the center thereof in order to provide a clear field of vision.

1,386,612. FOLDING BED AND/OR CHAIR. KALIL FARAH, Brooklyn, N. Y. Filed Sept. 17, 1920. Serial No. 410,839. 3 Claims. (Cl. 155—29.)



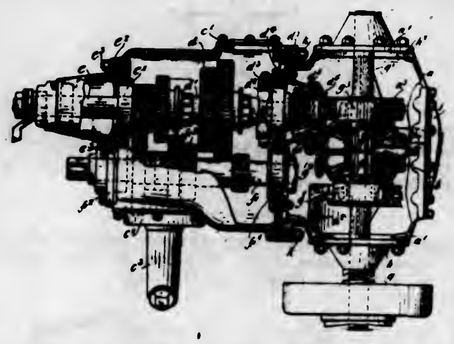
1. The hereindescribed device comprising end and middle mattress sections hingedly connected, the middle section comprising rigid side bars having integral rigid downwardly-inclined members at each end thereof, rigid cross braces secured to the extremities of said members and gravity racks pivoted to the end sections engaging with the cross braces.

1,386,613. HORSESHOE. HERMAN A. FREY, Savoy, Ill. Filed July 26, 1919, Serial No. 313,487. Renewed Jan. 5, 1921. Serial No. 435,252. 2 Claims. (Cl. 168—18.)



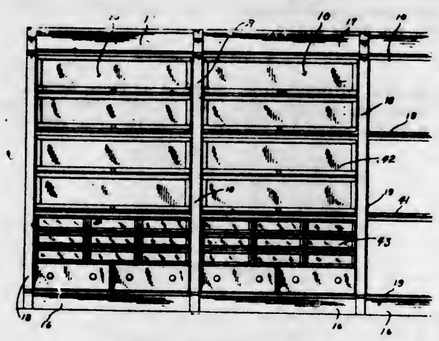
2. A horseshoe comprising a substantially flat plate arranged to engage the lower surface of a horse's hoof, a tongue extending upwardly from the forward portion of the plate and having its upper end portion extended to form an eye, a ring loosely carried by said eye, tongues extending from the side portions of the plate, a strap bent back upon itself to provide a loop and connected with the rear portion of the plate and arranged to engage the rear portion of a horse's hoof, and an adjustable strap carried by said loop and arranged to encircle the upper portion of a horse's hoof with one end portion extending through said ring.

1,386,614. **FINAL DRIVE FOR MOTOR-VEHICLES.** MAXIMILIAN C. PRINS, New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 24, 1920. Serial No. 412,322. 5 Claims. (Cl. 74—58.)



1. In motor vehicles, a differential housing, a gear case, a differential gear mounted entirely within its housing, a driven shaft within the gear case having sliding gears thereon and extending through the end wall to receive a driving pinion, means to secure the housing to the gear case and means coöperating with the housing and case to center them with respect to said shaft so that the drive pinion is brought into mesh with the differential gear upon assembling.

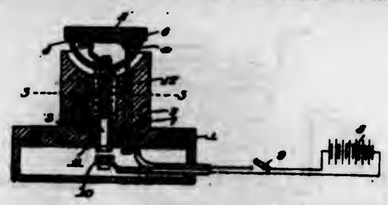
1,386,615. **INTERCHANGEABLE-UNIT STORE FURNITURE.** ALFRED GACH and GEORGE WILCOX, Detroit, Mich., assignor to The Interchangeable Wall Case Company, Detroit, Mich., a Corporation of Michigan. Filed June 14, 1920. Serial No. 388,872. 10 Claims. (Cl. 45—78.)



1. In a store furniture construction, the combustion of a casing, a plurality of guides carried by the casing, a plurality of interchangeable units slidably carried by the guides, and means for detachably engaging said units to hold the same in position against accidental displacement.

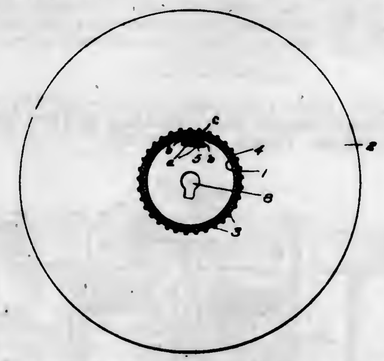
1,386,616. **CIGAR AND CIGARETTE LIGHTER.** FELIX GRANDICH, New York, N. Y. Filed Nov. 18, 1919. Serial No. 338,872. 1 Claim. (Cl. 219—32.)

A cigar or cigarette lighter comprising a base, a tubular upright carried thereby, a spring plunger located in the tubular upright, a semi-spherical head of non-conducting material connected with the upper end of the spring plunger, a resistance coil carried by said head, a contact in



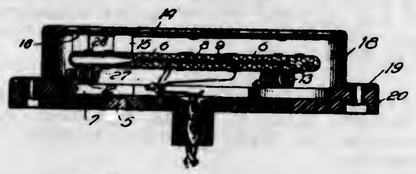
the base and located below the lower end of the plunger and an electric circuit including said contact and the coil.

1,386,617. **ATTACHMENT FOR FLEXIBLE REEL-COVERS.** LESTER S. GUNDERMAN, Pittsburgh, Pa. Filed Dec. 31, 1920. Serial No. 434,526. 4 Claims. (Cl. 242—74.)



1. The combination with a winding drum and a flexible cover therefor, of a slot in the periphery of the drum, and transverse rearwardly undercut elastic ribs attached to the inner side of the flexible cover at its ends, said ribs being adapted to extend through the slot in the periphery of the drum into the interior thereof, the breadth of the two ribs taken together being greater than that of the slot.

1,386,618. **THERMOSTAT.** WILLIAM G. HARTWIG, Chicago, Ill., assignor to Railway Utility Company, Chicago, Ill., a Corporation of Illinois. Filed July 11, 1918. Serial No. 244,495. 8 Claims. (Cl. 297—8.)



1. A thermostat comprising a base, a metal cover, secured to the base and forming a substantially closed chamber therewith, a thermostatic element mounted in said chamber and a heat conducting element in contact with the cover and with the thermostat element.

1,386,619. **SEALED METALLIC RECEPTACLE.** HENRY E. HASTINGS, WALTER L. FARLEY, and ALBERT F. SULZER, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed June 20, 1918. Serial No. 241,062. 6 Claims. (Cl. 220—58.)

1. A closed metallic container with a smooth exterior between one end and the body portion of which is a continuous weakened line along which the end portion may be readily separated from the body portion, there being a strip attached to the end portion and extending length-

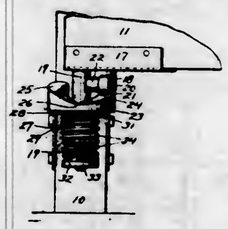


wise of the container, so that when the end portion is separated from the body portion, except for this strip, it may be used as a handle to pull the strip from the body portion and thus open the container longitudinally.

1,386,620. **COMPOSITION FOR SEALING CANS AND THE LIKE THAT CONTAIN PERISHABLE FOODS.** ISABEL HOTSON-TAIT, Sydney, New South Wales, Australia. Filed Nov. 8, 1919. Serial No. 336,715. 1 Claim. (Cl. 106—8.)

A preparation for sealing tins and the like consisting of a mixture of resin, methylated spirit, carbonate of iron, flour paste, molasses, and nitric acid.

1,386,621. **SELF-CLOSING HINGE.** ARTHUR SHERIDAN HUGHES, Mansfield, Ohio. Filed July 7, 1920. Serial No. 394,437. 17 Claims. (Cl. 16—163.)



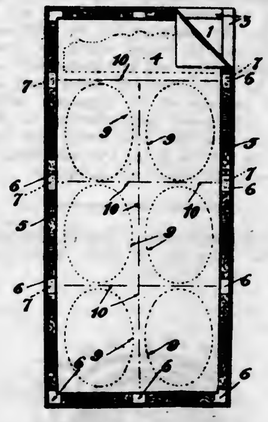
2. A hinge structure including a member adapted to be secured upon the lower edge of the door, a roller mounted on and carried by said member, and a block providing a track for the roller, said block being adjustable in various angular positions about its center to adjust the neutral position of the door.

1,386,622. **PROCESS AND A DEVICE FOR SHORTENING THE TIME USED IN REMOVING THE DEBRIS OFF THE TRACK ON DRIVING HEADINGS.** ALBERT HUGUENIN, Zurich, Switzerland. Filed Feb. 24, 1920. Serial No. 360,900. 10 Claims. (Cl. 262—4.)



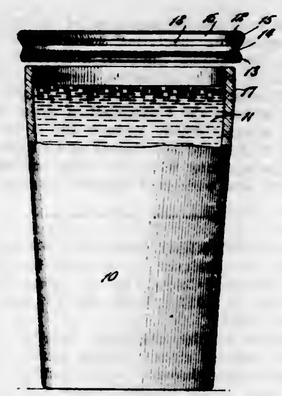
1. The process, which comprises covering the part of the track immediately behind the working face by cover plates before igniting the charges, and clearing the track by bringing the plates into such an inclination, that the debris piled up on the plates by the explosive charges glide off said plates to the sides of the track, thereby allowing the rock-boring machine to be brought up to the face and to continue work almost immediately after the blasting.

1,386,623. **DISPLAY DEVICE.** ALBERT E. HURST, New York, N. Y., assignor to Textile Publishing Company, New York, N. Y., a Corporation of New York. Filed Apr. 26, 1921. Serial No. 464,561. 1 Claim. (Cl. 211—84.)



An article of the class described comprising a penetrable display board of substantial thickness, a face therefor, fasteners for securing the face to the board and marginal spaces in said face adapted to receive said fasteners.

1,386,624. **CLOSURE FOR JARS, BOTTLES, AND OTHER RECEPTACLES.** ALFRED INGRAM and HARRY INGRAM, Brooklyn, N. Y., assignors to Ingrams Incorporated, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 5, 1917. Serial No. 194,839. 4 Claims. (Cl. 215—81.)



1. A container having substantially vertical smooth exterior rigid side surfaces about its upper end, and a closure therefor and constructed with relation thereto, comprising a cap having a top and a depending annular flange adapted to fit over the container and in one trans-

verse section having an inwardly curved resilient portion defining a diameter less than that of the container and adapted to firmly grip the smooth side surfaces thereof, and a ring gasket within the upper outer edges of said cap to engage with sealing effect the upper side surfaces of the container above said gripping portion of said flange, said cap at its upper outer edges beyond the vertical plane of the sides of the container being annularly outwardly and then inwardly curved to form an annular recess to receive said gasket and afford a supporting shoulder therefor at the lower edge thereof, and said gasket in its initial position being supported at an angle on said shoulder and not filling said recess and with one annular portion standing within the vertical plane of the upper outer edges of the container so that when a cap is applied to position on the container its top will seat on the upper edge thereof, the upper end of the container will pass through the gasket and said gasket will be deformed laterally to fill said recess and firmly bind against the exterior side surfaces of the container below the lip thereof, and said gasket then affording an efficient side seal and at the same time coöperating with the inwardly curved gripping portion of the aforesaid flange below the same in securing the cap on the container.

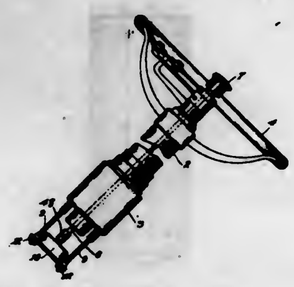
1,386,625. ICE-MACHINE. JAMES B. JOHNSTON, Philadelphia, Pa. Filed May 8, 1918. Serial No. 233,231. 5 Claims. (Cl. 127—24.)



1. An ice machine, having an outer vacuum chamber, a chamber containing insulating material and located inwardly of the vacuum chamber, a freezing chamber located inwardly of the insulating chamber, a tank in said freezing chamber, a closure having a plurality of superimposed chambers, the lower wall of which is apertured to permit communication between the freezing chamber and lower chamber of the closure and vacuum producing means communicating with the upper end of said freezing chamber and with said vacuum chamber.

1,386,626. ELECTRICAL SWITCH. WILLIAM KAISLING, Chicago, Ill., assignor to Kellogg Switchboard and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 21, 1917. Serial No. 163,563. 2 Claims. (Cl. 200—59.)

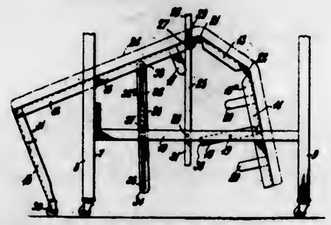
1. A device of the character described including a cylindrical member, circuit closing means, an actuating element extending through said cylindrical member for operating said circuit closing means and provided with a reduced portion, an enlarged cup-shaped portion for the inner end of said actuating element, a contact actuating member located partially within said cup-shaped member but insulated therefrom, an operating button or cap provided with an aperture adapted to receive the reduced portion of said actuating element, and fastening means extending through said cap and said actuating element to secure said cap to said actuating element, said actuating cap having its outer periphery extending around said cylindrical member to prevent foreign matter from entering said cylindrical member.



1,386,627. CONFECTION FOR USE AS A CHEWING-GUM. FRANK Y. KEATOR, Aurora, Ill., assignor of one-half to Haskell C. Davis, Evanston, Ill. Filed Apr. 22, 1918. Serial No. 229,917. 3 Claims. (Cl. 99—11.)

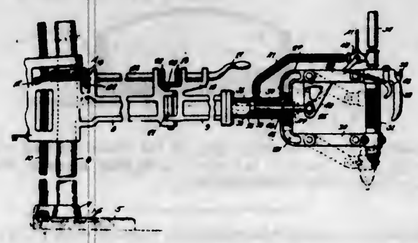
1. A confection for use as a chewing gum, containing chicle, and acid calcium phosphate in combination with an enzym as pepsin.

1,386,628. FOLDING-BED STRUCTURE. THOMAS J. KELLY, Philadelphia, Pa. Filed Nov. 4, 1920. Serial No. 421,631. 2 Claims. (Cl. 5—46.)



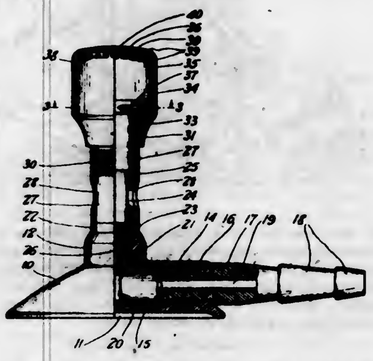
1. A structure of the character described including a main frame; a bed supporting frame having a front section, a rear section and an intermediate section in which the intermediate section is hinged both to the front section and to the rear section, said rear section having portions pivoted to the side of said main frame; means for swinging said rear section on said pivots whereby the sections can be moved into a common plane and can also be swung into a folded position with the rear section under the front section; pins secured to the sides of said main frame; and links pivotally connected to said front section forward of its hinges, said links having undercut slots through which said pins freely extend whereby when the parts are in said folded position the front section can be raised on its hinge connection with the intermediate section as a pivot, said movement serving to bring the undercut portions of the slots over said pins so as to retain said front section in its raised position; substantially as described.

1,386,629. TOOL-SUPPORT. ALBERT L. KRAN, Aurora, Ill. Filed June 12, 1920. Serial No. 388,471. 6 Claims. (Cl. 78—48.)



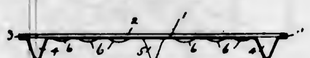
1. A tool support having a post, a bracket supported by and pivotally and longitudinally movable relative to said post, a tool carrier pivotally mounted on said bracket, and an air operated piston for moving said carrier to apply and hold the tool to the work.

1,386,630. BUNSEN BURNER. CHARLES T. KINSMAN, Binghamton, N. Y. Filed June 7, 1920. Serial No. 386,964. 8 Claims. (Cl. 158—111.)



1. In a burner of the type described, the combination with a burner tube, of a mixing chamber having a convex top containing a plurality of perforations adapted to act as outlets, means for detachably engaging said chamber to said tube, said chamber having a sectional area of greater magnitude than the tube, and a plurality of tangentially disposed pins fixed in said chamber adapted to intercept a passing stream of gases to deflect and intimately commingle the same.

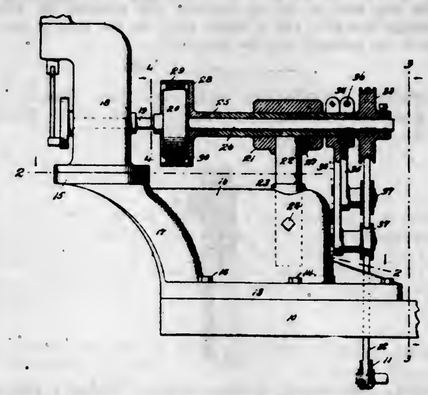
1,386,631. TALKING-BOARD TABLE. ROBERT M. KLIEMANT, Baltimore, Md. Filed June 9, 1920. Serial No. 387,616. 3 Claims. (Cl. 46—41.)



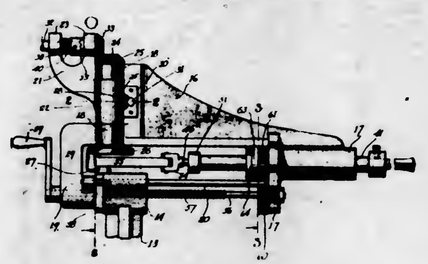
1. A talking board table having an annular bead on the edge thereof, integral cone shaped hollow legs projecting from each end and from the sides thereof.

1,386,632. SEWING-MACHINE DRIVE. JOSEPH KORNAS, Linden, N. J., assignor to Feldman Machine Works, Inc., a Corporation of New York. Filed Sept. 9, 1918. Serial No. 253,130. 14 Claims. (Cl. 74—21.)

2. In a device of the class described, the combination of a standard, a vertically shiftable shaft bearing carried by said standard, means for securing the bearing in shifted position, a drive shaft mounted in said bearing, means for driving said shaft and clutching means actuated by said shaft for engaging and rotating a machine element driven thereby, said clutching means being designed to engage the periphery of different size pulleys.

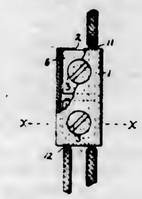


1,386,633. ROCK-DRILLING MACHINE. ROBERT A. W. KRAMPITZ, Valdez, Alaska. Filed Feb. 12, 1920. Serial No. 358,247. 5 Claims. (Cl. 255—37.)



1. A rock drill of the character described comprising a main frame having a longitudinal bearing at its forward end and spaced vertical bearings at its rear end, an auxiliary swinging frame having a vertical bearing alined with and adapted to be disposed between the spaced vertical bearings of said main frame, a crank shaft mounted in the vertical bearings of said frames and constituting the axis of swing of said auxiliary frame, means for imparting motion to said crank shaft, a drill stock mounted for reciprocatory motion in the longitudinal bearing of said main frame, and means connecting said crank shaft and said drill stock.

1,386,634. CONNECTOR FOR ELECTRIC WIRES. EDWARD H. KRUSE, Fort Wayne, Ind. Filed Sept. 19, 1919. Serial No. 324,738. 3 Claims. (Cl. 173—263.)



2. In a device for connecting wires, an open-ended box the bottom thereof having parallel gutters therein and an

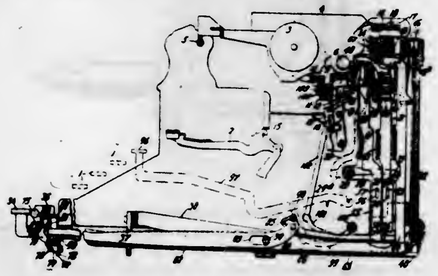
intervening slot, a pair of screws extending through the top of the box and each having a stud adapted to extend into the slot so as to obstruct the removal of wire through the slot, and a clamp plate on the stud of each screw for holding wire in the gutters.

1,386,635. DUSTBRUSH FOR PENCILS. EUGENE C. KUBIK, St. Louis, Mo. Filed July 26, 1919. Serial No. 313,456. 7 Claims. (Cl. 120—38.)



2. In combination, a hollow support having a lateral indentation forming an inner projection, a holder having a shank disposed within the support and receiving the same inner projection, an elastic plug closing the end of the support and retaining the said shank in the required position and brushing elements carried by the holder.

1,386,636. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Nov. 25, 1918. Serial No. 263,975. 45 Claims. (Cl. 197—177.)



1. In a typewriting machine, the combination with a paper-carriage and feeding mechanism therefor, of a rack on said paper-carriage having means whereby column-stops may be adjustably positioned thereon, column-stops of different conformation corresponding to different columns mounted on said rack, a secondary carriage movable transversely of the machine, a rocking frame having pivotally mounted thereon a series of pawls arranged to co-operate with column-stops of suitable conformation, a movable stop member mounted upon said secondary carriage and connected with said rocking frame, so that, upon engagement of one of said pawls by a column-stop and consequent movement of said rocking frame, said movable stop will be moved into position to engage a column-stop on said rack and arrest the paper carriage, means to position the secondary carriage to correspond to the denomination selected, and means to selectively position said pawls.

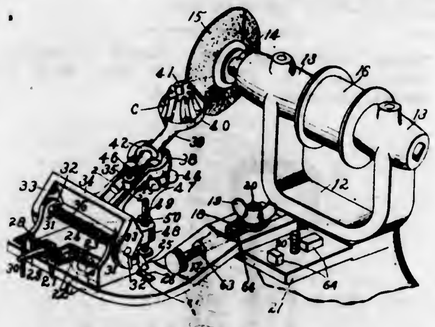
1,386,637. FOOTWEAR. LOUIS TROLLE, Racine, Wis., assignor to Eugene Wright Lawton, Racine, Wis. Filed June 5, 1920. Serial No. 386,895. 3 Claims. (Cl. 36—1.)

1. In an article of footwear, the combination of a sheet metal bottom comprising a sole and an upright flange along the edge thereof, an upper extending down within the flange of the bottom, a reinforcing strip of leather



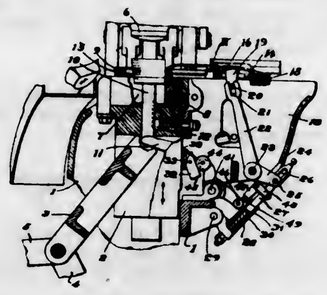
extending along the inner side of the lower edge of the upper, and clenched fasteners extending through the flange, upper and reinforcing strip.

1,386,638. GRINDING-MACHINE FOR ROTARY CUTTERS. HENRY M. LOOMER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 20, 1919. Serial No. 331,887. 18 Claims. (Cl. 51—225.)



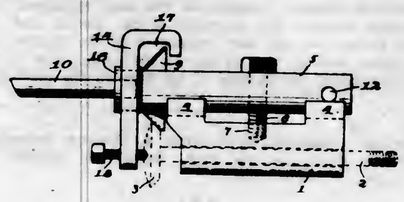
1. In a machine for grinding rotary cutters, an arm, a cutter support angularly and longitudinally adjustable on the arm, means for retaining the cutter support in its position of longitudinal adjustment and means for preventing disturbance of the angular adjustment when altering the longitudinal adjustment.

1,386,639. HEEL-COMPRESSING MACHINE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 26, 1919. Serial No. 306,868. 10 Claims. (Cl. 12—48.)



1. In a compressing machine, the combination of opposed compression members movable relatively toward and from each other to compress and release a blank, blank feeding means, and additional means acting through the blank feeding means during the relative separating movement of the compression members to delay the insertion of a blank between said members.

1,386,640. VALVE SEATER AND TRIMMER. JOSIAH W. MCGUIGAN and WESLEY C. ROY, Dearborn, Mich. Filed Apr. 30, 1920. Serial No. 377,998. 4 Claims. (Cl. 82—1.)



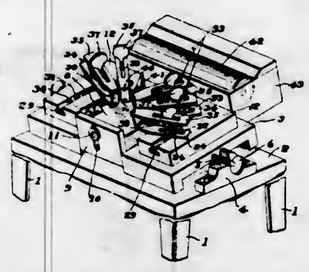
1. A valve seater or trimmer comprising a body member, valve holding or clamping means, means connecting said body member and clamping means, a cutter blade in said body member, and means for adjusting the valve with respect to the cutter when in position within said clamping means.

1,386,641. LOCK. MICHAEL MARINO, New York, N. Y. Filed Sept. 8, 1919. Serial No. 322,278. 1 Claim. (Cl. 70—75.)



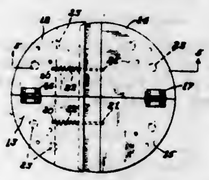
A lock comprising a keeper, a housing, a latch pivotally mounted within the housing and adapted to engage the keeper, a sliding bar for operating the latch, a knob provided with a cam, means for advancing and retracting the bar upon the turning of the knob and means for advancing and retracting the bar by a key, said means including a plurality of alined sweeps on the bar, the cam coöperating with one sweep and the key with another, and a detent provided with a pair of cam surfaces for coöperation respectively with the handle cam and the key.

1,386,642. HEEL-BUILDING MACHINE. RALPH S. MEGATHLIN, Somerville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 1, 1919. Serial No. 314,711. 11 Claims. (Cl. 12—50.)



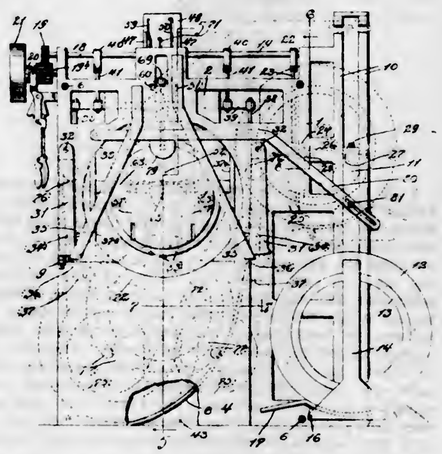
1. In a heel building machine, the combination of a support for a pile of heel lifts, heel plates arranged about a central forming space and extending in a direction heightwise of a pile of lifts on said support, means for adjusting the inclination of the plates relative to the surface of the support, and means for adjusting the heel plates to different positions about the forming space.

1,386,643. MEAT-ROASTER. NESTOR MIRONCHUK, New York, N. Y. Filed June 24, 1920. Serial No. 391,283. 4 Claims. (Cl. 53—1.)



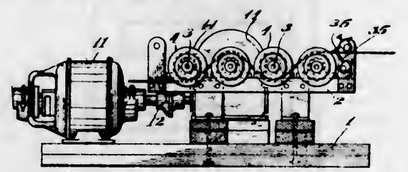
1. A device of the class described comprising a plate divided into quadrantal sections, the sections on opposite sides of a given diametrical line being hinged to one another, each pair of hinged sections being adjustable as a unit toward and away from the other pair of hinged sections.

1,386,644. MACHINE FOR REMOVING CORES FROM PNEUMATIC-TIRE CASINGS. NICHOLA YOSIFF MOMITSA, Crestline, Ohio. Filed Nov. 1, 1920. Serial No. 421,057. 20 Claims. (Cl. 18—2.)



1. A machine for removing cores from tire-casings including, in combination, means for holding a core with a casing thereon, means for delivering cores with casings thereupon to the holding means, and means for automatically separating the casing from the core.

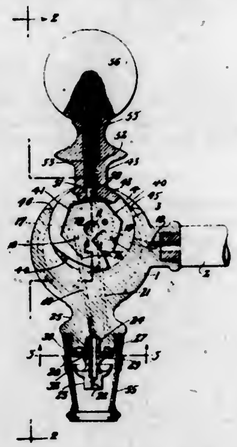
1,386,645. ELECTRICALLY-HEATED STRIP AND WIRE TEMPERING AND ANNEALING DEVICE. WILLIAM E. MOORE, Beaver Falls, Pa., assignor to The Pittsburgh Engineering Works, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 23, 1919. Serial No. 325,698. 19 Claims. (Cl. 148—10.)



1. An annealing and tempering device comprising a holder for a metal strip, means for drawing the strip from the holder, means for passing an electric current

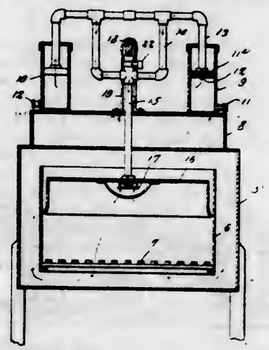
through a portion of the strip while in transit, whereby said portion is heated, and means for automatically varying the speed of transit in accordance with the heating requirements.

1,386,646. FAUCET. WILLIAM MORLOK, Philadelphia, Pa., assignor to L. A. Prouty Company, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 24, 1920. Serial No. 426,116. 9 Claims. (Cl. 225—25.)



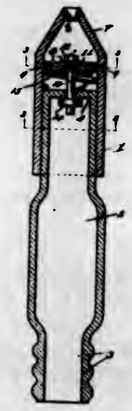
1. In a faucet, the combination of a body member having a circular recess therein, the opposite sides of which are practically flat and the said recess being situated eccentrically of the said body member, and an opening from the adjacent surface of said body member leading into the said recess, the length of said openings being less than the diameter of the said recess, a lever having a practically flat sided head portion which is situated in said recess, the periphery of said head comprising circular and flattened portions whereby the said head may be removed through said opening, the said lever and a portion of the said head projecting outwardly through said opening, a valve supported upon the said head portion, and means for rotatably securing the said valve and the head portion within the said recess.

1,386,647. DRY-CLEANING APPARATUS. ALBERT T. NEWMAN, Emporia, Kans. Filed Sept. 17, 1918. Serial No. 254,444. 1 Claim. (Cl. 68—37.)



In a cleaning apparatus, a casing, a holder for fabric, the said holder having a foraminous bottom, a pounder adapted to reciprocate with relation to the holder, a hollow pitman carrying the pounder and communicating with the interior thereof, means for supplying air to the pitman comprising cylinders having air admission valves, apertured pistons operating in the said cylinders, connections between the apertures of the pistons and the said pitman whereby air compressed in the cylinders is delivered through the pitman to the holder, and valves for controlling the passage of air through the pitman.

1,386,648. GREASE-GUN. OTIS S. NEWTON, Columbus, Ohio. Filed Jan. 10, 1919. Serial No. 270,479. 1 Claim. (Cl. 226—128.)



A grease gun comprising a barrel member capable of receiving a flowing lubricant, said member having a restricted valve opening formed in its outlet extremity, a nozzle section slidably carried by the outlet extremity of said barrel member, said section being formed to include an orificed or conical discharge end which is positioned in spaced relationship from the outlet extremity of said barrel member, a spanner element rigidly positioned within said nozzle section and located intermediately of the discharge ends of said barrel member and nozzle section, a valve stem rigidly connected with said spanner element and arranged to project through the outlet opening of said barrel member, a valve formed with said stem and arranged to control the flow of a lubricant through said opening, and a spring acting between said spanner element and the discharge end of said barrel member and normally serving to maintain said valve in such position as to obstruct the flow of lubricant through said opening.

1,386,649. FIRE-ALARM APPARATUS. STEFAN NIKIEL, New York, N. Y. Filed Sept. 18, 1919. Serial No. 324,515. 1 Claim. (Cl. 200—142.)



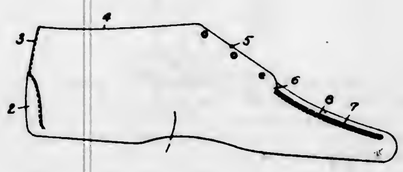
In a circuit closer of the character described, in combination, a metal casing, a central contact button in said casing insulated therefrom, a contact arm, a contact on said arm, a disk of low fusing metal in said casing having a central slot and adapted to be normally engaged by the end of said arm, and a spring adapted to draw both contacts into engagement upon the fusing of said disk, disengaging said arm therefrom for closing a signal circuit.

1,386,650. SEPARATOR FOR STORAGE BATTERIES. PAUL E. NOZAIS, Pittsburgh, Pa., assignor to Westinghouse Union Battery Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Mar. 10, 1920. Serial No. 364,660. 9 Claims. (Cl. 204—29.)



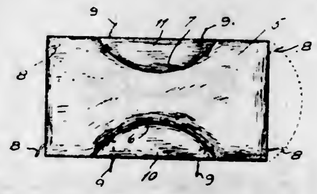
1. A storage battery separator comprising a frame of comparatively rigid material and a sheet of woolen material supported by said frame.

1,386,651. BOOT AND SHOE. FRANCOIS PAGEAU, Montreal, Quebec, Canada. Filed Apr. 24, 1920. Serial No. 376,331. 1 Claim. (Cl. 36—1.)



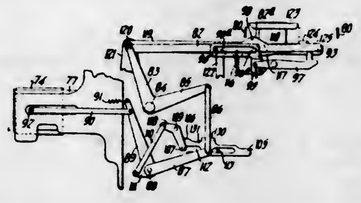
A one-piece boot or shoe, comprising a sole provided at its forward end with a wedge-shaped tongue, the narrow end of which is integrally connected to the sole; and an upper, also integral with the sole, extending at each side of the sole uninterrupted by transverse seams from toe to heel, the forward portions at opposite sides of the upper having outwardly curved edges between which said tongue is bent backward so as to unite therewith in forming the toe of the shoe; the said curved edges and the adjacent edges of the tongue being stitched directly together and terminating short of the tip of the toe at their forward ends.

1,386,652. PILLOW. JOHN EDWARD PATTON, New York, N. Y. Filed Jan. 20, 1921. Serial No. 438,578. 2 Claims. (Cl. 5—15.)



1. A pillow comprising a main body portion having recesses in its opposite longitudinal sides, cushions adapted to fit the recesses and means for removably securing said cushions in place.

1,386,653. COMBINED TYPEWRITING AND COMPUTING MACHINE. HENRY L. PITMAN, East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Jan. 17, 1918. Serial No. 212,213. 71 Claims. (Cl. 235—59.)



1. The combination with a typewriter carriage, of a cross-totalizer, means to cause said cross-totalizer to travel intermittently with said carriage, back-spacing means for said carriage, and means for rendering said back-spacing means effective so that said cross-totalizer may be re-positioned thereby, relatively to said typewriter carriage.

33. The combination with a typewriter carriage, of a cross-totalizer, means to cause the cross-totalizer to travel intermittently with said carriage, back-spacing means for said carriage, means controlled by the typewriter carriage when it is backed, substantially into a computing zone, to render said back-spacing means effective, to reposition said cross-totalizer relatively to said typewriter carriage, numeral keys, and means for rendering said numeral keys ineffective when said carriage is moved, as above stated, without the aid of the back-spacing means.

54. The combination with a main carriage, of a sub-carriage, means to cause said sub-carriage to travel intermittently with said main carriage, back-spacing means for said main carriage, numeral keys, locking means for said numeral keys, a normally-ineffective connection from said back-spacing means to reposition said sub-carriage, and means for simultaneously rendering said connection and said locking means effective.

1,386,654. METHOD OF MAKING SHOES. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 8, 1919. Serial No. 322,524. 14 Claims. (Cl. 12—142.)

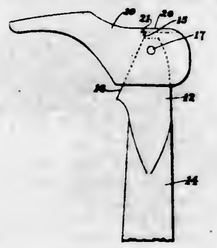
13. That improvement in the art of making shoes which comprises preparing a form having top and bottom parts, the bottom part having substantially the shape of a last and the top part having a shape different from

the top portion of a last, shaping a blank to the bottom portion of the last, binding the blank to the form along lines adjacent to the line of separation of the top and bottom parts, removing the top part, trimming the mar-



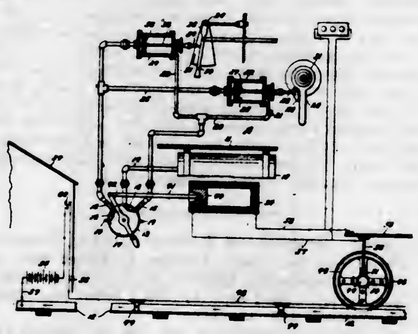
gin of the blank, replacing the top part by a part having a shape to constitute, with the bottom part, the shape of a complete last, assembling on the last shoe parts necessary to complete the shoe, and uniting by a seam said parts to the blank shaped on the bottom part.

1,386,655. **WORK-SUPPORT FOR SHOE-LEVELING MACHINES.** EDWIN N. PREBLE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 4, 1919. Serial No. 274,979. 3 Claims. (Cl. 12—123.)



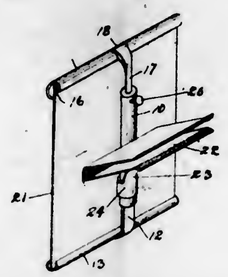
2. A work support for shoe leveling machines comprising a cast metal follower having a parallel sided slot in the heel end and a recess formed in the face of the follower extending about the upper edges of the slot, and a metal plate supported upon the ledge formed by the recess and having an upper surface flush with the face of the follower to afford a smooth bearing for the shoe bottom at the heel seat.

1,386,656. **TRAIN-CONTROLLING MECHANISM.** EDWARD A. REBOUL, Philadelphia, Pa. Filed Oct. 9, 1919. Serial No. 329,467. 1 Claim. (Cl. 246—74.)



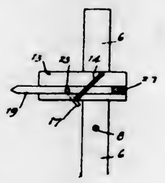
A train control device comprising the combination with the throttle lever and air brake control valve, of a compressed air reservoir, a two-way valve connected with the reservoir, cylinders associated respectively with the throttle lever and brake control valve, pistons within said cylinders connected respectively with the throttle and brake valve, pipes leading from said two-way valve to one end of said cylinders, other pipes leading from said two-way valve to the other ends of said cylinders, a solenoid having a movable core connected with said two-way valve whereby to control the latter, and track carried means for passing a current through the solenoid.

1,386,657. **CARD-HOLDER.** PHILIP H. W. REDFORD, Providence, R. I. Filed May 25, 1920. Serial No. 384,093. 2 Claims. (Cl. 40—16.)



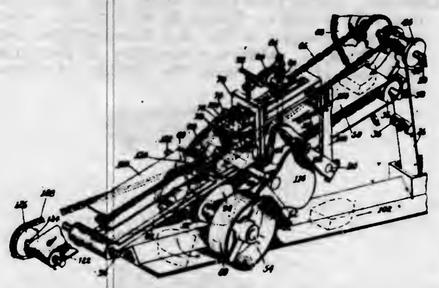
2. A shelf card-holder comprising a pair of channeled cross bars adapted to receive in their channel portions opposite edges of a card, a tubular member extending laterally from one of the bars and a shank extending from the other, said tube and shank being in telescopic engagement and positioned to lie at the rear of the card, means for adjusting the telescoping position of said tube and shank, whereby said cross bars may be adjusted relative to each other, a ring surrounding said tubular member and slidably adjustable thereon, and a resilient clamp secured to said ring for detachably securing said holder to the edge of a shelf.

1,386,658. **BAG-HOLDER.** JAMES SINCLAIR, Bredenbury, Saskatchewan, Canada. Filed Oct. 13, 1920. Serial No. 416,610. 2 Claims. (Cl. 83—26.)



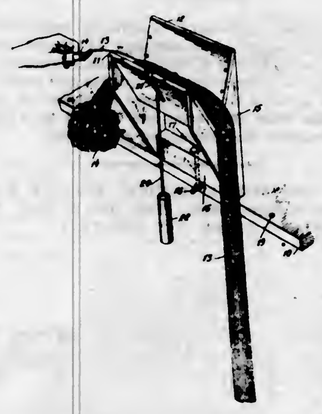
1. In a bag holder in combination, a platform, a pair of vertically extending spaced legs extending upwardly from the rear of the platform, a pair of horizontally disposed side arms having their outer faces vertically channeled and slidably receiving the legs, an inclined deflecting plate extending between and permanently connected to the arms in a location between the legs, an adjusting bolt extending between the legs, a pair of catches extending from the undersides of the side arms in a location in advance of the legs and a pair of horizontally disposed fingers slidably mounted in the side arms and connected together rearwardly and adapted to be projected beyond the forward ends of the side arms.

1,386,659. **HEEL-ARRANGING MECHANISM.** CHESTER C. SMALL, deceased, Newton Highlands, Mass., by Jennie M. Small, administratrix, Newton Highlands, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 16, 1918. Serial No. 254,288. 38 Claims. (Cl. 12—42.)



1. A heel arranging mechanism comprising means for separating heels from an indiscriminate mass, and means for disposing them in orderly arrangement.

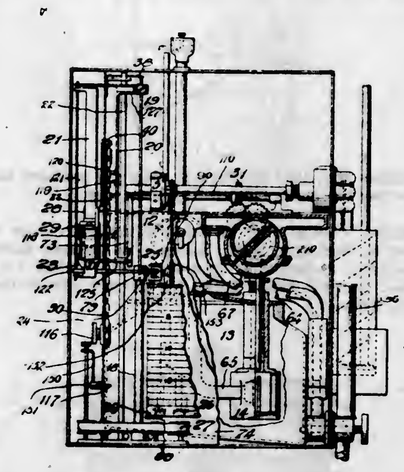
1,386,660. **TIE-KEEPER.** GEORGE C. SNYDER, New York, N. Y., assignor of one-sixth to Frank K. Hoffman and one-sixth to E. Theo. I. Thygeson, New York, N. Y. Filed July 28, 1917. Serial No. 183,224. 4 Claims. (Cl. 211—36.)



4. In a keeper for fastening devices provided with tying cords, the combination of a holding member having diverging walls one of which is provided with a slot, a cord attached to one of the diverging walls and adapted to pass around the tying cords of the fastening devices and through the slot, and a weight on the end of the cord.

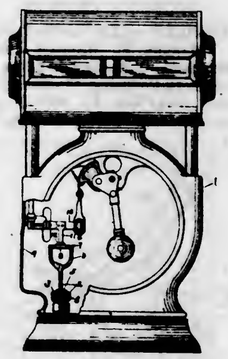
1,386,661. **PRESSURE REGISTERING AND RECORDING DEVICE.** LAURENCE A. STENGER, Denver, Colo. Original application filed Oct. 14, 1918, Serial No. 257,939. Divided and this application filed Apr. 12, 1919. Serial No. 289,601. 5 Claims. (Cl. 234—20.)

1. Pressure recording means comprising an inverted siphon of mercury having one arm open to atmosphere and the other connected to receive the pressure to be recorded, a moving chronologically marked record tablet, a marker arranged to be moved over the record tablet normally out of engagement therewith, electrically operated means operable to cause said marker to momentarily engage the record, electrical contacting means arranged to move in a given ratio to the movement of said marker into contact with the upper surface of the mercury in one of the siphon



arms, and an energizing circuit for said electrically operated means controlled through the contact between the mercury and said contacting means.

1,386,662. **LOCKING DEVICE FOR WEIGHING-SCALES.** EDWARD G. THOMAS, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a Corporation of New Jersey. Filed Oct. 13, 1917. Serial No. 196,515. 14 Claims. (Cl. 265—27.)

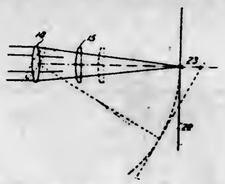


1. The combination with a scale having movable operating parts, of a device arranged adjacent said parts and adapted to engage therewith to restrain said parts against movement when the scale is out of level.

1,386,663. **PROCESS FOR FINISHING AND TESTING LENSES.** FRANK TWYMAN, London, England, assignor to Adam Hilger, Limited, London, England. Filed Feb. 4, 1919. Serial No. 274,843. 9 Claims. (Cl. 88—56.)

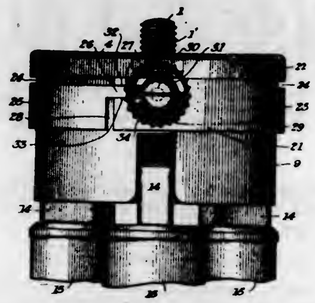
1. The process of testing and finishing lenses which consists in passing axial beams of light through a lens under conditions such that interference rings are produced,

correcting the faults indicated by the interference rings and then passing oblique beams through the lens under



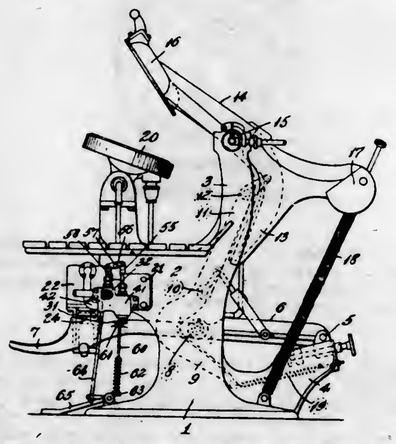
conditions such that interference rings are produced and correcting the faults indicated by these rings.

1,386,664. LOCK FOR TRIPOD-HEADS. WILLIAM C. VAETH, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 24, 1920. Serial No. 433,047. 12 Claims. (Cl. 248—43.)



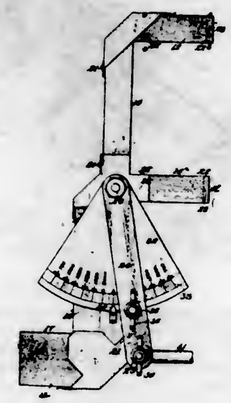
1. In a locking device for tripod heads, the combination with a base, of a tripod head mounted to revolve on the base, and a frictional locking band integral with one of these parts.

1,386,665. PRESSURE ATTACHMENT FOR GARMENT-PRESSES. CHARLES E. WAREAM and CHARLES L. BRALEY, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 12, 1917, Serial No. 154,195. Renewed Dec. 28, 1920. Serial No. 433,738. 22 Claims. (Cl. 68—9.)



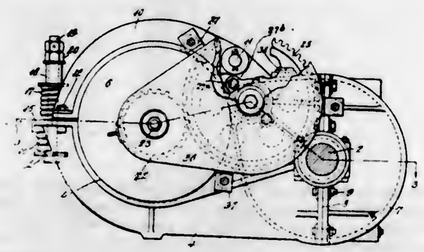
1. In a garment press, a frame, a buck, a press head, means operatable by the operator including a lever for closing the press, and power mechanism ineffective upon said lever during the closing stroke and adapted to cause actuation of said lever to exert a final pressure upon the work after the press is closed.

1,386,666. DIRECTION-INDICATOR AND MEASURING INSTRUMENT. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Dec. 12, 1918. Serial No. 266,389. 8 Claims. (Cl. 88—2.6.)



1. An optical instrument comprising complementary objective and sight tubes arranged in spaced parallel relation to each other in a vertical plane, projecting tubes connecting the complementary objective and sight tubes and means operated by the angular movement of the objective tubes when the latter are focused at a distant object to indicate the distance of said object.

1,386,667. DRIVING MECHANISM. SAMSON D. WRIGHT, Cleveland Heights, Ohio. Filed June 9, 1919. Serial No. 302,773. 7 Claims. (Cl. 105—113.)

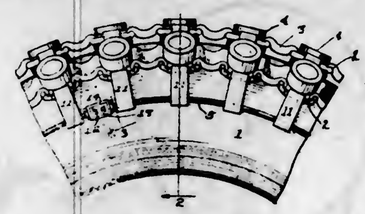


1. In combination, a car having a frame and axle, a hollow casing supported by said frame and axle, a motor in said casing, and driving gears in said casing between said motor and axle, said casing being divided along a vertical plane through the axle for convenient access to the axle gear without disturbing the motor.

1,386,668. NON-SKID TIRE-PROTECTOR. CHARLES E. YOUNG, Akron, Ohio. Filed Feb. 20, 1920. Serial No. 360,249. 7 Claims. (Cl. 152—16.)

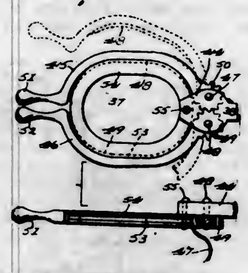
4. In a covering for vehicle tires an annular web made of a plurality of octagonal ring-like members each having alternately disposed long and short sides, each long side of each member being detachably connected to

a long side of a similar member by means of a broad link, each end of said link provided with a laterally extending bore open along the under side to provide a hook



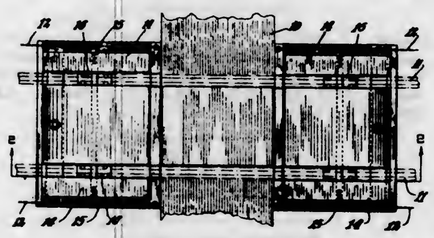
adapted to slide over one of the short sides of said member and engage a long side thereof so that the said long side may be positioned within said bore.

1,386,669. BAG-HOLDER. JOSEPH ZAKARKA, Brooklyn, N. Y. Filed Sept. 15, 1920. Serial No. 410,502. 2 Claims. (Cl. 83—26.)



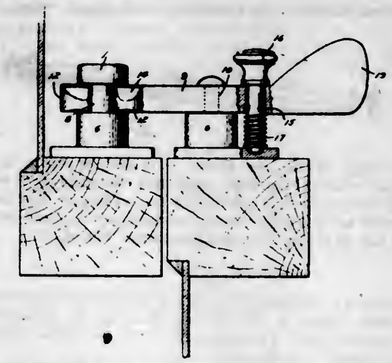
1. In an apparatus of the character described, a bag holding device comprising a post, a hub rotatably secured to said post, a plurality of arms pivotally secured to said hub superposed plates secured to the outer ends of each of said arms, movable clamp elements pivotally secured at their outer ends between said plates, toothed segments in mesh with each other at the outer ends of said clamp elements, and handles at the opposite ends of said clamping elements for allowing a clamping of the same over the material of a bag to hold the same open while it is in the process of filling.

1,386,670. RAILWAY-CROSSING. LIONTI ZURCAN, Stenen, Saskatchewan, Canada. Filed Oct. 16, 1919. Serial No. 331,044. 1 Claim. (Cl. 256—15.)



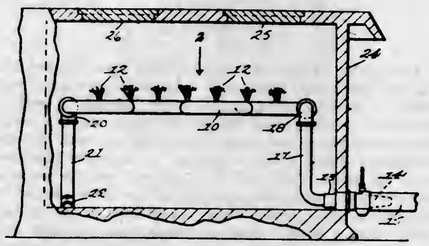
In a cattle guard for railway crossings, the combination of two pits adapted to be placed beneath a railway track at either side of a roadway crossing, covers for said pits pivotally mounted, on central axles journaled in bearings, and adapted to be opened by the weight of an animal stepping thereon, the opening being adequate to permit the animal to pass from the track into the pit and a coiled spring for supporting the edges of the pit covers for preventing the obstruction of the track by said covers.

1,386,671. WINDOW-LOCK. WOJCIECH ZYCH, Elizabeth, N. J. Filed Nov. 19, 1919. Serial No. 339,191. 1 Claim. (Cl. 292—207.)



A window lock catch comprising a pair of plates adapted to be secured to the meeting rails of the upper and lower window sash, a stud integrally made on each plate, a reduced neck on one of said studs, a locking catch pivoted on the other shorter stud, one of said plates having a hole in alinement with said shorter stud, a fork formed on one end of the locking catch, said end being provided with a beveled angular face adapted to engage said reduced neck, said locking catch provided with a hole, a locking plunger slidably arranged in the hole of said catch, a head on said plunger, a spring for normally holding said plunger downwardly with its end engaging the hole in one of said plates when the locking catch engages said reduced neck, and allowing the withdrawal of said plunger end from said hole when the locking catch is disengaged from said reduced neck and turned about its pivot.

1,386,672. GAS-HEATER. ISADORE L. ALTSITZER and MITCHELL LISNOV, Yonkers, N. Y. Filed Oct. 12, 1920. Serial No. 416,532. 4 Claims. (Cl. 158—99.)



4. The combination of a serpentine gas burner pipe provided with a plurality of horizontally-disposed convolutions, with a stove for the reception of said gas burner pipe, elbow sleeves rotatably secured to the ends of said pipe, branch pipes secured with their upper ends to the free ends of said elbow sleeves, a foot part attached to the lower end of one of said branch pipes, an inlet pipe attached to the lower end of the other of said branch pipes, a gas control valve in said inlet pipe, and a nipple adapted for the attachment of a gas supply hose, integral with said inlet pipe.

1,386,673. WHIFFLETREE. CHARLES H. ASBURY, Post Falls, Idaho. Filed Sept. 3, 1920. Serial No. 407,828. 3 Claims. (Cl. 278—95.)

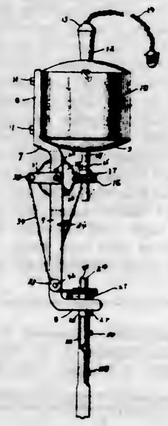
1. The combination with a whiffletree having an opening therethrough, of a bracket having a vertical web to

bear closely against one side of the whiffletree and horizontal flanges extending from the edges of said vertical web to snugly engage the top and bottom of the whiffletree and provided with openings to register with the opening through the whiffletree, side plates rising from



the edges of the top flange, a retaining pin to be inserted through the said registering openings and retain a clevis in operative relation to the whiffletree, and means carried by said side plates and engaging the said retaining pin to prevent vertical movement thereof.

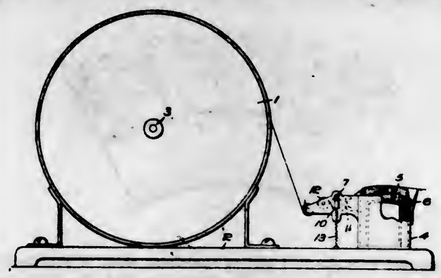
1,386,674. OPERATING DEVICE FOR VALVE-GRINDERS. ARNO B. BAULE and WILLIAM G. KIRCHHOFF, Canton, Ohio. Filed Aug. 29, 1919. Serial No. 320,733. 1 Claim. (Cl. 74—14.)



In a valve grinder, the combination of a bracket having its upper end offset and lower end bent at a right angle, a motor carried by the offset portion, a gear attached to the projecting end of the motor shaft, a second gear mounted by the bracket and meshing with the first mentioned gear, arms extending in opposite directions from the shaft of the second mentioned gear, a revolving grinder shaft vertically mounted in the lower end of the bracket, a drive pulley rigidly attached to the grinder shaft, and a flexible element connecting the said arms with the drive pulley, imparting an oscillating movement to the grinder shaft.

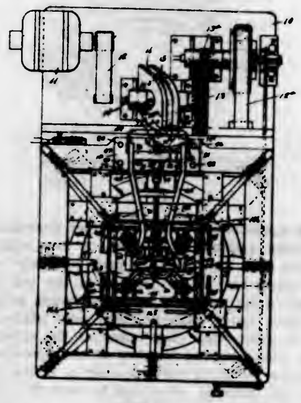
1,386,675. STRIP-SERVING DEVICE. FREDERICK S. ANABLE, Brookline, Mass., assignor to National Binding Machine Company, Boston, Mass., a Corporation of Maine. Original application filed Feb. 1, 1906, Serial No. 413,798. Patent No. 1,168,777. Divided and application filed Jan. 6, 1916, Serial No. 70,554. Divided and this application filed Aug. 23, 1918, Serial No. 251,063. Renewed Jan. 3, 1921. Serial No. 434,863. 5 Claims. (Cl. 91—14.5.)

1. A strip serving device comprising in combination, a strip support, a moistener in operative relation thereto, and means interposed between said support and said moistener to deflect the strip into a bight, and thereby to separate the leading end of the strip from the moistener, said means including a fixed guide constituting a fulcruming member for the strip and positioned adjacent the said moistener, and a movable strip guiding



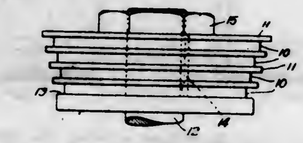
member between said fixed guide and the strip support and in proximity to said fixed guide.

1,386,676. LEATHER-FOLDING MACHINE. JOSEPH W. ANTHONY, Lynn, Mass. Filed July 15, 1918. Serial No. 244,842. 23 Claims. (Cl. 154—41.)



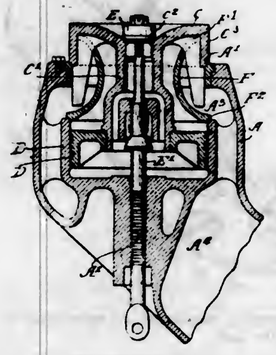
1. A material folding machine including a base having a material receiving portion within its border, a presser arm supported by said base and extended over said receiving portion and means pivotally connecting said arm and said base.

1,386,677. CAPSTAN. BRUNO E. BALDUF, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 9, 1918. Serial No. 261,836. 2 Claims. (Cl. 205—20.)



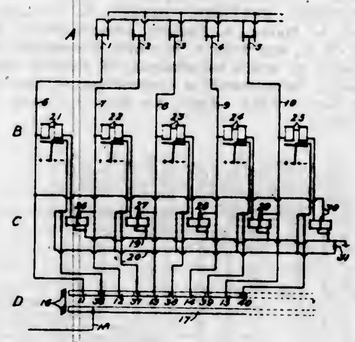
1. In a compound capstan, a plurality of hardened metal wire drawing disks of graduated diameters, and combined spacing and retaining members therefor having straight faces disposed at right angles to the faces of the drawing disks whereby said disks may be reground and interchanged without changing the spacing and retaining members.

1,386,678. BALANCED THROTTLE-VALVE. CHARLES D. BARRETT, JOHN E. MYERS, and ALBERT O. KING, Altoona, Pa. Filed Sept. 16, 1920. Serial No. 410,726. 5 Claims. (Cl. 277—37.)



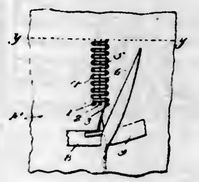
4. In combination with a throttle valve and a balancing piston attached thereto, an annular steam deflecting plate extending over the piston cylinder to a height which will bring the top edge close to the closed valve, said deflecting plate having its sides curved inwardly from the bottom and outwardly at its top so as to protect the piston from the impingement of the steam jet when the valve is first opened and maintain substantially constant pressure on the top of the piston and the bottom of the valve.

1,386,679. TELEGRAPH SYSTEM. JOHN H. BELL, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1917. Serial No. 203,082. 11 Claims. (Cl. 178—63.)



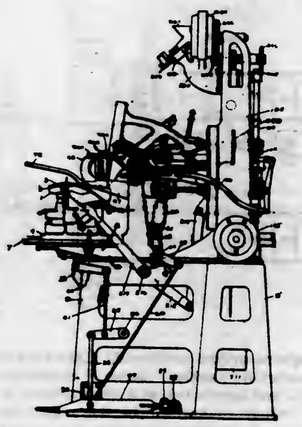
11. A telegraph system comprising a line, a source of current, a transmitter, a plurality of relays operative in various combinations according to the actuation of said transmitter, and a rotary distributer intermediate said line and relays for applying to said line message impulses of positive and negative currents, and coöperating with said relays to connect the transmitting end of said line either to ground or a source of battery following each message impulse depending upon the polarity of the succeeding impulse.

1,386,680. METHOD OF SHAPING AND SEAMING GARMENTS. JOSEPH BERGER, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 26, 1918. Serial No. 242,069. 3 Claims. (Cl. 112—262.)



1. The method of shaping and seaming garments consisting in bending a portion of the body fabric out of the normal plane thereof, cutting said bent portion along a desired line to remove a section therefrom for giving the desired shape to the garment, and overlapping the cut edge portions of the body fabric, and joining the same by stitching as the cutting and shaping proceeds.

1,386,681. HEEL-LASTING MACHINE. CHARLES C. BLAKE, Brookline, Mass. Filed Mar. 27, 1916. Serial No. 86,958. 76 Claims. (Cl. 12—14.)

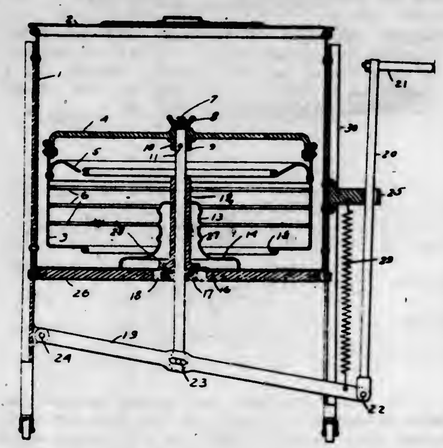


1. A lasting machine, having, in combination, end lasting mechanism and a carrrier therefor connected thereto, the projection of any part of the connnection between the end lasting mechanism and its carrier upon the plane of the shoe bottom lying upon the shoe bottom entirely within the edge thereof throughout the operating stroke of the end lasting mechanism, substantially as described.

1,386,682. WASHING-MACHINE. WILLIAM F. BLAKE, Toledo, Ohio. Filed Nov. 3, 1919. Serial No. 335,267. 8 Claims. (Cl. 68—15.)

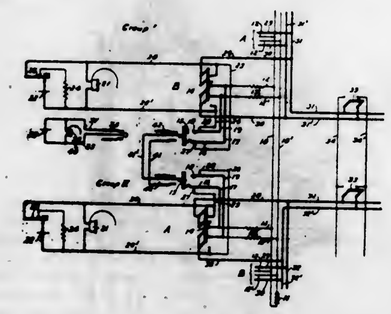
4. In a washing machine, a tub, a vertically movable cylindrical agitator apertured at the bottom to permit

water and clothing to pass into and out of the agitator, and an inwardly and downwardly extending flange at



the upper end of the agitator providing a deflector for the water and clothing passing into the agitator.

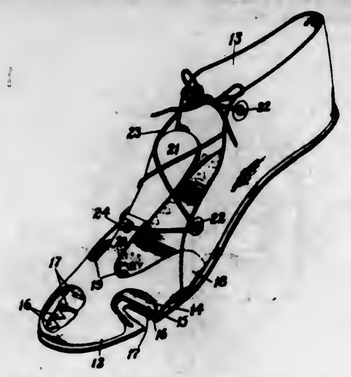
1,386,683. TELEPHONE SYSTEM. WILLIAM T. BOOTH, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 19, 1918. Serial No. 223,333. 4 Claims. (Cl. 179—1.)



4. A telephone system comprising a plurality of groups of interconnected stations, current regulating means individual to and associated with each station, a common source of current connnected to the regulating means, switching means for interconnecting the groups of stations, means for interconnecting any two selected stations independently of other stations, and means responsive thereto to maintain the connnection of the selected stations with the associated regulating means and the common source thereby insuring substantially the same amount of current supplied thereto.

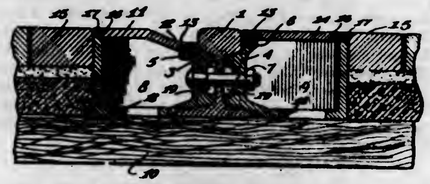
1,386,684. SHOE. CHARLES M. BRADFORD, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 27, 1919. Serial No. 333,668. 5 Claims. (Cl. 36—1.)

1. A shoe having an upper comprising a vamp and a quarter both of stiff and inflexible material, and a flexible sole, the said vamp having an open instep portion and a tongue located in the opening and the said vamp and quarter having their side portions shaped and ar



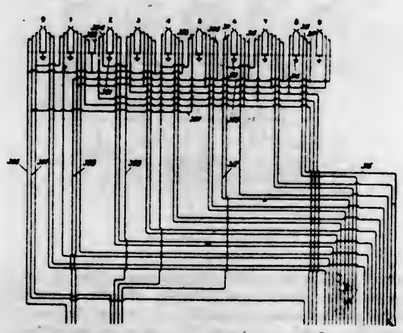
ranged for relative movement at substantially the line of flexure of the sole.

1,386,685. RAIL-JOINT BOX. GILMORE W. BRANT, Canton, Ohio. Filed Sept. 7, 1920. Serial No. 408,409. 2 Claims. (Cl. 238—312.)



1. In combination with a rail joint surrounded by paving, a box open upon its inner side, hooks upon opposite ends of said open side arranged to be hooked around the ends of a splice-piece of the joint to hold the box in position and a removable cover for the box.

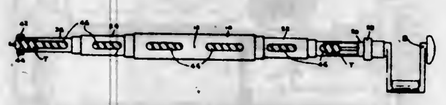
1,386,686. CONTROLLING SYSTEM FOR AUTOMATIC SWITCHING SYSTEMS. ALBERT M. BULLARD, deceased, by Marion R. Bullard, administratrix, Woodstock, N. Y., and John N. Reynolds, Greenwich, Conn., assignors, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Jan. 7, 1915. Serial No. 891. 8 Claims. (Cl. 179—27.)



1. In a telephone system, a sender comprising a plurality of controlling devices, a single set of digits keys,

means responsive to the successive operation of keys of said set for causing said controlling devices to assume set positions corresponding to the keys depressed, and a series of mechanical switches governed in their operation by the subsequent movement of said controlling devices, the movement of said controlling devices being caused in turn by the operation of said mechanical switches.

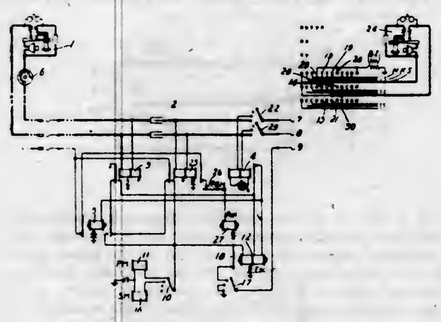
1,386,687. REINFORCING-TUBE FOR BORING-TOOLS. SIDNEY M. CHASE, Minneapolis, Minn. Filed Mar. 7, 1921. Serial No. 450,138. 8 Claims. (Cl. 145—66.)



3. A reinforcing tube for boring tools comprising a central section and sections of a size progressively decreasing telescopically arranged at both ends of said central section.

8. A reinforcing tube for boring tools comprising a plurality of telescoping sections, means for limiting the outward movement of said sections, and means for limiting the inward movement of said sections.

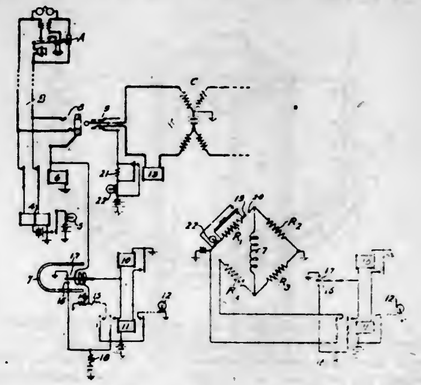
1,386,688. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, and CHARLES L. GOODRUM, New York, N. Y., assignors to Western Electric Company, New York, N. Y., a Corporation of New York. Filed June 6, 1919. Serial No. 302,031. 3 Claims. (Cl. 179—18.)



1. In a telephone system, line terminals, a group of lines terminating in several groups of terminals in various orders of subordination, a calling line, and means for extending said calling line to any one of said lines in said group and responsive to the busy condition of said line to automatically extend said calling line to the next in turn subordinate line.

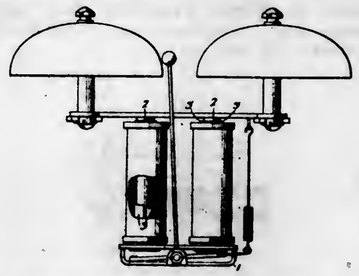
1,386,689. TELEPHONE SYSTEM. ROY D. CONWAY, Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 6, 1918. Serial No. 238,405. 9 Claims. (Cl. 179—73.)

5. A service observing system comprising a telephone line, a cord circuit therefor, a relay energized upon the connection of the cord circuit with the telephone line, a predetermined resistance associated therewith, a service observing signal, means controlled by the energisation of the relay to actuate the signal and to connect said



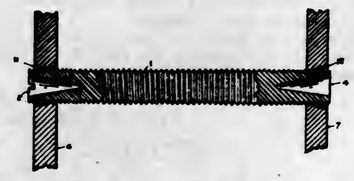
resistance in circuit with the relay to thereby cause the release thereof.

1,386,690. TELEPHONE SYSTEM. GUSTAVUS C. CRAWFORD, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Oct. 23, 1918. Serial No. 259,364. 7 Claims. (Cl. 179—1.)



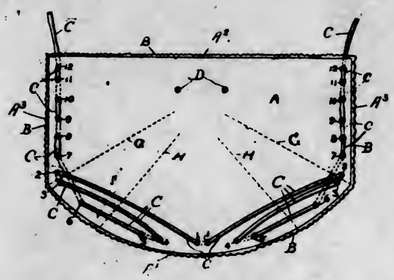
1. A telephone system comprising a metallic telephone line, a plurality of stations thereon, a plurality of grounded branches connnected to a conductor of the line, electromagnetic devices included in said branches and means for automatically and abnormally increasing the impedance of such devices during conversation over the line between the stations, said means consisting of a supplementary laminated core.

1,386,691. STAYBOLT-FASTENING. ERNEST DUCHESNE, Montreal, Quebec, Canada. Filed Nov. 26, 1919. Serial No. 340,955. 1 Claim. (Cl. 85—1.5.)



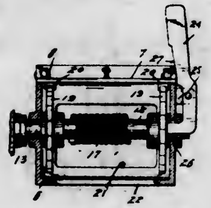
A stay bolt joint in which there is a plate having a threaded hole converging toward the inner end and a bolt threaded into said hole and swaged over to the wall of said hole into mesh with the threads thereof and having a tapered recess projecting beyond the inner surface of said plate.

1,386,692. BONNET. JEAN G. DUPONT, Chicago, Ill. Filed Aug. 21, 1916. Serial No. 115,938. 1 Claim. (Cl. 2—118.)



A bonnet comprising a flat piece of fabric formed to extend continuously around the sides, back and top of a head, having a substantially straight back edge to extend around the neck, and a curved front edge and substantially straight parallel side edges within the prolongation of the curve of the front edge, said piece having marginal holes adjacent the front and side edges, gathering means in said holes whereby the fabric can be drawn to fit around the sides and top of a head, the fabric having holes adjacent the central portion of the margin of the neck portion and gathering means extended through the latter holes.

1,386,693. PORTABLE WINDLASS. EARL ECK, Robbinsdale, Minn. Filed Apr. 1, 1921. Serial No. 457,691. 4 Claims. (Cl. 254—163.)



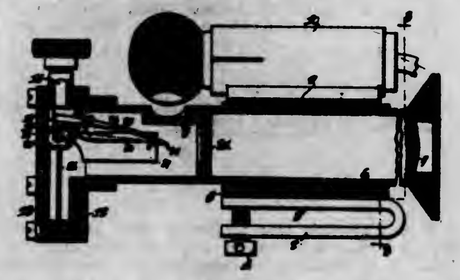
1. A portable device of the kind described comprising a box having means for detachably anchoring it to a suitable support, a windlass drum mounted within said box and having a ratchet wheel, a hinged lid for the box having a holding lug coöperating with said ratchet wheel, a lever for operating said drum from the exterior of the box, a cable attached to said drum, and a friction brake operative to control cable-unwinding movements of the drum.

1,386,694. ELECTRIC SWITCH. ERNEST B. FAHNESTOCK, Plandome, N. Y.; Edith Mary Jordan and Frances Hodgson Burnett, Plandome, N. Y., executors of the will of said Ernest B. Fahnestock, deceased. Filed June 15, 1916. Serial No. 103,737. 7 Claims. (Cl. 200—52.)



1. An electric switch comprising a block of insulating material having recesses for the reception of spring fastening devices for electrical conductors, said block also having apertures for the insertion of conductors to be gripped and held by the fastening devices, spring actuated switching means adapted to be moved to and from the said fastening devices, and flexible contact arms actuated by said switching means for making wiping contacts with the edges of said fastening devices.

1,386,695. ARTIFICIAL HORIZON. ERNST GEORG FISCHER, Washington, D. C. Filed Jan. 29, 1921. Serial No. 441,001. 13 Claims. (Cl. 33—73.)



1. A device of the character described comprising a support, a pendulum-vane mounted on said support, a "line" carried by said pendulum-vane and a "line" relatively fixed with regard to said support and coöperative with said pendulum carried "line" to constitute an artificial horizon "line," a second pendulum-vane mounted on said support, a "line" carried by said second pendulum-vane and having an end located in close proximity to said aforesaid mentioned "lines" and coöperative with said "lines" to determine the true horizontal and vertical position of the instrument.

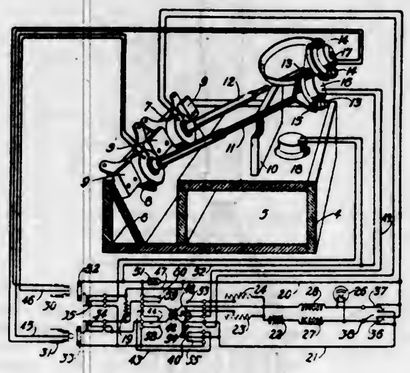
1,386,696. URINAL. YATES FISHBACK, Carrollton, Ill. Filed Sept. 29, 1920. Serial No. 413,494. 4 Claims. (Cl. 4—19.)



1. A device of the character described comprising a container having a broad bottom and a narrow top, a horizontal tubular extension carried by the upper portion of the container, one end of the container having an opening registering with the tubular extension, a conduit member supported by the sides of the container and substantially registering at one end with the lower portion of said extension and the opening, said conduit member extending longitudinally of the container and having its opposite end disposed in spaced relation to the opposite end of the container and a second conduit member supported by the sides of the container and having one end secured to said last mentioned end of the container and having its opposite end terminating adjacent the intermediate portion of the container in spaced relation to the first mentioned conduit member and the bottom of the container.

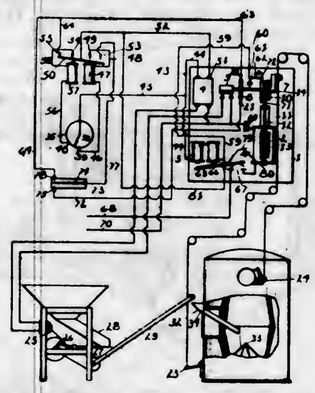
1,386,697. TESTING APPARATUS. HARVEY FLETCHER, New York, N. Y., and FRANK J. STRASSNER, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 14, 1920. Serial No. 396,115. 5 Claims. (Cl. 179—175.)

1. The method of comparatively testing the quality of a transmitter which consists in connecting such transmitter in a tone producing relation with a receiver of known transmission efficiency, separating such transmitter and receiver by an inclosed air column, and reversing the electrical circuit of such receiver, whereby the



quality of such transmitter may be determined by the comparison of the pitch of the tone so produced with the pitch of the tone produced when a transmitter of known transmission efficiency and quality is subjected to similar conditions.

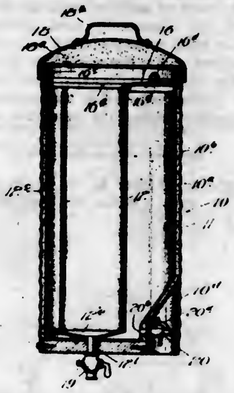
1,386,698. AUTOMATIC FURNACE. LLOYD GARRISON, Salt Lake City, Utah. Filed Mar. 15, 1920. Serial No. 366,078. 4 Claims. (Cl. 236—46.)



1. The combination, with a furnace, of a mechanical fuel feed, means of connecting said fuel feed to the furnace, a control apparatus adapted to open and close the drafts of the furnace and start and stop the fuel feed, a time device adapted to operate said furnace and fuel feed for a definite time periodically irrespective of temperature requirements, and a thermostat adapted to control the operation of said furnace and fuel feed at all other times according to the temperature requirements.

1,386,699. WATER-COOLER. HENRY GIESSEL, Chicago, Ill. Filed Apr. 14, 1919. Serial No. 290,043. 4 Claims. (Cl. 220—16.)

1. A water cooler comprising an external casing, said cooler being provided with an ice compartment and a water compartment, a cover member for both of said compartments, and a removable cover member for said



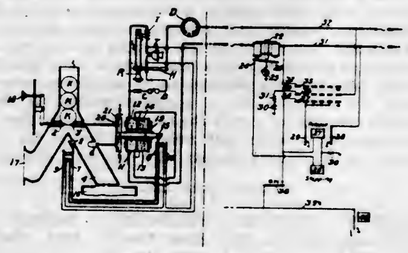
water compartment, said last-mentioned cover member being provided with an ice-filling aperture.

1,386,700. POCKET PENCIL, PEN, AND PAD HOLDER. FRANK N. GILBERT, Binghamton, N. Y., assignor of one-half to Francis R. Gilbert, Philadelphia, Pa. Filed Aug. 15, 1918. Serial No. 250,006. 4 Claims. (Cl. 150—34.)



2. A pocket stationery case including a flat strip folded over on a transverse line to provide sides for the case and having at its fold an inturned reëntrant perforated portion forming guides for a pencil point and sockets for the reception of the pencil.

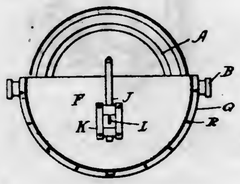
1,386,701. COIN-COLLECT SYSTEM. CHARLES L. GOODRUM, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1916. Serial No. 114,779. 11 Claims. (Cl. 179—6.5.)



1. In a telephone exchange system, subscribers' two-conductor lines, substations having transmitting appa-

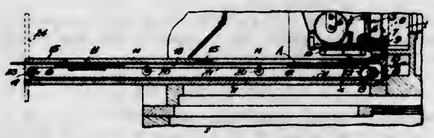
ratus, means including said lines for establishing a connection between said substations, automatic means for periodically collecting toll at the substations, a polarised relay located at each of said substations, said relay being in series with its associated transmitting apparatus, means under the joint control of said toll collecting means and said polarised relay for disabling the transmitting apparatus at the charged substation, and token-controlled means at the calling substation for rendering the conversation continuous during the operation of said charging means.

1,386,702. LADLE. JAMES H. GRAY, New York, N. Y. Filed Nov. 15, 1918. Serial No. 262,667. 4 Claims. (Cl. 22—81.)



1. A ladle for molten metal having a nozzle in an upward extension at one side at a point above the usual level of the metal when the ladle is upright and having a cover or wall beyond said nozzle forming a pocket for the metal when the ladle is tilted and a stopper for said nozzle extending transversely across the ladle and supported in vertical position by said cover when the ladle is thus tilted.

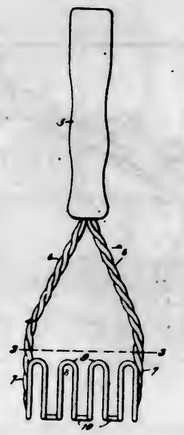
1,386,703. PHOTOGRAPHIC CAMERA. JOHN S. GREENE, Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I., a Corporation of Rhode Island. Filed Dec. 19, 1918. Serial No. 267,455. 4 Claims. (Cl. 95—90.)



1. In a camera, the combination with an exposing chamber, means for feeding a continuous strip of film through the chamber and delivering it from the bottom thereof, and a severing device adapted to cut the delivered film into sheets, of a long, narrow dark chamber beneath the exposing chamber in to which the severed sheets are delivered and a conveyer within the dark chamber arranged to receive the sheets and carry them in a substantially straight path toward the end of the dark chamber in continuous contact with the wall thereof.

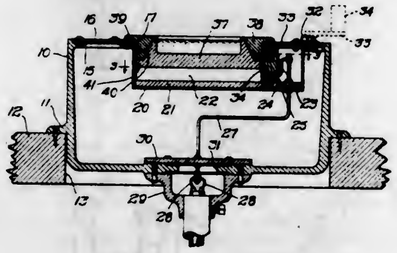
1,386,704. CULINARY IMPLEMENT. HERMAN M. GREENER, Chicago, Ill. Filed June 9, 1921. Serial No. 476,117. 5 Claims. (Cl. 146—15.)

1. A culinary implement comprising a handle, and a dasher at the forward end thereof, said dasher comprising a shank attached to the handle and having a plurality of laterally spaced fingers at its forward end, said



fingers being arranged alternately at right angles to each other.

1,386,705. ELECTRICALLY-HEATED CONTAINER. JAMES T. GRIFFIN, Oak Park, and WILLIAM A. TIMM, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 24, 1920. Serial No. 412,481. 5 Claims. (Cl. 219—43.)

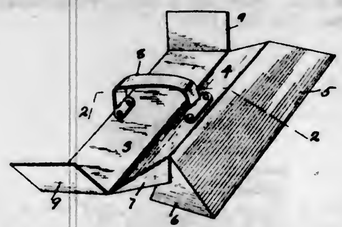


1. In an electrically heated container, a supporting case, a cover therefor provided with an opening and equipped with a support for the entrance and support of a heating unit, a melting pot located above said heating unit, and a cover for a portion of the opening in said main cover and supported therefrom adapted upon being opened to expose the point of connection between external current carrying leads and the heating unit leads, thereby allowing the heating unit to be easily and quickly disconnected and replaced.

1,386,706. PAINT-GUARD. LEROY W. HALL, Minneapolis, Minn. Filed Jan. 15, 1921. Serial No. 437,584. 4 Claims. (Cl. 91—65.)

1. A paint guard constructed of sheet metal bent to form a bearing portion, outwardly and inwardly inclined spring portions, and a handle applied to and extended

from said bearing portion to said outwardly inclined portion, pressure on said hand piece serving to insure con-



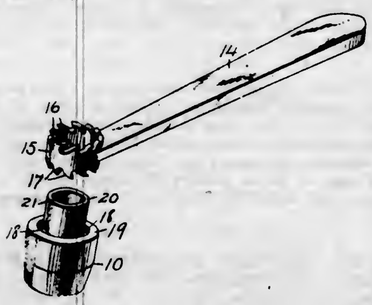
tact of the edge of said inwardly inclined portion with a surface to be protected from paint.

1,386,707. PISTON-RING. STEPHEN D. HARTOG, St. Louis, Mo., assignor, by mesne assignments, to Inland Machine Works, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 24, 1919. Serial No. 272,830. 2 Claims. (Cl. 74—109.)



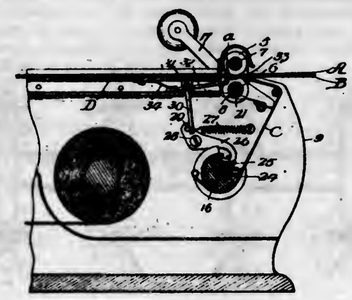
1. A piston ring, comprising a solid portion which is substantially equal in width to the width of the piston groove in which the ring is to operate, and overlapping ends integral with the solid portion extending a substantial portion of the circumference of the ring and being spaced apart throughout their length, said ends having a combined width equal to the width of the solid portion of the ring and being arranged to press laterally against the side walls of the piston groove; said ring having a groove in the inner side of the solid portion opposite from the overlapping ends, said groove being of less length than the length of the solid portion of the ring.

1,386,708. WRENCH. JOHN C. HURLEY, Newark, N. J. Filed Aug. 22, 1919. Serial No. 319,079. 3 Claims. (Cl. 81—60.)



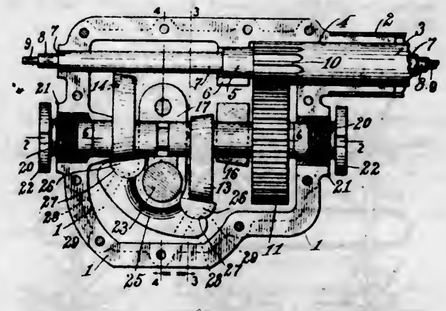
1. A wrench comprising a socket member having a stem thereon, and a handle member having an eye to fit endwise on the stem and removable therefrom, said eye having teeth on its two faces, said teeth all facing in the same direction, said socket member having a projection to be engaged by the teeth, whereby when the eye is removed from the stem, turned over and replaced, the wrench is reversed.

1,386,709. AUTOGRAPHIC REGISTER. LOUIS JENSEN, Chicago, Ill., assignor to United Autographic Register Co., Chicago, Ill., a Corporation of Illinois. Filed Aug. 23, 1920. Serial No. 405,254. 14 Claims. (Cl. 282—16.)



1. In an autographic register from which are withdrawn a plurality of record strips having postholes therein, means for engaging said postholes as said strips are withdrawn, a rewinding roller for the lowermost strip, devices for stopping said roller from revolving, and mechanism actuated by said engaging means for controlling the engagement of said roller by said devices.

1,386,710. STEERING MECHANISM. JOSEPH N. KELLY, Dayton, Ohio. Filed Feb. 5, 1921. Serial No. 442,714. 13 Claims. (Cl. 74—79.)

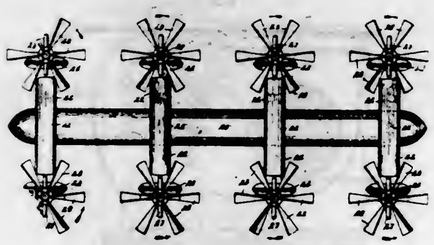


1. In a steering mechanism, a supporting member, a pair of disks supported by said member for rotation about a common axis and arranged off center relatively to said axis, means for simultaneously rotating both disks, a shaft extending transversely to said axis and adapted to be connected with the wheels to be steered, an arm secured to said rock shaft and having parts on the opposite sides of its axes to engage the respective disks, and means for adjusting said disks relatively to said supporting member to maintain a firm engagement between the same and said parts of said arm.

1,386,711. COMPOSITION FOR IMPREGNATING POROUS MATERIALS. WINTWORTH V. LANDER, Newton, Mass., assignor to General Indurating Corporation, New York, N. Y., a Corporation of New York. Filed July 31, 1918. Serial No. 247,663. 12 Claims. (Cl. 134—13.)

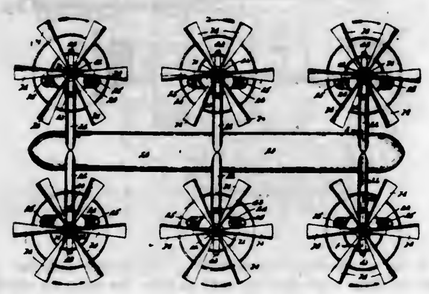
1. A composition for use in the impregnation of porous or bibulous bodies comprising crude petrolatum and a resin.

1,386,712. AIRSHIP. FREDERICK H. LEINWEBER, Chicago, Ill.; Curtis H. Leinweber, William H. Leinweber, and Victor H. Leinweber, executors of said Frederick H. Leinweber, deceased. Filed Mar. 27, 1917, Serial No. 157,622. Renewed Mar. 13, 1920. Serial No. 365,664. 24 Claims. (Cl. 244—25.)



1. The combination with an airship body, of propellers for driving and balancing the same, said propellers being arranged in pairs, the members of each pair being coaxially arranged; means for revolving said propellers about an axis located between them; an engine for operating each propeller; and means for controlling the fuel supply of said engines for balancing the ship, substantially as described.

1,386,713. AIRSHIP. FREDERICK H. LEINWEBER, Chicago, Ill.; Curtis H. Leinweber, William H. Leinweber, and Victor H. Leinweber, executors of said Frederick H. Leinweber, deceased. Filed Nov. 27, 1916, Serial No. 133,754. Renewed Apr. 30, 1920. Serial No. 378,016. 20 Claims. (Cl. 244—25.)

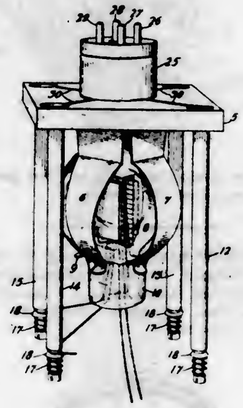


1. An air ship comprising a frame; propellers adjustable on said frame; clutches connected to adjust said propellers; pneumatics for operating said clutches; and altitude operable means for operating said pneumatics, substantially as described.

6. An airship comprising a frame; propellers adjustable on said frame; clutches connected to adjust said propellers; pneumatics for operating said clutches; valves controlling said pneumatics; electromagnets controlling said valves; and means for automatically disconnecting said clutches after a predetermined operation, substantially as described.

13. An airship comprising a frame; adjustable propelling means on said frame; altitude operable means for adjusting said propelling means; and automatic means for locking said propelling means in adjusted positions, substantially as described.

1,386,714. VACUUM-TUBE HOLDER. WALTER J. LEVERIDGE, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 2, 1919. Serial No. 314,911. 7 Claims. (Cl. 175—183.)



3. A holder for a vaccum tube comprising a block, spring tube-engaging fingers projecting from said block, binding posts projecting from said block in the same direction as said fingers, and terminal connections for said holder on the side of said block opposite said fingers, said terminal connections being electrically connected to said binding posts.

1,386,715. CURTAIN-FIXTURE. MARTHA LEWIN, New York, N. Y. Filed Nov. 14, 1919. Serial No. 337,949. 1 Claim. (Cl. 156—19.)

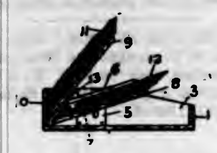


In a curtain fixture, the combination of a pole having a groove extending lengthwise thereof, a series of hooks located at intervals along said pole and projecting outwardly therefrom, a shell pivotally secured to said pole and adjustable to conceal said hooks and to expose same and a pair of blocks slidable lengthwise in said groove whereby said fixture is supported in operative position.

1,386,716. FROTHING AND MINERAL SELECTIVE AGENT AND PROCESS OF USING THE SAME. ROYER LUCKENBACH, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif., a Corporation of Nevada. Filed Apr. 5, 1918. Serial No. 226,833. 16 Claims. (Cl. 83—85.)

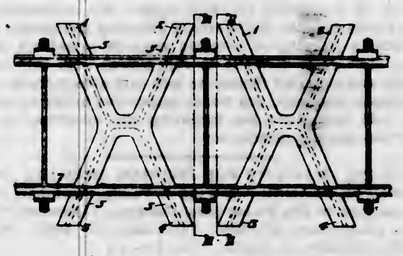
1. A process of concentrating ore, which comprises mixing the ore with water to form a pulp, placing an alkaline solution of rosin, lac and a fatty acid in the pulp, aerating the mass to form bubbles, whereby the bubbles will float upon the surface of the pulp and form a froth, and removing the froth from the pulp.

1,386,717. DESK-TRAY. JAMES STEPHEN LUCKETT and CLYDE CAMERON LIVESAY, Toronto, Ontario, Canada. Filed Oct. 4, 1920. Serial No. 414,685. 3 Claims. (Cl. 45—2.)



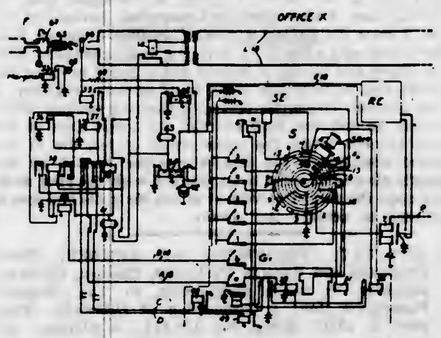
1. In a desk tray, a main tray having a bottom and back wall extending at an angle to each other, a plurality of supplemental trays extending radially from the apex of the angle formed by the bottom and back wall of the main tray, and means for supporting the supplemental trays within the main tray whereby the bottom of the lowermost tray extends at an angle to the bottom of the main tray and the back portions of the supplemental trays together fit the space intervening between the bottom of the lowermost supplemental tray and the back wall of the main tray and arranged in sectoral form.

1,386,718. RAILWAY-TIE. CASSIUS G. MCCOWN, Alliance, Ohio. Filed May 26, 1921. Serial No. 472,653. 2 Claims. (Cl. 238—44.)



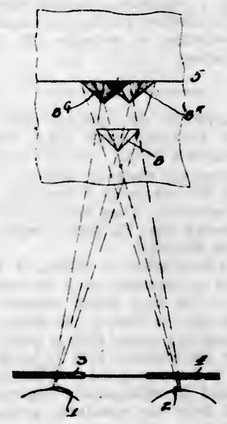
1. A metallic tie of cross shape provided with rail engaging lugs near the end portions thereof arranged to engage the inner sides of the bases of the rails, a tie bar connecting the rails and means upon the tie bar for drawing the rails toward each other.

1,386,719. TELEPHONE SYSTEM. HUGH D. MACPHERSON, Summit, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 20, 1920. Serial No. 397,641. 5 Claims. (Cl. 179—46.)



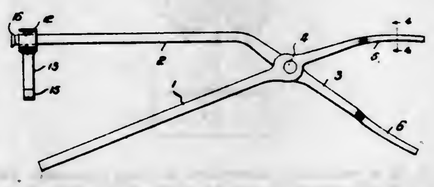
1. In a telephone system, in combination, a plurality of trunk lines and a signaling path common thereto extending between two stations, means at one station for transmitting over the signaling path code signals individual to the different trunk lines, each code signal comprising a plurality of current impulses, means common to the trunk lines for determining the character of certain of the impulses of each code signal, additional independent means common to the trunk lines for determining the character of other of the impulses of each code signal, and means individual to each trunk line for controlling the operation of said additional means.

1,386,720. STEREOSCOPIC PICTURE. ALFRED J. MACY, Chicago, Ill., assignor to Macy Art Process Corporation, a Corporation of Illinois. Filed May 29, 1919. Serial No. 300,576. 4 Claims. (Cl. 88—29.)



1. A stereogram having two stereographic components, a portion of the elements of said components being out of register in one direction and other of said elements being out of register in the opposite direction, whereby certain parts of the stereographic image will be in front of the surface of the stereogram and other parts thereof will be behind said surface.

1,386,721. SPRING-MANIPULATING TOOL. JOHN MADDEN and EDWIN J. CANFIELD, Detroit, Mich. Filed Sept. 10, 1919. Serial No. 322,863. 1 Claim. (Cl. 29—86.3.)



The combination of tongs having pivotally connected handles with one of said handles provided with a head, a sleeve loose on the handle to slide between the head and the pivot of the handle, and an arm carried by said sleeve and having a recess to receive the other handle and prevent a closing movement of said handles.

1,386,722. DIAPHRAGM. GEORGE E. MATHER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,257. 6 Claims. (Cl. 154—2.)

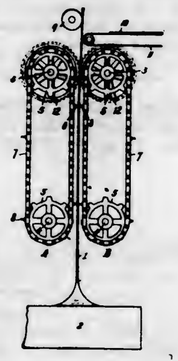


1. The method of constructing a diaphragm which consists in incasing a reinforcing member between two partially vulcanised members, placing the assembled parts in a mold and subjecting to pressure and heat to cause further vulcanization.

1,386,723. METHOD OF PRODUCING NITROGEN COMPOUNDS DURING THE DRY DISTILLATION OF NITROGENOUS FUEL. WALTER OSTWALD, Grossbothen, near Leipsig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Sept. 7, 1916, Serial No. 118,836. Renewed Jan. 27, 1920. Serial No. 354,748. 4 Claims. (Cl. 23—21.)

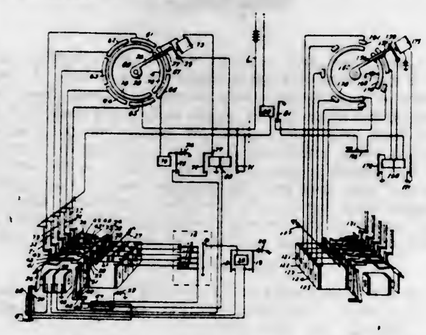
1. In the dry-distillation or coking of a nitrogenous fuel, the process of obtaining as a by-product the nonfixed nitrogen of the fuel, which consists in mixing a chlorid with the fuel, in heating the mixture in a closed chamber and supplying steam thereto with the exclusion of air, whereby hydrochloric acid is produced and the nitrogen of the fuel is converted into the form of ammonium chlorid, and in subsequently separating the ammonium chlorid from the remaining products, substantially as described.

1,386,724. APPARATUS FOR DRAWING SHEET-GLASS. THOMAS S. OWENS, Toledo, Ohio. Filed Jan. 14, 1919. Serial No. 271,082. 2 Claims. (Cl. 49—17.)



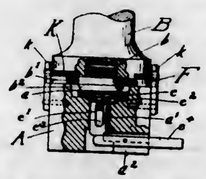
1. In a continuous sheet glass drawing apparatus, two sheet drawing units disposed in opposed relation at opposite sides of a sheet being drawn, each of said units comprising shafts transversely spaced longitudinally of the sheet, sprocket wheels carried by each shaft, a pair of sprocket chains connecting said wheels and spaced longitudinally of the shafts, and sheet engaging bars connecting said chains and spaced longitudinally thereof to provide a considerable space between the points of engagement of a sheet by the bars, the bars of one unit cooperating with those of the other unit to grip and impart drawing movements to the engaged sheet, the bars of the separate units also coöperating to score and weaken the engaged sheet at the points of gripping of the same.

1,386,725. SIGNALING SYSTEM. JOEL C. R. PALMER, New Rochelle, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 14, 1918. Serial No. 249,780. 16 Claims. (Cl. 178—17.)



16. In a printing telegraph system the combination of a current impulse distributer, a selecting mechanism comprising a plurality of selecting magnets, armatures therefor, mechanism normally in engagement with said armatures and actuated thereby to lock said armatures in their actuated positions, and means responsive to the actuation of said armatures for initiating the operation of the current impulse distributer.

1,386,726. MACHINE FOR FORGING ARTICLES FROM METAL BLANKS. EDWARD J. PAQUE, Cincinnati, Ohio, assignor to The Pollak Steel Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Nov. 17, 1919. Serial No. 338,579. 1 Claim. (Cl. 78—1.)

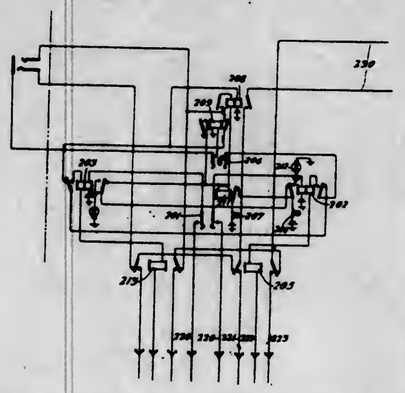


In a machine of the character described the combination of a female die having a recess in its upper face, an ejector plate seated removably upon the bottom of the die, a male die having a boss of smaller diameter than the recess and adapted to move in axial alinement with the recess and having a tapered end adapted to enter the recess and to form the inner walls of a die chamber, a ring member, means for mounting the ring member reciprocally around the boss so that the lower face of the ring member forms the upper walls of the die in the closed position of the dies, a retainer carried by the female die and adapted to be engaged with the ring member upon the return movement of the male die and means adapted to actuate the ejector.

1,386,727. TREATMENT OF LUMBER. FRITZ PFLEUMER and HERMAN PFLEUMER, Dresden, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Sept. 5, 1916. Serial No. 118,421. 4 Claims. (Cl. 99—12.)

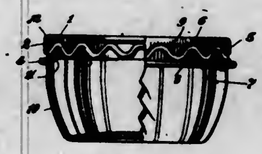
1. The method of treating lumber and the like to increase its density, which consists in subjecting such material, at an elevated temperature, to pressure transmitted through a fluid in contact with said material externally but of such nature as not to penetrate into it materially and impervious to the pressure-generating medium.

1,386,728. MACHINE-SWITCHING TELEPHONE SYSTEM. LIPA POLINKOWSKY, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 27, 1918. Serial No. 251,605. 27 Claims. (Cl. 179—27.)



1. In a telephone exchange system, a plurality of lines, means including a connecting circuit and a selectively operable switching device for interconnecting two of said lines, an operator's key board; a plurality of register sets each comprising a set of number relays, a set of counting relays and a set of switching relays; means under the control of said key-board for variably operating the number relays of any one of said plurality of register sets, means jointly controlled by said switching device and the operated number relays for variably operating the associated counting relays, means controlled by the counting relays for operating the associated switching relays, and means for restricting the control of said key board to the number relays of one register set at a time.

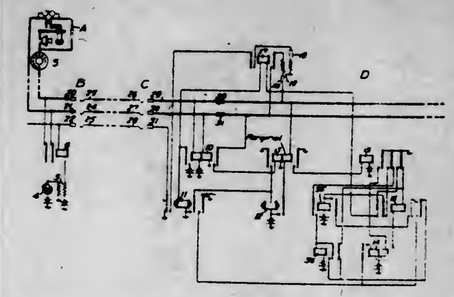
1,386,729. SINUOUS-BEAD FRICTION-SEAL. GEORGE RAMSEY, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y., a Corporation of New York. Filed July 31, 1920. Serial No. 400,395. 21 Claims. (Cl. 215—82.)



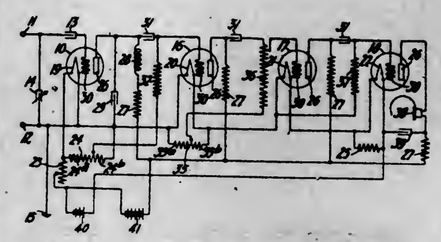
1. A friction closure cap comprising a cover portion, a skirt extending at right-angles to said cover portion and a continuous sinuous sealing bead in said skirt portion.

1,386,730. TELEPHONE-EXCHANGE SYSTEM. ARTHUR RAYNSFORD, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,511. 10 Claims. (Cl. 179—27.)

1. In a telephone system, an office, telephone lines of different classes terminating therein, a second office, trunks interconnecting said offices and having two wires only, an operator's position at said second office wherein said trunks terminate, a cord circuit thereat, automatic switches at said first office adapted to be set under the control of the calling subscriber to seize one of said trunks, and means for immediately automatically indicating the class of the calling line to the operator at the second office as soon as said cord circuit is connected to a seized trunk.



1,386,731. VACUUM-TUBE REPEATER-CIRCUITS. HARRY S. READ, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 12, 1919. Serial No. 289,608. 9 Claims. (Cl. 179—171.)



1. In a multi-stage repeater, a plurality of vacuum tubes each having a cathode, an anode and a control electrode, a resistance bridged across one of said cathodes, and a connection from a point on said resistance to the control electrode of another of said tubes.

1,386,732. DETACHABLE CHAIN-LINK. JAMES REID, Watertown, and ALBERT M. LEAHY, Somerville, Mass. Filed Oct. 13, 1920. Serial No. 416,748. 9 Claims. (Cl. 59—85.)



1. A detachable chain or cable link, compriaing a C-shaped member having an open side with cylindrical flanged projections at its ends, a pair of duplicate coupling members for closing the open side of said C-shaped member, each of said coupling members having recesses for the reception of said projections, and plain abutting sides held in contact in the plane of said C-shaped member, and means for uniting said coupling members.

1,386,722. DIAPHRAGM. GEORGE E. MATHER, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 24, 1919. Serial No. 306,857. 6 Claims. (Cl. 154—2.)

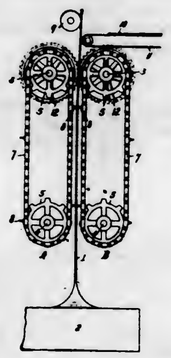


1. The method of constructing a diaphragm which consists in incasing a reinforcing member between two partially vulcanized members, placing the assembled parts in a mold and subjecting to pressure and heat to cause further vulcanization.

1,386,723. METHOD OF PRODUCING NITROGEN COMPOUNDS DURING THE DRY DISTILLATION OF NITROGENOUS FUEL. WALTER OSTWALD, Grossbothen, near Leipzig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Sept. 7, 1916, Serial No. 118,836. Renewed Jan. 27, 1920. Serial No. 354,748. 4 Claims. (Cl. 23—21.)

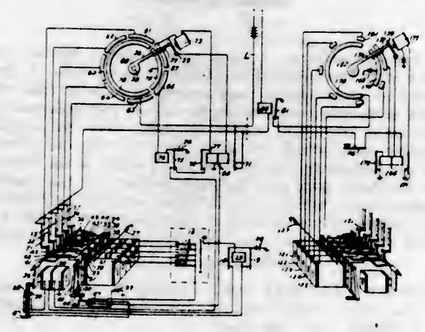
1. In the dry-distillation or coking of a nitrogenous fuel, the process of obtaining as a by-product the nonfixed nitrogen of the fuel, which consists in mixing a chlorid with the fuel, in heating the mixture in a closed chamber and supplying steam thereto with the exclusion of air, whereby hydrochloric acid is produced and the nitrogen of the fuel is converted into the form of ammonium chlorid, and in subsequently separating the ammonium chlorid from the remaining products, substantially as described.

1,386,724. APPARATUS FOR DRAWING SHEET-GLASS. THOMAS S. OWENS, Toledo, Ohio. Filed Jan. 14, 1919. Serial No. 271,082. 2 Claims. (Cl. 49—17.)



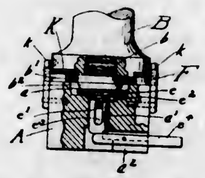
1. In a continuous sheet glass drawing apparatus, two sheet drawing units disposed in opposed relation at opposite sides of a sheet being drawn, each of said units comprising shafts transversely spaced longitudinally of the sheet, sprocket wheels carried by each shaft, a pair of sprocket chains connecting said wheels and spaced longitudinally of the shafts, and sheet engaging bars connecting said chains and spaced longitudinally thereof to provide a considerable space between the points of engagement of a sheet by the bars, the bars of one unit cooperating with those of the other unit to grip and impart drawing movements to the engaged sheet, the bars of the separate units also cooperating to score and weaken the engaged sheet at the points of gripping of the same.

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16. In a printing telegraph system the combination of a current impulse distributer, a selecting mechanism comprising a plurality of selecting magnets, armatures therefor, mechanism normally in engagement with said armatures and actuated thereby to lock said armatures in their actuated positions, and means responsive to the actuation of said armatures for initiating the operation of the current impulse distributer.

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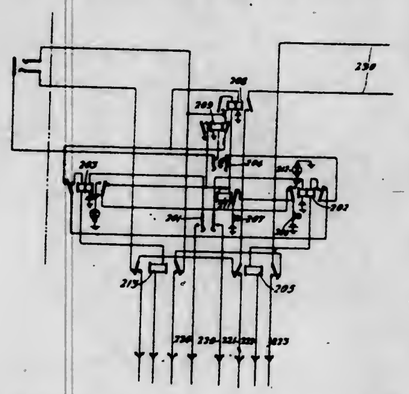


In a machine of the character described the combination of a female die having a recess in its upper face, an ejector plate seated removably upon the bottom of the die, a male die having a boss of smaller diameter than the recess and adapted to move in axial alinement with the recess and having a tapered end adapted to enter the recess and to form the inner walls of a die chamber, a ring member, means for mounting the ring member reciprocally around the boss so that the lower face of the ring member forms the upper walls of the die in the closed position of the dies, a retainer carried by the female die and adapted to be engaged with the ring member upon the return movement of the male die and means adapted to actuate the ejector.

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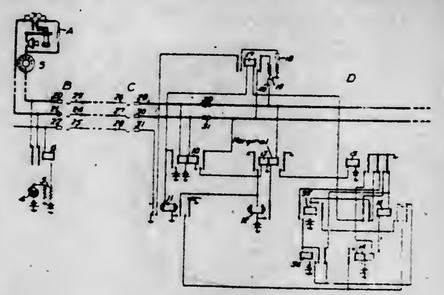
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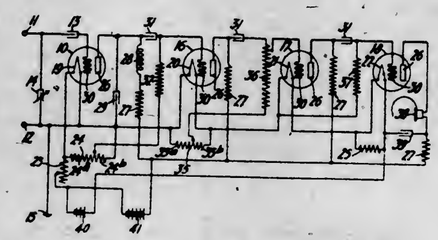
1. A friction closure cap comprising a cover portion, a skirt extending at right-angles to said cover portion and a continuous sinuous sealing bead in said skirt portion.

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1. In a telephone system, an office, telephone lines of different classes terminating therein, a second office, trunks interconnecting said offices and having two wires only, an operator's position at said second office wherein said trunks terminate, a cord circuit thereat, automatic switches at said first office adapted to be set under the control of the calling subscriber to seize one of said trunks, and means for immediately automatically indicating the class of the calling line to the operator at the second office as soon as said cord circuit is connected to a seized trunk.



1,386,731. VACUUM-TUBE REPEATER-CIRCUITS. HARRY S. READ, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 12, 1919. Serial No. 289,608. 9 Claims. (Cl. 179—171.)



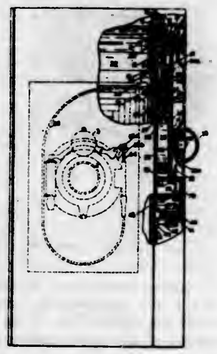
1. In a multi-stage repeater, a plurality of vacuum tubes each having a cathode, an anode and a control electrode, a resistance bridged across one of said cathodes, and a connection from a point on said resistance to the control electrode of another of said tubes.

1,386,732. DETACHABLE CHAIN-LINK. JAMES REID, Watertown, and ALBERT M. LEAHY, Somerville, Mass. Filed Oct. 13, 1920. Serial No. 416,748. 9 Claims. (Cl. 59—85.)



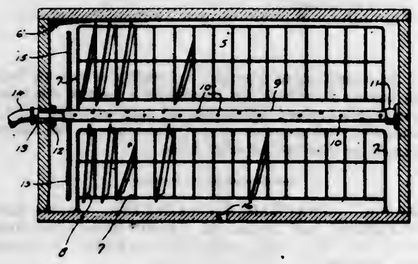
1. A detachable chain or cable link, comprising a C-shaped member having an open side with cylindrical flanged projections at its ends, a pair of duplicate coupling members for closing the open side of said C-shaped member, each of said coupling members having recesses for the reception of said projections, and plain abutting sides held in contact in the plane of said C-shaped member, and means for uniting said coupling members.

1,386,733. FILM-SHIFTING DEVICE FOR CAMERAS. LOUIS W. ROSEN and PINCUS BRAUNER, New York, N. Y., assignors, by direct and mesne assignments, to Adolph E. Brion, New York, N. Y. Filed Feb. 26, 1918, Serial No. 219,256. Renewed May 11, 1920. Serial No. 380,649. 15 Claims. (Cl. 95—31.)



1. In a device of the class described, a camera with a shutter mechanism suitable for a variety of exposures, an automatic film shifting mechanism adapted to co-act with an intervally holed or notched film, controlling means in locking arrangement with said film shifting mechanism for starting said film shifting mechanism when out of engagement with said hole or notch, solid means operatively associated at all times between said shutter mechanism and said controlling means for actuating said controlling means directly from the shutter mechanism after a predetermined exposure has been completed, and means for causing the said film shifting mechanism to stop and be locked regardless of said film when the next hole or notch in said film is brought into engagement with said controlling means.

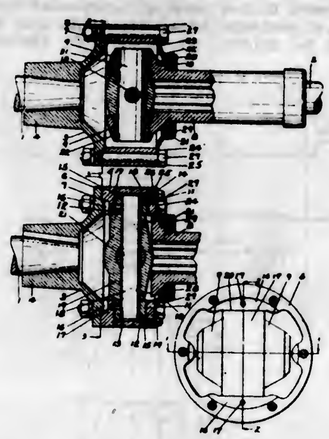
1,386,734. DISH-WASHING APPARATUS. HARRY ROSENBAUM, New York, N. Y. Filed Oct. 23, 1920. Serial No. 418,887. 1 Claim. (Cl. 141—9.)



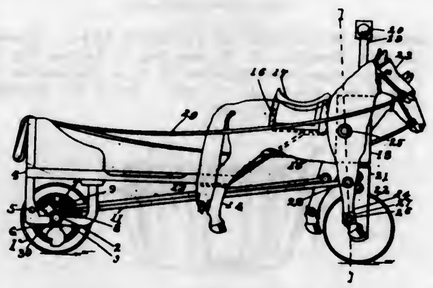
A washing apparatus comprising a receptacle, a perforated spray pipe extending horizontally and centrally between the opposite end walls of the receptacle and rotatably supported, a water supply connection to the pipe, radially extending discharge tubes carried by the spray pipe adjacent to one end thereof for rotating said pipe by the reaction of the water discharged from the outer ends of said tubes, and dish supporting racks mounted in the receptacle parallel to the spray pipe, and located above and below the same.

1,386,735. UNIVERSAL JOINT. CLEMENS T. SCHAEFER, Anderson, Ind., assignor to Arvac Manufacturing Company, Anderson, Ind. Filed Oct. 9, 1920. Serial No. 415,841. 4 Claims. (Cl. 64—102.)

4. In a universal joint, the combination of an outer shaft member constituting a housing member and comprising a shaft receiving section provided with a flange and an annular body section disposed against said flange, an inner forked shaft member having a spherically curved surface, a journal member arranged within the outer shaft member, a journal pin for the inner shaft member carried by said journal member, a second journal pin carried by the outer shaft member disposed through said journal member and journaled in said outer shaft member, an annular closure member embracing said inner shaft member and provided with an outwardly projecting flange disposed against the outer end of said body member, bolts disposed through said outer shaft member sections and said closure member for securing said parts together, a packing ring within said shaft member coacting with the spherical surface of said inner shaft member, and a spring thrust ring for said packing ring having lateral wave-like spring bends therein.

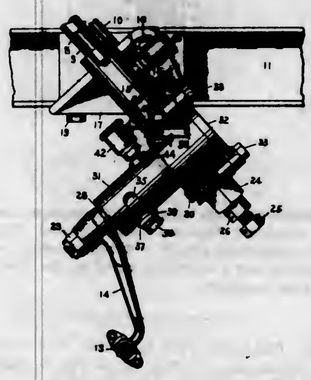


1,386,736. VELOCIPEDE FOR CHILDREN. JOHN R. SCHWARZ, St. Joseph, Mo. Filed Sept. 25, 1920. Serial No. 412,684. 1 Claim. (Cl. 208—42.)



In a velocipede; a transporting wheel; a flange secured on the inner side of said wheel, an axle for said vehicle on the end portion of which axle said wheel is rotatably mounted; a pawl carrier oscillatably mounted on said axle adjacent to said wheel; a pawl oscillatably mounted on said pawl carrier; a shoe secured on the upper end portion of said pawl for being brought into contact with the inner surface of said flange; a connecting rod the rear end of which is crank connected with the lower end portion of said pawl; rod moving means whereby said connecting rod is manually moved forward; a weight formed with said pawl carrier by the gravity of which said carrier and the therewith connected parts are moved for their return movement; and stopping means whereby the forward movement of said connecting rod and the therewith connected parts is limited.

1,386,737. STEERING MECHANISM FOR MOTOR-VEHICLES. LEE C. SHARP, Plattsmouth, Nebr. Filed Feb. 18, 1916. Serial No. 79,193. 1 Claim. (Cl. 74—79.)



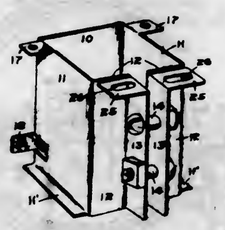
In a steering mechanism for motor vehicles, the combination with a steering-post having a tapered lower end-portion, of a worm fitting upon said end-portion, means for removably securing the worm thereon, a worm-gear meshing with worm and having an integral axialy stem, said stem having a tapered end-portion of the same form as the end-portion of the steering-post, a crank having a taper-bored hub adapted to fit upon the tapered end-portion of either of said stem or said steering-post, means for removably securing said crank upon said end-portion of the stem, and a housing having bearings for said steering-post and worm-wheel stem and inclosing said worm and worm-wheel.

1,386,738. CABINET-DOOR. CHARLES A. SONNENBERG, Columbus, Ind. Filed June 23, 1920. Serial No. 391,143. 2 Claims. (Cl. 20—19.)



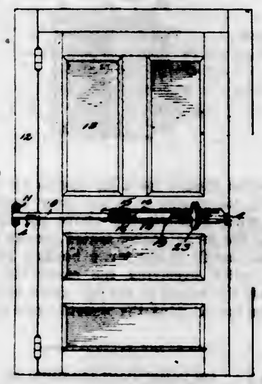
2. As a new cabinet manufacture, a door receiving compartment separate from the body of the cabinet and defined by inclosing members two opposite ones of which are channeled on sides toward each other, a rectangular follower, a door, a pair of metal straps rigidly secured to opposite ends of the follower, hinge-pins seated in the door and passing through said straps and projecting into the adjacent channels, and dowel pins remote from the hinge-pins seated in the follower and entering the channels to aid the hinge-pins in supporting and guiding the follower so it will not bind when slidably moved longitudinally of the channels.

1,386,739. DEVICE FOR ATTACHING TABLE-LEGS. GEORGE W. STOLL and GEORGE H. DESCHAMP, Indianapolis, Ind. Filed Dec. 6, 1920. Serial No. 428,502. 1 Claim. (Cl. 45—48.)



A device for detachably securing table legs comprising a resilient plate bent to inclose the tenon of a table leg, means for wedging fast the tenon of the table leg in the device and for clamping and holding said tenon immovable at the conclusion of the wedging action, and flanges formed by bending the lower edges of the device laterally for increasing the weight supporting surface area of the device.

1,386,740. DOOR AND WINDOW ADJUSTER. ERODE R. SUBROYAR, Mylapore, Madras, India. Filed June 4, 1920. Serial No. 386,584. 4 Claims. (Cl. 292—276.)

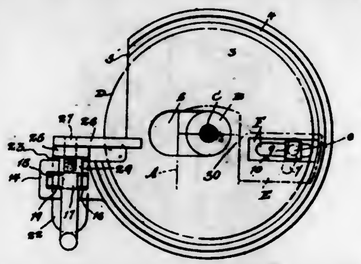


1. In an adjuster for doors and the like, a rod pivotally secured to the framing thereof, a guide secured to the door and provided with an opening, a slotted bar slidably mounted in said guide and pivotally connected with the free end of said rod, a rotatable spindle having a portion extending through the slot in said bar and the opening in said guide and having threaded engagement with said door, and a handle secured to said spindle and provided with a base of greater width than said slot.

1,386,741. COMBINED GRINDING-WHEEL GUARD AND REST. WILLIAM HENRY SUMBLING, Toronto, Ontario, Canada, assignor to Sumbling Machinery Company, Limited, Toronto, Ontario, Canada. Filed June 1, 1920. Serial No. 385,455. 5 Claims. (Cl. 51—268.)

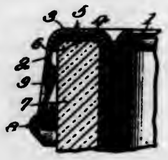
1. In a grinding machine, the combination with a grinding wheel journaled therein, of a guard for said wheel having a plate provided with an opening centrally thereof through which extends the arbor of said wheel; means coupled to the frame of said machine and adapted to co-act with said plate to permit said guard to be moved transversely of said machine and circumferentially of said wheel and designed to firmly support said guard in adjusted position; a slotted bracket carried by said guard at one side and projecting forwardly thereof and disposed sub-

stantially in a vertical plane, and means adjustably carried by said last-mentioned bracket and adapted to be



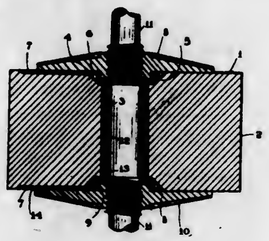
adjusted to provide a horizontal rest for the work when the adjustment of said guard renders this adjustment necessary.

1,386,742. HERMETIC FRICTION-CLOSURE FOR JARS. THOMAS LUCIEN TALIAFERRO, Chicago, Ill. Filed July 8, 1920. Serial No. 394,632. 2 Claims. (Cl. 215—95.)



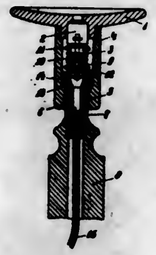
1. A hermatic closure for a jar having an outer smooth vertical wall, comprising a metal cover having a gasket seat in its lower face directly above the upper edge of the mouth of the jar, a gasket seated therein and adapted to engage the mouth of the jar, a holding band having a horizontal portion overlying the cover for forcing the gasket against the mouth of the jar, and a vertical portion having means for gripping the smooth vertical wall of the jar.

1,386,743. GRINDSTONE-MOUNTING. FRANCOIS XAVIER TRUDEL, Shawinigan Falls, Quebec, Canada. Filed Dec. 20, 1920. Serial No. 432,129. 3 Claims. (Cl. 51—168.)



1. In a grindstone mounting, a grindstone having a central shaft orifice terminating at each end in an annular recess communicating with a groove or feed trough in the stone, and extending toward the outer grinding surface, a shaft of lesser diameter than said orifice, closures on said shaft for said orifice, and filling surrounding said shaft and also occupying said recesses.

1,386,744. TELEPHONE AND MICROTELEPHONE. ROBERT ARNOUT BARON VAN LYNDEN, Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed July 11, 1918. Serial No. 244,342. 4 Claims. (Cl. 179—101.)



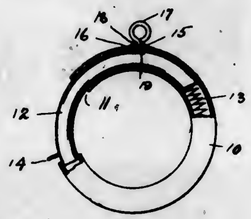
1. A telephone comprising a handle member and another member connected therewith slidably and carrying the telephonic apparatus proper, a spring tending to separate said members, and a switch operated by the relative movement of said members.

1,386,745. BEARING FOR SHAFTS. CARL GUSTAF VON POST, Gottenburg, Sweden. Filed Feb. 9, 1920. Serial No. 357,400. 7 Claims. (Cl. 64—38.)



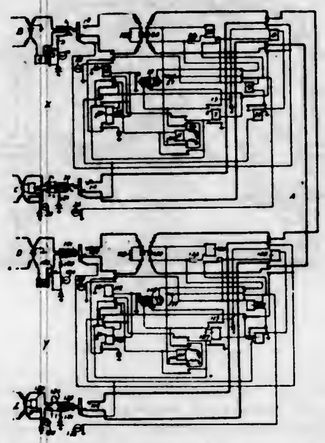
1. A bearing for shafts comprising a movable carrier with a straight upper surface for engagement with the shaft and a lower surface having a longitudinal groove therein, a fixed support having in its upper surface a groove parallel to the first groove, spherical bearing members interposed between the carrier and the fixed support and adapted to roll in said grooves, and means for preventing lateral displacement of the shaft.

1,386,746. SPRING-RING. HARRY WACHENHEIMER, Providence, R. I., assignor to Wachenheimer Bros., Providence, R. I., a Firm. Filed Apr. 7, 1919. Serial No. 287,953. 2 Claims. (Cl. 24—239.)



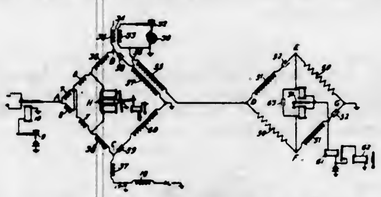
1. A spring ring comprising a tubular ring-shaped body having an opening thereinto, a bolt slidably mounted in said ring, and an attaching eye member pivotally mounted to swivel in the wall of the tubular body member of said ring and located out of the path of movement of said bolt so as not to interfere with the free action of the same.

1,386,747. TELEPHONE-EXCHANGE SYSTEM. CHARLES WHITE, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 11, 1918. Serial No. 244,360. 4 Claims. (Cl. 179—43.)



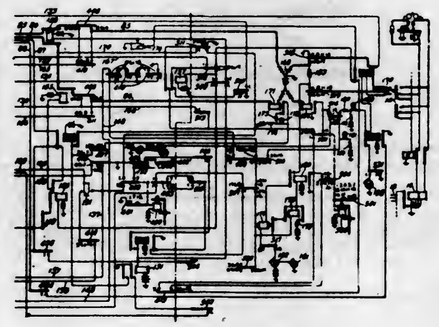
1. In a telephone exchange system, a plural service trunk circuit for reciprocal operation between two stations, signal control means at each station for each service, said means for different services being responsive to signaling currents of different characteristics, means at each station for selectively impressing currents of different characteristics on the trunk circuit to operate the associated signal control means at the other station, and means operating upon the response of one signal control means to render the other signal control means at the same station unresponsive.

1,386,748. SIGNALING SYSTEM. RAY S. WILBUR, Lyndhurst, N. J., assignor to Western Electric Company Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 14, 1918. Serial No. 211,869. 3 Claims. (Cl. 179—8.)



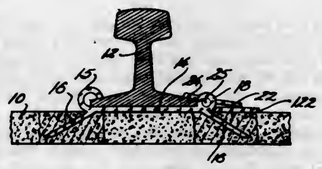
1. A signaling system comprising a pair of line conductors, means for connecting a source of signaling current thereto, signaling apparatus responsive to such current traversing the line conductors in series, means for connecting a source of direct current to one line conductor, a third conductor, a signal receiving device responsive to such direct current traversing the one line and the third conductor in series, a Wheatstone bridge composed of two balanced noninductive arms and two balanced inductive arms resonant to signaling current, a signal receiving device connected across the bridge between the junction points of the inductive and noninductive arms, a repeating coil inductively connecting the bridge with the one line conductor, and means for connecting a source of alternating current with the one line conductor for operating the bridged signal receiving device.

1,386,749. CALL-DISTRIBUTING SYSTEM. SAMUEL B. WILLIAMS, Jr., Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Refiling of abandoned application Serial No. 107,090, filed July 1, 1916. This application filed Apr. 14, 1919. Serial No. 290,065. 6 Claims. (Cl. 179—8.)



3. In a telephone system, the combination with a connecting circuit, of a calling line and a called line united thereby, service charging apparatus associated with said calling line, a key for operating the same associated with said connecting circuit, means for automatically disconnecting the connecting circuit from the calling line, and means actuated in operating said charging key for preventing the operation of said automatic disconnecting means.

1,386,750. RAILWAY-TIE AND RAIL-SECURING MEANS. CHARLES F. YOUBERG and FRANCES S. YOUBERG, Indianapolis, Ind., assignors of one-half to William Youberg, Hegewisch, Chicago, Ill. Filed June 26, 1920. Serial No. 392,133. 2 Claims. (Cl. 238—265.)

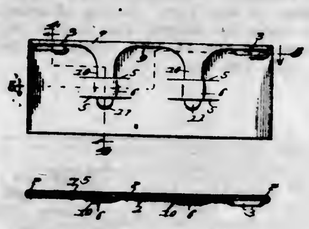


1. In combination, a concrete tie, a base plate thereon having depending members embedded in the tie, and means on the plate to secure a rail thereto, said securing means comprising an overhanging part at one side of the plate, integral ears at the other side, said part being adapted to engage one side of the base of the rail, the base of the rail fitting between said overhanging part and said ears and engaged by both, and a nipper secured to said ears and overhanging and engaging the adjacent side of the rail base.

1,386,751. LICENSE-NUMBER-PLATE HOLDER. WILLIAM R. YOUNG, Nashville, Tenn. Filed May 4, 1921. Serial No. 466,717. 2 Claims. (Cl. 40—125.)

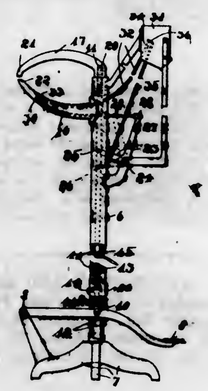
1. In a device of the character and for the purpose indicated, a holder plate provided with means on its lower and end edges for the reception of a license number plate,

straps struck up from the holder plate, a top straddling the holder and number plates at their upper edges and



having extensions frictionally engaging between the straps and the holder plate to retain the top in position.

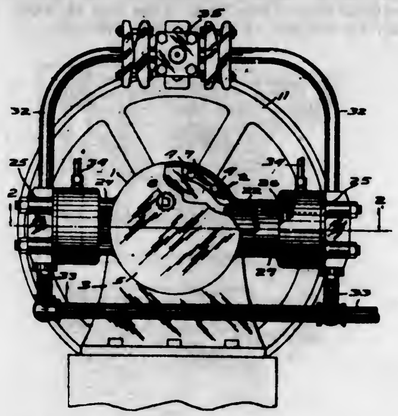
1,386,752. SHOE-TACKING MACHINE. CHARLES F. ZIEGLER, Los Angeles, Calif. Filed Feb. 25, 1921. Serial No. 447,074. 2 Claims. (Cl. 1—13.)



2. In a sole tacker, a hollow standard of suitable height to reach from the foot of the operator to a point near his hands, a foot pedal near the lower end of the standard, an operating rod in the standard connected to the foot pedal, spring means in the standard surrounding the rod for holding the foot pedal in inoperative position, one jaw member rigidly provided on the standard near the upper end of the standard, another jaw member telescopically connected with the rod and with the standard normally spaced from the first-named jaw member, a nailing member in operative connection with the rod terminating within the first-named jaw member and adapted to force a tack through the front end of said jaw member, and means operative by said operating rod for transferring a tack from a magazine into a position in front of the nailing member.

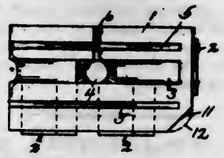
1,386,753. REFRIGERATION APPARATUS. WALTER CHARLES BABR, Toledo, Ohio. Filed Dec. 11, 1919. Serial No. 344,036. 2 Claims. (Cl. 230—6.)

1. In a compressing apparatus, a shell having enlarged portions, a crank and connecting rod located in one of said enlarged portions, a double headed piston located in the shell and connected to the connecting rod, ribs connected to the heads of the piston located on opposite sides of the connecting rod and the crank, removable cylinders located in two of the said enlarged portions and forming, between the cylinders and the shell, water chambers, removable cylinder heads secured to the shell, a closing plate for closing the part of the shell containing



the crank and the connecting rod, and a base for supporting the closing plate whereby the shell and the parts contained therein are supported.

1,386,754. POURED-CONCRETE-CEMENT BLOCK. ALEXANDER L. BAXTER, Masury Station, Ohio. Filed June 26, 1920. Serial No. 391,912. 1 Claim. (Cl. 72—35.)



In a poured concrete cement block, parts, halves or whole bricks molded therein so that the ends of same extend beyond the end or side surface of the block, substantially as described.

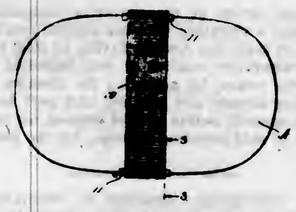
1,386,755. CLOTHES-PROTECTING DEVICE. JEAN L. BENSON, Chicago, Ill. Filed Apr. 18, 1913. Serial No. 761,906. Renewed Dec. 20, 1920. Serial No. 432,136. 2 Claims. (Cl. 45—118.)



1. A device for protecting clothes comprising a top frame piece, a cross piece extending across the top of said frame piece in the middle thereof, a clothes hanger

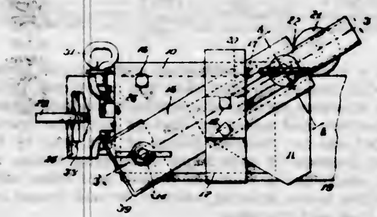
support extending across said frame below said cross piece, a hook connected with said clothes hanger support and extending upwardly beyond said cross piece and adapted to be attached to a fixed support, a flexible closed cover surrounding said frame and supported thereon and provided with an opening through which said hook projects.

1,386,756. STRAP ATTACHMENT FOR BRUSHES. MATTHEW P. BENSON, Troy, and MILTON M. WIENER, New York, N. Y. Filed Mar. 16, 1921. Serial No. 452,855. 4 Claims. (Cl. 15—29.)



1. The herein described clip for the attachment of a strap to a brush, the same comprising a single piece of sheet material consisting of a vertical side panel to lie close against the edge of the brush back and having a pair of slots formed therein, and a pair of upper and lower flanges extending horizontally from the side panel parallel to each other.

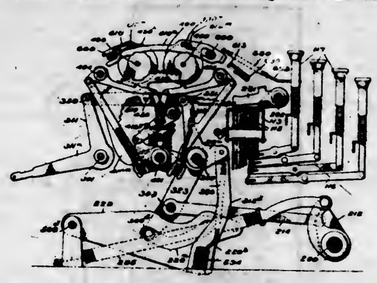
1,386,757. BLADE-HOLDER. FREDERICK BERGMAN, Chicago, Ill., assignor of one-third to Amuel B. Spach, Chicago, Ill. Filed Oct. 4, 1919. Serial No. 328,475. 7 Claims. (Cl. 51—221.)



1. A holder of the class described, comprising a body portion, a blade-holding member arranged on said body portion and adapted to be disposed in a diagonal manner thereon, means whereby said member may be pivotally secured at one end to said body portion adjacent the sides thereof so as to swing diagonally of the body portion, means whereby the angular position of the blade-holding member may be maintained, and means adjustably secured to the body portion adapted to contact with the grinder or stone at a distance removed from the blade-holding end of the holder whereby the forward blade-holding end of the holder will be presented at the desired angle to the grinder or stone.

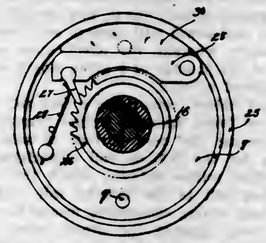
1,386,758. CALCULATING-MACHINE. CHARLES BIRTH, Kingston, Pa., assignor to Wales Adding Machine Company, Wilkes-Barre, Pa., a Corporation of Pennsylvania. Filed Oct. 13, 1919. Serial No. 330,371. 15 Claims. (Cl. 235—137.)

1. In a calculating machine, the combination with a counter of lower denomination; a trip member carried thereby; a counter of next higher denomination; a carrying member therefor; means to drive the carrying member in one direction to turn the counter of higher denomination; and means to restore the carrying member to normal position; the counters adapted to shift from and toward the carrying member; of a flexible detent adapted to lock the carrying member in its restored position, and including a latch member journaled to swing into and out of



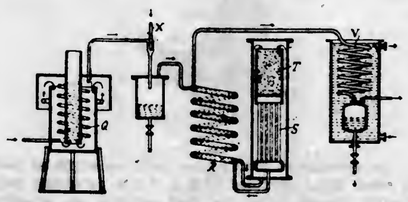
the path of the carrying member, and a release lug flexibly connected with the latch for relative movement and normally lying in the path of the trip member of the counter of next lower denomination.

1,386,759. VEHICLE SHOCK-ABSORBER. WILLIAM M. BOMNING, Manitowoc, Wis. Filed Oct. 19, 1920. Serial No. 417,888. 3 Claims. (Cl. 188—130.)



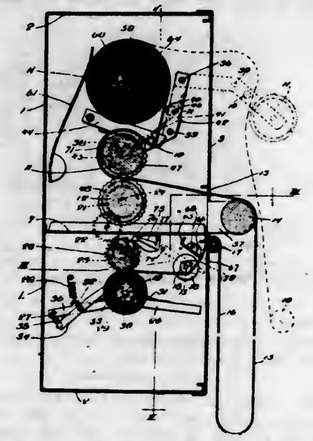
1. In a device of the class described, a relatively stationary shaft, a casing journally mounted on the shaft, friction elements disposed in the casing, certain of said elements being fixed thereto, the other elements being rotatable on the shaft when the casing is moved in one direction, a ratchet connected with the last mentioned elements, a pawl for co-action with the ratchet to lock said last mentioned elements to the shaft, and means for cushioning the movement of the pawl to eliminate noise in the operation thereof.

1,386,760. PROCESS AND MEANS RELATING TO THE PRODUCTION OF AMMONIA. CARL BOSCH, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Sept. 14, 1912. Serial No. 720,412. 27 Claims. (Cl. 23—21.)



2. The process of producing ammonia which consists in repeatedly catalyzing a mixture of hydrogen and nitrogen and absorbing the ammonia formed by one catalysis and adding fresh mixture before the succeeding catalysis.

1,386,761. TOWEL-HOLDER. WADE W. BOWMAN, New York, N. Y. Filed Feb. 15, 1917. Serial No. 148,714. 31 Claims. (Cl. 45—32.)

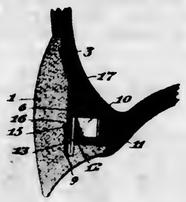


5. In a towel holder, the combination with a strip of towel material, towel take-up mechanism to be operated by the movement of said towel, and means whereby the movement of said towel will operate said take-up mechanism, of means whereby the effect upon said take-up mechanism of the passage of a given length of said towel may be adjusted at will.

16. A towel holder, comprising a feed roll for containing a strip of towel material wound thereon, a take-up roll for receiving the used portion of said towel, and drive means for the take-up roll comprising in part a pair of friction rollers between which the towel moves from the feed roll to the take-up roll, and a support for one of said rollers comprising means for urging said mentioned roller toward the other roller, and means whereby said support may be moved to dispose said mentioned roller entirely out of engagement with the other roller.

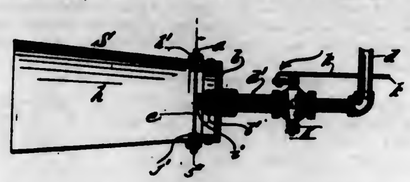
28. In a towel holder, the combination comprising a movable strip of towel material, take-up mechanism to be operated by the movement of said towel, means whereby movement of said towel will operate said take-up mechanism comprising a pair of rollers between which the towel moves, and means providing a series of resilient longitudinally extending ridges and grooves upon said rollers between which the towel moves, for the purpose set forth.

1,386,762. ARTIFICIAL TOOTH. WALTER H. BOWMAN, Philadelphia, Pa. Filed Nov. 1, 1919. Serial No. 335,001. 4 Claims. (Cl. 32—9.)



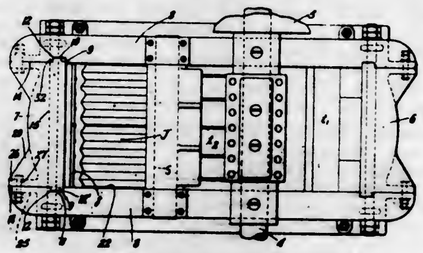
4. In combination with a base plate, an artificial tooth, said tooth being provided with a T-slot extending longitudinally thereof along its shut surface, an attaching anchor extending from said T-slot lingually into the body of the base plate, said anchor being provided at its labial end with an incisively projecting resilient element bent backwardly upon itself.

1,386,763. OPERATING SOUNDERS. JOHN HERMAN BRETTHAUER, Westchester, N. Y. Filed Sept. 20, 1920. Serial No. 411,373. 2 Claims. (Cl. 116—138.)



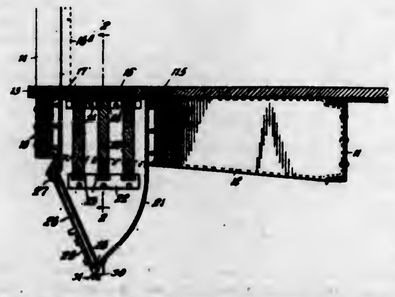
1. A signal device of the character designated, comprising a horn, a vibratory sounding element located therein, and an air induction conduit having an inlet port positioned in coöperative relation to said sounding element, together with means for adjusting the distance between said sounding element and said air inlet port and means attached to opposite points of said element for regulating the tension of said sounding element, for the purpose described.

1,386,764. CRUSHER. CHARLES G. BUCHANAN, East Orange, N. J. Filed Nov. 11, 1920. Serial No. 423,246. 2 Claims. (Cl. 83—53.)



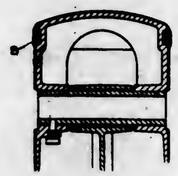
1. In a crusher the combination with a frame having sides with inward directed ends and transverse thrust bearing shoulders thereon, of a separable head set against said shoulders, and means for drawing said sides against said head and for resisting flexure of said sides by the outward pressure of said frame comprising flanges extended longitudinally from the ends of said frame sides and bolting means drawing inwardly on said flanges and spaced from said shoulders.

1,386,765. CONVERTIBLE BOX-CAR. ARGYLE CAMPBELL, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 2, 1920. Serial No. 427,744. 4 Claims. (Cl. 105—289.)



1. In a convertible box car, the combination with the car body having a side door opening, fixed flooring and an underframe; of a floor door located opposite said side door opening and pivotally mounted along its outer edge and adapted to assume either a horizontal position as part of the car floor or a vertical position partially covering the door opening; a discharge hopper located opposite said side door opening and adapted to be covered by said floor door when the latter is in horizontal position; and additional door extension means, positioned within said hopper when said floor door is used as a part of the car flooring, said means being adapted for positioning across said door opening on top of the floor door when the latter is in its vertical position across said door opening.

1,386,766. INTERNAL-COMBUSTION ENGINE. HUGO CENTERVALL, Brooklyn, N. Y. Filed May 22, 1916. Serial No. 99,066. 8 Claims. (Cl. 74—108.)



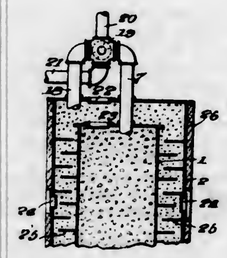
1. An internal combustion engine having a cylinder and its piston composed chiefly of the same metal, one of said members supporting an intervening bearing sleeve of a different metal, said sleeve being connected to said part so as to respond to the expansion and contraction of said part, regardless of its coefficient of heat expansion.

1,386,767. SOAP TABLET. DANIEL L. CHANDLER, Fitchburg, Mass., assignor to Vend-Ads Co. Inc., Worcester, Mass., a Corporation of Massachusetts. Filed May 31, 1919. Serial No. 300,906. 3 Claims. (Cl. 87—23.)



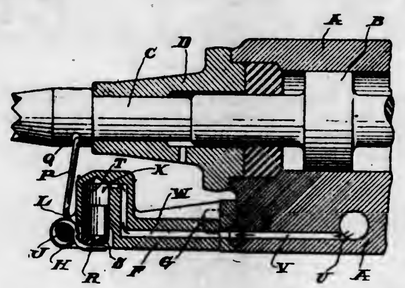
1. A cleansing tablet comprising a core of paste soap and a relatively thin frangible layer of comparatively hard soap consisting of an endless imperforate band entirely surrounding said core except at the opposite ends thereof.

1,386,768. OIL-CRACKING PROCESS AND APPARATUS THEREFOR. DAVID E. DAY, Santa Maria, Calif. Filed Apr. 1, 1920. Serial No. 371,508. 14 Claims. (Cl. 196—25.)



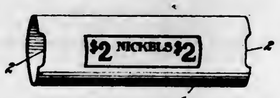
1. The process of producing low boiling hydrocarbons from high boiling hydrocarbons which comprises passing high boiling hydrocarbons into a zone containing spreading material, heating the said zone to a cracking temperature, whereby high boiling hydrocarbons are cracked and produce low boiling hydrocarbons together with carbon in the said zone, leading off vapors of low boiling hydrocarbons and condensing the said vapors, terminating the passage of high boiling hydrocarbons to the said zone, burning away the said carbon produced in the said zone, passing high boiling hydrocarbons into a second zone containing spreading material in heat transferring relation to the first zone, whereby low boiling hydrocarbons are produced, and passing the said low boiling hydrocarbons to a condenser.

1,386,760. DOLLY-RETURN DEVICE. JESSE DITSON, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Sept. 22, 1920. Serial No. 412,048. 5 Claims. (Cl. 121—32.)



1. An automatic return device for a fluid actuated dolly, comprising a resilient member, pivoted adjacent the dolly and engaging the dolly, and fluid actuated means coöperating with said member for retracting the dolly.

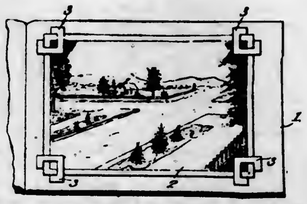
1,386,770. COIN-TUBE. CLEMENT L. DOWNEY, Cincinnati, Ohio. Filed July 18, 1919. Serial No. 311,844. 3 Claims. (Cl. 133—10.)



1. A coin tube comprising a tubular structure of paper or the like, of a diameter to receive the desired size of coin, and a shallow notch in the end of the tube of a shape and width to receive the edge of a coin presented thereto in a slanting direction, for the purpose described.

2. A blank for use as a step in forming coin tubes which comprises a strip of paper of the desired width, printed into sections and intermediate each section pierced with a sufficient cut, which upon severing the sections will leave a finger notch at each side of the cut, and hence for each end of each section or coin tube.

1,386,771. PICTURE-MOUNTING DEVICE. ALBERT W. ENGEL, Chicago, Ill. Filed May 14, 1920. Serial No. 381,248. 2 Claims. (Cl. 40—156.)



1. A picture mounting device consisting of a corner fitting gummed upon one side, adapted to be secured

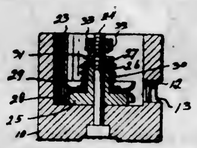
partly to the picture and partly to the mount therefor, and for that purpose having two slits at an angle to each other with open communication at their proximate ends.

1,386,772. BUTTON. REINHOLD ENGELBRECHT, Essen-Ruhr, Germany. Filed July 24, 1920. Serial No. 398,799. 2 Claims. (Cl. 24—101.)



1. A button comprising a head, a base, and a stay connecting said head and base, the said head and base forming woolders arranged at right angles to each other.

1,386,773. YARN-TENSIONING DEVICE FOR LOOM-SHUTTLES. DAVID HERBERT FOGLE, New Brookland, S. C. Filed Dec. 15, 1920. Serial No. 431,057. 5 Claims. (Cl. 139—46.)



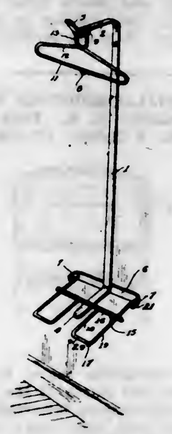
4. In a loom shuttle having a yarn eye at one end, a yarn guide within the shuttle, a tensioning device for the yarn comprising a centrally disposed member, two disks disposed within the shuttle and rotatable upon said member, and between which disks the yarn passes to the eye, a spring bearing against one of said disks and urging it toward the other disk, and nuts engaging said member and bearing against the spring whereby the tension of the spring and the pressure exerted against the disks may be adjusted.

1,386,774. SASH-PULLEY. JAMES H. FOOTE, Cincinnati, Ohio. Filed Feb. 21, 1921. Serial No. 446,836. 5 Claims. (Cl. 16—17.)



3. A sash pulley adapted to seat in an opening in a window frame member, comprising a sheave bearing housing having a supporting element adapted to fit into the opening in the frame member and provided with means to engage the front face of the frame member to limit the movement of said element in one direction into said opening, and with means to sustain the thrust of said element against the end of said opening, a hood element, to which the sheave is journaled, adapted to fit into the opening in the frame member and provided with means to sustain the thrust of said hood element against the end of said opening, connnected to and held in relatively movable engagement by said supporting element and adapted to releasably engage the rear face of the frame member and lock the suppporting element to the frame member irrespective of a considerable range in thickness of said frame member, and means to maintain said supporting and hood elements in locked relation with said frame member.

1,386,775. GARMENT-HANGER. MARCUS F. FULFORD, Fort Worth, Tex. Filed Aug. 18, 1920. Serial No. 404,333. 4 Claims. (Cl. 45—13.)



1. In a device of the class described, an upright having its upper portion directed forwardly to provide a supporting arm and having the terminal of its arm directed upwardly and forwardly to provide a hat hook, and a garment hanger pivotally suspended from the said arm, the said garment hanger comprising a transverse supporting bar and side portions inclined upwardly and crossing each other and having terminals pivotally engaging the said arm.

1,386,776. FRICTION SHOCK-ABSORBING MECHANISM. WILLIAM A. GEIGER, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Aug. 27, 1920. Serial No. 406,288. 8 Claims. (Cl. 213—64.)



1. In a friction shock absorbing mechanism, the combination with a friction shell having a plurality of longitudinally extending flat friction surfaces, the planes of some of said friction surfaces being parallel with each other and the planes of the remaining friction surfaces being arranged at an angle to said parallel friction surfaces; of two sets of friction shoes, one set coöperating with said parallel friction surfaces and the other set with the other friction surfaces; spreading means interposed between the friction shoes of the two sets and adapted to press the latter against their respective coöperating shell friction surfaces; and a spring resistance.

1,386,777. CATAMENIAL APRON. MAUDE SINCLAIR GROSZE, St. Louis, Mo. Filed Sept. 18, 1919. Serial No. 324,330. 3 Claims. (Cl. 128—287.)

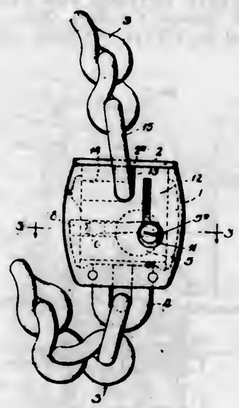
1. An apron of the kind described comprising a sheet of impervious material, a section of net-like material

secured to the upper edge of the impervious sheet, a pair of cover sheets of textile, arranged on opposite sides of the impervious sheet, interengaging fastening elements on



the upper edge portion of said cover sheets and adapted to penetrate through the net section when in engagement, whereby the cover sections are detachably maintained in position.

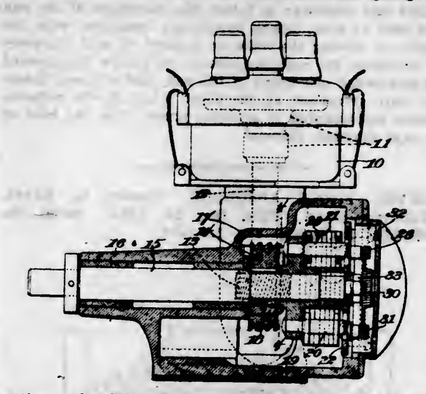
1,386,778. LOCKING DEVICE. RAYMOND K. GRAY, Chicago, Ill., assignor to The Graynic Corporation, Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,844. 8 Claims. (Cl. 70—17.)



7. A locking device comprising a lock casing, a block insertible in said casing, locking mechanism for locking said block in said casing, a slot formed in one edge of said block and open at its outer end when said block is in partially withdrawn position, and a transverse slot in said casing registering with the inner end of the slot in said block, and closing the open end thereof when said block is in locking position.

1,386,779. IGNITION APPARATUS. EDWARD A. HALDLEIB and THOMAS L. LEE, Rochester, N. Y., assignors to North East Electric Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 7, 1917. Serial No. 153,077. 8 Claims. (Cl. 264—16.)

1. In ignition apparatus, an automatic timing-device comprising a driving-member and a driven member arranged to rotate together but relatively movable; a centrifugal weight movably mounted on one of said members; a cam-connection, between the weight and the second of said members, for causing relative movement of the members when the weight moves outwardly; and spring-con-



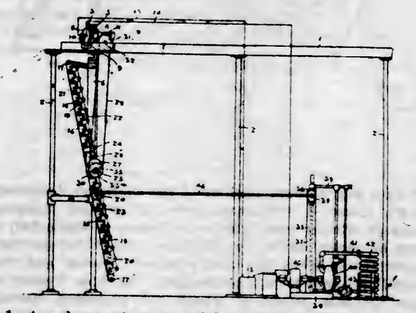
nections, also between the weight and said second member, arranged to resist the relative movement of the weight and said member.

1,386,780. HAMMER. JAMES DEWITT HARDY, Salt Lake City, Utah. Filed Nov. 25, 1919. Serial No. 340,519. 2 Claims. (Cl. 254—26.)



1. The combination with a hammer, of a yoke, means whereby the bifurcated ends of the yoke may be secured upon each side of the hammer head and a leverage base formed at the opposite end of said yoke, said base being cross sectionally shaped to fit the head of the hammmer when the yoke is folded against said head.

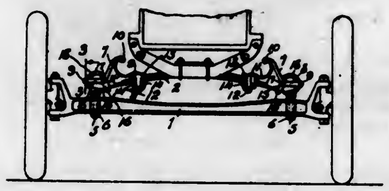
1,386,781. SOLAR MOTOR. WALTER JAMES HARVEY, Toronto, Ontario, Canada. Filed Sept. 7, 1918. Serial No. 253,023. 7 Claims. (Cl. 126—271.)



1. A solar motor comprising, a circular trackway, a reflector member suspended from said trackway and

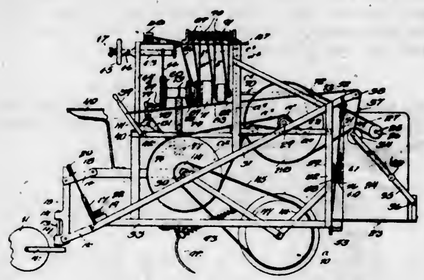
adapted to focus the sun's rays to a common focal point, means for causing said reflector member to be moved around said trackway to follow the movement of the sun from east to west, means operatively connected with the means for moving the reflector member on said trackway for operating the reflector member to folllow the upward and downward movement of the sun, and a power generator unit arrranged at the focal point of the reflector member and adapted to generate power from the heat of the rays focussed thereon.

1,386,782. SHOCK-ABSORBER. GEORGE H. HAYES, Hazelton, Kans. Filed Dec. 24, 1917. Serial No. 208,651. 2 Claims. (Cl. 267—17.)



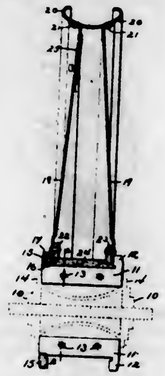
1. In a shock absorber, a lever, a support therefor arranged to form a rigid stop for limiting the upward movement of the lever, a load carrying leaf spring, an S shaped spring having its ends respectively pivoted to the lever and to the leaf spring, and a link supporting the adjacent end of the leaf spring and pivoted to the lever intermediate of the fulcrum of the lattter and the S shaped spring, substantially as set forth.

1,386,783. POWER-DRIVEN FARMING IMPLEMENT. JAMES T. HICKMAN, Jr., Springport, Ind. Filed Mar. 1, 1920. Serial No. 362,487. 10 Claims. (Cl. 97—72.)



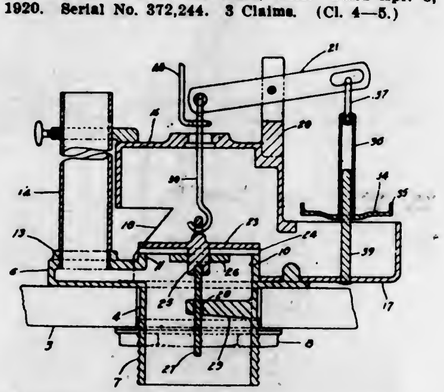
2. In a soil working machine of the character described, a main frame, a transverse series of ground engaging rollers or wheels upon which the frame is supported, a source of power carried by the frame, power transmitting connections between the said source of power and the said rollers, or wheels, and vertically movable frames in which the said rollers or wheels are journaled, having pivotal connections in the main frame to permit the rollers or wheels to independently yield in vertical directions.

1,386,784. WHEEL. JOHN ODELL JOHNSTON, Newark, N. J. Filed June 18, 1920. Serial No. 389,835. 5 Claims. (Cl. 301—63.)



1. A wheel comprising a hub member which includes an annular flanged clamp, a disk member including a pair of disks, a pair of rings to which the disks are secured, and a sleeve recessed at each end to receive a ring, said rings and sleeve being held in the clamp.

1,386,785. WASTE CONTROL FOR FLUSH-TANKS. RAYMOND H. KEEVAN, Cleveland, Ohio. Filed Apr. 8, 1920. Serial No. 372,244. 3 Claims. (Cl. 4—5.)

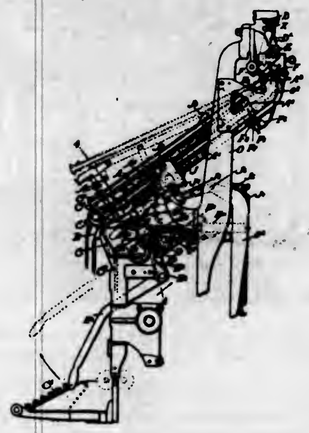


1. In a waste control for a flush tank, the combination with a flush tank having a waste outlet of a hollow valve casing provided with an opening in the side thereof and an outlet opening corresponding to the outlet opening in the tank, a disk valve arranged to rest on and close said outlet opening in said casing, a lever pivotally supported adjacent to said casing, a link connecting one end of said lever to said valve, a retarding device hung from the opposite end of said lever adjacent to the opening in the side of said casing and means for operating said lever, the arrangement being such that the water before passing through the opening in said valve casing during the flushing operation will pass over said retarding device.

1,386,786. TYPOGRAPHICAL MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed Oct. 29, 1919. Serial No. 334,259. 34 Claims. (Cl. 199—16.)

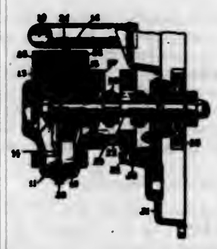
5. In a typographical machine, the combination of a plurality of distributers, a corresponding plurality of

magasines, intermediate magazine entrances to carry the matrices from the former to the latter, separate base frames carrying the magasines and their respective entrances and each provided with a pair of rearwardly



extending arms, and supporting brackets wherein said arms are pivoted at their upper ends, the arms at one side having their uppermost portions lying in the same vertical plane as the supporting bracket to which they are pivoted.

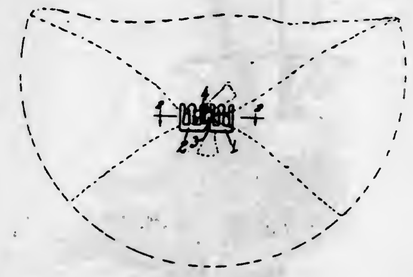
1,386,787. PUMP. CHARLES B. KIRKHAM, Nassau Boulevard, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Original application filed Sept. 27, 1916, Serial No. 122,439. Divided and this application filed Sept. 5, 1918. Serial No. 252,716. 6 Claims. (Cl. 253—191.)



1. A duplex pump including a body, a central inwardly extending flange partially separating the body into chambers, an impeller rotatably alined with the flange to complete separation of said chambers, vanes carried by said impeller to project into each chamber, and an inlet and a circuit outlet separably communicating with each of said chambers.

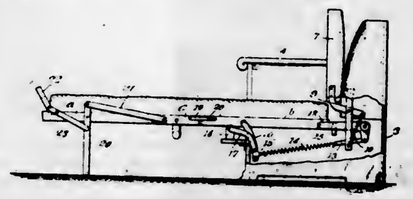
1,386,788. VEIL-FASTENING DEVICE. PHILIP M. LEVIT, Chicago, Ill. Filed Oct. 11, 1920. Serial No. 416,082. 4 Claims. (Cl. 24—83.)

3. In a veil fastening device, a three-pronged member, the center prong about which the veil may be wound being provided with a head, teeth on the said center prong preventing slippage of the veil when in position, the outer prongs being provided with beveled inner faces at the end providing in combination with the center prong a guide for positioning the veil on the center prong, a hook on the said member, and a second member similar to



the first named member having an aperture through which the hook may be passed.

1,386,789. CONVERTIBLE DAVENPORT-BED. JOSEPH LUPPINO, New York, N. Y. Filed Aug. 4, 1917. Serial No. 184,464. 14 Claims. (Cl. 5—51.)

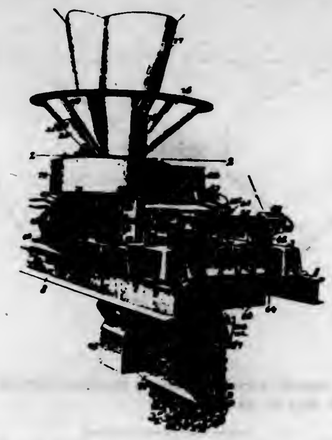


1. A convertible davenport bed comprising a framework, a plurality of spring mattress sections hinged together and openable to form a bed and including a rear section, and means for supporting said sectional mattress on the framework through the medium only of the rear section and including a pair of hangers, each pivotally connected at one end to the rear section and at its opposite end to the framework, said pivotal connections with the rear section and the framework being in substantially horizontal alinement when the sections are opened to form a bed and in substantially vertical alinement when the sections are folded, whereby the sections are hung from the framework at the rear thereof when in folded position.

1,386,790. AUTOMATIC SCALE. ANGUS MCLEOD and ALEXANDER T. MCLEOD, Chicago, Ill. Filed Apr. 25, 1919. Serial No. 292,599. 30 Claims. (Cl. 249—42.)

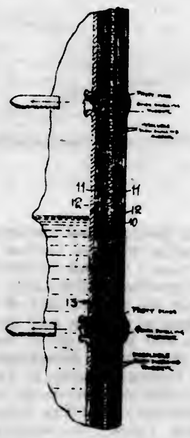
1. A coal scales, comprising a revolving member arranged to discharge coal by the act of revolving, driving mechanism for said member, a shiftable clutch included in said mechanism and having means for holding it in the driving position to secure the revolution of said member, a clutch bar extending from said clutch, a hopper arranged to catch the coal as it is discharged from the revolving member, a rockable scale beam supporting the hopper, movable means including a shifting arm caused to act at the limit of the upward rocking of the scale beam to depress the clutch bar, shift the clutch into the inop-

erative position and stop said revolving member; and means including a trip bar arranged to hold the shifting



arm inactive until the trip bar is engaged and displaced by the scale beam.

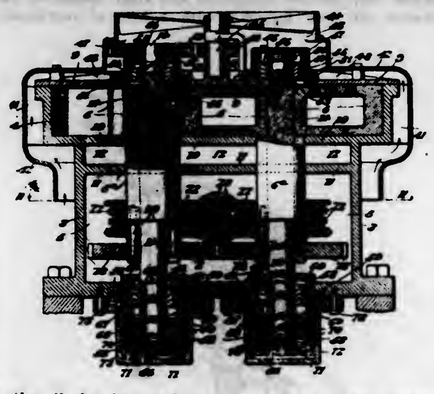
1,386,791. SELF-PUNCTURE-SEALING COVERING FOR FUEL-CONTAINERS. GEORGE J. MURDOCK, Newark, N. J. Filed Jan. 16, 1918. Serial No. 212,053. 24 Claims. (Cl. 154—46.)



1. The combination with the wall of a liquid fuel container, of a covering therefor including a layer of rubber vulcanized to an extent whereby it is rendered insoluble in the liquid contained in the container, but swelling relatively rapidly when moistened therewith.

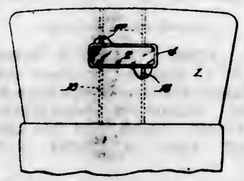
1,386,792. ROTARY BLOWER. JOHN T. NEEDHAM, Bayonne, N. J. Filed Aug. 14, 1919. Serial No. 317,506. 10 Claims. (Cl. 230—30.)

1. A blower comprising a casing having a rotor chamber provided with a removable top wall and an oil chamber below the rotor chamber, a pair of rotor shafts extending through said chambers, a pair of rotors in the rotor chamber fixed on the rotor shafts and provided with integral hubs depending into the oil chamber, a horizontal drive shaft extending into the oil chamber between the rotor shafts, a worm held to said drive shaft, and a pair of worm gears loosely mounted on the rotor shafts with-



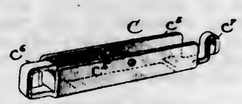
in the oil chamber meshing with said worm and detachably held to the hubs of the rotors to rotate with said hubs.

1,386,793. AUTOMOBILE-CURTAIN WINDOW. LAWRENCE C. NELSON, Detroit, Mich., and JOSEPH C. POLAN, Berwyn, Ill., assignors to McAvoy Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 23, 1920. Serial No. 418,921. 4 Claims. (Cl. 296—145.)



1. An automobile curtain window comprising a glass and a two-part frame, one of the frame parts having a groove angular in cross section opposite the marginal portion of the glass, and a gasket lodged therein conformed in cross-section to the groove at the side seated therein, and at the opposite side presenting surfaces converging to a line of seating on the glass, and means for drawing the two frame parts together with the glass interposed.

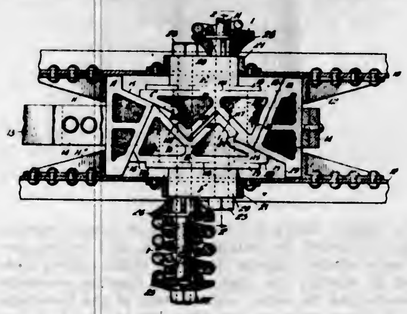
1,386,794. TYPOGRAPHICAL MACHINE. SIGURD C. NIELSEN, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Filed June 7, 1918. Serial No. 238,748. 1 Claim. (Cl. 199—25.)



As an article of manufacture, a skeletonized cam-yoke for key-board mechanisms comprising spaced side-walls arranged in parallelism; an open-sided guiding and reed-engaging finger integral therewith and outstanding beyond the ends of the side-walls and having spaced-apart upper and lower comb-engaging portions occupying planes between the side-walls and connected by a vertical portion; an integral hook-shaped tongue projecting beyond the ends of the side-walls; two flat connecting portions

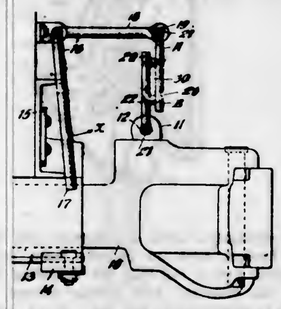
disposed between the side-walls and to which the finger and tongue are, respectively, connected and being spaced by a longitudinal slot located between the side-walls; and a cam-member disposed between and sustained by the side-walls and movable in the slot, the periphery of the cam-member extending below the plane of the connecting portions.

1,386,795. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 25, 1920. Serial No. 368,671. 20 Claims. (Cl. 213—64.)



16. In a railway draft rigging, the combination with the draft sills and stop-acting means; of end wedges, said wedges being of like construction but oppositely and unsymmetrically arranged with respect to the center line of draft; friction shoes each having friction faces cooperable with a friction face of each wedge; and means for yieldingly resisting relative separation of said shoes in a direction transverse to the line of draft upon relative approach of said end wedges.

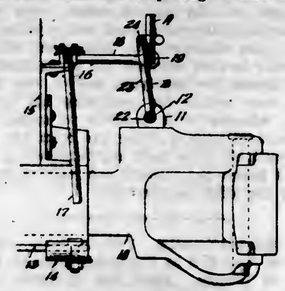
1,386,796. COUPLING-RELEASE MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 4, 1920. Serial No. 414,660. 3 Claims. (Cl. 213—59.)



1. In a coupler release mechanism having a manually operable member provided with an opening and a locking pin provided also with an opening; a connector comprising two elements each of substantially W form, one element being adapted to be centrally suspended from the opening of said member and the other element adapted to be centrally supported in a substantially upright position from the opening of the locking pin, the respective side arms of said elements being hooked over each other.

1,386,797. COUPLING-RELEASE MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 4, 1920. Serial No. 414,661. 3 Claims. (Cl. 213—59.)

1. In a coupler release mechanism having a manually operable member provided with an opening therein and a locking pin provided also with an opening therein; a connector comprising two elements each of generally U form, one element being adapted to be centrally supported in upright position within the opening of said member and



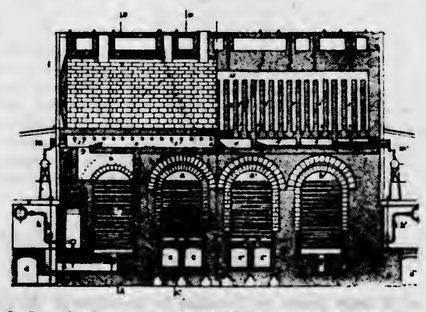
the other element being adapted to be centrally supported in an upright position within the opening of the locking pin, one of said elements having the ends of its arms hook-shaped and extended around the arms of the other element.

1,386,798. ARTIFICIAL TOOTH. RUSSELL J. PARK, St. Louis, Mo. Filed Jan. 10, 1921. Serial No. 436,342. 3 Claims. (Cl. 39—9.)



3. An artificial tooth, the posterior side of the cervical end of which is formed with a shoulder at substantial right angles to the line of bite, the anterior portion of the tooth being extended up above said shoulder, the posterior side of said cervical end being also formed with a projection following the contour of said side and being undercut to provide a groove into which the material of the plate runs when in plastic state, said material abutting against the front side of the groove whereby the tooth is securely held in position when said material hardens.

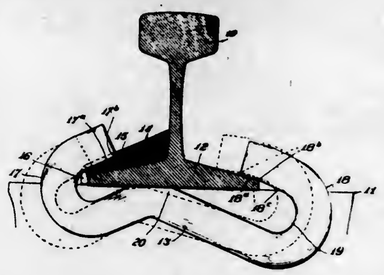
1,386,799. HORIZONTAL COKING-OVEN. OLIVIER PIETTE, Paris, France, assignor to Société Anonyme des Fours à Coke Semet-Solvay & Piette, a Corporation of Belgium. Filed Nov. 6, 1918. Serial No. 261,423. 2 Claims. (Cl. 202—9.)



2. In a horizontal coking oven, in combination, a series of coking chambers, a series of combustion chambers, a

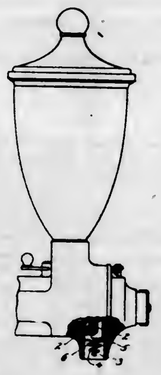
pair of regenerators disposed perpendicularly to said chambers, a series of sole flues extending parallel to said chambers, alternate sole flues being connected with the same regenerator, a series of gas chambers, means for supplying gas to said gas chambers, each combustion chamber having connections with two adjacent sole flues and with a gas chamber, the connection with the gas chamber being located between the connections with the sole flues, means for supplying gas to one of said regenerators and means for supplying air to both regenerators, whereby it is possible to supply the combustion chambers with a richer gas from the gas chambers, and with air from both regenerators, or to supply them with a poorer gas through one regenerator and with air through the other regenerator.

1,386,800. RAIL-ANCHOR. FRED A. POOR, Chicago, Ill., assignor to The P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 6, 1920. Serial No. 349,689. 33 Claims. (Cl. 238—324.)



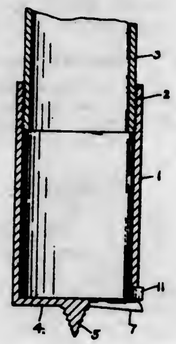
1. A device for preventing the longitudinal creep of railroad rails, comprising in combination a member which extends under the rail with its ends projecting over the upper surfaces of the base flanges at opposite sides of the rail, and means associated with one of said base flanges providing a surface for one end of said member to bear upon which surface is of greater angularity than that of the base flange with which it is associated.

1,386,801. FINGER-GUARD. THOMAS F. RATAICZAK, Troy, Ohio, assignor to The Hobart Manufacturing Company, Troy, Ohio, a Corporation of Ohio. Filed Nov. 29, 1920. Serial No. 427,146. 8 Claims. (Cl. 83—8.)



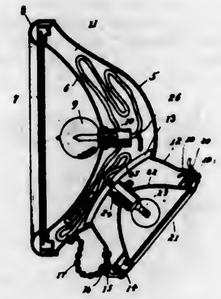
1. A finger guard for conduits in machines of the general character noted, comprising a tapered helix set into said conduit.

1,386,802. SAMPLE-TAKING DRILL. WILLIAM E. REMBERT, Gilliam, La. Filed July 3, 1920. Serial No. 393,886. 3 Claims. (Cl. 255—67.)



1. A sample taking bit comprising a tubular member having an integral flat bottom thereon, said bottom having a sector-shaped opening therein, a radial cutting blade formed by bending one edge of said opening outwardly and sharpening the same, a short blade at the lower side adjacent the bottom to cut the side of the hole and means to close said sector-shaped opening for the purpose described.

1,386,803. TRACTOR-LAMP. CHARLES D. RYDER, Covington, Ky., assignor to The Corcoran-Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Oct. 16, 1918. Serial No. 258,381. 3 Claims. (Cl. 240—7.)

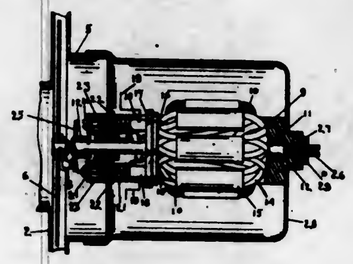


1. In combination with a standard and lamp casing mounted thereon, with an electric lamp bulb mounted in the casing, and a reflector for throwing light in one direction, the reflector and casing shaped to provide ample space intermediate the two, of an auxiliary casing, with electric lamp bulb and reflector therefor, with the light conducting wires of considerable length and stored between the main casing and main reflector, and means for detaching the auxiliary lamp for use separately.

1,386,804. HORN. HERMAN R. SAXON, Toledo, Ohio, and CARL J. SCHWARZE, Adrian, Mich., assignors, by direct and mesne assignments, of one-half to The Schwarze Electric Company, Adrian, Mich., a Corporation of Michigan, and one-half to Willys Corporation, Toledo, Ohio, a Corporation of Delaware. Filed Apr. 17, 1916. Serial No. 91,755. 8 Claims. (Cl. 177—7.)

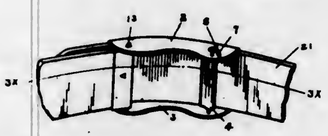
1. In a device of the class described, a casing, a diaphragm carried thereby, an electric motor in said

casing, a shaft for said motor having means at one end for engaging and vibrating said diaphragm, a thrust bearing for the opposite end of said shaft and means



for making electrical connection with the rotary element of said motor and for pressing the same away from said diaphragm and against said thrust bearing.

1,386,805. BELT-BUCKLE. GEORGE F. SCHEER, Rochester, N. Y., assignor to Scheer Manufacturing Company, Inc., Rochester, N. Y., a Corporation of New York. Filed June 25, 1920. Serial No. 391,754. 1 Claim. (Cl. 24—191.)



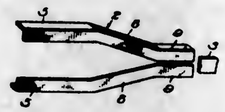
A belt buckle having a plate with flanges thereon, a grip mounted to swing between the flanges and against said plate, said grip having a gripping surface toward the plate having the shape of an involute, said grip having zones of serrated teeth on each side thereof, and a depression in the middle.

1,386,806. TOILET-CASE. JOSEPH JOEL SCHMERLER, New York, N. Y. Filed Apr. 30, 1919. Serial No. 293,732. 1 Claim. (Cl. 132—84.)



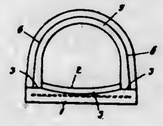
In combination with a brush and a handle therefor substantially alined with a brush, a case comprising an elongated tubular member having one end open, an annular member arranged within said open end portion of the member and through which the handle is loosely directed the outer extremity of the handle and the bore of the annular member being provided with coacting means for holding the brush at the limit of its movement away from the tubular member, a removable plug closing the opposite end portion of the tubular member, and an article engaging member in swiveled connection with the inner face of the plug.

1,386,807. BUMPER FOR VEHICLES. IRVING A. SIBLEY, Jr., Chicago, Ill. Filed May 16, 1921. Serial No. 469,754. 6 Claims. (Cl. 293—55.)



5. A vehicle bumper comprising an impact member consisting of a central section, and end sections adapted for attachment to the vehicle, said central section being formed of angle bars spaced apart vertically intermediate their ends, and meeting in edgewise abutting contact throughout their ends, the abutting edges of said end portions being welded together to form channel shaped end portions adapted to receive said end sections.

1,386,808. CONSTRUCTION OF CONDUITS FOR DRAINAGE AND SIMILAR PURPOSES. WILLIAM HENRY STEVENS, Hamilton, New Zealand. Filed Sept. 17, 1920. Serial No. 410,886. 1 Claim. (Cl. 72—51.)

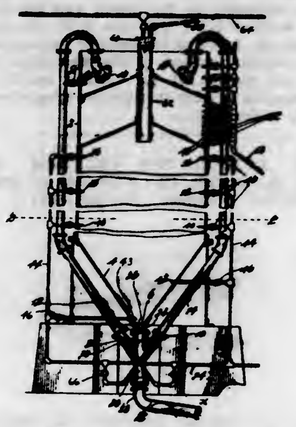


A conduit comprising a series of flat blocks arranged end to end and provided with substantially flat bottoms, the central portion of the upper side of each of said blocks being depressed longitudinally and the side edges of the upper face of said blocks being longitudinally recessed, the abutting ends of said blocks having adjacent recesses forming grooves designed to receive sealing material, a series of one piece arc-shaped members of no greater width than the blocks arranged end to end and placed on the blocks with the lower edges of said members engaging the recesses in the side edges of the upper faces of the blocks, the abutting edges of the members being arranged intermediate the abutting edges of the blocks, and the abutting edges of the members being provided with adjacent under cut recesses forming substantially dove tailed grooves, and sealing material arranged in the last named grooves for sealing the joints at the ends of the members.

1,386,809. AGITATOR. THEODORE F. TAYLOR, Philadelphia, Pa. Filed Nov. 27, 1918. Serial No. 264,285. 11 Claims. (Cl. 23—31.)

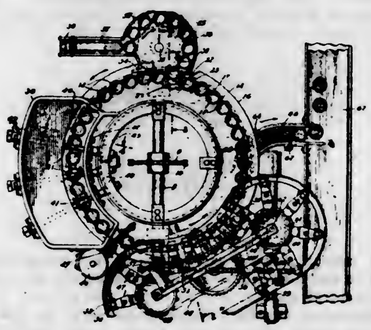
1. In leaching apparatus, the combination with a liquid holding tank, of a conductor arranged to conduct liquid from the lower part of said tank and to discharge

it upon the surface of the liquid in said tank, means for effecting such movement of the liquid, and means for



causing said discharged liquid to be sprayed through the air above the surface of the liquid in the tank.

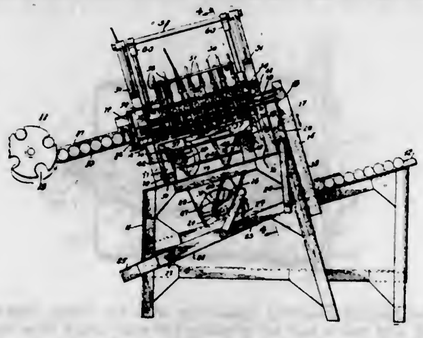
1,386,810. MACHINE FOR FILLING AND PACKING CONTAINERS. JAMES C. THOM, Chicago, Ill., assignor to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 26, 1921. Serial No. 439,973. 20 Claims. (Cl. 226—71.)



1. In a machine for filling containers with a charge, a conveyer for carrying a plurality of containers from a container feeding station through a charge filling station and to a delivery station, said conveyer including a movable support for the containers, provisions movable with the conveyer and having elements adapted for alinement with the filling openings of the containers to provide enlarged filling channels for the containers, the said support for the containers being axially movable relative to the said elements to provide the enlarged filling channels.

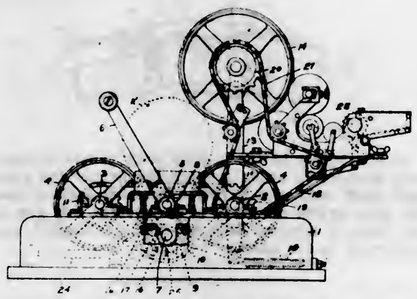
1,386,811. METHOD AND APPARATUS FOR MARKING ARTICLES. JAMES C. THOM, Chicago, Ill., assignor to Combination Machine Company, New York, N. Y., a Corporation of Delaware. Filed Dec. 27, 1920. Serial No. 433,284. 35 Claims. (Cl. 101—11.)

1. The method of marking articles handled in row formations which consists in first selecting one article of the row while maintaining the row formation and marking such article, and then successively selecting and marking the remaining articles in the row; the



articles presenting the same row formation before, during and after the marking operations.

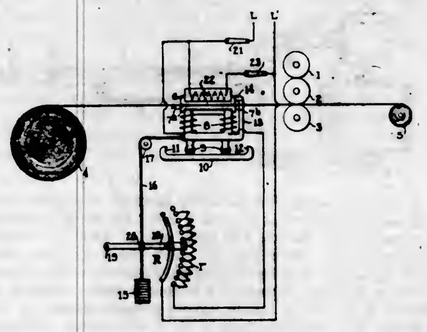
1,386,812. MACHINE FOR MARKING CYLINDRICAL ARTICLES. GEORGE S. THOMPSON, Pittsburgh, Pa., assignor to James H. Matthews & Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Feb. 2, 1921. Serial No. 441,787. 2 Claims. (Cl. 101—38.)



1. In a machine for marking cylindrical articles, the combination of a set of drums rotatable in stationary bearings and adapted to support an article resting upon them and by rotation to effect rotation of such article, a printing drum rotatable in bearings which are reciprocable relatively to the stationary bearings named, said printing drum, by virtue of such reciprocability of its bearings, being movable to and from a position of tangency with an article of given size resting upon said stationary bearings, the said printing drum being of greater circumference than the article with which it is adapted to make contact as aforesaid, means for rotating all of said drums continuously and in uniform direction and at equal surface speeds, and for reciprocating said printing drum at predetermined intervals as rotation progresses, the reciprocating feature of the means last named effecting reciprocation of the printing drum from and return to such position of tangency with an article under treatment, during so much of a rotation of the printing drum as the interval by which its circumference exceeds the circumference of the article under treatment.

1,386,813. TENSIONING MECHANISM. FRANK P. TOWNSEND, Milwaukee, Wis. Filed Mar. 29, 1917. Serial No. 158,303. 8 Claims. (Cl. 273.)

1. In a tensioning mechanism for material being fed to a receiving machine, in combination, a movable frictional member to bear upon the material with a tendency to move therewith and means to oppose movement of said member and to vary the pressure thereof upon the



material in response to said member to thereby maintain its frictional effect upon the material substantially constant under varying conditions for a corresponding substantially constant tension on the latter.

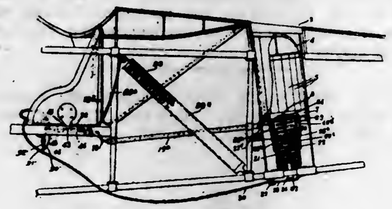
1,386,814. TOWEL-DISPENSING DEVICE. SALLY VAN DER WYK, Milwaukee, Wis. Filed May 7, 1917. Serial No. 166,825. Renewed Dec. 30, 1920. Serial No. 434,111. 8 Claims. (Cl. 45—32.)



1. A towel dispensing cabinet having a rack mounted therein, towels having bushings in one corner thereof slidably mounted on the rack, spring means intermediate the innermost towel and the inner end of said rack, a spring dog fixed in the outer end of the rack to prevent unauthorized dislodgment of the towels, and means for depressing the dog to selectively supply said towels.

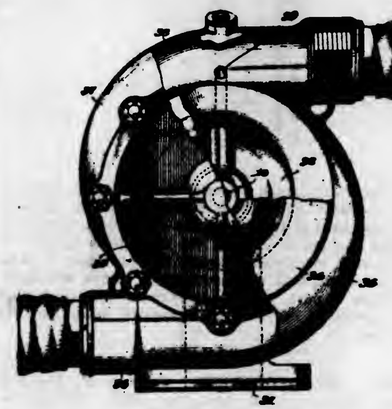
1,386,815. SAFETY DEVICE FOR AERONAUTICAL MACHINES. SOLOMON L. VAN METER, Jr., Lexington, Ky. Filed June 28, 1919. Serial No. 307,362. 18 Claims. (Cl. 244—21.)

1. In an aeronautical machine, the combination, a parachute carried by said machine, and ejector mechanism cooperating with the parachute, means for securing an aviator in said machine, connections between the aviator and the parachute and means connecting the ejector mechanism to the securing means, whereby when said ejector mechanism is actuated the parachute will be cast



off and said mechanism will act to release said securing means and to free the aviator from said machine.

1,386,816. PUMP FOR MOTOR-VEHICLES. JESSE G. VINCENT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 11, 1919. Serial No. 270,660. 2 Claims. (Cl. 253—200.)



1. A centrifugal pump adapted for the cooling system of a V-type motor having a single inlet pipe and having a central chamber to which the water is delivered axially from said inlet pipe, a single impeller element in said pump and two diametrically opposite delivery pipes leading from the chamber of said impeller element.

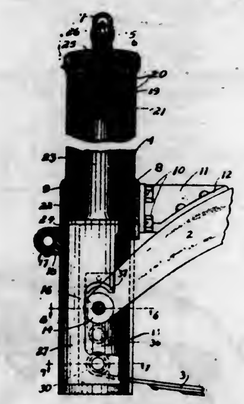
1,386,817. FOUNTAIN OR RESERVOIR PEN. ALICE EDNA WADE, Rock Ferry, England. Filed Apr. 5, 1920. Serial No. 371,417. 1 Claim. (Cl. 120—49.)



A reservoir pen comprising a nipple having a longitudinal guide slot formed in the inner wall thereof; a screwthreaded portion formed on the exterior of said nipple; an ink barrel screwed on said nipple; a rear

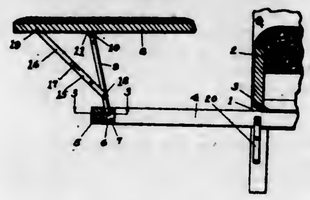
section screwed on said nipple against said ink barrel; a revoluble head-piece; a sleeve connected with said head-piece and housed in said nipple and having a helical slot formed therein; a nib-carrying rod, and a lateral pin on said nib-carrying rod projecting through said sleeve slot and engaging in the longitudinal guide slot of said nipple.

1,386,818. PNEUMATIC SHOCK-ABSORBER. CHARLES T. WALTER, Chicago, Ill. Filed July 17, 1919. Serial No. 311,664. 4 Claims. (Cl. 267—32.)



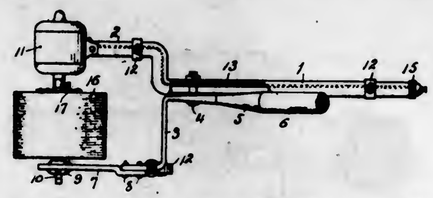
2. A pneumatic shock absorber comprising a casing, a plunger slidable therein, a circumferentially grooved resilient mechanism in said casing above said plunger, a wire band engaged in each of the mechanism grooves to reinforce said mechanism, means for providing a compressed air cushion in said mechanism, and a core member forming a part of said mechanism and projecting axially therein to serve as an equalizing means for the air cushion.

1,386,819. CHAIR-FOOTREST. JERROLD F. WALTON, Sturgis, Mich. Filed Jan. 19, 1920. Serial No. 352,493. 2 Claims. (Cl. 155—170.)



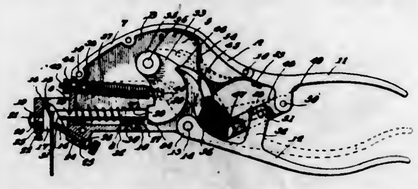
1. The combination with a chair having opposed ways below its seat, of foot rest slide bars disposed in said ways, a cross bar connecting the front ends of the slide bars, angled corner irons disposed in the angles of said cross and slide bars and secured thereto, said corner irons having pivot openings in their arms secured to the slide bars, a foot rest, a bail-like support for said foot rest pivotally mounted and journaled in said corner iron pivot openings and adapted to rest against their arms secured to said cross bar when erected and to collapse between the slide bars, and a collapsible brace consisting of links pivotally connected to each other and to said foot rest and foot rest support.

1,386,820. PORTABLE GRINDING AND POLISHING MACHINE. THOMAS W. WATKINS, Kansas City, Mo. Filed Apr. 5, 1920. Serial No. 371,414. 4 Claims. (Cl. 51—176.)



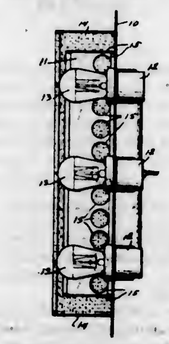
2. In a grinding and polishing machine, a support having casters adapted to rest on a floor, the support having a tubular body having two arms one of which is tubular and interiorly communicating with the body, the other arm having a detachable portion provided with a shaft bearing, the last named arm having a socket adapted to receive a handle, a motor having a body carried by the tubular arm and provided with a horizontal armature shaft, said shaft bearing portion being arranged to detachably support said shaft, the shaft being arranged to have attached thereto intermediate of said body and said shaft bearing portion a polishing or abrading device, and electrical connecting means connected with said motor and located in said tubular arm and tubular body, substantially as set forth.

1,386,821. SAW-SET. RAYMOND L. WEBB, Atchison, Kans. Filed Mar. 1, 1920. Serial No. 362,232. 7 Claims. (Cl. 76—67.)



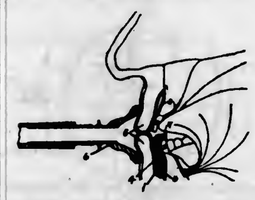
1. A saw set comprising a saw guide, a sliding plunger arranged to move into the saw guide, a spring pressed hammer for forcibly moving the plunger into the saw guide, a rigid handle, a movable handle, and means operated by the movable and rigid handles for operating the hammer.

1,386,822. ELECTRIC SIGN. WILLIAM C. WEBB, Atlantic City, N. J. Filed May 7, 1921. Serial No. 467,596. 3 Claims. (Cl. 40—130.)



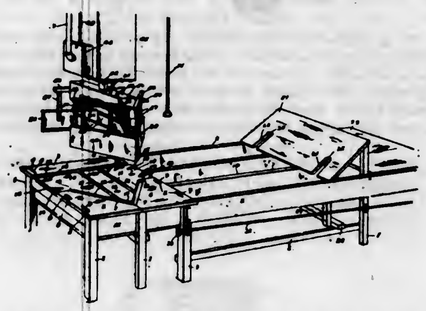
1. An illuminated figure for electric signs comprising an inner, approximately trough-shaped body, an outer trough-shaped body surrounding the first named trough-shaped body and extending slightly beyond the latter, and illuminating means disposed within the inner trough-shaped body, there being perforations through the wall of the inner trough-shaped body adjacent the bottom thereof whereby the light of said lamps may be discharged into the space between the outer and inner bodies to thereby illuminate the walls of said space.

1,386,823. DEVICE FOR PROTECTING THE LIPS OF PLAYERS OF WIND MUSICAL INSTRUMENTS. HARRY W. WETMORE, San Jose, Calif. Filed Dec. 26, 1919. Serial No. 347,325. 3 Claims. (Cl. 84—465.)



1. A device of the character described consisting of a piece of hard rubber that may be cast into shape, one side of which is adapted to fit against the labial surface of the teeth and gums and the other side resting against the inside of the lips of a person's mouth, said piece of hard rubber having a plurality of ridges on one side fitting between the teeth adapted to serve as anchors for holding the device in place and presenting on the other side a smooth surface for the lip to rest against.

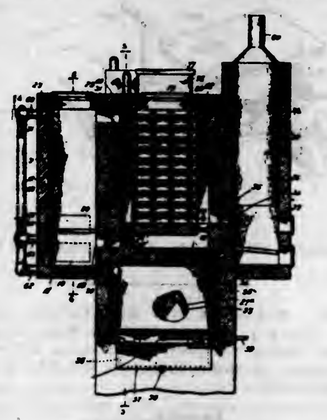
1,386,824. BUTCHERING-MACHINE. JOSEPH WHITE, St. Louis, Mo. Filed Nov. 20, 1920. Serial No. 425,504. 6 Claims. (Cl. 17—30.)



1. In an apparatus for the purpose set forth, the combination of a plurality of supporting plates having their edges in spaced relation, a hot water vat disposed below said plates, means for feeding a carcass onto said plates, a plurality of knives disposed above the plates, and means for driving said knives through the carcass and through the spaces between said plates into the vat.

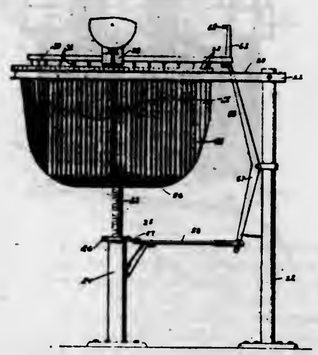
1,386,825. APPARATUS FOR MAKING GAS. WILLIAM D. WILCOX, Chicago, Ill. Filed Feb. 23, 1918. Serial No. 218,799. 19 Claims. (Cl. 48—73.)

1. A gas making apparatus comprising a generator, a secondary combustion chamber communicating with the upper portion of said generator, a separate coking chamber adjacent to said secondary combustion chamber and adapted to be heated therefrom, means for admitting steam into said secondary combustion chamber, a duct connecting the lower portion of said generator with said coking chamber, and controlling devices for controlling the flow of gases through the apparatus, whereby blast gases from the generator may be caused to flow through said secondary combustion chamber, and gases formed in



said secondary combustion chamber may be caused to flow into the upper portion of the generator and thence downward through the material therein to said coking chamber.

1,386,826. WEAVING-MACHINE. ALFRED WILD, Milwaukee, Wis. Filed Nov. 19, 1919. Serial No. 339,147. 10 Claims. (Cl. 139—2.)

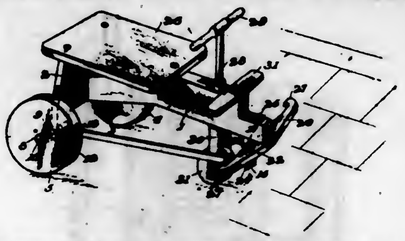


1. A machine of the class described, comprising a supporting frame, a plurality of warp carrying members carried thereby, spring means yieldably holding said members in a mid position, a weft carrying member mounted to travel along the frame, means for moving the weft carrying member along the frame, and means carried by the weft carrying member for moving said warp carrying members transversely from mid position to stagger the same whereby weft carried by said weft carrying member may be interwoven between the warps carried by the warp carrying members.

1,386,827. CHILD'S VEHICLE. CALVIN C. WILLIAMS, Philadelphia, Pa. Filed Nov. 5, 1919. Serial No. 335,905. 3 Claims. (Cl. 208—33.)

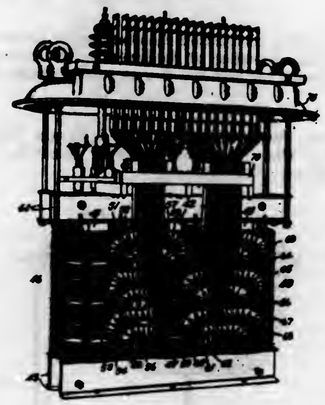
1. A child's vehicle comprising a body, wheels supporting the rear of the body, a seat upon the body, a steering post mounted upon the body in advance of the seat, a ground wheel carried by the steering post, one of the rear wheels having a spindle provided with a crank, a transverse oscillatory foot member mounted upon the

body in advance of the steering post, a pin rotatably fitted through the said foot member, and a pitman pivot-



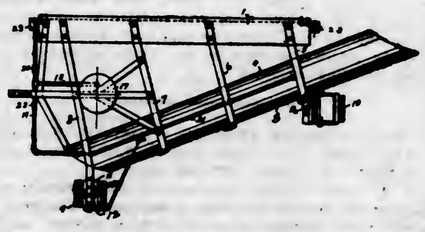
ally connected with the pin and connected with the said crank.

1,386,828. WINDINGS FOR ELECTRICAL APPARATUS. EARLE G. WINSTON, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 16, 1920. Serial No. 410,735. 4 Claims. (Cl. 175—362.)



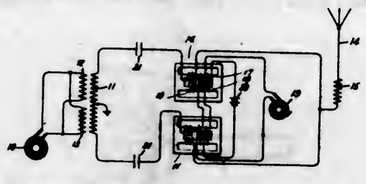
1. An electrical apparatus comprising in combination, a core provided with a plurality of legs, and windings on each of said legs having portions provided with leads adapted for interlaced connection, a portion on one leg being wound in a direction opposite that of another portion thereon, the leads of said portions being arranged in different groups whereby a sequence of alternate polarities among the leads is accomplished without cross-over connections.

1,386,829. DITCH-FILLING MACHINE. WILLIAM C. WITT, Alvin, Tex. Filed Oct. 14, 1919. Serial No. 330,647. 4 Claims. (Cl. 37—5.)



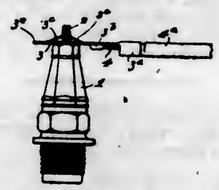
1. A machine of the character described including a land slide, a scraper blade spaced therefrom and converging rearwardly, relative thereto, cross braces for fixing said land slide and scraper blade in position relative to each other, and supporting rollers for supporting said scraper blade in position relative to ground surface, said supporting rollers being adjustable vertically relative to the scraper blade.

1,386,830. METHOD OF AND APPARATUS FOR PRODUCING AND DISTRIBUTING ELECTRIC-CURRENT WAVES OF RADIOFREQUENCY. ERNST F. W. ALEXANDERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 5, 1915. Serial No. 43,725. 36 Claims. (Cl. 250—17.)



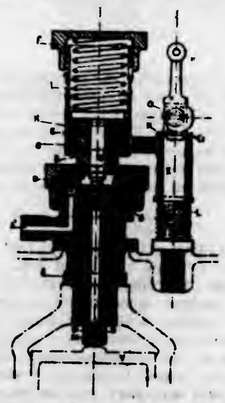
36. The method of preventing the radiation of the unmodulated component of a signaling wave which consists in opposing said component by an equal wave.

1,386,831. ELECTRIC-TERMINAL CONNECTOR. ALBERT L. AUSTIN, Cleveland, Ohio. Filed Jan. 31, 1920. Serial No. 355,464. 4 Claims. (Cl. 173—269.)



1. A connector, comprising a clip provided with oppositely arranged terminal binding tongues having their free ends extending toward and into proximity with each other to engage a threaded member with a toggle-like action when forced over and turned thereon and to be spread apart and detached therefrom when said clip is bent.

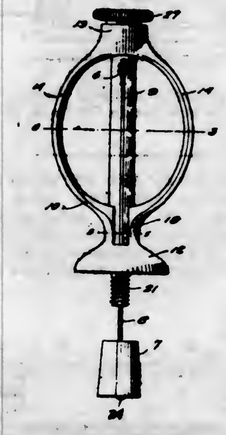
1,386,832. FUEL-INJECTOR FOR TWO-STROKE HIGH-COMPRESSION MOTORS. LOUIS BAILLY, Columbus, Ohio, assignor to The Columbus Oil Engine Company, Columbus, Ohio. Filed Feb. 28, 1920. Serial No. 362,109. 4 Claims. (Cl. 123—32.)



1. The combination in a fuel injector having an inlet and controlling valve, of a pair of axially alined tele-

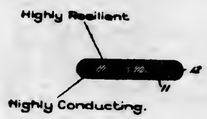
scoping pump pistons, one of which is formed as a nozzle injector and the other as a needle valve controlling said nozzle, said pistons being movable jointly, and means for normally holding said needle valve to its seat in the nozzle injector.

1,386,833. LIQUID-LEVEL GAGE FOR AUTOMOBILE-RADIATORS. CLARENCE A. BEARDMORE, Annapolis, Md., assignor of one-half to Winson G. Gott, Annapolis, Md. Filed Jan. 28, 1920. Serial No. 354,543. 6 Claims. (Cl. 73—82.)



1. In combination with a radiator head having a liquid inlet opening into its wall, of a gage including an indicator, a buoyant body in said radiator movable in the current of liquid delivered through said inlet to be disturbed laterally and vertically thereby and movable above said inlet, and a device operatively connecting said buoyant body and indicator to actuate the latter by movement and disturbance of the former, said indicator arranged to indicate high liquid level in the radiator when said buoyant body is above said inlet.

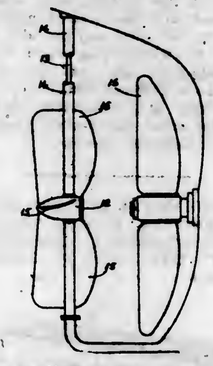
1,386,834. TORSION-SPRING. ALBERT R. BECKERT, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Oct. 21, 1919. Serial No. 332,171. 2 Claims. (Cl. 171—95.)



1. A torsion spring adapted to serve both as a torque producing means and as an electrical conductor, comprising a comparatively thin casing of highly resilient material, and an inner core of highly conducting material.

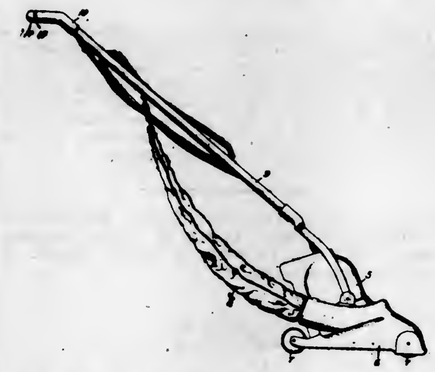
1,386,835. REGENERATIVE COUNTER-PROPELLER FOR MARINE VESSELS. RALPH WHITEHEAD BIRKETT, Sutton, England. Filed Jan. 24, 1920. Serial No. 353,851. 3 Claims. (Cl. 115—42.)

1. In a device of the class described, in combination with a screw propeller, a central hub supported from the structure of a vessel and arranged centrally behind the said screw propeller, a plurality of stationary detachable blades radiating from said central hub, and disposed with their forward edges facing approximately in the direction of travel and secured to said hub and to the structure,



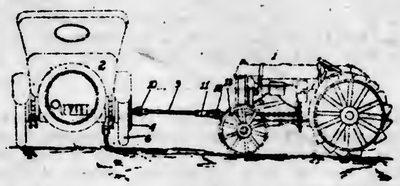
with means for readjusting the angular disposition of their plane surfaces to any desired angle in relation to the axial line of the shaft of the said screw propeller.

1,386,836. SWITCH FOR ELECTRIC VACUUM-CLEANERS. OTTO BAINTZENHOFF, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company, Inc., a Corporation of New York. Filed June 10, 1920. Serial No. 388,011. 3 Claims. (Cl. 200—157.)



1. In an apparatus of the character described, the combination with a handle having a switch at the outer end thereof, of a switch cap for the switch comprising an inner part of hard material and an outer part of a yieldable, non-breakable material.

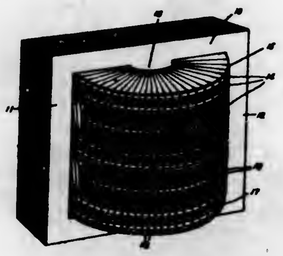
1,386,837. CRANKING DEVICE FOR TRACTORS. LEE BROWN, Modesto, Calif. Filed Aug. 28, 1920. Serial No. 406,719. 1 Claim. (Cl. 74—106.)



In combination with a tractor having a shaft projecting therefrom and connected to the crank shaft of the motor

thereof, a power-driven vehicle positioned ahead of and substantially at right angles to the tractor, one of the driven wheels of the vehicle being substantially concentrically alined with the tractor-shaft, a bracket removably fitted to the wheel and provided with an orifice axially thereof, the wheel being raised from the ground, a shaft removably fitted into said orifice to turn with the bracket and wheel, a sleeve slidable on said shaft but turnable therewith and connected with the tractor-shaft to turn the same, and flexible joints interposed in the first named shaft and sleeve.

1,386,838. WINDING FOR ELECTRICAL APPARATUS. LOCKE H. BURNHAM, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed July 17, 1918. Serial No. 245,330. 4 Claims. (Cl. 175—356.)



1. In an electrical apparatus, the combination with a core of magnetic material, of electrical windings assembled thereon comprising coils disposed in spaced relation and arranged in groups, and insulating material arranged in layers about a group of said coils; said insulating material having a window formed in its cylindrical sides thereby exposing the edges of said coils to a cooling and ventilating medium.

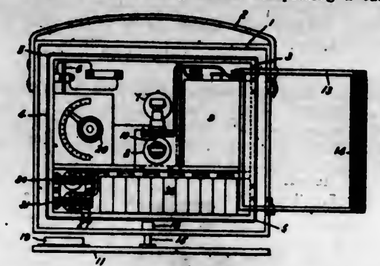
1,386,839. RELEASING DEVICE FOR MOTION-PICTURE-FILM REELS. ELIJAH M. CHASE, Cheyenne, Wyo. Filed Jan. 11, 1921. Serial No. 436,493. 2 Claims. (Cl. 242—74.)



1. A device of the class described including a spring member secured at its central portion to the periphery of a moving picture reel hub, said spring having upwardly bent portions adjacent its center whereby the ends of the spring will normally engage the periphery of the hub, a rod extending through the hub, curved arms carried by the rod and extending from opposite directions, and means for rotating said rod whereby the ends of said arms will be projected through openings in the hub to engage the ends of the spring and remove them from engagement with the periphery of the hub.

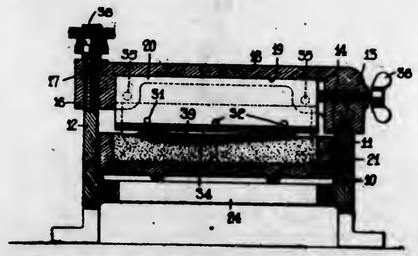
1,386,840. RADIOSIGNALING SYSTEM. REGINALD CHARLES CLINKER, Rugby, England, assignor to General Electric Company, a Corporation of New York. Filed Nov. 29, 1919. Serial No. 341,453. 4 Claims. (Cl. 250—14.)

1. A receiving apparatus for radio signals comprising a casing, a receiving antenna wound upon a frame within said casing, a receiving circuit associated with said receiving coil, said receiving circuit comprising a tuning



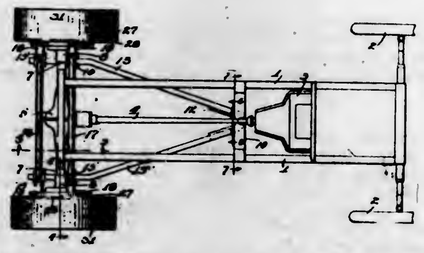
condenser and a detector and said tuning condenser and detector being mounted within the frame upon which the receiving coil is wound.

1,386,841. METHOD OF AND APPARATUS FOR MAKING AEROFOILS AND THE LIKE. JOSEPH G. COFFIN, Garden City, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Mar. 14, 1919. Serial No. 282,682. 23 Claims. (Cl. 18—48.)



1. The method of forming and producing aerofoils or the like which consists in first providing a bed of paraffin or the like, next scraping the bed until one surface thereof approximates one surface of the finished aerofoil, next coating the scraped surface of the bed with a substance in turn susceptible of being scraped, next scraping the coating substance until the surface thereof remote from the bed approximates the other surface of the finished aerofoil, and finally removing the scraped coating substance from the bed in the form given it by the bed in conjunction with the scraping.

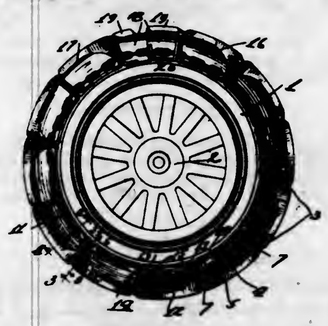
1,386,842. AUTOMOBILE TRACTOR ATTACHMENT. ALBERT E. COOK, Evanston, and THOMAS VAN TUYL, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Filed June 14, 1918. Serial No. 240,100. 4 Claims. (Cl. 180—16.)



1. An automobile tractor attachment embracing supporting means, a plurality of transverse brace members

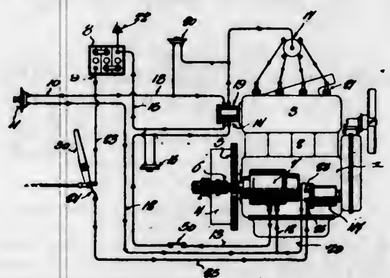
secured thereto, gear casings secured to said brace members, speed reduction gear mechanisms in said gear casings, and wheel members rotatably mounted on said gear casings and connected with said speed reduction gear mechanisms to be driven thereby at a rate of speed different from that received by said speed reduction gear mechanisms.

1,386,843. TRACTOR-TREAD FOR PNEUMATIC-TIRE WHEELS. ALBERT EUGENE COOK, Evanston, and THOMAS VAN TUYL, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Filed May 14, 1920. Serial No. 381,347. 2 Claims. (Cl. 152—16.)



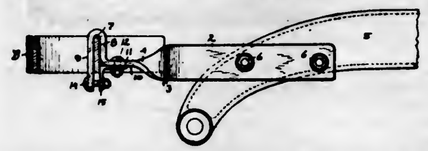
2. In a device of the class described, a plurality of hingedly connected main tread members, apertured flanges formed thereon, end tread members connected with the end main tread members, an apertured lug formed on each of said end tread members, webs formed on said main tread members and on said end tread members, chains on opposite sides of said device engaged through the apertures in said flanges and lugs, thread bolts secured on the ends of said chains, and means engaged on said thread bolts adapted to be adjusted to tension said chains to secure the tread members in position.

1,386,844. AUTOMATIC OPERATING MEANS FOR INTERNAL-COMBUSTION ENGINES. HENRY K. COWEN, Milwaukee, Wis. Filed Mar. 1, 1920. Serial No. 362,622. 4 Claims. (Cl. 290—41.)



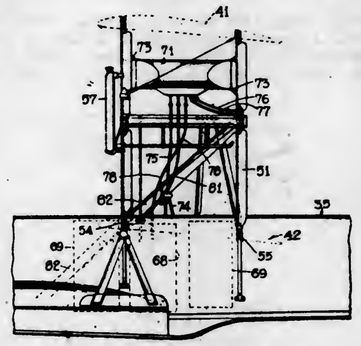
1. In an apparatus of the class described, the combination with an internal combustion engine and a vehicle operated thereby, of means for automatically and successively starting the operation of the engine when the same attains a certain predetermined temperature, and stopping the operation thereof when a second predetermined temperature is reached, comprising an electric starting motor, an ignition circuit, a starting motor circuit, a source of current for said circuit, a thermostatically controlled switch for each of said circuits, for automatically closing the circuits when the engine is at a predetermined temperature, and automatically opening the circuits when the latter attains a second predetermined temperature, means for automatically opening the starting circuit when the engine reaches a predetermined speed, and means for preventing operation of the first mentioned means when the vehicle is moving.

1,386,845. BRACKET FOR AUTOMOBILE-BUMPERS. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed May 20, 1921. Serial No. 471,164. 5 Claims. (Cl. 293—55.)



5. A bracket for automobile bumpers, comprising a flat bar having one end portion twisted at right angles to the plane side of its opposite end and bent upwardly and downwardly at the front end of its twisted portion to provide a relatively long tongue and a recess at the base of said tongue, a right-angled clamping member affixed to said twisted portion of the bracket and extending downwardly parallel into the free end of said tongue, and a clamping bolt uniting said tongue and member.

1,386,846. FUEL-SUPPLY SYSTEM FOR AIRCRAFT AND SIMILAR APPARATUS. GLENN H. CURTISS, Garden City, and HENRY KLECKLER, Hammondsport, N. Y., assignors to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y., a Corporation of New York. Original application filed Dec. 23, 1916, Serial No. 138,633. Divided and this application filed July 17, 1920. Serial No. 397,092. 3 Claims. (Cl. 158—36.)

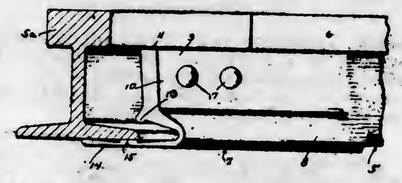


1. In an apparatus of the type set forth, the combination of a framework, a motor, a motive fuel service tank carried by the framework, supply tanks likewise carried by the framework, the base end of each supply tank being elevated above the corresponding end of the service tank, a gravity feed line connecting the supply tanks with the service tank, a gravity tank elevated above the motor, and a connection between the service tank and the gravity tank for continuously elevating fuel to the gravity tank during operation of the motor.

1,386,847. RAIL-JOINT. GUY ANTONIO DELISSIO, Delmont, Pa. Filed May 18, 1921. Serial No. 470,716. 1 Claim. (Cl. 238—231.)

A rail joint of the character described embodying a rail having a socket member formed on one end thereof,

said socket member being open at one end and its top, the inner walls of said socket member being substantially concave, the top and inner edges of said walls being adapted to engage the rail, ridges projecting from the walls of said socket at the junction of the web of the



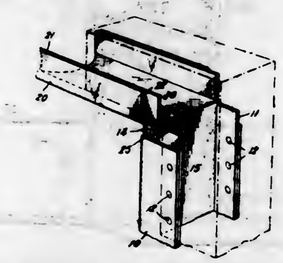
rail with the base of the rail, a ridge projecting from the intermediate portion of the bottom of the socket for engagement with the base of the rail, and means for urging said ridges, the top and inner edges of the walls into binding engagement with the rail end within the socket.

1,386,848. HAND-CASE FOR LADIES. OSCAR DINGFELD, Brooklyn, N. Y. Filed Jan. 22, 1921. Serial No. 439,228. 3 Claims. (Cl. 220—1.)



1. In a hand case the combination of a basil or frame and a cover plate of dissimilar materials, connected to each other by means of a mechanical joint, said basil being of material strong enough to stand the repeated strain of opening and closing the case, and the material of the cover plate being adapted to permit delicate ornamentation thereon.

1,386,849. ELECTRICAL APPARATUS. WILLIAM O. DWYER, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Nov. 17, 1920. Serial No. 424,779. 3 Claims. (Cl. 175—361.)



1. In an electrical apparatus the combination with a winding and a part to be insulated therefrom, of an insulating barrier disposed between said winding and part comprising spaced members provided with sides partially enveloping said part and having lateral openings therein to afford circulation of a cooling and ventilating medium.

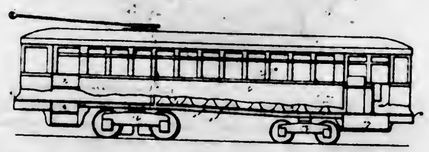
1,386,850. ART OF MAKING LOW-CUT SHOES. SEXTUS A. EDDINS, Brockton, and WILLIAM H. BAYNARD, Boston, Mass. Original application filed Aug. 29, 1919, Serial No. 320,686. Divided and this application filed Nov. 28, 1919. Serial No. 341,086. 3 Claims. (Cl. 12—145.)

1. The improved process of making low cut shoes which consists in assembling the upper materials on the last, pulling over the toe portion, and clamping the topmost portion of the upper tightly along the sides of the



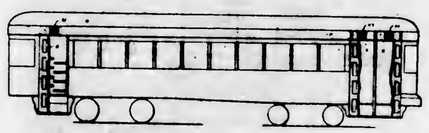
last for a substantial length between the throat of the vamp and the heel to hold the edge of the upper in alinement during the lasting operation.

1,386,851. RAILWAY-CAR. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 21, 1921. Serial No. 454,028. 2 Claims. (Cl. 105—329.)



1. In a passenger car, the combination, with a ramped floor extending from and over one truck to and over the other, the lower end joining and contiguous with the forward platform floor and the higher end joining and contiguous with the rear platform floor, of a motor-truck located essentially rearward of the higher end of the ramped portion and another truck located essentially forward of the lower end of the ramped portion.

1,386,852. RAILWAY-CAR. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 21, 1921. Serial No. 454,029. 15 Claims. (Cl. 105—341.)

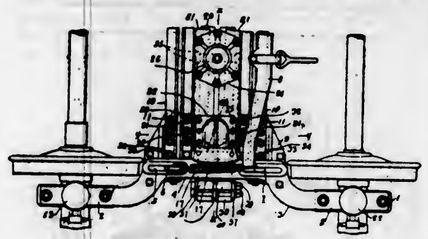


1. A one-way one-man car having front and rear doorways, and sign mechanism adapted to exhibit an entrance legend at the front doorway and an exit legend at the rear doorway, or vice versa, so that such car may be used as a pay as you enter car when the entrance legend is exhibited at the front door and the exit at the rear or as a pay as you leave car when the entrance legend is at the rear and the exit legend at the front.

1,386,853. RAILWAY-CAR TRUCK. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 21, 1921. Serial No. 454,032. 14 Claims. (Cl. 105—190.)

1. In a car truck, the combination, with side beams having an inner portion located in a plane inward of

that of the outer portions, of a bolster adapted to sustain a car body, a transverse leaf spring support secured to



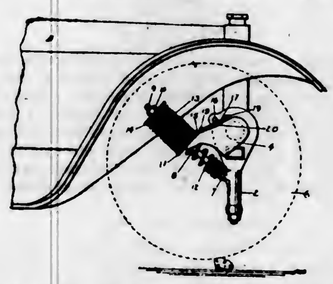
the bolster near the middle portion and having its ends secured to the side beams.

1,386,854. BOND-WIRE SUPPORT. EDWARD A. EVERETT, New York, N. Y. Filed July 30, 1919. Serial No. 314,383. 3 Claims. (Cl. 173—262.)



3. In combination, a rail joint, bond wires for said joint, a support for said bond wires consisting of a comparatively rigid strip of half-round section, the flat side of said strip placed adjacent said rail joint and conforming to the contour thereof, a partially closed eye on the upper end of said strip, said eye inclosing said bond wires and capable of being closed when said bond wires are in place.

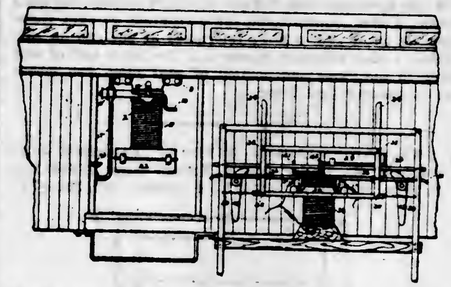
1,386,855. SPRING-CONTROLLED LINK FOR VEHICLES. HUGH EWING, Columbus, Ohio. Filed Dec. 4, 1919. Serial No. 342,350. 2 Claims. (Cl. 301—133.)



1. In a vehicle wheel structure, the combination of a rearwardly and upwardly swinging wheel axle, a stop for limiting the rearward and upward movement of such axle, and an interposed spring which is free at either of its ends for lengthening or shortening.

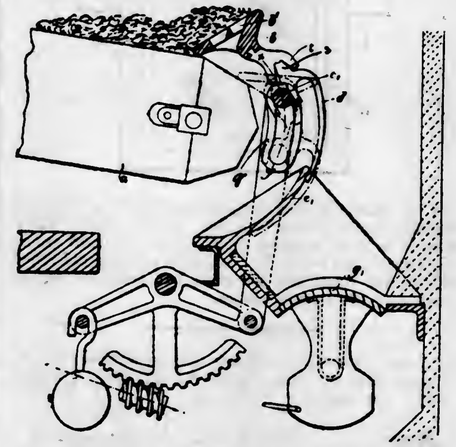
1,386,856. APPARATUS FOR TRANSFERRING MAIL. JOHN FORSLUND, Seattle, Wash. Filed July 24, 1920. Serial No. 398,659. 4 Claims. (Cl. 258—4.)

1. In combination with a moving railway car and a container having affinity for a magnet extending therefrom, a rack located adjacent the car, said rack carrying a buffer made of material attractive to a magnet and controlled by a magnet, against which said container is adapted to impinge and whereby the longitudinal movement of the container is limited after being deposited on



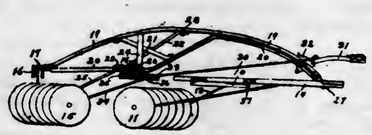
the rack from the car, and means on the rack for limiting the lateral movement of the container and said buffer.

1,386,857. CHAIN GRATE. ALFRED GEORGE FOX, New Cross, England. Filed Apr. 26, 1917. Serial No. 164,706. 5 Claims. (Cl. 110—40.)



1. In combination with a furnace having a traveling grate, dumper bars forming an air seal with the grate, supporting means for said bars comprising a shaft and bar-supporting members between said shaft and said bars, said supporting means being adapted to be adjusted to position the dumper bars either above or below the grate surface, a fixed member, and interplay devices adapted to form an air seal with the fixed member.

1,386,858. TANDEM DISK HARROW. FRANK H. FRENCH, Preston, Iowa. Filed July 9, 1920. Serial No. 394,975. 5 Claims. (Cl. 55—83.)

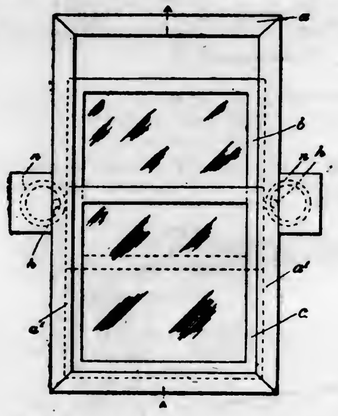


2. In a tandem disk harrow, a draft link composed of two superposed members, said members being in contact and rigidly secured together at their ends, portions of said members being arched, portions of said members

being spaced materially apart, and truss braces within and secured rigidly to the spaced portions of said members.

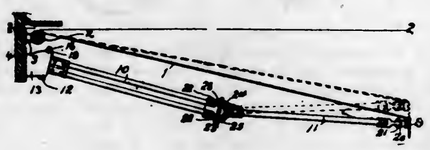
4. In a tandem disk harrow, a trailer harrow having a frame, a disk gang pivoted for oscillation on said frame near its outer end, a lever fulcrumed at one end on said frame, a link pivotally connecting the inner end of said lever to the inner end portion of said gang, and means for oscillating said lever.

1,386,859. SLIDING WINDOW. FREDERICK JOHN GARNIER, St. Helier, Jersey, British Isles. Filed May 6, 1920. Serial No. 379,311. 4 Claims. (Cl. 292—73.)



1. In sliding windows, sashes adapted to slide in the window frame, recesses in the window frame, rollers located in these recesses, annular rings arranged around the rollers, and means for resiliently pressing the rollers against the rings, and the rings into frictional engagement with the slidable sashes.

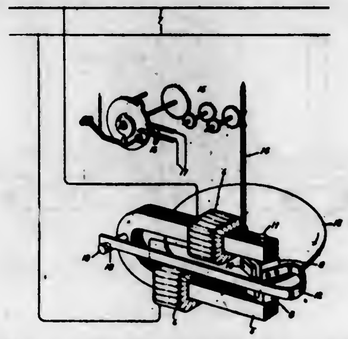
1,386,860. AWNING. LE ROY GOUDIE, Kansas City, Mo. Filed Aug. 28, 1918. Serial No. 251,799. 7 Claims. (Cl. 156—42.)



2. An awning arm comprising an inner member and an outer member having a pivotal connection between them by which the outer member can swing vertically and laterally relative to the inner member, one of the members having a cam face engaging the other member by which when the outer member is swung vertically in one direction, it will be swung laterally relatively to the inner member.

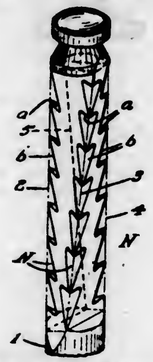
1,386,861. CONSTANT-SPEED MOTOR. CHESTER I. HALL, Fort Wayne, Ind., assignor to General Electric Company, a Corporation of New York. Filed Jan. 28, 1920. Serial No. 354,532. 5 Claims. (Cl. 172—278.)

1. In a constant speed motor adapted to be connected to a source of variable frequency, a rotatable member, means for creating a torque in one direction therein that is a function of the frequency of the current supplied thereto and adjustable means for creating a torque in the opposite direction that is a dissimilar function of the frequency, said latter means being so adjusted that the torque created thereby has substantially constant relation



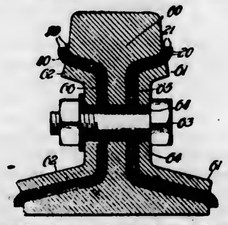
to the first mentioned torque for a relatively large frequency variation.

1,386,862. CLEANING-ROD FOR FIREARMS. ROSWELL G. HALL, Dorchester, and AXEL BIRKHOLM, Boston, Mass. Filed Dec. 15, 1919. Serial No. 345,011. 2 Claims. (Cl. 42—91.)



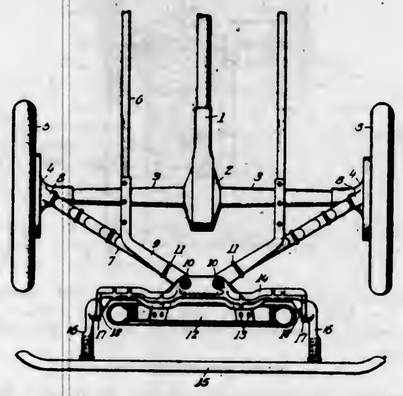
2. A cleaning rod of the class described having an end portion of rectangular cross section defined on two sides by a pair of opposite faces disposed in planes converging in one direction and having oppositely disposed notches cut in the longitudinal edges thereof, and on two other sides by a pair of opposite faces disposed in planes converging in the opposite direction and having oppositely disposed notches cut in the longitudinal edges thereof.

1,386,863. ELECTRICAL INSULATOR. CLINTON O. HARRINGTON, Chicago, Ill. Filed Apr. 8, 1920. Serial No. 372,345. 14 Claims. (Cl. 238—152.)



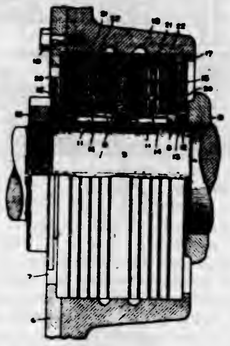
5. A laminated electrical insulator device comprising insulating material and a smoothly surfaced sheet on which the insulating material may slide.

1,386,864. AUTOMOBILE-BUMPER. CHARLES H. HATHAWAY, West Allis, and WILLIAM A. STARCK and LEO F. McEVOY, Milwaukee, Wis., assignors to Badger Manufacturing Corporation, Milwaukee, Wis., a Corporation of Delaware. Filed July 16, 1920. Serial No. 396,750. 8 Claims. (Cl. 293—55.)



6. In a bumper adapted for use on an automobile whose frame is resiliently supported by a divided spring having the inner ends thereof terminate in a transverse plane separated from the transverse plane of the outer ends, the combination of a bumper bar, rearwardly extending arms connected to the bar intermediate the ends thereof, and means connecting said arms and providing a central support on the resiliently supported frame.

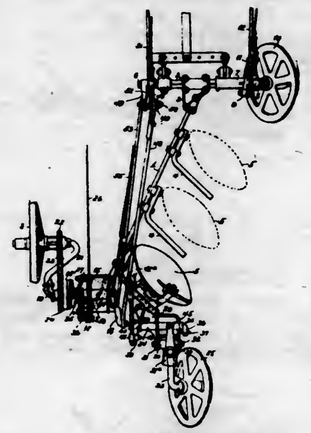
1,386,865. PACKING. CHARLES L. HEISLER, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Feb. 24, 1920. Serial No. 360,938. 7 Claims. (Cl. 286—10.)



1. A packing element comprising a disk having concentric annular projections on a side thereof, and a plurality of packing rings of thin material fastened to the edges of said projections, said packing rings being spaced by means of collars arranged between them.

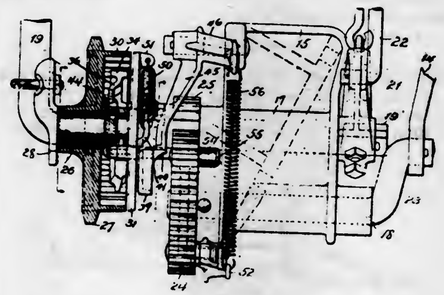
1,386,866. PLOW. EDWARD M. HEYLMAN, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Mar. 29, 1918. Serial No. 225,517. 11 Claims. (Cl. 97—55.)

1. In a plow structure, the combination with a wheeled frame and a plow, of lifting means including a crank shaft and an actuated bar connected therewith and normally bearing dead-center relations to each other, a gear on said crank shaft, power operated means for imparting half-rotations to said gear, and means co-



operating with said gear to hold the same at the end of each half rotation when the actuating bar bears a dead center relation to the crank shaft, whereby the plow will be held either in a raised position or a working position.

1,386,867. POWER LIFT MECHANISM FOR PLOWS. EDWARD M. HEYLMAN, LEON V. KINGSBURY, and LLOYD W. STICKLEY, South Bend, Ind., assignors to Oliver Chilled Plow Works, South Bend, Ind. Filed Apr. 9, 1918. Serial No. 227,534. 6 Claims. (Cl. 192—62.)

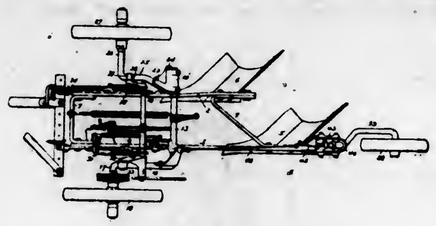


1. In mechanism of the class described, the combination of a ratchet wheel, means for rotating the same, a clutch disk, gearing driven from said clutch disk, clutch devices for connecting the clutch disk with the ratchet wheel, means for controlling said clutch devices, and means coöperable with said gearing to lock the same in definite positions.

1,386,868. PLOW. EDWARD M. HEYLMAN, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Feb. 7, 1919. Serial No. 275,583. 10 Claims. (Cl. 97—36.)

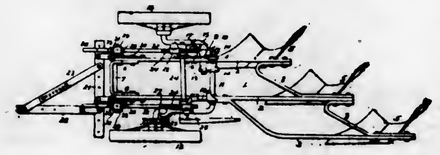
1. In a plow structure, the combination with a plow frame and carrying wheels at respective sides thereof, of crank axle members connecting said frame with the wheels, and adjusting levers mounted on the frame and

having parts disposed over and coöperable directly with the cranked portions of the respective crank axle mem-



bers and free from the same, whereby the plow structure may be adjusted for depth of plowing.

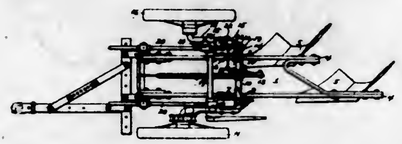
1,386,869. PLOW. EDWARD M. HEILMAN, South Bend, Ind., assignor to Oliver Chilled Plow Works, South Bend, Ind. Filed Oct. 17, 1919. Serial No. 331,288. 4 Claims. (Cl. 97—36.)



1. In a plow, the combination with a plow frame, a plow base carried thereby, a crank axle, and wheels, of a lever pivotally mounted on the plow frame and having its lower end disposed over the crank arm of the axle without direct connection thereto, an approximately horizontal manually operable shaft having threaded and pivotal connection with said lever, and a support on the plow frame for said shaft

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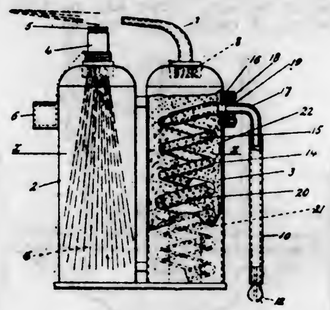
1,386,870. PLOW. EDWARD M. HEILMAN and ARTHUR D. GALLAGHER, South Bend, Ind., assignors to Oliver Chilled Plow Works, South Bend, Ind. Filed Oct. 17, 1919. Serial No. 331,290. 3 Claims. (Cl. 97—36.)



1. In a plow, the combination with a plow frame, two independently movable crank axles, one of which is freely movable relatively to the other when the plow is in raised position, and wheels, of a stop arm carried by the axle which is so movable and coöperable with the frame to prevent the wheel on said axle from kicking back sufficiently to cause the crank of said axle to become disposed at an angle reverse to that of the crank of the other axle.

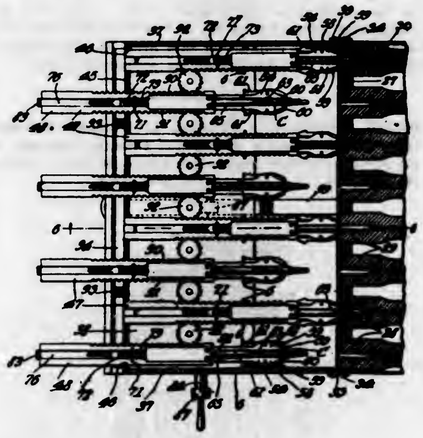
1,386,871. BLOWTORCH. CHARLES H. HOWELL, Columbus, Ohio. Filed May 21, 1920. Serial No. 383,232. 3 Claims. (Cl. 158—35.)

1. A blow-torch comprising two receptacles secured together, one of the said receptacles being provided with a lamp-wick, a blow-pipe nozzle secured to the other receptacle and provided with two converging tubes arranged to deliver the blast crosswise of the lamp-wick,



absorbent material for holding volatile fuel arranged in the said receptacles, and means for forcing air through the absorbent material in the blow-pipe receptacle.

1,386,872. MACHINE-GUN. ROBERT F. HUDSON, Richmond, Va. Filed Mar. 20, 1919, Serial No. 283,807. Renewed Jan. 3, 1921. Serial No. 434,840. 14 Claims. (Cl. 89—11.)



1. In a machine gun, the combination of a supporting frame, a barrel attached thereto and having the breech adjacent to the frame, a sliding breech block mounted in the frame for straight line movement to and from the breech of the barrel, a firing pin and a sear carried by the breech block, mechanical means for imparting reciprocation to the block, and coöperating cartridge inserting and ejecting means carried by the block and in the path thereof, whereby the cartridge is firmly grasped during insertion, held during firing, and released upon retraction before the engagement of a new cartridge.

1,386,873. PISTON-RING. WILLIAM H. JAHNS, Los Angeles, Calif. Filed May 10, 1915. Serial No. 27,253. 2 Claims. (Cl. 74—109.)

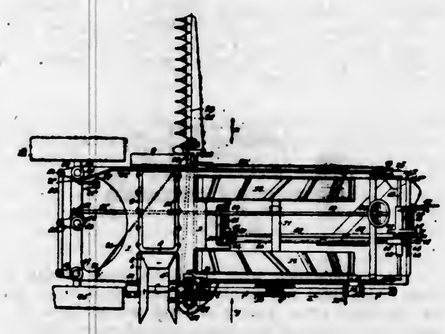
1. In combination with a piston having a groove, a continuous spring expander ring of comparatively stiff metal mounted in said groove and of a width to fill the

opening of the groove, said ring having outer inclined faces, outer triangular metallic packing rings each hav-



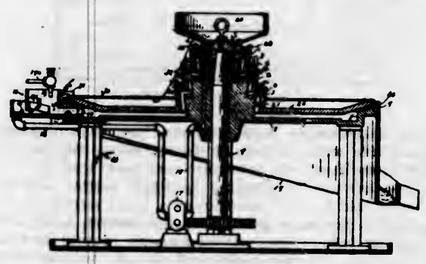
ing an inclined face fitting a face of the expander ring, each of said outer rings being of thin cross section and less in thickness than the expander ring.

1,386,874. FARM-TRACTOR. FRED JUDSON, Fullerton, Nebr. Filed Nov. 29, 1919. Serial No. 341,355. 6 Claims. (Cl. 180—70.)



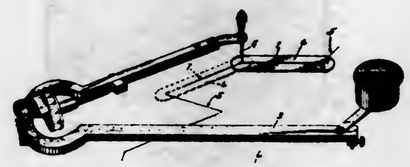
1. In a farm tractor, a bed frame, a motor thereon, a motor driven shaft with which the said wheels rotate, power transmission connecting the motor and the traction wheel shaft, the said mechanism including a lengthwise shiftable shaft mounted on the bed frame, gears adapted for engagement with the motor shaft for causing the driving action of the motor upon the shiftable shaft to be either forward or backward, and thrust lever devices connecting the frame and the longitudinally movable shaft for shifting the gear connections that join the said shiftable shaft and the motor shaft.

1,386,875. CASCADE-AMALGAMATOR. LEWIS M. KELLOGG, South Pasadena, Calif. Filed July 6, 1920. Serial No. 394,357. 6 Claims. (Cl. 83—67.)



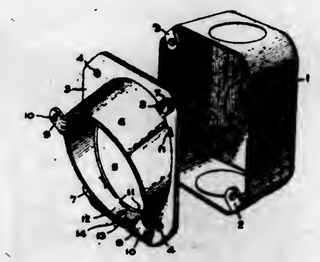
1. In a mercury amalgamator in combination, a cascade comprising a series of annular terraces, a shallow mercury basin extending outwardly from the base of the cascade and having an annular retaining wall, a mercury discharge port formed through the wall of the basin and extending above and below the normal mercury level, a rotatably mounted cover for the cascade and the basin adapted to rotate closely thereto and thereover, means for feeding mercury to the head of the cascade and means for passing ore pulp over the cascade with the overflowing mercury.

1,386,876. PLANIMETER-GUIDE. JOHN J. KERR, Rochester, Minn. Filed Mar. 4, 1920. Serial No. 363,304. 1 Claim. (Cl. 33—122.)



The combination with a planimeter having a tracing needle, of an elongated transparent plate having a longitudinally extended slot of such width as to hold said needle against lateral movement, said needle also acting as a pivot on which said plate may be pivotally moved.

1,386,877. CONDUIT-BODY ANGLE-ADAPTER. HOMER G. KNODERER, Englewood, N. J., assignor to General Electric Company, a Corporation of New York. Filed Oct. 18, 1920. Serial No. 417,642. 2 Claims. (Cl. 247—20.)

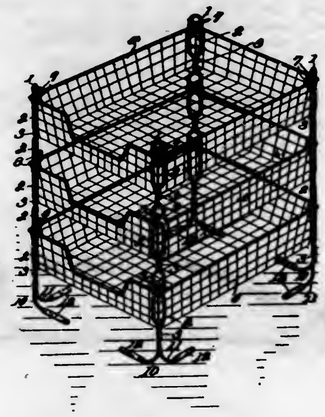


1. An angle adapter for outlet boxes comprising a cover plate having an opening therein for providing access to the outlet box and having means for securing the same to the outlet box, a hollow cylindrical member having its bases in planes making an acute angle with each other and provided with means for securing one of said bases to said cover plate with the opening in the cylindrical member coincident with the opening in the cover plate, and means on the other base of said cylindrical member adapted to secure a cover plate thereto.

1,386,878. WIRE-BASKET SUPPORT. GEORGE A. LAMP, Rock Island, Ill. Filed Aug. 2, 1920. Serial No. 400,818. 3 Claims. (Cl. 211—14.)

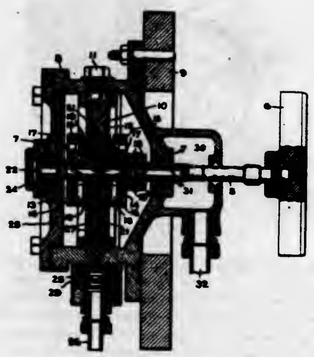
1. A support for paper containing baskets and the like, comprising a strand of wire doubled to provide a

closed fold at one end and supporting feet at the other, the strands of said wire being spaced and substantially



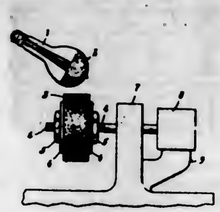
parallel, said strands having a suitable number of bent portions to form basket attaching hooks, and intermediate portions twisted to provide strengthening portions.

1,386,879. DASHPOT. FREDRIK LJUNGSTRÖM, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Skärsätra, Sweden. Filed Oct. 14, 1920. Serial No. 416,944. 5 Claims. (Cl. 188—96.)



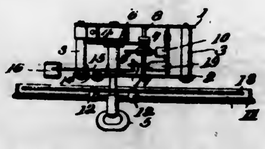
1. In an apparatus of the character described, the combination of a cylinder, a shaft journaled in walls of the cylinder, an axially movable non-rotatable piston in the cylinder, members carried by the shaft and engaging the piston on opposite sides, means for supplying liquid to the cylinder, and means carried by said members for separating air from such liquid.

1,386,880. FROSTED GLASS AND PROCESS FOR MAKING THE SAME. CHARLES F. LORENS, Cleveland, Ohio, assignor to General Electric Company, a Corporation of New York. Filed Jan. 28, 1920. Serial No. 354,526. 3 Claims. (Cl. 41—39.)



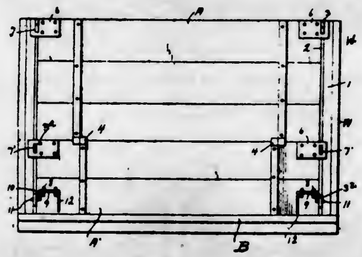
1. The process of finishing a glass surface which consists in sand-blasting the glass surface and afterward rubbing said surface with an abrasive.

1,386,881. ALARM-CLOCK. PAUL LUX, Waterbury, Conn., assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn., a Corporation of Connecticut. Filed Apr. 19, 1921. Serial No. 462,551. 6 Claims. (Cl. 58—16.)



1. The combination with an alarm clock having an alarm main wheel and an alarm crown wheel for acutating the alarm verge, a gong disposed between said clock work and the back of the case, a hammer wire carrying a hammer, said hammer wire having an angled tail and a hammer tail lever carried by said alarm verge having an opening to receive the angled hammer tail for causing the hammer to be oscillated.

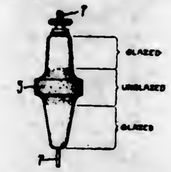
1,386,882. END-GATE. JOHN J. MCCULLOCH, Pomeroy, Iowa. Filed Mar. 20, 1920. Serial No. 367,573. 1 Claim. (Cl. 296—56.)



The combination with a wagon box, plates carried by the side walls thereof, at the tail of the box, an end gate comprising two pivotally connected sections, one of said sections constituting an upper section and the other of said sections constituting a lower section, plates secured to the upper portion of each section, said plates extending beyond the vertical margins of said sections and having a vertically disposed slot in the protruding portions, said slots being in vertical alinement, hook members extending outwardly from the plates and coacting with the slots, a third hook member on each plate and

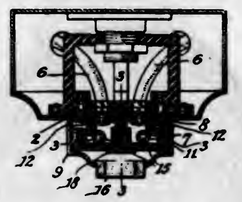
in vertical alinement with the aforementioned hook member, the lower hook members having a greater distance between the hook portion and the plate than the upper hook members, and holding means carried by the lower portion of the lower section and coacting with the lower members, said means comprising rods each of which is provided with rock arms to engage the outer portion of the hook members, the opposite end portion being provided with an operating lever, said lever swinging downwardly to arrange the rock arm in working engagement with the coacting hook member and being limited in its downward movement by the gate.

1,386,883. SPARK-PLUG. TAINE G. MCDOUGAL, Flint, Mich., assignor to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Nov. 22, 1919. Serial No. 339,830. 5 Claims. (Cl. 123—169.)



1. A spark plug including a shell structure, a glazed porcelain, retaining means carried by said shell structure for engaging the porcelain, an electrode passing through the porcelain and projecting at each end thereof, there being an unglazed portion between the retaining means and each end of said porcelain to more completely break electrical connection between the shell and both ends of the electrode.

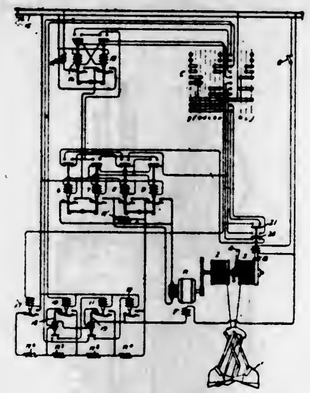
1,386,884. ELECTRICAL-FITTINGS CONNECTION. JOHN ANDREW MCKAY, New York, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 25, 1919. Serial No. 333,385. 6 Claims. (Cl. 173—330.)



6. An electrical fixture connection comprising: a permanent fitting having a socket member with electrical contacts, a removable fitting, complementary guides on said fittings independent of the contacts and slidingly engaged to support the removable from the permanent fitting, a pivotally mounted terminal member carried by the removable fitting and engageable with the socket member, and means for locking said fittings together.

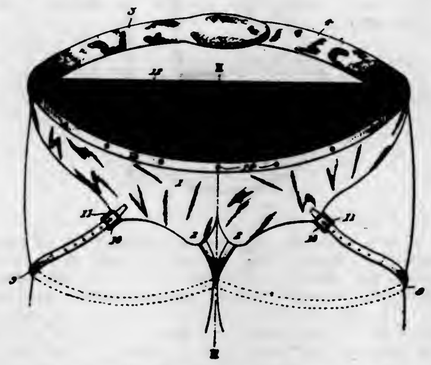
1,386,885. MOTOR CONTROL FOR HOISTS. ROBERT H. MCLAIN, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed May 7, 1919. Serial No. 295,411. 4 Claims. (Cl. 172—152.)

3. The combination in a grab bucket hoist of a holding drum, a lacing drum, a series wound electric motor for operating the drums, means for connecting the motor to a source of supply as a series motor for operating the lacing drum to unwind the lacing cable, a brake for the holding drum, and means whereby the said connnection can only be established when the brake is applied to the holding drum.



4. The combination in a grab bucket hoist of a holding drum, a lacing drum, a series wound electric motor for operating the drums, a controller having means for connecting the motor to a source of supply to hoist the bucket, connecting the motor in a local dynamic brake circuit to lower the bucket, and reversing the motor and connecting a shunt around the motor armature for operating the lacing drum to unwind the lacing drum cable, a brake for the holding drum and means for interlocking the brake and the controller to prevent reversing the motor unless the brake is applied to the holding drum.

1,386,886. TRUSS. NICK MAGGIO, Brooklyn, N. Y. Filed Oct. 9, 1920. Serial No. 415,940. 2 Claims. (Cl. 128—96.)

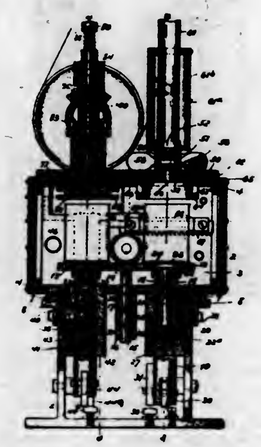


1. In combination with a truss, a detachable elastic abdomen supporting band secured to the upper edge thereof, the lower edge of said band being cut upon a relatively straight line and curved coincident to the upper edge of said truss, the upper edge of said band tapering toward its edges from its center point of greatest height.

1,386,887. ART OF CANNING. ADOLPH K. MALMQUIST, South Bellingham, Wash., assignor to Deming & Gould Company, South Bellingham, Wash. Filed Nov. 13, 1919. Serial No. 337,737. 4 Claims. (Cl. 99—8.)

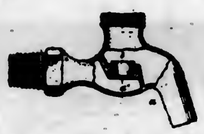
1. The herein described method, consisting in inclosing within a chamber, an open container having

solid food therein, creating a vacuous condition within said chamber and within the pores of the food in said container, discharging liquid into said container and filling the pores of said solid food, permanently closing



and sealing said container, and maintaining a vacuous condition in the chamber in which the container is located during the steps of filling with liquid and parmanently closing and sealing the container.

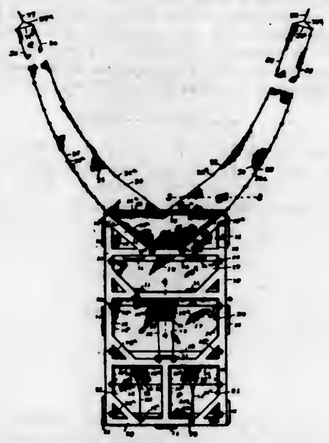
1,386,888. RENEWING MEANS FOR VALVE STRUCTURES. FRED MASTERS, Ithaca, N. Y. Filed Nov. 20, 1919. Serial No. 339,305. 5 Claims. (Cl. 251—36.)



2. As a means for renewing the serviceability of valve structures, wherein the partition of the valve body carries the passageway through the valve in axial alinement with the valve member, portable means insertible into the valve body for producing a taper of definite value to the passageway throughout its length and in the direction of its axis, the operation of said means serving to vary the diameter of the valve body passageway as compared to the diameter prior to the means operation, and an annular valve seat having an external configuration to tightly fit said tapered passageway and project beyond the partition in the direction of approach of the valve, whereby positioning of the valve seat may be preceded by such means operating to produce a smooth metallic surface for the reception of the seat.

1,386,889. SEINE. ANDREW MATTSON, Bellingham, Wash. Filed Jan. 15, 1920. Serial No. 351,660. 3 Claims. (Cl. 43—104.)

3. In a seine in combination, a floatable frame, a web fish pound fastened beneath said frame having an opening in its bow end and a plurality of pockets with communicating openings, a pair of web wings removably fastened to the bow end of said pound, a pair of vertical spreaders removably fastened to the sides of each of said openings, sinker lines with sinkers fastened to the bot-



tom of said pound and said wings, float lines with floats fastened to the top of said pound and said wings, and a plurality of rope slings outside of and beneath said pound the ends of which are removably fastened to said frame.

1,386,890. CAP. WILLIAM A. MATYK, Cedar Rapids, Iowa. Filed Nov. 12, 1920. Serial No. 423,601. 3 Claims (Cl. 2—106.)

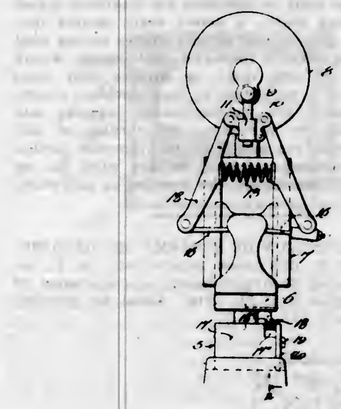


1. As a new article of manufacture, a paper cap comprising an oval shaped body gathered longitudinally and transversely to form a substantially hemispherical crown, one end of said body being provided with a hem, a band secured to the other end of said body and extending upwardly therefrom and a strap arranged under said band having an elastic cord extending through the hem of said body and connected to the free ends of said strap.

1,386,891. HAMMER. LOUIS MAYER, Kaukauna, Wis. Filed Mar. 6, 1920. Serial No. 363,902. 3 Claims. (Cl. 78—44.)

3. An anvil comprising a body member provided with a recess, a rectangular die positioned within said recess

and having a plurality of cutting edges, a retaining plate, means carried by the retaining plate and body member



for holding the die in said recess, and a tool supporting surface provided in the body member, said surface being adjacent and flush with one of the die faces

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1,386,892. PHONOGRAPH. EDWARD P. MOFFITT, Minneapolis, Minn. Filed Mar. 15, 1920. Serial No. 365,908. 6 Claims. (Cl. 274—9.)



1. In combination in a phonograph having a tone arm adapted to swing in an arc over a disk record, a sound box having a stylus adapted to engage the record, said sound box being secured on a vertical pivot joint to said tone arm, and an actuating mechanism operatively connecting said sound box to a stationary part of the phonograph, said mechanism being adapted to change the direction of the sound box relative to the tone arm so that the direction of the stylus will be perpendicular to a line through it and the record center at all times while the stylus engages the record.

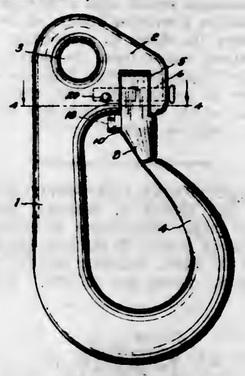
1,386,893. DANGER-SIGNAL. PARKE G. MYERS, Cairo, Ohio, assignor to The Automatic Signal & Sign Company, Canton, Ohio, a Corporation of Ohio. Filed Apr. 26, 1920. Serial No. 376,673. 6 Claims. (Cl. 248—41.)

1. A signaling device comprising a post, a collar radially adjustable upon the upper end thereof, an upwardly extending web upon said collar provided with horizontally disposed apertures in its lower portion, a frame provided with rearwardly disposed bolts in its lower portion extending through the apertures in the web, nuts upon the rear ends of said bolts, a slotted rearwardly extending plate carried upon the rear side of



said frame and a screw located through said slotted plate and into the upper end of the web.

1,386,894. CHOKER-HOOK. OLE MYRMO, Hobart, Wash. Filed July 27, 1920. Serial No. 399,319. 1 Claim. (Cl. 24—241.)



A hook of the character described comprising a head portion, an integral shank portion formed into a hook with its end spaced slightly below and from the head socket to form a relatively narrow mouth to the hook, said head having an eyelet therein and a transverse socket opening downwardly toward the hook end having a notch in the inner wall thereof, a tongue having one end extended into said head socket, a pin projected through that end of the tongue to pivotally mount the same in the head to swing transversely to the plane of the hook, said tongue having a socket in one side thereof in registration with said head socket wall notch, a block slidable in said tongue socket, a spring yieldingly urging said block outwardly to engage said notch to lock the tongue in closing position and a button extended from the block whereby the block may be depressed and released from said notch to permit the tongue to be swung to open position.

1,386,895. STORAGE-BATTERY. CHARLES OLSSON, Milwaukee, Wis. Filed Apr. 3, 1919. Serial No. 287,200. 5 Claims. (Cl. 204—29.)

1. In a battery, the combination with the electrode plates and separator plates, of a set of protecting strips

interposed between the lower corner portions of the separator plates and the corresponding portions of the



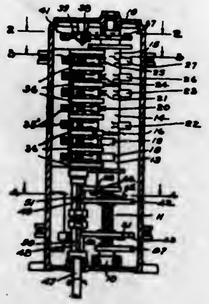
electrode plates, and unconnected with each other at the bottom, whereby waste material is not retained by said protecting strips.

1,386,896. PROCESS AND APPARATUS FOR THE MANUFACTURE OF SHEETS BY AGGREGATION OF FLAKE MATERIALS. CHARLES F. PETERSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Sept. 20, 1917. Serial No. 192,387. 22 Claims. (Cl. 154—1.)



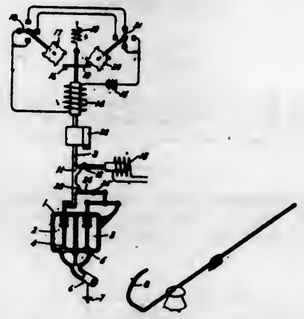
2. The process of assembling flake material in sheet form which consists in creating a partial vacuum at one side of a foraminous screen with a confined space at its other side; causing a swirling stream of air, of sufficient velocity to carry the flakes in suspension, to be sucked into said confined space from the surrounding atmosphere; and uniformly supplying flake material to said confined space to be carried along dispersed in said swirling stream of air and automatically distributed over the screen in a uniform layer.

1,386,897. ELECTRICAL LIMIT-SWITCH. ROBERT L. ROCKWELL and HENRY R. STEVENS, Seattle, Wash., assignors, by mesne assignments, to Royal A. McClure, Jesse N. Bialock, Albert E. Holland, David O. McClay, and Ernest G. Howe, trustees, Seattle, Wash. Filed June 12, 1918. Serial No. 239,674. 4 Claims. (Cl. 200—47.)



1. A limit switch of the class described comprising a casing, a plurality of contact fingers mounted therein and insulated from each other, a shaft extending lengthwise of said casing said shaft being threaded at one end, contact shoes arranged in pairs on said shaft the two shoes of each pair being electrically connected with each other and said pairs of contact shoes being insulated from each other, two disk like members adapted to screw onto the threaded portion of said shaft, each of said disks having a plurality of radial slots extending from the periphery inward and a plurality of concave peripheral recesses between said slots, lugs rigidly secured to said shaft, lugs rigid with said disks and adapted to engage with said fixed lugs on said shaft as said disks are rotatively moved lengthwise of said shafts, a driven shaft, sleeves frictionally secured thereon each of said sleeves having fixed outstanding pins parallel therewith that engage within successive slots in said disks to advance said disks through a part of a revolution at each complete revolution of said sleeves and yielding means engaging said first named shaft for preventing the turning of said shaft as said disks are moved on the threaded portion thereof and permitting said shaft to turn when the lug on either of said disks engages the fixed lug on said shaft.

1,386,898. PROTECTION OF SYSTEMS OF DISTRIBUTION. DAVID B. RUSHMORE, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 21, 1918. Serial No. 223,682. 11 Claims. (Cl. 175—294.)



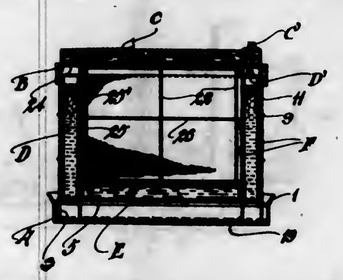
7. The combination in an apparatus of the class described of means for closing an electric circuit comprising means for producing a stream of liquid and means for gradually varying the conductivity of said stream.

1,386,899. MEASURING INSTRUMENT. HERMAN SAMUEL, Stockholm, Sweden. Filed Dec. 4, 1919. Serial No. 342,572. 17 Claims. (Cl. 33—172.)



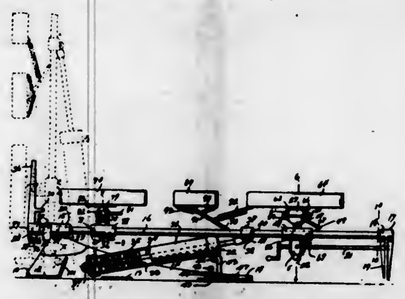
1. In a measuring instrument, the combination, with an operating element, an indicator for registering measurements in terms of one unit, and a gear train leading from said operating element to said indicator; of an indicator for registering the measurements in terms of a different unit; a gear train leading to the second indicator; and a movable coupling for alternatively connecting the second train to, or disconnecting it from, the first train.

1,386,900. COOLER. HENRY S. SCHOFF, Spokane, Wash. Filed Dec. 9, 1920. Serial No. 429,374. 4 Claims. (Cl. 45—182.)



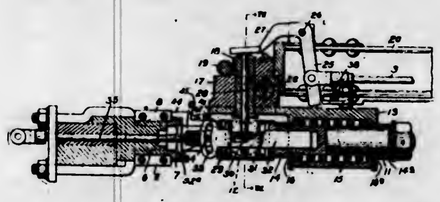
1. The combination with an open base pan and containers as described, of a supporting frame comprising inner and outer sections and each section formed with a bottom portion for the purpose described, said sections having foldable sides and ends, means for locking the sections of the frame, and means for locking the sides and ends of the outer section.

1,386,901. CHIROPRACTIC TABLE. CHARLES H. SCHREINER, Rock Island, Ill. Filed Oct. 23, 1920. Serial No. 418,917. 18 Claims. (Cl. 128—73.)



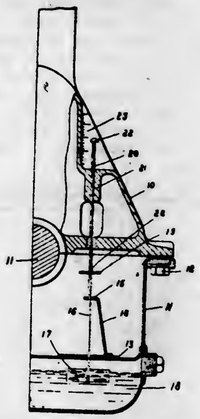
1. A chiropractic apparatus comprising a base, a table pivoted to the base for movement from an upright position to a lowered position or vice versa, a spring urging the table to its upright position, and means on the table operable by the weight of a patient to automatically increase the tension of the spring in accordance with the weight of the patient.

1,386,902. COUPLING AND BRAKE CONNECTION FOR VEHICLES. ORLANDO D. SHONNARD, Upper Montclair, N. J., assignor of one-third to Harold W. Shonnard, Upper Montclair, N. J. Filed Oct. 24, 1918. Serial No. 259,476. 8 Claims. (Cl. 188—3.)



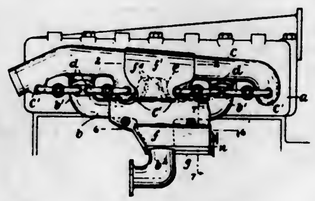
7. The combination of a tractor and a trainer, the tractor being provided with a brake lever and the trailer provided with a brake-shoe, of an intermediate coupling member expansible in a direction longitudinally of tractor and trailer and affording pivotal motion between tractor and trailer on a longitudinal axis, and brake-operating mechanism through which the brake-operating lever on the tractor is connected with the brake shoe on the trailer, said mechanism including a bar with an inclined surface borne by said connecting member and reciprocable longitudinally thereof and a member movable at right angles in response to reciprocation thereof.

1,386,903. OIL-LEVEL INDICATOR FOR MOTOR-VEHICLES. CHARLES R. SHORT, Detroit, Mich., assignor to General Motors Company, Detroit, Mich., a Corporation of New Jersey. Filed Apr. 6, 1917. Serial No. 160,127. 6 Claims. (Cl. 73—82.)



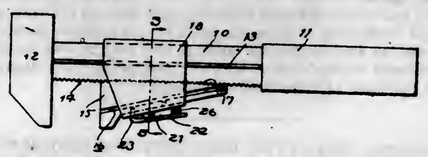
1. In combination with a container having two parts detachably secured together, a gage device comprising a float operated member located within one part of said container and permanently associated therewith, and an indicating member carried by the other part of said container and abutting against but unconnected with said first mentioned member.

1,386,904. DEVICE FOR HEATING THE INTAKE MANIFOLDS OF INTERNAL-COMBUSTION ENGINES. HENRY LUND SMITH, Paterson, N. J. Filed Feb. 5, 1920. Serial No. 356,549. 1 Claim. (Cl. 257—241.)



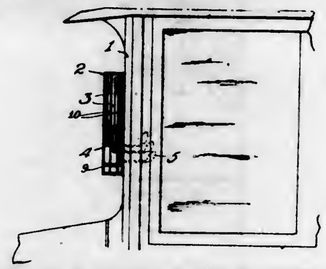
In combination, with the engine side and with engine exhaust and intake manifolds arranged the former over the latter and forming together and with said side a pocket, the intake manifold having its inlet delivering upwardly thereinto and beneath said pocket, a heat-conducting jacket member jacketing the exhaust manifold and having a heat-radiating projection extending into said pocket and tapering from a broad base to its free end.

1,386,905. WRENCH. JOHN C. SMITH, Jersey Shore, Pa. Filed Mar. 9, 1921. Serial No. 450,890. 5 Claims. (Cl. 81—154.)



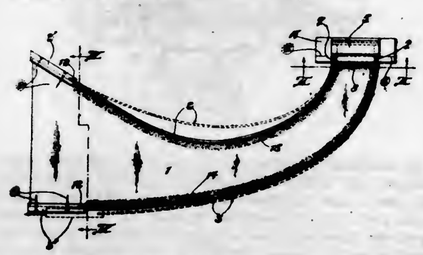
2. In a wrench, a shank embodying a fixed jaw, a yoke slidably mounted on the shank and held against transverse shifting with relation thereto, a movable jaw longitudinally shiftably mounted in the yoke, said shank and movable jaw being provided with coacting roughened faces, and a connection between the yoke and movable jaw whereby said movable jaw is shifted transversely upon relative shifting movement of the yoke and movable jaw to move the roughened face thereof into or out of engagement with the roughened face of said shank.

1,386,906. VEHICLE SIGNAL DEVICE. DANIEL B. SPATZ, Reading, Pa. Filed Dec. 30, 1920. Serial No. 434,128. 1 Claim. (Cl. 116—53.)



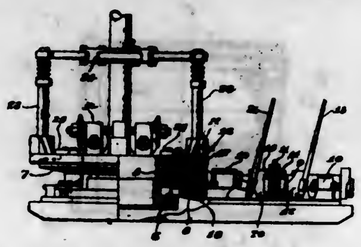
In a device of the character described, the combination of a vehicle upright member, with a vertical, open-sided signal arm casing secured thereto, said casing being provided with a plurality of vertical partitions, forming separate compartments within the casing; a plurality of signal arms normally held in vertical position each in one of the said compartments and mounted for arcuate movement, rods attached to the arms and shafts to which the arms are attached; an operating handle on each shaft and a stop member adapted for contact by said rods, whereby the movement of the signal arms is stopped when they attain a horiozntal position relatively to the vertical housing, all substantially as and for the purpose set forth.

1,386,907. PHONOGRAPH-HORN. JOSEPH J. STEFFAN, St. Louis, Mo. Filed Aug. 11, 1919. Serial No. 316,620. 8 Claims. (Cl. 181—21.)



2. A phonograph horn having oppositely disposed elongated tensioned walls, and means for anchoring the end margins of said tensioned walls.

1,386,908. ROTARY WELL-DRILLING MACHINE. WILLIAM HENRY TAYLOR, Hull, Tex. Filed Mar. 12, 1920. Serial No. 365,204. 4 Claims. (Cl. 255—23.)



1. In a rotary well drilling machine, a main turntable, work-gripping means thereon, a secondary table rotatably mounted on said main table, work-gripping means on the secondary table and means for independently driving both of said tables.

1,386,909. RETOUCHING-MACHINE. OSCAR S. TEALE, Bloomfield, N. J., assignor to George H. Wiley, New York, N. Y. Filed Nov. 26, 1919. Serial No. 340,764. 5 Claims. (Cl. 95—101.)



1. A retouching instrument, comprising a casing, a drive shaft extending from and having bearings at one end of the casing, a pencil or stylus carrying shaft extending from the other end of the casing and provided with a universal journal, a bearing for said journal fixedly held in the casing coaxially with the drive shaft bearings, a radially adjustable connection between the adjacent ends of the shafts, a sleeve slidable on the casing near its stylus carrying end, and bars extending lengthwise the casing and connecting said sleeve with the inner bearing of the drive shaft.

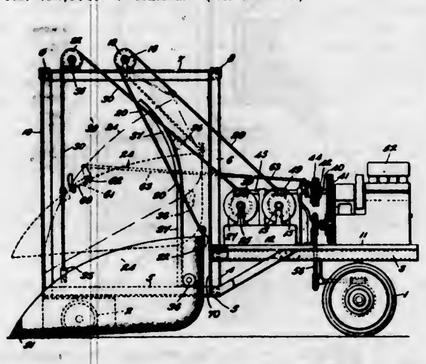
1,386,910. RETOUCHING-MACHINE. OSCAR S. TEALE, Bloomfield, N. J., assignor to George H. Wiley, New York, N. Y. Filed Jan. 30, 1919. Serial No. 274,131. 5 Claims. (Cl. 95—101.)

1. In a retouching instrument, a drive shaft, a pencil carrying shaft and a universal bearing therefor in line co-axial with the drive shaft in combination with an adjustable connection positively joined to the adjacent ends of the two shafts and means for setting the connection, whereby the end of the pencil carrying shaft may be set in different radial positions relatively to the axis



of the drive shaft and revolved around said axis in unison with the rotation of the drive shaft.

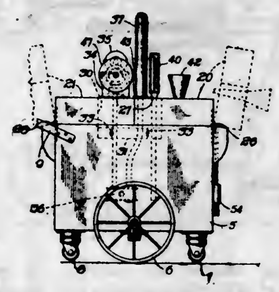
1,386,911. SHOVEL-OPERATING MACHINE. THOMAS W. THOMAS, Baltimore, Md. Filed May 24, 1920. Serial No. 383,873. 7 Claims. (Cl. 37—33.)



1. In a shovel operating machine the combination of a truck frame provided with front and rear wheels, and with a pair of forwardly projecting members forming an open ended space between the front wheels; a shovel supported by said frame in said space with its center of gravity when loaded located between said front and rear wheels and with its open end pointing forward; power means carried by the frame for forcing said shovel into a pile of material to fill said shovel; power means for raising the front end of said shovel; and power means for raising the rear end of said shovel, substantially as described.

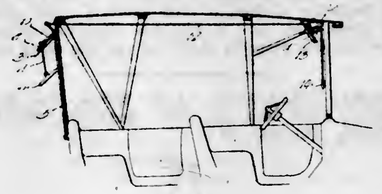
1,386,912. CONTAINER FOR INSULATING OR IMPREGNATING COMPOUNDS. WILLIAM A. TIMM, Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 8, 1918. Serial No. 243,933. 3 Claims. (Cl. 219—38.)

1. A portable container for impregnating compound, comprising a heating chamber, an adjustable discharge pipe connected with said chamber, a pump for forcing compound through said pipe, and an opening into said



chamber through which the compound may be discharged from said pipe in one position thereof to mix or stir said compound.

1,386,913. AUTOMOBILE ATTACHMENT. WILLIAM TRABUE, Louisville, Ky., assignor of one-half to D. C. Brenner, Louisville, Ky. Filed Nov. 1, 1920. Serial No. 421,137. 3 Claims. (Cl. 88—67.)



1. In a motor vehicle, the combination of a stationary elongated mirror attached to the car's roof in front of the driver's seat, a second stationary mirror supported at the rear of the vehicle in a position to reflect images through the usual rear window onto said first mirror, and a third adjustably mounted mirror disposed beneath the second mirror for reflecting objects onto the latter.

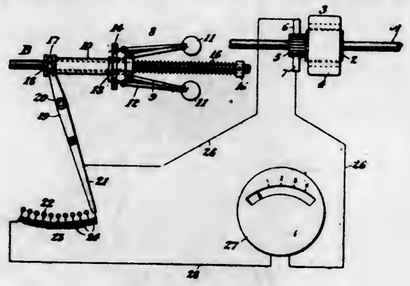
1,386,914. DRY CEMENT PROCESS AND PRODUCT. JOHN L. TUFTS, Winchester, Mass. Filed Feb. 2, 1914. Serial No. 816,120. 2 Claims. (Cl. 106—29.)

1. A process for making a dry cement product, consisting in agitating calcined magnesite in a closed vessel, and introducing therein during said agitation amounts of hydrochloric acid gas and water vapor sufficient to produce a product containing the proportion of five molecules of magnesium oxid, one molecule of magnesium chlorid and five molecules of water.

1,386,915. INDICATING MECHANISM. CHARLES R. UNDERHILL, New Haven, Conn. Filed Jan. 13, 1917. Serial No. 142,193. 12 Claims. (Cl. 175—183.)

1. Indicating mechanism embodying the combination with two rotary members, and means acted upon by certain referred to agencies adapted to coöperate with each other connected therewith, of a centrifugal device associated with one of said rotary members, and re-

sponsive thereto, for variably controlling one of said co-operating means, the coöperative movements of said



means being effective for denoting the ratio which the speeds of said rotary members bear to each other.

1,386,916. FLYING-MACHINE. HARRY VASS, Summit, N. J. Filed Mar. 12, 1920. Serial No. 365,141. 5 Claims. (Cl. 244—25)



1. In a flying machine, a propeller, a shaft on which said propeller is fixed, a drive shaft, a crank arm on said drive shaft, and a universal joint connection between the said propeller shaft and the said crank arm.

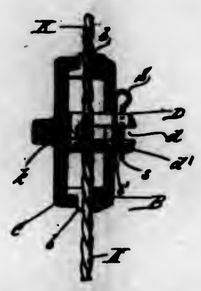
1,386,917. CONTAINER. CARL WEEKS, Des Moines, Iowa. Filed Mar. 25, 1919. Serial No. 285,014. 2 Claims. (Cl. 220—71.)



1. In a device of the class described, a thin, flat receptacle, having formed in its sides, near its upper end, a pair of rib members forming inwardly opening channel portions, a resilient brace device having the form of a broken ring of suitable outline, received in said channel portions with its free ends normally spaced from each other and adapted when moved together to brace and limit the amount of inward movement of the sides of the receptacle, as and for the purposes stated.

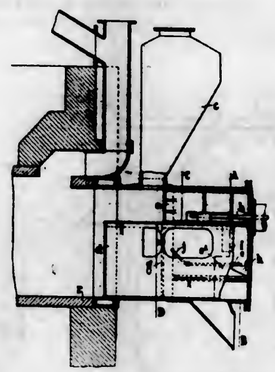
1,386,918. ADJUSTABLE SLACK-HOLDER FOR CORDS, &c. OLIVER FRANK WESTRUP and ERIC WESTRUP, New Brighton, England. Filed June 14, 1920. Serial No. 388,809. 3 Claims. (Cl. 242—99.)

2. An adjustable cord bight holder of the character designated, comprising a casing formed in two sections, one rotatable on the other, one section being formed with a slotted and bifurcated cord bight drum the end of which is protuberant axially through the other section, and a



spring cotter pin straddling the outer end of said cord bight drum and formed with a central shank portion extending through holes formed for the purpose in said bight drum.

1,386,919. CHARGER FOR RETORTS. WILLIAM WILD, Blackpool, England, assignor of one-half to West's Gas Improvement Company Limited, Manchester, Lancaster, England. Filed Mar. 26, 1919. Serial No. 285,171. 2 Claims. (Cl. 214—24.)

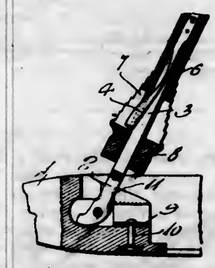


1. In charging devices for retorts, the combination with a main charging ram, of an auxiliary charging ram riding upon the main ram, a chute delivering coal in advance of the auxiliary ram and upon the top of the main ram, means traversing the said auxiliary ram, and means for traversing the main ram from the auxiliary ram, the latter in its movement closing the exit from the chute, transferring the coal to the end face of the main ram and then carrying the latter forward with it to charge the retort, as set forth.

1,386,920. METHOD FOR PRODUCING HYDROXIDS OF METALS BY PRECIPITATING METALLIC SALTS WITH AMMONIA. MAX BUCHNER, Hanover, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Dec. 24, 1917. Serial No. 208,705. 1 Claim. (Cl. 23—13.)

A method of producing hydroxids of metals which are substantially insoluble in ammonia, which comprises allowing ammonia in an amount which is several times the chemical equivalent of the metal present to act upon a metallic salt in the presence of water.

1,386,921. BOBBIN-HOLDER. LOUIS ALEXANDRE CADORET, Pawtucket, R. I. Filed July 26, 1920. Serial No. 398,888. 2 Claims. (Cl. 139—27.)



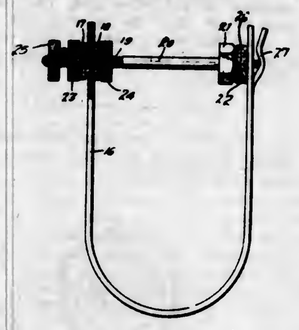
1. In combination, a spindle, a bobbin on said spindle adapted to be forced inwardly beyond its normal operative position and then turned, and a latch for positively holding said bobbin on said spindle, said bobbin acting to release the latch when forced inwardly beyond its normal operative position and further acting to hold said latch released when turned, permitting the bobbin to be removed.

1,386,922. COMPOSITION OF MATTER AND PROCESS OF PRODUCING THE SAME. PRIMO CALOVI, New York, N. Y., assignor, by mesne assignments, to Holdzem Company, Inc., New York, N. Y., a Corporation of New York. Filed May 6, 1920. Serial No. 379,307. 5 Claims. (Cl. 167—6.)

2. The process of producing a gum like mass suitable for catching vermin which consists in heating raw linseed oil until it does not adhere to wood; mixing more than 5 per cent. of water with said mass; mixing less than 20 per cent. of rosin with said mass at a temperature too low to burn the hand; and stirring the material until a tenacious, resilient and adhering substance results, substantially as described.

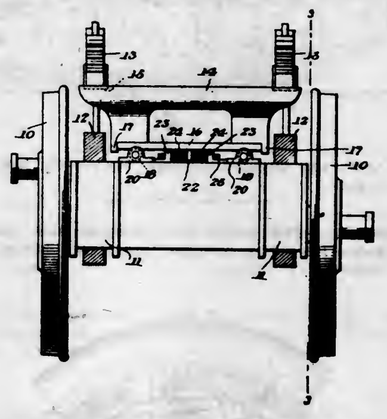
5. The herein described new composition of matter suitable for catching rats comprising a mass of cooked linseed oil admixed with substantially ten per cent. of water and 15 per cent. of rosin, the whole constituting a tenacious, sticky, resilient, gum-like mass of a strength sufficient to hold rats of the largest size, substantially as described.

1,386,923. AUTOMATIC FIRE-ALARM DEVICE. EDWARD C. CAPPER, Prosper, Minn. Filed Jan. 2, 1920. Serial No. 349,048. 2 Claims. (Cl. 200—142.)



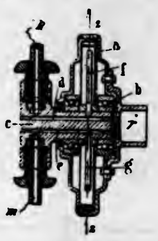
1. In a device of the class described, a substantially U-shaped spring; a bolt mounted in one arm thereof and insulated therefrom; a block of material having a relatively low melting point arranged between said bolt and the other arm of said spring, said spring being arranged to normally engage said bolt when said block is removed, one arm of said spring having a resilient tongue cut therefrom, whereby a wire may be gripped between said tongue and the body of said resilient spring.

1,386,924. SADDLE FOR ENGINES. LONNIE N. CLIFTON, Raleigh, N. C. Filed Feb. 10, 1919. Serial No. 276,102. 2 Claims. (Cl. 105—44.)



1. The combination with a locomotive journal box, of a spring saddle positioned above the same, anti-friction devices interposed between the journal box and saddle, a lug positioned intermediate the ends of the saddle and springs carried by the journal box and engaging opposite sides of the lug to yieldingly maintain the journal box and saddle in proper relative position.

1,386,925. MEANS FOR ACTUATING SPEED-INDICATING DEVICES, GOVERNORS, AND OTHER DEVICES FROM ROTATING SHAFTS. GEORGE CONSTANTINESCO, Weybridge, England. Filed Sept. 16, 1919. Serial No. 324,123. 2 Claims. (Cl. 264—19.)

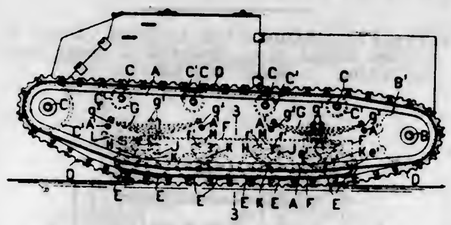


1. In apparatus of the type indicated, comprising a rotor, liquid in said rotor, and a tube within said rotor having its end continuously immersed in the liquid above a certain speed of said rotor, a second tube shorter than the first having its end lipping the liquid at said certain speed of the rotor, a device to be actuated by liquid pressure, a reservoir of liquid, a connection between said first tube and said device to be actuated, and a connection between said second tube and said reservoir of liquid, as set forth.

1,386,926. ENDLESS-TRACK ARRANGEMENT FOR VEHICLES. GEORG HAGELLOCH, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,097. 2 Claims. (Cl. 305—9.)

1. In an endless track vehicle, having guide rollers engaging that part of the endless track which is in

contact with the ground, a carrier for said rollers, levers pivoted in pairs to said carrier and carrying said rollers



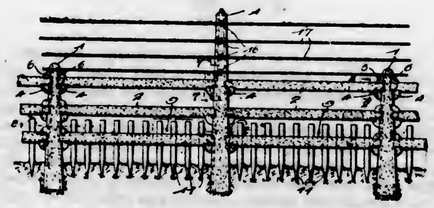
in pairs, and springs interposed between the levers of each pair.

1,386,927. SPRING-WHEEL. HARRY HAYMAN, Detroit, Mich. Filed May 5, 1920. Serial No. 378,961. 6 Claims. (Cl. 152—32.)



3. A wheel provided with spokes divided between the hub and the felly, a sectional ring comprising a plurality of sections each made up of a pair of half spring seats, and spoke clamps connected by a web, one of the spring seats being provided with an under-engaging lip, the said sections being bolted together and in staggered relation and to the outer wheel spoke portions, an inner sectional ring similarly made up and secured to the spoke portions of the inner wheel section, and spiral springs engaging between the two sectional rings and held in the spring seats by the under-engaging lip of the spring seats engaging under the end coils to hold the spring from separation.

1,386,928. CONCRETE FENCE. JOHN C. HAMILTON, Joliet, Ill. Filed Apr. 29, 1920. Serial No. 377,681. 5 Claims. (Cl. 256—19.)



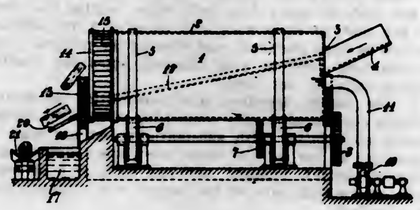
1. In combination, a fence post and a horizontal rail detachably connected thereto, said rail being provided at one of its ends and in its upper side with a shallow recess extending transversely thereof, the post adjacent the recessed end of the rail being also provided with a recess communicating with the first named recess, and a retaining block fitted in said recesses, serving to hold the rails in place.

1,386,929. BOX-HANDLING DEVICE. JOHN G. HARTMAN, Yakima, Wash. Filed May 31, 1919. Serial No. 300,872. 1 Claim. (Cl. 294—62.)



In a device of the character described a pair of members each having divergent arms at their ends which terminate in downwardly directed portions, each downwardly directed portion having an inturned sharply pointed prong at its extremity adapted to penetrate the wood of wooden receptacles, the inner portions of said members being enlarged and one of said members having a short upturned ear at its inner end which enters and is pivoted in a recess formed in the other of said members at a point spaced from the inner end of the latter whereby the latter member is caused to overlap the upper face of the inner portions of the other of said members, the upper and lower faces of said overlapping portions of the respective members being rounded to complementally form a hand grasp and lying so closely together as to permit of their being grasped within the hand, the divergent arms of the respective members lying upon opposite sides of the longitudinal center of the device whereby the said prongs are caused to resist any tendency of the load to tip.

1,386,930. WET-BARKING MACHINE. HANS THEOBALD HOLM, Karlstad, Sweden. Filed Feb. 17, 1919. Serial No. 277,414. 3 Claims. (Cl. 144—208.)



1. In a wet-barking machine, a single rotary drum consisting of a solid horizontal shell provided with an inlet opening at one end for the logs and with a delivery opening at the other end, the said inlet end being more closed than the delivery end, for the purpose of preventing water admitted into the drum from escaping at the inlet end and for causing it to flow off at the delivery end.

1,386,931. OIL-RING. HEINRICH HOMBERGER, Mill Valley, Calif. Filed Aug. 26, 1918. Serial No. 251,356. 7 Claims. (Cl. 64—31.)



1. An oil ring comprising two ring segments of unequal length connected by radially seating, mortise and tenon joints.

1,386,932. METHOD OF MAKING PAVING MATERIAL FROM TARRY MATTER. CHIKAKIYO HONDA, Tokyo, Japan. Filed Oct. 30, 1919. Serial No. 334,447. 2 Claims. (Cl. 106—31.)

1. The method of manufacturing a paving material which consists in mixing tarry matter together with table salt (NaCl), rosin saponified with slaked lime ($Ca(OH)_2$), and rosin which is sulfureted with sulfur powder.

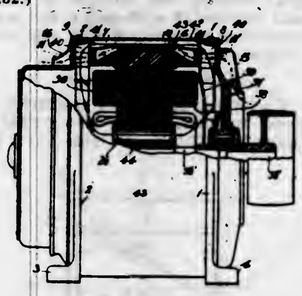
1,386,933. TOBACCO-PIPE. JAMES W. IVORY, Philadelphia, Pa. Filed Apr. 10, 1920. Serial No. 372,754. 5 Claims. (Cl. 131—12.)



1. A tobacco pipe having in the lower portion of its stem and the base portion of its bowl communicating passages which are open respectively to the tobacco chamber of the bowl and the exterior surface of the stem, and a tapering pin which is adapted to occupy said passages and form a closure for the latter from the exterior of the stem, the portion of the passage adjacent to the bowl forming around the adjacent portion of the pin a vent by which smoke may be drawn from the bowl into the stem.

5. A tobacco pipe having in its stem and bowl a passage leading from the exterior of the stem to the chamber of the bowl, and a tapering pin which is adapted to occupy said passage and provided in its periphery with a vent for the purpose set forth.

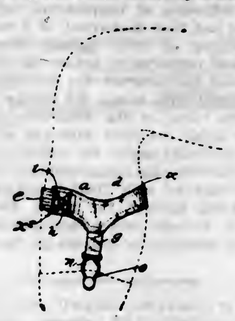
1,386,934. DYNAMO-ELECTRIC MACHINE. HENRY CHARLES EDWARD JACOBY, London, England. Filed Apr. 19, 1918. Serial No. 229,498. 6 Claims. (Cl. 171—252.)



1. An inclosed dynamo electric machine having a casing comprising a yoke, a plurality of sheet metal rings surrounding said yoke, said rings being spaced from said yoke and from each other to form separate series of annular channels for cooling fluid and for the internal hot air of the machine, means for circulating the hot internal air through one series of channels and means for passing cooling fluid through the other series of channels, substantially as and for the purpose hereinbefore set forth.

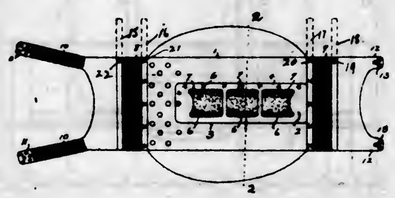
1,386,935. GARTER. WILLIAM H. JOHNSON, Arlington, N. J. Filed Sept. 1, 1920. Serial No. 407,430. 4 Claims. (Cl. 241—6.)

1. In a garter, a main strap member consisting of two connected parts, one of which is composed of elastic material and the other of which is upwardly curved in the plane of the strap member, said strap member being also



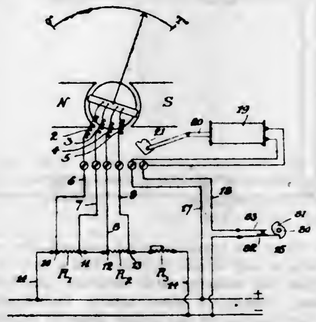
provided with means whereby it may be secured around the leg and with means whereby it may be secured to a stocking.

1,386,936. BANDAGE. LEAH M. KIRWAN, Houston, Tex. Filed Aug. 9, 1920. Serial No. 402,311. 1 Claim. (Cl. 128—290.)



A bandage formed of an elastic body, a flap fastened permanently at one edge to said body and forming a pocket, and provided with an opening, absorbent material fitted between said flap and body, cross straps holding said material in place, means whereby the other edge of the flap is detachably secured to said body to retain said material in place, securing straps carried by each end of the bandage and means carried by the respective ends of the straps whereby they may be secured around the body of the wearer.

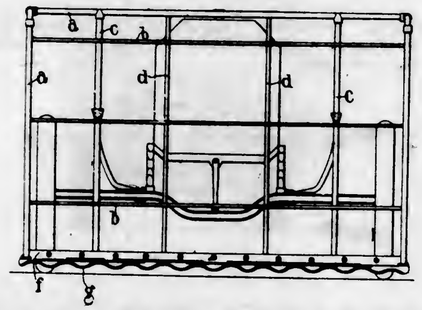
1,386,937. INTEGRATING HEAT-QUANTITY METER. BIRGER KOCK, Stockholm, Sweden. Filed Mar. 22, 1919. Serial No. 284,336. 2 Claims. (Cl. 73—184.)



1. In an integrating heat quantity meter for hot water plants and the like, the combination with a tem-

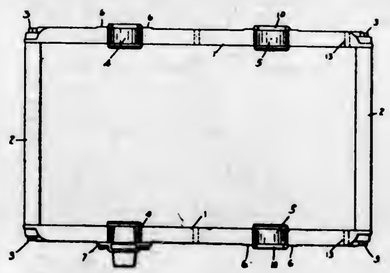
perature measuring device comprising thermoresponsive means exposed to the flowing hot water to continually indicate the difference of temperature between the hot water supplied and that discharged, of a meter for measuring the quantity of water passing through the pipe system, the said temperature measuring device being an electrical distant thermometer, the indicating member of which is combined with means for adding intermittently the momentary value of the deflections, and the said adding means being combined with the water meter by means of an electrical device for transmission of motion so as to be mechanically independent of the water meter, in order that at each time a certain quantity of water has passed through the meter, the said adding means may be brought into action and the integrated end value may constitute a measure of the heat quantity used.

1,386,938. LIFE-SAVING GUARD FOR STEAM AND MOTOR ROAD-VEHICLES. GEORGE LEONARD LAVINGTON, East Ham, England, assignor of one-half to Arthur Willis, Winchmore Hill, England. Filed June 25, 1920. Serial No. 391,742. 4 Claims. (Cl. 293—54.)



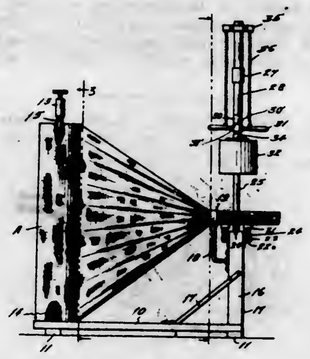
1. A life saving guard for steam and motor road vehicles comprising in combination; a frame-work, means for attaching said frame-work to the front of the vehicle, and means projecting in the forward direction and having recesses along its edge, as and for the purpose described.

1,386,939. FRAME CONSTRUCTION. DARCY E. LEWELLEN, Columbus, Ind., assignor to Lewellen Manufacturing Company, Columbus, Ind., a Corporation of Indiana. Filed Mar. 18, 1920. Serial No. 366,749. 4 Claims. (Cl. 64—8.)



1. A frame for variable speed transmission mechanism comprising a pair of side members and a pair of end members, bolts for securing said members together at their ends and forming a substantially rectangular shaped frame, depressions in the upper edges of said side members for the reception of shafts, and extensions integral with and extending downwardly from the lower edges of said side members and forming supports for the frame.

1,386,940. BAGGING-CUTTER. LOUIS P. LIVELY, Bonham, Tex. Filed Oct. 30, 1920. Serial No. 420,649. 6 Claims. (Cl. 164—58.)

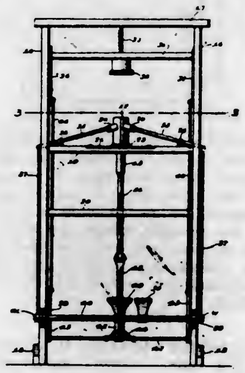


1. In a bagging cutter, a base support, means for supporting a roll of bagging on the base, a guide element for forming the bagging into a strip, a knife over which the strip of bagging is disposed, and a reciprocating cutter member supported above the knife and arranged to sever the strip of bagging when forced rearwardly onto the same.

1,386,941. METHOD OF PRODUCING NITROGEN-CONTAINING COMPOUNDS. KARL PRINZ ZU LÖWENSTEIN, Neckargemünd, and FRITZ HAUFF, Stuttgart, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Aug. 18, 1916. Serial No. 115,733. 1 Claim. (Cl. 23—13.)

A process comprising dissociating the hydrogen and pure carbon of a gas of the methane series; mixing said pure carbon with an alkaline salt; burning said hydrogen in atmospheric air, thus producing a mixture of steam and nitrogen; bringing said nitrogen in contact with the aforesaid mixture of pure carbon and an alkaline salt, and combining the nitrogen with said carbon and said salt to form cyanids or cyanamids.

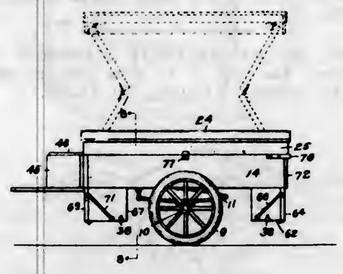
1,386,942. CAN-STRAIGHTENING MACHINE. FRANKLIN EARNEST MEDCOFF, Coloma, Mich. Filed Apr. 14, 1920. Serial No. 373,913. 3 Claims. (Cl. 153—80.)



1. A can straightening machine comprising an expanding die member composed of a series of segmental blocks

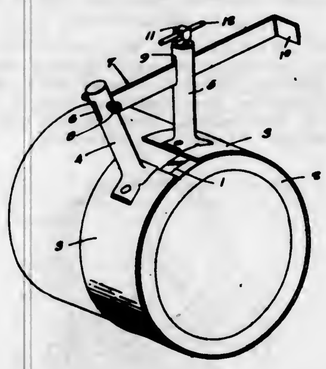
arranged to form a hollow cylinder, a mandrel insertible into the cylinder for expanding the same, a can rim shaping flange at the bottom of the die member, and a pair of pivoted segmental members engageable with the can rim for forcing the same against the aforesaid flange.

1,386,943. AUTOMOBILE CAMP-TRAILER. NINIAN R. MOORE, Dubois, Pa. Filed Mar. 28, 1919. Serial No. 285,802. 13 Claims. (Cl. 296—23.)



1. In an automobile trailer, a shallow body having solid sides and a solid cover resting on said sides, frames within said body and hinged to same and to each other and means for supporting said cover spaced from said body, said frames being adapted to be swung out of said body into horizontal, vertical and sloping positions so as to form floor, wall and roof portions of a habitable compartment.

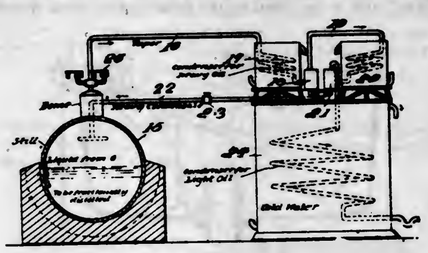
1,386,944. PISTON-RING CLAMP. ALBERT E. NEWBERRY, Quincy, Ill. Filed May 24, 1920. Serial No. 383,882. 2 Claims. (Cl. 29—86.4.)



1. A piston ring clamp comprising a piston encircling body, handles extending from the body, a locking strip pivotally connected with the free end portion of one handle and extending through a path formed in the second handle, and means carried by the second handle for engaging the locking strip to releasably retain the clamp in a clamping position about a piston.

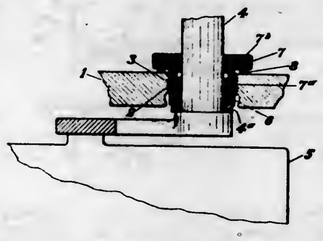
1,386,945. UTILIZATION OF PETROLEUM-PITCH. KONOSUKE NOMI, Kitatoshima-gun, Japan. Filed Jan. 22, 1918. Serial No. 213,124. 2 Claims. (Cl. 196—25.)

2. Process of producing coke, volatile oil and gas containing hydrogen, which comprises charging a suitable retort with petroleum pitch, then heating it up to about 500° to 600° C., and collecting the products, fractionally distilling the volatile oil obtained, and mixing the heavier



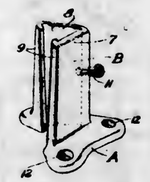
fraction thereof with an additional quantity of the petroleum pitch, and heating said mixture to about 500° to 600° C., and collecting the products.

1,386,946. TERMINAL STRUCTURE FOR ELECTRIC BATTERIES. PAUL E. NORRIS, Pittsburgh, Pa., assignor to Westinghouse Union Battery Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed Feb. 18, 1920. Serial No. 359,532. 9 Claims. (Cl. 204—29.)



1. In an electric battery, a cell cover having a hole, a terminal post projecting through said hole, a gasket sleeved on said post and having a conical outer surface, and a nut adapted to screw into said hole and having a conical inner surface coöperating with the conical surface of said gasket.

1,386,947. FLOOR-SOCKET. JOSEPH J. QUINN, Philadelphia, Pa., assignor to Consolidated Expanded Metal Companies, Braddock, Pa., a Corporation of Pennsylvania. Filed May 27, 1919. Serial No. 300,103. 2 Claims. (Cl. 248—38.)

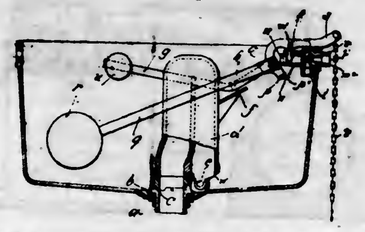


1. A floor socket comprising a supporting base, a substantially V-shaped socket portion, the sides of which have an inturned lip portion, and clamping means carried by the socket adapted to thrust the member inserted in the socket against said lip portions.

1,386,948. FLUSH-CISTERN. GEORG RENNER, Dusseldorf, Germany. Filed Sept. 10, 1919. Serial No. 323,042. 2 Claims. (Cl. 4—5.)

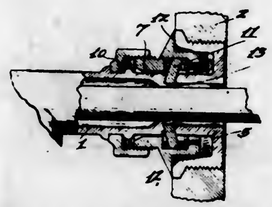
1. A flush-cistern, which is free of water when not in use, consisting of a cistern tank, a supply valve, means for opening said valve by hand, a weighted lever adapted

to close said valve, a discharbe valve, adapted to be opened by said weighted lever on the supply valve being closed, and to be closed on the supply valve being opened,



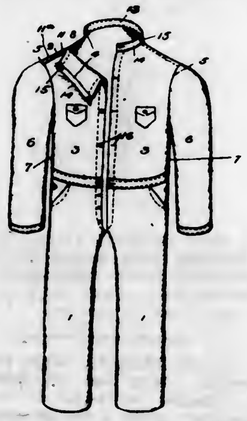
means for supporting the weighted lever when in raised position and the supply valve is open, a float within said tank, adapted to discharge the said support of the weighted lever when the water level in the tank is high.

1,386,949. TAP-ATTACHING DEVICE. FRANK EDWARD RICE, Detroit, Mich., assignor to American Tap Bush Co., Detroit, Mich., a Corporation of Michigan. Filed Nov. 13, 1919. Serial No. 337,715. 4 Claims. (Cl. 217—107.)



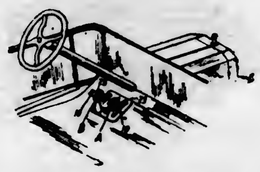
1. A device of the type set forth comprising a bunghole plug, a nipple in the plug having a spherically formed convex end, a thimble having a bayonet connection with said nipple, a tap having a concave spherically formed end adapted to rotatably enter said thimble, a packing ring between the end of the nipple and the end of the tap and means for producing relative movement between the tap and the thimble to produce compression of the packing ring between the parts engaging such ring.

1,386,950. UNION-GARMENT. JACOB RIFKIN, Wilkes-Barre, Pa. Filed May 6, 1920. Serial No. 379,281. 4 Claims. (Cl. 2—144.)



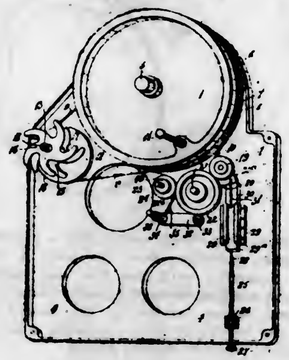
1. The combination in a blouse or shirt comprising a back piece and front pieces and having armholes and a neck opening; of reinforcing strips connected to the rear edges of the respective front pieces between the neck opening and the armholes to form extensions of the front pieces and overlap the corresponding front edges of the back piece; stitching to connect the overlapping portions of the reinforcing strips to the adjacent front edge of the back piece, from the armholes to points partway toward the neck opening to form shoulder vents; a sectional collar or collar band, one section of which is connected to the back piece at the neck opening, and the remaining sections being secured to the respective front pieces at the neck opening; and means to releasably close the vents.

1,386,951. ADJUSTABLE PEDAL EXTENSION. GEORGE H. RIVES, New York, N. Y. Filed June 12, 1920. Serial No. 388,552. 4 Claims. (Cl. 74—81.)



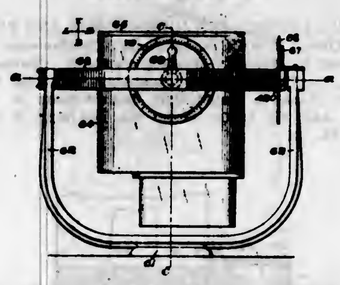
1. An adjustable pedal extension, comprising a plate having on one of its ends a hook member adapted to removably engage one edge of a foot pedal so that the plate will rest upon top of the pedal and said plate being of a length so that its second end part protrudes beyond the second side edge of the pedal, spaced stops depending downwardly from said second end part of plate, teeth on the underside of the plate between the stops, a clip slidably movable on the plate between the stops toward and from the hook member for detachably engaging the second side edge of the pedal when the clip is accordingly adjusted, and means for releasably locking the plate and clip when adjusted in engagement with the pedal.

1,386,952. MAIL-MARKING MACHINE. DONALD ROBERTSON and RICHARD MIDDLETON SIMPSON, Wellington, New Zealand, assignor to Imperial Postmarkers Limited, Wellington, New Zealand, an Incorporated Company of New Zealand. Filed Jan. 23, 1920. Serial No. 353,641. 6 Claims. (Cl. 101—240.)



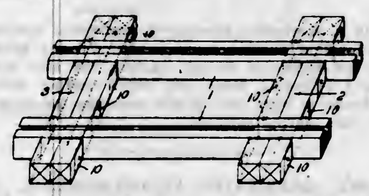
1. A revoluble platen element, a marking wheel mounted for rotation and for movement toward and from the platen element, an endless band connecting said platen element and said marking wheel, a tightener for said band, and means to simultaneously shift the marking wheel and tightener, to cause the latter to increase the tension of the endless band as the marking wheel is moved toward the platen element.

1,386,953. SPEEDOMETER. JOHN D. ROBERTSON, Taunton, Mass., assignor to Charles J. Robertson, Taunton, Mass. Filed Jan. 12, 1918. Serial No. 211,500. 20 Claims. (Cl. 73—157.)



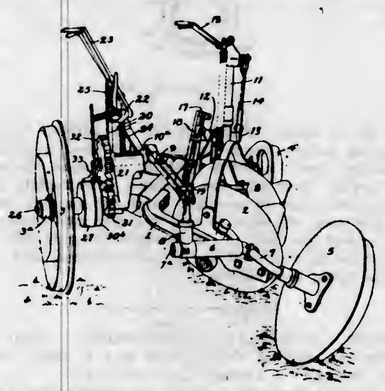
1. In an instrument for ascertaining characteristics of motion of a moving body which carries the instrument, the combination of means responsive to acceleration and retardation of said body to give the acceleration or retardation, and means for integrating with respect to time the acceleration or retardation so found.

1,386,954. RAILWAY-SLEEPER. FRANÇOIS P. A. ROUSSEAU and LÉON A. PITOT, Paris, France. Filed Nov. 13, 1919. Serial No. 337,771. 3 Claims. (Cl. 238—42.)



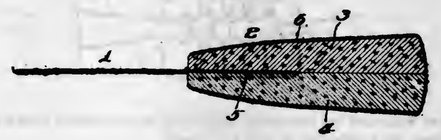
1. A railway track support or cross-tie construction, comprising spaced tubular metallic members and spaced transverse cross-members inserted through and interlocking with said tubular metallic members.

1,386,955. POWER-LIFT FOR PLOWS. NEWELL SANDERS, Chattanooga, Tenn. Filed Apr. 5, 1921. Serial No. 458,800. 6 Claims. (Cl. 97—54.)



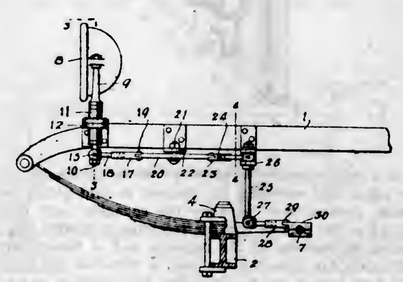
1. A power lift for a wheel plow, comprising in combination a land wheel, a fixed axle therefor, a clutch, one member of which is connected with the land wheel, and the other member of which is connected with a gear wheel turnable loose on the axle, a second gear meshing with the first gear, and attached to a crank shaft, and connections from the crank shaft to the raising and lowering means of the two furrow wheels.

1,386,956. FLOATING KNIFE. RALPH LINCOLN SANDERS, Pleasantville, N. J. Filed Oct. 29, 1920. Serial No. 420,356. 2 Claims. (Cl. 30—9.)



1. A knife composed of a blade and a handle, the latter being formed of pieces of cork, the tang of said blade being between said pieces, a wrapping of cord of fibrous material on the exterior of said pieces connecting the latter and a coating of waterproof material on said wrapping, said handle having a degree of flotation greater than the weight of said blade and coated wrapping whereby the knife as a unit is floatable.

1,386,957. DIRIGIBLE AUTOMATIC HEADLIGHT. LEON T. SCHALLER, Irvington, N. J. Filed Jan. 12, 1920. Serial No. 350,746. 3 Claims. (Cl. 240—62.)

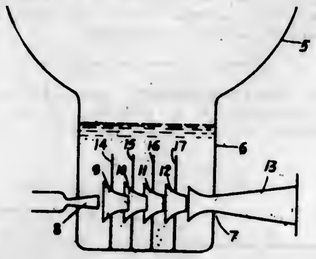


1. In headlight mechanism for vehicles the combination with a chassis, axle, wheels mounted on steering knuckles upon said axle, and a tie rod connecting said steering knuckles, of a lamp bracket rotatably mounted upon said chassis, a lever pivotally mounted between its ends on said chassis, a member pivotally mounted on said chassis and having oppositely extending arms one of which is pivotally connected to one end of said lever and the other of which is pivotally connected to said tie rod, and an arm on said lamp bracket pivotally connected to the other end of said lever.

1,386,958. FLUID-TRANSLATING DEVICE. HENRY F. SCHMIDT, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co., a Corporation of Pennsylvania. Filed Sept. 12, 1919. Serial No. 323,307. 16 Claims. (Cl. 162—1.)

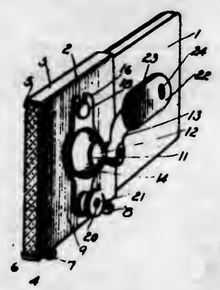
1. In combination with a condenser and its hot well, an ejector comprising a motive fluid delivery nozzle, a combining cone, the inlet of which is in open communi-

cation with the hot well and a diffuser alined with said cone and having its inlet in open communication with the



hot well and its discharge subjected to a pressure greater than that existing in the condenser.

1,386,959. MIRROR-HOLDER. HORACE W. SEVERANCE and GEORGE F. HEMPHILL, Kansas City, Mo., assignors, by mesne assignments, to Elliott-Nichols Manufacturing Company, Kansas City, Mo., a Copartnership. Filed Mar. 15, 1920. Serial No. 365,704. 1 Claim. (Cl. 45—97.)



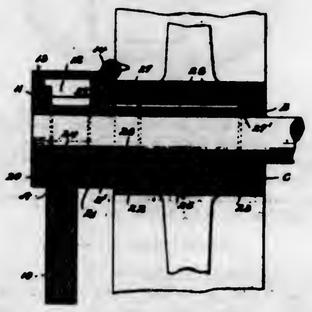
In a mirror holder, a plate, a bracket, a tension device for adjustably securing the bracket to said plate, having means intermediate its ends for engaging said bracket, having a slot at one end for receiving a headed pin, and having an opening at the opposite end, a headed pin on said plate for engaging the slot, a threaded pin adjacent said first named pin for engaging the opening, and a jam nut on the end of the last named pin for adjusting the tension of the clamping device.

1,386,960. LUBRICATED-BUSHING UNIT. JOHN CESSNA SHARP, Chattanooga, Tenn., assignor to Moccasin Bushing Company, Chattanooga, Tenn., a Copartnership consisting of John Cessna Sharp, John S. Poindexter, and William F. Ward. Filed Aug. 19, 1920. Serial No. 404,661. 5 Claims. (Cl. 64—27.)



1. A bearing unit comprising a spool-shaped sleeve member, a bushing member having an outer bearing surface mounted upon said sleeve member and forming therewith an annular oil chamber, means for supplying oil to said chamber, and means for feeding said oil from said chamber to the bearing surface of said bushing.

1,386,961. LUBRICATED JOURNAL-BOX AND PULLEY BEARING. JOHN CESSNA SHARP, Chattanooga, Tenn., assignor to Moccasin Bushing Company, Chattanooga, Tenn., a Copartnership consisting of John Cessna Sharp, John S. Poindexter, and William F. Ward. Filed Aug. 19, 1920. Serial No. 404,662. 9 Claims. (Cl. 64—24.)



1. In a lubricated bearing, a supporting casting, a pair of hollow bushing members mounted one upon the other and supported in said casting, the said bushing members providing inner and outer bearing surfaces, and means in said casting and bushings for supplying oil to said bearing surfaces.

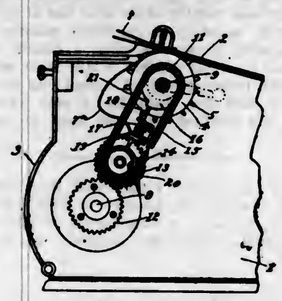
1,386,962. LUBRICATED PULLEY-BUSHING. JOHN CESSNA SHARP, Chattanooga, Tenn., assignor to Moccasin Bushing Company, Chattanooga, Tenn., a Copartnership consisting of John Cessna Sharp, John S. Poindexter, and William F. Ward. Filed Aug. 19, 1920. Serial No. 404,663. 7 Claims. (Cl. 64—26.)



1. As an article of manufacture, a bushing unit for mounting pulleys upon shafting comprising a plurality of hollow sleeve members mounted one upon the other and having their adjacent surfaces intermediate their ends spaced apart to provide a lubricant chamber, means for supplying lubricant to said chamber, and means for feeding said lubricant to the bearing surface of said unit comprising apertures in one of said members and fixed inserts filling said apertures.

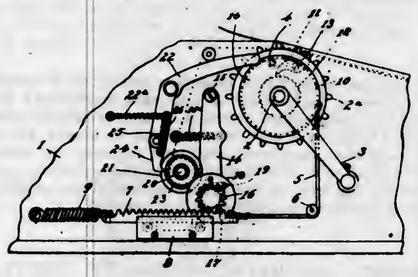
1,386,963. AUTOGRAPHIC REGISTER. JOHN Q. SHERMAN, Dayton, Ohio. Filed May 7, 1919. Serial No. 295,447. 4 Claims. (Cl. 281—14.)

1. In an autographic register, the combination with a feeding device for a plurality of paper strips including a record strip, of a storage roll for the record strip, and means for connecting said storage roll and the sprocket feeding device, comprising in part, an extendible belt,



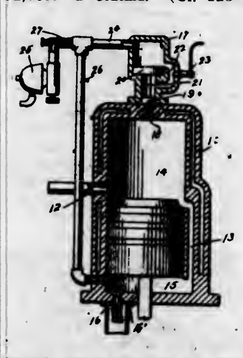
together with a stop for the storage roll for inhibiting its continuous movement with the sprocket feeding device.

1,386,964. AUTOGRAPHIC REGISTER. JOHN Q. SHERMAN, Dayton, Ohio. Filed Nov. 12, 1919. Serial No. 337,471. 10 Claims. (Cl. 281—8.)



1. In an autographic register, the combination with a friction wheel and a storage roll for a record driven thereby, of another friction wheel resiliently pressed against said first friction wheel, a spring actuator for the second friction wheel, a feeding means for duplicate strips of paper including a duplicate record strip, and means during the operation of the feeding means to set said spring actuator, and at the close of said feeding operation to release the same.

1,386,965. INTERNAL-COMBUSTION ENGINE. JOSEPH RYAN SIMPSON, Lone Oak, Tex. Filed June 7, 1915. Serial No. 32,669. 2 Claims. (Cl. 123—74.)



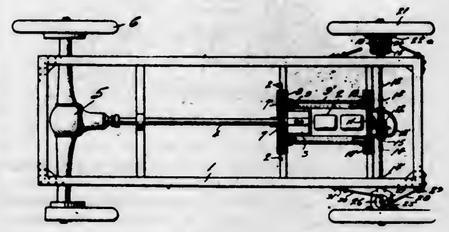
1. In an internal combustion engine, the combination with a cylinder having a valved fuel intake at its lower end, an exhaust at its midlength, and a by pass between the intake and exhaust, and a reciprocating piston; of a casing communicating with the cylinder through a port in its upper end, an auxiliary carbureter, a pipe therefrom communicating with said casing, a check valve in this pipe, a branch pipe from the lower end of the cylinder to said carbureter pipe between the check valve and casing, pistons in the casing rigidly connected by a rod, and sparking means within the by pass of this casing, the whole for operation as described.

1,386,966. ATTACHMENT FOR TOOTH-PASTE TUBES. HARRY STREET SLADE, McKeesport, Pa. Filed Jan. 29, 1920. Serial No. 355,009. 1 Claim. (Cl. 221—60.)



A device for feeding material from a tube comprising parallel bars having perpendicular offsets at their ends, the juxtaposed offsets at one end being hinged together, a latch holding the bars separably united at their ends opposite the hinge, parallel milled rollers journaled in the offsets, a knurled head connected with one of the rollers at the hinged end, and intermeshed gears carried by the rollers at the latch end adapted to be separated when the bars are unlatched.

1,386,967. FOUR-WHEEL DRIVE MECHANISM. GEORGE W. SMITH, Dallas, Tex. Filed Aug. 30, 1919. Serial No. 320,766. 3 Claims. (Cl. 180—44.)

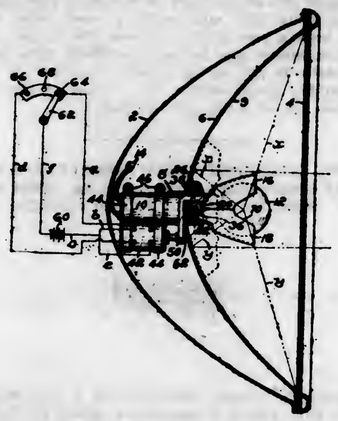


1. In a four wheel drive mechanism, the combination with a motor vehicle frame, a motor mounted on the frame, a transmission driven by the motor, and a propeller shaft driven by the transmission, of a train of gears driven by the propeller shaft, parallel forwardly directed shafts driven by said train of gears, a plurality of front gears driven by the parallel shafts, a front differential driven by the front gears, laterally extending drive shafts connected with the front differential, a bevel wheel drive on each side of the front of the frame and connected with one drive shaft, an axle under the drive shafts, and front wheels pivoted to the axle and driven by the bevel wheel drives.

1,386,968. DIMMING APPARATUS FOR HEADLIGHTS. HENRY MONFORD SMITH, Lyndonville, Vt. Filed Nov. 17, 1919. Serial No. 338,555. 5 Claims. (Cl. 240—45.)

1. In a headlight or other lamp in combination, an electric bulb as a source of light; a reflector; opposed dimming shades movable to and from dimming position; and operating means to move said shades in substantially vertical direction to and from dimming position, said

shades being oppositely curved transversely of said bulb and cut away laterally thereof so as to leave said bulb



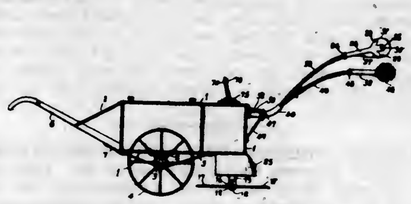
uncovered in front and at a portion of the sides thereof, while covering said bulb at top and bottom, when said shades are in dimming position.

1,386,969. TYPEWRITING-MACHINE. JESSE A. B. SMITH, Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Aug. 1, 1919. Serial No. 314,640. 26 Claims. (Cl. 197—134.)



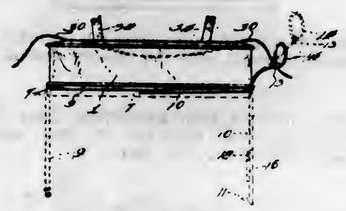
1. In a front-strike typewriting machine, the combination with a platen and a work-sheet-feeding device above the platen, of a line-space device for driving said feeding device, a web roll, a carbon strip roll, and a winding roll for the web, connected to be driven by the line-space device.

1,386,970. APPARATUS FOR CUTTING VEGETABLES. RAFAEL A. SOLER and JULIO G. NEGRETE, Habana, Cuba. Filed Mar. 10, 1919. Serial No. 281,685. 2 Claims. (Cl. 56—17.)



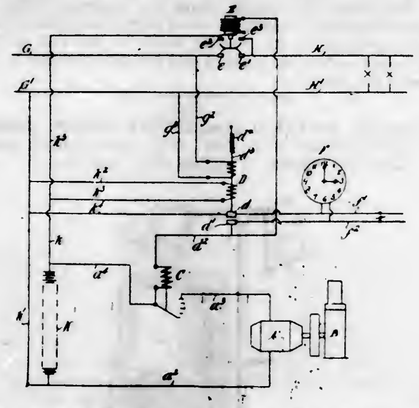
1. In a harvester of the class described, a wheeled frame, a longitudinally arranged driving shaft in said frame, a vertical shaft depending from said frame and provided at its lower end with a cutter, said vertical shaft being geared to said driving shaft, a counter shaft geared to the driving shaft and provided with a gear, means to put said counter shaft in or out of gear, a manually operable member, a revoluble member mounted in said manually operable member, a flexible shaft connected to said revoluble member, a stub shaft mounted for rotation in the frame, means to connect said flexible shaft detachably to said stub shaft, and a gear wheel on said stub shaft and engaged with the gear on the counter shaft.

1,386,971. PARACHUTE PACK AND HARNESS. OTTO SUMMERS, Chicago, Ill., assignor to Floyd Smith Aerial Equipment Company, a Corporation of Illinois. Filed Mar. 14, 1921. Serial No. 451,957. 9 Claims. (Cl. 214—21.)



1. A container for a parachute having a detachable cover and a flexible wall opposite said cover, and a plurality of leaf springs arranged in and extending across said flexible wall, said springs being so shaped and so disposed that they constantly tend to press the middle portion of said wall inwardly into the container, thus causing said wall to push the contents of the container out of the latter when the cover is removed.

1,386,972. AUTOMATIC CONTROL OF ELECTRIC GENERATING SETS. LEO SUNDERLAND and GILBERT CECIL PILLINGER, Westminster, London, England. Filed Feb. 18, 1918. Serial No. 217,874. 2 Claims. (Cl. 290—30.)



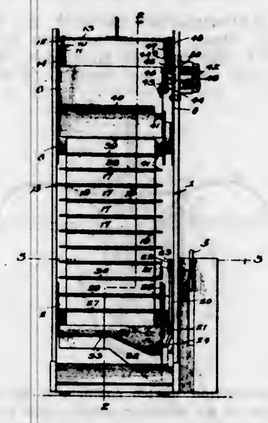
1. In an automatic electric generating system, the combination with the main line and secondary source of electrical energy, of a motor-generator, a prime mover therefor, an auxiliary circuit connected with the main line, and automatic means whereby the failure of voltage in the main line will cause the operation of the motor generator to furnish current thereto through the auxiliary circuit.

1,386,973. SHIPPING-TAG. ARTHUR H. SWEET, Chicago, Ill., assignor to American Tag Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1920. Serial No. 383,692. 5 Claims. (Cl. 46—27.)



1. Shipping tag comprising male portion or tag proper, abbreviated identification piece, and a fastener with which attaching wire or string engages and which connects together the tag proper and identification piece leaving the latter otherwise relatively free so that it remains intact with attaching wire or string and the fastener when the tag proper is torn away from the latter.

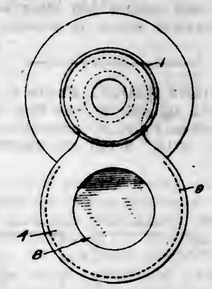
1,386,974. VENDING-MACHINE. WILLIAM G. TEMPLETON, Colorado Springs, Colo. Filed Nov. 30, 1917. Serial No. 204,570. 5 Claims. (Cl. 211—8.)



1. In a vending machine, a casing, a conveyer drum rotatably mounted in fixed position in said casing, a pair of plates, a second conveyer drum directly above said first mentioned drum and rotatably mounted in said plates, an endless conveyer carried by said drums and provided with flights for carrying articles to be vended and spring means for supporting the upper drum, the conveyer and the plates, and for independently adjusting the tension on the two sides of the endless conveyer by altering the relative position of each of the plates with respect to the casing.

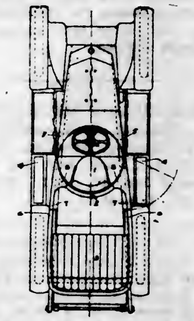
1,386,975. DISINFECTING DEVICE FOR TELEPHONE AND OTHER USES. NORTHEY V. SMITH, Boston, Mass., assignor to George A. Goulston, Boston, Mass. Filed Oct. 23, 1920. Serial No. 418,990. (Cl. 179—185.)

A disinfecting device for telephones embracing front and back members stitched together around their lower edges and having upwardly extending perforated suspension tabs capable of being separated to admit a pad, the front member perforated to allow the escape of fumes into the



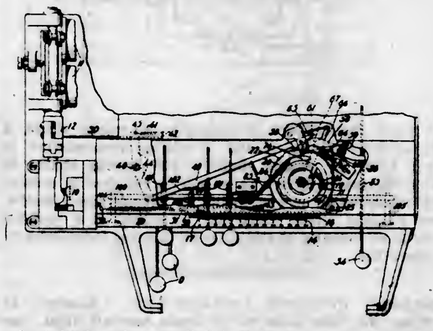
mouth piece, and a disinfecting pad inserted between the two members opposite the perforation in the front member, substantially as described.

1,386,976. ENTRANCE DEVICE FOR AUTOMOBILE-CAR BODIES. MASANORI WATANABE, Tokyo, Japan, assignor to Kyokuto Jidoshia Kogyo Co., Ltd., Tokyo, Japan. Filed July 30, 1920. Serial No. 400,094. 4 Claims. (Cl. 296—64.)



2. In a vehicle, a body provided with an entrance opening, a partition arranged in the body and terminating inwardly of the entrance opening, a door for said opening, and a projection on said door forming a continuation of the partition, when the door is closed.

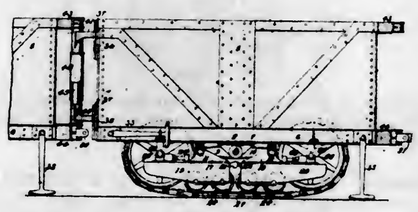
1,386,977. INDICATING MECHANISM. EDWARD F. WATSON, Yonkers, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Aug. 17, 1920. Serial No. 404,210. 4 Claims. (Cl. 164—112.)



1. A keyboard controlled indicator comprising a scale, a pointer adapted to move along said scale, mechanism for

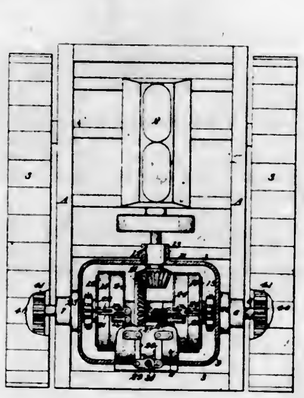
advancing the pointer step by step, actuating means for said mechanism, key levers controlling said actuating means to move said pointer and other key levers controlling said actuating means to prevent movement of said pointer.

1,386,978. TRAILER-WAGON. ELMER E. WICKERSHAM, Stockton, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 13, 1918. Serial No. 249,612. 7 Claims. (Cl. 280—33.)



1. A coupling for trailer wagons comprising a vertical post, vertically spaced draw bars carried pivotally thereby, and connnecting means for the draw bars with the trailer whereby the latter may incline laterally with respect to the draft vehicle.

1,386,979. TRANSMISSION MECHANISM. ELMER E. WICKERSHAM, Oakland, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Aug. 16, 1915. Serial No. 45,638. Renewed Jan. 12, 1921. Serial No. 436,825. 19 Claims. (Cl. 180—9.2.)



1. In a transmission mechanism, an engine shaft, a pair of drive shafts, means permitting transmission of power from the engine shaft to the driving shafts so that both may be driven in unison or run free in unison, said transmission means including change speed mechanism whereby either shaft may be driven at a variable speed independently of the other or run free independently of the other.

1,386,980. CURRENT-DISTRIBUTER. SAMUEL D. WORK, Jr., New York, N. Y. Filed Nov. 19, 1920. Serial No. 425,055. 8 Claims. (Cl. 200—26.)

1. A device of the character described, comprising a rotating contact member, and a stationary plicated spring contact member adapted to be engaged and wiped by the

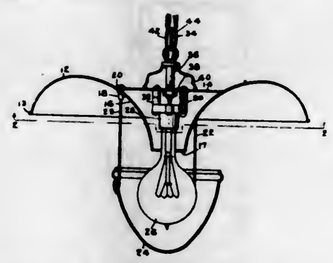


rotating member, said spring member being arranged radially relatively to the rotating member.

1,386,981. PRODUCTION OF METALLIC ALLOYS. WILLIAM BOWMAN BALLANTINE, London, England, assignor to The Empire (Alloy) Steel Corporation, Limited, London, England, a British Corporation. Filed Aug. 19, 1920. Serial No. 404,550. 6 Claims. (Cl. 75—45.)

1. The herein described process for the manufacture of a ferrochrome alloy of low carbon content, which comprises submitting a molten ferro-chrome alloy of high carbon content to the action of an oxidizing blast.

1,386,982. ILLUMINATION DEVICE. RAY D. BARNARD, Minneapolis, Minn., assignor, by direct and mesne assignments, to Ray C. Plant, Minneapolis, Minn. Filed Sept. 2, 1919. Serial No. 320,983. 4 Claims. (Cl. 240—92.)

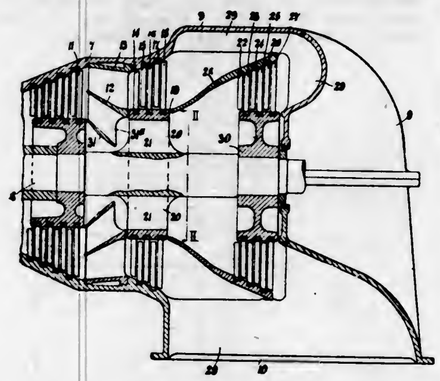


1. An illumination device comprising an upper member consisting of an annular portion and a central portion, said annular portion being concaved on its lower surface to form a reflector, and said central portion bridging the space within the inner circular margin of said annular portion, means attached to said central portion and depending therefrom for supporting a lamp, a hollow inwardly concaved reflecting member whose outer surface is adapted to form a continuation of the lower surface of said annular portion, a light diffusing bowl within which a lamp is adapted to be supported, and means for supporting said hollow member and said bowl from said central portion.

1,386,983. AXIAL-FLOW STEAM-TURBINE. KARL BAUMANN, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited, a Company of Great Britain. Filed July 15, 1919. Serial No. 310,995. 7 Claims. (Cl. 253—69.)

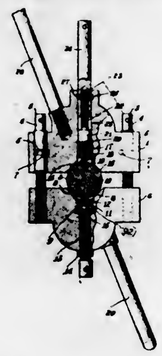
1. A steam turbine of the axial flow type in which the steam leaving the moving blades of an intermediate stage

is divided, one portion thereof flowing through a section of blading comprising one or more rows of stationary and moving blades and thence to the exhaust and another portion flowing through passages contrived in the rotor on which the rows of moving blades of the aforesaid section of blading are mounted and thence through one or more further sections of blading each comprising one or more



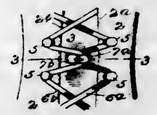
rows of stationary and moving blades to the exhaust, said further section or sections of blading being located farther along the rotor in the direction of the flow of steam through the turbine than said first mentioned section of blading so that the several portions of steam leaving said intermediate stage will flow in parallel in the same axial direction through all of said sections of blading.

1,386,984. TOOL FOR TURNING CRANK-PINS, &c. FREDERICK P. BOLLINGER, Newark, N. J., assignor of one-half to Wilfred J. Peck, Newark, N. J. Filed June 5, 1919. Serial No. 301,861. 5 Claims. (Cl. 82—4.)



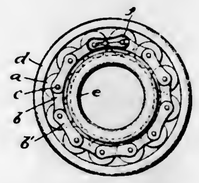
1. In a tool of the character described, the combination of opposite body parts one having a pair of substantially flat bearing surfaces adapted to tangentially engage an approximately cylindrical piece of work, the body part with such bearing surfaces having also a guiding slot between said bearing surfaces symmetrically disposed upon opposite sides of a plane bisecting the angle between the bearing surfaces and said bearing surfaces extending from said slot to the face of the body part, whereby the tool will take work of a maximum range of diameters, an adjustable cutter mounted in said slot to engage the work between said bearing surfaces, means for clamping the body parts on the work, and a bearing surface on the other of said body parts to engage the work.

1,386,985. MEANS FOR SECURING SHOE-TONGUES AND THE LIKE. GEORGE LUTHER BOWERS, Newark, Ohio. Filed Nov. 30, 1920. Serial No. 427,279. 5 Claims. (Cl. 24—117.)



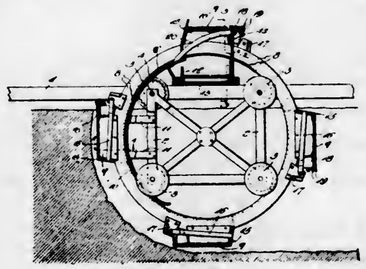
1. Shoe tongue securing means attached to the tongue of a shoe and comprising oppositely facing hook portions extending from the longitudinal center of the tongue laterally thereof toward the opposite sides of the tongue, respectively, the said hook portions adapted to be engaged by the opposite lengths of a shoe lace whereby the tongue is confined against longitudinal and lateral movement in laced position.

1,386,986. ROLLER-BEARING. FRANK BRIERLEY, Manchester, England, assignor to Chain Roller Bearing Company Limited, Stockport, England. Filed June 3, 1919. Serial No. 302,022. 2 Claims. (Cl. 64—62.)



1. In roller bearings, an outer annular ring, a coaxial inner annular ring spaced from the outer ring to provide an annular opening, a row of rollers arranged in the annular opening between said rings and prevented by the rings from axial movement, a bush through each roller, links at opposite sides of the roller rigidly connecting the bushes together in pairs, spindles rotatable in the bushes, links at opposite sides of said rollers rigidly connecting said spindles together in pairs alternating with the first mentioned links, and means for detaching at least one link from the opposite sides of the rollers, as set forth.

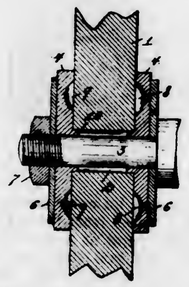
1,386,987. EXCAVATING-WHEEL. HOWARD S. BROWN, Oasis, Utah, assignor to Pawling and Harnischfeger Company, West Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 19, 1920. Serial No. 404,505. 7 Claims. (Cl. 37—17.)



1. A trench digging wheel having spaced side rings, a support for rotatably mounting the wheel including roll-

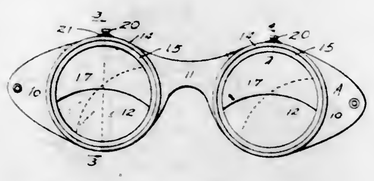
ers engaging said rings, an arcuate strip carried by the support and positioned to one side of the wheel adjacent the inner peripheries of the rings and extending from a point adjacent the lower end of the support to a point above the upper end thereof, a conveyer extending transversely of the wheel above the support and within the wheel, open-ended buckets carried by the wheel and connected with the rings and spanning the space between the same, cutting blades carried by the rings in advance of the open-ended buckets, bottoms for the buckets, arms extending from the bottoms and connected with the cutting blades to mount the bottoms for swinging movement into and out of an operative position, strips carried by the arms between the buckets and cutting blades and having cutting teeth, a scraping blade extending above the conveyer for passing through the bucket as the wheel rotates, and a strip connected with the arcuate strip and extending above the conveyer and connected with the upper end portion of the scaping blade and constituting a cam for engaging the bottoms of the buckets and swinging the same upwardly out of engagement with the scraping blade as the wheel rotates.

1,386,988. ELASTIC COLLAR FOR POLISHING AND GRINDING WHEELS. Gilderoy O. Burlew, Newark, N. J. Filed Apr. 30, 1920. Serial No. 377,839. 4 Claims. (Cl. 51—168.)



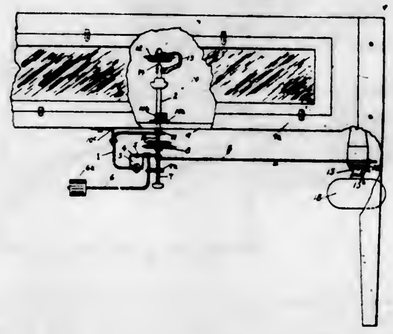
1. In a grinding and polishing wheel, the combination of a pair of apertured rubber clamping collars upon opposite sides thereof, the inner face of each collar being provided with a tubular projection, and further provided with a plurality of gripping means located between said tubular projection and the periphery of said collar.

1,386,989. GOGGLES. Edward C. Cappen, Prosper, Minn. Filed Aug. 10, 1920. Serial No. 402,580. 6 Claims. (Cl. 2—149.)



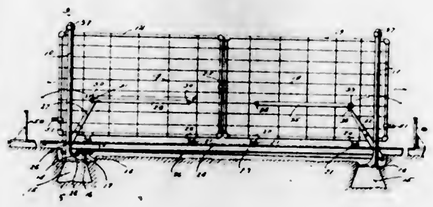
4. In combination with a pair of goggles having transparent eye glass members therein, a pair of shade members adapted to cover a portion of said eyeglass members, said shade members being mounted so as to permit some rotary movement of the shade members around the eye glass members and on an axis at right angles to the face of the eye glass members for the purpose of their adjustment to cover various portions of said eye glass members.

1,386,990. TEMPERATURE-REGULATING DEVICE FOR INCUBATORS AND BROODERS. Ernest D. Charters, Santa Cruz, Calif., assignor to Charters Manufacturing Co., Santa Cruz, Calif. Filed Jan. 27, 1919, Serial No. 273,304. Renewed Aug. 24, 1920. Serial No. 405,735. 9 Claims. (Cl. 236—4.)



1. In a device of the character disclosed, a standard, a pair of brackets on said standard, a lever mounted upon one of said brackets, a thermostat mounted upon said lever, a thermostat mounted upon the other bracket, and a rod extending through said standard and engaging both of said thermostats.

1,386,991. GATE OPENER AND CLOSER. Absalom T. Clark, Winchester, Ind. Filed Jan. 14, 1920. Serial No. 351,428. 1 Claim. (Cl. 39—66.)



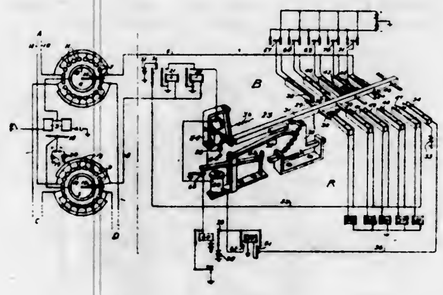
The combination with spaced pairs of spaced posts, the posts of each pair having a common base, of a track extending between and beyond the pairs of posts and between the posts of each pair, a gate disposed between the posts of each pair and adapted to run throughout the corresponding portion of the track, a pair of outwardly extending and longitudinally alined pins secured to each gate, a longitudinal bar secured to the outer ends of the pins of each gate and being spaced from the gate thereby, a pivoted lever between the posts of each pair and having one end disposed between a bar and corresponding gate, said lever end having divergent terminal hooks for alternate engagement with said pins of a gate, and means for simultaneously rocking the levers.

1,386,992. CLOTHES-STICK. William Wesley Crockes, Junction City, Kans. Filed Sept. 15, 1920. Serial No. 410,388. 1 Claim. (Cl. 68—6.)



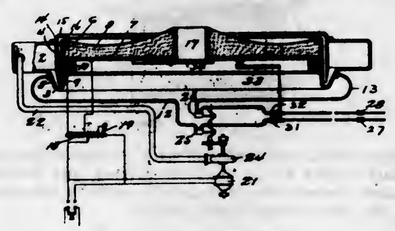
In a clothes stick, a head, said head being approximately spherical in general outline, and provided with spirally disposed ribs, a socket member integral with the head, and a handle having one end fixed in said socket member.

1,386,993. TELEGRAPH SYSTEM. Amos F. Dixon, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 28, 1918. Serial No. 237,070. 2 Claims. (Cl. 178—52.)



1. A telegraph system comprising a main distributer station, independent transmitting and receiving rotary distributers at said station, a plurality of outlying stations, current impulse distributers at each of said outlying stations driven by character signaling impulses sent from the main distributer station, and a circuit extending from each of said main station distributers to each of said outlying stations, one of said circuits being connected directly to alternate segments of said transmitting distributer and the other of said circuits being connected directly to alternate segments of said receiving distributer.

1,386,994. LIQUID-FUEL BURNER. William A. Doble, William A. Doble, Jr., and John A. Doble, San Francisco, Calif., assignors to Doble Laboratories, San Francisco, Calif., a Corporation of California. Filed Apr. 3, 1917. Serial No. 159,448. 4 Claims. (Cl. 158—28.)

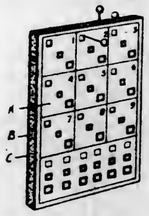


1. In a liquid fuel burner, a nozzle formed of two parts electrically insulated from each other and forming the nozzle opening, and means for causing an electric spark to bridge the nozzle opening.

1,386,995. MANUFACTURE OF GELATINOUS COMPOSITIONS FOR USE IN THE REPRODUCTION OF LINE DOCUMENTS. Félix Dorel, Paris, France. Filed Dec. 2, 1918. Serial No. 265,033. 6 Claims. (Cl. 106—5.5.)

2. A gelatinous composition for use in the reproduction of line documents, said composition consisting of gelatin, ferrous sulfate and a white substance which exerts no chemical action on the gelatin, for the purpose described.

1,386,996. GAME-SCORING DEVICE. William Henry Edwards, Annandale, near Sydney, New South Wales, Australia. Filed Aug. 30, 1916. Serial No. 117,604. Renewed Sept. 16, 1920. Serial No. 410,742. 3 Claims. (Cl. 235—90.)

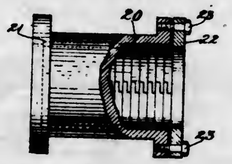


1. A game scoring device comprising a face plate of rigid material provided with a plurality of differently arranged perforations extending entirely through the plate, a pad of pervious renitent material secured to the rear face of said plate, and a pointed score indicating device freely insertible into and withdrawable from the body of said renitent material through the perforations in said face plate.

1,386,997. ART OR PROCESS OF MANUFACTURING PISTON-RINGS. Richard P. Elliott, Lexington, Mass. Filed Feb. 21, 1918. Serial No. 218,598. 10 Claims. (Cl. 29—156.6.)

1. The method of making piston rings, which consists in slotting a closed ring on its opposite sides to split the same and form ends capable of overlapping, applying pressure to the outer circumference of the split ring to close the same, applying pressure to the sides of the ring thus closed to retain it in its closed position, removing the circumferential pressure, treating the outer circumference to render it a true circle while held in its closed position by said side pressure, placing the ring thus

treated within a holder whose inner circumference is concentric with the circumference of the ring, allowing the ring to expand into contact with said holder, securing



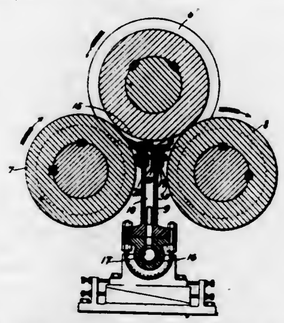
the ring within said holder in fixed relation thereto by pressure applied to the sides of the ring, and treating the inner circumference of the ring to render it concentric with the outer circumference thereof.

1,386,998. PISTON-RING. RICHARD P. ELLIOTT, Lexington, Mass. Filed Mar. 19, 1919. Serial No. 283,571. 3 Claims. (Cl. 74—109.)



1. An inherently resilient piston ring of uniform radial thickness having its end portions curved on radii substantially the radius of the cylinder in which they are intended for use and the intermediate portion of gradually increasing curvature to a point substantially opposite the slot when the ring is open.

1,386,999. TURNING-PLATE. GODFREY ENGEL, Sr., Brooklyn, N. Y. Filed Nov. 3, 1919. Serial No. 335,302. 15 Claims. (Cl. 100—47.)
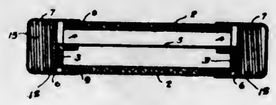


1. A hollow turning plate for cane mills having a juice collecting chamber provided with a juice receiving opening in the top thereof and with an outlet at the bottom thereof for the extraction of the collected juice.

10. A hollow turning plate provided with an inlet in the top thereof and mounted on tubular bearings open to the interior of the plate to enable a rocking adjustment of the plate with respect to the rolls of a cane mill and the extraction of juice through said tubular bearings irrespective of such adjustment.

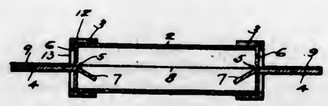
14. In a cane mill, a hollow turning plate provided with juice extracting openings in the top thereof and with reagent supplying openings also in said top, means for supplying a reagent through said latter openings, means for conducting off the juice from the juice extracting openings and means for blowing clear certain of the openings in the turning plate.

1,387,000. RENEWABLE CARTRIDGE-FUSE. FREDERICK J. FISHER, San Francisco, Calif. Filed July 12, 1919. Serial No. 310,394. 3 Claims. (Cl. 200—132.)



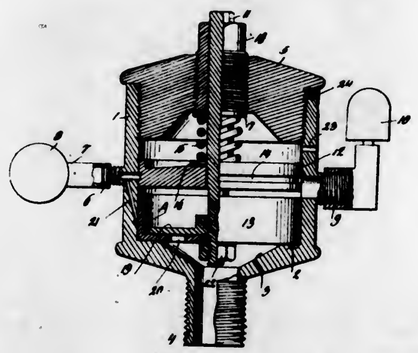
1. A renewable fuse comprising a casing, a backing plate at each end of the casing partly closing the ends of the casing, a fusible metal strip disposed within the casing and having its ends lying adjacent the backing plates, metallic ferrules closing the ends of the casing, spring-pressed contact plates arranged within the ferrules and in pressing engagement with the ends of the strip, and means for retaining the contact plates in the ferrules and for interlocking with the casing.

1,387,001. RENEWABLE FUSE. FREDERICK J. FISHER, San Francisco, Calif. Filed July 12, 1919. Serial No. 310,395. 6 Claims. (Cl. 200—132.)



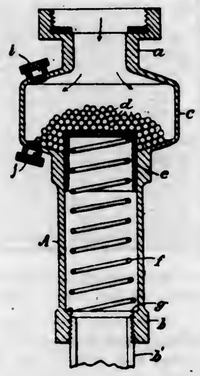
3. A renewable fuse comprising a casing, terminals arranged at the ends of the casing, a fusible element extending through the casing and overlying said terminals and frictional socket clamps pressing the fusible element against the terminals.

1,387,002. ALARM FOR AIR-BRAKE SYSTEMS. ROLAND L. FLINN, Alberton, Mont. Filed Feb. 3, 1921. Serial No. 442,121. 3 Claims. (Cl. 116—55.)



1. An alarm for air brake systems including a casing engageable with the air line and equipped with means movable under air of predetermined pressure to permit the exhaust of a certain volume of the air from said casing, a container in communication with said casing to receive the air exhausted from the latter, and alarm mechanism in communication with said casing and said container to permit passage of air from said container into said mechanism for sounding the alarm when the air pressure into the casing in insufficient to operate said means.

1,387,003. ANTIFOULING MUFFLER FOR FLUSH-PIPES. EDWARD G. HEDGES, Newark, N. J. Filed Feb. 14, 1920. Serial No. 358,740. 6 Claims. (Cl. 137—75.)



1. An anti-fouling device having a casing and a perforated support movable in the casing with muffling material carried upon such support, and means to sustain the support yieldingly and to restore it to its initial position after yielding.

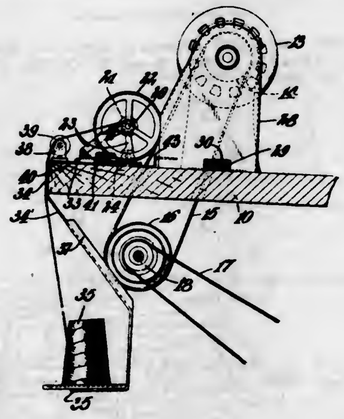
1,387,004. PROCESS FOR MAKING PAPER AND PAPER-LIKE MATERIALS WATERPROOF AND IMPERMEABLE TO AIR, AT THE SAME TIME MAINTAINING THEIR SUPPLENESS, AND ARTICLES MADE FROM SUCH MATERIALS. LUDWIG HEILBRONNER, Stuttgart, Germany. Filed May 3, 1920. Serial No. 378,711. 8 Claims. (Cl. 91—68.)

1. The process of producing supple water-proof material impermeable to air, which comprises treating a fabric with a solution mixture of a gelatin and a starch containing substance, and after drying treating the product with an oil.

7. A fabric comprising a base of fibrous material having an impregnation of gelatin rendered insoluble in water, and agar-agar, maintained flexible by a hygroscopic material and oiled.

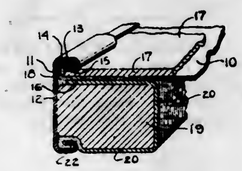
1,387,005. SAFETY AND BOBBIN-WINDER ATTACHMENT FOR SEWING-MACHINES. JACOB HOCHMAN, New York, N. Y. Filed Feb. 9, 1921. Serial No. 443,536. 5 Claims. (Cl. 242—20.)

5. In a sewing machine, in combination, a bobbin winding device, a bench supporting said device, a drive belt by which said device is adapted to be operated, a pair of pulleys located one above and one below said bench and over which said belt is looped, a guard hinged to said bench and adapted to cover the upper pulley, said guard having an angularly projecting base flange, a spring normally urging said guard to inoperative position, a bracket hinged to said bobbin winding device and extending downward under the bench and having an outturned foot at its lower end adapted to support a reel of thread, a pair of ears projecting from said bracket and forming a guard for the lower pulley, and a bar movably secured upon the said bench and having at one end a finger engaging said first guard to retain the same in operative position, said bar having a lateral offset at its opposite end adapted to support said bracket with the said ears removed from



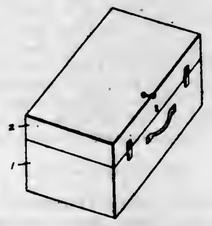
guard forming position when the said bar has been moved to disengage the said finger from the said first guard.

1,387,006. WASHTUB-COVER. JACOB KANSTEIN, Newark, N. J. Filed Oct. 6, 1920. Serial No. 415,063. 2 Claims. (Cl. 220—73.)



1. A tub cover comprising an upper plate of sheet metal and a surface sheet of wear resisting material over the sheet metal, and an edge binding strip of sheet metal, said edge binding strip being bound to the sheet metal upper plate by a double seam joint extending inwardly from the edges of the cover at the top side thereof and in which double seam the edges of the wear resisting material are received and compressed.

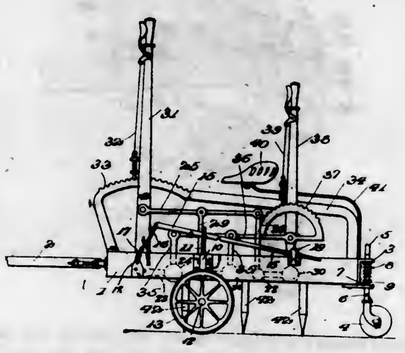
1,387,007. PRINTING-CASE. LEO A. KELLY, Houston, Tex. Filed Sept. 25, 1920. Serial No. 412,645. 5 Claims. (Cl. 217—8.)



1. A case of the character described, including a box-like section having a transverse partition, a cabinet hinged to the case and arranged to fit into the compartment one side of the partition, said cabinet being movable in

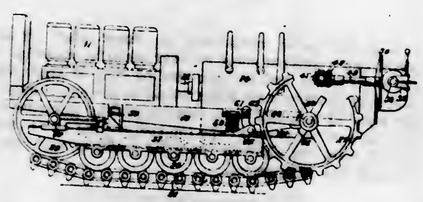
vertical position, a cover for said cabinet hinged thereto and arranged to be opened and closed, and when in open position, resting on said partition and forming a table.

1,387,008. HARROW. WILLIAM MCCONAL, San Saba, Tex. Filed Jan. 9, 1920. Serial No. 350,326. 5 Claims. (Cl. 55—90.)



1. An agricultural implement comprising a main frame, a plurality of harrow bars mounted in the main frame, means for simultaneously adjusting all said bars rotatively, and means for simultaneously raising or lowering said bars.

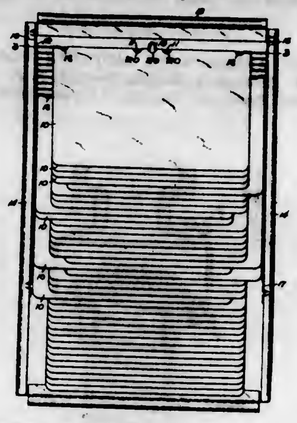
1,387,009. TRANSMISSION MECHANISM FOR TRACTORS. EMIL F. NORELIUS, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Nov. 8, 1918. Serial No. 261,631. 7 Claims. (Cl. 180—9.2.)



1. A power transmission mechanism comprising a casing, a driving shaft carried thereby, an axle driven by the shaft, sprockets freely mounted to rotate on the opposite ends of the axle, brake drums contained within the case and fixed to rotate with the sprockets, gear means inclosed within the brake drums and adapted to be positively driven by the axle and power operated means adapted to affect the gears within the brake drums to cause acceleration in the speed of one sprocket and reduction in the speed of the other as compared with the speed of the driving axle.

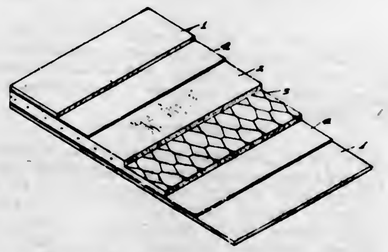
1,387,010. FILING AND INDEXING EQUIPMENT. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 2, 1918. Serial No. 260,848. 15 Claims. (Cl. 129—16.)

1. In an equipment of the class described, the combination of a sheet and a sheet-holder extending through said sheet, said sheet and sheet-holder having cooperating interengaging means providing for securing them in any



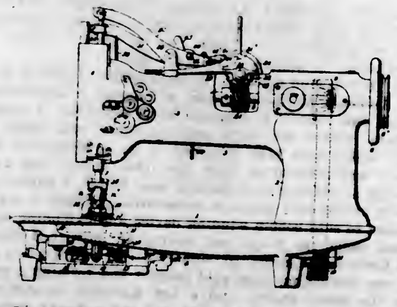
one of a plurality of predetermined relative positions with respect to the length of said sheet-holder.

1,387,011. COMPOSITION BOARD. ARTHUR RATCLIFF, Chicago, Ill. Filed May 7, 1920. Serial No. 379,500. 4 Claims. (Cl. 154—45.9.)



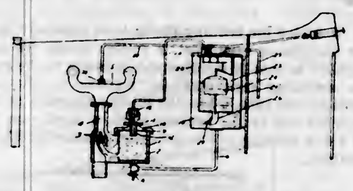
1. A composition board comprising outer layers of veneer, intermediate layers of metallic reinforced composition material, and waterproof material interposed between said other layers and said intermediate layers.

1,387,012. STRIP-SEVERING DEVICE FOR SEWING-MACHINES. JOHN C. RINGE, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Jan. 4, 1918. Serial No. 210,350. 15 Claims. (Cl. 112—130.)



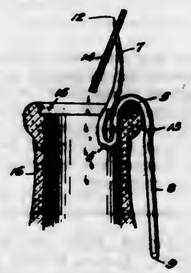
1. In a sewing machine, the combination with a stitch-forming mechanism and actuating mechanism therefor including a main-shaft, a guide for guiding a stay-tape and a feeding mechanism for presenting said tape and a body-fabric to the action of said stitch-forming mechanism, a prime member carried by said main-shaft, a cutter blade and a detector-head, of means for operatively connecting said cutter-blade and detector-head with said prime member to first actuate said detector-head, followed by the prime member acting on said cutter-actuating mechanism to cause said cutter-blade to sever said stay-tape at the completion of each taping operation.

1,387,013. CARBURETER. JESSE T. ROBINSON, Birmingham, Ala. Filed Jan. 28, 1919, Serial No. 273,666. Renewed Jan. 8, 1921. Serial No. 435,990. 2 Claims. (Cl. 158—36.)



1. In combination, a carbureter, an oil supply tank disposed above the carbureter and having an oil feed pipe connected to the carbureter below the oil level therein, an air vent pipe leading from the tank above the oil level therein and opening into the carbureter at the oil level to be maintained therein, normally closed means for the admission of oil into said tank, and means to adjust the level of the open end of said vent pipe in said carbureter, substantially as described.
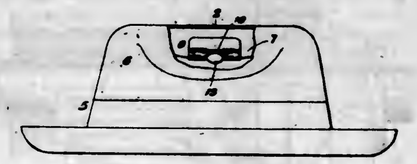
1,387,014. MILK-BOTTLE-STOPPER REMOVER. TOM W. SAUL, Seattle, Wash. Filed May 11, 1921. Serial No. 468,789. 3 Claims. (Cl. 65—47.)



1. A device of the character described comprising a piece of wire formed to provide a pointed prong at one end, a shank at the other end and with two reverse bends at about its midlength, one of said bends affording a recess which is engageable with the mouth of a bottle to maintain the device in a substantially vertical position with the prong end thereof uppermost.

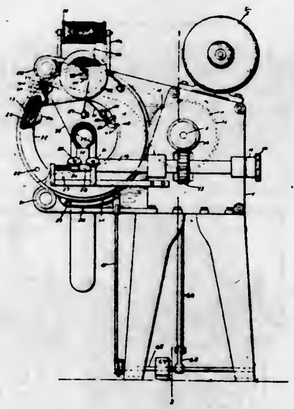
1,387,015. HAT-CROWN-CREASE-RETAINING DEVICE. FRANK J. SCHALOW, East New York, N. Y., assignor of one-half to August H. Schalow, East New York, N. Y. Filed July 17, 1920. Serial No. 396,900. 2 Claims. (Cl. 2—108.)

1. A hat crown crease retaining device composed of spring sheet metal and comprising a cylindrical portion in one side of which is a narrow longitudinal slot, the side walls of which are provided with projecting flanges or



plates, the cylindrical portion being also provided opposite the slot therein with a longitudinal thumb and finger recess.

1,387,016. WRAPPING-MACHINE. JOHN SCHERNER and EDWARD HUTCHENS, Milwaukee, Wis., assignors to Pierce Wrapping Machine Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 3, 1916. Serial No. 88,563. 17 Claims. (Cl. 242—6.)

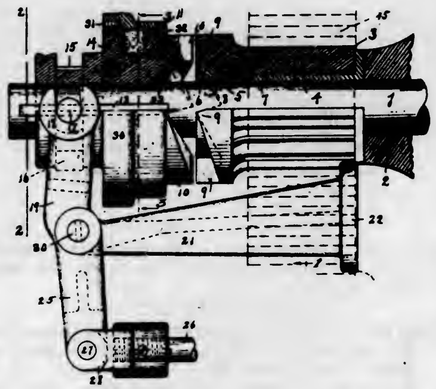


17. In a wrapping machine an annular shuttle having its center clear to permit the rotation of a tire-casing therethrough, means to support and rotate a tire casing through the plane of said shuttle, a source of wrapping material mounted on said shuttle; said shuttle being adapted to wind said material about said casing spirally, and a device mounted on said shuttle adapted to produce a moistened adhesive condition of said wrapping material whereby the successive spiral convolutions of the wrapping material will be adhesively joined to one another.

1,387,017. RESILIENT CLUTCH. HENRY COLLIER SMITH, St. Marys, Ohio. Filed Nov. 3, 1919. Serial No. 335,291. 1 Claim. (Cl. 192—55.)

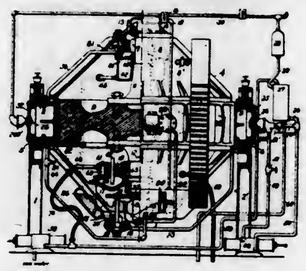
A clutch comprising a pair of members one of which is formed with clutch jaws and the other of which comprises an outer and inner part, the outer part being formed with an annular groove and a circular recess, a pair of shock absorbing pads in said recess, one of said pads being formed by groups of layers of leather positioned transversely of the recess and blocks of metal

between the groups, the inner part being positioned in said annular groove and having clutch jaws adapted to



engage with the clutch jaws of the first named member and also having a jaw extending between said resilient pads.

1,387,018. LUBRICATING AND COOLING SYSTEM FOR GYROSCOPES. ELMER A. SPERRY and EDWARD G. SPERRY, Brooklyn, N. Y., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 16, 1918. Serial No. 254,342. 12 Claims. (Cl. 184—6.)

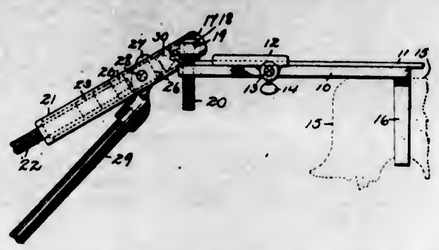


3. The combination with a gyroscope having a rotor shaft, journal bearings therefor and other bearings for supporting the gyroscope for oscillations about an axis, of an oil circulatory system for said bearings comprising a reservoir adjacent the axis of said other bearings, direct and return conduits leading from said reservoir to said journal bearings, a pump mounted on and driven by the gyroscope for circulating the oil, and an extraneous pump for circulating the oil while the gyroscope is starting up.

1,387,019. CANDY-MAKING. JOEL STARRELS, Niagara Falls, N. Y. Filed Oct. 30, 1919. Serial No. 334,585. 2 Claims. (Cl. 99—11.)

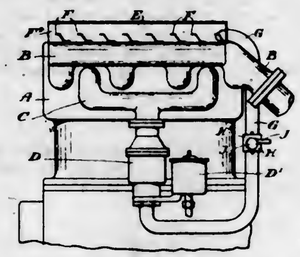
1. A composition of matter including chocolate and hardened cocoa butter of which the amount of said cocoa butter and the degree of hardness thereof are such as to give the mixture a relatively high melting point with reference to chocolate.

1,387,020. DEVICE FOR FORMING EYES IN METAL STRIPS. WILLIAM M. STIDWORTHY, Hackettstown, N. J. Filed June 8, 1920. Serial No. 387,418. 5 Claims. (Cl. 153—40.)



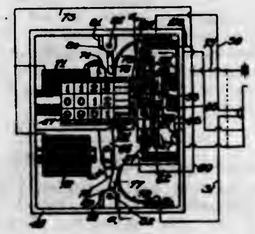
1. A device for bending the ends of metal strips to form eyes comprising a support, a roller, means for mounting the roller so that it is adjustable relative to the support, a yoke swinging concentrically relative to the roller, a handle on the yoke, a bearing block adjustable in the yoke, a cam pivoted in the bearing block, a handle on the cam, and a dog slidable in the yoke and against which the cam operates.

1,387,021. TREATMENT OF AIR FOR INTERNAL-COMBUSTION-ENGINE CARBURETERS. FENTON F. STRATTON, East Croydon, England. Filed May 23, 1916. Serial No. 99,352. 7 Claims. (Cl. 83—29.)



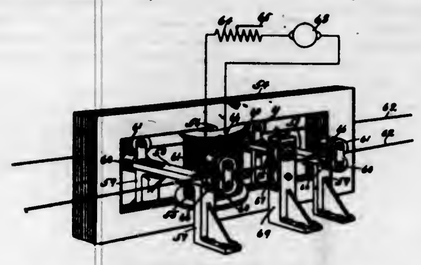
1. In a device of the character described, in combination with a conduit for the passage of a heating element, of a chamber disposed thereabout for the admission of air to be heated by the element, said chamber being open at one end and having a connection at its opposite end with a carbureter, and a plurality of inclined baffles arranged within the chamber for screening the air prior to its admission to the carbureter.

1,387,022. APPARATUS FOR REGISTERING THE FLOW OF LIQUID. ADOLPH STUBER, Rochester, N. Y. Filed Nov. 8, 1916. Serial No. 130,154. 4 Claims. (Cl. 235—94.)



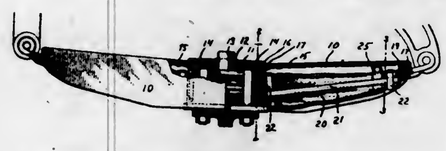
2. An apparatus for registering the flow of liquid, comprising an electric switch, a registering member, an armature operatively connected with said registering member, spaced contacts adjacent said armature arranged to be alternately engaged by the latter, electromagnets having windings one end of each of which is connected with said armature, conductors connecting the last mentioned contacts and the other ends of said windings with said switch, the latter being arranged to alternately close the circuit through each of said magnets and said armature for the purpose of effecting movement of the armature in opposite directions whereby said registering member is moved to indicate the units of liquid discharged from the container.

1,387,023. METHOD OF AND APPARATUS FOR TREATING METAL. HERBERT D. SWIFT, New York, N. Y., assignor to International Automatic Appliance Corporation, a Corporation of New York. Filed Mar. 27, 1920. Serial No. 369,361. 12 Claims. (Cl. 219—11.)



1. The method of annealing metal which method consists in inducing in the metal to be annealed an electric current of sufficient amperage and maintained for sufficient length of time to generate an annealing heat in said metal.

1,387,024. SPRING COVER AND LUBRICATOR. GEORGE H. TABER, Binghamton, N. Y. Filed Jan. 24, 1921. Serial No. 439,352. 9 Claims. (Cl. 267—37.)



9. A cover and lubricating device for a leaf spring comprising a wrapping adapted to maintain lubricant and supply the same to the spring, and a cover member protecting said wrapping and secured to the spring, said cover member having means to space the same from the wrapping whereby wear of the latter is avoided.

1,387,025. CONCRETE PIPE. WILLIAM M. WALKER, Seattle, Wash. Filed July 6, 1920. Serial No. 394,018. 6 Claims. (Cl. 72—51.)



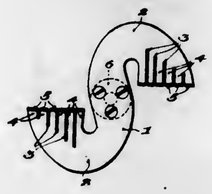
1. A concrete pipe composed of tubular sections arranged in end to end abutting relation and having longitudinal reinforcing elements embedded therein, said elements being provided with looped extremities, said tubular sections being provided with substantially radial pockets extending through the loops of the reinforcing elements, said tubular sections being further provided in their peripheries with a plurality of relatively shallow recesses extending from said pockets to the adjacent end edges of the respective sections, and substantially U-shaped coupling elements having the arms thereof positioned in adjacent pockets of the adjoining pipe sections with the intermediate portions of the coupling elements seated in the adjacent recesses of said sections.

1,387,026. GRIPPER-ARM. LEROY J. WARNER, Fostoria, Ohio. Filed Jan. 24, 1920. Serial No. 353,895. 1 Claim. (Cl. 101—413.)



A gripper arm of the class described, comprising a bar having its back face longitudinally grooved near its inner and outer ends and a spring metal facing strip fixedly mounted at one end in one groove and having its other end slidingly mounted in the other groove, the facing strip forming a plurality of undulations lengthwise thereof with the connecting portions of the undulations bearing against the bar in sliding contact therewith and with the outwardly bowed portions thereof projecting laterally of the bar.

1,387,027. SCRAPER FOR CLEANING IRREGULAR SURFACES. ISAAC A. WATROUS, Bridgeport, Conn. Filed Apr. 9, 1921. Serial No. 460,071. 4 Claims. (Cl. 144—115.)

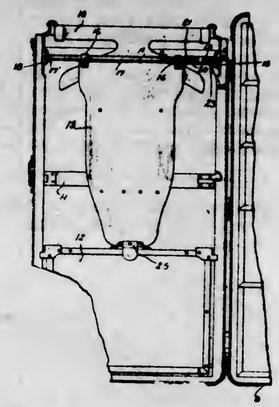


1. A rotary disk action cutter comprising spring arms carrying independently acting teeth extending from the outer circle of the path of the arms toward the center of said circle.

1,387,028. TRUNK IRONING-BOARD. GEORGE HENRY WHEARY, Racine, Wis. Filed July 9, 1920. Serial No. 395,113. 7 Claims. (Cl. 190—13.)

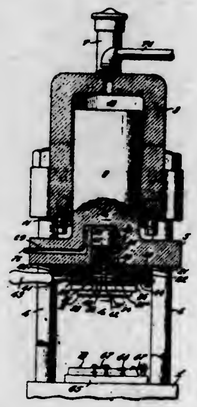
1. The combination with a trunk section having a shoe box, of an ironing board therefor, comprising brackets mounted on the opposite side portions of the trunk section, a board member having a transverse rod at its

inner end portion which removably engages the brackets, a socket member mounted on the shoe box, and a support-



ing leg member connected to the other end portion of the board and removably engaging the socket member of the shoe box.

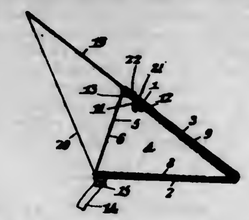
1,387,029. EMPLACING APPARATUS. EDWIN L. WIEGAND, Pittsburgh, Pa. Filed Nov. 11, 1920. Serial No. 423,470. 14 Claims. (Cl. 18—1.)



1. In a machine of the character set forth, the combination of two press members, one of which is movable toward and from the other, hydraulic means for actuating the movable member, a movable control member for governing the hydraulic means, electro-magnetic means for locking the control member in inoperative position, an electric circuit including an electro-magnetic means, and means rendered effective by the placement of work between the press members for closing the circuit thereby to energise the electro-magnetic means and unlock the aforesaid control member.

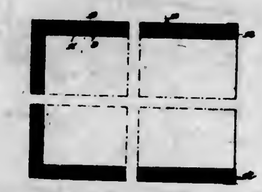
1,387,030. INHALATION DEVICE. JOSIAH H. WILLIAMS, Baltimore, Md. Filed Aug. 6, 1919. Serial No. 315,678. 10 Claims. (Cl. 128—187.)

3. An inhalation device comprising a flexible receptacle having an outlet, and a frame composed of spring-pressed top and bottom members fitted in said receptacle for holding the top and bottom walls thereof spread, the



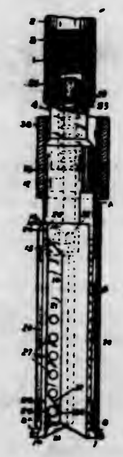
bottom member of said frame being composed of perforate material.

1,387,031. TALKING-MACHINE HORN. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Apr. 28, 1915, Serial No. 24,450. Renewed Jan. 3, 1921. Serial No. 434,782. 13 Claims. (Cl. 181—27.)



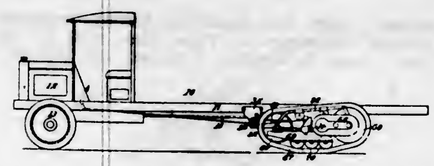
1. A talking machine horn, having a wall of a single thickness of material, and an independent wall of laminated material.

1,387,032. UNDERREAMER. CLYDE S. WRIGHT, Toledo, Ohio, assignor to The National Supply Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 20, 1920. Serial No. 375,272. 9 Claims. (Cl. 255—75.)



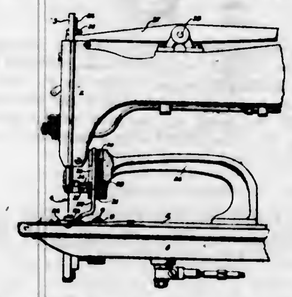
1. In an underreamer, a body, a fixed underreaming bit carried thereby at its lower end, a complementary underreaming bit movable longitudinally and laterally from its working position to its collapsed position, and yieldable means tending to move the movable bit toward its working position when displaced therefrom.

1,387,033. AUTO-TRACTOR. CHARLES F. BALL, Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif., a Corporation of California. Filed Sept. 11, 1918. Serial No. 253,644. 9 Claims. (Cl. 305—3.)



1. In combination with a motor vehicle having a floating rear axle, the housing of which is provided near its ends with flanges normally serving to connect brake-bands in place, a sleeve arranged to fit over the end of the axle housing when the wheel is removed and to connect with said flange, a self-laying track mechanism having a hub portion to fit over said sleeve, means carried by the sleeve and hub to interlock when the parts are turned angularly and means to prevent angular movement of the hub on the sleeve when the parts are assembled.

1,387,034. WORK-HOLDER FOR SEWING-MACHINES. WILLIAM L. BARRON and ALBERT F. FIFIELD, Newark, N. J., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed July 23, 1919. Serial No. 312,803. 14 Claims. (Cl. 112—114.)

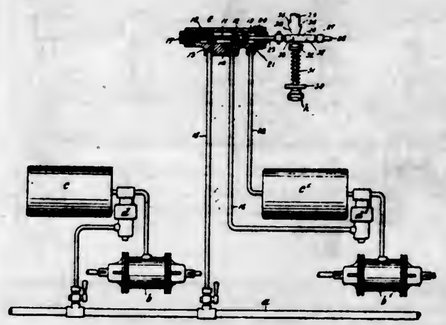


4. In a work-clamp, upper and lower relatively movable work-clamping members, one of said members having a countersunk aperture adapted to retain an article to be attached to the work, and the other member comprising means complementary to the countersink for holding the work against the article.

12. In a work-clamp, a patch-carrying part, means whereby said part may be slid from operative position for reception of a patch, and means coacting with the patch-carrying part for firmly holding the periphery of the patch in engagement with a superposed work-piece.

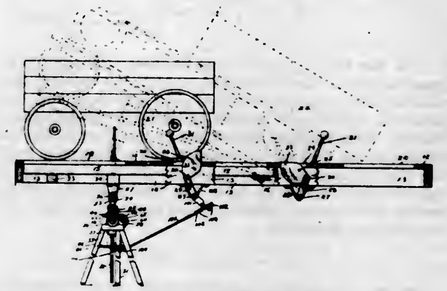
1,387,035. CONTINUOUS AUTOMATIC FLUID-PRESSURE BRAKE FOR RAILWAY AND LIKE VEHICLES. ARTHUR MORTON BELL, Bombay, India, assignor to Taite & Carlton, Westminster, London, England, a Firm consisting of John Charles Taite, Frederick Jocelyn Davis, and Geoffrey Charles Brindley Taite. Filed June 28, 1919. Serial No. 307,290. 4 Claims. (Cl. 303—23.)

1. In an automatic fluid-pressure brake apparatus, the combination of a train-pipe, a supplementary fluid-pressure reservoir, a supplementary brake-cylinder, a triple valve connected with said reservoir and said cylinder, a connection between the triple valve and the train-pipe, a control-valve in said connection, a spring under the action of which said valve constantly tends to assume a closed position in which said connection is closed, a manually-operable cam for moving said valve to an open position in which said connection is open, a spring for restoring said cam to its inoperative position and means whereby, when pressure exists in the supplementary fluid-pressure reservoir, although the control-valve still remains open, said cam becomes potentially freed to the action of said spring in such a manner that, on the brakes being



completely released or allowed to leak off, the cam will be automatically restored to inoperative position, thus permitting the automatic return of the control-valve itself to the closed position, substantially as and for the purpose set forth.

1,387,036. VEHICLE-DUMP. EDWARD R. BENSON, Minneapolis, Minn., and MILTON S. CRANDALL, Sioux City, Iowa. Filed Nov. 15, 1919. Serial No. 338,407. 5 Claims. (Cl. 214—49.)

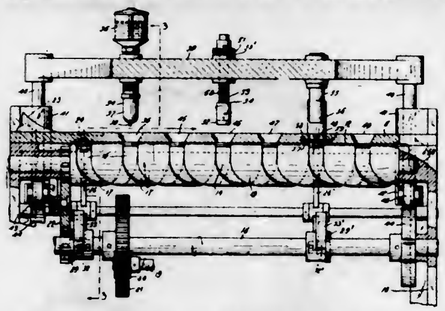


1. A vehicle-dump embodying vehicle-supporting means movable to and between normal and two other positions to accordingly move a vehicle to and between its normal and two different inclined positions, actuating mechanism for said means, mechananism for preselecting the one of said positions to which said means is to be moved, and means governed by the preselecting mechanism for de-energizing the actuating mechanism when said first means has reached the preselected position.

1,387,037. MACHINE FOR THE MANUFACTURE OF BOTTLE-CLOSURES. JOHN BINDER, New York, N. Y., assignor to International Cork Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 26, 1919. Serial No. 326,514. 1 Claim. (Cl. 113—114.)

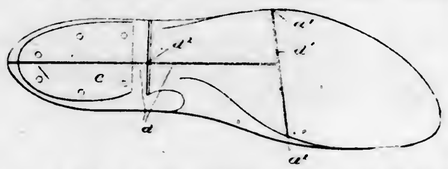
In a machine for the manufacture of bottle closures of the cap variety, the combination with a machine frame having a horizontal table portion provided with a straight groove in its underface, of a continuously rotating carrier comprising a cylinder having a helical groove accommodating a portion of each cap, another portion of each cap being seated in said straight groove, each turn of said helical groove consisting of a section running in a plane at right angles to the longitudinal axis of said cylinder and a curved section connecting said first-mentioned section with the similar section in the next turn in the

series, said table portion being provided with a line of apertures extending therethrough to the groove therein, said apertures being spaced apart corresponding to the



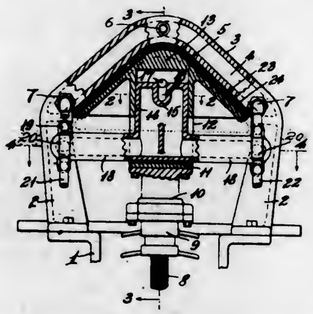
pitch of said helical groove, whereby the caps advanced by said carrier along said straight groove are simultaneously stopped when in alinement with said apertures.

1,387,038. ORTHOPEDIC LAST. ELMER J. BLISS, Boston, Mass. Filed Oct. 20, 1919. Serial No. 332,001. 7 Claims. (Cl. 33—3.)



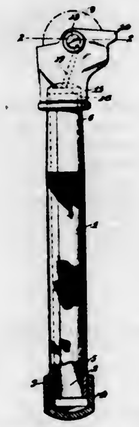
1. A last for the manufacture of shoes embracing in its construction a last block and a ball determining gage member affixed to the bottom of said last block and comprising a longitudinal member extending a pre-determined distance from the rear or heel end of the block to the ball portion of the fore-part of the last, and a transverse member united to said longitudinal member and having its opposite ends located to define the correct location of the outside ball and the inside ball portions of the last, substantially as described.

1,387,039. HEATING MECHANISM FOR PRESSES. CHARLES L. BRALEY and GEORGE N. LINK, Cincinnati, Ohio, assignors to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed July 18, 1917. Serial No. 181,411. 11 Claims. (Cl. 68—9.)



1. Ironing apparatus, comprising coöperating ironing members between which the work is ironed, one of said members being movable toward and from the other to produce the ironing effect, a stationary heating member for heating the movable ironing member, and means for supplying heating medium to the heating member.

1,387,040. TOOL FOR DRESSING EMERY-WHEELS. FRANCIS C. BRANDENBURG, Piqua, Ohio. Filed Apr. 10, 1919. Serial No. 288,934. 2 Claims. (Cl. 125—37.)



1. In a dressing tool, a hollow handle forming a lubricant chamber, a head carried thereby including a bearing with ducts leading from the handle to the bearing, said bearing being below the center line of the lubricant chamber whereby the ducts are inclined downwardly toward the bearing when the handle is in a horizontal position to provide gravity feed for the lubricant.

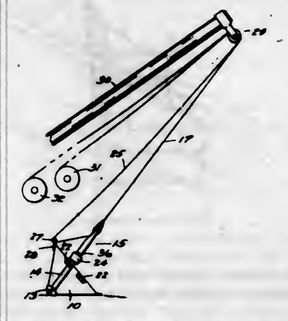
1,387,041. FRICTIONLESS SPRING. EARL D. BROWN, Bakersfield, Calif. Filed Jan. 29, 1921. Serial No. 440,928. 1 Claim. (Cl. 267—49.)



In a spring of the class described, the combination of a top and a bottom leaf, intermediate leaves interposed between the top and bottom leaf, each intermediate leaf provided in its under face and near its end with a recess open at both ends, said recess provided with an outer, vertical wall and an inner, comparatively long, beveled wall, a roller in each recess being prevented from moving too far outwardly by the vertical wall and being permitted to move inwardly over the beveled wall to cause the contiguous leaves to be spread apart, and said rollers provided with flattened ends bearing against the side edges of the leaves, substantially as shown and described.

1,387,042. EXCAVATING AND HOISTING APPARATUS. THEODORE CARLSON, Stillwater, Wash. Filed June 29, 1920. Serial No. 392,760. 2 Claims. (Cl. 37—54.)

1. In apparatus of the character described, the combination of a scraper pan, a ball pivotally connected thereto adjacent to the pan bottom, a collar sleeved on each of the legs of said bail, means engageable with the respective collars provided on the sides of the pan and adjacent to its top, a sheave attached to the ear end of the pan, sheaves depending from the bail above the pan, a tilting rope extending about the first named sheave and



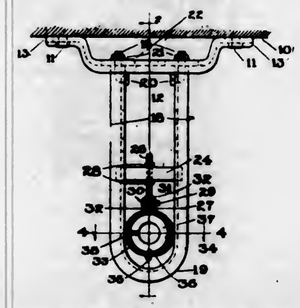
having branches extending about the respective second named sheaves and secured to said collars for disengaging the latter from said means, means provided upon the legs of said bail to serve as stops for the respective collars, and a pan-hoisting rope secured to the bail.

1,387,043. UNIVERSAL JOINT-COUPLING. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed June 14, 1917, Serial No. 174,647. Divided and this application filed June 22, 1918. Serial No. 241,370. 6 Claims. (Cl. 64—91.)



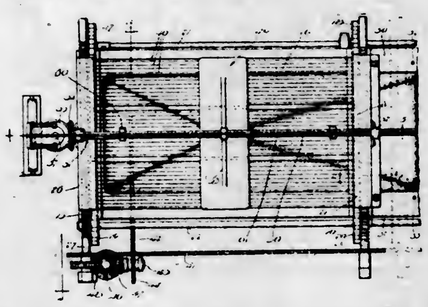
1. In a universal joint for line shafts made up of a plurality of sections, coupling members on the abutting ends of adjacent shaft-sections, one of said coupling members having substantially flat walls defining a diametrically arranged slot therein with a central recess at the bottom of the slot and the other of said coupling members having a tongue-like projection with convex cylindrical faces the elements of which faces are disposed in parallelism to the walls defining the slot in the first-mentioned coupling member, said projection extending into said recess to thereby keep said faces and walls in coöperative engagement but permitting a limited relative angular rotation of the walls and faces about an axis at right angles to said walls defining the slot.

1,387,044. SHAFT-HANGER. JEREMIAH C. FITZGERALD, Kilbourn, Wis. Filed July 21, 1920. Serial No. 397,998. 5 Claims. (Cl. 64—14.)



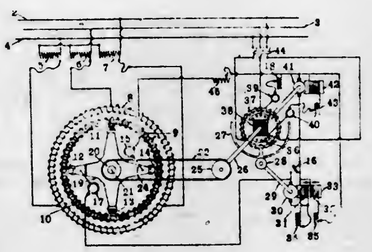
5. In a shaft hanger, the combination with a supporting base, of a substantially U-shaped frame mounted at its ends on said base and having in its inner walls a series of longitudinally disposed and spaced openings, of a transversely disposed supporting member detachably located at its ends in a pair of said openings, an expansible keeper pivotally connected to said member, said keeper being cross-sectionally outwardly bellied, and a flexible split bearing member for a shaft located within said keeper.

1,387,045. CORD-POLISHING MACHINE AND THE LIKE. EDWARD I. FRIEDMAN, Chicago, Ill. Filed Mar. 21, 1919. Serial No. 284,152. 10 Claims. (Cl. 51—57.)



1. In a machine of the class described, the combination with a main frame, of a pair of chain carriers mounted for carrying movement transversely thereof, a worm screw adjacent to each of said chain carriers, means for driving the worm screws in unison, a polishing shoe adapted for reciprocating motion back and forth between the chain carriers, abrasive material on the lower surface of said shoe, a longitudinally extending worm screw, an operative connection between said screw and shoe aforesaid, a reversal clutch mechanism in conjunction with said screw, means in conjunction with said shoe for reversing said clutch mechanism at each end of the travel of the shoe, and a plurality of supplemental cord frames adapted to be supported by and moved with the chain carriers, each of said supplemental frames having in its end portions rotatable cord hooks, and a worm on each cord hook for engagement with the adjacent transverse worm screw, for the purpose of causing rotation of the cord hooks during the movement of the supplemental frames through the machine, substantially as described.

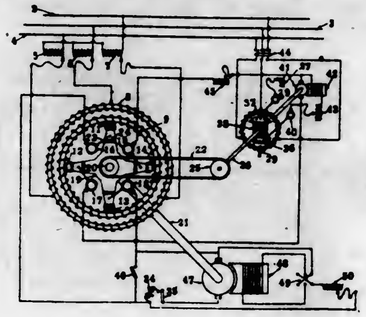
1,387,046. POLYPHASE MOTOR. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 14, 1917. Serial No. 148,511. 16 Claims. (Cl. 172—280.)



9. In an alternating current motor the combination of an inducing member provided with a polyphase winding, an induced member provided with a permanently short-circuited winding and a commuted winding, brushes co-

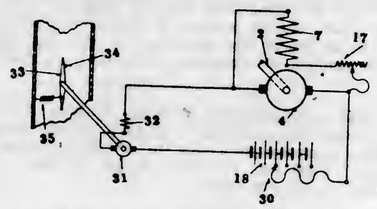
operating with said commuted winding to close the same along one axis per pole pair, and automatic means for maintaining the axis of said brushes in the axis of the revolving field produced by the inducing member.

1,387,047. POLYPHASE MOTOR. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 14, 1917. Serial No. 148,512. 15 Claims. (Cl. 172—280.)



1. In an alternating current motor, the combination of an inducing member provided with a polyphase winding, an induced member provided with a commuted winding and two sets of brushes per pole pair coöperating therewith, means for supplying a direct current phase compensating E. M. F. to one set of brushes, means closing the circuit of the other set of brushes, and means for revolving all of the brushes at such speed as to cause the relative speed of the brushes and the inducing member to equal the synchronous speed.

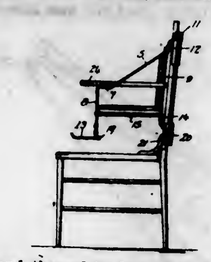
1,387,048. SPEED-REGULATING APPARATUS. VALÈRE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 5, 1919. Serial No. 308,865. 4 Claims. (Cl. 290—40.)



1. The combination with a prime mover of a speed controlling device therefor, and means for actuating said controlling device, said means comprising a dynamo electric machine driven by the prime mover and an independent source of E. M. F. in circuit therewith, and means for varying the magnitude of said independent E. M. F.

1,387,049. CHILD'S CHAIR. BENJAMIN O. GUNDERSON, Chicago, Ill. Filed Oct. 23, 1919. Serial No. 332,692. 1 Claim. (Cl. 155—79.)

A chair comprising two like side frames, each frame having a front member forming a front leg extending vertically from its lowermost end to a seat support and thereabove to form a short horizontal arm and from thence in a rearward upward direction to a point near the top of the chair, where it joins the rear frame member; a rear frame member forming a rear leg extending to the point of juncture with the upper end of the front member, the rear member extending rearwardly from the seat support to increase the dimensions of the chair base and extending rearwardly from said point of juncture, at its upper end, into substantially the same vertical plane



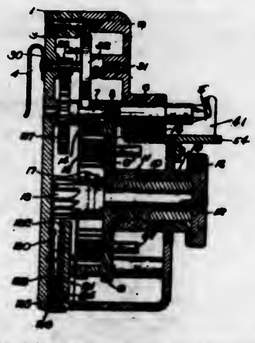
as the lower end thereof to form a hook; a seat support connecting the front and rear members; means connecting the side frames together and a perforated seat resting on the connecting members and between the frame members.

1,387,050. THERMAL CIRCUIT-CLOSER. ANTON HASLINGER, Philadelphia, Pa. Filed Mar. 15, 1919. Serial No. 282,870. 2 Claims. (Cl. 200—137.)



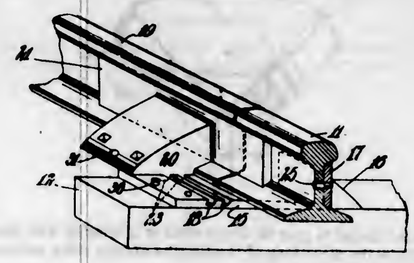
2. In a device of the character described, the combination with a frame and a thermostatic element mounted on the frame and movable to close an electric circuit, a contact member adapted to be engaged by said thermostatic element and a gravitationally movable cam-like member mounted to swing on the frame and movable to engage the thermostatic element and normally hold it out of contact with said contact member.

1,387,051. KNOT-TYING IMPLEMENT. EDGAR F. HATHAWAY, Boston, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a Corporation of Illinois. Filed June 15, 1915. Serial No. 34,289. 46 Claims. (Cl. 289—5.)



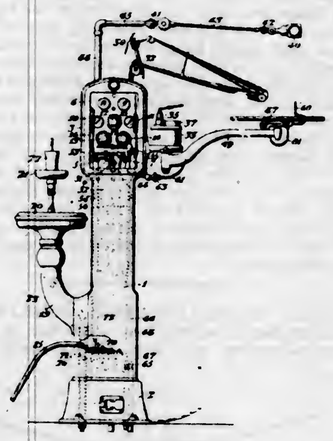
1. A thread knotting implement having knotting means, motor means therefor, and trigger means for the motor, said trigger means being adapted to be operated by manual presentation thereto of the threads to be knotted.

1,387,052. RAIL-FASTENER. FRANK HASNER and LEOPOLD GASIOREK, Newark, N. J. Filed May 4, 1921. Serial No. 466,855. 1 Claim. (Cl. 238—198.)



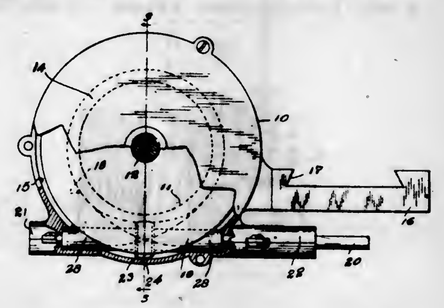
A rail fastening device comprising a chair-plate having an integral projection on one side adapted to engage over the base flange of the rail, a fish-plate formed on and projecting at its ends beyond said extensions, a bracket adapted to rest on the other side of the chair-plate and engage over the base flange of the rail, said bracket having longitudinal tongues thereon engaging in complementary grooves in the said chair-plate, a fish-plate element formed on and projecting at its ends beyond said bracket, a tie on which the chair-plate rests, said tie having a recess formed in its upper face, said chair-plate having a socket formed therein in registry with said recess and said bracket having an aperture therein which registers with the said socket, a stud located in said socket adapted to engage in said aperture, a spring in said socket normally urging said stud upwardly, a stem formed on said stud and extending downward into the recess, and a collar on said stem located in said recess and adapted to bear against the bottom of said chair-plate to limit upward movement of said stud.

1,387,053. DENTAL-EQUIPMENT STAND. GEORGE D. HECK, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 14, 1919. Serial No. 282,587. 3 Claims. (Cl. 32—5.)



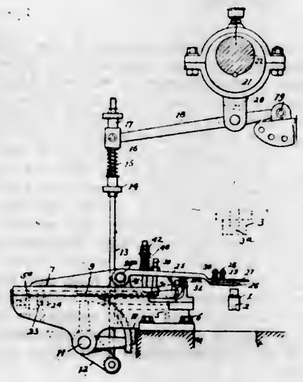
1. A dental equipment stand comprising a pedestal terminating in an accessory head disposed substantially coaxial therewith and embodying a switchboard, and a plurality of instruments operatively connected with said switchboard.

1,387,054. INTERMITTENT MECHANISM. WASYL HUCAL, Chicago, Ill. Filed June 17, 1919. Serial No. 304,819. 1 Claim. (Cl. 74—41.)



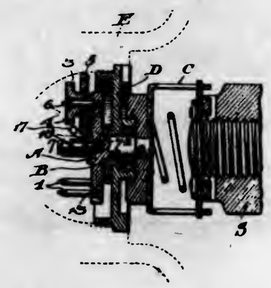
A device of the character described comprising a circular case having a back body portion and integral cylindrical wall, an oil-tight cover plate thereon, a shaft concentrically revoluble in the case, a cam thereon having a peripheral groove with partly spiral form in parts, a second member engaged in the groove for intermittent rotation thereby under rotation of the cam, said second member being revoluble on an axis at right angles to that of the cam, and having a shaft extended in each direction on its axis, and enlarged at its inner parts, said case having an opening in the wall, for lateral movement of the second member into and out of engagement with the cam, a cap member to close the opening having bearing parts to engage the enlarged parts of the last named shaft, the case and cap having parts to form an oil-tight closure around the shaft.

1,387,055. MECHANISM FOR FEEDING BLANKS TO METAL-WORKING MACHINES. JOHN KAASE, Cleveland, Ohio, assignor to The Upson Nut Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 6, 1919. Serial No. 336,086. 22 Claims. (Cl. 10—166.)



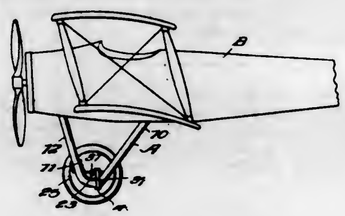
1. The combination with a hollow die member adapted to receive a blank to be operated upon, of a reciprocating lever, means for reciprocating the lever, means for moving the lever in a vertical direction during its reciprocation and means for feeding blanks into the path of movement of said lever and intermediate the limits of the path of reciprocation of said lever, whereby the lever engages the blank and moves it to said die.

1,387,056. COUNTER-OPERATING MECHANISM FOR HUB-ODOMETERS. RUDOLF R. KANICH, Woodhaven, N. Y., assignor to The American Taximeter Company, New York, N. Y., a Corporation of New York. Filed May 8, 1919. Serial No. 295,803. 5 Claims. (Cl. 235—95.)



1. A counter operating mechanism for hub odometers including a rotatable driving plate, a stationary counter support, a driving gear unit mounted on the counter support to rotate in a plane parallel to the plane of rotation of the driving plate, and means for actuating the driving unit also operating in a plane parallel to the plane of operation of the driving plate and operatively connected therewith.

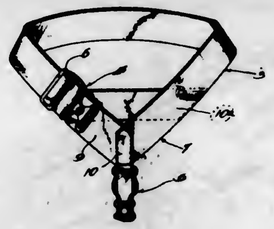
1,387,057. LANDING-GEAR FOR AEROPLANES. HAROLD M. KUDO, Honolulu, Hawaii. Filed Dec. 1, 1919. Serial No. 341,563. 7 Claims. (Cl. 244—2.)



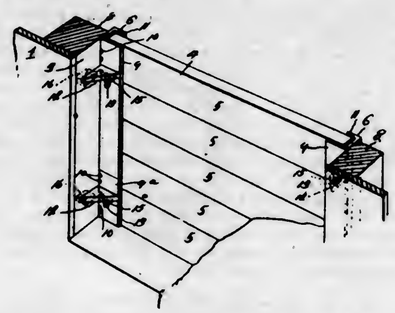
5. In a landing gear for aeroplanes, the combination with an airplane fuselage, substantially V-shaped depending struts carried thereby, of members hingedly connected to said struts comprising a plate detachably connected to a leg of each of said depending struts, a hinged section connected to each of said plates, and comprising a flat plate and an arcuate plate integrally formed, said arcuate plate being concaved to be disposed within the apex of said V-shaped struts, a block insert for each of said hinged sections having an opening therein, an axial structure comprising a main body, and spindle ends detachably carried by said main body and adapted for insertion within said block insert, wheels carried by said spindles, ears upwardly projecting from said hinged section and upon the free end thereof, a resilient band connecting the free end of said hinged member to said strut, and means carried by said strut for maintaining said resilient band in a predetermined position to support the axle structure.

1,387,058. GARTER. GUSTAV H. LUNEBURG, Chicago, Ill. Filed Oct. 30, 1920. Serial No. 420,631. 3 Claims. (Cl. 241—6.)

3. As a new article of manufacture a garter comprising a strip of material adapted to pass around the leg of the wearer, in conjunction with a triangular shaped pad of elastic material, a catch fixedly secured to the lower corner of said pad, means for detachably securing the other end of the strip to a fixed point at the upper corner of the pad, the pad comprising a continuous strip of elastic material folded to provide three sides of a triangle and yieldable in the directions of the lengths of said sides, substantially as described.

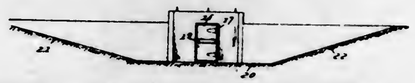


1,387,059. GRAIN-CAR DOOR. GEORGE L. MCALLISTER, Omaha, Nebr. Filed Aug. 27, 1919. Serial No. 320,162. 1 Claim. (Cl. 20—30.)



An auxiliary door for grain cars comprising vertically disposed channels having their body portions secured to the vertical sides of the door opening, a series of superimposed boards of less width than the space between the channel iron flanges, each of said channels having its outer flange pivoted to the outer edge of the body portion thereof, a U-shaped member carried by each of said outer flanges, right angled flange holding members horizontally disposed in the corners between the outer flanges and the vertical posts of the door opening, a depending lug carried by each of said right angle flange holding members and adapted to engage the U-shaped member of the adjacent outer flange to hold said outer flange in parallel relation to its mating inner flange and apertures in the faces of the vertical post for receiving the U-shaped members of the flanges when the right angled holding members are removed, thereby allowing the hinged flanges to be placed in the same vertical plane as the body portions of the channels, and the superimposed boards to be easily removed from the channels.

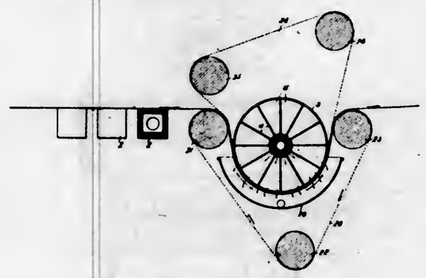
1,387,060. CHARCOAL-BURNING APPARATUS. WILLIAM H. MCGEE, Austin, Tex. Filed Aug. 13, 1920. Serial No. 403,228. 2 Claims. (Cl. 202—10.)



1. In a charcoal burning apparatus, a pit, a furnace wall therein spaced from the wall of the pit, the said walls having openings through their sides and vertically disposed channels merging with the openings, dampers in

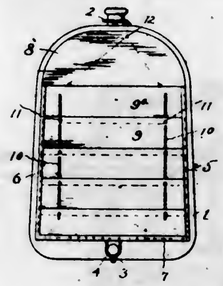
the said vertically disposed channels adapted to enter the openings, damper rods connected to the dampers and slidable in the channels, doors adapted to close the top of the said furnace, and a door in the front of the said furnace.

1,387,061. PAPER-MAKING MACHINE. LESTER ERNEST MILKEY, Sandusky, Ohio. Filed Aug. 6, 1920. Serial No. 401,725. 11 Claims. (Cl. 92—38.)



1. A paper making machine, comprising a blower having a perforated cover about which the paper to be dried is trained, a pair of perforated supports between which the paper is carried past the perforations of the blower, and means directing dry air radially from said blower through said paper and perforated supports.

1,387,062. AIR-CIRCULATION-CONTROLLING DEVICE FOR AUTOMOBILE-RADIATORS. GEORGE G. MARSHALL, Cleveland Heights, Ohio. Original application filed Dec. 26, 1918, Serial No. 268,378. Divided and this application filed Nov. 21, 1919. Serial No. 339,594. 2 Claims. (Cl. 257—132.)



2. An air controlling device adapted for mounting upon an automobile radiator, comprising a frame, having side members, which are channel shaped in cross-section, a plurality of shutters extending transversely of the frame, the ends of the shutters extending within the walls of the channels of the side members whereby the shutters are guided, each of the shutters being provided with a slot and a projection, the projection upon each shutter coöperating with a slot formed in an adjacent shutter and means for raising the shutters.

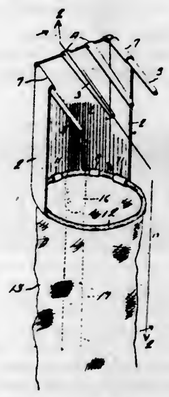
1,387,063. BRUSH. SHINICH MATSUGAKI, Tokyo, Japan. Filed Dec. 21, 1920. Serial No. 432,277. 2 Claims. (Cl. 15—30.)

1. A pocket brush comprising a case open at its ends, a member slidable in said case and having bristles which may be projected beyond one end of the case, and a cap having a portion adapted to fit in the case, and detachably connected to said slidable member, said cap also having a



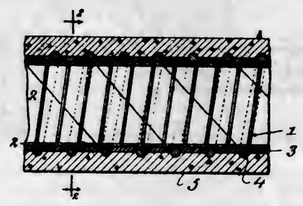
portion adapted to fit over the case, when said cap is detached from said slidable member and to close the first named end of the case and protect the bristles.

1,387,064. FRUIT-PICKER. FRED J. MILLER, Silver City, Iowa. Filed Oct. 11, 1920. Serial No. 416,088. 3 Claims. (Cl. 56—340.)



1. A fruit picker formed from sheet metal and comprising a vertically disposed body portion having side flanges, inwardly extending sheet metal fingers integrally joined to the upper end of the body member, sleeves carried by the upper end of the side flanges and encircling the outer fingers, integral sleeves carried by the lower ends of the body member and the side flanges for receiving a canvas chute ring, and an integral downwardly extending handle receiving collar carried by the lower end of the body member.

1,387,065. METHOD OF MAKING REINFORCED MOLDED CONDUITS. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Jan. 6, 1921. Serial No. 435,406. 2 Claims. (Cl. 25—154.)



1. The method of making a reinforced molded conduit, which consists in, first, applying to a tubular lining con-

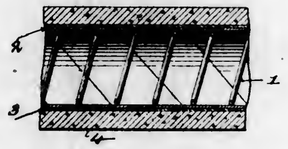
structed to fit within said conduit, a coating of adhesive material; second, inclosing said coated lining in a spiral strip of metal; third, coating said lining with plastic material to form the conduit body.

1,387,066. MEANS FOR WITHDRAWING A LINING OF FLEXIBLE MATERIAL FROM THE BORE OF A CONDUIT. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Jan. 6, 1921. Serial No. 435,407. 2 Claims. (Cl. 25—128.)



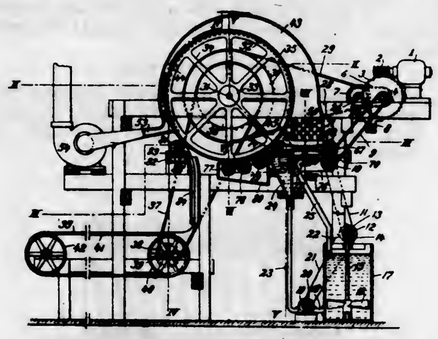
1. A conduit molding device, comprising a flexible tubular core, and a spiral wire inclosing and engaging said core for withdrawing the same longitudinally from the molded conduit.

1,387,067. METHOD OF MAKING A MOLDED CONDUIT. THOMAS E. MURRAY, Brooklyn, N. Y. Filed Jan. 6, 1921. Serial No. 435,408. 1 Claim. (Cl. 25—155.)



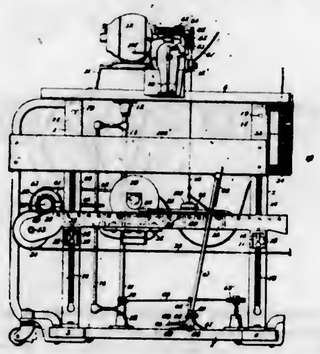
The method of making a molded conduit, which consists in, first, producing a spiral metal core; second, covering said core with flexible material; third, applying to said cover a coating of adhesive material; fourth, forming upon said coated core the conduit body of plastic material and allowing the same to harden, and fifth, withdrawing said spiral core.

1,387,068. PROCESS OF AND APPARATUS FOR THE MANUFACTURE AND HANDLING OF METALLIC-LEAF FILMS. CARL P. OLSON, Irvington, N. J. Filed Aug. 6, 1920. Serial No. 401,642. 11 Claims. (Cl. 18—57.)



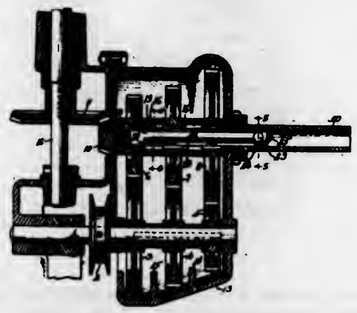
1. The process of forming imitation metallic leaf as a continuous film, consisting in agitating a film-forming suspension of bronze-powder to such degree that the powder does not appreciably settle in the suspending medium; dipping said suspension while in an agitated condition, applying same as a coating to a revolving surface on a line lower than the axis of rotation of said surface, subjecting the coating so formed to a current of preheated air, and removing the resultant film while the surface is revolving.

1,387,069. FILLED-SACK-SEWING APPARATUS. FREELAND W. OSTROM, Newark, and IRVING F. WEBB, Elizabeth, N. J., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Jan. 24, 1918. Serial No. 213,504. 16 Claims. (Cl. 112—11.)



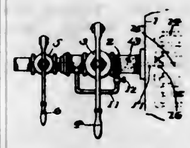
1. In a filled sack sewing apparatus, in combination with seam-forming and sack-conveying mechanisms, and driving means for said mechanisms, of work-controlled means for effecting action and inaction of one of said mechanisms, and manually operable means for arresting the action of each of said mechanisms independently of the other mechanism.

1,387,070. SPEED-CHANGING POWER-TRANSMISSION DEVICE. MARCELLIN POUGET, Detroit, Mich. Filed Oct. 18, 1919. Serial No. 331,578. 4 Claims. (Cl. 74—59.)



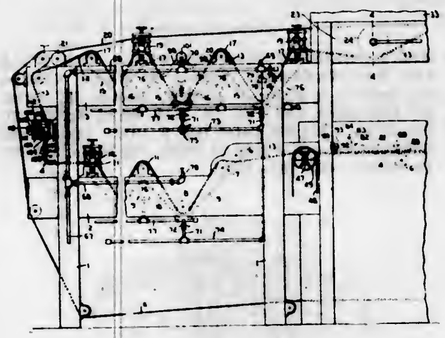
1. A speed-changing power transmission device comprising a driving shaft having a series of gears rotatable therewith, a driven shaft having gears rotatably mounted thereon each being in mesh with a complemental gear on the driving shaft, tubular members extending between the hubs of the gears of the driven shaft holding the same in spaced relation, said driven shaft having a slot and the driven gears each having keyways in the surface contacting the shaft adapted to be engaged by the key, the hub ends of said gears having a series of inclined portions each terminating at a keyway, a key extending through the slot of the shaft to engage the gear hub, the said inclined faces leading the key to the keyway, and means for moving the key longitudinally of the shaft from one gear to the other.

1,387,071. SPRAYING APPARATUS. CHARLES P. PRICE, Boston, Mass., assignor to American Tar Company, Boston, Mass., a Corporation of Massachusetts. Filed May 13, 1918. Serial No. 234,218. 3 Claims. (Cl. 299—35.)



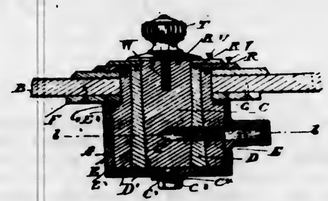
2. The combination with a tank wagon having an outlet pipe and a controlling valve therefor adjacent the tank, of a heating drum located centrally of the outlet pipe and extending longitudinally thereof between the main valve and the tank, a steam pipe connected to the drum for supplying the same with steam, a steam pipe connected with the drum through which the steam is discharged therefrom, said last named pipe extending outwardly through the outlet pipe.

1,387,072. APPARATUS FOR TREATING TEXTILES AND OTHER MATERIALS. BENJAMIN W. PUTNAM, Jamaica Plain, Mass. Filed June 3, 1918. Serial No. 238,038. 37 Claims. (Cl. 8—16.)



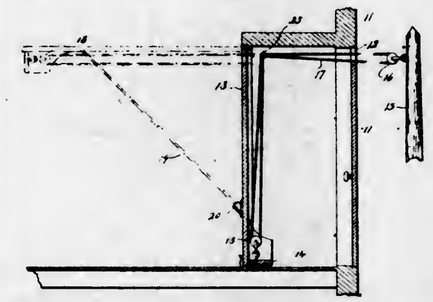
1. An apparatus for treating material comprising a plurality of simultaneously-movable reticulated members adapted to clamp the material therebetween in a thin layer, means for moving said members in unison in the direction of their length with the material between them, and means acting on said material during the movement of said members.

1,387,073. COMBINATION MULTIPLE VALVE AND LOCK. EDWARD P. REILLEY, Cleveland, Ohio. Filed Apr. 14, 1920. Serial No. 373,746. 3 Claims. (Cl. 251—6.)



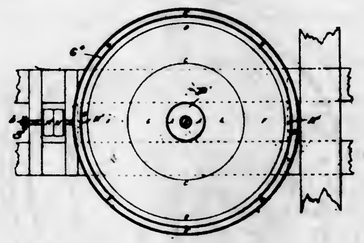
1. In a locking valve, the combination with a cylindrical casing having inlet and outlet openings arranged at an angle to each other, of an annular valve member having an outwardly tapered inner side, an intermediate annular valve tapered outwardly on its outer side and inwardly on its inner side, and a central inwardly tapering valve, and means for securing said inner and outer valves in said casing, said valves being provided with passages adapted to register with each other and with the openings in said casing.

1,387,074. CLOTHESLINE DEVICE. DAVID E. ROGANSON, Branford, Conn. Filed Sept. 26, 1919. Serial No. 326,478. 1 Claim. (Cl. 68—3.)



In combination with a structure having a floor and an inwardly extending horizontal rigid member, and a support exterior of the structure, a member pivoted to the inner end of the rigid member and having its lower end formed when vertical to lie adjacent the floor of the structure, means to support the pivoted member horizontally within the structure, pulleys borne by the exterior support and the lower end of the pivoted member, a clothes line engaged about the pulleys and means approximately beneath the rigid member to engage intermediate parts of the clothes line.

1,387,075. ORE-CONCENTRATOR. CHARLES C. RUEGER, Benicia, Calif. Filed Sept. 6, 1919. Serial No. 322,112. 8 Claims. (Cl. 83—88.)

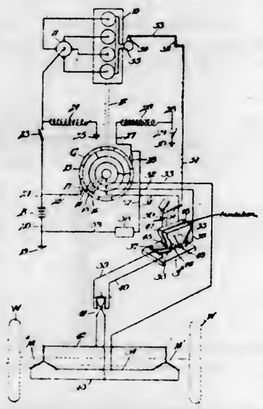


1. An apparatus for concentrating ore sand, comprising a circular pan having a circular central rim for the discharge of tailings or waste, and a circular peripheral rim for the discharge of concentrates, the lowest or deepest part of said pan being located along a circular channel intermediate and concentric to the said discharge rims, the pan bottom rising from said lowest level by concentric slopes to said central and peripheral discharge rims, means for oscillating said pan, and a pulp feeder for said pan.

1,387,076. MOTOR-VEHICLE. JABEZ F. SHAWHAN, Dayton, Ohio. Filed Jan. 19, 1917. Serial No. 143,308. 6 Claims. (Cl. 290—11.)

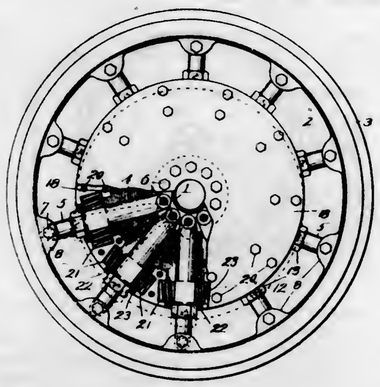
1. In a motor vehicle the combination of a prime mover, an electric machine mechanically connected with

the prime mover, a storage battery connected in circuit with said electric machine to be charged thereby when said machine operates as a generator, means whereby current may be supplied to said machine to drive it as a motor to start the prime mover, means for supplying constant flux to said machine, a driving wheel or wheels



for the vehicle, an alternating current motor or motors connected to the working circuit of said electric machine and mechanically connected to the driving wheels, and means for varying the speed of the prime mover to vary the speed and current supply of said generator.

1,387,077. SPRING-WHEEL. JEFFERSON D. SHORT, Albuquerque, N. Mex. Filed Oct. 1, 1918. Serial No. 256,392. 1 Claim. (Cl. 152—28.)



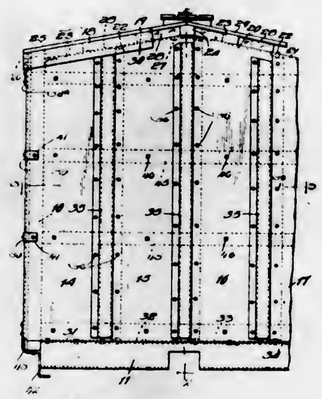
A spring wheel, comprising an inner member, consisting of a pair of disks, blocks and radially arranged spokes alternating in a circular series between said disks, said blocks being bolted rigidly to the disks and the spokes pivoted to the latter at their inner ends, pins projecting from the spokes, expansive coiled springs fitted around said pins and engaging sockets in the adjacent blocks, a circular outer member surrounding the inner member, outer spoke members pivoted at their outer ends to said outer member and fitting telescopically in the first-named spokes, and expansive coiled springs within the inner spoke members and abutting at one end thereagainst and at their other ends against the outer spoke members.

1,387,078. OIL-BURNER. THOMAS SIMON, San Francisco, Calif. Filed Oct. 5, 1920. Serial No. 414,806. 5 Claims. (Cl. 158—74.)



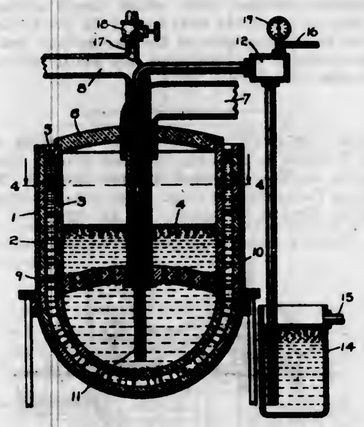
1. In an oil burner, a casing divided into two compartments longitudinally thereof and one of said compartments further divided to form a fuel compartment and an atomizing agent compartment, pipes with perforations extending from the fuel compartment and atomizing agent compartment into the undivided compartment of the casing, and a nozzle on the end of the casing adjacent the free ends of said pipes.

1,387,079. REINFORCED-SHEET-METAL END WALL FOR RAILWAY-CARS. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Original application filed Dec. 10, 1915, Serial No. 66,127. Patent No. 1,324,569, dated Dec. 9, 1919. Divided and this application filed July 24, 1919. Serial No. 312,898. 10 Claims. (Cl. 105—410.)



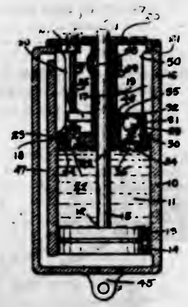
1. An end structure for a railway car comprising a plurality of sheet metal panels in vertical arrangement one beside the other, the edges of which overlap each other, one of said overlapping edges, in each case, being formed with a pressed out rib providing a roof supporting post and the corresponding edge of the other panel being secured to said first named panel, said panels being formed on their upper and lower edges with flanges and said hollow ribs falling short of said flanges, in each case.

1,387,080. TANK. HARRY F. SMITH, Lexington, Ohio, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 17, 1918. Serial No. 212,330. 14 Claims. (Cl. 23—1.)



1. In a tank adapted to contain a chemically active material, a shell, a lining therein inert to the material to be used in said tank, and means intermediate the shell and lining for sealing any leaks in said lining.

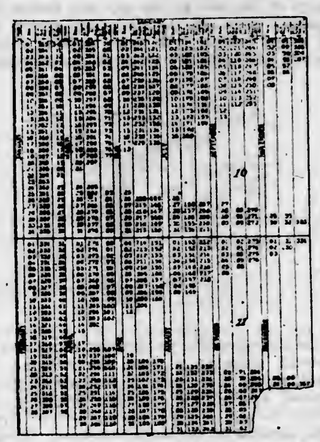
1,387,081. SHOCK-ABSORBER FOR VEHICLES. FRANKLIN WESLEY SPRINGER, Minneapolis, Minn. Filed Aug. 31, 1917. Serial No. 189,120. 10 Claims. (Cl. 188—88.)



1. A shock absorber comprising a casing forming a cylinder and an adjoining chamber connected with the same having a liquid therein, a piston in the cylinder having a bearing in the casing, means for controlling the flow of liquid between the chamber and cylinder and means for conducting liquid driven through the piston bearing back into the adjoining chamber.

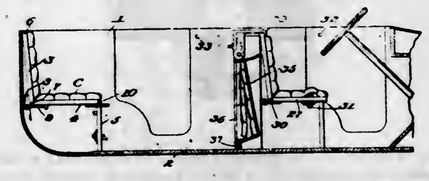
1,387,082. TIME-CALCULATOR. EMIL C. STUMME, Readlyn, Iowa. Filed Jan. 2, 1920. Serial No. 348,716. 1 Claim. (Cl. 283—2.)

A time calculator comprising a book of pages each of which is divided into twelve month groups each consisting of a number of vertical columns, one column of each month group having forwardly progressing dates of the month, corresponding columns of the month groups having the numerical days of the year in reverse order and continued throughout all of the month groups, the remaining corresponding columns of the month groups having the numerical days of the year in forwardly progressing order and continued throughout all of the month



groups, the first-named columns representing dates of the months, the second-named columns representing past numbers of days, while the third-named columns represent the future numbers of days.

1,387,083. CONVERTIBLE SEAT FOR AUTOMOBILES. LORENZO B. WELCH, Fort Smith, Ark. Filed Apr. 1, 1920, Serial No. 370,368. Renewed Mar. 19, 1921. Serial No. 453,712. 3 Claims. (Cl. 155—7.)

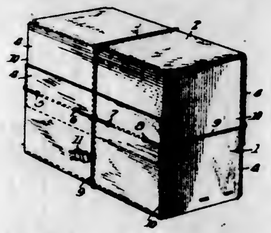


1. The combination with the sectional hinged rear seat members pivoted to the rear of the car and means for supporting said sections in horizontal position, of a front seat comprising a back supported in the car, a seat bottom pivoted to the back, a transverse frame at the rear of the front seat, a hinged plate on said frame having an engaging flange to hold said seat back in normal position, means for attaching the seat bottom to the sides of the car, and said seat back and bottom adapted to be moved to horizontal position to form a continuation of the front seat sections, for the purpose described.

1,387,084. BOX. HARVEY H. WELLS, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,591. 1 Claim. (Cl. 229—46.)

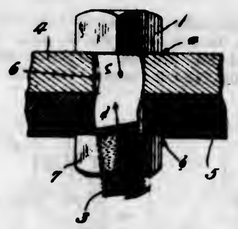
The combination with a box formed of sheet material and having four rectangular sides whose top and bottom edges respectively define rectangles, two opposite sides of the box being formed with foldable wing extensions projecting from the top and bottom edges thereof, the remaining opposite sides of the box being also formed with foldable wing extensions projecting from the top and bottom edges of these remaining box sides, the latter wing extensions upon the top of the box and also those upon the bottom of the box overlapping each other at their free ends, the first aforesaid wing extensions being inclosed by said overlapping wing extensions, an outer-

most one of the latter wing extensions having four holes distributed along its free end; of a string circumscribing the box and passing in one plane over those top and bottom corners of the box at the top and bottom edges of those opposite sides of the box from which the first aforesaid wings extend, this string passing through the holes nearest the adjacent sides of the box into place



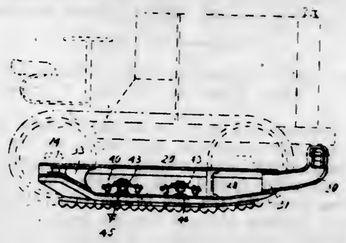
between the corresponding overlapping wings and through the remaining holes to be upon the exterior of these wings, said string also being passed about the box in another plane substantially at right angles to the first and between the box and the portion of the string that is upon the exterior of the box and between the aforesaid remaining holes.

1,387,085. LOCKING BOLT AND NUT. FREDERICK C. WHIPPEY, Chicago, Ill. Filed Nov. 9, 1920. Serial No. 422,754. 3 Claims. (Cl. 151—21.)



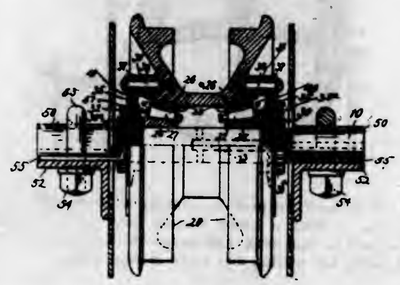
1. A device of the character described comprising a bolt whose head is designed to have a projecting contact point on its impinging face and a nut on said bolt also having a projecting contact point on its impinging face.

1,387,086. TRACK-LAYING TRACTOR. ROLLIN H. WHITE, Cleveland Heights, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed Nov. 18, 1918. Serial No. 262,937. 2 Claims. (Cl. 305—9.)



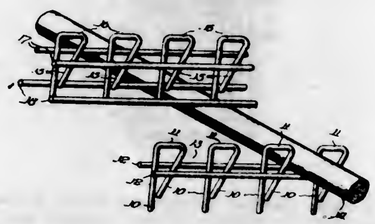
1. In a track laying tractor, the combination of a track frame comprising two longitudinally extended parallel connected side beams, each beam comprising two longitudinally extended angle bars and a guard plate secured to the inside faces of said angle bars, two spring seat blocks which are secured in transverse alinement to the outwardly extended flanges of the two lower angle bars, a leaf spring secured upon each of said spring seat blocks and extended forwardly and rearwardly therefrom, two transversely extended shafts which extend between and are fixed, the one to the front ends of the two springs and the one to the rear ends of the two springs, and track wheels rotatably mounted upon said shafts between the side beams of said track frame.

1,387,087. DUSTPROOF BEARING. ROLLIN H. WHITE and MATHEW B. MORGAN, Cleveland Heights, Ohio, assignors to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed June 23, 1919. Serial No. 306,120. 4 Claims. (Cl. 64—22.)



1. The combination with a shaft, a wheel rotatably mounted thereon, a collar on the shaft adjacent an end of the wheel, a flexible packing disk which is fixed near its periphery to the end of the wheel and which is in sliding contact with the end face of said collar, and spring means for maintaining the contact of said parts.

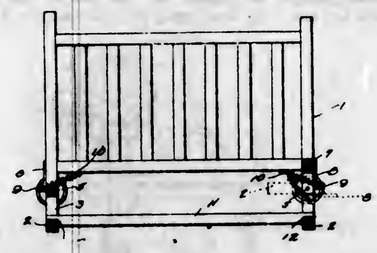
1,387,088. BEAM-SPACER. WILLIAM E. WHITE, Chicago, Ill. Filed Apr. 7, 1920. Serial No. 371,804. 6 Claims. (Cl. 72—122.)



1. A beam spacer comprising in combination a plurality of spacing elements, each element consisting of a length of wire bent to provide a horizontal member and two oppositely diagonally disposed end members constituting legs, said spacing elements being arranged in spaced relation with their horizontal members in line with each other, and a horizontal side member at each side of said spacing elements, said side members being welded to adjacent legs of said spacing elements at a point intermediate the ends of the legs.

1,387,089. CHILD'S CRIB. REUBEN M. WILLIS and HERMAN R. WILLIS, Chanute, Kans. Filed Feb. 17, 1920. Serial No. 359,471. 3 Claims. (Cl. 5—57.)

2. A crib comprising in combination wheels mounted on the crib, rockers pivoted to the crib, and spring means having connection with said rockers above their pivotal connection with the crib when in an operative position



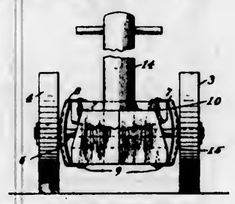
and below said connection when in an inoperative position, whereby said rockers may be retained above or below said wheels.

1,387,090. LICENSE-TAG-ATTACHING DEVICE. MAURICE E. WING, Lawrence Park, Pa. Filed May 20, 1920. Serial No. 382,845. 2 Claims. (Cl. 85—1.)



1. A license tag attaching device comprising a slotted bracket; a bolt having a head with one cross dimension greater than the other and one permitting its insertion through the slot and the other preventing its removal through the slot; a lock permitting the head to turn lengthwise of the slot for insertion through the slot and locking the bolt crosswise of the slot after the head is turned and the bolt clamped; and a nut on the opposite side of the bracket from the head, the bracket being unobstructed to permit the insertion and removal of the bolt.

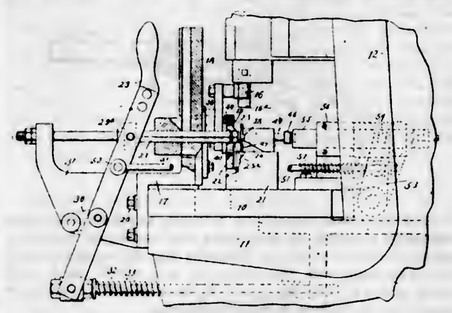
1,387,091. SELF-STEERING VEHICLE. HORACE M. WOOLLEY, Jr., and DONALD J. MCKEAN, Alameda, Calif.; said McKean assignor to said Woolley. Filed Sept. 7, 1920. Serial No. 408,651. 7 Claims. (Cl. 280—87.5.)



6. In a vehicle of the character described an axle, an elongated rocking member supported on the axle and having its longitudinal axis disposed parallel with the axle, a curved rocking face formed on the lower side of the rocking member to form a rocking surface between the rocking member and the axle, a vehicle body disposed below the axle, hangers connecting the body with the opposite ends of the rocking member, and means on said hangers for transmitting a turning movement to the axle on a horizontal plane when the rocker is tilted.

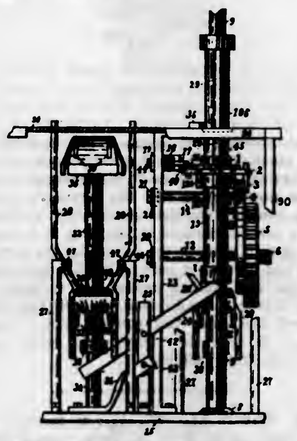
1,387,092. NUT-CASTELLATING MACHINE. LOUIS BARBER and EMMETT L. FILSON, Cleveland, Ohio, assignors to The National Screw and Tack Company, Cleveland, Ohio, a Corporation of Ohio. Filed July 12, 1920. Serial No. 395,664. 12 Claims. (Cl. 10—7.)

1. In a nut castellating machine, a punch, a rotary holder for a nut blank, an endwise movable blank carrier having a die at its end for moving the blank into the rotary holder, said die adapted to enter the bore of the



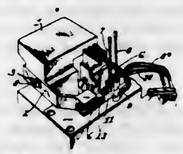
blank and having a slot to accommodate the end of the punch.

1,387,093. BASKET-MAKING MACHINE. WILLARD F. BARNES, Berkeley, Calif., assignor to S. V. Barnes, Berkeley, Calif. Filed May 20, 1920. Serial No. 382,920. 14 Claims. (Cl. 93—41.)



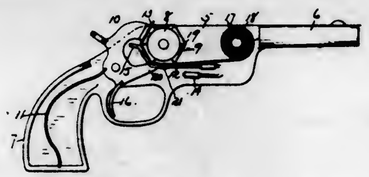
1. In a basket-making machine of the character described, a stationary mold-block, a cross-arm carrier carrying formers of such shape as to make the desired form of basket or other receptacle on each arm, mechanism by which said cross-arm is raised and lowered, and also given a revolving movement so that the reciprocating formers will co-act with the mold-block.

1,387,094. INTERCHANGEABLE NEEDLE-GUIDE. WILLIAM L. BARRON, Newark, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 25, 1918. Serial No. 255,692. 15 Claims. (Cl. 112—227.)



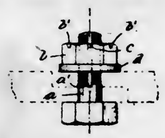
1. In a sewing machine, a reciprocating needle, and a guide therefor adjustable in a single movement transversely of both the needle-path and the line of seam-formation.

1,387,095. TOY PISTOL. CHARLES A. BAILEY, Cromwell, Conn. Filed May 28, 1919. Serial No. 300,419. 3 Claims. (Cl. 42—57.)



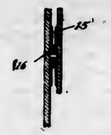
1. A toy pistol comprising a frame, a cap feeding wheel rotatably mounted on the frame and having an angularly shaped periphery and a guide having an angular shape to correspond with the angles of said wheel, said guide being pressed into contact with said wheel to coöperate therewith in feeding a tape therealong.

1,387,096. NUT-LOCK. ARTHUR J. BENSON, Malden, Mass. Filed Sept. 13, 1920. Serial No. 409,824. 1 Claim. (Cl. 151—4.)



A screw-threaded bolt having a longitudinal slot in its threaded portion, a nut and a washer on the bolt, said washer having an aperture therethrough between its outer and inner peripheries and having a recess in its inner side leading from said aperture to the washer opening, and a tongue disposed in said slot and longitudinally movable therein beneath the bottom of the screw threads, the inner end-portion of said tongue being extended transversely into said washer recess and through said aperture and having a headed end, to lock the same to the washer and the outer end portion of the tongue being adapted to be bent into engagement with the nut, to hold the same from turning.

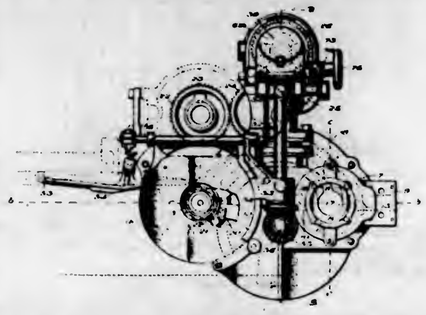
1,387,097. TOY DOLL. WILLIAM E. BENTON, San Francisco, Calif. Filed May 18, 1920. Serial No. 382,297. 5 Claims. (Cl. 46—40.)



1. A joint for paper dolls and the like comprising a pair of disks riveted together in a manner to rotate relative to each other, the outer faces of said disks being treated with an adhesive material whereby the disk may be secured between parts to be pivoted.

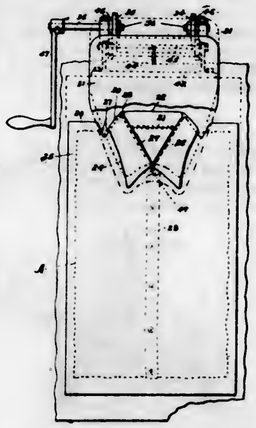
1,387,098. CAN-END-FEEDING DEVICE. CHARLES E. BRAIT and GEORGE FLUCK, Syracuse, N. Y., assignors to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed June 28, 1919. Serial No. 307,414. 5 Claims. (Cl. 113—1.)

1. The combination of a supporting bracket having a can end seat at the seaming station, a stack-holder, a can end race formed in said bracket and leading from the stack-holder to the can end seat, a continuously rotating member adapted to engage the can end at the stack-holder and move the same along said can end race to said



can end seat at the seaming station, and rotating marking dies for impressing an identifying mark in the can end as it passes along said can end race and without stopping the movement of the can end.

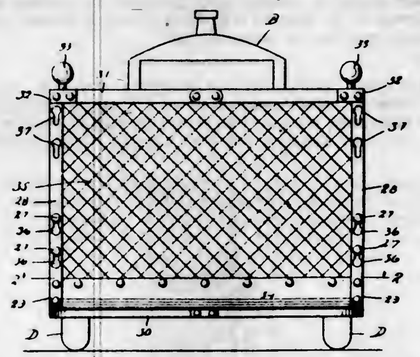
1,387,099. WORK-SHIRT PRESS. BLUFORD W. BROCKETT, Cleveland, Ohio, assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 9, 1916. Serial No. 119,200. 12 Claims. (Cl. 68—9.)



2. A garment pressing machine, comprising upper and lower relatively movable pressing members, a pressing plate or form upon which the garment is arranged, said plate or form having a recess in one end with substantially straight diverging edges for receiving and holding the collar during the pressing operation, and a holding plate lying above said pressing plate or form holding the garment collar down upon the same, and means for yieldingly pressing said holding plate down upon the garment when said pressing members are out of coöperative pressing relation.

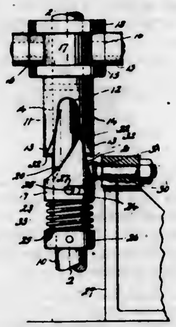
1,387,100. SAFETY FENDER FOR AUTOMOBILES. THOMAS F. BUCK, New Castle, Pa. Filed May 17, 1921. Serial No. 470,375. 5 Claims. (Cl. 293—54.)

1. A safety fender attachment for automobiles comprising a pair of forwardly extending arms secured to the frame bars of an automobile, and a fender proper detachably connected with the forward extremities of said



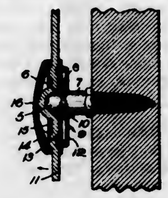
arms, the fender proper being capable of being mounted in inverted position to space it farther from the ground for avoiding obstructions.

1,387,101. MECHANICAL MOVEMENT. ZENAS P. CANDEE, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Mar. 8, 1920. Serial No. 364,292. 25 Claims. (Cl. 74—1.)



4. The combination with a reciprocating shaft; of means for imparting a rotary movement thereto during its reciprocation, said means comprising a cam fixed to said shaft, and a second cam movably mounted thereon, said cams being so arranged that parts of one cam project into the open space between portions of the other cam.

1,387,102. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,768. 2 Claims. (Cl. 24—218.)



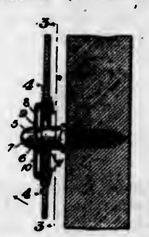
2. A separable fastener comprising, in combination, a stud having a head and a neck, a shank portion, a sloping shoulder between said neck and said shank portion, a socket including a fixed jaw and a spring jaw engaging opposite sides of the neck of said stud, said stud and socket when engaged separable only when an outward pull is exerted on that side of the socket where the spring jaw is located, thereby to tip the stud and socket one relative to the other by a rocking movement about said fixed jaw as an axis, said fixed jaw adapted to ride up said sloping shoulder and to wedge the stud and socket into engagement one with the other when an inwardly directed push is exerted on that side of the socket where the fixed jaw is located.

1,387,103. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,769. 3 Claims. (Cl. 24—218.)



1. A separable fastener comprising, in combination, a stud having a head and a neck, a socket providing a stud-receiving aperture therein having at one side thereof a fixed jaw for engagement with the neck of the stud, and on the other side thereof resilient means for pressing the neck of the stud into engagement with said fixed jaw, the shoulder between the neck of the stud and the head thereof being inclined, and the neck-engaging face of the fixed jaw being rounded in longitudinal section.

1,387,104. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,770. 4 Claims. (Cl. 24—218.)



1. A stud and socket fastener comprising, in combination, a stud having a head providing a sloping shoulder and a socket providing opposed jaws, one resilient, the other fixed, positively opposing rectilinear withdrawal of said stud from said socket, while permitting withdrawal thereof when said stud and socket are tipped one relative to the other, said fixed jaw being located above the stud and inclined inwardly and downwardly from the face of the socket.

1,387,105. SEPARABLE FASTENER. LARS ANDREW LARSSEN, Boston, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,771. 10 Claims. (Cl. 24—214.)

1. A stud for separable fasteners including a head, a neck, a shank portion and a base portion, the combined length of said head, neck and shank positions being substantially greater than the diameter of any of them, said

head portion, said neck portion, said shank portion and a part of said base portion being slotted to provide a re-



silient stud having the resiliency initiating in the base portion.

1,387,106. SEPARABLE FASTENER. LARS ANDREW LARSSEN, Boston, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,772. 3 Claims. (Cl. 24—214.)



1. A separable fastener comprising, in combination, a stud having a head and a neck, and a springless socket, said socket providing on one side of the fabric means for engaging the neck of said stud, and on the other side of the fabric means for limiting the direction of possible relative tipping movement of said stud and socket.

1,387,107. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,773. 6 Claims. (Cl. 24—214.)



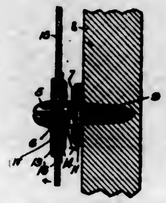
1. A stud comprising, in combination, a head, a primary neck and a secondary recess, said stud being resilient, and providing a greater degree of resiliency adjacent the primary neck than adjacent said recess.

1,387,108. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,774. 8 Claims. (Cl. 24—214.)



1. An element for separable fasteners comprising, in combination, a pronged member for attachment to one side of a flexible carrier and a single part for attachment to the opposite side of the flexible carrier, said integral part providing integral anvil portions for turning the prongs of the pronged member and integral holding portions engaging the turned prongs.

1,387,109. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,775. 7 Claims. (Cl. 24—214.)



5. A split stud for separable fasteners having a base flange slotted to provide resiliency and a securing part having a head secured to said stud rearwardly of said slotted base flange and spaced therefrom adjacent the resilient portion thereof.

1,387,110. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,785. 4 Claims. (Cl. 24—218.)



3. A separable fastener comprising, in combination, a stud having a head and a neck, a socket having a plate providing an aperture therethrough, a spring providing a plurality of stud-engaging points intersecting said aperture and spring-supporting elements projecting from said casing adjacent said aperture.

1,387,111. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,776. 4 Claims. (Cl. 24—218.)



1. A fastener comprising, in combination, a stud having a head and a neck, and a socket providing at one side thereof a stud-receiving aperture providing a relatively shallow notch at at least one side thereof, said socket having a spring portion intersecting at least one side of said aperture at an angle relative to a line passing through the center of the aperture and the center of the notch.

1,387,112. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,777. 5 Claims. (Cl. 24—218.)

1. A separable fastener comprising, in combination, a stud and socket including a plate having flanged marginal portions, a spring retained in said socket beneath said

flanged marginal portions, an aperture in said plate providing a narrowed portion at one side of said aperture,



said stud and socket being proportioned to permit engagement of said stud with said spring from either side of said socket.

1,387,113. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,778. 3 Claims. (Cl. 24—218.)



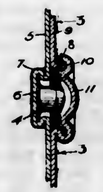
1. A separable fastener comprising, in combination, a stud having a head and a neck, and a socket comprising a casing having an aperture therethrough and providing wedge surfaces for engagement with the neck of the stud under lateral strain, and a spring part pressing said stud toward said wedging portions.

1,387,114. FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,779. 5 Claims. (Cl. 24—218.)



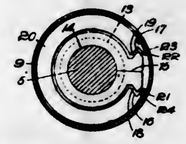
1. A socket for stud and socket fasteners comprising, in combination, a casing having a continuous lip flanged inwardly to retain a spring, said lip being extended at one side to overlie the ends of the spring.

1,387,115. SEPARABLE FASTENER. ANDREW G. ANDERSON, Wollaston, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,786. 7 Claims. (Cl. 24—217.)



1. A separable fastener comprising, in combination, a stud having a head and a neck, and a socket providing a spring having an opening at one side thereof and a spring casing, said spring and spring casing providing co-operating cam means tending to hold the spring closed about the neck of the stud entered therethrough when lateral strain is exerted between stud and socket.

1,387,116. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,787. 5 Claims. (Cl. 24—217.)



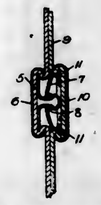
1. A separable fastener comprising, in combination, a stud having a head and a neck, and a socket containing a spring, said spring providing a stud-receiving aperture and an opening at one side thereof, said spring having oppositely disposed cam surfaces on each side of the opening, said cam surfaces all located on projections from the spring and adapted to coöperate with corresponding cam surfaces independent of the spring.

1,387,117. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,788. 2 Claims. (Cl. 24—208.)



2. A socket for separable fasteners having a dished casing providing a flange, and an expansible part secured to said casing by said flange; and socket-securing means including a flanged-over rim beneath which said expansible part may press the fabric to secure the socket to the fabric and hold said parts in assembled relationship.

1,387,118. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,789. 1 Claim. (Cl. 24—208.)



A socket for separable fasteners comprising, in combination, a casing having a relatively large face portion and a stud receiving aperture therein, a rim for said face portion provided with expansible lip means, a casing-securing part having a flanged-over rim, said lip means expanded to interlock with the flanged-over rim of the casing-securing part.

1,387,119. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,790. 4 Claims. (Cl. 24—208.)

4. A socket for separable fasteners comprising, in combination, a spring-containing casing, having a flanged-over

rim, a socket-securing part having prongs projecting therefrom for engagement beneath the rim of said casing, said



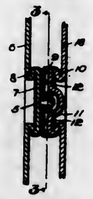
socket-securing part being dished to throw the socket-carrying fabric toward the face of the socket.

1,387,120. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,791. 2 Claims. (Cl. 24—218.)



1. A socket for separable fasteners comprising, in combination, a casing having a notched stud-receiving aperture, a spring in said casing, a metallic securing device rotatably engaging said casing and means for fastening said securing device to a carrying part while leaving said casing free to rotate relative thereto.

1,387,121. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920, Serial No. 351,792. Renewed Apr. 23, 1921. Serial No. 463,907. 2 Claims. (Cl. 24—218.)



1. A socket for separable fasteners comprising, in combination, a dished spring-carrying plate having a tubular projection providing a stud-receiving recess, and securing means for fastening said spring-carrying plate to a fabric, said securing means proportioned to enter said dished spring-carrying plate and wedge the fabric therein, and having a hole therein through which said tubular projection and the adjacent fabric may pass.

1,387,122. SEPARABLE FASTENER AND MEANS FOR SECURING ITS STUD TO CARRYING FABRICS. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,793. 4 Claims. (Cl. 24—208.)

1. A separable fastener comprising, in combination, a socket, a stud for engagement with said socket, said stud having a base, and securing means for securing the stud to its carrying fabric, said securing means having marginal flange means extending in the direction of the base



of the stud and effective to bring the stud-carrying fabric to a plane on the stud side of the stud base while forming a pocket about the stud of sufficient area to receive the socket.

1,387,123. SEPARABLE FASTENER. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,794. 6 Claims. (Cl. 24—218.)



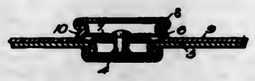
1. A separable fastener comprising, in combination, a stud having a head and a neck; a socket having a spring-containing casing containing a spring and having plates on each side of the spring, each of said plates being apertured to receive the head of the stud, the sides of each aperture being notched and said stud enterable into said socket from either side.

1,387,124. SEPARABLE FASTENER AND MEANS FOR SECURING ITS SOCKET TO CARRYING FABRICS. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,795. 3 Claims. (Cl. 24—208.)



1. A socket for separable fastener comprising a casing having projections thereon, distortable inwardly, and casing securing means on the opposite side of the socket-carrying fabric over which said projections may be bent with the fabric interposed between the casing securing means and the projections on the casing.

1,387,125. SEPARABLE FASTENER AND MEANS FOR SECURING ITS SOCKET TO CARRYING FABRICS. FRED S. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 16, 1920. Serial No. 351,796. 4 Claims. (Cl. 24—216.)



3. A metallic-secured socket for separable fasteners comprising a casing and a securing ring, said casing of one

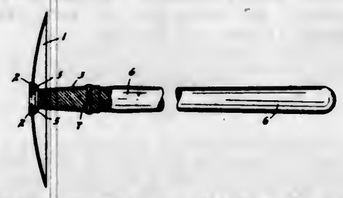
piece providing a stud-receiving aperture and a peripheral upstanding rim, parts of said rim overlying and underlying said ring with the socket-carrying fabric interposed and with the fabric exposed above said casing.

1,387,126. SEPARABLE FASTENER. MOSES F. CARR, Newton, Mass., assignor to Carr Fastener Company, Cambridge, Mass., a Corporation of Maine. Filed Jan. 24, 1920. Serial No. 353,758. 6 Claims. (Cl. 24—218.)



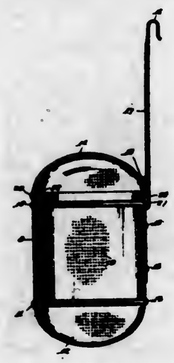
1. A socket for separable fasteners comprising, in combination, a spring-containing element having an expansible part or parts and coöperating securing means for securing the spring-containing part to a carrying fabric, said securing means located on the opposite side of the fabric from said spring-containing element and providing spreading means effective through the fabric for expanding said expansible part or parts, said securing means also providing means coöperating with said expansible part or parts for gripping the fabric.

1,387,127. CULTIVATING-HOE. RALPH D. CHURCH, Dallas, Tex. Filed Dec. 31, 1920. Serial No. 434,267. 4 Claims. (Cl. 55—5.)



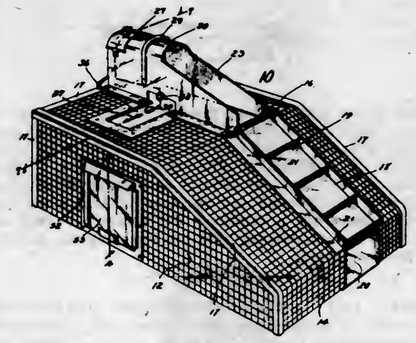
1. A garden implement comprising a circular disk having a continuous cutting edge formed thereon and an operating handle secured at the center thereof.

1,387,128. COFFEE-PERCOLATOR. HENRY COWAN, New York, N. Y. Filed Oct. 25, 1920. Serial No. 419,181. 4 Claims. (Cl. 53—3.)



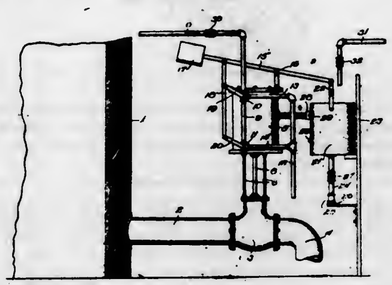
1. An article as characterized comprising an open-ended container; a suspension member rigidly attached thereto: a removable cover for said container, said cover having an outwardly projecting reinforcing ridge adjacent the open edge thereof; a locking member permanently formed on said suspension member for engaging said ridge when said cover is installed in service.

1,387,129. TRAP. WILLIAM I. CROYLE, Heilwood, Pa. Filed Feb. 14, 1921. Serial No. 444,857. 3 Claims. (Cl. 43—70.)



1. A trap including a closure member having a portion of the top cut away adjacent to one end of the top to afford an entrance, a balanced tilting platform pivotally supported in said entrance, a latch carried by the tilting platform adjacent to the end of the closure member, a spring mounted on the end of the closure member having a catch on it supper end for coöperating with said latch and a trigger coöperating with said catch for releasing it from the latch for allowing the platform to tilt downwardly.

1,387,130. AUTOMATIC VALVE CONTROL. THOMAS CURRAN, Chillicothe, Ill. Filed Nov. 13, 1919. Serial No. 337,881. 4 Claims. (Cl. 137—68.)
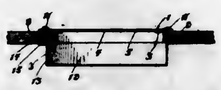


1. The combination of a discharge pipe, a control valve therefor, a cylinder, a piston in said cylinder connected with the control valve, a three-way valve at each end of the cylinder, an inlet and outlet pipe connected with said three-way valves, a weighted lever connected with said three-way valves, a movable bucket connected with said lever, means for filling said bucket with liquid, and means for regulating the flow of the liquid into the bucket.

1,387,131. REGISTER ADAPTED TO BE APPLIED TO THE FLOORS OR FOOTBOARDS OF AUTOMOBILES. CLARK A. DEAN, St. Louis, Mo., assignor, by mesne assignments, to Stark-Inland Machine Works, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 13, 1919. Serial No. 270,808. 6 Claims. (Cl. 98—49.)

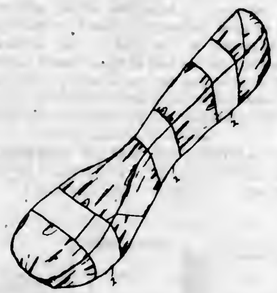
6. A device of the character described, comprising a relatively flat top plate extending across an opening in a

floor board and having a plurality of integral cross members extending from the marginal portions of the plate, said plate having rebent folds reinforcing marginal portions thereof and for a portion of their length lying in contact with the under sides of the plate and engaging the surface of the floor board, said rebent folds from a point near their outer ends being spaced from the bottom of the marginal side parts of the plate to provide receiving and guiding pockets, a movable slide beneath said plate, said



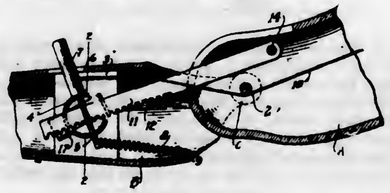
slide having side portions disposed within the space between the marginal folds of the plate, and adapted to be moved into and out of registration with the cross pieces thereof, in combination with means disposed at right angles to the plate and directly underlying the same for deflecting air through the openings in said plate, said means comprising a relatively flat deflector having side portions and outstanding ears for attaching the deflector to the floor board.

1,387,132. METHOD OF PACKING SILVERWARE. CONSTANT K. DECHERD, Middletown, Conn., assignor to International Silver Co., Meriden, Conn., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,563. 2 Claims. (Cl. 206—46.)



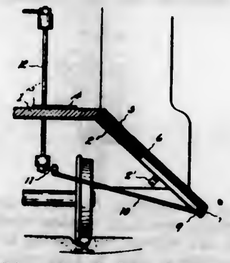
1. The method of packing silver-ware consisting in wrapping the article in paper containing a sulfid neutralizer and coating the package with a water-proof substance.

1,387,133. ARTIFICIAL LIMB. DAVID W. DORRANCE, San Jose, Calif. Filed Oct. 19, 1920. Serial No. 417,991. 6 Claims. (Cl. 3—12.)



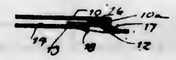
1. The combination with the upper and lower arm section of an artificial arm and an elbow joint connecting the same, of a rack bar pivotally attached to the upper arm section and extending downwardly into the lower arm section, a tubular cylindrical member extending crosswise of the lower arm and having a limited turning movement therein, said cylinder having a pair of opposed slots formed therein through which the rack bar extends, means normally holding the cylinder in a position where the bottom edge of one of the slots will engage the teeth of the rack bar, and other means for turning the cylinder to disengage the teeth.

1,387,134. APPROACHWAY FOR PLATFORMS OF CARS. LOUIS DUFEK, Cashalis, Wash. Filed Apr. 20, 1920. Serial No. 375,864. 2 Claims. (Cl. 105—436.)



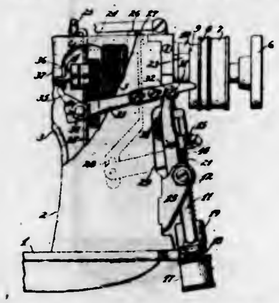
1. An extensible approach for cars comprising an inclinedly disposed base, a superstructural body slidably mounted upon said base, a plurality of linked together steps and risers pivotally attached to the upper end of said base and to said superstructural body, means for actuating said superstructural body whereby said entrance approach can be caused to assume either an inclined plane surface when extended or a step formation when contracted and a locking device for the actuating means.

1,387,135. SNAP-FASTENER. WALTER H. FARNHAM, Bucksport, Me. Filed Mar. 30, 1921. Serial No. 456,954. 5 Claims. (Cl. 24—226.)



5. In combination with an eye plate having a slot and a bridge bar straddling the slot, the plate being downwardly inclined at one side of the slot to form a guiding surface, and a hook plate embodying a hook adapted to engage beneath the bridge bar, the initial engagement of the hook with the bridge bar being made at the opposite side of the bridge bar from the downwardly inclined portion of the plate, said hook and eye plate each embodying a hump, said humps frictionally engaging during the insertion of said hook beneath said bridge bar.

1,387,136. POWER-TRANSMITTER. JOHN S. FINCH, Bridgeport, Conn., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed July 25, 1917. Serial No. 182,654. 5 Claims. (Cl. 192—116.)



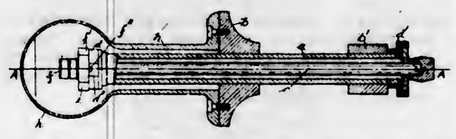
1. In a stop-mechanism, the combination with a driving shaft and means for rotating the same, of coöperating elements operating first in one direction for frictionally retarding the rotation of said shaft with a braking effect varying proportionally with the speed of rotation of the shaft and operating subsequently in a direction substantially transversely to said first mentioned direction to arrest the rotation of the shaft.

1,387,137. ALARM FOR AUTOMOBILE-JACKS. LOUIS M. FISHER, Clarksdale, Mo. Filed Aug. 26, 1920. Serial No. 406,070. 2 Claims. (Cl. 254—1.)



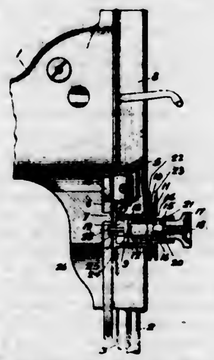
1. In combination with an automobile jack employing a swinging member, of a gong arranged adjacent to said member, a clapper pivoted adjacent to said gong, a spring normally holding said clapper retracted from said gong, an end of said spring slidably engaged with said clapper, and a contact member on said swinging member adapted to engage said spring end when moved in one direction to first retract the spring and the clapper and then to release the same to the action of said spring.

1,387,138. SEWING-MACHINE. JAMES ALEXANDER FLANAGAN, Toronto, Ontario, Canada. Filed Feb. 4, 1919, Serial No. 274,902. Renewed June 1, 1921. Serial No. 474,297. 8 Claims. (Cl. 112—215.)



1. A sewing machine comprising co-axial feed and looper shafts, means for oscillating the feed shaft, means for rotating the looper shaft, a cam fixed on the looper shaft, and a vertically and laterally reciprocating feed dog receiving positive upward and downward movement from the cam and lateral reciprocation from the feed shaft.

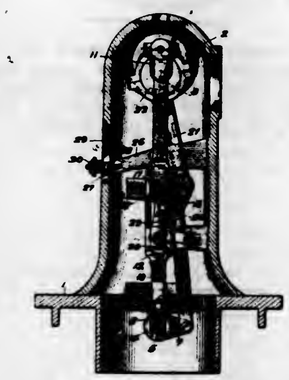
1,387,139. TENSION FOR SEWING-MACHINES. JAMES ALEXANDER FLANAGAN, Toronto, Ontario, Canada. Filed Apr. 30, 1919, Serial No. 293,664. Renewed June 1, 1921. Serial No. 474,298. 9 Claims. (Cl. 112—238.)



1. A tension device, having a pair of oppositely arranged disks, one of which is stationary and the other movable, telescoping tubular extension portions on said disks and made as parts thereof, a tension spring concealed within said tubular extension portions, and means to vary the tension of the spring.

5. A tension device, having a pair of oppositely arranged disks, one of which is stationary and the other movable, telescoping tubular extensions on said disks, a tension spring concealed within said tubular extensions, a post extending through the disks and their extensions, an adjusting nut applied to one end of the post and a movable pin applied to the opposite end of the post with the tension spring interposed between them, and a presser-foot lifter having a face-cam to act upon the pin to release the tension upon the needle thread.

1,387,140. STITCH CONTROL FOR SEWING-MACHINES. JAMES ALEXANDER FLANAGAN, Toronto, Ontario, Canada. Filed May 5, 1919, Serial No. 294,675. Renewed June 1, 1921. Serial No. 474,299. 1 Claim. (Cl. 112—210.)

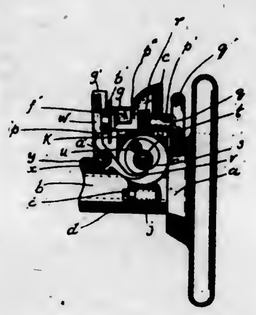


In a stitch control mechanism for sewing machines, a driving mechanism, a driven feed shaft, and a compound lever mechanism interposed between and connected with these shafts, comprising an arcuate rocking link provided with an undercut groove, a slotted link having one end connected with the feed shaft, and having at its other end a roller movable lengthwise of said groove for varying the length and direction of the feed, a link pivotally connected at one end with the arcuate link, and at the other end with the driving mechanism for imparting the rocking motion to the feed shaft, a bell crank having one arm provided with a pin movable in the slot of the first mentioned link, and having its other arm forked, and a slide engaging the forked arm of the bell crank lever and moving it to adjust the roller in the arcuate link.

1,387,141. BOBBIN-WINDING MECHANISM FOR SEWING-MACHINES. JAMES ALEXANDER FLANAGAN, Toronto, Ontario, Canada. Filed Feb. 4, 1920, Serial No. 356,202. Renewed June 1, 1921. Serial No. 474,300. 2 Claims. (Cl. 242—22.)

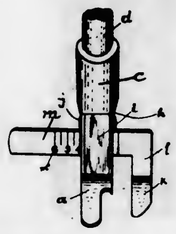
2. A bobbin winding mechanism for sewing machines comprising a supporting member, a spring pressed rocker arm pivoted to the supporting member having bobbin spindle bearings, one of which has a flattened detent engaging surface, a bobbin spindle journaled in the bearings having a friction wheel adapted to engage the fly wheel of the machine, a pivoted detent engaging the flattened surface of the bearing and holding the friction wheel in con-

tact with the fly wheel, and a cast off arm for the detent adapted to be engaged by the thread wound on the bobbin



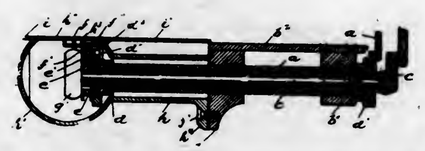
for releasing the detent from the flattened surface of the bearing as the winding proceeds.

1,387,142. COMBINED PRESSER-FOOT AND WORK-GUIDE FOR SEWING-MACHINES. JAMES ALEXANDER FLANAGAN, Toronto, Ontario, Canada. Filed Feb. 4, 1920. Serial No. 356,203. Renewed June 1, 1921. Serial No. 474,301. 3 Claims. (Cl. 112—151.)



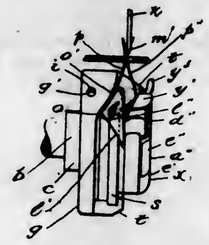
1. A work guide for a sewing machine comprising a guide foot having a horizontal arm provided with a lengthwise rib, in combination with a presser foot having a vertical member formed with a transverse recess to receive the horizontal arm of the work guide and of a height sufficient for its vertical adjustment, horizontal grooves being formed in the wall of said recess to receive the rib and maintain the vertical adjustment of the work guide.

1,387,143. SEWING-MACHINE. JAMES ALEXANDER FLANAGAN, Toronto, Ontario, Canada. Original application filed Feb. 4, 1919, Serial No. 274,902. Divided and this application filed Feb. 4, 1920, Serial No. 356,204. Renewed June 1, 1921. Serial No. 474,302. 5 Claims. (Cl. 112—260.)



1. In a sewing machine, the combination of the feed and looper mechanisms, and a housing therefor comprising a spheroidal part and a horizontally extending tubular part constricted with regard to the spheroidal part and carrying the latter at the end thereof.

1,387,144. STITCH-FORMING MECHANISM FOR SEWING-MACHINES. JAMES ALEXANDER FLANAGAN, Toronto, Ontario, Canada. Filed Feb. 7, 1920, Serial No. 357,017. Renewed June 1, 1921. Serial No. 474,303. 4 Claims. (Cl. 112—228.)



1. In a sewing machine, a stitch forming mechanism comprising a stationary thread case having a peripheral loop holder, and a rotary loop taker formed with a thread case cavity in which the thread case is journaled, and with a segmental frusto-conical loop deflector, partly encircling the thread case, having at its forward end a single beak moving in rear of the needle path, for entering the loop, drawing it through the needle eye, and passing the needle side of the loop across the back of the thread case, the beak having a thread race for directing the work side of the loop on the loop deflector to be passed by it across the front face of the thread case during the revolution of the loop taker.

1,387,145. FEEDING MECHANISM FOR SEWING-MACHINES. JAMES ALEXANDER FLANAGAN, Toronto, Ontario, Canada. Filed June 17, 1919, Serial No. 304,702. Renewed June 9, 1921. Serial No. 476,345. 5 Claims. (Cl. 112—215.)



1. A feeding mechanism for sewing machines comprising a reciprocating feed slide, having an open center, a hollow feed shaft, a looper shaft extending through the feed shaft, a cam on the looper shaft within the open center of the slide, causing its reciprocation, a feed dog having a lateral sliding connection with the slide for reciprocation therewith, and means rocked by the feed shaft, causing the reciprocation of the feed dog laterally with respect to the slide during its reciprocation by the cam.

1,387,146. UMBRELLA. PHILIP C. FOLWELL, Vancouver, British Columbia, Canada. Filed July 24, 1919. Serial No. 312,880. 3 Claims. (Cl. 135—30.)

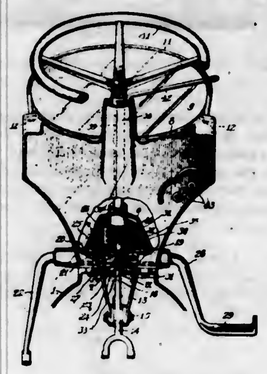
3. A means for securing the upper end of the ribs of the umbrella to the crown and the lower ends of the stretchers to the runner, said means comprising a central stick having socketed joines adjacent the crown and runner in the male member of each of which joints is a circumferential groove, a crown secured to the stick adjacent one socketed joint, a runner endwise movable on the stick, the adjacent edges of which crown and runner are outwardly and inwardly turned to form a circumferential groove in each and radially slotted for the reception of the rib and stretcher ends, ribs and stretchers the ends of which are T shaped and adapted to fit the slotted

groove of the crown and runner respectively, means for securing the socketed joints, and means for releasing such



securing means that the groove of the male member of each joint may be brought adjacent the groove of the crown and runner respectively.

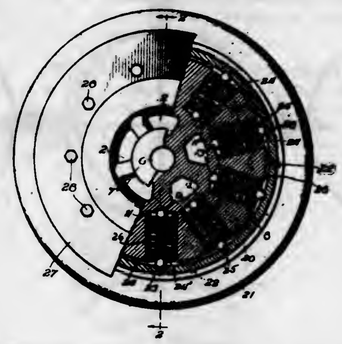
1,387,147. DASH-ASSEMBLY AND CONTROLLING DEVICE. HENRY FORD, Dearborn, Mich. Filed July 17, 1918. Serial No. 245,427. 19 Claims. (Cl. 180—90.)



1. A dash assembly for tractors comprising a housing adapted for mounting on a transmission casing, a steering arm journaled therein and extending at one side of the transmission casing, a clutch pedal journaled in said housing and extending at the opposite side of said transmission casing, a dash carried by said housing, and steering means on said dash for said steering arm.

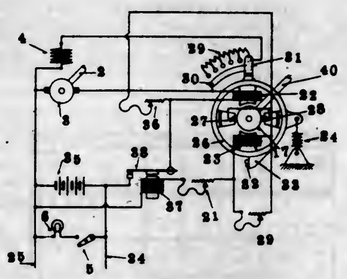
1,387,148. VEHICLE-WHEEL. ALBERT B. FUHR, Macomb, Ill. Filed Apr. 10, 1920. Serial No. 372,747. 2 Claims. (Cl. 152—29.)

1. A vehicle wheel comprising a hub, a plurality of radially extending spokes, a web formed integrally with said spokes and arranged concentrically with respect to said hub, said web having a plurality of radially extending cylindrical chambers formed therein and positioned at spaced distances apart around its periphery, having also a radially extending annular recess in one side adjacent its outer edge, and having an integral radially extending flange positioned at its opposite outer edge, said flange having a groove formed therein adjacent the periphery of the web, a closed resilient felly arranged concentrically with respect to said web, said felly having a lateral lug adapted to loosely work in said groove, resiliently yield-



ing means disposed in the chambers formed in said web and arranged to exert an outward thrust against the inner surface of said resilient felly, a resilient rim rigidly secured to said resilient felly, a tire mounted on said rim, and a removable annular flange arranged to have its inner portion secured within said first named annular recess in said web.

1,387,149. VOLTAGE-REGULATING APPARATUS. VALERE A. FYNN, St. Louis, Mo., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed June 26, 1918. Serial No. 241,994. 4 Claims. (Cl. 171—229.)

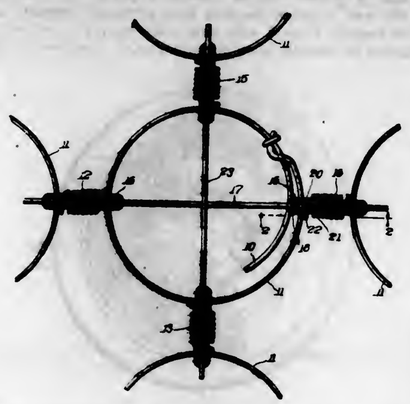


1. In apparatus of the class described, the combination of a main dynamo-electric machine, means for regulating the voltage thereof, and an auxiliary dynamo electric machine having both members movable, one of said members being provided with a commuted winding closed along an axis displaced from the axis of magnetization of the other member and one of said members being connected to actuate the voltage regulating means, and means for supplying to said auxiliary machine a voltage proportional to that produced by the main machine.

1,387,150. BED-SPRING. CHARLES H. GAIL, Cincinnati, Ohio, assignor to The Shott Manufacturing Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Apr. 22, 1921. Serial No. 463,633. 4 Claims. (Cl. 5—29.)

1. In a bed-spring, the combination of an upright spiral-spring, a horizontal helical-spring having an end loop overlying the top coil of said spiral-spring, and a wire having

a portion bent down through said loop inside of said top coil, then passing beneath the wire forming said top coil,

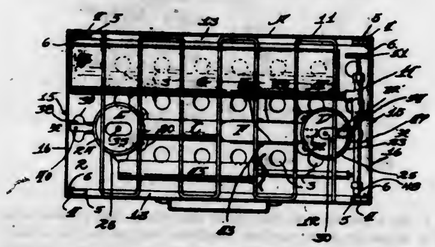


then extending upwardly through said loop, then over the top of one side of said loop, and then down over the side of the loop.

1,387,151. METHOD OF TREATING PHOSPHATE ROCK. WALTER GLAESER, Brooklyn, N. Y., assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y., a Corporation of New York. Filed May 1, 1916. Serial No. 94,008. 2 Claims. (Cl. 71—7.)

1. A process of treating phosphate rock, the steps of which consist in grinding phosphate rock, heating the same with sodium carbonate and carbon, leaching out the water soluble phosphate product and treating the same with carbonic acid.

1,387,152. FOLDING CAMP-STOVE. HANS C. HANSON, Albert Lea, Minn., assignor to American Gas Machine Company, Albert Lea, Minn., a Corporation of Minnesota. Filed July 21, 1917. Serial No. 181,938. 9 Claims. (Cl. 126—38.)



1. A folding camp stove having in combination a substantially rectangular casing having a perforated bottom, a stove having a plurality of burners fixedly secured to said bottom, said burners being disposed wholly within said casing, legs at each corner of said casing adapted to be received therein, said bottom having holes through which the legs are adapted to be extended when the stove is set up for use, and means on said casing for holding said legs extended.

1,387,153. DETERGENT. SIDNEY A. HARTMANN, St. Louis, Mo. Filed June 30, 1919, Serial No. 307,603. Renewed June 24, 1921. Serial No. 480,192. 6 Claims. (Cl. 87—5.)

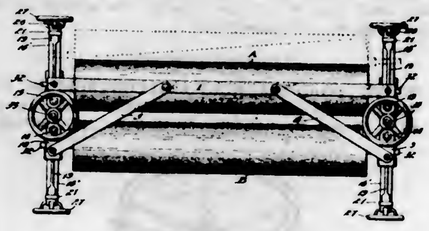
1. A detergent composed of castile soap, ammonia, and potassium nitrite.

1,387,154. COT-BED. ARTHUR O. HUBBARD, Minneapolis, Minn. Filed Nov. 14, 1917. Serial No. 201,935. 3 Claims. (Cl. 5—5.)



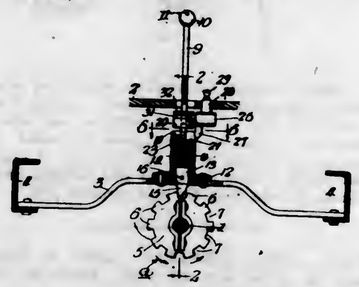
1. A folding bed comprising side rails, a flexible bottom secured thereto, legs for said side rails, flange plates secured to the upper ends of said legs and embracing the corners thereof and projecting upwardly on each side of said rails and having a pivotal connection therewith at one side of the longitudinal axis of said legs, said plates having bosses formed therein, said rails having heads for entering said bosses for temporarily holding said legs in place and the upper ends of said legs being seated against the underside of said rails when said legs are unfolded.

1,387,155. MACHINE FOR STRAIGHTENING THE WEFT-THREADS OF TEXTILE PIECE GOODS. EMIL HUBER, Chester, Pa. Filed Mar. 12, 1920. Serial No. 365,199. 16 Claims. (Cl. 26—8.)



16. In a fabric tentering and stretching machine, the combination with the side bars of the frame, struts fastened at one end to the side bars and guide bars attached to the strut, or rolls, means for effecting angular adjustment of the rolls in one plane and means for effecting angular adjustment of the rolls in other planes.

1,387,156. LOCK FOR MOTOR-VEHICLES. JOSEPH H. IOO and WILLIAM T. MCKAY, Chicago Heights, Ill. Filed Sept. 24, 1920. Serial No. 412,519. 12 Claims. (Cl. 70—90.)



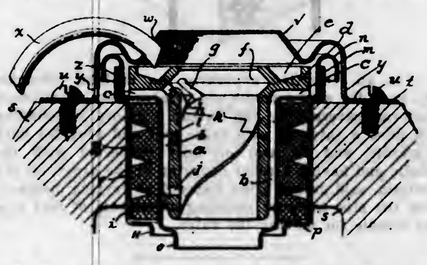
1. The combination with a shaft of a motor vehicle, of a locking mechanism, comprising two locking members, one fixed on said shaft to rotate therewith, and the other locking member being movably mounted on a fixed part of the motor vehicle and adapted to be moved into and out of locking engagement with the locking member on said shaft, said locking members having interlocking parts adapted when engaged in one position to lock the shaft against rotation in either direction, and when engaged in either one of two other positions to lock the shaft against rotation in one direction only.

1,387,157. WELDING AND BRAZING. ERNEST HENRY JONES, Canonbury, London, England. Filed Sept. 18, 1918. Serial No. 254,563. 3 Claims. (Cl. 29—182.)



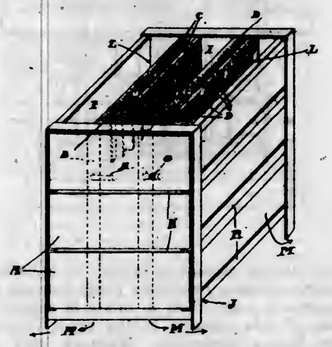
1. In combination, a hollow member formed of a basic metal, an alloy and a welding mixture secured within said member.

1,387,158. YIELDABLE BEARING FOR CENTRIFUGAL MACHINES. MEREDITH LEITCH, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 13, 1920. Serial No. 373,651. 16 Claims. (Cl. 64—48.)



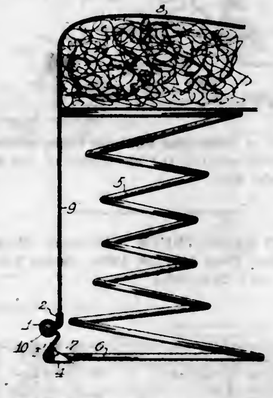
13. In a yieldable bearing for centrifugal machines, the combination of a bearing liner, means to feed oil to the upper end thereof, a shell around the liner, means affording passages for cooling air between the liner and shell and other passages, for flow of oil from the upper end outward, downward and inward to near the lower end of said liner, means to cause flow of oil within the bearing from the bottom to the top thereof, an oil shed from the top of the shell, a rubber cushion around the liner, and a cushion-surrounding member having its upper edge within and higher than the oil shed.

1,387,159. REFRIGERATOR. JOHN WALKER MCCRONE, Kansas City, Mo. Filed June 1, 1920. Serial No. 385,663. 2 Claims. (Cl. 62—130.)



1. In a refrigerator a salt and ice container, consisting of a plurality of rectangular shaped tanks, spaced apart from each other and connected at their ends, in such a manner as to make up a section having ice and salt tanks alternately with vertical air spaces between them; vertical wings or flanges extending from the sides of the ice and salt containers, sheets of fibrous or textile material disposed on the inner and outer surfaces of the salt and ice containers, whereby salt water is conveyed from the inside to the outside of the containers, and the vertical wings or flanges, for the purpose of preventing or removing frost and ice thereon.

1,387,160. UPHOLSTERY-SPRING CONSTRUCTION. WILLIAM D. MCCULLOUGH and THOMAS MAHONEY, Detroit, Mich., assignors to Premier Cushion Spring Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 27, 1918. Serial No. 268,530. 14 Claims. (Cl. 155—180.)



1. In an upholstery spring construction wherein the upholstery is supported by spiral springs and the upholstery covering includes a marginal portion positioned to curtain the spring formation, a rim strip having a cross-sectional configuration to receive and secure the marginal edge of the curtain and support a spring turn, the strip configuration locating the secured edge and spring turn on the same side of the strip with the marginal edge of the curtain leading into the rim strip in a direction substantially transverse to the plane of the exposed curtain portion.

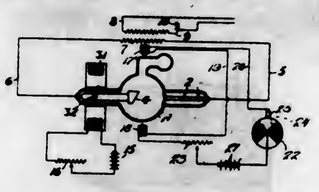
1,387,161. DISPLAY-FIXTURE. GERTRUDE M. MORRILL, San Francisco, Calif. Filed Mar. 1, 1920. Serial No. 362,466. 1 Claim. (Cl. 35—17.)



As an article of manufacture a hair dresser's advertising device consisting of a supporting member of thin

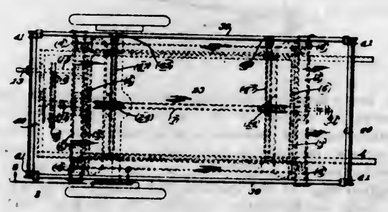
sheet-like material simulating, in elevation the shoulders and arms of a woman's form having the head turned to full profile view so as to effectually display, in full profile, an applied suit of hair to attractively advertise hair dressing or transformations.

1,387,162. X-RAY-TUBE-CONTROLLING MECHANISM. HARRY A. MULVANY and HARRY E. KENNEDY, Berkeley, Calif. Filed Jan. 24, 1918. Serial No. 213,475. 11 Claims. (Cl. 250—34.)



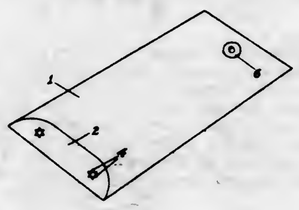
1. A method of rendering Röntgen tubes self-rectifying which consists in placing the electrodes of the tube in a field of magnetic flux.

1,387,163. DUMPING-TRUCK. RICHARD MUNZLINGER, St. Louis, Mo. Filed May 24, 1920. Serial No. 383,815. 21 Claims. (Cl. 214—85.)



1. In a machine of the character described, the combination of a motor truck having a movable box mounted thereon, means for conveying said box to the ground-line, means for withdrawing said box from under the load therein, and means for holding said load in a stationary position while said box is withdrawn.

1,387,164. METHOD OF SEALING ENVELOPS. AMERICO NASSANO, San Francisco, Calif. Filed Aug. 16, 1919. Serial No. 318,034. 4 Claims. (Cl. 93—1.)



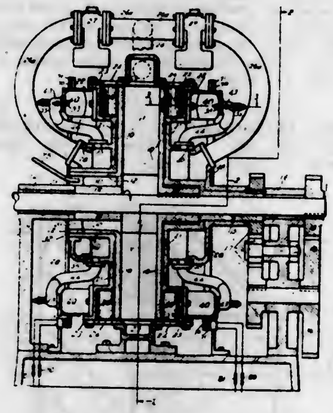
1. A method for securing superposed plies of flexible material together without any extraneous appliances, which consists of slitting the superposed plies to form a plurality of tongues about a common point, then bending collective tongues from said point, and folding them down over the contiguous face of one ply.

1,387,165. IRRIGATING APPARATUS. JAMES A. NORTON, Odebolt, Iowa. Filed June 4, 1920. Serial No. 386,575. 7 Claims. (Cl. 299—66.)



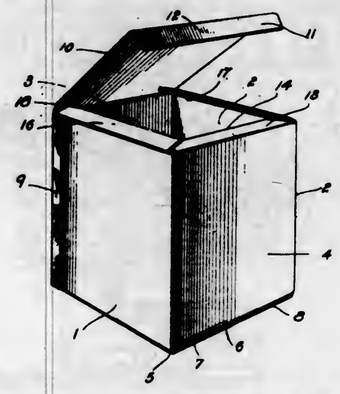
7. In an irrigating apparatus, an upright, revoluble pipe provided with a nozzle and a valve seat, a stationary platform traversed by and having a groove surrounding said pipe, a valve on said valve seat and provided with a spindle, and an arm pivotally connected with the spindle and having a roller engaging in the groove of the platform, said groove being disposed at varying distances from the pipe to cause swinging movements of said arm and spindle for moving the valve.

1,387,166. INTERNAL-COMBUSTION TURBINE. RICHARD PAZOS-MARTINEZ, Venice, Calif. Filed Aug. 5, 1918. Serial No. 248,433. 10 Claims. (Cl. 60—42.)



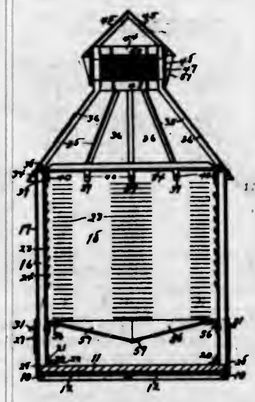
1. In an internal combustion turbine, the combination of two rotating elements, connection means between the two said elements to cause them to rotate in opposite directions, one of said elements having vanes thereon, and the other having combustion chambers with nozzles directing gases of combustion against the said vanes; and means to compress the combustible mixture into said combustion chambers embodying centrifugal means in the rotating element which carries the vanes.

1,387,167. CADDY-BOX. ARTHUR S. PECK, Lawrence, Kans., assignor to Lawrence Paper Manufacturing Company, Lawrence, Kans., a Partnership composed of M. G. Bowersock, Irving Hill, Paul A. Dinsmoor, Hortense B. Hill, Mary B. Dinsmoor, Jean B. Blackwelder, and Margery B. Dalton. Filed Mar. 22, 1920. Serial No. 367,671. 4 Claims. (Cl. 229—45.)



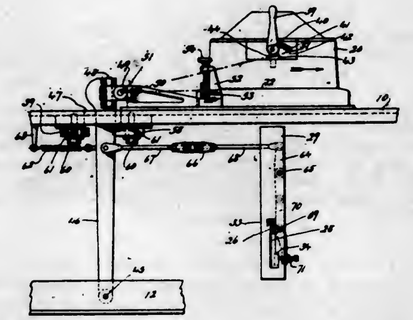
1. A caddy box consisting of a bottom, sides and ends with a swinging cover carried by one of the ends, inwardly projecting, yielding flaps on the upper edges of the sides, a flap on one end of the box and beneath the side flaps, and a depending flap on the free edge of the cover having a friction face for engagement with the face of the flap on the end of the box.

1,387,168. DRIER. WILLIAM E. PETTY, Providence township, Buena Vista county, Iowa. Filed May 12, 1919. Serial No. 296,314. 7 Claims. (Cl. 98—26.)



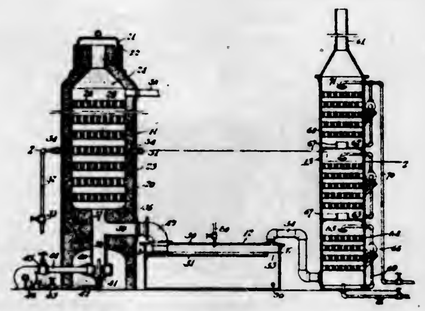
2. A drier provided with walls consisting of inner and outer shells and cross members between them forming a series of separated intervening flues, a central top ventilator, the interior being divided by a horizontal deflector to form an upper storage compartment and a lower heating compartment in communication at the periphery of the deflector, said deflector being inclined from its center upwardly to its periphery, a portion of the wall between two of said cross members and including less than the full height of the wall being hingedly mounted to form an entrance door, communication being provided between the top of the flue in said hingedly mounted portion and the flue in the remaining portion of the wall above the same, each flue, including the door portion, being provided in its outer shell near the bottom with screened air inlet openings and also being provided in its inner shell with horizontal slots affording communication with said storage compartment.

1,387,169. WIRE-DRAWING MACHINE. WILLIAM D. PIERSON, Waterbury, Conn., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn., a Corporation of Connecticut. Filed Dec. 1, 1919. Serial No. 341,686. 8 Claims. (Cl. 205—16.)



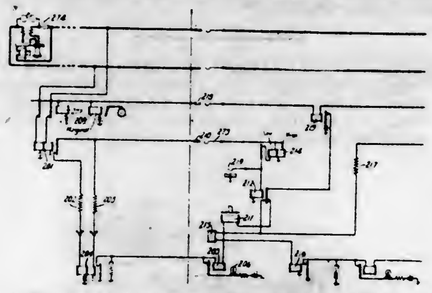
8. In a mechanism of the character described, the combination with a die block; of lever mechanism initiating the starting and stopping of said block; a movably mounted member; a connection between said movably mounted member and said lever mechanism whereby the movement of the former in one direction releases said lever mechanism; yielding means connected with said movable member and actuating the same in one direction; a die block connected with said movable member; and adjustable stop members for limiting the movement of said movable member in both directions.

1,387,170. PROCESS OF PRODUCING HYDROCYANIC ACID. ROBERT WADE POINDEXTER, Los Angeles, Calif., assignor to Poindexter and Company, a Copartnership. Filed July 6, 1920. Serial No. 394,343. 6 Claims. (Cl. 23—1.)



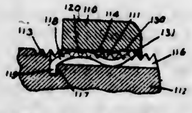
1. A process of producing hydrocyanic acid which comprises heating a hydrocarbon and injecting ammonia into said heated hydrocarbon.

1,387,171. **TELEPHONE-EXCHANGE SYSTEM.** Lipa Polinkowsky, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 20, 1919. Serial No. 278,178. 12 Claims. (Cl. 179—12.)



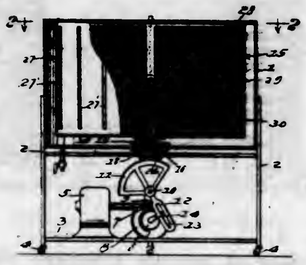
1. In a telephone system, telephone lines, an operator's position, connecting circuits for extending said lines to the operator's position, a register associated with each of said lines, automatic means for operating said registers during the release of the connecting circuits, and means under the control of the operator for rendering effective said automatic means.

1,387,172. **BOLT-LOCK.** Arthur F. Postel and Charles J. R. Postel, Indianapolis, Ind., assignors of one-fourth to Harry C. Krom and Charles D. Lockman, Indianapolis, Ind. Filed Aug. 20, 1920. Serial No. 404,734. 1 Claim. (Cl. 151—8.)



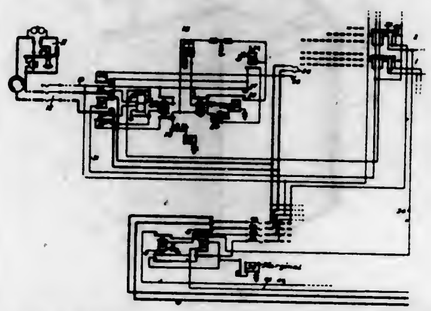
A locking device for male and female threaded members, each of said members being provided with an axially extending groove, said grooves being adapted to register with each other, and a resilient key member seatable in one of said grooves and adapted to project into the registering groove to lock the male and female threaded members together, said key member being provided with an angular end, and said key seating groove being provided with a depression to receive said key end to positively secure said key in said key-seating groove, said registering groove being provided with a cut-away portion and said key member being provided with an angularly extending portion seatable in said cut-away portion of said registering groove.

1,387,173. **CONVERTIBLE WASHING-MACHINE.** William E. C. Powell, Chicago, Ill. Filed May 15, 1919. Serial No. 297,248. 3 Claims. (Cl. 141—9.)



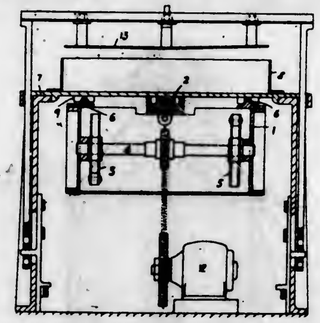
3. A receptacle having detachable interconnecting partition members each consisting of a frame formed with an inwardly extending lateral slot, whereby the members may be assembled in crossing relation with their side edges in the same planes, and covering means spanning the frames and provided with openings adapted for the passage of a fluid therethrough.

1,387,174. **MACHINE-SWITCHING TELEPHONE SYSTEM.** Winfred T. Powell, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 16, 1918. Serial No. 250,179. 8 Claims. (Cl. 179—18.)



1. In a telephone system, an arrangement of overflow trunks terminating at the outgoing end in line finding switches, and selector switches having over-run contact arrangements for actuating said line finding switches.

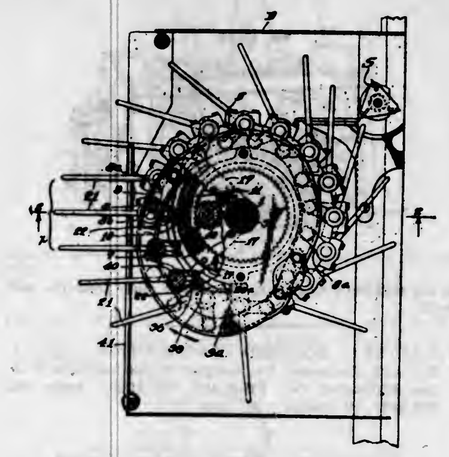
1,387,175. **APPARATUS FOR CONSOLIDATING GRANULAR SUBSTANCES IN MOLDS OR OTHER RECEPTACLES.** Frank George Price, Scotstoun, Glasgow, Scotland. Filed Sept. 1, 1920. Serial No. 407,490. 4 Claims. (Cl. 25—41.)



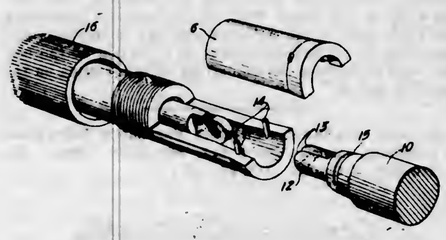
1. Apparatus for consolidating granular and other material comprising a carrier for the material to be consolidated, a bearing member having freedom for movement in directions transverse to one another and so disposed relatively to said carrier as by its movement to produce a tapping action on the carrier, and an unbalanced rotor rotatable relatively to said bearing member.

1,387,176. **COTTON-PICKER.** Theodore H. Price and Bruce Clark White, New York, and Walter J. Dudley, Brooklyn, N. Y.; said White and said Dudley assignors to said Price. Filed Dec. 7, 1917, Serial No. 206,000. Renewed Jan. 27, 1921. Serial No. 440,491. 10 Claims. (Cl. 56—118.)

1. In a cotton-picking machine, the combination of a revoluble picker-finger-carrying mechanism comprising a plurality of rockable carriers; a series of revoluble picker-fingers mounted in each carrier and each having a fixed pinion; mechanism for rocking the carriers and thereby determining the paths of the picker fingers during their travel; and a series of stationary arced racks with which the picker-finger pinions intermittently mesh during their travel.



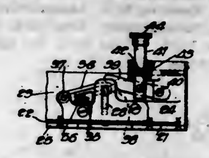
1,387,177. **FLEXIBLE SHAFT-COUPLING.** Charles E. Reddig, Kew Garden, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 10, 1920. Serial No. 409,375. 2 Claims. (Cl. 64—30.)



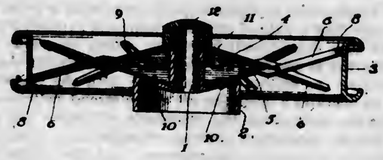
2. A shaft coupling comprising a rotatable driving member, a sleeve surrounding said driving member and having a removable portion, a driven member adapted for removable driving engagement with said driving member within said sleeve, there being a groove in said driven member, dowel pins adapted to coöperate with both portions of the sleeve and with the groove in the driven member, and a shell removably surrounding both portions of said sleeve and adapted to retain in place the removable portion of said sleeve.

1,387,178. **WATCHMAN'S CLOCK.** Thomas A. Rendle and Alois Beyer, Chicago, Ill., assignors to Hardinge Brothers, Inc., Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1919. Serial No. 332,396. 6 Claims. (Cl. 234—39.)

1. In a watchman's clock the combination of a casing, a record receiving means therein, a recording element for making a record thereon, and devices for striking the recording element against the record receiving means, said devices comprising a pivoted recording element carrier, a finger-piece, a spring interposed between the finger-piece and carrier arranged to store energy applied to the finger-piece, and a resistance member preventing operation of the carrier until a certain predetermined amount of energy has been stored in the spring.

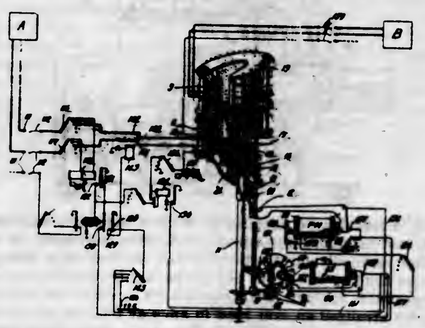


1,387,179. **WHEEL.** Henri Daniel Rey, Avarua, Rarotonga, New Zealand. Filed Feb. 7, 1920. Serial No. 356,856. 5 Claims. (Cl. 301—64.)



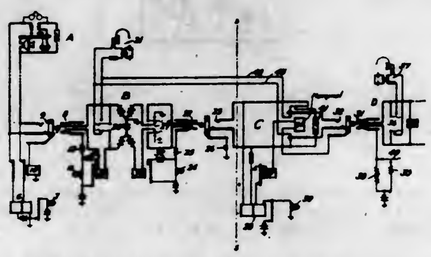
1. In a wheel, a hub and a rim and a body composed of sections, said sections being concave and having their concave faces adjacent, the sections having openings for the hub, the rim having lugs for engagement by the sections to limit their movement through the rim toward each other, and means for forcing the sections together, to flatten the sections to cause them to tightly engage the rim, said sections having interengaging means for preventing relative angular movement of the sections with respect to each other after they are in place on the wheel.

1,387,180. **TELEPHONE SYSTEM.** John Newberry Reynolds, Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1917. Serial No. 203,091. 17 Claims. (Cl. 179—27.5.)



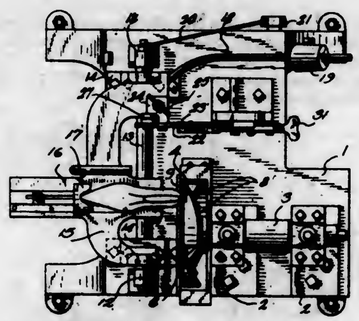
1. In an automatic switch, passive contacts, active contacts mounted for group and line selecting movements, a cylindrical member to which said active contacts are secured, said cylindrical member being provided with a spiral slot, an actuating member having an element coöperating with said slot, means for operating said actuating member, a controlling device for causing simultaneous operations of said members during group selecting movement of said contacts and for causing one member to move in one direction and for causing the other member to move in another direction during line selecting movements.

1,387,181. TELEPHONE-EXCHANGE SYSTEM. WILLIAM A. RHODES, New York, N. Y., and FREDERICK E. ANDERSON, Newark, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 30, 1918. Serial No. 256,272. 7 Claims. (Cl. 179—50.)



1. A telephone exchange system comprising a trunk circuit including a pair of talking conductors extending from a first to a second switchboard, a calling telephone line terminating at the first switchboard, a link circuit thereat connecting the calling telephone line with the trunk circuit, an operator's telephone set at the second switchboard, means for connecting the operator's telephone set with the talking conductors thereby establishing a telephonic connection between the telephone set and the calling telephone line, an operator's telephone set at the first switchboard, a switch at the second switchboard, and means in the trunk circuit responsive to the actuation of the switch to establish a circuit including the two operators' telephone sets.

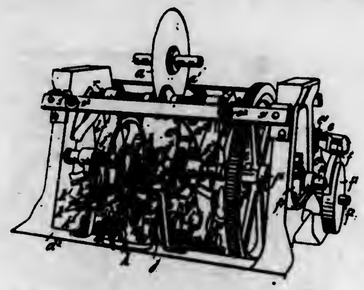
1,387,182. CONTOURING-MACHINE. CHARLES EUGENE RISSER, Dayton, Ohio, assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio, a Corporation of Ohio. Filed Aug. 17, 1917. Serial No. 186,712. 7 Claims. (Cl. 144—145.)



1. A machine for shaping the ends of shoe lasts wherein the last is guided through an oscillatory movement in a plane perpendicular to the plane of rotation of a rotary cutter head by which the end of the last is reduced to predetermined contour, characterized by a series of cutter blades arranged on said head in angular relation one with the other to agree with the sides of a regular polygonal figure concentric with the center of rotation of the head, the radial distance of said blades from the center being substantially coincident with the point of application of the last to the head.

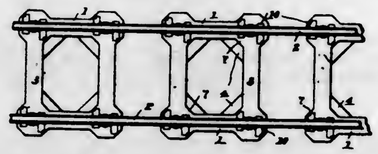
1,387,183. MACHINE FOR REMOVING THE CORES AND STONES FROM FRUIT. FRANK ROBBINS, Clifton Hill, Victoria, Australia. Filed Jan. 20, 1921. Serial No. 438,562. 5 Claims. (Cl. 146—6.)

1. In a machine for removing stones from fruit, devices for receiving and holding fruit, means for halving the fruit while held in said devices, means for separating r devices, a curved knife; and means for imparting motion



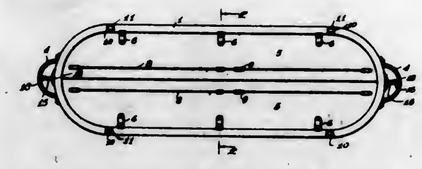
to the said knife to remove the core or stone from the said fruit.

1,387,184. ROADBED CONSTRUCTION. CARL J. ROELKER, Richmond, Va., assignor of one-fourth to W. F. Lee, Richmond, Va. Filed Mar. 29, 1920. Serial No. 369,517. 12 Claims. (Cl. 238—42.)



1. A cement road-bed construction consisting of a pair of oppositely disposed stringers extending longitudinally with the road-bed under the rail positions, transversely disposed tie-members connecting the stringers, and footing-webs of less depth than the tie-members connecting the inner sides of the stringers with the tie-members and operating to support the weight of a portion of the ballast, and to increase the supporting surface resting on the earth or ballast.

1,387,185. BASKET. CHARLES FREDERICK ROTHWELL, Columbus, Mont. Filed Oct. 30, 1920. Serial No. 420,650. 3 Claims. (Cl. 27—28.)

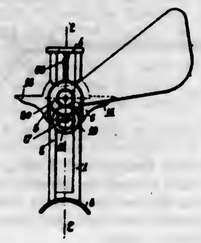


1. As a new article of manufacture, an inclosed body carrying basket including a base frame, a pair of doors hinged to the sides of the base frame and swingable downwardly and outwardly, and devices movable through the ends of the frame to lock the doors in closed position.

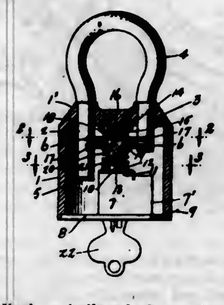
1,387,186. ROTARY POCKET-FAN. EUGÈNE SCHUELLER, Paris, France, assignor to Société Industrielle de Celluloid, Paris, France, a Limited Company of France. Filed Nov. 18, 1920. Serial No. 424,831. 2 Claims. (Cl. 230—33.)

1. A pocket fan comprising a slide consisting of two members connected together by tenons and mortises and carrying two push abutments, a blade shaft carried by

the slide, an intermediate shaft carried by the slide, means interconnecting said shafts, and a rack for actuating the intermediate shaft and serving as a guide for the slide.

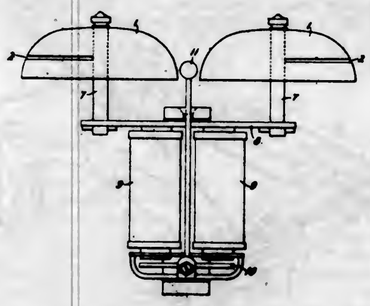


1,387,187. PADLOCK. SAMUEL SEGAL, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,822. 8 Claims. (Cl. 70—108.)



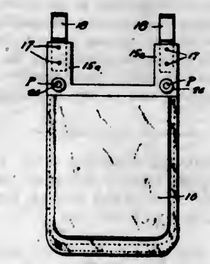
4. In a padlock, a hollow body, a shackle, a rotatable post within said body provided with a slot, a key-plug supported within said body, a stem connected to said key-plug and entering the slot in said post, locking means carried by said post adapted to interlock with said shackle and a spring engaging said key-plug and said locking means for maintaining said locking means in proper position.

1,387,188. BELL. OSCAR A. SHANN, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1917. Serial No. 204,026. 5 Claims. (Cl. 116—149.)



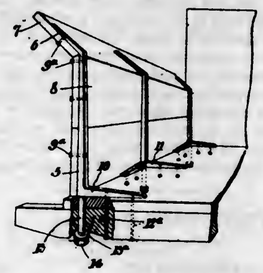
1. A gong having a circumferential slot and a second slot extending from said circumferential slot to the edge of the gong.

1,387,189. COMBINED TOOL-POUCH AND TESTING DEVICE. ALBERT E. SHARKEY, Cuyahoga Falls, Ohio, assignor to The General Rubber Goods Co., Cleveland, Ohio. Filed Mar. 6, 1920. Serial No. 363,696. 2 Claims. (Cl. 175—183.)
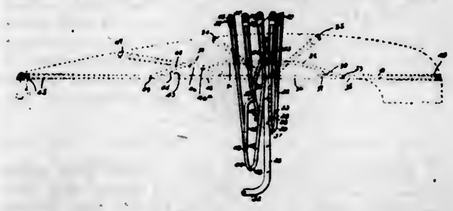


1. A device of the character described comprising, a plate of insulating material, a resistance wire coiled about said plate, a pouch for housing said plate and wire, terminal posts carried by the pouch and electrically connected to the ends of said wire, and supporting hooks carried by said pouch.

1,387,190. VEHICLE-BODY BRACE. LOUDON SILCOTT, Mount Vernon, Ohio. Filed Dec. 28, 1920. Serial No. 433,622. 1 Claim. (Cl. 296—36.)



A vehicle-body brace unit consisting of a main body standard-forming portion having in continuation thereof an attenuated and bent upper end portion, a lower end portion also in alinement with said standard-forming portion, and horizontal portions extending laterally from said standard-forming portion intermediate the base thereof and the said lower end at right angles to each other, said standard-forming portion with its attenuated end and said horizontal portions being provided with fastening-receiving openings, the said lower end portion being equipped with fastening means, substantially as shown and described.

1,387,191. AUTOMOBILE-BODY AND TOP THEREFOR. CONOVER T. SILVER, New York, N. Y. Filed Feb. 28, 1917. Serial No. 151,447. 19 Claims. (Cl. 296—116.)

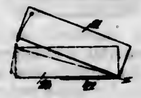


1. An automobile body having an opening through its upper surface, a support pivoted in the opening, lids for

closing the opening and having adjacent edges with cut-away portions extending through the edges, and means for closing the cut-away portions in the lids when the body of the support is lowered into the opening in the body.

6. An automobile top having two supporting arms, a front intermediate bow pivoted to the arms, a rear intermediate bow pivoted to the arms, supporting means pivoted to the arms and extending beyond the bows in one direction, supporting means pivoted to the arms and extending beyond the bows in the opposite direction, and links pivoted together and to the bows and to the said means.

1,387,192. COMBINED CARTON AND DISPLAY DEVICE. JOSEPH B. SINGER, Brooklyn, and ARTHUR B. LEVY, New York, N. Y. Filed Oct. 14, 1916. Serial No. 125,575. 4 Claims. (Cl. 206—44.)



1. An improved display carton, comprising a container portion, a cover portion adapted to have its open side moved into engagement with the bottom of said container portion to constitute a support therefor, one end of said container portion adapted to rest on the base of said cover portion, the other end thereof adapted to rest upon the edge of one end of said cover portion, and a hinged member connecting said container portion and said cover portion, and adapted to guide the movement of said cover into supporting position, said hinged member in display position extending beneath and engaging the bottom of said container portion, and forming with said end of the cover portion a rest for the container portion for supporting the same in inclined position and occupying an inclined position extending below the horizontal plane of its point of connection with said cover portion.

1,387,193. [WITHDRAWN.]

1,387,194. [WITHDRAWN.]

1,387,195. [WITHDRAWN.]

1,387,196. [WITHDRAWN.]

1,387,197. [WITHDRAWN.]

1,387,198. [WITHDRAWN.]

1,387,199. METHOD OF MAKING TUBING. GEORGE A. SMALL, Philadelphia, Pa., assignor, by direct and mesne assignments, to Philadelphia Bronze Bearing & Tube Company, Philadelphia, Pa., a Corporation of Delaware. Filed June 22, 1920. Serial No. 390,891. 9 Claims. (Cl. 29—156.)



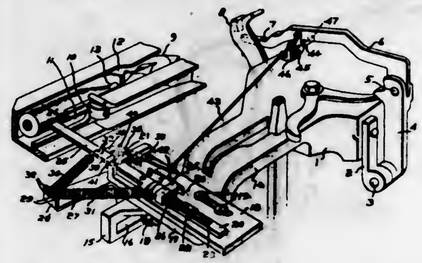
1. The art of making butt joint metallic tubes which consists in bending a metal blank to a tubular form with longitudinal edges in juxtaposition but not final relation and then drawing said form so as to flow the metal and set said edges in closer firm abutting relation.

1,387,200. LIGHT-SHIELD. OSCAR PECK SMITH, Worcester, Mass. Filed Nov. 13, 1920. Serial No. 423,972. 8 Claims. (Cl. 20—0.5.)



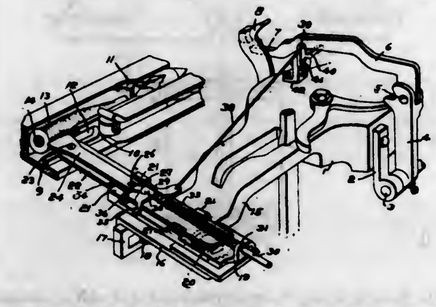
1. As a new article of manufacture, a light excluding strip attachable to a closure frame to prevent light from entering between the closure and frame, said strip being formed of cardboard treated to present a light reflecting and light absorbing surface, said strip having a longitudinal fold line adjacent one edge, and means for attaching the strip to a closure frame.

1,387,201. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 7, 1919. Serial No. 328,079. 8 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler stand, a feeler carrier mounted on the stand for movement toward and from the front of the loom, a feeler pivotally connected to the feeler carrier, two springs one connected to the feeler rearwardly of its pivotal connection with the feeler carrier, and the other connected to the feeler frontwardly of its pivotal connection with the carrier, and normally acting to hold the feeler and feeler carrier rearwardly in feeling position, and having their relative tensions changed to cause movement of the feeler in a direction longitudinally of the shuttle when the filling is substantially exhausted on a detecting beat, and means actuated by movement of the feeler longitudinally of the shuttle to effect replenishment of filling.

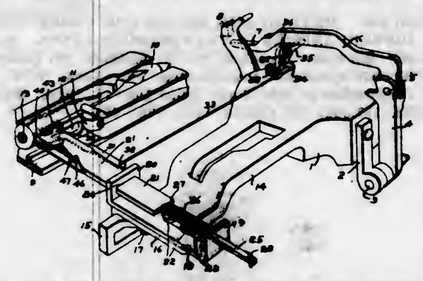
1,387,202. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 1, 1920. Serial No. 362,378. 10 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from

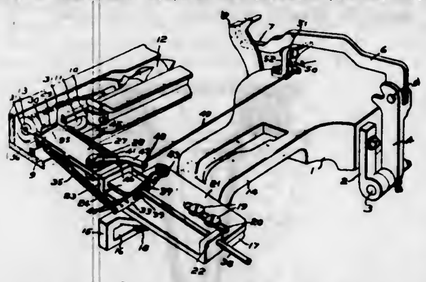
the front of the loom, a feeler pivotally mounted on the feeler carrier for movement in a direction longitudinally of the shuttle and held from such movement on a detecting beat by engagement with the filling until substantial exhaustion thereof, a rocking member mounted on the feeler carrier and connected to the feeler, a spring acting through the rocking member to normally maintain the feeler carrier and feeler in rearward feeling position and to effect movement of the feeler longitudinally of the shuttle when the filling is substantially exhausted on a detecting beat.

1,387,203. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 1, 1920. Serial No. 362,380. 15 Claims. (Cl. 139—85.)



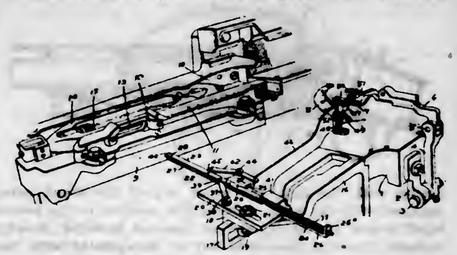
1. In a feeler mechanism for looms, the combination of a feeler slide mounted for movement toward and from the front of the loom, a feeler carrying lever pivotally mounted on the feeler slide, one arm of said lever being extended laterally to be engaged by a surface within the shuttle on each detecting beat and tending, under the frontward pressure upon it, to turn the said lever, a feeler pivotally mounted on the said arm and having teeth which sink into the filling on a detecting beat and prevent movement of the feeler carrying lever responsive to the frontward push upon the arm until the filling is substantially exhausted, and means connected to the feeler carrying lever for effecting replenishment of filling when the said lever is turned on its pivotal mounting.

1,387,204. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 1, 1920. Serial No. 362,381. 13 Claims. (Cl. 139—85.)



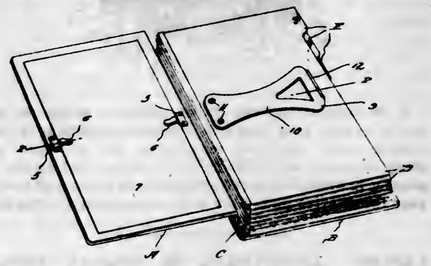
1. In a feeler mechanism for looms, the combination of a feeler carrier mounted for movement toward and from the front of the loom, a feeler tip mounted for bodily movement laterally on the feeler carrier, a spring which normally tends to move the feeler carrier to its rearward position and the feeler tip laterally and is prevented from effecting lateral movement of the feeler tip by its engagement with the filling on a detecting beat until substantial exhaustion of filling, and means linked to the feeler tip to effect replenishment of filling when the feeler tip is bodily moved laterally on a detecting beat.

1,387,205. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 7, 1920. Serial No. 372,008. 14 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler jointed intermediate of its ends and supported to be engaged by a surface in the shuttle and pushed frontwardly thereby on a detecting beat, means for yieldingly maintaining the sections of the jointed feeler extended substantially in alinement, teeth upon the feeler to engage the filling and hold the feeler from moving longitudinally of the shuttle, means for deflecting the intermediate portion of the feeler laterally as the feeler is pushed frontwardly by a surface in the shuttle when a substantial amount of filling is present and for moving the rear end of the feeler longitudinally of the shuttle when filling is substantially exhausted, and means operable upon movement of the feeler longitudinally of the shuttle to effect replenishment of filling.

1,387,206. BOOK CONSTRUCTION. RUTH G. SODERBERG, Grand Marais, Minn. Filed Nov. 9, 1916. Serial No. 130,435. 1 Claim. (Cl. 129—20.)



In a device of the kind described, a series of pages, a series of resilient clips arranged in pairs with the two of each pair positioned against the opposite sides of each page, the inner end of said clips being secured to each page and their outer ends being free and formed with an outwardly curved lip disposed substantially at a right angle to the clip, the lips of facing clips on adjacent pages abutting each other to space adjacent pages from each other, and a flexible binding strip having its opposite marginal portions secured to the two outer of the series of pages, the said strip being formed with a plurality of folds so arranged that the several pages are secured between them in a manner to permit the pages to be swung apart or against each other, the folds intervening between the pages forming means to space the pages apart, whereby open ended compartments are provided by the said folds and the abutting lips of said clips.

1,387,207. FIREARM. FRANCIS A. STAFFORD, Fulton, N. Y., assignor to The Hunter Arms Company Inc., Fulton, N. Y., a Corporation of New York. Filed June 8, 1917. Serial No. 173,539. 2 Claims. (Cl. 42—44.)

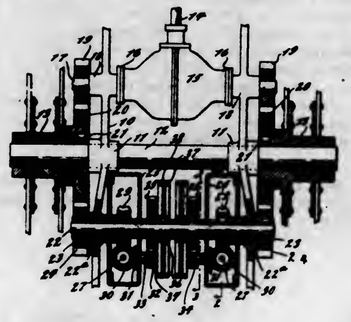
2. In a gun, a frame including a breech block, a barrel hinged to the frame, the breech block having a horizontal

shelf between its upper and lower sides and also having a lock opening for the barrel above the shelf, a thumb lever having a shank extending downwardly through the top of the frame to the rear of the opening for the lock and co-



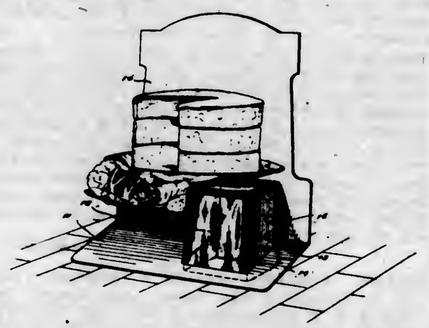
acting with the lock, the lower end of the shank being engaged with the shelf, a firing pin movable in the breech block below the shelf, and a hammer movable directly beneath the shelf into and out of engagement with the firing pin, substantially as and for the purpose described.

1,387,208. CONTROL DEVICE FOR DRIVEN MEMBERS. NORMAN C. STOREY, Passaic, N. J. Filed Nov. 7, 1919. Serial No. 336,491. 10 Claims. (Cl. 180—17.)



1. In combination, two driven members, means for normally locking said members together comprising a self-locking worm and gear constructed and arranged normally to rotate with said driven members, and means for causing relative movement between said worm and gear to vary the relative movement between said driven members.

1,387,209. ADVERTISING OR DISPLAY DEVICE. JULIEN STRANDBAS, New York, N. Y., assignor to Harry B. Kruger, New York, N. Y. Filed Mar. 11, 1918. Serial No. 221,695. 8 Claims. (Cl. 211—24.)



1. A display device comprising a main panel and a secondary panel having a horisontal hinge connection along one of its edges to said main panel, said secondary panel being provided with an article receiving opening extending from one side of the main panel to a point in spaced relation to the free longitudinal edge of the secondary panel, said device adapted for arrangement upon a supporting surface with the main panel vertically disposed and the secondary panel extending forwardly and downwardly at an inclination from the main panel and resting at its free edge upon the supporting surface, the device being retained in display position by the article positioned in the opening of the secondary panel and said main panel having parts contacting with the article above and below the horizontal hinge line connecting the panels to prevent hinging movement of the main panel in either direction with respect to the secondary panel.

1,387,210. METHOD AND MEANS FOR CORRECTING IRREGULARITIES IN TRANSMISSION-LINES. MORTON SULTZER, Brooklyn, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 16, 1916. Serial No. 137,601. 23 Claims. (Cl. 178—45.)

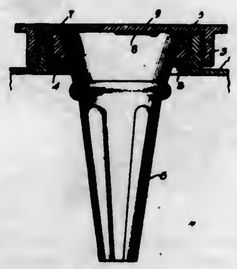


6. A unitary multiple condenser structure containing a plurality of units composed of sheets of conducting and insulating material, and comprising means for varying the capacity of one unit without affecting the capacity of another of said units.

10. The method of correcting irregularities in sections of transmission lines which comprises inserting a corrective impedance in a section between the sheath and a wire of said line to bring the value of the impedance therebetween to a desired value.

19. A transmission cable comprising a plurality of wires and a sheath, corrective capacities between said wires and said sheath and between said wires.

1,387,211. POURING ATTACHMENT FOR CANS. GILBERT C. SWEENY, Brooklyn, N. Y. Filed Jan. 4, 1921. Serial No. 434,877. 2 Claims. (Cl. 221—24.)



1. The combination with a container having an opening therein, an internally screw threaded ring around the opening and a cap normally fitting over the ring, of an annular externally threaded reversible funnel carrying member fitting within the ring, a funnel having its mouth fixed to the funnel carrying member, and a handle member secured transversely across the mouth of the funnel.

1,387,212. PROCESS OF MAKING ARSENATE OF LEAD. MAX LEONARD TOWER, Middleport, N. Y. Filed Aug. 3, 1920. Serial No. 400,899. 6 Claims. (Cl. 23—13.)

1. A process of making arsenate of lead which consists in dissolving litharge in a dilute solution of acetic acid, adding arsenic acid in small streams, and filtering off the resulting precipitate of arsenate of lead.

1,387,213. PROCESS OF MAKING LEAD ARSENATE. MAX LEONARD TOWER and FREDERIK LANGE BEGTRUP, Middleport, N. Y., assignors to Niagara Sprayer Co., Middleport, N. Y., a Corporation. Filed Aug. 31, 1920. Serial No. 407,198. 7 Claims. (Cl. 23—13.)

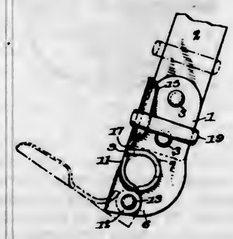
1. A process of making lead arsenate, which consists in treating litharge with arsenic acid in the presence of a neutral nitrate.

1,387,214. COMBINATION-TOOL. HENRY E. J. WACKWITZ, Port Washington, N. Y., assignor of forty-nine per cent. to Walter Hewett, Sands Point Road, N. Y. Filed Apr. 16, 1920. Serial No. 374,300. 4 Claims. (Cl. 7—1.)



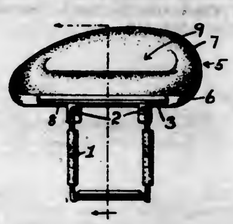
1. A combination tool, comprising a can-opener and a screw-driver pivotally connected together, said can-opener having a portion serving to guard the end of said screw-driver, and said screw-driver having a portion serving to guard said can-opener and so arranged that when desired the guarding portions may be swung out of position so that a tool can be used.

1,387,215. FRONT-FORK CLIP FOR VELOCIPEDES. EDWARD R. WAGNER, Milwaukee, Wis., assignor to E. R. Wagner Manufacturing Company, North Milwaukee, Wis., a Corporation of Wisconsin. Filed Apr. 8, 1920. Serial No. 372,187. 5 Claims. (Cl. 208—96.)



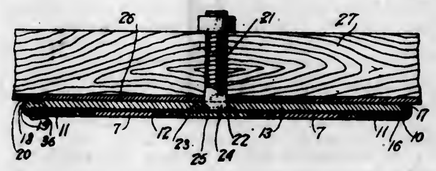
1. In a front fork clip for velocipedes, the combination of an attachment member adapted to be fastened to a fork arm and formed with a recess in one edge, a semi-cylindrical axle bearing fitted and secured in said recess transversely to the attachment member, a cap member folded to embrace the edge of the attachment member and pivoted thereto on one side of the recess, and means for holding the cap member in closed position.

1,387,216. VIOLIN CHIN-REST. STEPHEN J. WALLACE, Logansport, Ind. Filed Oct. 25, 1920. Serial No. 419,363. 4 Claims. (Cl. 84—279.)



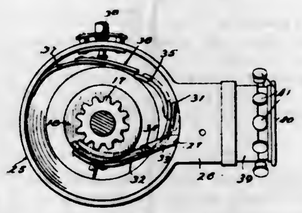
1. A violin chin rest including a supporting plate, a pad resting on said plate and having a base formed of thick resilient material provided with a pocket designed to engage said plate, and a soft porous body resting on said base.

1,387,217. INTERCHANGEABLE-INITIAL PLATE. WILLIAM W. WATTERS, New Rochelle, N. Y. Filed Oct. 19, 1920. Serial No. 417,907. 15 Claims. (Cl. 40—124.5.)



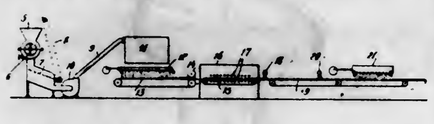
10. In a device of the character described, a base plate adapted to be secured to a support and having undercut rearward edges, a frame adapted to receive interchangeable initial plates and having flanges to engage over the undercut edges of the base plate, said frame being partly open at one end to enable endwise engagement of the same over the base plate and provided at said end with a spring lip, and a lug on the forward face of the base plate positioned to be engaged by said spring lip.

1,387,218. STEERING-WHEEL LOCK. GEORGE ANTHONY WEHNER, Savannah, Ga. Filed Aug. 2, 1920. Serial No. 400,843. 6 Claims. (Cl. 70—129.)



1. In combination with a vertically movable steering wheel and its gear-carrying shank, having a collar, of a combined latching and locking lever pivotally supported intermediate its ends and shiftable by gravity to engage the shank above and below its collar for respectively holding the same in active and inactive positions, freely movable means including a push button, engageable with the lever in its latching position above the collar to release the same, and out of the path of movement of which means the lever is positioned when said lever is in locking engagement with the shank beneath the collar, and a release lock mechanism having means for engaging and releasing the said lever when the latter is in locked position.

1,387,219. COMPOSITE FIBROUS PRODUCT. HOWARD FREDERICK WEISS, Madison, Wis., assignor to C. F. Burgess Laboratories, Madison, Wis., a Corporation of Wisconsin. Filed Apr. 25, 1919. Serial No. 292,677. 20 Claims. (Cl. 154—40.)



1. The method of manufacturing composition roofing material which comprises mixing in a substantially dry and solid condition fibrous material and a binding agent, subjecting said material to compression to shape the same, and spraying the compressed mixture with a saturant.

1,387,220. CLIP FOR PENS AND PENCILS. GLEN R. WELLS, Fort Wayne, Ind. Filed Mar. 3, 1921. Serial No. 449,525. 4 Claims. (Cl. 24—11.)



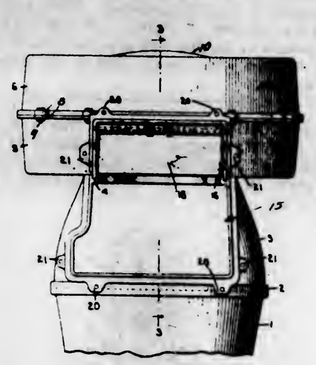
3. In combination with a spring pen or pencil clip, a washer loosely secured upon the clip and being adapted to be tilted in one position so as to engage the cloth of the garment and resist withdrawal of the pen or pencil to which the clip is attached, and in another position so as to slide freely over the cloth during withdrawal of the pen or pencil.

1,387,221. COMBINATION TRUNK-SECTION COVER AND LAUNDRY-BAG. GEORGE HENRY WHEARY, Racine, Wis. Filed May 13, 1920. Serial No. 381,058. 4 Claims. (Cl. 190—13.)



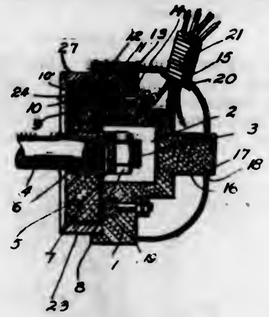
1. The combination with a trunk wardrobe section having an open front and a shoe box mounted in its lower portion and closing a part of said open front, of a combined cover and laundry bag for the remaining portion of the open front, comprising a double thickness of flexible material covering said open portion and having its inner thickness expansible inwardly into the said trunk section, the outer thickness of material provided with an opening, a bar engaging the upper portion of the material and having means which removably engage the upper front portion of the trunk section, and means releasably connecting the lower portion of the flexible material to the upper portion of the shoe box.

1,387,222. FURNACE. WILBERT G. WISE, Akron, Ohio, assignor to The Wise Furnace Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 24, 1921. Serial No. 455,031. 7 Claims. (Cl. 126—102.)



2. In a furnace construction, a combustion chamber, a radiator above the combustion chamber, the combustion chamber and the radiator being open at one side, an integral extension about the opening in the combustion chamber, and an integral extension about the opening in the radiator, the said extensions together forming a fuel feeding passageway.

1,387,223. ELECTRIC TIMER. RUSSELL L. WYSS, Kansas City, Mo., assignor of one-half to Derwood L. Piggott, Kansas City, Mo. Filed July 21, 1919. Serial No. 312,252. 3 Claims. (Cl. 200—19.)



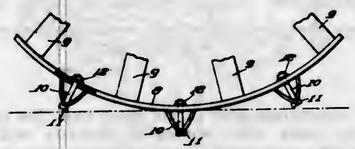
1. In an electric timer for ignition systems, a distributer comprising a block having a recessed central portion, a ring carried by the face of the block and extending outwardly therefrom, a shaft extending into the recessed central portion, a commutator disk on the shaft comprising an insulation block co-extensive with the space sealed by the ring and receivable within the ring, a spring-pressed contact parallel with the axis of the shaft and carried by the commutator disk, distributing contacts on the block having faces flush with the end thereof and in line with the circular band scribed by the contact carried by the commutator, and means for conductively connecting the commutator contact with the shaft.

1,387,224. DOLL. EDWIN ARTHUR AHLSS, Chester, Pa. Filed July 8, 1920. Serial No. 394,777. 3 Claims. (Cl. 46—40.)



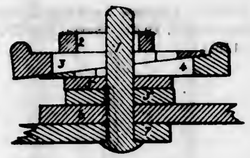
1. In a doll, a body portion, a head revolubly mounted thereon, a gear wheel carried by the head, a second gear wheel meshing with the first-mentioned gear wheel, and reciprocating means for imparting rotary movement to said gear wheels to effect a step-by-step rotary movement of the head of the doll.

1,387,225. TRACTOR. CHARLES J. ALLEN, Moorestown, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed Nov. 7, 1919. Serial No. 336,384. 2 Claims. (Cl. 301—44.)



1. A traction cleat for a tractor wheel, comprising a pair of oppositely disposed, longitudinally extending and outwardly convexed members, each of said members having a single free longitudinally extending edge and the common edges of said members forming the apex of the cleat, said longitudinally extending edges and said common edge lying at the vertices of an equilateral triangle.

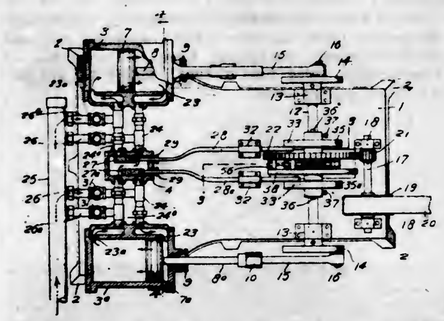
1,387,226. CLAMPING DEVICE. GEORGE AIRD, North Bay, Ontario, Canada, and WILFRED AIRD, San Francisco, Calif. Filed May 21, 1920. Serial No. 383,330. 1 Claim. (Cl. 85—8.)



A clamping device which consists of a bolt, to pass through the plates to be riveted together, the shank thereof flattened on opposite sides to form a T head at its smaller end; a locking washer to resist the pressure of the wedges against the head of the bolt, said washer having near one of its edges a hole to pass over the T head of the bolt and a slot to fit the flattened part of the shank extending from the said hole toward the opposite edge and wedges to press together the plates to be riveted against the head of the bolt; said wedges having a hole near their thin end to pass over the head of the bolt and a slot to fit the flattened part of the shank, extending along their axis from the said hole toward the thick end thereof in the manner and for the purpose herein above described.

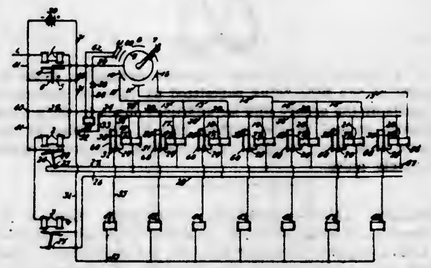
1,387,227. STEAM-ECONOMIZER. JOHN LOUIS BARNETT, Chicago, Ill. Filed Feb. 28, 1920. Serial No. 362,062. 1 Claim. (Cl. 103—79.)

A device of the character specified, adapted to be arranged between a steam engine and the boiler from which the engine receives steam and adapted to be connected with the exhaust of the engine to return the exhaust products to the boiler, and comprising a pair of parallel cylinders, an operating shaft, a piston in each cylinder connected with the operating shaft, a driving shaft, a yieldable



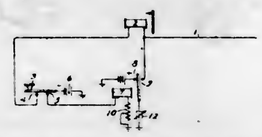
connection between the driving shaft and the operating shaft, a valve chest arranged between the cylinders, valves in connection with the chest and operated by the operating shaft, the chest and the cylinders being ported to alternately connect the ends of the cylinder to the boiler and to the exhaust.

1,387,228. SELECTIVE SYSTEM. JOHN HUME BELL, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 26, 1917. Serial No. 182,961. 10 Claims. (Cl. 178—33.)



1. In a telegraph system, a line, a plurality of impulse receiving relays serially connected with said line, a plurality of selecting relays, a source of potential, and means for consecutively connecting said source of potential with said selecting relays upon the energization of a pair of said impulse receiving relays for causing the operation of said selecting relays.

1,387,229. TELEGRAPH SYSTEM. JOHN H. BELL, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Apr. 9, 1918. Serial No. 227,567. 6 Claims. (Cl. 178—63.)



4. A telegraph system comprising a line, a source of current, a condenser normally connected with said source of current, a transmitting key, and a relay controlled by

said transmitting key and adapted upon its deënergisation to connect said condenser with said line whereby a current impulse of a polarity opposite to that of the line current present at the remote station traverses said line.

1,387,230. CLASP-STUD. GEORGE T. BRANNIGAN, Bridgeport, Conn., assignor to The Connecticut Web and Buckle Company, Bridgeport, Conn., a Corporation of Connecticut. Filed June 6, 1921. Serial No. 475,263. 3 Claims. (Cl. 24—245.)



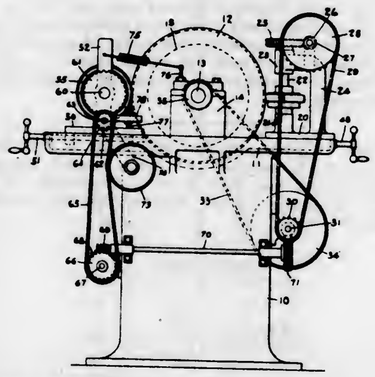
1. A clasp-stud formed from a wire blank and comprising an approximately circular head formed at one end of the blank, the blank being then bent inward and downward to form half a shank, the blank being then bent outward and curved and recurved twice on opposite sides of the shank to form web slots, and then upward to complete the shank.

1,387,231. FLEXIBLE TUBE. LOUIS H. BRINKMAN, Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation, a Corporation of New York. Filed Nov. 18, 1915. Serial No. 62,108. Renewed Feb. 20, 1920. Serial No. 360,073. 16 Claims. (Cl. 137—75.)



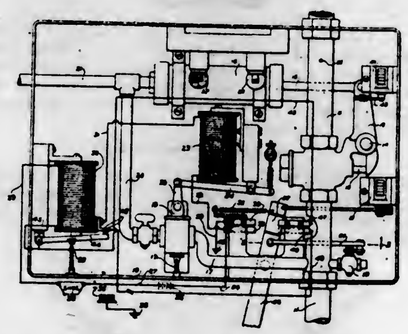
2. A flexible tube having a groove extending about it, flexure of the tube being permitted by relative movement of walls of the groove and an auxiliary layer in strip form helically wound in the bottom and at the sides of the groove, said layer bending transversely as the groove walls relatively move.

1,387,232. LENS-GRINDING MACHINE. LUCIAN W. BUGBEE, Indianapolis, Ind., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind., a Corporation. Filed Feb. 12, 1919. Serial No. 276,539. 6 Claims. (Cl. 125—11.)
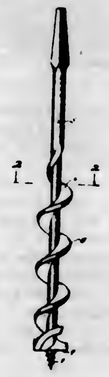


4. A frame, means on said frame for rotating a lens surfacing wheel, a vertical shaft carried by said frame near the surfacing wheel and at a right angle to the axis thereof, a truing wheel mounted on said shaft so its periphery will engage the periphery of the surfacing wheel transversely thereof, and means for driving said means for rotating the surfacing wheel and shaft simultaneously.

1,387,233. SAFETY ATTACHMENT FOR AUTOMATIC TRAIN-STOPS. MELBERN BENNIE BULLA, El Paso, Tex. Filed July 2, 1919. Serial No. 306,107. 1 Claim. (Cl. 246—183.)



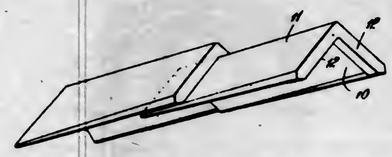
The combination with an air brake train line pipe, a normally closed valve serving to maintain said pipe charged with compressed air and automatic means to open the valve when the train passes a danger point without authority, of an auxiliary valve having a small delivery port, electric controlled means under the command of the engineer whereby he may pass a danger point under orders without causing the main valve to be opened or stopping the train within a reasonable time, and connections between the auxiliary valve having the small port and the said electric controlled means whereby irrespective of the will of the engineer the train line pipe is bled of air and the train is caused to stop if the manually controlled devices are not restored within a reasonable time to normal position.

1,387,234. TOOL. ANDREW JACKSON BURKE, New Haven, Conn. Filed Apr. 6, 1920. Serial No. 371,700. 1 Claim. (Cl. 145—116.)



A boring tool including in combination with a shank a worm secured to said shank, and a bit at the lower end of said shank, of a series of teeth formed in the upper side edges of said worm.

1,387,235. RIDGE-SADDLE. CURT E. BURKHARDT, Teaneck, N. J. Filed Apr. 21, 1919. Serial No. 291,747. 3 Claims. (Cl. 108—24.)



1. A ridge saddle of an asbestos and cement mixture comprising angularly disposed flat sides of substantially uniform thickness but tapering in width, inwardly extending flanges at the wider end thereof and longitudinal flanges connecting at one end thereof with said end flanges and being tapered toward the other end thereof.

1,387,236. BOX FOR HEAT-TREATING METALLIC ARTICLES. CLARENCE BERNARD CALLOMON, South Orange, N. J., assignor to Driver-Harris Company, Harrison, N. J., a Corporation of New Jersey. Filed Oct. 28, 1920. Serial No. 420,185. 3 Claims. (Cl. 263—49.)



1. A box for heat treating metallic articles, comprising a hollow cylindrical body portion having an opening on one side constituting the mouth of the box, said opening extending approximately the full length of said body portion, vertical end closing portions for said box body, and a cover for said box.

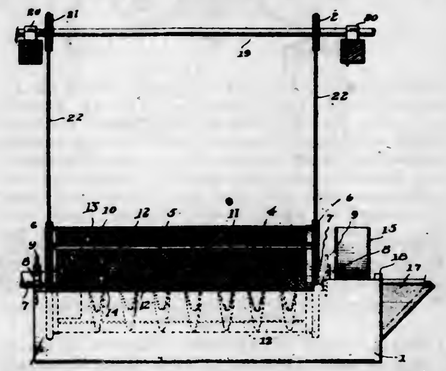
1,387,237. CONTAINER. CORA H. CARTLEDGE, Philadelphia, Pa. Filed Aug. 22, 1919. Serial No. 319,142. 2 Claims. (Cl. 220—24.)



2. A dispensing container, comprising a body portion, a vertically extending draining channel formed in the wall thereof and discharging from the upper edge thereof, said channel extending from a point at or near the bottom of the body portion to the upper edge and gradually enlarged on diverging lines from the bottom to the top, a flange permanently secured to the upper edge of the body portion and extended to cover the upper end of the channel, a filling opening formed in said flange and a sealing cap fitted to the opening.

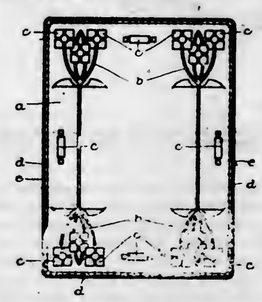
1,387,238. PLACER-GOLD CONCENTRATOR. DANIEL B. CAVE, Lincoln, Nebr., assignor of one-fourth to Harold M. George, one-fourth to E. Alfred Willner, one-eighth to C. Petrus Peterson, and one-eighth to Robert W. Devoe, Lincoln, Nebr. Filed Nov. 22, 1918. Serial No. 263,773. 1 Claim. (Cl. 83—56.)

An apparatus of the class described comprising a tank, a rotatable drum arranged therein and consisting of end walls and foraminous sides, an involute receiver arranged within said drum at one end of the same, a spiral conveyer secured within said drum for rotation with the same and adapted for directing material into said involute receiver, a hollow shaft extending through one of said end walls and having communication with said receiver, a partition arranged in said tank and defining an intake section, a



second involute receiver arranged in said intake section, a hollow shaft extending through one end wall of said drum and extending through said second named receiver, said second named shaft being provided with a slot establishing communication between the second named shaft and the second named receiver, the capacity of the first and second named receivers being approximately equal, and means rotating said drum.

1,387,239. TABLE-MAT. BERTHA F. CHANDLER, Chicago, Ill. Filed Sept. 24, 1917. Serial No. 192,867. 1 Claim. (Cl. 65—53.)

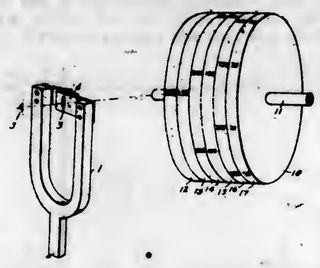


A table mat comprising a surfaced fabric body, a relatively narrow border of the same material as the body, a relatively thick adhesive coating applied to said border giving it additional weight, firmness and rigidity, the connecting part between said body and said border being weakened by a line of closely spaced interstices and stitching passing through said interstices wrapped about and binding said border, said stitching further increasing the weight of said border, whereby the relatively heavy border, through its weakened connection to the body portion prevents curling thereof.

1,387,240. STROBOSCOPIC SYSTEM. RAYMOND E. COLLIS, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 14, 1918. Serial No. 217,153. 5 Claims. (Cl. 88—14.)

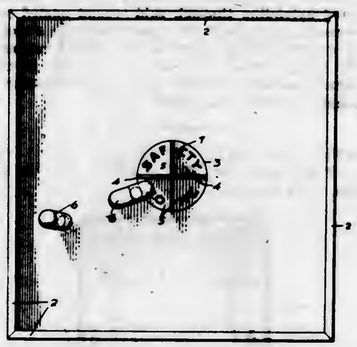
1. A stroboscopic system comprising a moving body carrying a plurality of sets of numerals, the numerals of

each set being equally spaced and of the same value, the numerals of the respective sets being spaced at different distances apart and of different values, and means for



rendering any of the numerals of any of the sets legible during the rotation of said body when the speed thereof corresponds to the value of the numerals in one of such sets.

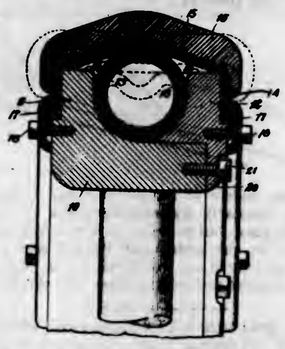
1,387,241. GAME APPARATUS. ALBERT O. COULLIARD, Milford, Mass. Filed Dec. 14, 1920. Serial No. 430,642. 1 Claim. (Cl. 46—41.)



In a game apparatus, a shallow rectangular box-like container, the base of said container forming a field having a centrally disposed circle thereon, diametrically opposed upstanding intersecting partitions parallel to the wall of the container, and dividing the circle into sectors, a plurality of weighted tumblers adapted to be actuated by tilting the field, said circle having displayed therein a caption including the words "Safety zone."

1,387,242. TIRE. JOSHUA CRANE, Westwood, Mass. Filed Dec. 24, 1919. Serial No. 347,115. 1 Claim. (Cl. 152—10.)

A vehicle wheel, having a rim of substantially channel form in cross section with comparatively thick outwardly extending approximately parallel flanges, presenting comparatively wide cylindrical load supporting surfaces, an inflatable and substantially non-extensible tube within said channel and having a diameter, when inflated, greater than the depth of the channel, so as to project outward radially beyond said surfaces, and a casing of substantially channel shape in cross section, the flanges of said casing extending inward radially of the wheel and overlapping the flanges of said rim, and detachably secured to the outer surface of the latter, the web of said casing channel being of substantially uniform thickness through its width, and normally bowed outwardly from the outer edge of one of said surfaces to the opposite outer edge of the other surface, so as to be free



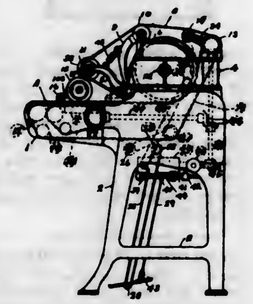
of said surfaces when said tire is inflated and adapted to rest on said surfaces and directly transmit the weight of the load to said surface when said tube is deflated.

1,387,243. RUBBER HEEL AND INSERT THEREFOR. GEORGE N. DAMON, Lorain, Ohio, assignor to The Lorain Rubber Heel Company, Lorain, Ohio, a Corporation of Ohio. Filed Jan. 7, 1920. Serial No. 349,970. 3 Claims. (Cl. 36—75.)



1. A resilient heel having a body portion provided with an upper cushioning chamber and a wear resisting member embedded in said body portion below said chamber and provided with body and anchor portions lying in different planes, said member extending horizontally beyond the edges of said chamber.

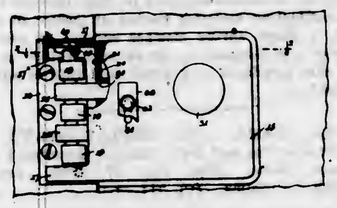
1,387,244. TOBACCO STEMMING AND BOOKING MACHINE. JOHN H. DEAN, Grand Rapids, Mich. Filed Jan. 13, 1919. Serial No. 270,938. 10 Claims. (Cl. 131—57.)



8. A tobacco stemming machine comprising a support, a table having a longitudinal slot therein carried by the support, conveying means leading over the table to carry a leaf of tobacco in the direction of the length of the stem

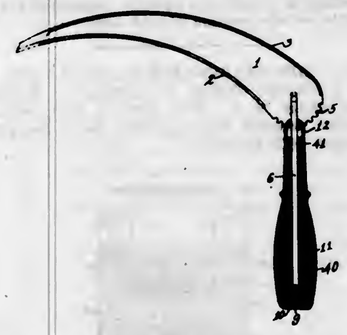
thereof over the table, a belt mounted directly below the slot in the table, said belt at its outer side having a plurality of spaced apart notches cut therein and having portions cut at an angle from the belt whereby the outer side of the belt has two angularly disposed portions leading downwardly and away from each other, said belt also being formed with a groove at the meeting edges of said angularly disposed portions, means to move the belt in the same direction as said conveying means, means to press the stem of the leaf against the belt at said grooved and notched portions thereof, and cutting means located between the belt and upper surface of the table for severing the stem from the leaf as it is carried into the machine, substantially as described.

1,387,245. LOCK. FRANCIS J. DOWLING, New York, N. Y. Filed Apr. 25, 1919. Serial No. 292,540. 12 Claims. (Cl. 70—46.)



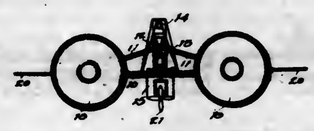
1. In a door lock, the combination of a casing having a portion projecting beyond the striking edge of the door, bolt means carried by the casing and projecting beyond the door within the projecting portion of the casing and movable inward automatically with respect to the casing into locking position, means carried by the casing to control the movement of the bolt means, a stationary plate for the door jamb, and rigid means carried by the plate and projecting therefrom perpendicular to the plane of the door for coöperation with said bolt means and the casing projection whereby relative movement between the casing, the bolt means and the plate is prevented in every direction when the door is locked.

1,387,246. GRASS-HOOK. HORATIO S. EARLE, Detroit, Mich., assignor to H. S. Earle Mfg. Co., Detroit, Mich., a Corporation of Michigan. Filed Apr. 17, 1916. Serial No. 91,582. 8 Claims. (Cl. 30—9.)



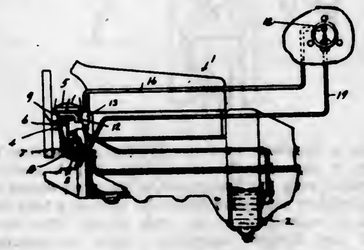
1. In a grass hook, a blade having a rounded heel provided with a serrated edge and a central aperture, a tang having a terminal portion adapted to pass through the aperture and a portion to pivotally support the blade, the terminal portion and body portion contacting opposite sides of the blade, a handle adapted to receive the tang, the handle being movable longitudinally of the tang and adapted to engage the serrations in the edge of the heel.

1,387,247. AIRSHIP. KANUTE A. ENLIND, South Nyack, N. Y. Filed July 23, 1919. Serial No. 312,691. 2 Claims. (Cl. 244—6.)



1. An airship comprising a pair of longitudinal parallel cylinders, each forming a series of independent cylindrical containers, a shaft extending axially through each of the cylinders and connecting the several containers thereof in endwise spaced apart relation and connections between the two cylinders including transverse horizontal connecting bars forming a car supporting frame and inclined brace beams, the outer ends of which are connected to said shaft between the containers, a longitudinal ridge beam to which the inner ends of the inclined brace beams are connected, and means connecting the ridge beam with the car supporting frame and forming with the ridge beam and brace beams a truss for the said frame.

1,387,248. OIL SIGHT-FEED. WESLEY J. FACKLER, Los Angeles, Calif. Filed Sept. 25, 1919. Serial No. 326,325. 2 Claims. (Cl. 184—6.)



2. In combination with a Ford engine construction an oil sight feed comprising an accessory bracket adapted to be mounted on the engine in the place of the usual timing mechanism having a crown adapted to receive the timing mechanism, a spindle rotatably mounted in the bracket for operating the timing mechanism having a beveled gear at its lower end, a companion gear meshing with the first named gear fixed on the timing shaft in the usual position of the timing arm, an oil pump cylinder positioned on the bracket having a plunger, an eccentric mounted on the spindle having a strap pivotally connected with the plunger, a suction conduit communicating between the cylinder and the fly wheel case of the engine carrying a suction valve, a discharge conduit for the cylinder having a discharging valve and communicating with an oil sight feed means, and the oil sight feed means positioned in view of a driver having a return conduit communicating with the forward end of the engine crank case.

1,387,249. TOOL FOR TWISTING TIES. HENRY B. FOULDER, Brooklyn, N. Y., assignor to J. P. Curry Mfg. Co., Inc., Stamford, Conn., a Corporation of New York. Filed Mar. 20, 1920. Serial No. 367,312. 9 Claims. (Cl. 140—119.)

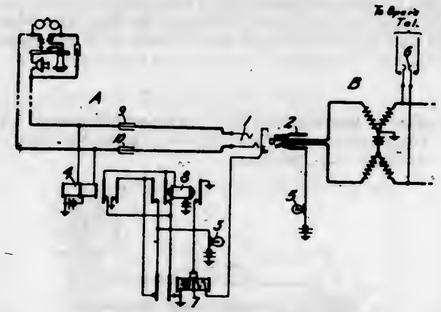
1. In a tie-twisting tool, the combination of a tie-holder adapted to retain the ends of a wire tie during the twisting of the same, members, one of which is movable relatively to the other in one direction to twist the tie, means adapted to engage against each other at a determined

point during said relative movements of said members, one of said means being adjustable in position so that the engagement of said means may occur after a greater or



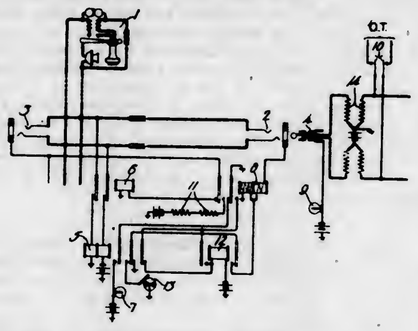
less relative movement of said members, and means operable upon the continuation of such relative movement past said point to release the ends of the tie.

1,387,250. TELEPHONE-EXCHANGE SYSTEM. CLARENCE B. FOWLER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,609. 8 Claims. (Cl. 179—73.)



8. In a telephone exchange system, a subscriber's line circuit, a signaling device therefor, a link circuit for connection with the line circuit, a signaling device therefor, subscriber controlled means for operating both devices during a connection of the link circuit with the line circuit and operator controlled means for maintaining the link circuit signaling device in an operated condition during the continuance of such connection.

1,387,251. TELEPHONE SYSTEM. CLARENCE B. FOWLER, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 16, 1919. Serial No. 345,311. 3 Claims. (Cl. 179—58.)



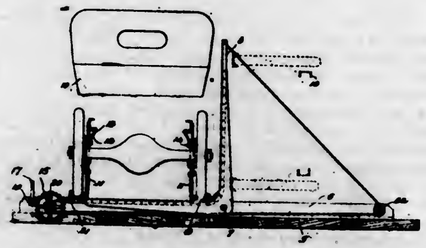
1. In a telephone system the combination with a telephone line, a cord circuit for extending said line, a signaling device individual to said cord circuit, and means individual to said telephone line responsive to an interruption of said line for operating said signaling device in one manner to give a disconnect signal, said means being responsive to a subsequent closure of said line to operate said signaling device in a different manner to give a recall signal.

1,387,252. TEST-CONNECTOR. JOHN FREDRICKS, Kings Bridge, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Feb. 14, 1918. Serial No. 217,141. 3 Claims. (Cl. 173—363.)



1. The combination with electrical apparatus having a plurality of terminals mounted in close proximity, a tube of nonconducting material having an orifice in one side thereof, a single spring member secured at one end of said tube and adapted to lie in such orifice to engage one of said terminals over which said tube is adapted to be slipped.

1,387,253. WORK AND DISPLAY STAND. PAUL HENRY GARTNER and JOHN HERMAN GARTNER, Lava Hot Springs, Idaho. Filed Feb. 27, 1920. Serial No. 361,695. 3 Claims. (Cl. 214—1.)



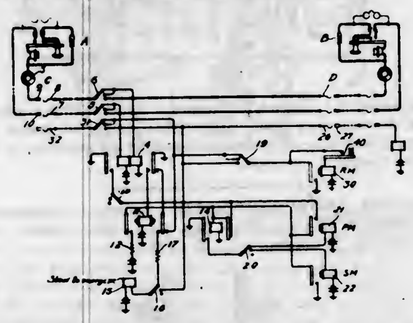
1. A work stand including a plurality of rockingly mounted bell cranks, one of the arms of each of said bell cranks resting in a normally horizontal plane, means for engaging the opposite arms of said bell cranks for rocking the same, rails extending between said horizontally disposed arms, and means attached to said rails for retaining a vehicle and entirely supporting the same irrespective of the position of said arms.

1,387,254. SIDE-BEARING FOR RAILWAY-CARS. WILLIAM A. GRIGGS, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 22, 1914, Serial No. 867,998. Renewed Nov. 18, 1916. Serial No. 132,205. 7 Claims. (Cl. 64—64.)



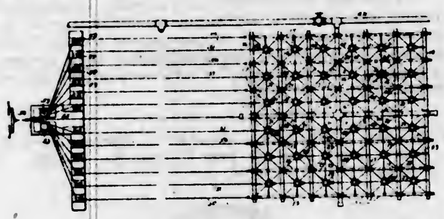
1. In a side bearing, in combination, a bracket, a roller mounted in said bracket, a base member and bolts, the base member having a longitudinal groove, the bracket having a longitudinal protuberance conformed to slide in said groove, the bracket and base member being perforated for the passage of the bolts, said perforations being of a larger diameter than the diameter of the bolts, the bracket being provided with shoulders adapted to engage the base member and limit the sliding movement of the bracket upon the base member.

1,387,255. TELEPHONE-EXCHANGE SYSTEM. CHARLES L. GOODRUM, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 31, 1919. Serial No. 348,579. 8 Claims. (Cl. 179—18.)



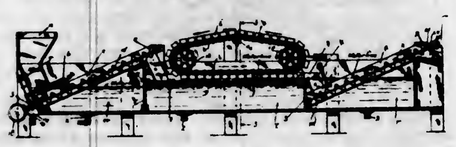
6. In a telephone system, an automatic switch having a plurality of operating magnets, a relay common to said magnets, means for associating the relay successively with said magnets, means for intermittently energizing the relay to operate said magnets, and means operable by the magnet associated with the relay to intermittently short-circuit the winding of the relay.

1,387,256. PORTABLE IRRIGATION APPARATUS. WILLIAM FLOURNOY GRIFFIN, Greenfield, Okla. Filed June 26, 1918. Serial No. 241,973. 17 Claims. (Cl. 299—55.)



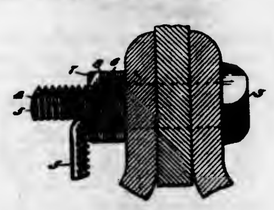
1. In a portable irrigating apparatus, a plurality of pipes having spraying outlets, spaced apart horizontally over a predetermined area, transverse horizontal means for holding the pipes in position relatively to each other, a plurality of standards disposed between the pipes, means for holding the standards in position relatively to each other, and means supported by the standards for raising the pipes and the transverse horizontal means.

1,387,257. NUT-WASHING MACHINE. FERDINAND GRONER, Hillsboro, Oreg. Filed Apr. 6, 1921. Serial No. 458,979. 17 Claims. (Cl. 146—14.)



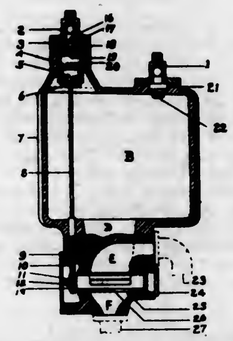
17. In a washing machine of the character described, a trough, a table in the trough, provided with apertures, a series of driven brushes supported for being moved longitudinally over said table in a plane spaced from the top thereof, means on the table top serving to provide some resistance to the movement by the brushes of the fruit deposited on the table, and a water feeder for said trough adapted to maintain the water at a level covering said table, but below the plane of the working faces of said brushes.

1,387,258. NUT-LOCK. GEORGE M. GUNNETT and OLEN GUNNETT, Frostburg, Md. Filed July 20, 1920. Serial No. 397,717. 1 Claim. (Cl. 151—29.)



A nut lock of the character described, comprising a bolt having its entire screw-threaded end portion split longitudinally with a plurality of diagonally arranged slots extending transversely therethrough forming four longitudinal sections, and a nut provided with a plurality of recesses formed in its outer face, said recesses being adapted to receive one of the bolt sections to lock the nut to said bolt.

1,387,259. GAS-COMPRESSOR. JOSEPH N. HADJISKY, Detroit, Mich. Filed June 23, 1919. Serial No. 305,971. 9 Claims. (Cl. 230—18.)

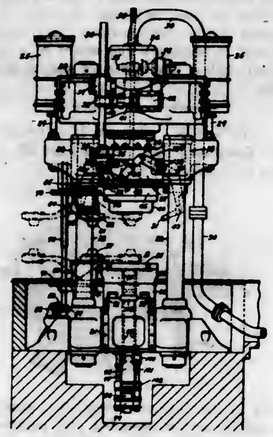


1. A gas compressor comprising a casing provided with a pair of compartments each having a gas inlet and a gas outlet, and with a liquid outlet and a liquid inlet common to both compartments, means in each compartment adapted to automatically seal the gas outlet thereof when liquid reaches a predetermined height in the compartment, and a single liquid controlling member operatively connected to each gas outlet sealing means and adapted to throw a compartment into communication with the liquid outlet when the gas outlet thereof is sealed, and to simultaneously connect the other compartment with the liquid inlet.

1,387,260. TIRE SLABBING AND PUNCHING PRESS. THOMAS WILTON HAND, Sheffield, England, assignor to Davy Brothers, Limited, Sheffield, England. Filed Apr. 15, 1920. Serial No. 374,190. 7 Claims. (Cl. 29—34.)

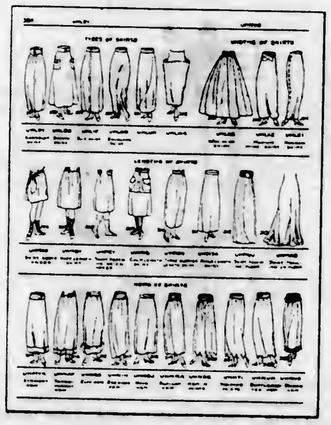
2. A tire slabbing and punching press of the kind referred to comprising a bed plate, a flattening anvil mounted thereon and arranged to receive the blank, a re-

ciprocable press-head, gripping jaws mounted upon said press-head for lifting the blank from the flattening anvil



and manipulator mechanism for operating said jaws substantially as and for the purpose set forth.

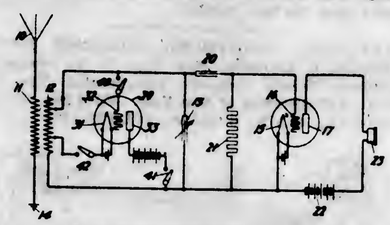
1,387,261. ILLUSTRATED CODE. LOUIS HARMUTH, South Orange, N. J., assignor to Fairchild Publishing Co., New York, N. Y., a Corporation of New York. Filed Feb. 12, 1921. Serial No. 444,516. 3 Claims. (Cl. 283—1.)



1. A code which includes the grouping of individual elements into the respective subclasses to which they relate, and in properly identifying each of these elements by a code symbol, whereby these symbols may be grouped together to identify a unitary article of a main class, said article including any desirable aggregation of individual elements.

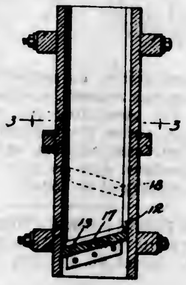
1,387,262. RECEIVING APPARATUS FOR WAVE-SIGNALING. RALPH V. L. HARTLEY, East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Sept. 30, 1915. Serial No. 53,430. 18 Claims. (Cl. 250—8.)

1. In a radio receiving system, a receiving antenna, a detector and a tarnslating device, a circuit tuned to the signaling frequency and connected between said antenna and said detector, means conductively connected to said tuned circuit to cause the production of high frequency oscillations of a frequency different from the signaling



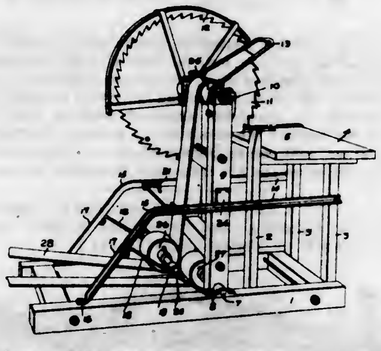
frequency for heterodyne reception, and switching means for disconnecting said conductively connected means to render said detector and translating device operative to receive telephonic messages.

1,387,263. MONUMENT-MOLD. GROVER C. HASTINGS, Memphis, Tenn. Filed Jan. 17, 1920. Serial No. 352,005. 2 Claims. (Cl. 25—121.)



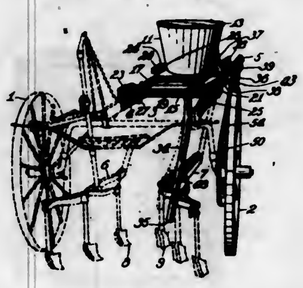
1. A concrete mold comprising a plurality of oppositely disposed side members, and means carried on two of the opposite side members for supporting end members, said oppositely disposed side members adapted to be reversed to support the end members in different positions relative to the length of the mold.

1,387,264. WOOD-SAW. RUDOLPH A. HEISEL, Luverne, Minn. Filed Dec. 14, 1920. Serial No. 430,623. 3 Claims. (Cl. 143—46.)



1. A saw of the character described, comprising a base, a table supported on the base, a saw frame pivotally mounted on the base, a pair of rails between which the saw frame is movable, and means for adjusting the rails toward and away from each other to control the frictional engagement of the rails and the saw frame.

1,387,265. FERTILIZER-FEEDER FOR CULTIVATORS. OSCAR HENTHORN, Brown township, Montgomery county, Ind. Filed Jan. 24, 1919. Serial No. 272,828. 2 Claims. (Cl. 275—9.)



1. In a fertilizer feeder for cultivators, the combination of two base beams spaced apart, a fertilizer box with an outlet, said box having arms secured to one of said beams and arms secured to the remaining one of said beams, a long journal box integral with a portion of the fertilizer box between said beams, a brace integral with the journal box and a side portion of the fertilizer box, two braces integral with the journal box and also with two of said arms respectively, a driving shaft arranged between said beams and rotatably supported in said journal box, said shaft extending beyond said beams, a sprocket wheel secured to said shaft beyond said beams, and an agitator and feeder in the fertilizer box geared to said shaft.

1,387,266. CLOTHESLINE-SUPPORT. ROBERT E. HINES, Brooklyn, N. Y., assignor of one-half to Abraham Tweel, New York, N. Y. Filed Nov. 6, 1919. Serial No. 336,010. 3 Claims. (Cl. 68—3.)



3. In a clothes line support, a hook, a bracket acting as a guide for the clothes line, an arm and a pivot pivotally holding said bracket and arm together and provided with an eye for removably hanging said bracket on said hook, said arm being adapted to be turned at right angles on said hook and to be swung on its pivot and means on the end of said arm over which the clothes line is adapted to pass.

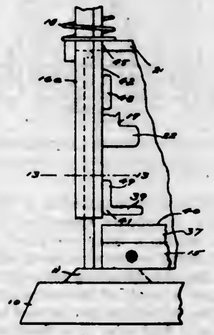
1,387,267. MAGNIFYING ATTACHMENT FOR SLIDE-RULES. CHRISTIAN HOLLE, Jr., San Diego, Calif. Filed Apr. 5, 1920. Serial No. 371,516. 1 Claim. (Cl. 88—39.)

The combination with the ordinary reading glass of a slide rule, of a transparent member flat on one side and cylindrical on the other side secured thereto by adhesion



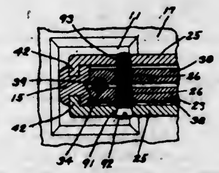
of the flat surface of the glass and provided with flat translucent ends.

1,387,268. STAPLE-BINDER. BERTHOLD JAHN and ERNEST E. KAHL, New Britain, Conn., assignors to The B. Jahn Manufacturing Company, New Britain, Conn., a Corporation. Filed June 19, 1919. Serial No. 305,431. 3 Claims. (Cl. 1—2.3.)



1. A staple binder comprising a die having a cutting edge at one end and having a reduced portion along one face for slidably supporting a staple strip, a housing connected with the said die inclosing the said reduced portion, feeding mechanism for feeding the said strip along the said reduced portion contained in the said housing, a plunger operatively supported by the said housing, having a cutting edge for coöperating with the said cutting edge on the die, and also having means for operating the said feeding mechanism, the said housing comprising a pair of side plates positioned on opposite sides of the said reduced portion, and inwardly directed ribs being provided on the inner faces of the said side plates for overhanging the said reduced portion, suitably to engage with the upper face of the said staple strip.

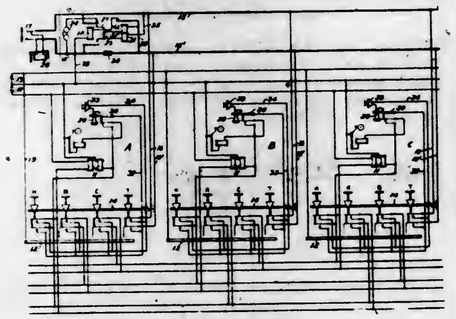
1,387,269. STAPLE-BINDER. BERTHOLD JAHN and ERNEST EMIL KAHL, New Britain, Conn., assignors to The B. Jahn Manufacturing Company, New Britain, Conn., a Corporation. Original application filed Nov. 25, 1916, Serial No. 133,357. Divided and this application filed Mar. 19, 1920. Serial No. 367,238. 9 Claims. (Cl. 1—2.3.)



7. A staple binder comprising a die member that serves as a guide way for slidably receiving a staple strip and has a die at one end for severing individual staples from the said strip, a plunger operatively mounted for coöperat-

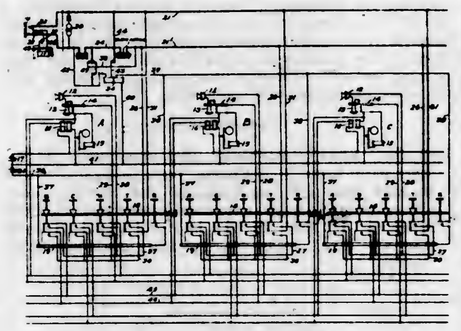
ing with the said die and having one face opposed to the said die, and the said die being in the form of a separate member that is removably mounted in the said die member.

1,387,270. SIGNALING AND TELEPHONE SYSTEM. CHARLES W. KECKLER, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 27, 1918. Serial No. 224,923. 5 Claims. (Cl. 179—40.)



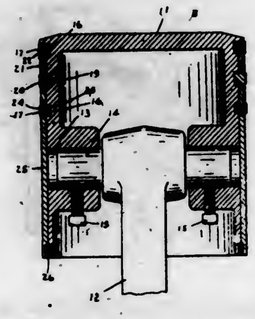
1. A telephone system comprising a line, a signal connected therewith, telephonic apparatus, a source of current, switching means, a relay energized upon the actuation of said switching means to connect said source of current with said line for operating said signal, and a second relay operating as a result of the energization of said first relay to cause the deënergization thereof and operating independently of said first relay as a result of the connection of said telephonic apparatus with said line.

1,387,271. TELEPHONE SYSTEM. CHARLES W. KECKLER, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 27, 1918. Serial No. 224,924. 17 Claims. (Cl. 179—40.)



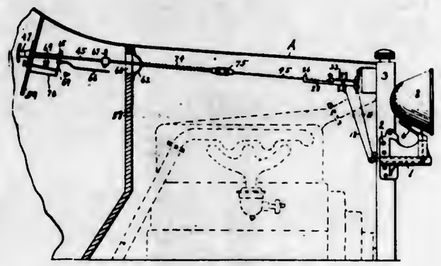
14. In a telephone system, in combination, a plurality of subscribers' stations, a trunk circuit common to said stations, a telephone set at each station for connection with said circuit, a bridging connection arranged on establishment to hold said circuit in substitution of a telephone set, means for establishing said bridging connection, means for disabling said bridging connection, and means responsive to the connection of the telephone set of a station with the trunk circuit to prevent operation of said disabling means until after establishment of said bridging connection.

1,387,272. PISTON AND PISTON-RINGS. WILLIAM OREN KEELING, Franklin, Ind. Filed Sept. 7, 1920. Serial No. 408,417. 4 Claims. (Cl. 74—109.)



1. A piston including a body portion provided with an annular groove, an expansible piston ring seatable in said groove and provided with a cam surface, and a cam member operable by said piston and cylinder by the movement of the former for expanding said expansible piston ring.

1,387,273. DIRIGIBLE HEADLIGHT. KARL A. KENDRICK, Detroit, Mich. Filed Jan. 28, 1920. Serial No. 354,580. 12 Claims. (Cl. 240—61.)

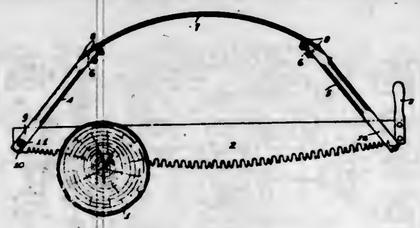


1. In combination, a lamp and a mounting therefor comprising a vertical and a horizontal axis and a support for the vertical axis, a wheel secured to the lower end of the vertical axis, a slidable and rotatable rod, a drum mounted on the rod and rotatable therewith and through which the rod is slidable, a continuous flexible connector wound on the drum and extending around the wheel on the vertical axis of the lamp whereby the lamp may be rotated on its vertical axis through unlimited arcs, and means connecting the slidable rod to the lamp whereby the lamp may be tilted on its horizontal axis when the rod is moved longitudinally.

1,387,274. CROSSCUT-SAW EQUALIZER. LAWRENCE EDWARD KILLIAN, Fillmore, Ill. Filed Feb. 10, 1921. Serial No. 443,867. 2 Claims. (Cl. 145—33.)

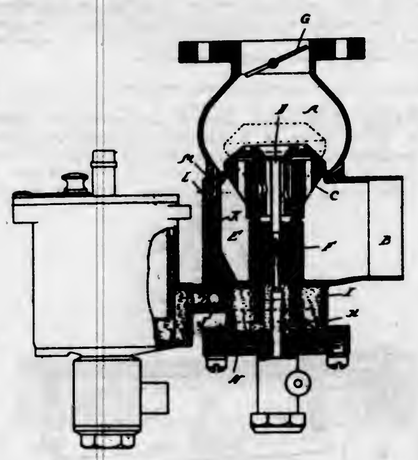
2. The combination with a saw of the character described having a handle at one end, of an equalizer independent of the saw and handle and comprising a pair of equalizer handles bifurcated to receive the saw blade, a bolt securing one bifurcated end to the saw blade, a plate

secured to the other bifurcated end and located against the toothed edge of the saw, and a spring connecting the



free ends of the equalizer handles and holding one of said equalizer handles against the saw handle.

1,387,275. CARBURETER. CHARLES H. KIRBY, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 20, 1915. Serial No. 51,583. 6 Claims. (Cl. 261—41.)

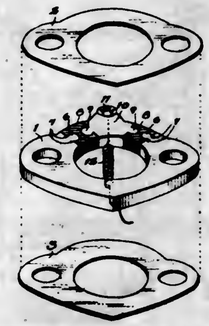


1. In a carbureter, the combination with a mixing chamber and an automatic valve controlling the air inlet thereto, of a dash-pot for retarding the opening movement of said valve, said dash pot having connection with the oil supply, a check valve for closing the oil supply when said dash-pot is in action, an oil passage rising from said dash-pot filled by the pressure in said dash-pot when said check valve is closed, and a vent passage connecting with said mixing chamber intercepted by said oil passage.

4. In a carbureter, the combination with a mixing chamber and an automatic valve controlling the air inlet thereto, of a dash-pot for retarding the opening movement of said valve, said dash pot having connection with the oil supply, a check valve for closing the oil supply when said dash-pot is in action and an oil passage rising from said dash-pot filled by the pressure in said dash-pot when said check valve is closed, said passage having communication with the mixing chamber.

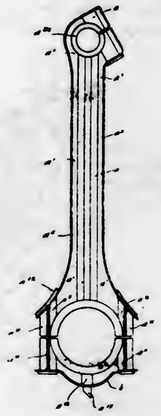
6. In a carbureter, the combination with a mixing chamber, of an automatic valve controlling the air admission to said chamber, a cylinder connected with the oil supply, a piston in said cylinder connected to said automatic valve and co-acting with said cylinder to form a dash-pot for said valve, a check valve in the oil supply closed by the rise in pressure in said cylinder due to lifting of said valve and piston, a check valve permitting the free descent of said piston and a passage connecting with said cylinder rising to above the normal level of the oil and communicating with the mixing chamber.

1,387,276. ELECTRIC VAPORIZING-GASKET. WILBER KUTSCHE, Western, Nebr. Filed Apr. 7, 1921. Serial No. 459,278. 10 Claims. (Cl. 219—38.)



1. A vaporizing gasket, composed of a body of insulating and conducting parts, and insulating pieces laid above and below when the gasket is clamped between a manifold and carbureter and a resistance element contained within the gasket.

1,387,277. CONNECTING-ROD. HEBRON B. LAYMAN, New York, N. Y., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 24, 1916. Serial No. 86,361. 12 Claims. (Cl. 74—17.)

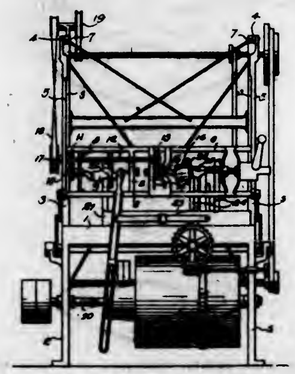


1. A sheet metal connecting rod having portions of one end portion bent inwardly to receive a portion of a cap securing means, and exteriorly applied elements secured to the end of the rod and adjacent the inwardly bent portions to coöperate therewith to receive the said cap securing means.

1,387,278. CUTTER-HEAD FOR WOODWORKING-MACHINES. CLAUDE L. LONG and CONRAD SCHMAUS, Dayton, Ohio, assignors to The Crawford, McGregor and Canby Co., Dayton, Ohio, a Corporation of Ohio. Filed Oct. 15, 1917. Serial No. 196,617. 23 Claims. (Cl. 142—15.)

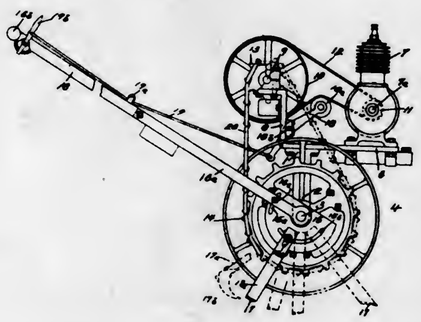
1. A wood working machine of the type embodying a work support in which the work is revolubly mounted, a

cutter head support, and means for relatively moving the work support and cutter head support in a direction substantially parallel with the axis of rotation of the work and a cutter head, characterized by a plurality of peripherally serrated plates of different diameters concentrically



arranged in progressive series to form a cone of low pitch, the face of which forms an abrupt angle with the axis of rotation of the work, said head engaging the work laterally, and a second rotary cutter of less diameter rotating in a parallel plane closely adjacent to the base of said conical head and projecting therebeyond.

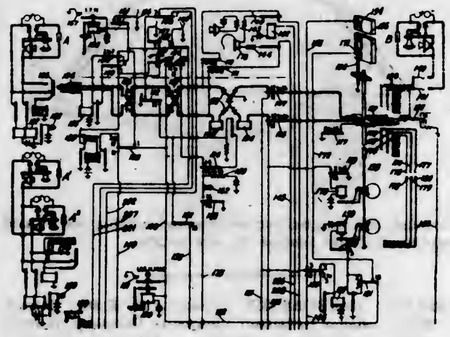
1,387,279. POWER-CULTIVATOR. MAXAMILIAN LUGER, Robbinsdale, Minn. Filed Nov. 16, 1920. Serial No. 424,348. 32 Claims. (Cl. 97—30.)



1. A straddle row self-propelled walking cultivator comprising an arched axle, bull wheels mounted thereon, a motor mounted on said axle and connected to drive said wheels, and a guiding tongue normally fixed to said axle for control by the operator walking behind the cultivator in guiding the same.

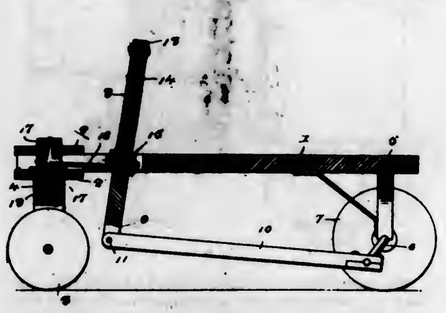
1,387,280. TELEPHONE SYSTEM. ALBEN E. LUNDELL, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 30, 1916. Serial No. 139,936. 4 Claims. (Cl. 179—27.)

1. In a telephone system, a plurality of telephone lines, a connecting circuit and an automatic switch for interconnecting said lines, an audible indicating device therefor, a register for registering the number of the called line and for determining the setting of said automatic



switch, said indicating device operating in accordance with the number set up on the register, and means operated at will under the control of the operator for repeating said number on said indicating device.

1,387,281. TOY CART. JOHN H. MCCARTHY and HENRY E. GRAFF, Lyons, N. Y., assignors, by direct and mesne assignments, to The McCarthy Novelty Company, Whitehall, N. Y., a Corporation of New York. Filed June 4, 1920. Serial No. 386,429. 1 Claim. (Cl. 208—33.)

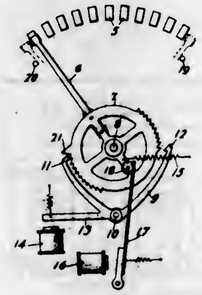


A device of the class described comprising a seat part having a forked front end, a front wheel supporting post rotatably mounted in said forked end, a rocker lever pivotally mounted between the forks of said forked end, a block connected with the rear end of the seat part, a crank shaft carried by said block, rear wheels carried by the crank shaft, a bar connecting the crank shaft with the lower end of the rocker lever, a foot bar connected with the lower end of said lever, a shaft rotatably mounted in the upper end of said lever, a handle bar connected with said shaft, a drum on said shaft, a cable connecting the drum with the front wheel supporting post, and a foot rest on said post.

1,387,282. TELEPHONE SYSTEM. JAMES L. MCQUARRIE, Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 28, 1918. Serial No. 268,623. 3 Claims. (Cl. 179—27.5.)

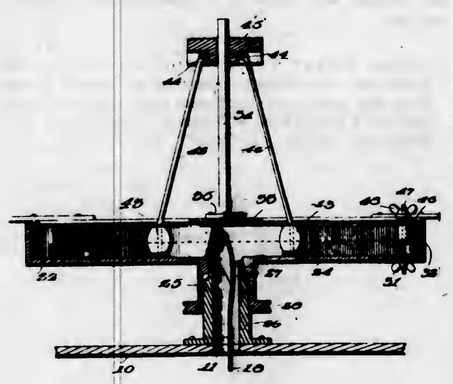
1. In an electrical switching device, a terminal bank comprising a row of equi-distantly spaced contacts, a

brush for engaging said contacts, and means operable to step said brush by equi-distant steps over the intermediate contacts of said bank, and operable when said brush is on



the contact next to the end to impart a long step to said brush whereby the latter is carried over and to a position out of engagement with the end contact, and to return said brush to a resting position on said end contact.

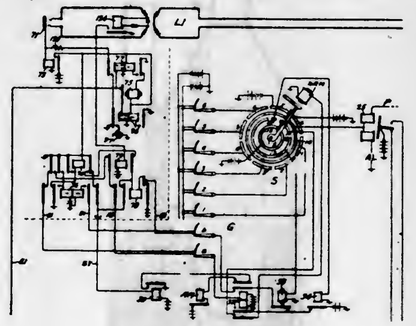
1,387,283. FILM-FEED APPARATUS FOR PROJECTION DEVICES. CLAUDE H. MCQUILLAN, Green Bay, Wis. Filed July 9, 1920. Serial No. 395,104. 5 Claims. (Cl. 88—18.7.)



1. In a device of the character described, a film feeding device including a rotatable flanged plate having a downwardly opening film feeding aperture at its center and provided with a radial slot, means adjustably held in the said slot for engaging the outer periphery of a film roll on the plate, and a cover for the plate having adjustable pressure means engaging the inner surface of the film roll.

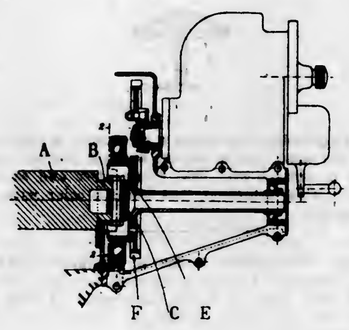
1,387,284. TELEPHONE SYSTEM. HARRY W. MACDOUGAL, East Orange, and HUGH D. MACPHERSON, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 31, 1919. Serial No. 314,503. 6 Claims. (Cl. 179—50.)

1. In a telephone system, in combination, a plurality of trunk lines and a signaling path common thereto extending between two stations, means at one station for transmitting over the signaling path code signals individual to the different trunk lines, a normally inactive switching device common to the trunk lines for determining the codes of the signals to be transmitted, and means con-



trolled by a change in condition on any one of the trunk lines for rendering the switching device active.

1,387,285. APPARATUS FOR DRIVING MAGNETOS IN CONNECTION WITH INTERNAL-COMBUSTION ENGINES. AUGUSTE MAIRE, Argenteuil, France, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Filed Sept. 25, 1917. Serial No. 193,213. 4 Claims. (Cl. 123—148.)

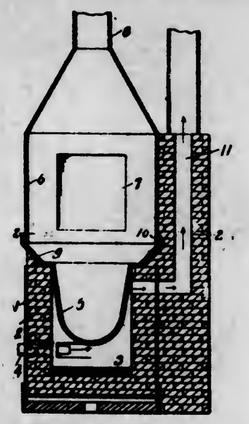


1. An igniting mechanism for explosion engines comprising in combination the motor shaft, two magnetos, two sparking plugs in each motor cylinder respectively connected to said magnetos, two toothed gears adapted to drive the two magnetos respectively, one toothed wheel meshing with said toothed gears, a sleeve concentric with said toothed wheel, secured to the same and mounted in the prolongation of the motor shaft, means for rigidly and rotatably supporting said sleeve, a bushing formed by one end of said sleeve and one elastic coupling operatively connecting said motor shaft to said bushing.

1,387,286. CYANID-FURNACE. RALPH MARSHALL MAJOR, Bloomfield, N. J., assignor to Driver-Harris Company, Harrison, N. J., a Corporation of New Jersey. Filed Feb. 17, 1920. Serial No. 359,280. 7 Claims. (Cl. 263—11.)

1. The combination of a refractory cyanid pot, a furnace for heating the same, a hood for said pot substan-

tially preventing cyanid from said pot entering the interior of said furnace, a flue for said hood and a flue for



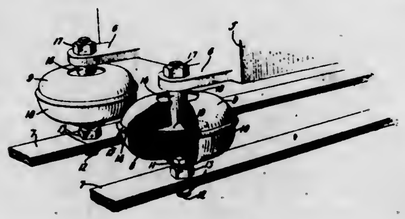
the products of combustion of said furnace independent of said hood and its flue.

1,387,287. WEATHER-INDICATOR. WILLY MARGRAF, New York, N. Y. Filed June 26, 1919, Serial No. 306,865. Renewed Apr. 25, 1921. Serial No. 464,259. 3 Claims. (Cl. 23—3.)



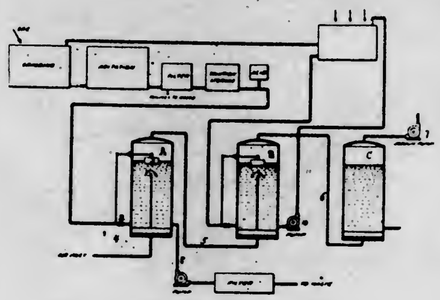
1. A hygroscope comprising a receptacle, a fabric piece closing the same, and absorbent material within said receptacle in contact with said fabric piece and saturated with a chemical substance that changes color with varying moisture.

1,387,288. SUPPORT. HARRY R. MENEFEE, Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Dec. 29, 1919. Serial No. 348,230. 1 Claim. (Cl. 267—63.)



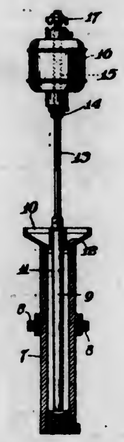
An apparatus support comprising a substantially spherical casing, a body of resilient material inclosed therein, an attachment lug provided at one end with a flange portion centrally located in said body of resilient material and extending through a suitable opening in the casing, and a second attachment lug rigidly secured to the casing in alinement with said first lug and perpendicular to the plane of said flange portion.

1,387,289. CYANIDING PROCESS. LOUIS D. MILLS, San Francisco, Calif., and THOMAS B. CROWE, Victor, Colo., assignors to The Merrill Company, San Francisco, Calif., a Corporation of California. Filed Mar. 21, 1918. Serial No. 223,694. 3 Claims. (Cl. 75—185.)



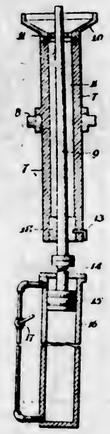
1. A cyaniding process comprising dissolving metal in cyanid solution, adding acid to said solution to generate hydrocyanic acid gas, connecting the surface of the solution with an alkali absorbent of cyanogen by a connection which excludes the atmosphere, admitting air to the bottom of the solution, establishing beyond said absorbent a partial vacuum to draw the air through said solution to pick up the hydrocyanic acid gas therefrom and through said absorbent to absorb said hydrocyanic acid gas.

1,387,290. BILLET AND METHOD AND MEANS FOR CASTING THE SAME. CHARLES S. MORSE, Roland Park, Md., assignor to Baltimore Tube Company, Incorporated, a Corporation of Virginia. Filed May 2, 1919. Serial No. 294,154. 5 Claims. (Cl. 22—216.)



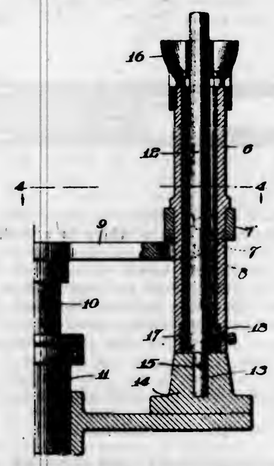
1. The method of casting a hollow billet which consists in introducing the molten metal into the space formed between coöperating separable metal mold and core elements having approximately parallel walls and, simultaneously with the pouring, causing a relative and continuous separating movement between the core and the mold and casting.

1,387,291. METHOD AND MEANS FOR BILLET-CASTING. CHARLES S. MORSE, Roland Park, Md., assignor to Baltimore Tube Company, Incorporated, a Corporation of Virginia. Filed June 8, 1920. Serial No. 387,348. 9 Claims. (Cl. 22—200.)



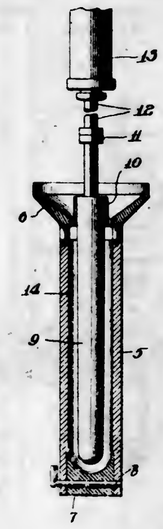
1. The method of casting hollow billets which consists in introducing the molten metal into the space formed between a mold element and a separable tapered core element and withdrawing the core element from the mold element while pouring, the degree of taper of the core element and the speed of its withdrawal being dependent upon the degree of contraction of the metal of the casting in the process of cooling.

1,387,292. METHOD AND MEANS FOR BILLET-CASTING. CHARLES S. MORSE, Roland Park, Md., assignor to Baltimore Tube Company, Incorporated, a Corporation of Virginia. Filed June 30, 1920. Serial No. 392,993. 7 Claims. (Cl. 22—75.)



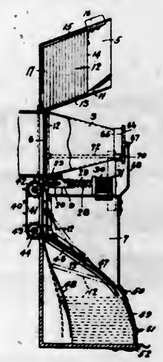
1. The method of casting hollow billets, which consists in introducing the molten metal into the space formed between a mold element and a separable core element and moving a mold element relatively to the core element to cause the withdrawal of the core from the mold during the pouring operation.

1,387,293. METHOD AND MEANS FOR BILLET-CASTING. CHARLES S. MORSE, Roland Park, Md., assignor to Baltimore Tube Company, Incorporated, a Corporation of Virginia. Filed July 26, 1920. Serial No. 399,152. 4 Claims. (Cl. 22—140.)



1. The method of casting hollow billets which consists in introducing the molten metal into the space formed between a mold element and a core, the core tapering downwardly toward the bottom of the mold element, and causing relative continuous movement between the mold element and the core to cause the withdrawal of the core from the mold, during the pouring operation, said movement being timed so that the lower end of the core shall be maintained below the level of the molten metal until the pouring has been completed.

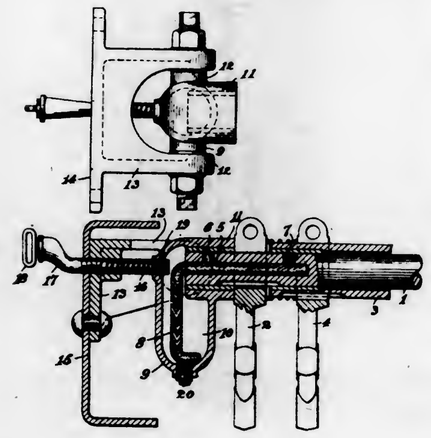
1,387,294. EXHIBITING APPARATUS. THOMAS J. MOSURE, Niles, Ohio. Filed Mar. 19, 1920. Serial No. 367,145. 7 Claims. (Cl. 40—78.)



1. An exhibiting device comprising a magazine for holding transparent slides or the like, a display space below the said magazine, an escapement device adapted to reciprocate horizontally and rectilinearly across the path of

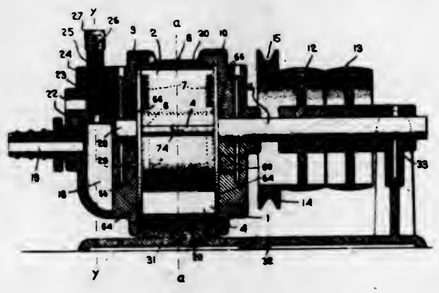
movement of the said slides below the said display space and automatically operable means for reciprocating the said escapement device at predetermined time intervals.

1,387,295. VEHICLE-BRACKET LUBRICATOR. CORNELIUS T. MYERS, Avenel, N. J. Filed Aug. 23, 1919. Serial No. 319,513. 9 Claims. (Cl. 64—27.)



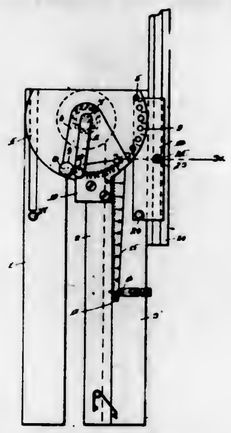
1. A fitting for a vehicle frame adapted to support a reciprocating surface friction member, comprising, integrally associated, a bearing, a load supporting or attaching member and intermediate connections forming a lubricant supply-reservoir, a filling opening for said reservoir and a closure therefor, means to convey a controlled supply of lubricant from the reservoir to bearing including a guide terminating in a position accessible from the filler opening.

1,387,296. ROTARY PUMP. ALBERT H. NELSON, Boston, Mass., assignor to Babcock-Davis Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 9, 1915, Serial No. 20,307. Renewed Dec. 2, 1919. Serial No. 342,016. 4 Claims. (Cl. 230—30.)



1. In a blower, the combination with a rotor-receiving chamber having inlet and outlet ports, of a rotor therein having radially-extending blades, and means to rotate the rotor, the peripheral and end walls of said rotor-receiving chamber being freely rotatable.

1,387,297. PROTRACTOR. JOHN NEUMAIER, Dayton, Ohio. Filed June 6, 1919. Serial No. 302,315. 6 Claims. (Cl. 33—97.)



1. A protractor having two arms thereon pivoted on a center and extending normally in the same direction therefrom, the outside of each arm being parallel to the outside of the other arm when in zero position, one of said arms having its inner edge extending radially from the center and the other arm having its inner edge normally parallel to and spaced apart therefrom with an open space between them, an extension on one of said arms extending in the opposite direction, said arms being adapted to measure angles on one side of the common pivot of the arms, the extension being used to measure the same angle at the other side of the common pivot of the arms.

1,387,298. FOUNTAIN-PEN BLOTTING ATTACHMENT. BLAINE W. ODOM, Dallas, Tex. Filed Feb. 14, 1921. Serial No. 444,741. 2 Claims. (Cl. 120—42.)

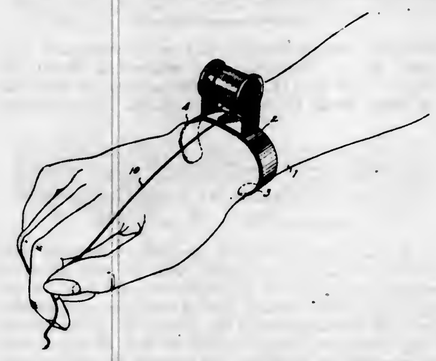


1. A fountain pen attachment comprising a guard member in the outer end of which is a socket, a cap mounted on and removable from said guard member, a plug secured in the said socket of the guard member, a stem having an enlargement at one end secured in the said plug and also having its outer end upset, a blotting roller mounted on and revoluble about the said stem, a washer loosely surrounding the stem and interposed between the base of the roller and the said plug, and a washer loosely mounted on the stem and interposed between the outer end of the roller and the upset portion of the stem.

1,387,299. THREAD GUIDE AND SUPPORT. JOHN W. OLIVER, New York, N. Y. Filed Oct. 26, 1920. Serial No. 419,728. 2 Claims. (Cl. 242—140.)

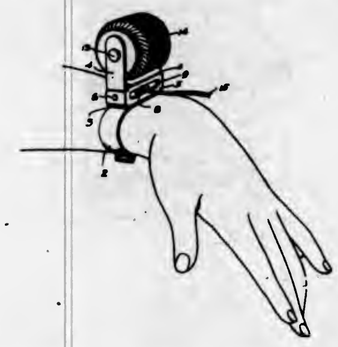
1. A thread guide and support comprising a sheet of resilient material adapted to embrace the wrist of an operator, a supporting member of sheet metal attached to the rear face thereof and adapted to support a spool

of thread thereon, and a channel member formed integrally with the supporting member and having therein



a long, narrow passage through which the thread is adapted to extend and by which it is frictionally engaged to prevent unreeling.

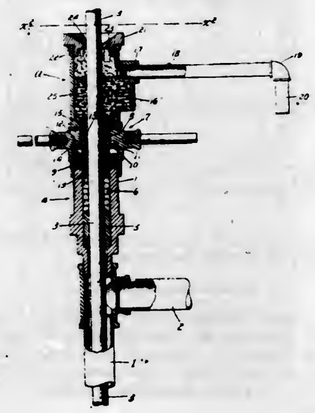
1,387,300. THREAD GUIDE AND SUPPORT. JOHN W. OLIVER, New York, N. Y., and HENRY BRUCKER, Newark, N. J. Filed Nov. 17, 1920. Serial No. 424,645. 2 Claims. (Cl. 242—136.)



1. A thread guide and support comprising a U-shaped integral body portion, a removable shaft extending between the outer ends of the legs of the U and adapted to receive a spool of thread, resilient gripping members attached to the lower face of the base of the U, a slotted plate disposed across between the leg members adjacent the base of the U frame, flanges on said slotted plate attached to the leg members, integral overturned flange portions on the upper and lower edges of the plate adjacent the slot and forming a channel, and a washer located in said channel and adapted loosely to slide therein and guide the thread.

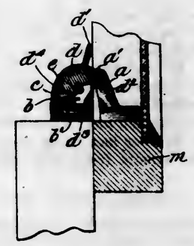
1,387,301. LUBRICATED STUFFING-BOX. EVAN E. OSBORNE, Los Angeles, Calif. Filed Dec. 23, 1916. Serial No. 138,673. 17 Claims. (Cl. 286—17.)

1. A vertical rod having a stuffing box provided at its upper end with a bowl that surrounds the rod and is adapted to hold liquid lubricants thereon; means at the upper end of the bowl for collecting leakage above and outside of the bowl and for directing the leakage thereinto; a drainage pipe leading from the bowl near the top thereof and loose packing material in said bowl for the purpose of stripping the oil from the polished rod at the upper part of the rod so as to allow the same to be drawn off and yet to leave an accumulation of oil



in the bowl without allowing the polished rod to be covered with oil where exposed to the outside.

1,387,302. SAFETY-LOCK FOR WINDOWS AND THE LIKE. PETER PAGE, Pawtucket, R. I. Filed Dec. 23, 1918. Serial No. 268,053. 6 Claims. (Cl. 292—198.)

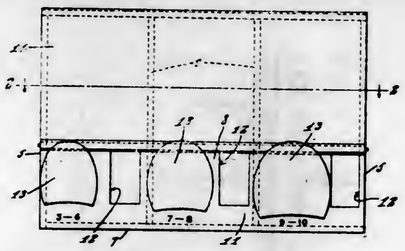


1. The combination of two frames arranged in juxtaposition to slide by each other in parallel planes, a hook member secured to one frame close to the plane dividing the two frames, a latch pivotally mounted on the other frame and provided with two angularly disposed hook engaging portions one of which when projected beyond the dividing plane acts to lock both frames against sliding movement, the other of which when projected beyond the dividing plane acts to restore the latch automatically to locking position when either sash is moved by the other, and a spring engaging said latch to hold the same yieldingly on either side of its dead center of pivotal movement, substantially as described.

1,387,303. COBBLER'S CABINET. MARTIN PANIAN, Eveleth, Minn. Filed Mar. 19, 1921. Serial No. 453,657. 1 Claim. (Cl. 211—7.)

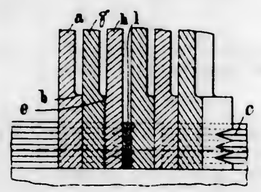
A cabinet comprising end walls and a rear wall, a bottom member having connection with the end and rear walls, the bottom member extending beyond the front portion of

the end walls to provide a compartment, partitioning members for dividing the cabinet and compartment into



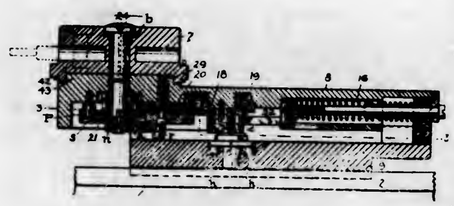
sections, a movable wall forming the front of the cabinet, and a front wall for the compartment.

1,387,304. TURBINE-BLADE ATTACHMENT. CHARLES ALGERNON PARSONS, STANLEY SMITH COOK, and LOUIS MORTIMER DOUGLAS, Newcastle-upon-Tyne, England; said Cook and said Douglas assignors to said Parsons. Filed June 16, 1920. Serial No. 389,428. 2 Claims. (Cl. 253—77.)



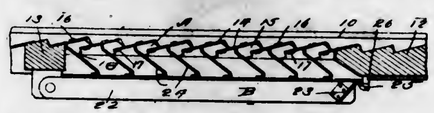
1. In a turbine, the combination of a blade carrier having a groove on the sides of which projections are provided which are cut away at one point, members including blades and packing pieces adapted to be inserted through the space left by the cut-away part and interlocking with the said projections and including also a separate packing piece calked into position, a blade-carrying member adjacent said packing piece interlocking with a portion of the adjoining member located on the side of said blade-carrying member remote from said packing piece, as set forth.

1,387,305. TURRET-LATHE. FREDERICK W. PARSONS, Cleveland, Ohio. Filed Jan. 7, 1920. Serial No. 349,926. 6 Claims. (Cl. 29—49.)



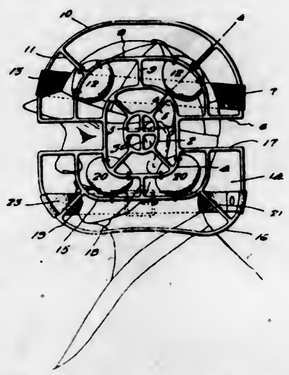
2. In a lathe, a rotatable turret and a fixed base and a support for the turret slidable on said base, a bolt and a tightening nut thereon adapted to clamp the turret on said support and said nut having a lateral arm with a roller at its end, a rotatable cam member fixed on said base having opposite inclined surfaces with a space between adapted to receive said roller and rotate said nut alternately in opposite directions, adjusting screws to rotate and fix said cam member in different position, and means to move said turret support back and forth and thus bring said roller into engagement with said inclined surfaces and release and lock said bolt.

1,387,306. GRAIN-SIEVE. DANIEL F. PEHRSSON, Buffalo, N. D. Substitute for application Serial No. 97,112, filed May 12, 1916. This application filed Dec. 2, 1919. Serial No. 342,080. 3 Claims. (Cl. 130—19.)



1. A grain sieve having a plurality of inclined grain passages through it, the lower wall of each of which passages terminates at its discharge end short of the upper wall of the passage, a stop plate for each passage across the discharge end of the passage in spaced relation to the discharge end of the bottom wall of the passage and extending at its lower end beneath the bottom wall of its corresponding passage and a movable support for the stop plates by which they are simultaneously movable into and out of their respective positions.

1,387,307. MASK. HERMAN H. POHLMANN, St. Louis, Mo. Filed Nov. 16, 1920. Serial No. 424,468. 1 Claim. (Cl. 2—193.)



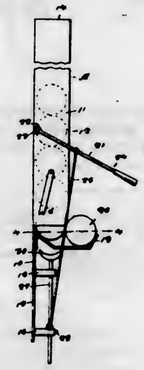
In a mask designed to be arranged on the side of the face and head of a batter of a baseball team, a main frame comprising inner and outer elliptical wires, right angular braces for the inner wire, angular braces between the inner and outer wires, upper and lower auxiliary frames connected to the main frame and constructed of wires, the upper auxiliary frame having inner and outer arched wires, arched brace wires connecting the same and securing the auxiliary frame to the main frame and arranging the said upper auxiliary frame at an inward arch with respect to the main frame, spaced inwardly projecting pads in the upper auxiliary frame, a flexible band secured to the ends of the said auxiliary frame, the lower auxiliary frame comprising inner and outer members which have their side portions arranged at approximately the same curvature as the sides of the main frame, and their lower portions arched toward the main frame, brace wires connecting the inner and outer braces of the lower auxiliary frame together and to the main frame, and said brace wires being arched to direct the lower auxiliary frame inwardly of the main frame, inwardly projected pads on the lower auxiliary frame, straps secured to the sides of the lower auxiliary frame, and adjustable means for connecting the straps.

1,387,308. ATTACHMENT FOR FIREARMS. TRUMAN W. POST, New York, N. Y., assignor to Arms Products Company, New York, N. Y., a Corporation of New York. Filed July 20, 1918. Serial No. 245,831. 3 Claims. (Cl. 89—1.)



1. In ordnance, a portable firearm, a body harness for carrying the same, and a ground sprag forming, with the body harness, a support for the firearm in firing position.

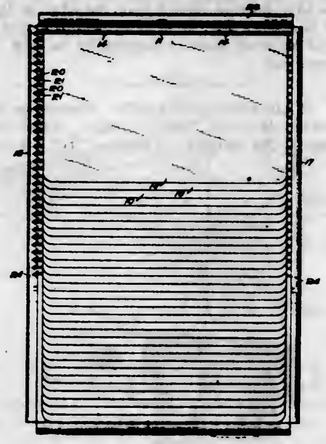
1,387,309. CAN-RACK. LEONARD L. PRATER, Denver, Colo. Filed July 22, 1920. Serial No. 398,283. 6 Claims. (Cl. 214—17.)



1. In combination, a receptacle adapted to receive a plurality of cans arranged in superimposed relation, said receptacle including front and rear walls, bracket arms projecting from the rear wall of the receptacle at a point beneath the front wall thereof, and means mounted on said receptacle for refilling the latter, and operable to move the cans within the rack a predetermined distance.

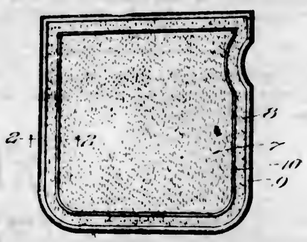
1,387,310. FILING AND INDEXING EQUIPMENT. JOHN T. QUIGLEY, Boston, Mass., assignor to Costmeter Company, Boston, Mass., a Corporation of Massachusetts. Filed June 5, 1919. Serial No. 301,886. 5 Claims. (Cl. 129—16.)

1. A filing and indexing equipment comprising, in combination, a plurality of sheets having spaced, overlapped margins, a plurality of sheet-holders, and a pair of guides provided with channels in which the ends of said sheet-holders are received and mounted to turn about their respective axes, said sheet-holders and guides having coöperating means normally locking said sheet-holders



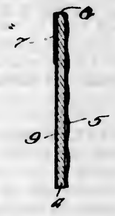
in said guides but adapted to unlock and permit said sheet-holders to be removed by rotation about their axes to predetermined positions.

1,387,311. DOOR-PANEL AND THE LIKE. JOSEPH REGENSTEIN, Chicago, Ill. Filed Oct. 30, 1920. Serial No. 420,682. 5 Claims. (Cl. 154—46.)



1. As a new article of manufacture, a door panel or the like comprising a sheet of body material and a sheet of waterproofed fabric and a sheet of waterproof paper applied to the opposite faces thereof, and a distinctive design embossed around the border of the completed panel and through all of the thicknesses thereof, substantially as described.

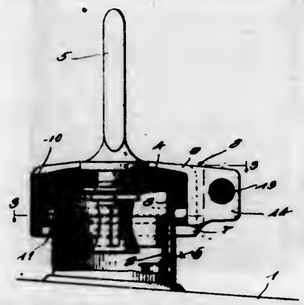
1,387,312. DOOR-PANEL AND THE LIKE. JOSEPH REGENSTEIN, Chicago, Ill. Filed Oct. 30, 1920. Serial No. 420,684. 2 Claims. (Cl. 154—46.)



1. As a new article of manufacture, a door panel comprising a sheet of non-metallic composition body material

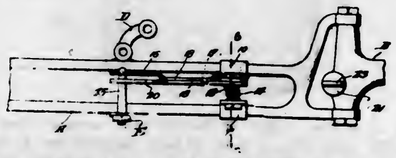
cut to the appropriate size and contour, a sheet of water proof material applied to the back face thereof, and a sheet of fabric extending over the front face of the panel having its edge portion lapped over the edge of the body sheet and laid down and secured to the back face of the water proof backing sheet, substantially as and for the purpose described.

1,387,313. RADIATOR-CAP LOCK. SHERWOOD P. RICE and EDWARD MICHELL, Detroit, Mich. Filed July 26, 1920. Serial No. 398,864. 3 Claims. (Cl. 70—90.)



2. The combination with an automobile radiator including a filling-neck, a closing cap for the latter, and a temperature gage connected to and carried by said cap; of a jacket surrounding said neck and provided with a laterally extending lug, a cup-shaped housing placed in an inverted position on and surrounding the aforesaid cap, said housing having an opening formed in its closed side to permit passage therethrough of said gage, said housing being also provided with a shoulder for coaction with the aforesaid lug.

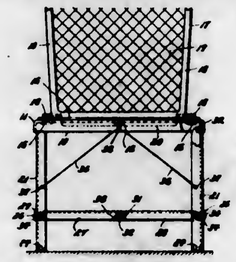
1,387,314. AUTOMOBILE-LOCK. FRANKLIN E. ROUSH, Dayton, Ohio. Filed July 10, 1920. Serial No. 395,200. 2 Claims. (Cl. 70—90.)



1. An automobile locking device comprising a pair of clamping plates engaged upon the front axle of an automobile, a bolt passing through and securing said plates together, a bar pivotally engaged upon said bolt beneath the upper of said plates and having its free end formed with a longitudinal slot, a second bar pivoted upon the first named bar intermediate the ends thereof and having one end notched for engagement with the head of said bolt, the other end of said second named bar being provided with a longitudinal slot adapted to register with the first named slot, a rod secured to one of the steering spindle arms and formed with an ear disposable between the free ends of said first and second named bars, said ear being provided with a hole registering with the slots in said bars for the passage of a shackle of a padlock.

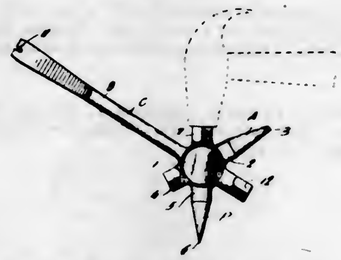
1,387,315. FOLDING SEAT. RUDOLPH G. SCHAUB, Woodbury, N. J. Filed Jan. 23, 1920. Serial No. 353,476. 2 Claims. (Cl. 155—148.)

2. In a chair, the combination of a rectangular open frame of angle iron, hinges having members fixed to the pendent portions of opposite bars of the frame, and pairs of legs fixed with respect to the other members of the hinges, the legs of each pair being connected together, and being arranged when not in use to be nested in the angle iron frame, with a seat superimposed on the frame and having pendent turn buttons detachably arranged with



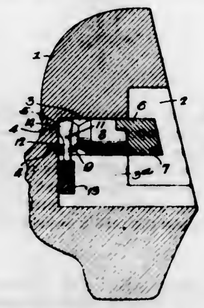
the horizontal portions of the frame bars, and a back hinged to the seat and having a pendent portion adapted to bear against the frame to maintain the back in working position.

1,387,316. COMBINATION-TOOL. JAMES JOSEPH SCHMIDT, Rahway, N. J. Filed May 26, 1920. Serial No. 384,376. 2 Claims. (Cl. 7—17.)



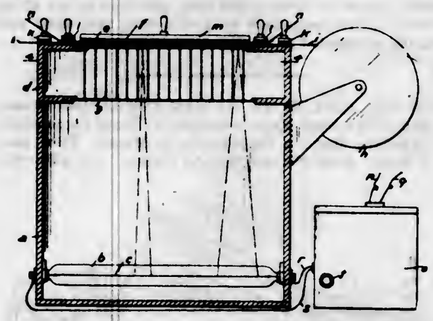
1. A combination tool comprising a body portion, and a plurality of tool shanks radiating therefrom at equal distances from each other, and a butt disposed on said body portion opposite each shank.

1,387,317. DOLL. HARRY E. SCHOENHUT, Philadelphia, Pa., assignor to The A. Schoenhut Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 26, 1920. Serial No. 368,863. 4 Claims. (Cl. 46—40.)



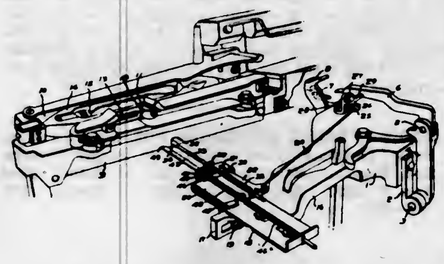
1. The combination of a doll's head having a recess at the back, a socket extending from said recess toward the front of the head, said socket having an eye opening at its forward end; an eye section having a ball portion at one end, said ball portion being located in the socket; and a lid between the ball portion and the socket and adapted to move so as to close the eye opening when the doll is in a recumbent position.

1,387,318. PROCESS AND DEVICE FOR ASCERTAINING THE CORRECT EXPOSURE FOR COPYING ROWS OF PICTURES ON FILM-BANDS. ARTHUR SCHULZE, Berlin, Germany, assignor of one-half to Deutsche Lichtbild-Gesellschaft E. V., Berlin, Germany. Filed Jan. 20, 1920. Serial No. 352,848. 5 Claims. (Cl. 95—10.)



1. A process for producing trial pictures for ascertaining the correct time of exposures for copying a row of pictures on a film band consisting in exposing an unexposed positive film through a negative band film bearing a plurality of pictures side by side to different quantities of light for the different pictures for an interval of time.

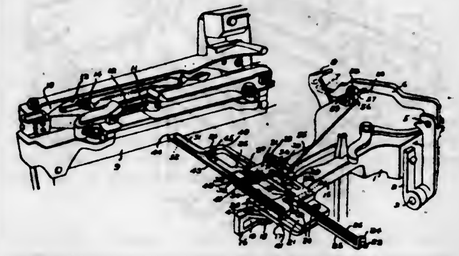
1,387,319. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 7, 1919. Serial No. 328,975. 18 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler stand, a feeler carrier mounted on the stand for movement toward and from the front of the loom, a lever pivotally mounted on and movable with the feeler carrier, a feeler carried by the lever, a spring for holding it normally in rear position, a feeler actuator movable frontwardly on each detecting beat, an arm extending laterally from the lever and through which extends the feeler actuator, a shoulder or abutment on the feeler actuator for engaging the arm as the feeler actuator moves frontwardly and acting through said arm to move the feeler carrier frontwardly and to turn the lever in a direction longitudinally of the shuttle when the feeler fails to be held from said movement by filling in the shuttle on a detecting beat.

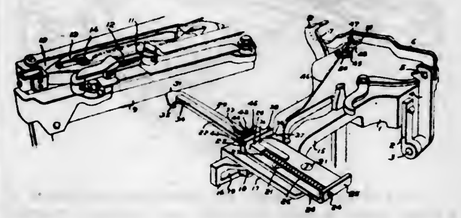
1,387,320. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 7, 1919. Serial No. 328,976. 11 Claims. (Cl. 139—85.)

1. In a feeler mechanism for looms, a feeler carrier movable toward and from the front of the loom on each detecting beat, a feeler relieving member connected to the feeler carrier and adapted to be engaged by a surface on the lay for moving the feeler carrier frontwardly on each detecting beat, a cam member mounted for lateral movement on the feeler carrier, a spring acting to move the cam member laterally on the feeler carrier, a feeler



mounted on the cam member and adapted to be held from movement laterally of the feeler carrier by engagement of the filling until the latter is substantially exhausted, and means actuated by bodily movement of the feeler in a direction longitudinally of the shuttle to effect replenishment of filling.

1,387,321. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Oct. 7, 1919. Serial No. 328,977. 7 Claims. (Cl. 139—85.)

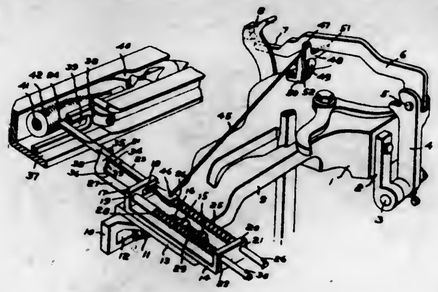


1. In a feeler mechanism for looms, a feeler guide mounted for movement toward and from the front of the loom, a feeler lying alongside the feeler guide, and mounted for movement toward and from the front of the loom and in a direction longitudinally of the shuttle but held from such longitudinal movement by engagement with the filling on a detecting beat until substantial exhaustion thereof, a coöperating cam and recess, one on the feeler and the other on the feeler guide for causing frontward movement of the feeler to move the guide frontwardly without relative frontward movement of the two when a working supply of filling is present on a detecting beat and for causing the feeler to move laterally away from the feeler guide when filling is substantially exhausted, a stop for limiting the movement of the feeler away from the feeler guide and yielding means tending to hold the cam and recess in engagement.

1,387,322. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 1, 1920. Serial No. 362,379. 11 Claims. (Cl. 139—85.)

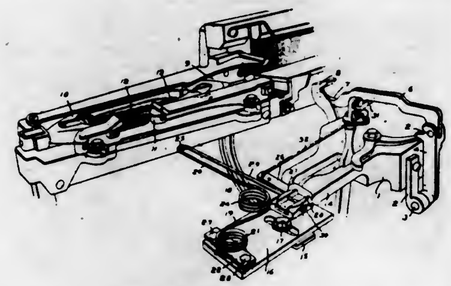
1. In a feeler mechanism for looms, the combination of a feeler and a deflector each mounted for movement toward and from the front of the loom, one of said members having an inclined surface which is engaged by the other member and tends to move the feeler laterally under the frontward pressure against the feeler on a detecting beat to effect replenishment of filling and is prevented from

effecting such lateral movement by engagement of the feeler with the filling until substantial exhaustion thereof,



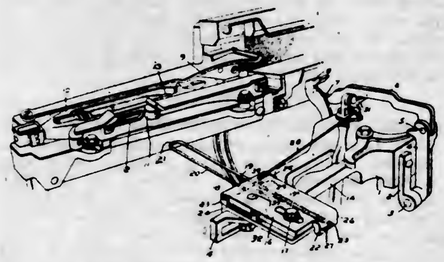
and means connected to the feeler for effecting replenishment of filling.

1,387,323. **FEELER MECHANISM FOR LOOMS.** ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 8, 1920. Serial No. 364,157. 15 Claims. (Cl. 139—85.)



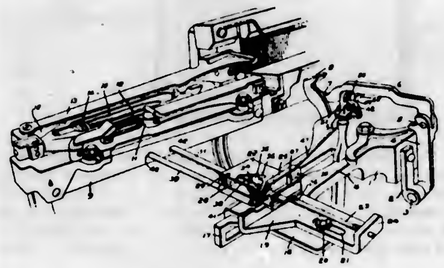
1. In a feeler mechanism for looms, the combination of a feeler stand, a feeler operated lever pivotally mounted upon said stand, means for effecting replenishment of filling when the lever is turned upon its pivot, and an inherently resilient feeler having a portion secured in fixed position to said stand and provided with a toothed portion to engage a surface within the shuttle on each detecting beat and with a portion slidably secured to said lever.

1,387,324. **FEELER MECHANISM FOR LOOMS.** ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 8, 1920. Serial No. 364,158. 12 Claims. (Cl. 139—85.)



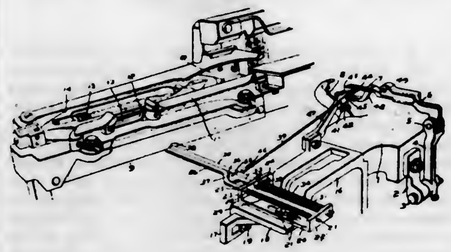
1. In a feeler mechanism for looms, a feeler stand, a feeler slidably mounted thereon and having a toothed portion positioned to engage a surface within the shuttle upon each detecting beat, resilient means for normally holding said feeler in its extended position, means operable by a lateral movement of said feeler for effecting replenishment of filling, said feeler having an integral resilient portion arranged to exert a lateral force upon the feeler to operate said replenishment effecting means upon movement of the feeler toward the front of the loom, and held by the filling against lateral movement on a detecting beat until substantial exhaustion of the filling occurs.

1,387,325. **FEELER MECHANISM FOR LOOMS.** ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 8, 1920. Serial No. 364,159. 11 Claims. (Cl. 139—85.)



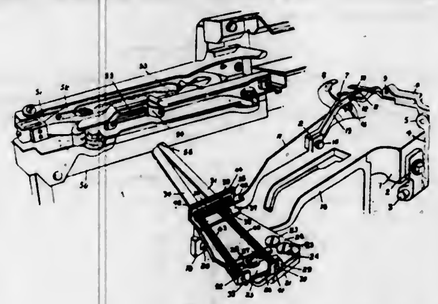
1. A feeler mechanism, comprising, in combination, a feeler and a feeler actuator both of which engage a surface within the shuttle on a detecting beat, a laterally movable slide carrying the feeler, means connecting the feeler actuator and slide tending to cause lateral movement of the slide by the frontward push upon the actuator and held from effecting such movement by engagement of the feeler with the filling on a detecting beat until the filling is substantially exhausted, and means for effecting replenishment of filling when the slide is moved laterally on a detecting beat.

1,387,326. **FEELER MECHANISM FOR LOOMS.** ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 7, 1920. Serial No. 372,006. 9 Claims. (Cl. 139—85.)



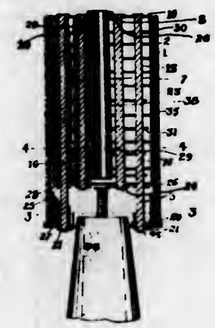
1. In a feeler mechanism for looms, the combination of a feeler having a cam surface, a second feeler movable longitudinally of the shuttle and provided with teeth positioned to engage the filling upon a detecting beat and to be held thereby from such longitudinal movement until substantial exhaustion occurs, a deflector positioned to be moved longitudinally of the shuttle by said cam surface upon a detecting beat, and constructed to exert a displacing force longitudinally of the shuttle upon the second feeler, and means operable by said longitudinal movement for replenishing filling.

1,387,327. **FEELER MECHANISM FOR LOOMS.** ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed July 31, 1920. Serial No. 400,451. 14 Claims. (Cl. 139—85.)



1. In a feeler mechanism for looms, the combination of a feeler that is mounted to enter the shuttle in a direction inclined to the longitudinal axis of the filling carrier or bobbin and is held from movement longitudinally along the filling carrier or bobbin on a detecting beat by engagement with the filling until substantial exhaustion thereof, a feeler displacer which is mounted to enter the shuttle in a direction inclined to the longitudinal axis of the shuttle and which tends to slide longitudinally of the filling carrier or bobbin under the frontward pressure on each detecting beat but is held from such movement by the feeler until the filling is substantially exhausted and then acts against the feeler to insure its movement longitudinally of the shuttle, and means for replenishing the filling when the feeler is so moved.

1,387,328. **AIR-PREHEATER FOR EXPLOSIVE-ENGINES.** SAMUEL S. STALEY and MARK W. COLLET, Philadelphia, Pa. Filed Jan. 7, 1918. Serial No. 210,628. 4 Claims. (Cl. 126—67.)



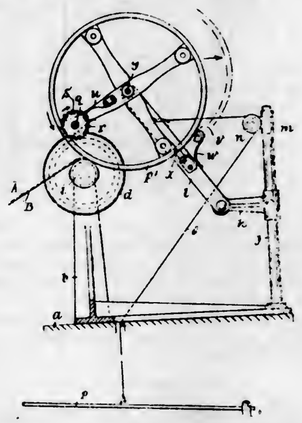
1. In an air preheater for internal combustion engines an air heating chamber, a fire box, and its chimney, said firebox and chimney together inclosing the air heating chamber at the bottom and the sides, the walls between the firebox and the air heating chamber and the walls between the chimney and the air heating chamber being of heat conducting material, a series of baffles in the air heating chamber, each alternate baffle being slightly spaced from, and fitting snugly to the wall separating the air chamber from the chimney, a draw off pipe for the heated air, leading from the air heating chamber to the outside of the heater, and having its intake mouth near the wall between the air chamber and the firebox.

1,387,329. **DRILL-PARALLELER.** WALTER STARK, Auburn, Calif. Filed May 6, 1920. Serial No. 379,416. 7 Claims. (Cl. 32—10.)



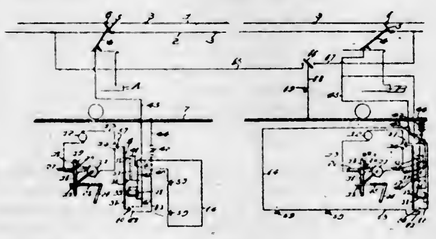
1. A device for drilling holes in parallel relation comprising an anchorage portion, a plurality of horizontally swinging joints carried by the anchorage portion, a vertically swinging portion carried by the horizontally swinging joints, and means carried by the vertically swinging portion for engaging a tool.

1,387,330. **MEANS FOR MARKING WOUND STRIP MATERIAL.** WILLIAM STRITTMATTER, North Bergen, N. J. Filed Feb. 19, 1921. Serial No. 446,496. 5 Claims. (Cl. 101—74.)



1. In combination, means to wind up strip material on a definite axis and mechanism, normally urged toward but movable away from said axis, for marketing the material at predetermined intervals lengthwise thereof including a rotary prime mover arranged to bear peripherally thereof on the periphery of and be rotated by the rotating already-wound mass of material.

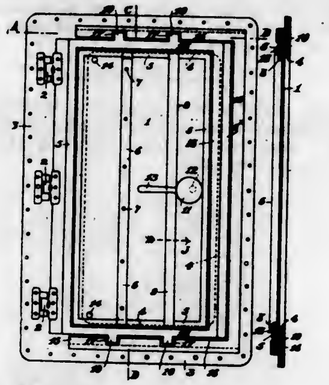
1,387,331. **AUTOMATIC SAFETY APPLIANCE FOR RAILWAYS.** JOHN H. STRUNK, Jacksonville, Fla. Filed June 19, 1919. Serial No. 305,230. 7 Claims. (Cl. 246—66.)



1. The combination with the throttle valve of a locomotive, of a motor, means for operating the motor, a

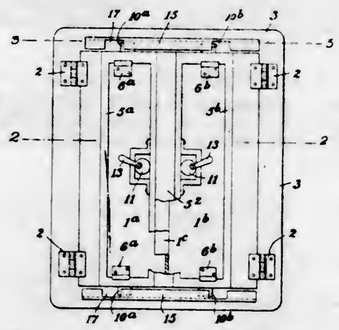
rock shaft, operative connections between the rock shaft and the throttle, a rack bar, operative connections between the rack bar and the rock shaft and a pinion carried by the motor and meshing with the rack bar, so that when the motor is operated the rack bar may effect movement of the rock shaft for the closing of the throttle.

1,387,332. DOOR APPLICABLE FOR CLOSING THE OPENINGS OR WAYS THROUGH BULKHEADS, PARTITIONS, WALLS, AND THE LIKE. ORSINI STUART, Liverpool, England. Filed June 25, 1918. Serial No. 241,903. 2 Claims. (Cl. 292—159.)



1. The combination of a door frame, a door hinged thereto and adapted to seat thereagainst, a set of keepers one of which is substantially coextensive with that edge of the door opposite its hinges, and a wedging member having a continuous edge substantially coextensive with the edge of the door opposite its hinges, arranged so that the wedging member engages the keeper along substantially its entire length.

1,387,333. FASTENER FOR BULKHEAD-DOORS. ORSINI STUART, Liverpool, England. Original application filed June 25, 1918, Serial No. 241,903. Divided and this application filed Apr. 5, 1920. Serial No. 371,543. 2 Claims. (Cl. 222—159.)



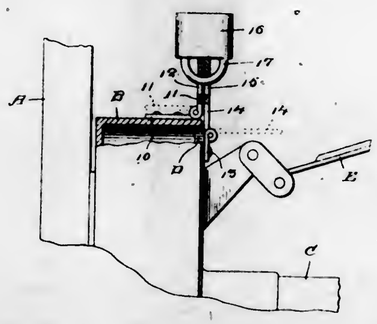
1. The combination of a door frame, a pair of doors hinged at opposite sides of the said frame and adapted to seat thereagainst, one of the said doors having a portion overlapping the other door when they are closed, keepers mounted upon the said frame adjacent the free edges of said doors, and locking members, one mounted on the face of each door to slide from and toward the hinged edge thereof, each of the locking members having beveled lugs adapted to engage said keepers, the locking member on the overlapped door having a beveled bar coextensive with and wedging against the overlapping portion of the overlapping door, and the locking member on the overlapping door having a beveled portion adapted to engage the overlapped door.

1,387,334. CABLE-SPLICE. CHARLES VIGNOS, Canton, Ohio, assignor to The American Mine Door Company. Filed Feb. 3. 1920. Serial No. 356,067. 3 Claims. (Cl. 173—263.)



3. A cable splice comprising a flexible metallic strip provided at each end with a single longitudinally disposed tongue, one tongue being arranged at one side of the strip and the second tongue being arranged at the opposite side of the strip, the inner longitudinal edge of each of the tongues being inclined inwardly and in a direction away from the tongue, the end of the strip at the side of the tongue providing a transversely extended shoulder, the outer end of each of the tongues terminating in an edge affording a blunt end adapted to contact with the shoulder at the opposite end of the strip, said tongues being substantially in duplicate.

1,387,335. AUTOMOBILE-LOCK. GEORGE SHARPE WHITE, Nashville, Tenn. Filed June 26, 1920. Serial No. 392,067. 2 Claims. (Cl. 188—31.)



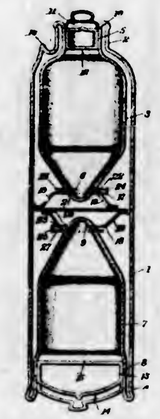
1. A locking device for motor vehicles comprising the combination with a fixed element of the rear construction and one of the rear brake drums, of a pivoted leaf carried by said stationary element, and a pivoted leaf carried by the brake drum, said leaves being capable of being brought together and being formed with openings adapted for registration and through which the shackle of a padlock may be passed.

1,387,336. CRIB. ROBERT P. WHITON, Utica, N. Y., assignor to Hasselbarth-Whiton Co., Inc., Utica, N. Y., a Corporation of New York. Filed Feb. 14, 1920. Serial No. 358,708. 2 Claims. (Cl. 5—58.)



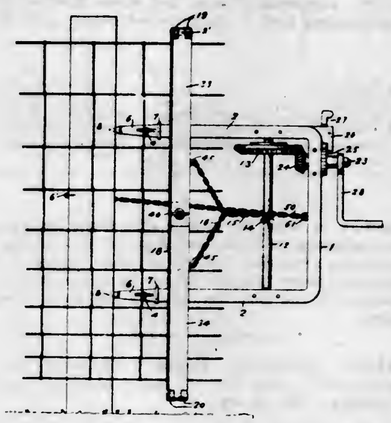
1. In a crib of the character described, the combination of a mattress-supporting frame, corner-posts supporting said frame, upright side sections at opposite sides of the frame, one of said sections being movable vertically, guides for the vertically movable section, a bail extending lengthwise of and in a plane some distance below the lower edge of the vertically movable section when the latter is elevated, and provided with up-turned ends hinged to the adjacent side of the frame to swing about a horizontal axis toward and from said vertically movable side-section, pawls pivoted to the up-turned ends of the bail and normally extending under the lower edge of the vertically movable side-section to support the same in its elevated position, and devices for supporting said pawls against downward swinging movement and for permitting them to swing upwardly, the upper faces of said pawls which engage the lower edge of the vertically movable section being substantially flat and straight to permit them to be withdrawn inwardly by the inward rocking movement of the bail without lifting the vertically movable side-section therefrom, said bail extending downwardly a sufficient distance below the lower edge of the vertically movable section to permit it to be engaged by the foot or hand of the operator at any point in its length when said side-section is elevated and resting upon the pawls.

1,387,337. VACUUM-BOTTLE. CHARLES F. P. ANDERS, Urbana, Ill., assignor, by direct and mesne assignments, to Eugene L. Greenewald, Washington, D. C. Original application filed Dec. 2, 1910, Serial No. 595,324. Divided and this application filed Feb. 19, 1916. Serial No. 79,394. 12 Claims. (Cl. 49—82.)



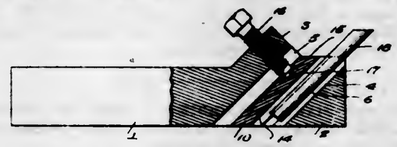
5. A method of making containers which comprises forming an outer wall blank and two receptacle blanks, inserting said receptacle blanks into said wall blank and centering them therein, and joining said receptacle blanks to said wall blank.

1,387,338. WIRE-FENCE STRETCHER. JOHN FLOYD BALL, Estep, W. Va. Filed Mar. 8, 1921. Serial No. 450,728. 2 Claims. (Cl. 254—83.)



1. In combination with a fence post, a U-shaped frame, a transverse driven shaft held to the two parallel stems of said frame, a bevel gear fixed to said shaft, a stub driving shaft held to the intermediate portion of said frame, a bevel pinion on said stub shaft meshing with said gear, a crank for operating said stub shaft, a ratchet wheel secured to said stuff shaft, a pawl held to said frame in engagement with said ratchet wheel, a chain fixed to said driven shaft, a clamp secured to said chain and adapted to engage a wire fence, and a brace-chain having one end fixed to said frame, the other end engaging said post, whereby said frame is braced against the tension of the fence, as and in the manner set forth.

1,387,339. TOOL-HOLDER. ROBERT H. BANISTER, Anniston, Ala. Filed May 17, 1920. Serial No. 382,025. 1 Claim. (Cl. 29—96.)

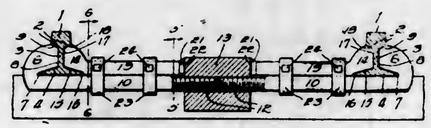


A tool member comprising a member including a shank and a head at one end of the shank, said head having an angle extension on the upper face thereof and having an inwardly directed downwardly inclined slot entering from its upper and outer corner and also entering the angle extension, the outer wall provided by the slot having a longitudinal V-shaped groove therethrough, a threaded element entering the head in a line with one of the walls of the slot thereof, a plate comprising a movable law arranged in the slot of the head and having a groove on one side thereof receiving therethrough the said element, said movable jaw having its active face provided with a V-shaped groove, and its rear and inactive face provided with a cup-shaped depression, the extension of the head having an angle threaded opening therethrough communicating with the slot, and a headed threaded element having a cone-shaped end engaging the threads of the said opening and received in the cup-shaped groove on the rear face of the movable jaw.

1,387,340. RAIL-ANTISPREADING DEVICE. NORMAN E. BASLER, St. Louis, Mo. Filed May 1, 1920. Serial No. 378,255. 2 Claims. (Cl. 238—52.)

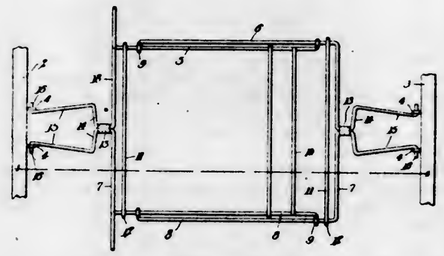
1. An anti-spreading device for railways comprising a pair of shanks having their upper faces flat and their

inner ends screw-threaded, a coupling for uniting said screw threaded shanks, a rail engaging head at the outer end of each screw threaded shank, a gage shank having a flat lower face mounted upon each screw threaded shank, a rail engaging head at the outer end of each gage shank,



a head at the inner end of each gage shank having abutting engagement with the end faces of the coupling and guide loops removably fixed to the gage shanks and encircling the screw threaded shanks to prevent lateral displacement of the gage shanks upon the screw threaded shanks.

1,387,341. HATRACK. ROBERT V. BEHNING, Los Angeles, Calif. Filed Feb. 15, 1921. Serial No. 445,160. 4 Claims. (Cl. 45—13.)



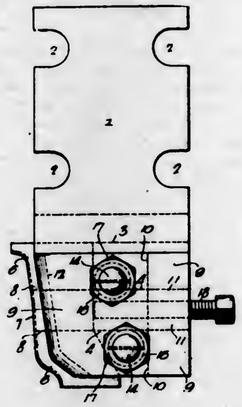
1. In combination with the top of a vehicle, of a hat rack having its ends supported thereon, and means between the ends of the hat rack and the supports therefor permitting the downward swinging of the rack on its support from either end of the rack.

1,387,342. GARMENT-POCKET. CYRUS E. BENNETT, Buffalo, N. Y. Filed Mar. 10, 1920. Serial No. 364,667. 4 Claims. (Cl. 2—151.)



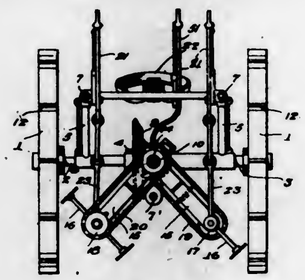
1. In combination with a garment, a pocket in said garment having a series of openings, non-elastic shirring means passed through said openings and adapted to shirr the material of the pocket to lock the pocket against entrance, and means within said pocket to hold the shirring means in locking position.

1,387,343. TOOL-HOLDER. SAMUEL G. BETZ, Lewiston, Pa., assignor to Standard Steel Works Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 6, 1920. Serial No. 428,522. 3 Claims. (Cl. 29—96.)



1. The combination of a holder having a grooved face; a tool adapted to rest against said face and having a rib which enters the groove; a clamp bearing against the holder back of the tool and against the tool near its cutting edge; and means for securing the clamp and tool to the holder.

1,387,344. COTTON-CHOPPER. MARION D. BOLAND, Appleton, Ark. Filed Aug. 24, 1920. Serial No. 405,563. 2 Claims. (Cl. 97—46.)

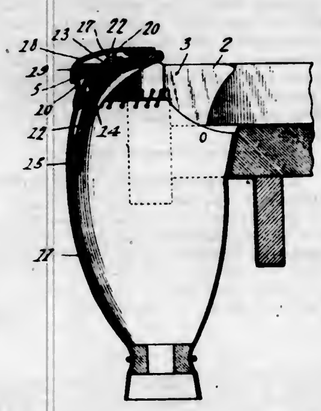


2. The combination in a cotton chopper of a longitudinal shaft, means carrying said shaft, means to rotate the shaft, cotton choppers arranged at opposite sides of the vertical plane of said shaft and having shafts in parallelism to the first-named shaft, and driving connections between the first-named shaft and the second-named shafts.

1,387,345. POOL-TABLE. ANDREW G. BRANDT, Scranton, Pa. Filed July 21, 1920. Serial No. 397,816. 8 Claims. (Cl. 46—12.)

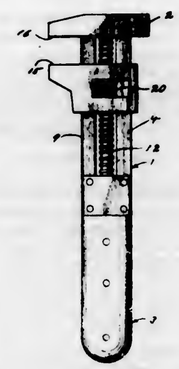
1. The combination with a table having a rail and a ball receiving opening in the rail, of a downwardly and

inwardly curved deflecting element extending below the playing surface of the table and having its upper end



portion overhanging a portion of the opening and supported in the path of a ball shot into the opening.

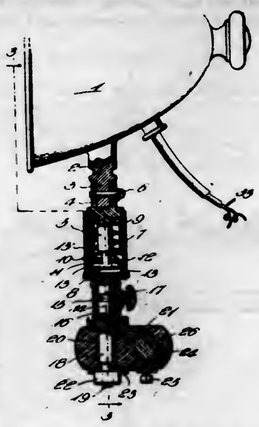
1,387,346. WRENCH. MANUEL BRICHER, Pocatello, Idaho. Filed Jan. 11, 1921. Serial No. 436,498. 3 Claims. (Cl. 81—173.)



1. A wrench having a fixed jaw member provided with a shank bifurcated at its inner end, a screw associated with the shank, a jaw movable on the shank, adjusting means for the movable jaw coöperating with the screw, a block having a socket to journal the screw, said block being recessed for interfitting with the shank, a handle plate extending into the block and shank and fastening means common to the said shank and said plate.

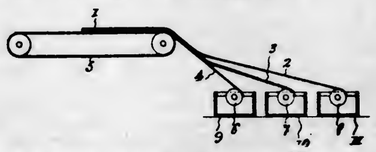
1,387,347. SPOTLIGHT FOR MOTOR-VEHICLES. FRANK GRANT BULLIS, Vancouver, Wash. Filed Mar. 22, 1920. Serial No. 367,767. 2 Claims. (Cl. 240—7.)

1. In a device of the character described, a spotlight mounting including a cup having a slotted bottom, and a spotlight having a stem terminating in a cross bar for passing through the slot, a shell positioned about the stem in spaced relation thereto with its upper end connected with the stem and its lower end open and terminating short of the cross bar, and a spring positioned



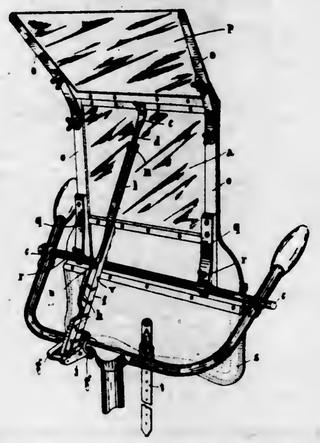
about the stem between the cross bar and the upper end of said shell.

1,387,348. PIPE-COVERING AND FABRIC FROM WHICH PIPE-COVERINGS ARE MADE. ABRAM K. BUAGSTRESSER, Norristown, Pa., assignor to Norristown Magnesia and Asbestos Co., Norristown, Pa., a Corporation of Pennsylvania. Filed Sept. 25, 1920. Serial No. 412,783. 7 Claims. (Cl. 154—44.)



1. In a fabric for heat insulating in combination, outer layers of asbestos fabric, and between said layers, an intermediate layer of infusorial earth and asbestos fiber.

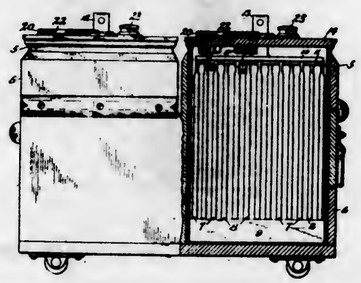
1,387,349. WIND AND WEATHER SCREEN FOR MOTORCYCLES. ARCHIBALD GOWAN CAMPBELL, Richmond, England. Filed Dec. 31, 1919. Serial No. 348,671. 3 Claims. (Cl. 208—150.)



1. A wind and weather screen for the protection of the rider of a motor-cycle including in combination a pivoted

screen, a bearing member rigid with the handle-bars of the motor-cycle upon which said screen can rock, said bearing member restraining said rocking action to a transverse axis, and resilient means connecting said screen to the motor-cycle.

1,387,350. SAFETY DEVICE FOR STORAGE BATTERIES. RUFUS N. CHAMBERLAIN, Chicago, Ill., assignors to Gould Storage Battery Co., Depew, N. Y., a Corporation of New York. Filed Feb. 24, 1919. Serial No. 278,592. 6 Claims. (Cl. 204—29.)

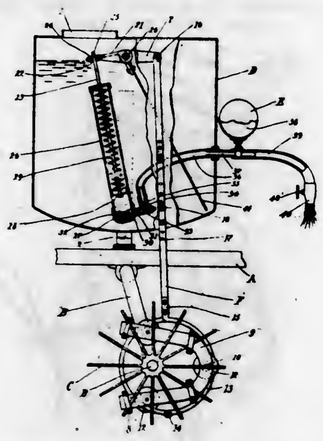


6. A storage battery having its tank provided with a safety passage of comparatively large area relative to the closed area of the tank, and a member normally closing said passage and adapted to be displaced by an explosion of the gas within the tank.

1,387,351. WELDING COMPOUND. WILLIAM RAY CHAPIN, Indianapolis, Ind. Filed May 2, 1919, Serial No. 294,182. Renewed Nov. 23, 1920. Serial No. 426,102. 4 Claims. (Cl. 148—23.)

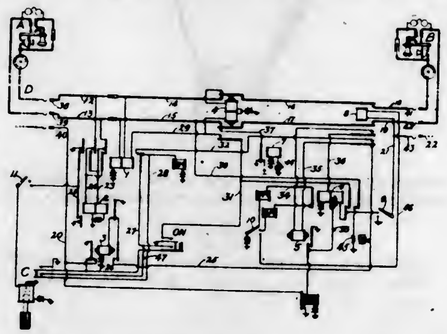
4. A welding compound composed of ferro-silicon, powdered iron, and borax, in proportion substantially as follows: 60% ferro-silicon, 20% powdered iron, and 20% borax.

1,387,352. SPRAYER DEVICE. JOSEPH CLARK, De Graff, Minn. Filed Apr. 23, 1920. Serial No. 375,991. 5 Claims. (Cl. 299—30.)



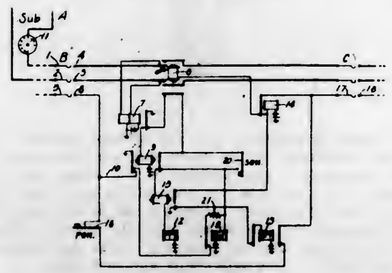
1. In combination with the frame and a supporting wheel, an adjacently supported liquid container, a rock shaft within the container projecting through the side at the top thereof, mechanism operatively connecting the wheel with said rock shaft to actuate the latter when the wheel is moved, a water pump having an intake and a discharge opening within the container operatively connected with said rock shaft to be operated thereby and extending downwardly and having pivotal support adjacent to the bottom of said container to be oscillated thereon, a discharge pipe rigid in the side of said container and projecing therethrough, and a flexible connection within the container between the said discharge pipe and discharge opening.

1,387,353. MACHINE-SWITCHING TELEPHONE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1917. Serial No. 203,979. 10 Claims. (Cl. 179—18.)



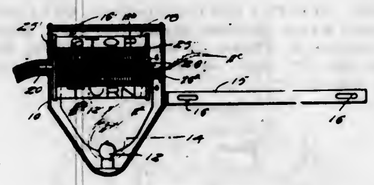
1. In a machine switching telephone system, calling and called subscribers' lines, automatic switches including a connector for interconnecting said lines, a magnetic device associated with said connector to control the release of said connector, normal means to release said connector and auxiliary means controlled by a predetermined series of line interruptions for actuating said device.

1,387,354. TELEPHONE-EXCHANGE SYSTEM. HENRY P. CLAUSEN, Mount Vernon, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed June 5, 1919. Serial No. 301,866. 8 Claims. (Cl. 179—18.)



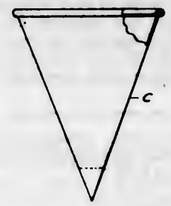
1. In a telephone system, a switch for extending a call and having directive and automatic movements, means for controlling the directive movements of said switch, other means for automatically moving said switch, and means effective until the call is abandoned for preventing directive and automatic movements of said switch should the first named means be operated before said other means has completed its operation.

1,387,355. SAFETY-SIGNAL FOR MOTOR-VEHICLES. WILLIAM H. COLLINS and FREDERICK R. BAUKHAGE, Danville, Ill. Filed June 4, 1920. Serial No. 386,461. 3 Claims. (Cl. 116—43.)



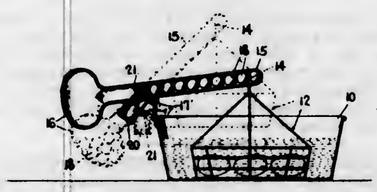
1. A device of the class described having a casing, a signal drum movably mounted therein, means operable to move the drum to give different signals, and automatically operable detent means for the drum within the casing associated with an end of the drum and the adjacent wall of the casing.

1,387,356. LUBRICANT-DISPENSING CONTAINER. WILLIAM H. COOK, Los Angeles, Calif. Filed Apr. 4, 1917. Serial No. 160,204. 1 Claim. (Cl. 206—56.)



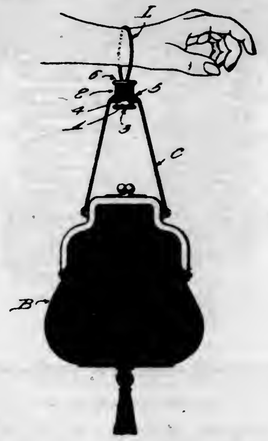
As a new article of manufacture, a package comprising lubricant, and a closed container occupied by the lubricant and including a cone-shaped body of thin and pliable material tapered to a point, and a disk-like head of thin and pliable material hermetically joined to the large end of the body, whereby when the apex end of the body is cut-off, the container is adapted for use as a dropper or funnel, and the discharge of the contents of the container may be accelerated by inward pressure imposed on either the side of the body or the head.

1,387,357. EGG-BOILER. WILLIAM A. CORBETT, Winnipeg, Manitoba, Canada. Filed May 25, 1918. Serial No. 236,608. 2 Claims. (Cl. 161—16.)



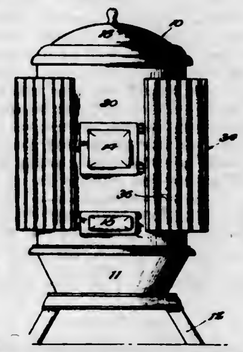
1. In a device of the class described, a receptacle, a tubular member mounted for pivotal movement, said receptacle being connected with the tubular member, a plurality of weighted members within the tubular member, a hollow, flexible, and collapsible time measuring device constituting an obstruction, retaining the weighted members in one end of the tubular member, and permitting them after the expiration of an interval to move to the opposite end, for overbalancing the latter.

1,387,358. LOSS-PREVENTING DEVICE. JOSEPH COSTELLO, New York, N. Y. Filed Jan. 20, 1921. Serial No. 438,679. 4 Claims. (Cl. 24—115.)



4. A loss preventing device of the class described comprising a cylindrical screw-threaded sleeve having portions thereof bent laterally to simultaneously form shoulders and openings, the latter being intended to permit passage of a carrying cord therethrough, a second like sleeve engaged with the first sleeve, having a lateral flange on its inner end to bind the cord against said shoulders and being equipped at its opposite end with an annular bead, and an apertured disk loosely seated in said bead, said cord being adapted to pass through said apertures.

1,387,359. HEAT-STOVE. EVAN J. DAVIS, Yakima, Wash. Filed May 29, 1920. Serial No. 385,282. 3 Claims. (Cl. 126—58.)

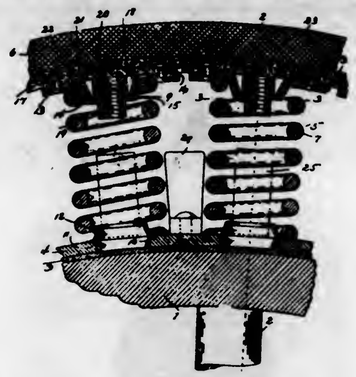


1. The combination of a stove having a plain cylindrical drum, and a split resilient jacket adapted to be sprung about said plain cylindrical body and held thereto by its own resiliency and provided with interior and exterior air conducting passages.

1,387,360. SPRING-TIRE. JOHN DAVIS, Detroit, Mich. Filed Apr. 15, 1920. Serial No. 374,226. 7 Claims. (Cl. 152—8.)

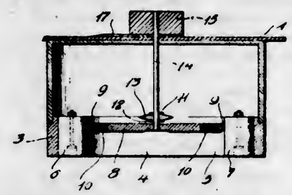
3. In a spring tire, the combination with a slip rim, of a series of spring elements arranged circumferentially around said slip rim, each spring element comprising inner and outer spring abutments and a coil spring therebetween, said outer abutments having hollow inwardly extending projections, a pliable belt surrounding said outer abutments and positioning members permanently

secured to the inner surface of said belt and having inwardly extending projections slidably engageable within



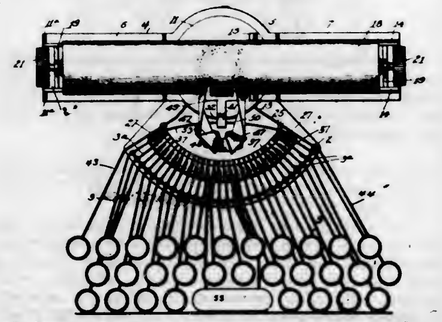
said hollow inwardly extending projections of said outer abutments.

1,387,361. ROTARY SWITCH. WALTER DAVIS, Tulsa, Okla. Filed Sept. 20, 1919. Serial No. 325,053. 1 Claim. (Cl. 200—43.)



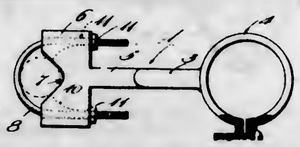
A rotary switch comprising a top plate, a cylindrical shell secured upon the underside of said plate, a ring member of insulating material secured within the lower end of said shell, a plurality of contacts embedded within said ring and flush with the wall of the opening therein, a rod journaled through said top plate, a switch arm carried by the lower end of said rod, outwardly spring-pressed ball contacts in the ends of said arm bearing against the wall of the opening in the ring, a knob on the upper end of the rod, and a pointer on the rod beneath the knob, the top plate being provided with a series of graduations concentric with the rod and traveled over by said pointer.

1,387,362. FOLDING TYPEWRITING-MACHINE. PHILIPPE DE CLAMECY, New York, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Mar. 29, 1917. Serial No. 158,284. 34 Claims. (Cl. 197—186.)



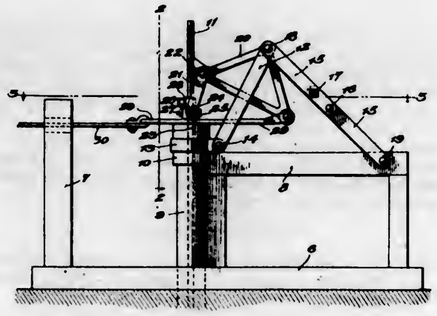
1. In a typewriting machine, the combination of a carriage support, a platen carriage mounted thereon, means whereby the platen carriage may be folded relatively to the carriage support when the carriage is moved to one end of the support, and means whereby said support may be collapsed.

1,387,363. SUPPORT FOR LIQUID-SOAP CONTAINERS. THOMAS MYRON DE FORE, Minneapolis, Minn., assignor of one-half to William T. Olson, Minneapolis, Minn. Filed Jan. 20, 1921. Serial No. 438,732. 1 Claim. (Cl. 248—20.)



A device of the class described comprising a bracket adapted for vertical disposition, the upper end thereof being directed laterally and formed with an integral clamp-ring for connection to a liquid soap-dispensing jaw, the other end of the bracket being directed laterally in an opposite direction and formed on its extremity with an integral flat substantially rectangular head, the latter having a notch formed in its outer longitudinal edge for reception of a portion of a faucet, said head being also formed on opposite sides of said notch with recesses extending therethrough and enlarged at their outer ends and the walls thereof nearest the notch being curved, a U-shaped yoke having its ends extended through said recesses, these ends being screw-threaded, and nuts on said ends.

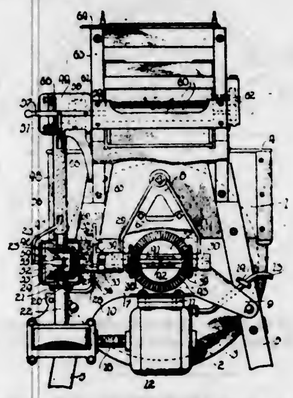
1,387,364. PUMP-JACK. CHRISTY JOHNSON DEVER, Clinton, Okla. Filed Sept. 30, 1920. Serial No. 413,704. 3 Claims. (Cl. 74—5.)



1. A pump-jack comprising struts swingably connected together at an apex and swingably mounted at their lower ends, one of said struts being of swingably-connected parts, means whereby said parts are releasably maintained in substantially straight position, an operating-beam rockably mounted at the apex of said struts, and means for connecting said beam with a pump-rod.

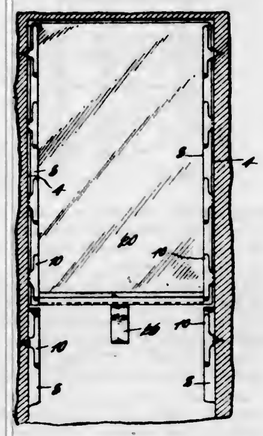
1,387,365. GEARING FOR WASHING-MACHINES AND THE LIKE. JOHN A. DIENNER, Chicago, Ill., assignor to Walter J. Conlon, Chicago, Ill. Filed Apr. 2, 1918. Serial No. 226,144. 11 Claims. (Cl. 74—59.)

1. In a washing machine, washing mechanism, wringing mechanism, power means for driving said mechanisms, a power driven member, a first gear driven directly by said power driven member, a plufality of transmission gears all in mesh and driven from said first gear, driving means for said washing mechanism, driving means for said wringer mechanism, and control means operable to releasably connect said driving means for said washing mechanism through said gears, and to selectively connect said driving means for said wringing mechanism whereby said latter driving means is driven directly from said power driven member for motion in one direction or is clutched to one of said plurality of transmission gears for motion in the other direction.



8. In combination, three meshing gears, a plurality of shafts for said gears, the first of said shafts being forward driven, the remainder of said shafts being normally disconnected from said gears, clutching means on a second shaft for driving said second shaft in unidirectional rotation from said gears, and clutching means on a third shaft for driving said third shaft in either direction from said gears.

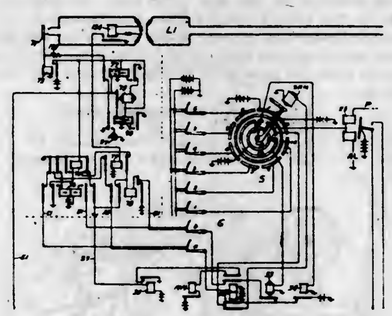
1,387,366. WINDOW-RUNWAY. JOHN F. DODGE and GEORGE E. GODDARD, Detroit, Mich., assignors to Dodge Brothers, Detroit, Mich., a Corporation of Michigan. Filed June 20, 1919. Serial No. 305,463. 15 Claims. (Cl. 296—48.)



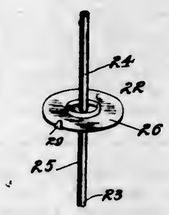
1. A window runway having in combination, longitudinal guides comprising a pair of angle bars between which a sash may slide, each pair of bars independently movable toward and from each other.

1,387,367. TELEPHONE SYSTEM. WILLIAM L. DODGE and HUGH D. MACPHERSON, Maplewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Aug. 7, 1919. Serial No. 315,816. 18 Claims. (Cl. 179—50.)

1. In a telephone system, in combination, a plurality of trunk lines and a signaling path common thereto extending between two stations, a signaling device at one station, means at the other station responsive to rapid changes in the condition of one of the trunk lines to transmit only two successive signals over the signaling path, a signal receiving circuit at the one station and means controlled over the signal receiving circuit and responsive to the two transmitted signals for causing the intermittent operation of the signaling device.

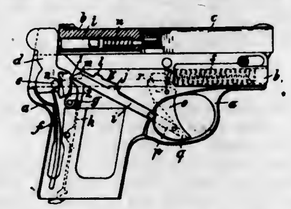


1,387,368. BOBBIN-WINDING APPARATUS FOR SEWING-MACHINES. RAY DOUGLASS, Deer Park, N. Y. Filed Apr. 21, 1915. Serial No. 22,735. 3 Claims. (Cl. 242—134.)



3. A spool support for sewing machines having a spool-holding spindle and a bobbin winder, comprising a tube adapted to be frictionally supported by the spindle and having an intermediate spool-supporting guard extending beyond the base of the spool supported thereby, said guard carrying a thread guide at its outer edge, whereby sewing and bobbin winding operations may be had concurrently, and movements of either spool during operation will be ineffective to shift the position of the thread guide.

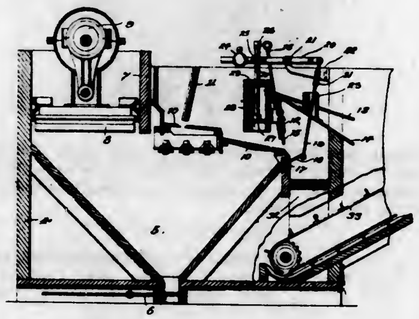
1,387,369. GUN-LOCK FOR AUTOMATIC FIREARMS. JOSEF DUFFEK, Steyr, Upper Austria, Austria, assignor to the Firm of Oesterreichische Waffenfabriksgesellschaft, Steyr, Upper Austria, Austria. Filed Aug. 24, 1920. Serial No. 405,766. 6 Claims. (Cl. 42—69.)



1. A gun-lock for automatic firearms, comprising in combination, a trigger, a press-lever connected to the said trigger, a projection on the press-lever, a guide attached

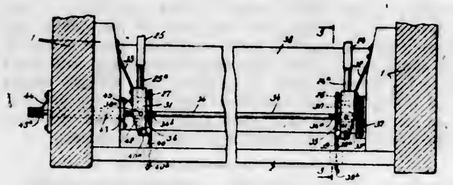
to the firearm in which said projection is adapted to slide, a depression in the said guide into which the projection of the said press-lever may enter, and a hammer, pivotally connected to the fire-arm and adapted to be moved to cocked position by the said press-lever, whereby on the entry of the said projection into the depression of the guide the hammer is released by the press-lever, and spring means acting on said hammer for causing the latter when released from the press-lever to jump forward and fire the cartridge.

1,387,370. JIG. GUY H. ELMORE, Swarthmore, Pa. Filed Dec. 23, 1919. Serial No. 346,812. 9 Claims. (Cl. 83—79.)



1. The combination with a jig having a screen and a constantly open discharge opening for heavier materials at a side of said screen, of a plate over which the material after passage through said discharge opening flows; and means serving to vary the inclination of said plate to vary the rate of flow of material thereover.

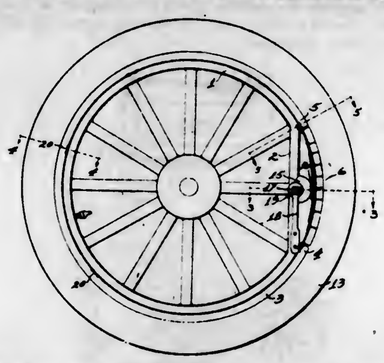
1,387,371. TRACKING DEVICE. CHARLES L. EMMONS, Cranford, N. J., assignor to The Aeolian Company, a Corporation of Connecticut. Filed Oct. 21, 1920. Serial No. 418,431. 6 Claims. (Cl. 84—138.)



1. In a tracking device for an automatic musical instrument, the combination of a unitary structure comprising the control ports of the tracking device together with means for adjusting them equally and simultaneously nearer together or farther apart; and means for adjusting said unitary structure to centralize it in its operative position.

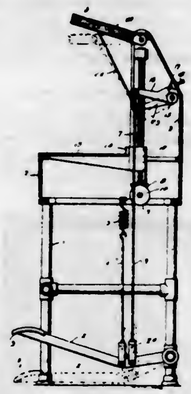
1,387,372. WHEEL AND DEMOUNTABLE RIM. JOSEPH EULBERG, Alton, Iowa. Filed Oct. 18, 1919. Serial No. 332,081. 6 Claims. (Cl. 301—11.)

6. In a wheel and demountable rim the combination of a felly having one portion thereof flattened, a rim including an arc shaped portion and a flexible portion hinged to said arc shaped portion, spring means for normally holding said flexible portion flattened in respect to said arc shaped portion, extensions carried by said flexible portion and extending beyond the hinged joints thereof, and adapted to lie within recesses in the arc shaped portion of said rim when said flexible portion is flattened in respect



to the arc of said rim, and to lie in recesses in said felly when said flexible portion lies in the arc of said rim.

1,387,373. CAPPING-MACHINE. DANIEL FASSON, Rochester, N. Y. Filed Apr. 23, 1920. Serial No. 376,118. 2 Claims. (Cl. 113—30.)

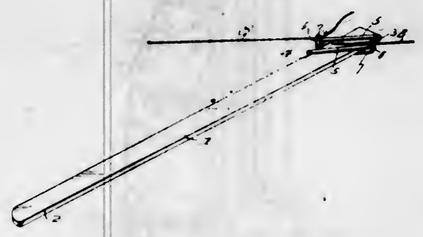


1. A capping machine comprising a base frame, a lever pivoted thereon, spring means for normally retaining the free end of the lever in an elevated position, a table frame mounted upon the base frame and having an upwardly disposed portion, a table panel mounted above the table frame, means for adjusting the table panel vertically with relation to the table frame, a shaft journaled in the hood portion of the table frame, an arm carried by the shaft and operatively connected with the lever, a stop member adjustably mounted in the hood located in the path of movement of the arm, and a capping panel pivotally mounted upon the hood and operatively connected with the shaft which is journaled in the hood.

1,387,374. WIRE-STRETCHER. FRED FRANK, Dublin, Tex. Filed Nov. 26, 1919. Serial No. 340,957. 1 Claim. (Cl. 254—81.)

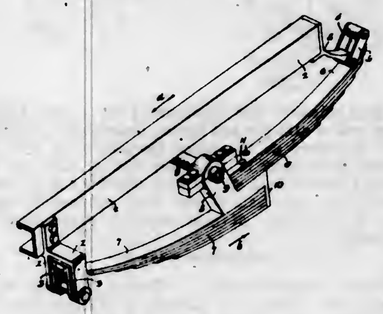
A device of the kind described comprising a lever having notches formed on opposite edges of which one is adjacent the end of the lever and the other spaced from the said end, and a pair of rectangular links each of which is formed from a piece of flat strip metal bent back on itself to provide two parallel elements for disposition against opposite faces of the lever, the connecting ends of said

elements being upturned to provide a grab formed with a tapered slot constituting a wire seat, the ends of the said



elements remote from the grab being spanned by a round pin seating in one of the notches of said lever in the manner and for the purpose specified.

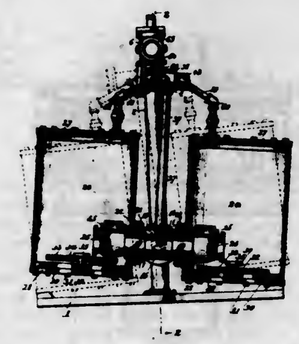
1,387,375. VEHICLE-SPRING. CHARLES FERNOFER, Philadelphia, Pa. Filed May 10, 1920. Serial No. 380,138. 8 Claims. (Cl. 267—44.)



3. The combination of a member having two arms at an obtuse angle to each other, one of said arms being formed to rotatably engage an axle; two quarter elliptic leaf springs mounted respectively adjacent the upper and lower faces of a second arm of said member; with common means connecting said springs to said other member.

1,387,376. PNEUMATIC PUMP. HORACE LEE FROST, Elizabethton, Tenn. Filed May 24, 1919. Serial No. 299,399. 10 Claims. (Cl. 103—8.)

1. An automatic pneumatic pump having a compressed air inlet and a water outlet, a rockable pair of cylinders or tanks for submergence in a body of water and having inwardly opening valves for access of water to the tanks, and an air valve rockable with the tanks and arranged for connection with a source of air under pressure, said air valve comprising a differential piston structure and having air connections with the tanks controlled by the piston structure, and an auxiliary valve structure carried by the air valve and responsive to rocking movements of the cylinders and air valve to direct air under pressure to



the cylinders in alternation and connect the cylinders in similar manner to the atmosphere.

1,387,377. MANUFACTURE OF HIGH-CLASS "FONDANT" CHOCOLATE AND SIMILAR CHOCOLATES. FREDERICK GEORGE FRYER and BASIL GORDON MCLELLAN, York, England. Filed July 27, 1920. Serial No. 399,343. 4 Claims. (Cl. 99—11.)

1. In the manufacture of high class "fondant" chocolate and similar chocolates of the smooth variety, mixing together materials comprising partially ground cocoa liquor and sugar, repeatedly grinding the mixture and subsequently subjecting it to a liquefying operation and then to extreme agitation for a few minutes.

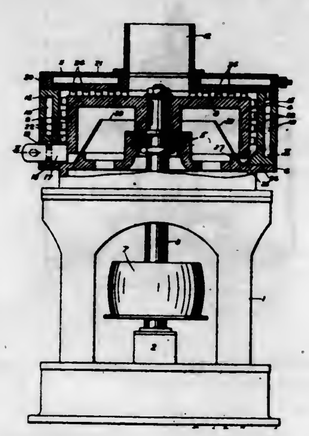
1,387,378. MANUFACTURE OF HIGH-CLASS "FONDANT" CHOCOLATE AND SIMILAR CHOCOLATES. FREDERICK GEORGE FRYER and BASIL GORDON MCLELLAN, York, England. Filed July 27, 1920. Serial No. 399,344. 5 Claims. (Cl. 99—11.)

1. In the manufacture of high class fondant chocolate and similar chocolates the solid particles of the cocoa and sugar in which are of such a degree of fineness that at least 98% of each will pass through a standard sieve having 240 meshes to one inch having holes approximately 53/1000 of a millimeter square and that 100% of the sugar will pass through a standard sieve having 200 meshes to one inch having holes approximately 68/1000 of a millimeter square, the steps which consists in separately grinding the different ingredients to be mixed to a fineness such that 90% of the solid particles will pass through a standard sieve having 240 meshes to one inch, then mixing the ingredients and subsequently passing the mixture through a grinding machine.

1,387,379. MANUFACTURE OF HIGH-CLASS "FONDANT" CHOCOLATE AND SIMILAR CHOCOLATES. FREDERICK GEORGE FRYER and BASIL GORDON MCLELLAN, York, England. Filed July 27, 1920. Serial No. 399,377. 5 Claims. (Cl. 99—11.)

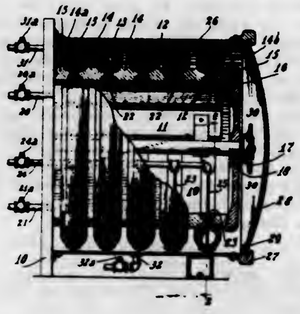
1. The manufacture of high class fondant chocolate or similar chocolates consisting in separately grinding the cocoa liquor and the sugar to a fineness such that at least 98% of the solid particles of each will pass through a standard sieve having 240 meshes to one inch having holes approximately 53/1000 of a millimeter square and such that 100% of the sugar will pass through a standard sieve having 200 meshes to one inch having holes approximately 68/1000 of a millimeter square, and then mixing the ingredients and subjecting the mixture to an operation producing the "fondant" effect.

1,387,380. BEATING OR THRESHING MACHINE. FREDERICK GEORGE FRYER, York, England. Filed July 27, 1920. Serial No. 399,439. 6 Claims. (Cl. 259—7.)



1. In a machine for beating liquids, a rotor having an upper horizontal surface and a peripheral surface of revolution, a stator surrounding the rotor and defining therewith a narrow space, projections on the said surfaces of the rotor extending substantially across the whole width of said space, means defining an inlet and an outlet for said space and means for rapidly revolving the rotor.

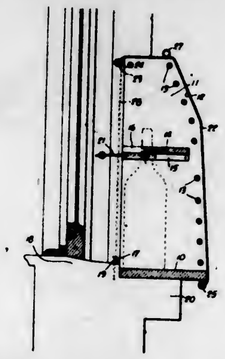
1,387,381. TIRE-VULCANIZING METHOD AND APPARATUS. JOHN R. GAMMETER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Apr. 18, 1921. Serial No. 462,162. 23 Claims. (Cl. 18—17.)



1. The method of vulcanizing pneumatic tires which comprises applying heat to the inner surface of a tire whose outer surface is exposed, and applying a cooling fluid to the outer surface of the tire.

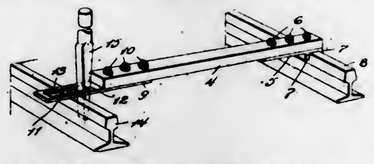
1,387,382. WINDOW-CUPBOARD. CARL A. GEIB, New York, N. Y., assignor of one-half to Alfred Richter, New York, N. Y. Filed Sept. 24, 1920. Serial No. 412,471. 2 Claims. (Cl. 45—104.)

1. A window cupboard comprising a frame having an open top and back, a portion of the back being inclined, an opaque weather and rain proof cover for the top and back, means to attach the cover to the front corners of



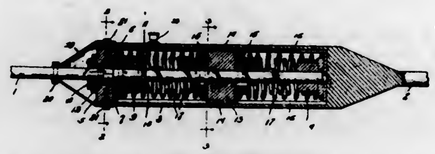
the top, and means to secure the remote portion of the cover to another part of the frame.

1,387,383. GAGE-ADJUSTING TOOL. JAMES W. GILLIAM, Pevely, Mo. Filed June 26, 1920. Serial No. 392,126. 1 Claim. (Cl. 254—43.)



A gage adjusting tool comprising a bar; a plate secured to one end of said bar and having downwardly projecting teeth so spaced as to engage the ball of a rail; and another plate fixed to the other end of said bar and having a longitudinal slot of such length as to be evenly balanced over the ball of the other rail and having a space at each side of said rail-ball, substantially as described.

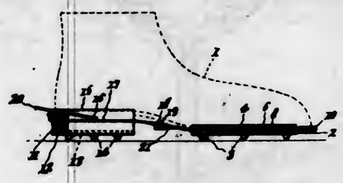
1,387,384. DRIVE-SHAFT. JAMES E. GODDARD, Baltimore, Md., assignor of one-half to Michael Chonkich, Baltimore, Md. Filed Mar. 27, 1920. Serial No. 369,215. 2 Claims. (Cl. 64—96.)



2. In combination with a drive shaft having a worm thereon and a driven shaft, a casing carried by the driven shaft and receiving the wormed portion of the drive shaft, a nut member on said portion, said casing having longitudinally extending grooves in its inner walls and the nut member having projections engaging said grooves, a screw plug closing the open end of the casing, a cap fitting over said open end and having a small opening therein for receiving the drive shaft, means for holding the cap in position and preventing unscrewing of the plug, a bearing carried by the screw plug for the drive shaft, chairs at the ends of the casing and on each face of the nut member, a pair of coiled springs having their ends bearing against said shafts, one spring of each pair being of

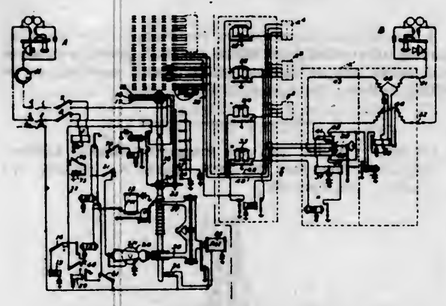
smaller diameter than the other spring to fit within the same and said chairs having portions of less diameters than the diameters of the small springs so that said portions will engage each other when the load is greater than the strength of the springs.

1,387,385. HEEL-GUARD AND TOE-CLIP. EMANUEL O. GOLDSMITH, Memphis, Tenn. Filed Feb. 9, 1921. Serial No. 443,577. 3 Claims. (Cl. 36—62.)



1. A heel guard and toe clip comprising guard means fitting the heel of a shoe, an auxiliary sole fitting beneath the shoe sole, coupling members engaged with the auxiliary and shoe soles, flexible securing means engaging with the guard means and said coupling members, and resilient means across the toe of the shoe connecting the ends of the flexible securing means.

1,387,386. TELEPHONE SYSTEM. CHARLES L. GOODSUM, New York, and HENRY P. CLAUSEN, Mount Vernon, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed July 26, 1917. Serial No. 182,963. 11 Claims. (Cl. 179—18.)
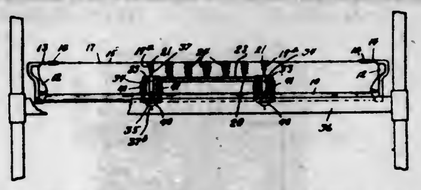


7. In a telephone system, a trunk line, a plurality of relays associated with said trunk line, a plurality of other trunk lines accessible to said first trunk line, means whereby the operation of each one of said relays connects said first trunk line with one of said other trunk lines, and an automatic progressively movable switch for seizing said first trunk line, and for electing which one of said relays shall be operated and for operating the elected relay.

1,387,387. PROCESS OF PRODUCING BREAD AND OTHER LIKE FOODSTUFFS. ROBERT GRAHAM, Cupar, Scotland. Filed Apr. 23, 1919. Serial No. 292,225. 4 Claims. (Cl. 99—10.)

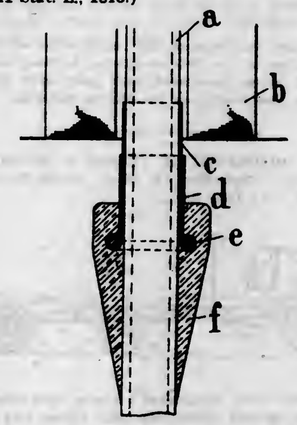
1. A bread or other food stuff composed essentially of a cereal flour and a predominating quantity of additional starch containing material other than a cereal, gelatinized and converted by treatment with a diastatic and solubilising agent.

1,387,388. SPRING-BED. MAURICE GREENWOOD, Revere, Mass. Filed Feb. 12, 1921. Serial No. 444,523. 9 Claims. (Cl. 5—40.)



1. A spring bed comprising a frame including a pair of rigid side-members, a fabric, a plurality of tensile springs connecting the head and foot edges of said fabric whereby to support said fabric resiliently under tension, and means to support said fabric locally comprising an auxiliary frame disposed beneath and carried by said fabric and having its opposite sides secured rigidly to the opposite side edges of said fabric, and springs carried by said auxiliary frame extended upwardly and in engagement with said fabric to support it, and springs carried by said rigid side-members in engagement with said auxiliary frame whereby additionally to support it.

1,387,389. APPARATUS FOR THE HIGH-VOLTAGE WINDINGS OF ELECTRICAL MACHINES. FRITZ HÄBERLI, Ennetbaden, and JOHANN KÜBLER, Baden, Switzerland, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Filed July 30, 1920. Serial No. 400,262. 3 Claims. (Cl. 171—206.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

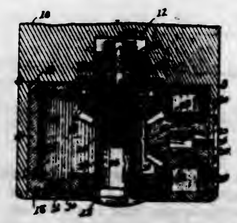


1. An apparatus for the high voltage windings of electrical machines including a stator, an insulated high tension conductor emerging therefrom and an electrically conducting covering of said insulated conductor, one end of the conducting covering being connected electrically to the stator, the other end being removed spacially from the stator and protected from exposure to the air by an insulating sheath.

1,387,390. ADJUSTABLE TABLE-LEG. GEORGE T. HAGGENMILLER, San Francisco, Calif., assignor of one-half to Joseph Warren, San Francisco, Calif. Filed Oct. 5, 1920. Serial No. 414,817. 1 Claim. (Cl. 46—13.)

The combination with a billiard table leg having a main chamber a centrally located auxiliary chamber and a side opening formed therein, an externally threaded shaft positioned within the main chamber, means for guiding said shaft vertically, an internally threaded gear wheel

encircling said shaft, antifriction means disposed between said gear wheel and said casing, a miter gear meshing with said gear wheel and imparting rotary movement



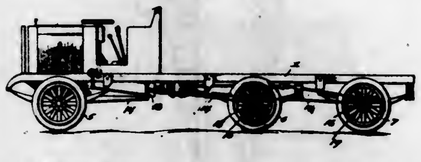
to said shaft through the medium of said gear wheel for the purpose of raising or lowering the billiard table leg, and means disposed on the side of the billiard table leg for holding said shaft in a locked position.

1,387,391. YIELDING MAT CONSTRUCTION. CHARLES C. HALL, Alexandria, Ind., assignor to Banner Rock Products Company, Alexandria, Ind., a Corporation. Filed Oct. 9, 1920. Serial No. 415,872. 8 Claims. (Cl. 154—58.)



1. In a mat construction, the combination of a pair of separated cover plates, fibrous material between said cover plates, and means associated with said cover plates for limiting the compression of the fibrous material.

1,387,392. MOTOR-TRUCK. EDWIN A. HALLAM, Portland, Oreg. Filed Nov. 13, 1919. Serial No. 337,756. 4 Claims. (Cl. 180—24.)



1. A motor truck comprising a single rigid frame, three dead axles, springs connecting said frame and axles, a pair of spindles for each axle, each spindle having a wheel rotatably mounted thereon, king pins for pivotally connecting the spindles to each axle, a bevel gear secured to each wheel of the two rearmost axles, gearing rotatably mounted on the king pins of the spindles of the two rearmost axles, said gearing including a bevel pinion adapted to mesh with said bevel gear, means for driving said gearing including a separate differential mechanism for each pair of traction wheels, and means connected with said spindles for steering all of said wheels.

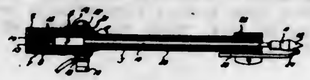
1,387,393. DIP-NET. ALBERT B. HANEL, Milwaukee, Wis. Filed Apr. 14, 1919. Serial No. 289,946. 4 Claims. (Cl. 43—12.)

1. A foldable net, comprising a rim formed of a pair of bows, an oscillatory coupling member having eccentrically curved slots in which the bows are slidingly engaged at one side of the rim, and a handle adapted to removably connect the ends of the bows at the other side of the rim, said coupling member being adapted, in one



position of adjustment, to hold the bows in a common plane with their ends substantially in abutting contact.

1,387,394. ELECTRIC ETCHING INSTRUMENT. EDWARD F. HANKIN, Philadelphia, Pa. Filed Aug. 23, 1920. Serial No. 405,346. 6 Claims. (Cl. 219—20.)



1. An etching instrument of the character described including an etching point and a solenoid operative to move said point out of electric contact with material to be etched; substantially as described.

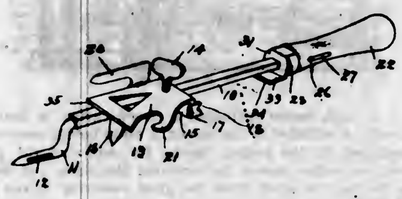
1,387,396. PRESS. FRANCIS BRUERTON HARPER, London, England. Filed Nov. 28, 1919. Serial No. 341,053. 12 Claims. (Cl. 100—57.)



1. A press, comprising a back-board, an outer board, said boards being connected together at one extremity, means for closing said boards one toward the other, and an intermediate member located between said boards, said intermediate member being connected to one of said boards by yieldable means to regulate the pressure exerted by said boards.

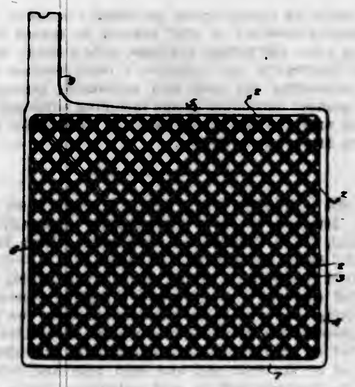
11. A garment press, comprising a back board, an outer board, said boards being connected together at one extremity, means for closing said boards one toward the other, an intermediate board located between said boards and being of shorter length than either of said boards, yieldable means supporting said intermediate member away from said back board, the extremity of said intermediate member adjacent to the connection of said boards adapted to grip an extremity of a garment inserted between said outer board and intermediate member, and means for gripping and stretching the garment toward its other extremity as the boards are closed together.

1,387,396. CAN-OPENER. ARTHUR HERCHER, Providence, R. I. Filed May 14, 1920. Serial No. 381,412. 2 Claims. (Cl. 81—3.1.)



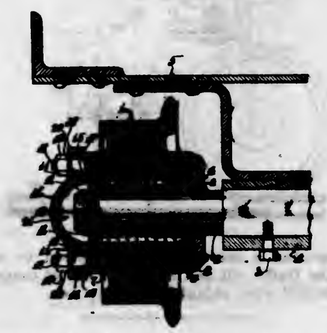
1. A receptacle opener comprising a shank having a gripping plate adjustably mounted thereon, a gripping jaw on said plate, means for securing said plate with its jaw in operative position on said shank, an operating handle slidable endwise on said shank and carrying a jaw coöperating with that on said plate whereby a single endwise movement of said handle will cause the receptacle cap to be gripped between the handle jaw and that on said plate so as to be readily unscrewed from the receptacle.

1,387,397. STORAGE-BATTERY GRID. WALTER E. HOLLAND and JAMES M. SKINNER, Philadelphia, Pa., assignors to Philadelphia Storage Battery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 29, 1918. Serial No. 260,192. 7 Claims. (Cl. 204—29.)



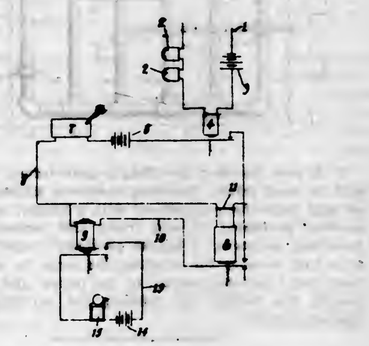
1. As a new article of manufacture a storage battery grid consisting of a relatively dense homogeneous body of metal.

1,387,398. WHEEL. MORRIS P. HOLMES, Claremont, N. H., assignor to Sullivan Machinery Company, a Corporation of Massachusetts. Filed Dec. 15, 1919. Serial No. 344,943. 17 Claims. (Cl. 295—48.)



1. In combination, an axle, a wheel thereon, sectional interlocking means therefor, and means on said wheel for holding the same in position, said means being releasable by partial revolution relative to said wheel.

1,387,399. SIGNALING DEVICE. RICHARD M. HOPKINS, New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J., a Corporation of New Jersey. Filed Jan. 27, 1917. Serial No. 144,953. 4 Claims. (Cl. 177—352.)

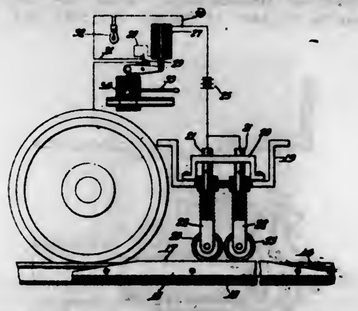


2. In a signaling system, the combination of a circuit including one or more signal transmitters, of a relay controlled by said circuit, a second circuit comprising a register, a relay having resistance shunt across its terminals, and a slow-acting relay in shunt to said first-named relay and having its circuit closed through the front contact of the latter.

1,387,400. TRAIN-CONTROL SYSTEM. ROBERT F. HUDSON, Richmond, Va. Filed Oct. 27, 1919. Serial No. 333,784. 3 Claims. (Cl. 246—70.)

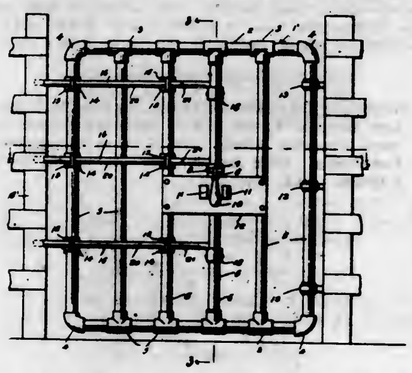
3. The combination with a vehicle having controlling mechanism for regulating the speed thereof, of means carried by the vehicle and along the right of way for actuating said controlling means, said latter coöperating means comprising a ramp rail and a traffic rail, the

upper surface of the ramp rail being spaced from and slightly above the traffic rail and a vehicle carrying mem-



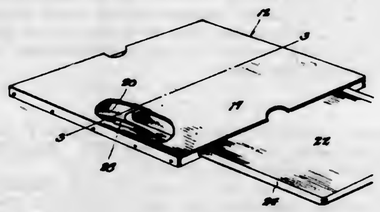
ber comprising a contact surface disposed to normally engage the traffic rail and to be held out of contact with the traffic rail when engaging the ramp rail.

1,387,401. BULL-PEN-GATE LOCK OR FASTENER. ROSS ALBERT HUGHES, Mahnomen, Minn. Filed Oct. 5, 1920. Serial No. 414,922. 3 Claims. (Cl. 292—33.)



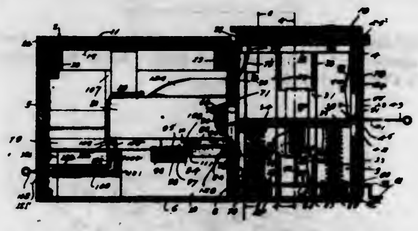
1. A gate fastener including a gate frame, panels carried by said frame, fastening members slidably mounted on said frame for engagement with a keeper, an actuating member journaled to said frame and connected to the fastening members, a handle pivotally connected to the actuating member for rotating the same in either direction, and a fastener carried by the panels and adapted to receive the handle for holding the actuating member against rotation.

1,387,402. STOVE-BOARD. AUGUST HUTCH, Chicago, Ill. Filed Nov. 4, 1920. Serial No. 421,725. 3 Claims. (Cl. 126—278.)



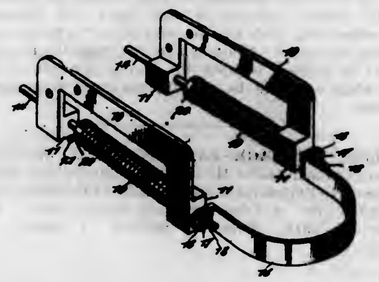
1. A stove board having upstanding sides and a cover plate secured to said sides thereby forming a compartment, a tray slidable within said compartment, and yieldable means within the compartment and engaging the tray to hold the same in a set position.

1,387,403. DAYLIGHT TANK-LOADING MACHINE. CELESTIN E. JECHORT, Lankin, N. D. Filed Oct. 3, 1919. Serial No. 328,114. 20 Claims. (Cl. 95—90.)



1. A tank loader including a closed casing, a tank removably positioned in the casing, a plate holder removably positioned in the casing, means for releasing the plate from the holder, means for receiving the plate, and means for forcing the plate from the plate receiving means into the tank.

1,387,404. PICKER-CHECK FOR LOOMS. DIEU DONNE JODOIN, Plainfield, Conn. Filed Apr. 22, 1921. Serial No. 463,536. 1 Claim. (Cl. 139—22.)

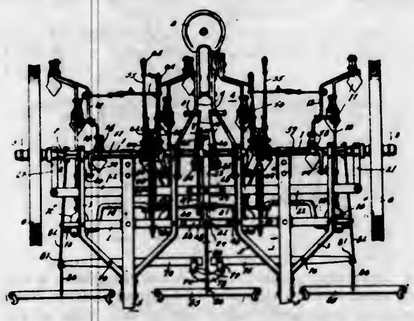


A device as characterized including a support, a pair of brackets attached to said support in spaced relation to each other and having bearings, rods slidably mounted in the bearings of said brackets, a check-member detachably connecting the rods and adjustable thereon, and check-member tensioning means including adjustable stops on said rods and springs between the stops and a bearing of each bracket respectively.

1,387,405. CULTIVATOR. LEE H. KAUPKE, Rock Island, Ill., assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Filed July 27, 1917. Serial No. 183,154. 7 Claims. (Cl. 97—35.)

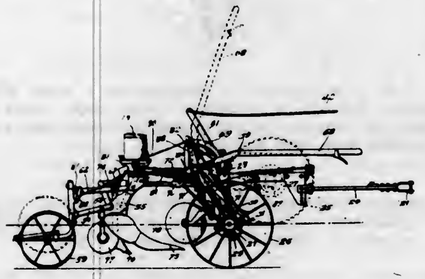
1. In a cultivator, a frame, an axle, supporting wheels mounted thereon, a transversely extending steering bar connecting said wheels, foot-lever mechanism for moving said steering bar to angle said wheels, cultivator gangs mounted on said frame, a longitudinally extending arm mounted at its rear end and said axle and connected near its forward end to said cultivator gangs, means intermediate of said connections for connecting said longitudinal member to said steering bar, whereby said wheels may be angled and said gangs swung laterally simultaneously, and means for connecting the forward end of said longitudinal member to said frame to thereby lock said wheels and gangs in a straight-ahead position.

5. In a cultivator, a frame, supporting wheels therefor, a pair of vertically movable cultivator gangs supported by said frame, a shaft, connections from said shaft to one of said gangs, whereby rotation of said shaft causes said gangs to be raised, a hand lever rigidly mounted on said shaft for rotating the same, a toothed rack mounted adjacent said hand lever and loosely mounted upon said shaft, a second hand lever loosely mounted upon said shaft and connections from said second lever to said gang



for raising the same, a second toothed rack associated with said second lever and loosely mounted upon said shaft, said racks being rigidly connected together, a spring tooth for each hand lever for engaging the respective toothed rack, whereby said hand levers can be held in adjusted position, and spring means for shifting the position of said toothed racks to thereby simultaneously raise said disk gangs, said spring means operating to hold said gangs in their raised position.

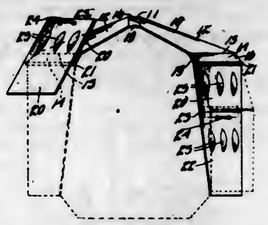
1,387,406. POWER-LIFT LISTER. LEE H. KAUPKE, Rock Island, Ill., assignor to Rock Island Plow Company, Rock Island, Ill., a Corporation of Illinois. Filed July 7, 1919. Serial No. 309,054. 20 Claims. (Cl. 97—55.)



1. In a power lift implement, a plurality of plow beams, a transverse axle secured to said beams and having offset laterally extending end portions, supporting wheels mounted upon said end portions, clutch mechanism associated with each of said wheels, a single controlling means for controlling the operation of both of said clutch mechanisms, whereby the power derived from said supporting wheels operates to rock said axle to thereby raise said plow beams, and means for automatically disconnecting the power from the axle when said beams have been raised to a predetermined height above the ground.

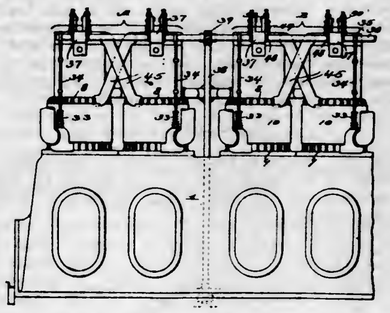
1,387,407. AUTOMOBILE-HOOD. WILLIAM A. KING, Memphis, Tenn. Filed May 17, 1920. Serial No. 382,138. 3 Claims. (Cl. 180—69.)

1. A vehicle hood comprising a stationary central sheet, a flat closure leaf pivoted to and depending from the edge of the central sheet, a second flat closure leaf pivoted to and depending from the lower edge of the first mentioned



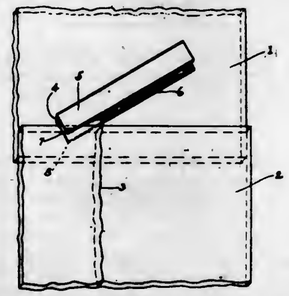
closure leaf, said leaves being held by gravity in contact with each other and with the central sheet when the hood is opened, substantially as set forth.

1,387,408. INTERNAL-COMBUSTION ENGINE. HARMON J. KLINE, Lansing, Mich. Filed June 11, 1917. Serial No. 174,155. 11 Claims. (Cl. 60—15.)



1. In an internal combustion engine, the combination of a pair of units each comprising high pressure and low pressure cylinders, pistons reciprocable in said cylinders of each unit and operative in unison, the pistons of one unit moving in reverse direction to the movement of the pistons in the other unit of the pair, a pumping chamber located between said high pressure and low pressure cylinders of each unit and in communication with a face of one of the respective pistons, and a conduit connecting the pumping chamber of each unit to the inlet of the high pressure cylinder of the other unit of the pair.

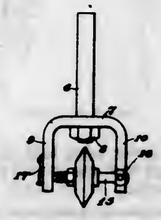
1,387,409. CLAMP FOR GREENHOUSE-ROOFS. ALEXANDER KLOKNER, Wauwatosa, Wis. Filed Feb. 17, 1921. Serial No. 445,618. 3 Claims. (Cl. 108—16.)



1. A repair clamp for broken panes of glass, comprising a rear portion and a pair of arms extending therefrom, one

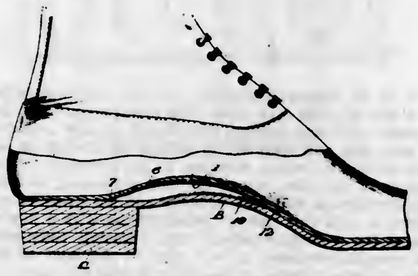
of said arms having an outwardly turned ear to automatically aid in guiding the associated arm over the edge of the pane.

1,387,410. SOUND-REPRODUCER MOUNTING. FRITZ KORABITZ, San Francisco, Calif. Filed May 4, 1920. Serial No. 378,894. 2 Claims. (Cl. 274—38.)



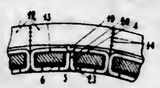
1. A stylus mounting comprising a shank, a bracket secured to said shank and terminating in slotted arms, a spindle pivoted at one end to one arm of said bracket, and detachably fastened to the other arm of said bracket, a disk shaped sound reproducing member mounted on said spindle, and stops on said spindle to retain said sound reproducing member in a vertical position, one of said stops being integral with said spindle, and the other of said stops being adjustable on said spindle.

1,387,411. ARCH-SUPPORT. JOHN F. KOLKEBECK, New York, N. Y. Filed July 12, 1919, Serial No. 310,457. Renewed Nov. 27, 1920. Serial No. 426,849. 2 Claims. (Cl. 36—71.)



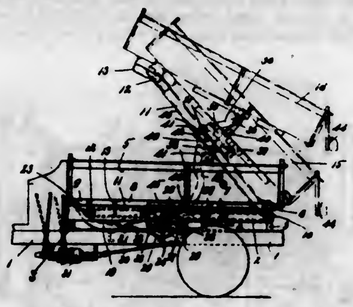
1. As an article of manufacture, an arch and instep brace formed from a single piece of material arched to conform to the human foot and having its end slitted longitudinally to form resilient supporting members, the extremities of said members being transversely corrugated.

1,387,412. MUDGUARD FOR MOTOR-CARS. JEAN-BAPTISTE MARIUS BENONIN LAGGIARD, Marseille, France. Filed Aug. 20, 1919. Serial No. 318,706. 4 Claims. (Cl. 280—156.)



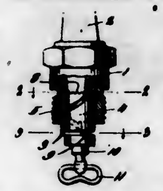
3. A wheel mudguard comprising a screen made up of a plurality of sections, a fastening member to overlie a portion of each section and engage beneath the wheel rim, and means to engage said member and interlock with the wheel rim.

1,387,413. COMBINED DUMPING AND REAR-END-ELEVATING VEHICLE-BODY. GEORGE W. LALLY, Boston, Mass., assignor to The Lally Commercial Body Company, Everett, Mass., a Corporation of Massachusetts. Filed Dec. 2, 1918. Serial No. 264,940. 4 Claims. (Cl. 298—11.)



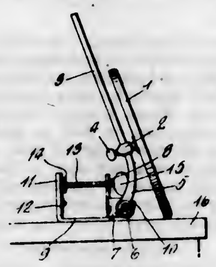
1. Apparatus of the kind described comprising a vehicle body adapted to be raised in an inclined position, hoisting means for raising the front end of said body at an inclined position and means operable at will to automatically elevate the rear end of said body while maintaining the same inclined, said means comprising arms, each having a projecting finger-like member to engage a lifting portion at will.

1,387,414. SPARK-PLUG CLEANER. EMERY G. LA VOIE, Greenwich, Conn. Filed May 26, 1921. Serial No. 472,633. 6 Claims. (Cl. 83—64.)



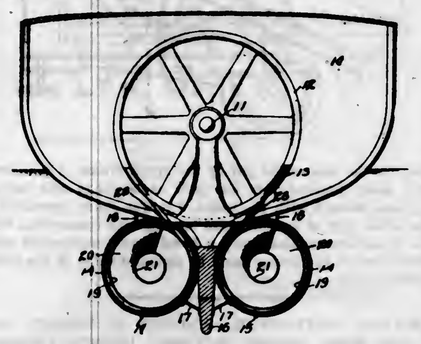
1. As a new article of manufacture, a spark plug cleaner including a cylindrical hollow shell having a spiral slot therein, one end of said shell being open and provided with teeth thereon.

1,387,415. MIRROR-SUPPORT. WALKER C. LEE, Loudonville, Ohio. Filed Mar. 30, 1921. Serial No. 456,885. 1 Claim. (Cl. 45—97.)



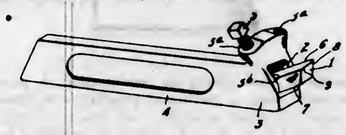
A device of the character described comprising a mirror, a post extending from the back of the mirror and provided with a perforation extending parallel with the plane of the mirror, a set screw extending through said post, a rod extending through the perforation in the post and adapted to be secured therein by said set screw, said mirror having a longitudinal adjustment on said rod and an angular adjustment about said rod, a curved arm extending from one end of the rod, a clamp piece, means whereby said clamp piece may be secured to a support, a curved lug extending from said clamp piece, means for pivotally holding said rod on said lug, and means whereby the lug and rod may be secured together against relative movement, substantially as described.

1,387,416. PROPELLER. JOHN M. LEMIEUX, Bath, Me. Filed Mar. 7, 1921. Serial No. 450,254. 6 Claims. (Cl. 115—34.)



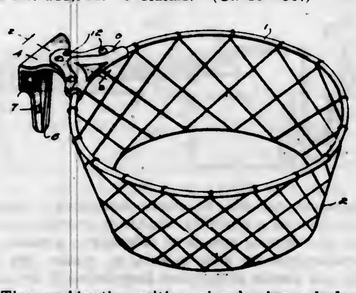
1. A propeller comprising impelling means, supporting means for the outer edges thereof, and a tubular support for the inner edges of said impelling means allowing free passage of the water therethrough, substantially as set forth.

1,387,417. CUTTING-TOOL AND HOLDER THEREFOR. PATRICK T. LENNON, Cleveland, Ohio. Filed Oct. 11, 1920. Serial No. 416,009. 7 Claims. (Cl. 29—96.)



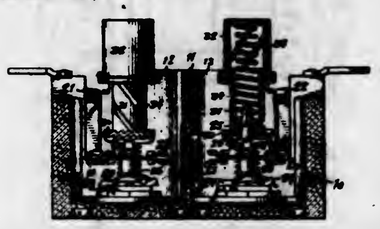
1. In a device for cutting metal in combination, a cutting tool having a cutting edge, each end of the said edge being adapted for either right or left hand cutting without alteration of the cross section of the tool, and a holder having an opening adapted to receive the said tool for either right or left hand cutting and to position it with suitable side clearance at the cutting edge.

1,387,418. GOAL FOR ATHLETIC GAMES. DUANE M. LILLIBRIDGE, St. Charles, Ill. Filed Jan. 31, 1921. Serial No. 441,351. 3 Claims. (Cl. 46—59.)



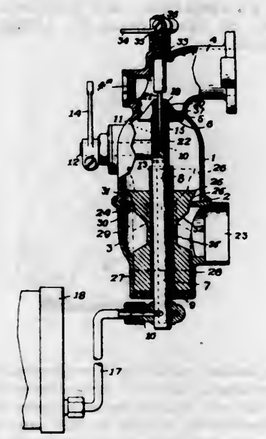
1. The combination with a ring having a body portion and an off-set portion arranged in the plane of the body portion, and a net secured thereto, of a bracket comprising a pair of plates, each of said plates being provided with registering grooves corresponding in shape to the offset in said ring and adapted to receive the off-set portion of said ring, and means for securing said plates to each other to retain the ring in said grooves.

1,387,419. ELECTRIC SWITCH. FRED W. LOEFFLER, Irondequoit, N. Y., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 3, 1917. Serial No. 140,479. 3 Claims. (Cl. 200—64.)



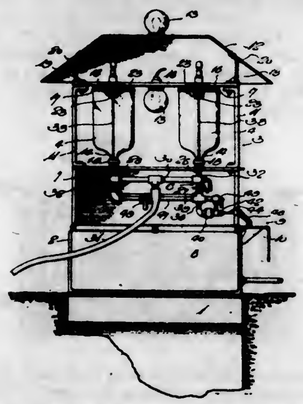
1. An electric switch comprising a cup-shaped insulating body, barrier means subdividing the interior thereof into separate switch chambers, independent switch mechanisms and switch terminals mounted in said switch chambers, wire terminals at the opposite ends of said body respectively connected to said independent switch terminals, in combination with a wire terminal mounted on said body and comprising a strap having lugs offset into the respective switch chambers to coöperate with the switch mechanisms therein, substantially as described.

1,387,420. CARBURETER. NATHANIEL LOMBARD, Worcester, Mass., assignor to Lombard Carburetor Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 27, 1917. Serial No. 188,264. 5 Claims. (Cl. 261—50.)



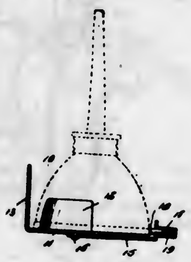
1. In the carbureter of an internal combustion engine, the combination of a casing inclosing three separate chambers, namely, mixing, vacuum and air chambers located one above the other in the order named with the mixing chamber uppermost, with valve controlled openings between each of said chambers, said air chamber having a communication with the outside air, a valve for closing the opening between the mixing and vacuum chambers, provided with a hollow valve stem extending through the bottom of the casing and having a connection outside the casing between said valve stem and a source of fuel supply.

1,387,421. GASOLENE SERVICE-STATION. URIAH R. MCCUTCHEN, Springfield, Ill., assignor of one-third to John A. Bryden and one-third to James A. Hall, Springfield, Ill. Filed Apr. 15, 1919. Serial No. 290,202. 8 Claims. (Cl. 221—100.)



3. In a liquid dispensing system, a dispensing container having outlet means and a supply tank below said container, supply piping from said tank to said container, and means for supplying said cotnainer with liquid by way of said piping, a valve in said supply piping for normally preventing return of liquid through said piping, a housing for parts of said system having a door to be closed when operation of said system is to be discontinued, and means for controlling said valve from said door to hold the former against closing when said door is closed, whereby drainage of the system may take place through said piping.

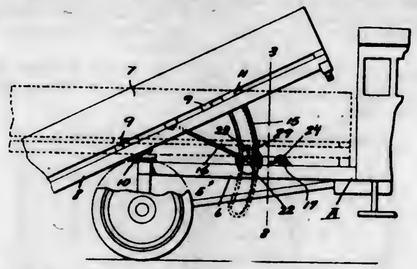
1,387,422. CAN-HOLDER. ROY MCGREGOR, Miami, Ariz. Filed Nov. 23, 1920. Serial No. 425,991. 2 Claims. (Cl. 248—20.)



1. A can holder embodying a supporting bracket, said bracket including a base and means extending from said base upon one side thereof for engagement with the can, an arm eccentrically pivoted to the base and a spring actuated lug carried by the free end of the arm for frictional engagement with the can.

1,387,423. TRUCK-BODY TILTING OR DUMPING DEVICE. CUMIAN J. MCTIGHE, Cedar Canyon, S. D. Filed June 17, 1919. Serial No. 304,760. 1 Claim. (Cl. 298—19.)

The combination with a wheeled truck frame having channeled side sills, of a tilting body having a part provided with slots in its sides, means pivotally securing the tilting body on the truck frame, lifting rack depending from the body forwardly of its axis of movement and having a cross-piece adjustably engaged in the slots in the bed of said body to permit variable changing of the rack, pairs of bearings each having a companion base flange and jaw for engagement with the channeled sill of the truck frame, set screws carried by the base flanges of said bearings for locking the latter in adjusted position on the channeled sill of the truck frame, a transmission shaft journaled in one pair of bearings and having pinions meshed with the racks, a power shaft journaled in the other pair of bearings and having gear connection with the transmission shaft and a hand crank engageable with either end of the power shaft at opposite sides of the truck frame.

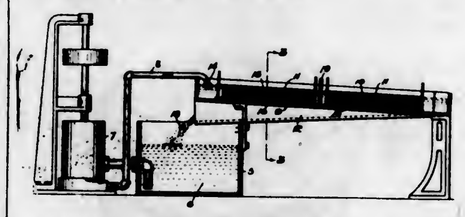


1,387,424. REFLECTOR. MATTHEW M. MERRITT, Danvers, Mass., assignor to Copper Products Company, Boston, Mass., a Corporation of Maine. Filed July 19, 1917. Serial No. 181,636. 2 Claims. (Cl. 240—103.)



1. A reflector, comprising in combination, a glass, silvering on said glass, a coating of graphite and linseed oil back of said silvering, a coating of relatively high conductive material back of said coating of graphite and linseed oil, and a sheet of electrolytically deposited metal back of said relatively high conductive coating.

1,387,425. ELECTROLYTIC PROCESS AND APPARATUS. MATTHEW M. MERRITT, South Middleton, Mass., assignor to Merritt Metals Company, Salem, Mass., a Corporation of Maine. Filed Oct. 13, 1919. Serial No. 330,403. 5 Claims. (Cl. 204—5.)



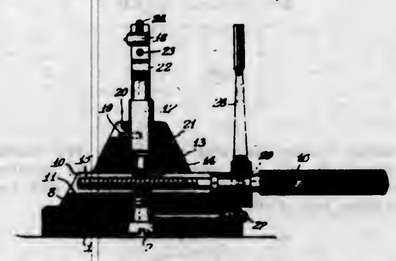
1. Apparatus for use in electro-deposition comprising means for holding a plurality of objects distributed longitudinally of a flowing stream of electrolyte, negative electrical connections to said objects to render the same cathodes, and anodes distributed lengthwise of the stream adjacent said cathodes.

1,387,426. METHOD OF SOLDERING ALUMINUM. MATTHEW M. MERRITT, South Middleton, Mass., assignor to Merritt Metals Company, Salem, Mass., a Corporation of Maine. Filed Oct. 13, 1919. Serial No. 330,404. 10 Claims. (Cl. 204—3.)



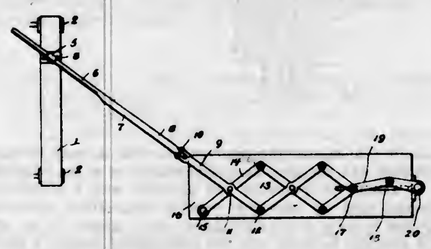
1. The method of preparing aluminum for a soldering operation which comprises initially treating the surface of the aluminum with a solution containing muriatic acid and then electrolytically depositing copper thereon.

1,387,427. WHEEL-DRESSING TOOL. OTTO A. MILLER, Detroit, Mich. Filed May 3, 1919. Serial No. 294,462. 5 Claims. (Cl. 125—11.)



1. A wheel dressing tool comprising a base, a rotatable guide member on said base and provided with a tongue, an adjustable support having connection with the tongue of said guide member, an adjustable holder carried by said support, a diamond mounting carried by said holder, a nut and screw adapted for adjusting said support relative to the tongue of said rotary guide member, and a gage carried by said rotatable guide member and disposed in parallelism with said holder.

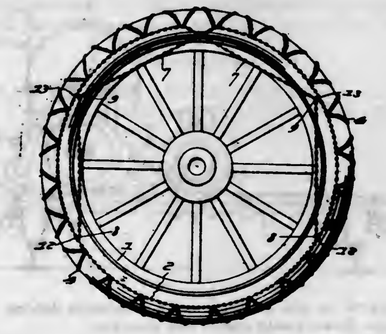
1,387,428. MECHANICAL MOVEMENT. WILLIAM MOIR, Chicago, Ill. Filed Nov. 15, 1919. Serial No. 338,289. 4 Claims. (Cl. 74—14.)



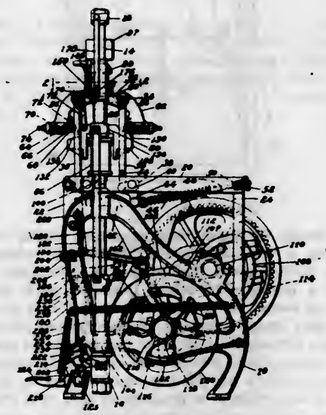
2. In combination with a belt, a sleeve having an adjustable connection with the belt and lever having one end portion slidably mounted in the sleeve and an extensible device actuated by the movement of the lever and an element for guiding the movement of the device.

1,387,429. GRIP-CHAIN FOR AUTOVEHICLES. NICHOLAS E. MONTGOMERY, Blackfoot, Idaho. Filed Mar. 17, 1919. Serial No. 283,163. 2 Claims. (Cl. 152—14.)

2. A device of the kind described comprising a pair of side chains and a plurality of cross chains interconnecting the two, the side chains having extension sections provided with terminal and intermediately positioned fasteners, the extension sections overlapping each other when the device is attached to the tire, the terminal fasteners being engaged with the side chains previous to the intermediate fasteners, whereby tension is created in the side chains in the manner and for the purpose specified.



1,387,430. STRETCHING-MACHINE. JOHN B. HADAWAY, Swampscott, and THOMAS H. SEELY, Malden, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 5, 1918. Serial No. 220,495. 94 Claims. (Cl. 69—8.)

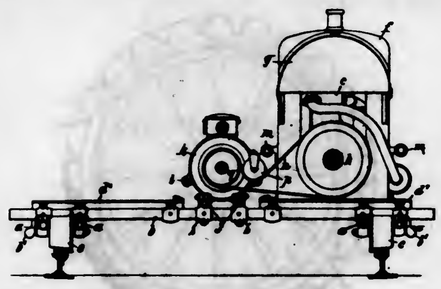


7. In a machine of the class described, a form for cooperation with the material to be operated upon, means operating successively under the control of the machine for placing the material under tension to stretch it across the form, and yieldable connections for the tension-applying means, said connections being differently and progressively tensioned during the successive operations.

1,387,431. GENERATING SET MOVABLE UPON RAILS. ALBERT COLLET, Paris, France, assignor to Societe Maurice et Pierre Collet & Cie., Paris, France. Filed Apr. 28, 1915. Serial No. 24,617. 4 Claims. (Cl. 105—102.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

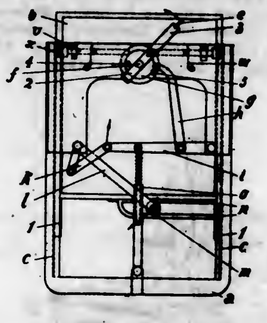
1. A mobile electricity generating set for use on rails and adapted for quick removal from the rails, comprising

a carriage, a manually removable internal combustion engine unit removably seated on said carriage, an electric



generator on said carriage, and a detachable driving connection between said engine and generator.

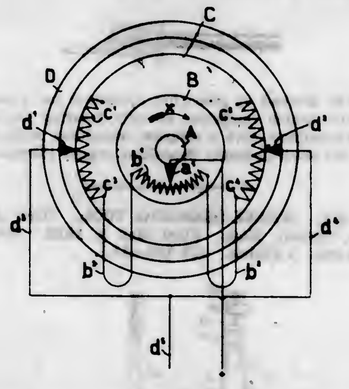
1,387,432. WINDOW-OPERATING MECHANISM. CONRAD GERHARD, Munich, Germany, assignor to "Anfag" Aktiengesellschaft, Glarus, Switzerland. Filed Aug. 12, 1920. Serial No. 403,161. 4 Claims. (Cl. 268—4.)



1. A device for fixing and actuating sliding windows, comprising a window adapted to slide in recesses of a frame, a folding lever rigidly fixed to a turnably mounted axle, a plurality of levers linked to each other and operatively connected to said folding lever and to the window so that upon a turning of said folding lever in one of the two directions of rotation the window is raised and lowered respectively, lateral rods operatively connected to clamping members provided in the recesses in which the window glides whereby a pressure of said rods causes the clamping members to be pressed against the window and fix the latter in any given elevation, and an operative connection between said folding lever and the lateral rods so that upon a folding of the lever said rods are caused to actuate said clamping members.

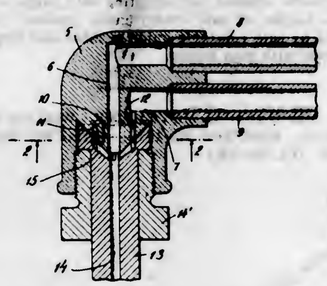
1,387,433. SYSTEM OF CONNECTIONS. HERMANN SUNDHAUSSEN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,088. 2 Claims. (Cl. 219—20.)

1. System of connections for regulating the strength of a current in the divisions of a two-part divided current circuit, characterized by the fact, that two points of a variable resistance (b^1) movable relatively to a conducting piece (a^1) electrically connected to one pole of a source of current which forms the starting point of the current division, are respectively connected to one end of two variable resistances (c^3, c^4) movable conjointly relatively to the aforesaid variable resistance (b^1) and that the conjointy movable variable resistances (c^3, c^4) have



in rubbing contact therewith respectively two conducting pieces (d^3, d^4) also movable conjointly relatively thereto and from which a common conductor (d^5) leads to the other pole of the source of current.

1,387,434. BLOWPIPE. GEORGE L. WALKER, New York, N. Y., assignor to Air Reduction Company, Incorporated, a Corporation of New York. Filed May 1, 1919. Serial No. 294,004. 4 Claims. (Cl. 158—27.4.)

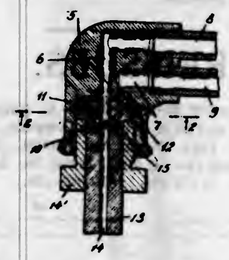


1. In a blowpipe, the combination with a head having oxidizing and combustible gas passages, of a tip adapted to be assembled therewith and provided with a discharge passage, said tip and head having coöperating surfaces adapted to form a gas tight joint, and a groove in one of said surfaces forming with the coöperating surface a passage of uniformly diminishing cross sectional area arranged to deliver combustible gas to said discharge passage.

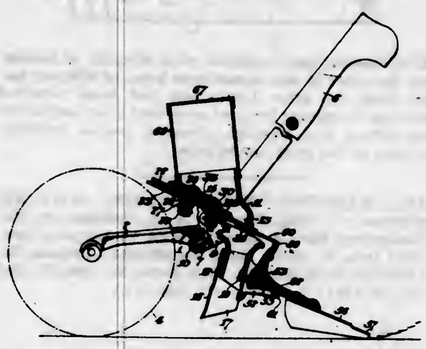
1,387,435. BLOWPIPE. GEORGE L. WALKER, New York, N. Y., assignor to Air Reduction Company, Inc., a Corporation of New York. Original application filed May 1, 1919, Serial No. 294,004. Divided and this application filed Nov. 20, 1920. Serial No. 425,334. 1 Claim. (Cl. 158—27.4.)

In a blow pipe, the combination with a head having oxidising and combustible gas passages, of a tip adapted to be assembled therewith and provided with a discharge passage, said head having a projecting conical seat and

said tip having a corresponding recessed surface provided with a groove of substantially uniform depth and diminishing width to provide a passage of diminishing cross sectional area arranged to deliver combustible gas to said discharge passage.



1,387,436. SEED-SOWING DEVICE. SAMUEL L. ALLEN, deceased, Moorestown, N. J., by Sarah H. Allen, Elisabeth R. Allen, Susan J. Allen, and Charles J. Allen, executors, Moorestown, N. J. Original application filed Mar. 29, 1916, Serial No. 87,385. Divided and this application filed Dec. 15, 1919. Serial No. 345,010. 10 Claims. (Cl. 221—120.)

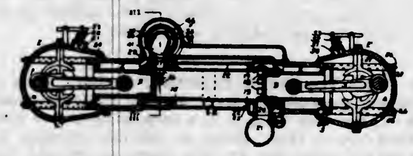


1. In a seed sowing device, the combination with a hopper having a discharge outlet, of a serrated agitator movable laterally across said outlet.

1,387,437. LUBRICATING COMPOUND. ROBERT MCLEOD, Auckland, New Zealand. Filed Mar. 8, 1919. Serial No. 281,478. 1 Claim. (Cl. 87—9.)

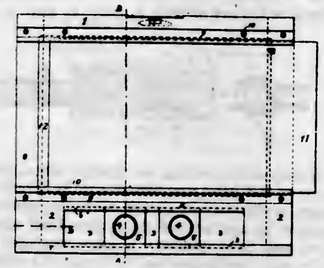
A compound for lubricating and other purposes, consisting of an intimate mixture, uniform throughout, of about eight parts of rubber and one part of tallow.

1,387,438. INTERNAL-COMBUSTION ENGINE. GEORGE F. DILLIG, Pittsburgh, Pa. Filed Jan. 13, 1921. Serial No. 436,910. 16 Claims. (Cl. 123—51.)



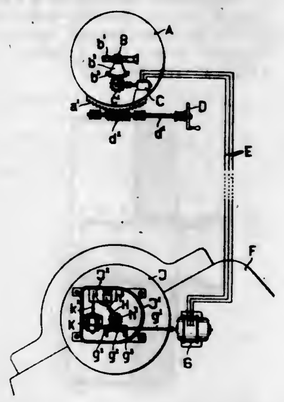
1. In a balanced two stroke internal combustion engine, the combination of a group of units each comprising a pair of alined compressor cylinders and a firing cylinder of less diameter interposed between the same, a pair of differential pistons working in opposite directions in each of said units, a pair of crank shafts at opposite ends of said units coupled to the adjacent pistons, and means whereby the air compressed in the compressor cylinders of each unit is discharged into the firing cylinder of the unit next in order of firing.

1,387,439. DRAWING AND PAINTING GLASS. ANSON K. CROSS, Ashland, Mass. Filed Oct. 16, 1916. Serial No. 125,834. 5 Claims. (Cl. 35—12.)



1. A painting corrector comprising a spirit level and means for producing side by side two blurred images, one of the subject and the other of its representation, and a frame in which said elements are so mounted that the spirit level indicates the correct leveling of both the frame and the image-producing means.

1,387,440. FIRE-CONTROL APPARATUS PARTICULARLY INTENDED FOR NAVAL GUNS. WALTHER AKEMANN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,072. 7 Claims. (Cl. 89—41.)



1. An apparatus of the class described which comprises a sighting device, means for stabilizing said sighting device, an indicator mounted adjacent the trunnion of a gun, electrical means operatively connecting the sighting device to the indicator, a circuit closing piece carried by said indicator, a second indicator coöperating with the first mentioned indicator, and operatively connected so as to take part in the elevating movement of the gun barrel, said second indicator embodying means which coöperate with the first mentioned indicator and circuit-closing piece, substantially as and for the purpose set forth.

1,387,441. PROCESS OF PRODUCING CELLULOSE. CARL ALFRED BRAUN, Munich, Germany, assignor to Hildegard Marie Lachmann, Rudolf Georg Lachmann, and Gerhard Hans Lachmann, Berlin, Germany. Filed Apr. 1, 1920. Serial No. 370,603. 8 Claims. (Cl. 92—11.)

1. The process which consists in heating vegetable matter with a watery solution of an alkali sulfite and an alkali sulfid.

1,387,442. LOCKING DEVICE. HENRY JAMES LEE, London, England. Filed June 9, 1920. Serial No. 387,752. 4 Claims. (Cl. 70—47.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

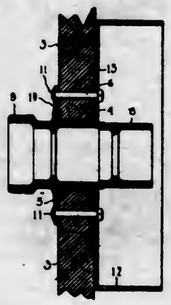


1. A locking device having in combination a cylindrical casing, rotary and fixed members co-axially located within said casing, a plurality of spring controlled plungers disposed parallel to and around the longitudinal axis of the said rotary and fixed members, a screw threaded member operable by said rotary member for imparting a longitudinal movement to the said screw threaded member.

1,387,443. METHOD OF OBTAINING IRON AND TIN FROM TIN SCRAP. PHILIP ALEXANDER MACKAY, New York, N. Y. Filed Apr. 4, 1921. Serial No. 458,468. 8 Claims. (Cl. 75—56.)

8. A method of separating the tin and iron in tin scrap which comprises subjecting the scrap to the action of sulfuric acid containing free sulfur trioxid in solution by successively dipping the scrap in the acid for short periods, and subsequently washing the separated iron in water, and recovering the oxidized tin from the acid solution and the water as set forth.

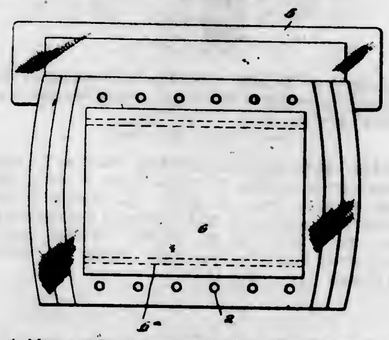
1,387,444. COMBINED WHEEL-HUB AND BRAKE-DRUM. JOHN W. WHITE, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Aug. 8, 1919. Serial No. 316,266. 4 Claims. (Cl. 301—6.)



1. In a combined wheel hub and brake drum construction, a hub having an outwardly extending flange intermediate its ends; a sleeve surrounding said hub and having two outwardly extending flanges spaced apart from one another, and one of which is in contact with the flange of said hub; a plurality of separate and independent spokes the inner ends of which abut against said sleeve and are held in place between the flanges thereof; a brake drum having an inwardly extending flange in contact with the other of the flanges of said sleeve; and a plurality of fastening bolts extending through holes provided in the flanges of said hub and brake drum and through holes provided in said spokes and whereby the elements aforesaid are secured together.

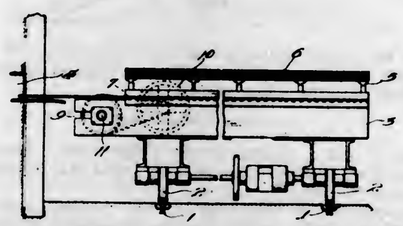
REISSUES.

15,174. BLOW-OUT BOOT. JOHN A. BARNES, Dallas, Tex., assignor to Fowler-Williams Company, Dallas, Tex. Filed June 23, 1921. Serial No. 479,924. Original No. 1,364,677, dated Jan. 4, 1921, Serial No. 384,395, filed May 26, 1920. 4 Claims. (Cl. 152—24.)



2. A blow-out boot composed of a plurality of laminations, the outer of said laminations being of different material from the other laminations and being detached therefrom throughout its great area, said outer lamination being formed of a material possessing greater flexibility than that of the other laminations.

15,175. MAGNETIC SKELP-CHARGING MACHINE. STEWART C. COEY, Newark, N. J., assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Filed June 27, 1921. Serial No. 480,911. Original No. 1,019,759, dated Mar. 12, 1912, Serial No. 668,578, filed Dec. 29, 1911. 5 Claims. (Cl. 198—47.)



1. The combination of a furnace, a charging table at one end thereof and a rotating magnetic roller having its axis below the table and having surface travel toward the furnace, said surface of the magnetic roller being arranged to be engaged by linear magnetic materials and to transfer the same to the furnace, the table being extended on one side of the magnetic roller to afford a storage space for said material prior to its delivery to the surface of the magnetic roller, substantially as described.

15,176. PORTABLE ELECTRIC LIGHT. JOHN T. DRUFVA, Longmeadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y., a Corporation of New York. Filed Nov. 8, 1920. Serial No. 422,736. Original No. 1,287,919, dated Dec. 17, 1918, Serial No. 183,653, filed July 31, 1917. 9 Claims. (Cl. 240—8.5.)

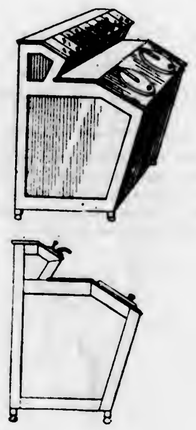
9. In a battery hand lamp having a metallic casing part and a metal reflector at one end thereof, an insulating ring seated on said casing part and in which said reflector is adapted to seat, and a conductor passing inside of



said ring and sustained thereby against lateral displacement and contacting with said reflector.

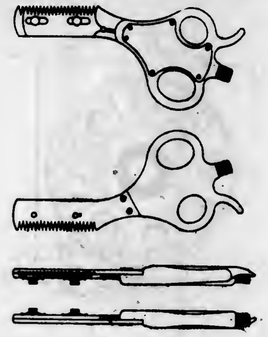
DESIGNS.

58,657. SODA-FOUNTAIN AND ICE-CREAM-DISPENSING APPARATUS. WILLIAM F. BEATTY, Cincinnati, Ohio. Filed Nov. 8, 1920. Serial No. 422,744. Term of patent 7 years.



The ornamental design for a soda fountain and ice-cream dispensing apparatus, as shown.

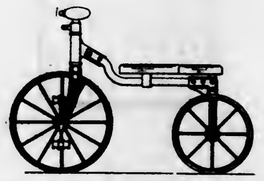
58,658. POWER HAIR-CUTTER. JOHN G. BEGHARA, Lawrence, Mass. Filed Dec. 29, 1920. Serial No. 433,945. Term of patent 7 years.



The ornamental design for a power hair cutter, as shown.

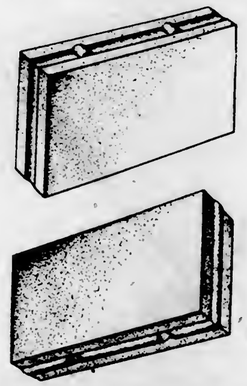
58,659. CHILD'S VEHICLE. JOHN THOMAS CASEY, Philadelphia, Pa., assignor to Keystone Lantern Company, Philadelphia, Pa. Filed Feb. 3, 1921. Serial No. 442,296. Term of patent 7 years.





The ornamental design for a child's vehicle as shown.

58,660. BUILDING-BLOCK. HARRY E. CLOUSER and EDGAR R. THORNTON, Stockton, Calif. Filed Aug. 16, 1920. Serial No. 403,953. Term of patent 14 years.



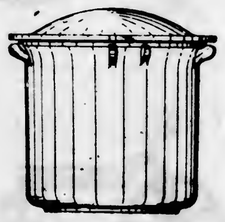
The ornamental design for a building block, as shown.

58,661. GAME-BOARD. ALBERT COHN and LOUIS H. DEBS, Chicago, Ill. Filed June 13, 1921. Serial No. 477,283. Term of patent 7 years.



The ornamental design for a game board, as shown.

58,662. PRESSURE-COOKER. THOMAS VINCENT CONNOR, Denver, Colo. Filed Jan. 24, 1921. Serial No. 439,697. Term of patent 14 years.



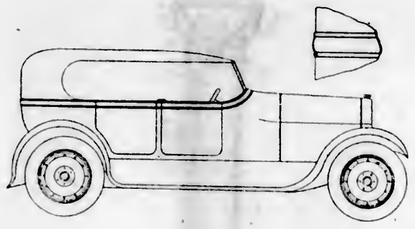
The ornamental design for a pressure cooker, as shown.

58,663. COMBINATION-TOOL. ALFRED H. CRAMPTON, Stockton, Calif. Filed Feb. 25, 1921. Serial No. 447,881. Term of patent 7 years.



The ornamental design for a combination tool, as shown.

58,664. AUTOMOBILE-BODY MOLDING. HARLEY J. EARL, Los Angeles, Calif. Filed Sept. 8, 1920. Serial No. 408,029. Term of patent 3½ years.



The ornamental design for an automobile body molding as shown.

58,665. AUTOMOBILE-BODY. HARLEY J. EARL, Los Angeles, Calif. Filed Nov. 16, 1920. Serial No. 424,556. Term of patent 3½ years.

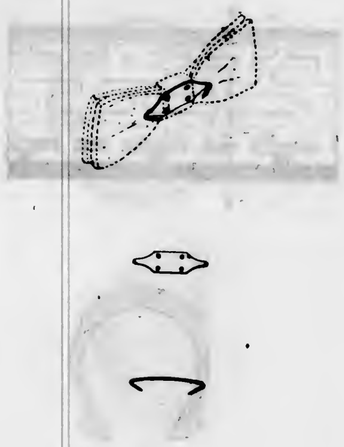
The ornamental design for an automobile body as shown.

58,666. SCREW OR SIMILAR ARTICLE. JOHN P. EUSTIS, Newton, Mass., assignor to J. P. Eustis Manufacturing Company, Cambridge, Mass., a Corporation of Massachusetts. Filed Sept. 27, 1920. Serial No. 413,253. Term of patent 14 years.



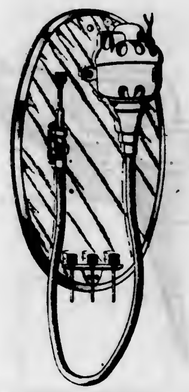
The ornamental design for a screw or similar article, as shown.

58,667. COMBINED TIE-FASTENER AND SOFT-COLLAR RETAINER. HUGO I. FELIX, Kansas City, Mo. Filed Mar. 7, 1921. Serial No. 450,493. Term of patent 14 years.



The ornamental design for a combined tie fastener and soft collar retainer as shown.

58,668. COMBINED TOOTH-CLEANER AND SUPPORT. LOUIS A. GABLE, Harrisburg, Pa. Filed Nov. 22, 1920. Serial No. 425,916. Term of patent 14 years.



The ornamental design for a combined tooth cleaner and support as shown.

58,669. COMBINATION TOOTH-CLEANER AND SUPPORT. LOUIS A. GABLE, Lancaster, Pa. Filed Dec. 27, 1920. Serial No. 433,498. Term of patent 14 years.



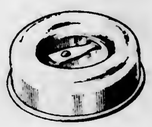
The ornamental design for a combination tooth cleaner and support, as shown.

58,670. GAME-BOARD. GEORGE P. GARIN, Chicago, Ill. Filed Apr. 27, 1921. Serial No. 464,992. Term of patent 7 years.



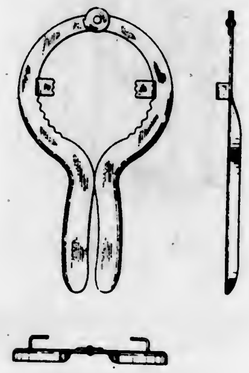
The ornamental design for a game board, as shown.

58,671. BOTTLE-CAP. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Jan. 18, 1921. Serial No. 438,250. Term of patent 14 years.



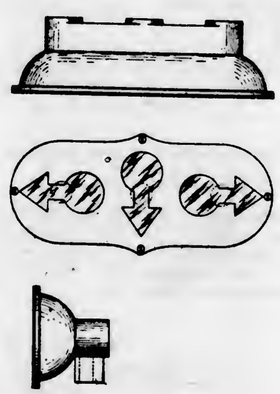
The ornamental design for a bottle cap, substantially as shown.

58,672. FRUIT-JAR OPENER. ARTHUR R. GURNETT, Toronto, Ontario, Canada. Filed Feb. 18, 1921. Serial No. 446,190. Term of patent 14 years.



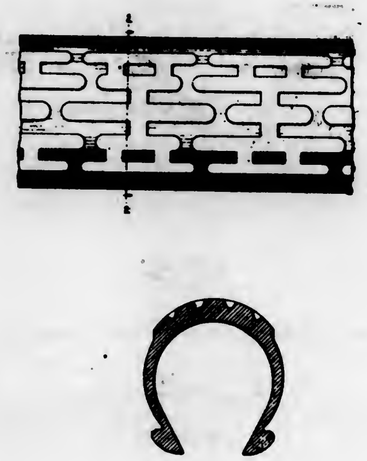
The ornamental design for a fruit jar opener, as shown.

58,673. TRAFFIC-SIGNAL. JOHN P. HOTZ, Newton, Mass. Filed Feb. 28, 1921. Serial No. 448,604. Term of patent 7 years.



The ornamental design for a traffic signal as shown.

58,674. TIRE-TREAD. WILLIAM G. LEECH, Akron, Ohio, assignor to India Tire and Rubber Company, Magadore, Ohio. Filed Mar. 26, 1921. Serial No. 455,991. Term of patent 14 years.



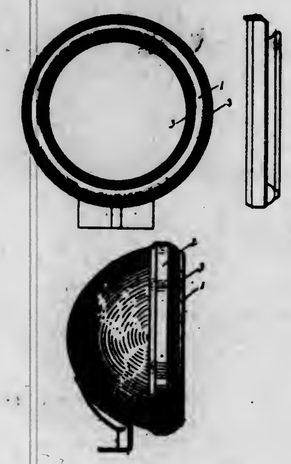
The ornamental design for a tire tread, as shown.

58,675. BATTERY-CONNECTOR. GUSTAVE E. LUNDBERG, Kewanee, Ill. Filed Feb. 2, 1920. Serial No. 355,772. Term of patent 14 years.



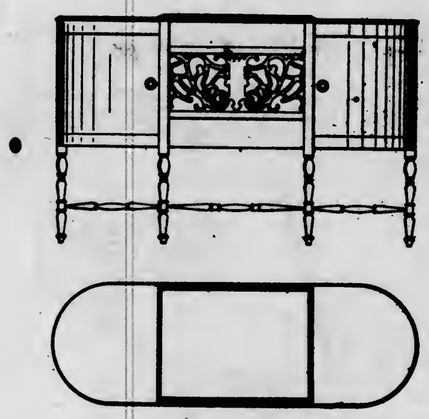
The ornamental design for a battery connector, as shown.

58,676. LAMP-DOOR. NEIL MACNEALE, Cincinnati, Ohio, assignor to the Corcoran-Victor Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 15, 1920. Serial No. 366,113. Term of patent 7 years.



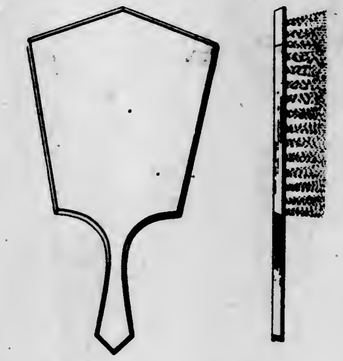
The ornamental design for a lamp door, as shown.

58,677. PHONOGRAPH-CABINET. HENRY L. MEIDINGER, Sioux City, Iowa. Filed Apr. 28, 1921. Serial No. 463,966. Term of patent 7 years.



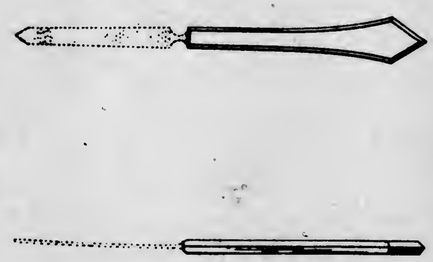
The ornamental design for a phonograph cabinet, as shown.

58,678. BACK FOR A BRUSH, MIRROR, OR THE LIKE. HARRY DANIEL MOSAUER, New York, N. Y., assignor to Tuskeloid Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 29, 1920. Serial No. 427,233. Term of patent 7 years.



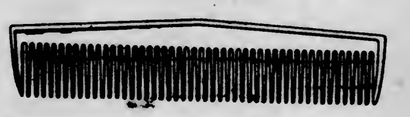
The ornamental design for a back for a brush, mirror, or the like as shown.

58,679. HANDLE FOR TOILET ARTICLES. HARRY DANIEL MOSAUER, New York, N. Y., assignor to Tuskeloid Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 29, 1920. Serial No. 427,236. Term of patent 7 years.



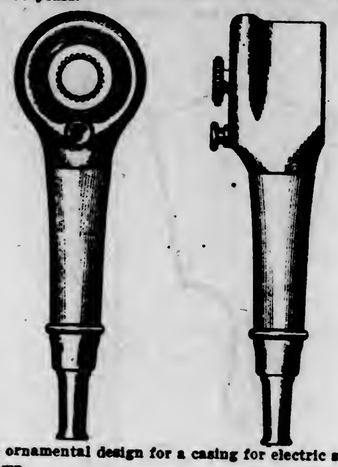
The ornamental design for a handle for toilet articles as shown.

58,680. COMB. HARRY DANIEL MOSAUER, New York, N. Y., assignor to Tuskeloid Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 29, 1920. Serial No. 427,237. Term of patent 7 years.



The ornamental design for a comb as shown.

58,681. CASING FOR ELECTRIC SWITCHES. OSCAR H. PIERPS and ALPHONSE F. PIERPS, Rochester, N. Y. Filed Mar. 19, 1921. Serial No. 453,787. Term of patent 14 years.



The ornamental design for a casing for electric switches, as shown.

58,682. TELEPHONE-EARPIECE. RONALD W. POST, Mountain Lakes, N. J. Filed Mar. 25, 1921. Serial No. 455,657. Term of patent 14 years.



The ornamental design for a telephone earpiece as shown.

58,683. TIRE-TREAD. JOHN W. PRICE, Baltimore, Md., assignor to the Delion Tire and Rubber Company, Baltimore, Md., a Corporation of Maryland. Filed Mar. 5, 1921. Serial No. 450,164. Term of patent 14 years.



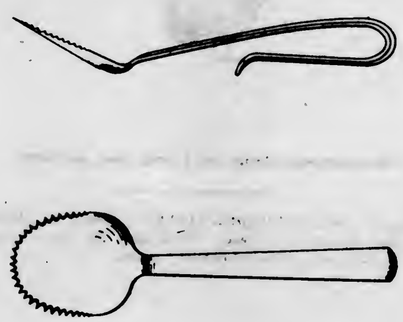
The ornamental design for a tire tread, as shown.

58,684. CAN-TESTER. HECTOR RABBEANA, Flint, Mich. Filed Apr. 20, 1921. Serial No. 466,229. Term of patent 14 years.



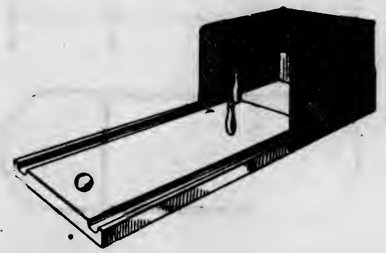
The ornamental design for a can tester, as shown.

58,685. ICE-CREAM SPOON. JOSEPH A. RAYDER, Philadelphia, Pa. Filed Mar. 18, 1921. Serial No. 453,399. Term of patent 7 years.



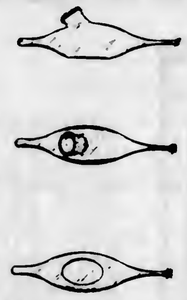
The ornamental design for an ice cream spoon as shown.

58,686. TOY BOWLING-ALLEY. HENRY REUHL, Cincinnati, Ohio. Filed Apr. 22, 1921. Serial No. 463,636. Term of patent 7 years.



The ornamental design for a toy bowling alley, as shown and described.

58,687. AMPUL. JOHN LA RUE ROBINSON, Reno, Nev. Filed Oct. 13, 1920. Serial No. 416,763. Term of patent 14 years.



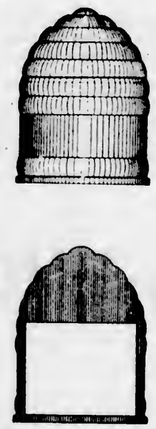
The ornamental design for an ampul as shown.

58,688. ELECTRIC-LIGHT BRACKET. CEPHAS B. ROGERS, Danbury, Conn. Filed Dec. 3, 1920. Serial No. 428,132. Term of patent 3½ years.



The ornamental design for an electric light bracket, as shown.

58,689. CONTAINER. HERMAN SENFTEN, Los Angeles, Calif. Filed Apr. 5, 1920. Serial No. 373,017. Term of patent 7 years.



The ornamental design for a container, as shown.

58,690. STORE-FRONT. CHARLES H. SEYMOUR, Flushing, N. Y., assignor to National Drug Stores Corporation, New York, N. Y., a Corporation of Delaware. Filed Apr. 5, 1920. Serial No. 371,467. Term of patent 14 years.



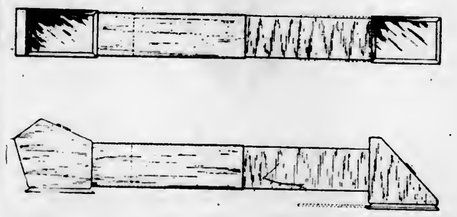
The ornamental design for a store front as shown.

58,691. DRILL-HOLE CLEANER OR SIMILAR ARTICLE. LESTER J. SORTOR, Des Moines, Iowa. Filed Feb. 9, 1921. Serial No. 443,709. Term of patent 14 years.



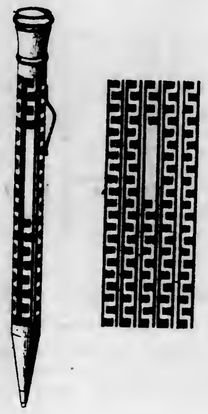
The ornamental design for a drill hole cleaner or similar article, as shown.

58,692. AUTOMOBILE REAR-SIGHT DEVICE. HARRY W. STOVER, Oakland, and BERTRAM M. COATES, Piedmont, Calif. Filed Feb. 23, 1921. Serial No. 447,323. Term of patent 7 years.



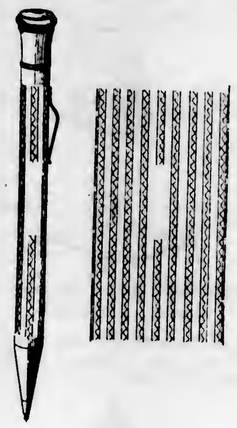
The ornamental design for an automobile rear sight device, as shown.

58,693. PEN OR PENCIL CASE. JOHN C. WAHL, Chicago, Ill., assignor to the Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 25, 1921. Serial No. 464,449. Term of patent 14 years.



The ornamental design for a pen or pencil case as shown.

58,694. PEN OR PENCIL CASE. JOHN H. WORTHY, Elgin, Ill., assignor to the Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 25, 1921. Serial No. 464,452. Term of patent 14 years.



The ornamental design for a pen or pencil case as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 9, 1921.

[PUBLISHED AUGUST 23, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 113,130. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NONOTUCK SILK COMPANY, Northampton, Mass. Filed Sept. 11, 1918.

CORTICELLI



Particular description of goods.—Piece Goods of Silk, Cotton and Silk, and Silk and Wool.
Claims use since about June 12, 1893.

Ser. No. 118,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STOM-A-LAX MEDICINE CO., Sanford, Fla. Filed May 10, 1919.

STOM-A-LAX

Particular description of goods.—A Remedy for Stomach Disorders.
Claims use since Feb. 15, 1918.

Ser. No. 118,505. (CLASS 15. OILS AND GREASES.) THE BAKERS PRODUCTS COMPANY, Cleveland, Ohio. Filed May 15, 1919.



The body of the letters is colored red.
Particular description of goods.—An Oil Compound Used in the Baking of Food Products as a Pan, Trough, and Divider Grease.
Claims use since Feb. 25, 1919.

Ser. No. 118,757. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INDUSTRIAL CHEMICAL COMPANY, New York, N. Y. Filed May 21, 1919.



Particular description of goods.—Acetone, Acetone Oil, Wood-Alcohol, Denatured Alcohol, Cymene, Decolorising-Carbon, Deodorising-Carbon, Precipitated Chalk and Charcoal for Medicinal Purposes, Soda-Ash, and Sulfate of Ammonia.
Claims use since Jan. 1, 1914.

Ser. No. 118,861. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEHON, STEVENSON AND COMPANY, Huntington, W. Va. Filed May 23, 1919.

TRINKET

Particular description of goods.—Coffee.
Claims use since Apr. 16, 1915.

Ser. No. 120,272. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE AMERICAN AUTOMOBILE ACCESSORIES COMPANY, Cincinnati, Ohio. Filed July 5, 1919.



Particular description of goods.—Portable Repair Kits.
Claims use since on or about July 1, 1918.

Ser. No. 121,612. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PAUL M. WENZEL, Philadelphia, Pa. Filed Aug. 12, 1919.

Boros

Particular description of goods.—Tooth-Powder and Mouth-Lotion.
Claims use since October, 1917.

Ser. No. 124,660. (CLASS 38. PRINTS AND PUBLICATIONS.) HUGH E. MILLIKIN, Niagara Falls, N. Y. Filed Nov. 7, 1919.

MUSICAL SCIENCE

Particular description of goods.—Publications Issued at Varying Intervals.
Claims use since Oct. 29, 1919.

Ser. No. 125,862. (CLASS 15. OILS AND GREASES.) JEROME J. SOUTH, Memphis, Tenn. Filed Dec. 11, 1919.

DELTOLEINE MOTOR OIL

No claim is made for the words "Motor Oil" apart from the mark shown.
Particular description of goods.—Lubricating Motor-Oil, Cup-Greases, Lubricating Gear Compounds.
Claims use since Mar. 1, 1919.

Ser. No. 127,123. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOOTON COCOA COMPANY, Newark, N. J. Filed Jan. 14, 1920.



Particular description of goods.—Sweet Chocolate.
Claims use since 1910.

Ser. No. 129,123. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPHINE C. RUDD, Richmond, Va. Filed Mar. 2, 1920.



The picture shown being a portrait of myself.
Particular description of goods.—A Compound for Promoting the Growth of the Hair.
Claims use since Mar. 15, 1918.

Ser. No. 129,771. (CLASS 15. OILS AND GREASES.) AMERICAN PACIFIC COMPANY, INC., San Francisco, Calif. Filed Mar. 16, 1920.

APCO

Particular description of goods.—Gasolene, Lubricating-Oils, Engine-Distillate, Lubricating-Greases, Kerosene.
Claims use since Feb. 1, 1919.

Ser. No. 129,810. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEROLINE COMPANY, Atlanta, Ga. Filed Mar. 16, 1920.

Steroline

Particular description of goods.—An Antiseptic Mouth-Wash.
Claims use since Mar. 2, 1920.

Ser. No. 131,050. (CLASS 15. OILS AND GREASES.) THE TEXAR COMPANY, Houston, Tex., and New York, N. Y. Filed Apr. 12, 1920.

HANDIOIL

Particular description of goods.—Petroleum Products—viz., Lubricating-Oils.
Claims use since February, 1920.

Ser. No. 131,173. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) INTERNATIONAL DRUG COMPANY, Wilmington, Del. Filed Apr. 15, 1920.



Particular description of goods.—Aromatic Cod-Liver Oil, Cod-Liver Oil Pure; Analgesic Balm for Lumbago, Neuralgia, and Headaches; Catarrhal Balm, Cold-Cream, Sarsaparilla Compound, Liquid Almond Cream, Elixir of Five Bromids for Epilepsy and Insomnia, Emulsion of Cod-Liver Oil, Glycerin, Witch-Hazel, Tonic Wine and Iron, Expectorant-Syrup for Coughs and Colds, Syrup of Figs and Senna for Malaria and Diarrhea, Syrup of Hypophosphites, Intestinal-Worm Syrup, Children's Laxative Syrup, Milk of Magnesia, White Liniment, Larkspur Lotion for Preventive for Parasites of the Head, Teething-Lotion for Relief of the Teeth, Mosquito-Lotion, Children's Cough Mixture, Vaginal Antiseptic Wafers, Vegetable Charcoal Tablets, Tablets for Bathing the Feet, Nerve Tonic Pills, Kidney-Pills, Carbolic and Witch-Hazel Salve, Arnica and Witch-Hazel Salve, Wine of Cod-Liver Oil; Internal-Pain Medicine for Diarrhea, Cramps, and Intestinal Colics; Diarrhea Medicine, Throat Medicine, Malaria Medicine, Rheumatism Medicine, Thymol Antiseptic Liquid, Menthol Ointment, Pile-Ointment, Itch-Ointment, Elixir Rhubarb Compound, Tonic Bitters, Pulmonic Tonic for Coughs and Colds, Dyspeptic Tablets, Asthmatic Elixir for Asthma; Viburnum Compound for Nervousness, Colic, Cramps, &c.; Peroxid of Hydrogen, Belladonna Plaster, Strengthening-Plasters, Arnica Plasters, Cough-Plasters, Kidney-Plasters, Rheumatic Plasters, Capsicum Plasters, Disinfectants, Seidlitz Powders, Germicides, Insecticides, and Antiseptics.
Claims use since Oct. 27, 1916.

Ser. No. 131,431. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHRETIEN LOEGLER, Clifton, N. J., assignor to Monica Textile Corporation, a Corporation of New York. Filed Apr. 21, 1920.

Monica

Particular description of goods.—Woven Fabrics in the Piece—Namely, Taffeta, Crapes, Chiffon, Marquisette, Crêpe de Chine, Shirtings, Organdy, Voile, Crape Chiffon.
Claims use since Apr. 19, 1920.

Ser. No. 131,465. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) EDWARD B. CASSATT, Cleveland, Ohio. Filed Apr. 22, 1920.

BISONA MANUFACTURED LEATHER



No claim is made to the words "Manufactured Leather" apart from the mark shown on the drawing.
Particular description of goods. — Manufactured Leather.
Claims use since Nov. 23, 1919.

Ser. No. 132,078. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JANE H. BRODHEAD, Akron, Ohio. Filed May 6, 1920.

JANE'S C.B.X.

Particular description of goods.—A Salve for the Treatment of Boils and Carbuncles.
Claims use since Jan. 15, 1920.

Ser. No. 132,228. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANNIE L. BEALL, Birmingham, Ala. Filed May 10, 1920.



Particular Description of goods.—A Preparation in the Form of a Salve for the Treatment of Cancers and Cancerous Sores.
Claims use since Apr. 27, 1920.

Ser. No. 132,323. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RHINOL CO., INC., New York, N. Y. Filed May 11, 1920.

RHINOL

Particular description of goods.—An Antiseptic Powder for the Treatment of Affections of the Nose and Throat.
Claims use since January, 1915.

Ser. No. 133,053. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) A. HOLLANDER & SON, INC., Newark, N. J. Filed May 26, 1920.

BAYSEAL

No registration rights being claimed for the word "Seal" apart from the mark shown in the drawing.
Particular description of goods.—Fur Skins.
Claims use since August, 1919.

Ser. No. 133,310. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) HIDE LEATHER & BELTING CO., Indianapolis, Ind. Filed June 5, 1920.

HIDE LEATHER & BELTING DYNAMO INDIANAPOLIS CO.

The words "Indianapolis" and "Dynamo" are hereby disclaimed apart from the mark as shown.
Particular description of goods.—Leather Belting.
Claims use since about 1905.

Ser. No. 133,349. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DONALD S. CAMPBELL, Salt Lake City, Utah. Filed June 7, 1920.



No claim being made to the words "Health," "Strength," and "Mineral Water" apart from the mark as shown on the drawing.
Particular description of goods.—An Artificial Health Mineral Water, the Properties of Which Are Adapted to the Need of Acidosis, Auto Intoxications, Sour Stomach, and All Chronic Stomach Disorders Where There is Depletion of Mineral Essentials in the Blood.
Claims use since Apr. 14, 1920.

Ser. No. 133,448. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CROKER PACKING CO., San Francisco, Calif. Filed June 9, 1920.

LAND O' GOLD BRAND

No claim is made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Canned Fruits, Canned Vegetables, and Fruit Preserves.
Claims use since Dec. 1, 1919.

Ser. No. 133,529. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELK MANUFACTURING COMPANY, Jellico, Tenn. Filed June 10, 1920.

ELK



Particular description of goods.—Extracts of Banana Imitation, Cassia Cinnamon, Lemon, Lemon Compound, Orange, Orange Compound, Pineapple Imitation, Strawberry Imitation, Vanilla, and Vanilla Compound.
Claims use since about Sept. 1, 1919.

Ser. No. 134,014. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EASTERN DISTRICT PIECE DYE WORKS, INC., Brooklyn, N. Y. Filed June 22, 1920.



Particular description of goods.—Silk Piece Goods.
Claims use since Mar. 16, 1920.

Ser. No. 134,028. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed June 22, 1920.

ELASTIC

Particular description of goods.—Licorice Candy.
Claims use since Jan. 1, 1895.

Ser. No. 134,731. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SWIFT & COMPANY, Chicago, Ill. Filed July 8, 1920.

Snap

Particular description of goods.—Soap.
Claims use since Sept. 17, 1897.

Ser. No. 134,933. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CONSOLIDATED TOOL WORKS, INC., New York, N. Y. Filed July 14, 1920.

PILOT

Particular description of goods.—Hack Saw-Frames, Hack Saw-Blades, Coping-Saw Frames, Coping-Saw Blades, Hammers, Hatchets, Extension-Bit Holders, Files, Handsaws, Twist-Drills, Tap-Wrenches, Ice-Picks, Can-Openers, Reamers, Punches, and Wrenches and Parts Thereof.
Claims use since June 26, 1920.

Ser. No. 135,570. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SEARS AND NICHOLS CANNING CO., Chillicothe, Ohio. Filed July 29, 1920.



The lining being for red and blue.
Particular description of goods.—Canned Vegetables.
Claims use since Apr. 13, 1899.

Ser. No. 135,615. (CLASS 17. TOBACCO PRODUCTS.) LUDWIG PRZEDECKI, Breslau, Germany. Filed July 30, 1920.



Particular description of goods.—Smoking and Chewing Tobacco, Snuff, Cigars, and Cigarettes.
Claims use since Jan. 1, 1920.

Ser. No. 135,953. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOPHIE MAE CANDY CORPORATION, Atlanta, Ga. Filed Aug. 9, 1920.



Particular description of goods.—Candy.
Claims use since Mar. 20, 1918.

Ser. No. 136,562. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EMMA B. JACKSON, Helena, Ark. Filed Aug. 27, 1920.

ORIS



Which consists of the portrait of applicant associated with the word "Oris."
Particular description of goods.—Hair-Grower, Pressing-Oil, Face-Wrinkle Cream, Shampoo, Tetter-Relief, Special Grower, Temple-Grower.
Claims use since July 1, 1918.

Ser. No. 136,873. (CLASS 15. OILS AND GREASES.) CORNING INTERNATIONAL CORPORATION, New York, N. Y. Filed Sept. 7, 1920.

CORNING

Particular description of goods.—Lubricating Oils and Greases.
Claims use since May 1, 1920.

Ser. No. 136,952. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PATRICK-YOUNG CO., Richmond, Va. Filed Sept. 8, 1920.

Polly

"It Speaks for Itself"



Particular description of goods.—Hams, Bacon, and Lard.
Claims use since Sept. 1, 1920.

Ser. No. 137,316. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) W. L. FLEISHER & CO., INC., New York, N. Y. Filed Sept. 18, 1920.

FLEISHER SPRAY DRYER

The words "Engineering Systems" and "Spray Drier" are disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Driers and Spray-Nozzles Used in the Drying of Various Materials.
Claims use since June, 1920.

Ser. No. 137,386. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PENN TEXTILE COMPANY, New York, N. Y. Filed Sept. 20, 1920.

PENN

Particular description of goods.—Textile Fabrics in the Piece Made of Cotton, Cotton and Wool, and Cotton and Silk.
Claims use since Apr. 7, 1920.

Ser. No. 137,411. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEONARD L. HOBACK, Athens, Tenn. Filed Sept. 21, 1920.

Hoback's Tonsillitis

No claim is made for the words "Hoback's Tonsillitis" apart from the mark shown.
Particular description of goods.—A Medicinal Preparation for Tonsillitis, Sore Throat, and All Bronchial Troubles.
Claims use since Sept. 16, 1920.

Ser. No. 138,589. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CENTRAL STATES CO-OPERATIVE WHOLESALE SOCIETY, East St. Louis, Ill. Filed Oct. 20, 1920.

U-NEED-US

Particular description of goods.—Canned Vegetables, Canned Fruits, Wheat-Flour, Spaghetti, Evaporated Milk, Pork and Beans, Coffee, Tea, Spices, Food-Flavoring Extracts, and Fruit Preserves.
Claims use since Sept. 1, 1920.

Ser. No. 138,713. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Oct. 23, 1920.

GLADIATOR

Particular description of goods.—Hoof-Pads.
Claims use since January, 1910.

Ser. No. 138,862. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LINCOLN DENTAL MFG. CO., Philadelphia, Pa. Filed Oct. 27, 1920.

LINCROWNS

Particular description of goods.—Teeth-Crowns.
Claims use since Feb. 3, 1915.

Ser. No. 138,976. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. F. BLANKE SALES COMPANY, St. Louis, Mo. Filed Oct. 30, 1920.



The figure is represented partly in red.
Particular description of goods.—Prepared Biscuit-Flour, Prepared Pie-Dough Flour, Prepared Cake-Flour, and Prepared Pancake-Flour and Cocoa.
Claims use since Oct. 19, 1920.

Ser. No. 139,148. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CORONA CORD TIRE COMPANY, East Butler, Pa. Filed Nov. 4, 1920.

CORONADA

Particular description of goods.—Automobile-Tire Casing and Tire-Tubes Composed of Rubber.
Claims use since Aug. 31, 1920.

Ser. No. 139,377. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Nov. 8, 1920.

VIMASAN

Particular description of goods.—Vitamine Preparations, Nerve-Tonics, Malt Extracts, and Dietetic Patent Foods for Medicinal Uses.
Claims use since July 15, 1920.

Ser. No. 139,378. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Nov. 8, 1920.

VIMARO

Particular description of goods.—Vitamine Preparations, Nerve-Tonics, Malt Extracts, and Dietetic Patent Foods for Medicinal Uses.
Claims use since July 15, 1920.

Ser. No. 139,623. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN WINGFIELD MITCHELL, Paso Robles, Calif., assignor to U. F. Kester, Paso Robles, Calif. Filed Nov. 13, 1920.

STOP-IT!



The portrait shown in the accompanying drawing is that of the applicant.
Particular description of goods.—A Liniment for the Relief of Pain.
Claims use since Oct. 22, 1920.

Ser. No. 140,130. (CLASS 39. CLOTHING.) MYERS DRY GOODS CO., Morristown, Tenn. Filed Nov. 24, 1920.

RED CROSS

M D G E

Particular description of goods.—Hosiery; Men's, Women's, and Children's Knitted or Textile Underwear of One, Two, and Three Pieces; Sweaters, Neckties, Dress-Shirts, Work-Shirts, Overalls, Pants, Corsets, Men's Collars and Suspenders, Men's Belts, Linen and Textile Cloths, and Flannel Shirts.
Claims use since 1903.

Ser. No. 140,534. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LOUIS WALTHER MANUFACTURING COMPANY, Philadelphia, Pa. Filed Dec. 2, 1920.

LOUIS WALTHER MFG. CO. PHILADELPHIA

The ground on which the letter "W" appears is red with margins in black, and the circles are in gold. The word "Philadelphia" is disclaimed except as used in connection with the mark shown.
Particular description of goods.—Worsted Piece Goods, Woolen Piece Goods, Worsted and Cotton Piece Goods, Woolen and Cotton Piece Goods, and Worsted and Silk Piece Goods.
Claims use since on or about July 27, 1915.

Ser. No. 140,594. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HYSAN MANUFACTURING CO., Chicago, Ill. Filed Dec. 4, 1920.

bozo

Particular description of goods.—A Cleansing Compound for Household Use.
Claims use since July 30, 1920.

Ser. No. 141,150. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) AUTOMOBILE OWNER'S TIRE CORPORATION, St. Paul, Minn. Filed Dec. 16, 1920.



No claim being made to the representation of a vehicle-tire apart from the mark as shown.
Particular description of goods.—Automobile Tires and Tubes of Rubber.
Claims use since Sept. 1, 1920.

Ser. No. 141,288. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) G. M. MAYER, New York, N. Y. Filed Dec. 17, 1920.

MAYER

Particular description of goods.—Scissors, Shears, Pocket-Knives, and Razors.
Claims use since Nov. 4, 1920.

Ser. No. 141,386. (CLASS 38. PRINTS AND PUBLICATIONS.) THE NOURSE COMPANY, INC., New York, N. Y. Filed Dec. 21, 1920.

SOMETHING TO DO BOOKS

Particular description of goods.—Books, Booklets, Pamphlets, Catalogues, and Similar Publications.
Claims use since about May 4, 1915.

Ser. No. 141,419. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DAVEY TREE EXPERT COMPANY, Kent, Ohio. Filed Dec. 22, 1920.

DAVEYITE

Particular description of goods.—Chemical Composition of Matter for Dressing Tree-Wounds.
Claims use since about June, 1912.

Ser. No. 141,460. (CLASS 39. CLOTHING.) KNIPS BROS. INC., Haverhill, Mass. Filed Dec. 23, 1920.

Bro-Kin

Particular description of goods.—Leather Boots and Shoes.
Claims use since Dec. 9, 1920.

Ser. No. 141,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOWARD H. HOTT CANDY CO., Chicago, Ill. Filed Jan. 4, 1921.

DORAINE

Particular description of goods.—Candy.
Claims use since Nov. 1, 1920.

Ser. No. 142,110. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SPOHR'S, Chicago, Ill. Filed Jan. 11, 1921.

KIDDIE KAPERS

Particular description of goods.—Candy.
Claims use since November, 1918.

Ser. No. 142,115. (CLASS 39. CLOTHING.) TAILORED SILK UNDERGARMENT CO., New York, N. Y. Filed Jan. 11, 1921.

TRILLIUM
SILK UNDERTHINGS

The words "Silk Underthings" are disclaimed apart from the trade-mark shown on the drawing.
Particular description of goods.—Underwear—Namely, Chemises, Bloomers, Camisoles, Petticoats, Vests, Nightgowns, Pajamas, Shirts, and Drawers.
Claims use since Dec. 6, 1920.

Ser. No. 142,180. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE TOWMOTOR COMPANY, Cleveland, Ohio. Filed Jan. 12, 1921.

TOWMOTOR

Particular description of goods.—Gasolene Industrial Tractors.
Claims use since March, 1919.

Ser. No. 142,312. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOMER L. ASSELIN, San Francisco, Calif. Filed Jan. 17, 1921.

AMBERDENT
(HIGHLY CONCENTRATED)

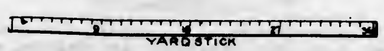
No claim being made to the words "Highly Concentrated" apart from the mark as shown.
Particular description of goods.—A Liquid Mouth-Wash and Antiseptic.
Claims use since June 28, 1920.

Ser. No. 142,373. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HORACE C. WAGNER, Walters, Okla. Filed Jan. 17, 1921.

Liver Tickler

Particular description of goods.—Medicinal Preparation Used in the Treatment of Billousness, Constipation.
Claims use since Aug. 1, 1920.

Ser. No. 142,388. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. W. GODDARD & SONS, INCORPORATED, New York, N. Y. Filed Jan. 18, 1921.



Particular description of goods.—Sateens, Percalines, Taffetas, Piece Goods and Print Cloths in the Piece of Cotton and Silk.
Claims use since Jan. 12, 1921.

Ser. No. 142,420. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE TREMONTE CO., Philadelphia, Pa. Filed Jan. 18, 1921.

DE LORIS

Particular description of goods.—Face-Powder.
Claims use since about Jan. 10, 1921.

Ser. No. 142,614. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. PETER FAHRNEY & SONS CO., Chicago, Ill. Filed Jan. 22, 1921.



No claim being made to the exclusive use of the words "Trade Mark" and "Chicago, Ill., U. S. A." apart from the mark shown in the drawing.
Particular description of goods.—A System-Tonic to Improve the Appetite, to Promote Digestion, to Regulate the Action of the Bowels, and to Quiet the Nervous System, Beneficially Affecting the Kidneys and the Liver, Producing Thereby Salutary Effects Upon the Blood Stream and the Entire System.
Claims use since July 30, 1920.

Ser. No. 142,650. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PACIFIC MILLS, Lawrence and Boston, Mass. Filed Jan. 22, 1921.

School

The lining is to indicate shading and the appearance of the trade-mark.
Particular description of goods.—Cotton Serge in the Piece.
Claims use since Feb. 8, 1916.

Ser. No. 142,718. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ODORONO COMPANY, Cincinnati, Ohio. Filed Jan. 24, 1921.



The mark is imprinted in black for the background and bodice of the lady, in red for the wrap, and in blue for the fan, with the border lined for the illustration in green, as shown by the conventional lining in the drawing and as illustrated in the specimens.
Particular description of goods.—Depilatories.
Claims use since June 15, 1920.

Ser. No. 142,784. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EASTERN FELT COMPANY, Winchester, Mass. Filed Jan. 26, 1921.

INDEPENDENCE

Particular description of goods.—Felt Polishing-Wheels and Felts Therefor.
Claims use since 1898.

Ser. No. 142,839. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NELLIE A. GLEIM, Cleveland, Ohio. Filed Jan. 27, 1921. Under ten-year proviso.

CARNATION CREAM



Particular description of goods.—Toilet Preparations Consisting of a Skin Cream or Emollient for Roughness of the Skin, Sunburn, Chapped Hands, and as an After-Shaving Cream.
Claims use since Dec. 1, 1886.

Ser. No. 142,892. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CLARA M. SHIPMAN, Chicago, Ill. Filed Jan. 28, 1921.

MOSSO'S HE-LUS



The picture shown in the trade-mark is a representation of C. A. Mosso, deceased.
Particular description of goods.—A Preparation for Catarrh and Inflammation of the Nose and Throat.
Claims use since Dec. 13, 1920.

Ser. No. 143,131. (CLASS 39. CLOTHING.) FLORENCE E. LUND, Chicago, Ill. Filed Feb. 3, 1921.

Body Glove

Particular description of goods.—Corsets and Brassières.
Claims use since Jan. 27, 1921.

Ser. No. 143,183. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NESTLE'S FOOD COMPANY, INC., New York, N. Y. Filed Feb. 4, 1921.

NESTLÉ'S EVERY DAY
UNSWEETENED EVAPORATED
MILK

No claim being made to the descriptive terms "Unsweetened," "Evaporated," and "Milk" apart from the mark shown in the drawing.
Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since Dec. 1, 1919.

Ser. No. 143,221. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED STAR MILLING COMPANY, Wichita, Kans. Filed Feb. 5, 1921.



The applicant makes no claim to the words "Dough Builder" embodied in said trade-mark apart from the other features of the mark as shown.

Particular description of goods.—Wheat-Flour.

Claims use since Dec. 18, 1920.

Ser. No. 143,262. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN F. DOBBS, Salem. Oreg. Filed Feb. 7, 1921.

Big Bear Soap



I hereby disclaim any right to the exclusive or proprietary use of the word "Soap" on such label or trade-mark, claiming merely ownership in the use of the words "Big Bear" in connection with the picture.

Particular description of goods.—Soap in Paste Form.

Claims use since Dec. 1, 1920.

Ser. No. 143,288. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EDWARD MAAG, New York, N. Y. Filed Feb. 7, 1921.



No exclusive rights are asserted to the words "New York." No rights are asserted to the exclusive use of the representation of a tassel except as forming part of the mark shown in the drawing.

Particular description of goods.—Upholstery and Drapery Trimmings—Namely, Tassels, Cords, Edges, Fringes, Galloons.

Claims use since 1911.

Ser. No. 143,499. (CLASS 39. CLOTHING.) KAHN MANUFACTURING COMPANY, Mobile, Ala. Filed Feb. 12, 1921.



No claim is made herein to the exclusive use of the word "Panama" apart from the trade-mark as shown in the accompanying drawing.

Particular description of goods.—Overalls, Cover-Alls, Trousers, and Palm Beach Suits.

Claims use since Jan. 1, 1910.

Ser. No. 143,549. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DAYTON MILLING COMPANY, Dayton, Tenn. Filed Feb. 14, 1921.

WOTOSCO

Particular description of goods.—Pastry-Flour Made from Wheat.

Claims use since about Dec. 5, 1920.

Ser. No. 143,635. (CLASS 39. CLOTHING.) CHICAGO MERCANTILE COMPANY, Chicago, Ill. Filed Feb. 16, 1921.



No claim being made to the words "Hats, Paris, New York, Chicago," apart from the mark as shown.

Particular description of goods.—Hats.

Claims use since Jan. 30, 1919.

Ser. No. 143,638. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOUIS A. ELFMAN, Philadelphia, Pa. Filed Feb. 16, 1921.

MAN O' WAR.

Particular description of goods.—Horse-Racing Amusement Game Apparatus.

Claims use since Jan. 1, 1921.

Ser. No. 143,669. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STE. ANONYME DES PRODUITS DORILLY, Paris, France. Filed Feb. 16, 1921.

DORILLY

Particular description of goods.—Toilet Creams, Perfumes, Rouges, Toilet Waters, Talcum Powders, Face-Powders, and Preparations for Softening and Whitening the Skin.

Claims use since Mar. 1, 1920, in France, and in the United States since Oct. 1, 1920.

Ser. No. 143,678. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN BUZINSKI, Grand Rapids, Mich. Filed Feb. 17, 1921.



No claim being made to the word "Salve" apart from the mark shown.

Particular description of goods.—A Salve for Wounds and Sores.

Claims use since about Dec. 29, 1920.

Ser. No. 143,694. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LUDMILA KUBANEK, Lorain, Ohio. Filed Feb. 17, 1921.



The trade-mark including applicant's portrait is shown in the drawing.

Particular description of goods.—A Medicine for Influenza, Colds, Cholera, and Pneumonia.

Claims use since about March, 1920.

Ser. No. 143,845. (CLASS 39. CLOTHING.) LOUIS SILFIN, New York, N. Y. Filed Feb. 19, 1921.

Marvel

Particular description of goods.—Dress, Negligée, and Work Shirts.

Claims use since Feb. 12, 1912.

Ser. No. 144,036. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN NOVAK COMPANY, Chicago, Ill. Filed Feb. 25, 1921.



Particular description of goods.—Salve to be Applied Externally as a Treatment for Rheumatism, Sprains, Colds, Sciatica, Lumbago, Sore Muscles, Stiff Neck.

Claims use since Jan. 9, 1920.

Ser. No. 144,054. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JUSKO SAGAN, Yorklyn, Del. Filed Feb. 25, 1921.

GORAKOLA

Particular description of goods.—A Salve for Cuts, Wounds, and Bruises, and a General Medicinal Tonic.

Claims use since Jan. 31, 1921.

Ser. No. 144,141. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GRAHAM BROS. SOAP CO., Chicago, Ill. Filed Feb. 28, 1921.

OLIVE-CREAM

Particular description of goods.—Toilet Soap.
Claims use since Jan. 18, 1902.

Ser. No. 144,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VERGILIO PANICUCCI, Christopher, Ill. Filed Feb. 28, 1921.



Particular description of goods.—A Medicine for Eyes, to Remove Irritation and Soreness, Strengthen the Eyes, and Relieve Eye Strains.
Claims use since about Jan. 11, 1921.

Ser. No. 144,177. (CLASS 39. CLOTHING.) BALLY COMPANY, INC., Wilmington, Del., and New York, N. Y. Filed Mar. 1, 1921.

„Aux Capucines"

Particular description of goods.—Boots, Shoes, Slippers, Mules, Ankle-Straps, Bottom-Fillers, Cork Pads, Counters, Gaiters, Heels, Heel-Counters, Heel-Cushions, Insoles, Leggings, Overgaiters, Puttees, Soles, Tongue-Pads, and Top-Lifts; Boots, Shoes, Slippers, and Mules Being Made of Leather, Silk, Satin, Brocade, Feathers, Cotton and Wool Cloth, and Combinations of Same; Heels, Soles, and Insoles Being Made of Leather, Rubber, Cork, Fabric, and Combinations Thereof; Leggings, Gaiters, and Overgaiters Being Made of Cloth and Rubberized Fabrics, and Puttees Being Made of Leather.
Claims use since Jan. 6, 1921.

Ser. No. 144,178. (CLASS 39. CLOTHING.) BALLY COMPANY, INC., Wilmington, Del., and New York, N. Y. Filed Mar. 1, 1921.

„A l'Opéra"

Particular description of goods.—Boots, Shoes, Slippers, Mules, Ankle-Straps, Bottom-Fillers, Cork Pads, Counters, Gaiters, Heels, Heel-Counters, Heel-Cushions, Insoles, Leggings, Overgaiters, Puttees, Soles, Tongue-Pads, and Top-Lifts; Boots, Shoes, Slippers, and Mules Being Made of Leather, Silk, Satin, Brocade, Feathers, Cotton and Wool Cloth, and Combinations of Same; Heels, Soles, and Insoles, Being Made of Leather, Rubber, Cork, Fabric, and Combinations Thereof; Leggings, Gaiters, and Overgaiters Being Made of Cloth and Rubberized Fabrics, and Puttees Being Made of Leather.
Claims use since Jan. 6, 1921.

Ser. No. 144,534. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. R. MALLINSON & CO., INC., New York, N. Y. Filed Mar. 9, 1921.

EN TOUR

Particular description of goods.—Silk Piece Goods.
Claims use since December, 1920.

Ser. No. 144,590. (CLASS 39. CLOTHING.) BION F. REYNOLDS, Brockton, Mass. Filed Mar. 10, 1921.

THE Bion F. Reynolds =SHOE=

No claim being made to the use of the words "The" and "Shoe" apart from the mark shown.
Particular description of goods.—Shoes Made of Leather, Fabric, Rubber, or the Combination of the Same.
Claims use since 1909.

Ser. No. 144,634. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM H. PRICE, Jr., Akron, Ohio. Filed Mar. 11, 1921.

Slimber Jim THE DANCING DOLL

No claim being made to the words "The Dancing Doll" except in connection with the mark as shown.
Particular description of goods.—Dancing Dolls.
Claims use since Feb. 26, 1921.

Ser. No. 144,773. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILTON COLLINS CO. INCORPORATED, Louisville, Ky. Filed Mar. 15, 1921.

FAMOUS PLAYERS

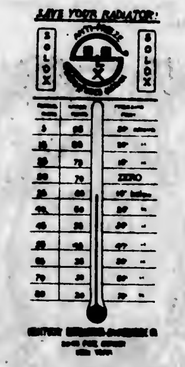
Particular description of goods.—Baseball-Bats.
Claims use since June 7, 1919.

Ser. No. 144,775. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE B. HUBD & CO., New York, N. Y. Filed Mar. 15, 1921.

·IDEAL·

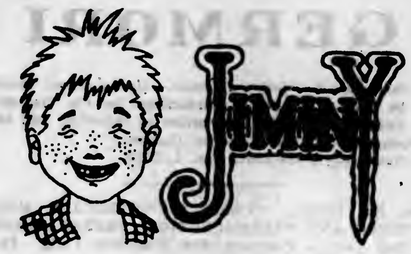
Particular description of goods.—Playing-Cards.
Claims use since about Apr. 20, 1920.

Ser. No. 144,778. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KENTUCKY DISTILLERIES & WAREHOUSE CO., New York, N. Y. Filed Mar. 15, 1921.



All matter appearing on the drawing, with the exception of the word "Solox" and the particular design of that word, is disclaimed apart from the mark as shown.
Particular description of goods.—Denatured Alcohol.
Claims use since January, 1919.

Ser. No. 144,817. (CLASS 15. OILS AND GREASES.) EDWARD K. LINCOLN, New York, N. Y. Filed Mar. 16, 1921.



Particular description of goods.—Lubricating-Oil.
Claims use since Nov. 15, 1918.

Ser. No. 144,887. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed Mar. 17, 1921.

Gainsborough

Particular description of goods.—Hair-Nets.
Claims use since Mar. 15, 1920.

Ser. No. 144,920. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KAYE MANUFACTURING COMPANY, Detroit, Mich. Filed Mar. 18, 1921.

KiddieVac

Particular description of goods.—A Toy in Imitation of a Vacuum-Cleaner and Bags in Imitation of Vacuum-Cleaner Dust-Bags.
Claims use since Nov. 5, 1920.

Ser. No. 144,966. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CARL DAMSCHINSKY, New York, N. Y. Filed Mar. 19, 1921. Under ten-year proviso.

PILOCRESCIN

Particular description of goods.—Hair-Restoratives.
Claims use since Aug. 20, 1891.

Ser. No. 145,042. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUGO ROTHSTEIN, St. Louis, Mo. Filed Mar. 21, 1921.

GERMORI

Particular description of goods.—Medicamental Tablets to be Used as an Aid to Parturition, for the Treatment of Leucorrhea, for the Prevention of Infection, and as a Deodorant in Cases of Uterine Cancer.
Claims use since about Jan. 1, 1919.

Ser. No. 145,071. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LAFANA COMPANY, San Francisco, Calif. Filed Mar. 22, 1921.



Applicant disclaims any attempt to cover in this registration the words "Tooth-Powder" apart from the other features of the mark as shown in the drawing, the lining on the drawing being for shading only and not intended to represent color.
Particular description of goods.—Dentifrice.
Claims use since June 1, 1920.

Ser. No. 145,132. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SNAPPY SOLDERING PASTE CO. INC., Tonawanda, N. Y. Filed Mar. 28, 1921.



The words "Tonawanda, N. Y." and the crossed soldering-irons set forth in the drawing are hereby disclaimed except as used in connnection with the words "Snappy" and "The Snappy Soldering Paste Company, Inc."
Particular description of goods.—Soldering Paste in the Nature of a Flux.
Claims use since Nov. 17, 1920.

Ser. No. 145,158. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LOUIS A. ELFMAN, Philadelphia, Pa. Filed Mar. 24, 1921.

TOTO-TIP

Particular description of goods.—Horse-Racing Amusement Game Apparatus.
Claims use since Jan. 1, 1921.

Ser. No. 145,184. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



The words "Violettes Russes" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Perfumes, Toilet Waters, Face-Powder, Face-Lotion, and Brilliantine.
Claims use since 1910.

Ser. No. 145,185. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



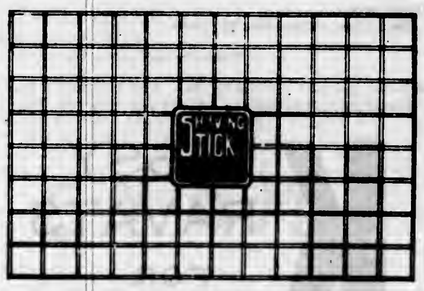
The word "Oeillet" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Perfumes, Toilet Waters, Face-Lotion, Face-Powder, and Brilliantine.
Claims use since 1910.

Ser. No. 145,186. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



Particular description of goods.—Perfumes, Toilet Waters, Face-Powder, Face-Lotion, and Brilliantine.
Claims use since 1910.

Ser. No. 145,187. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



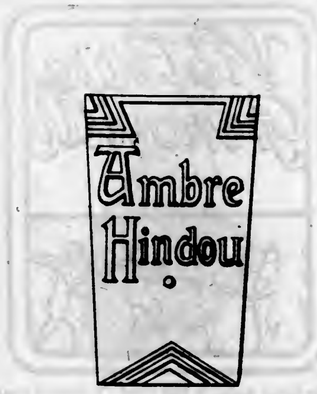
No claim being made to the words "Shaving Stick" apart from the mark shown in the drawing.
Particular description of goods.—Shaving-Soaps.
Claims use since 1910.

Ser. No. 145,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



Particular description of goods.—Perfumes, Toilet Waters, Face-Powder, Face-Lotion, and Brilliantine.
Claims use since 1910.

Ser. No. 145,189. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



Particular description of goods.—Perfumes, Toilet Waters, Face-Lotion, Face-Powder, and Brilliantine.
Claims use since 1910.

Ser. No. 145,191. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



The wording appearing on the drawing being disclaimed apart from the mark shown in the drawing, no common-law rights in the name "Grenoville" being disclaimed.
Particular description of goods.—Eau de Cologne.
Claims use since 1910.

Ser. No. 145,192. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



No claim being made to the word "Violette" apart from the mark shown in the drawing.

Particular description of goods.—Perfumes, Toilet Waters, Brilliantine, Face-Lotions, and Face-Powders.

Claims use since 1910.

Ser. No. 145,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.

VICTRIX

Particular description of goods.—Brilliantine, Face-Powder, and Face-Lotion.

Claims use since 1910.

Ser. No. 145,194. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIE MARTHE RICHARD VVE. GRENOVILLE, Asnierés, France. Filed Mar. 24, 1921.



Particular description of goods.—Perfumes, Toilet Waters, Brilliantine, Face-Powder, and Face-Lotion.

Claims use since 1910.

Ser. No. 145,212. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY R. HARROWER, Glendale, Calif. Filed Mar. 25, 1921.

INTRO-OVARIAN CO.

Particular description of goods.—Pluriglandular Formulas for the Treatment of Amenorrhea, Dysmenorrhea, and Neurasthenia.

Claims use since Mar. 29, 1918.

Ser. No. 145,213. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY R. HARROWER, Glendale, Calif. Filed Mar. 25, 1921.

ADRENO-SPERMIN CO.

Particular description of goods.—Pluriglandular Formulas for the Treatment of Asthenia, Suboxidation, and Hypotension.

Claims use since Mar. 29, 1918.

Ser. No. 145,220. (CLASS 39. CLOTHING.) ISIDOR KUNSTLER, New York, N. Y. Filed Mar. 25, 1921.

KLASSY KRAVATS FOR KIDS

"JUST LIKE DAD'S"

Particular description of goods.—Cravats.

Claims use since 1915.

Ser. No. 145,276. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LE BENART IMPORT CO. INC., New York, N. Y. Filed Mar. 26, 1921.



No claim being made to the words "Marque Deposee" and "Paris" apart from the mark as shown.

Particular description of goods.—Perfumes, Toilet Waters, Liquid Brilliantines, Solid Brilliantines, Face-Powders, Toilet Powders, Sachet-Powders, Face-Rouges, Lip-Rouges, Lip-Sticks.

Claims use since March, 1920.

Ser. No. 145,318. (CLASS 15. OILS AND GREASES.) THE PHILIP CAREY MANUFACTURING COMPANY, Lockland, Ohio. Filed Mar. 28, 1921.

Carey

Particular description of goods.—Grease Stock.

Claims use since about August, 1920.

Ser. No. 145,373. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM WATT, Mt. Dora, Fla. Filed Mar. 28, 1921.

ANGELO

Particular description of goods.—Citrus Fruits in Their Natural State.

Claims use since Feb. 22, 1921.

Ser. No. 145,419. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CYRUS E. SWIHART, Harpster, Ohio. Filed Mar. 29, 1921.

CYSWI

Particular description of goods.—Pliers.

Claims use since Mar. 10, 1921.

Ser. No. 145,438. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) EASTERN ART SHOP, New York, N. Y. Filed Mar. 30, 1921.



Exclusive right to the use of the word "Shades" is hereby disclaimed.

Particular description of goods.—Shades of Glazed Fabric.

Claims use since Feb. 15, 1921.

Ser. No. 145,449. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE HALL-THOMPSON COMPANY, Hartford, Conn. Filed Mar. 30, 1921.

FLASH

Particular description of goods.—Engine for Starting Fluids.

Claims use since about the 1st of October, 1918.

Ser. No. 145,506. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) E. E. GOOCH MANUFACTURING CO., Martin, Tenn. Filed Mar. 31, 1921.



Particular description of goods.—A Chemical Preparation for the Protection of Cured Meat from Skippers or other Insects.

Claims use since Feb. 10, 1921.

Ser. No. 145,508. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK C. HAZELRIGG, Indianapolis, Ind. Filed Mar. 31, 1921.

Friendly Herbs

The exclusive use to the word "Herbs" is disclaimed except as used in conjunction with the mark shown.

Particular description of goods.—A Tonic Alterative.

Claims use since on or about Feb. 9, 1921.

Ser. No. 145,522. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MCCRILLUS MEDICAL CO., Crown Point, Ind. Filed Mar. 31, 1921.



Consisting of the words "Little Brownie" with an illustration of a fanciful figure commonly recognized and known as a brownie.

Particular description of goods.—Laxative Tablets.

Claims use since May 28, 1917.

Ser. No. 145,536. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAMDT SOLOMON, Holliday, Mo. Filed Mar. 31, 1921.



H Solomon

The picture shown is a portrait of the applicant, and the signature is a facsimile of applicant's signature.

Particular description of goods.—A Healing Preparation of Local Application for Catarrh, Hay-Fever, Cuts, Burns, Piles, Itching, and other Skin Diseases.

Claims use since Feb. 24, 1921.

Ser. No. 145,538. (CLASS 39. CLOTHING.) WAISTCRAFT CORPORATION, New York, N. Y. Filed Mar. 31, 1921.

WAISTCRAFT

Particular description of goods.—Waists.

Claims use since Dec. 7, 1920.

Ser. No. 145,624. (CLASS 39. CLOTHING.) EDWARD G. HAGEDORN, New York, N. Y. Filed Apr. 2, 1921.

Hagedorn Silks.

Applicant disclaims the exclusive use of the word "Silks."

Particular description of goods.—Neckties.

Claims use since Jan. 1, 1915.

Ser. No. 145,630. (CLASS 39. CLOTHING.) J. H. JANOWITCH & JANOV, INC., New York, N. Y. Filed Apr. 2, 1921.

MOTHER'S BOY

Particular description of goods.—Infants' and Children's Clothing—Namely, Children's Outer Suits, Boys' Blouses, Boys' Negligée and Dress Shirts.

Claims use since Mar. 1, 1921.

Ser. No. 145,636. (CLASS 39. CLOTHING.) FRANCES WOODS MACKAY, Norwalk, Conn. Filed Apr. 2, 1921.

Rainy Play

Particular description of goods.—An Outer Cover-All Garment for Children.

Claims use since Mar. 26, 1921.

Ser. No. 145,754. (CLASS 39. CLOTHING.) RAINBOW SHIRT CORPORATION, New York, N. Y. Filed Apr. 5, 1921.

RAINBOW

The shade-lines under the word "Rainbow" are to represent the colors blue, yellow, and red.

Particular description of goods.—Dress-Shirts, Negligée Shirts, and Work-Shirts.

Claims use since April, 1919.

Ser. No. 145,828. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PERCY HOHL, Preston, Idaho. Filed Apr. 7, 1921.

LANO-FUME

Particular description of goods.—A Salve to be Used for the Relief of Sore Throats, Pleurisy, Colds on the Lungs, Croup, Pneumonia, and Bronchitis.

Claims use since Mar. 1, 1921.

Ser. No. 145,892. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARMANDE DEL GARCIA, New York, N. Y. Filed Apr. 8, 1921.

Saccharosyl caubin

Particular description of goods.—A Serum for the Treatment of Tuberculosis.

Claims use since Oct. 3, 1920.

Ser. No. 145,951. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHNSON & JOHNSON, New Brunswick, N. J. Filed Apr. 9, 1921.

Johnson

Under section 9 of the act of March 19, 1920.

Particular description of goods.—Baby-Cream for Toilet and Nursery.

Claims use since April, 1920.

Ser. No. 146,008. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) J. W. FREEDLY, Conroe, Tex. Filed Apr. 11, 1921.



No claim is made for the words "Sure Grip" apart from the mark illustrated in the drawing.

Particular description of goods.—Sheet-Rubber Tire-Patches and Tube-Patches, Brake-Lining, Transmission-Lining, Fan-Belts, and Rubber Tubes.

Claims use since April, 1920.

Ser. No. 146,097. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE VITALAIT LABORATORY, Newton, and Newton Center, Mass. Filed Apr. 12, 1921.

Vitalait

Particular description of goods.—Bacteriological Starting Culture.

Claims use since Mar. 13, 1913.

Ser. No. 146,101. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. C. WHITE COMPANY, North Bennington, Vt. Filed Apr. 12, 1921.

K-K

Particular description of goods.—Three and Four Wheeled Play-Wagons and Coasters for Children.

Claims use since Aug. 1, 1915.

Ser. No. 146,263. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KRAEUTER & CO. INC., Newark, N. J. Filed Apr. 16, 1921.

PENDULUM

Particular description of goods.—Golf-Putters.

Claims use since Mar. 23, 1921.

Ser. No. 146,280. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Apr. 16, 1921.

ROYAL

Particular description of goods.—Golf-Balls.

Claims use since Apr. 1, 1920.

Ser. No. 146,353. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

SNOWDRIFT

Particular description of goods.—A Preparation for Increasing the Brilliancy and Removing the Yellowness from White or Gray Hair.

Claims use since January, 1912.

Ser. No. 146,364. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.



The drawing is lined to indicate shading only.

Particular description of goods.—Face-Astringent and Skin-Tightener.

Claims use since July, 1914.

Ser. No. 146,379. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LA MIRA CHEMICAL CO., New York, N. Y. Filed Apr. 19, 1921.

La Mira

Particular description of goods.—Hair-Dyes.
Claims use since May, 1910.

Ser. No. 146,419. (CLASS No. 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. R. ARNOLD & CO., New York, N. Y. Filed Apr. 20, 1921.

POUDRE DORILLY

The word "Poudre" being disclaimed except in association with the fanciful word "Dorilly."
Particular description of goods.—Face-Powder.
Claims use since Apr. 8, 1921.

Ser. No. 146,420. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) F. R. ARNOLD & CO., New York, N. Y. Filed Apr. 20, 1921.



Particular description of goods.—Compact-Powder and Rouge.
Claims use since Mar. 9, 1921.

Ser. No. 146,423. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BLAS ACCOSTA, Jr., New York, N. Y. Filed Apr. 20, 1921.

Menstol

Particular description of goods.—A Preparation Used as a Stimulant and Analgesic for Painful Menstruation, Neuralgia, Colds, Headaches, Fevers, and to Relieve Pain Generally.
Claims use since Oct. 25, 1920.

Ser. No. 146,442. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LYON BOTANICAL CO. INC., New York, N. Y. Filed Apr. 20, 1921.

SIMOON

Particular description of goods.—Insect-Powder.
Claims use since on or about Jan. 15, 1921.

Ser. No. 146,488. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DORESS TRADING CORPORATION, New York, N. Y. Filed Apr. 21, 1921.

"DORA"

Particular description of goods.—Dolls.
Claims use since Apr. 10, 1921.

Ser. No. 146,490. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LARKIN CO., INC., Buffalo, N. Y. Filed Apr. 21, 1921.



LARKIN

Particular description of goods.—Soap in Cake, Stick, Liquid, Powder, Flake, Chip and Paste Form; Polish in

Liquid, Paste, and Powdered Form for Shoes, Metal, Silver, and Stoves; Washing-Tablets, Naphtha Washing Compound, Scouring-Paste, Glassware-Cleaning Powder, Scouring-Powder, Cleaning-Paste, Liquid Dry Cleaner, Wall-Paper Cleaner, Glove-Cleaner, Liquid Shoe-Dressing, Lens-Wash, and Razor-Strops.
Claims use since Jan. 1, 1906.

Ser. No. 146,523. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAMES R. COUNCIL, Norfolk, Va. Filed Apr. 22, 1921.

TENPENNY

Particular description of goods.—Cough-Drops.
Claims use since Jan. 1, 1921.

Ser. No. 146,539. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1921.

Americe

Particular description of goods.—Toilet Preparations—Namely, Cold-Cream, Toilet Water, and Talcum Powder.
Claims use since the year 1911.

Ser. No. 146,540. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1921.

BEN-ALMO

Particular description of goods.—Skin-Lotion.
Claims use since December, 1919.

Ser. No. 146,554. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK L. HALL CO., Buffalo, N. Y. Filed Apr. 22, 1921.

HALLPRYD

Particular description of goods.—Wheat Bread and Rolls, Cakes, and Pastry.
Claims use since Nov. 22, 1920.

Ser. No. 146,560. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHNSON-APPLEBY COMPANY, Boston, Mass. Filed Apr. 22, 1921.



Particular description of goods.—Baking-Powder.
Claims use since June 1, 1896.

Ser. No. 146,564. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. S. KOLAR LABORATORIES, Chicago, Ill. Filed Apr. 22, 1921.

Meldoris

Particular description of goods.—Skin-Astringent, Antiseptic Oil, Brilliantine, Depilatories, Complexion-Meal, Hair-Dressing, Nail-Bleach, Nail-Paste, Nail-Polish, Nail-Whitener, Rouge, Scalp-Ointment, Shampoo, Talcum Powder.
Claims use since Jan. 2, 1921.

Ser. No. 146,572. (CLASS 39. CLOTHING.) ISAAC I. MARRUS, Scranton, Pa. Filed Apr. 22, 1921.

I. I. MARRUS PRODUCER OF GOOD CLOTHES

No trade-mark claim being made to the applicant's name and the words "Producer of Good Clothes" apart from the mark shown.
Particular description of goods.—Clothing Comprising Suits for Men, Young Men, Boys, and Children, Overcoats, Mackinaws, Pants, and Vests.
Claims use since January, 1920.

Ser. No. 146,575. (CLASS 39. CLOTHING.) NU-WAY STRETCH SUSPENDER CO., Adrian, Mich. Filed Apr. 22, 1921.

EXCELLO

Particular description of goods.—Men's Suspenders and Hose-Supporters.
Claims use since Sept. 21, 1920.

Ser. No. 146,592. (CLASS 38. PRINTS AND PUBLICATIONS.) ROSE AND COMPANY, New York, N. Y. Filed Apr. 22, 1921.

Rose Investment Review

Particular description of goods.—Magazines and Pamphlets Published Monthly.
Claims use since Mar. 1, 1921.

Ser. No. 146,597. (CLASS 39. CLOTHING.) SCHNEIDER, BATTINUS & SIMON, Chicago, Ill. Filed Apr. 22, 1921.

DOUBLE

Particular description of goods.—Hosiery.
Claims use since January, 1921.

Ser. No. 146,598. (CLASS 39. CLOTHING.) SPOKANE DRY GOODS COMPANY, Spokane, Wash. Filed Apr. 22, 1921.

ZERO MACKINAW

No claim being made to the exclusive use of the word "Mackinaw" apart from the mark shown in the drawing.
Particular description of goods.—Mackinaws and Overcoats.
Claims use since July 1, 1907.

Ser. No. 146,600. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y. Filed Apr. 22, 1921.

SIXCO

Particular description of goods.—Disinfectants, Insecticides, and Deodorants.
Claims use since Mar. 28, 1921.

Ser. No. 146,601. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y. Filed Apr. 22, 1921.

INSECTOL

Particular description of goods.—Disinfectants, Insecticides, and Deodorants.
Claims use since June 17, 1920.

Ser. No. 146,602. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y. Filed Apr. 22, 1921.

PYN-AIR

Particular description of goods.—Disinfectants, Insecticides, and Deodorants.
Claims use since Feb. 12, 1921.

Ser. No. 146,603. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y. Filed Apr. 22, 1921.

HUMITAS

Particular description of goods.—Disinfectants and Air-Conditioning Preparations.
Claims use since July 2, 1914.

Ser. No. 146,607. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT S. WHITFIELD, Chattanooga, Tenn. Filed Apr. 22, 1921.

CREO-PINUS

Particular description of goods.—A Liquid Preparation for the Treatment of Colds, Croup, Whooping-Cough, Catarrhal Bronchitis, Bronchial Asthma, and Incipient Pulmonary Affections.
Claims use since September, 1919.

Ser. No. 146,610. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK A. WEINSTEIN, Pittsburgh, Pa. Filed Apr. 22, 1921.

20TH CENTURY WEINO TONIC

No claim is made to the word "Tonic" apart from the showing made in the drawing.
Particular description of goods.—General Tonics.
Claims use since Mar. 9, 1921.

Ser. No. 146,643. (CLASS 39. CLOTHING.) THE MEDLICOTT COMPANY, Windsor Locks, Conn. Filed Apr. 23, 1921. Under ten-year proviso.

MEDLICOTT

Particular description of goods.—Wool Underwear for Men, Women, and Children.
Claims use since Dec. 23, 1867.

Ser. No. 146,648. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

Purilatum

Particular description of goods.—A Petroleum Jelly for Dressing Wounds, Burns, Skin Diseases, Chapped Hands, Sore Lips, Chilblains, Piles, &c.
Claims use since about Jan. 1, 1914.

Ser. No. 146,649. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

MustoLatum

Particular description of goods.—Salve for Relieving Aches, Pains, Colds of the Throat or Chest, Bronchitis, Pleurisy, Neuralgia, Rheumatism, Lame Back, Sore and Stiff Joints and Muscles.
Claims use since about Jan. 1, 1914.

Ser. No. 146,650. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

CAM-MEN-THO

Particular description of goods.—Balm for Relieving Catarrh, Hay-Fever, Pneumonia, Croup, Chapped Hands, Inflamed Skin or Tissues, Earache, Headache, Neuralgia, Colds in Throat or Chest, Chilblains, or Sore Throat.
Claims use since about Jan. 1, 1914.

Ser. No. 146,684. (CLASS 39. CLOTHING.) LESTER BING, Philadelphia, Pa. Filed Apr. 25, 1921.

Florine

Particular description of goods.—Knitted Bloomers, Knitted Vests, and Knitted Union-Suits.
Claims use since on or about Nov. 15, 1920.

Ser. No. 146,685. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BALLARD & BALLARD COMPANY, Louisville, Ky. Filed Apr. 25, 1921.

BLUE BIRD

Particular description of goods.—Wheat-Flour, and Particularly Self-Rising Flour.
Claims use since the 1st of October, 1920.

Ser. No. 146,723. (CLASS 39. CLOTHING.) MORRIS, MANN & REILLY, Chicago, Ill. Filed Apr. 25, 1921.



The trade-mark consisting of the representation of a red seal with the words "Red Seal" thereon.
Particular description of goods.—Baby-Pants.
Claims use since Mar. 1, 1920.

Ser. No. 146,724. (CLASS 39. CLOTHING.) MORRIS, MANN & REILLY, Chicago, Ill. Filed Apr. 25, 1921.

RedSeal

Particular description of goods.—Baby-Pants.
Claims use since Mar. 1, 1920.

Ser. No. 146,761. (CLASS 39. CLOTHING.) HOOVER HOSIERY CO., Concord, N. C. Filed Apr. 26, 1921.



Particular description of goods.—Ladies' and Men's Hosiery.
Claims use since October, 1919.

Ser. No. 146,772. (CLASS 39. CLOTHING.) THOMAS R. JONES, Wilkes-Barre, Pa. Filed Apr. 26, 1921.

COAL KING

Particular description of goods.—Miners' Caps.
Claims use since December, 1920.

Ser. No. 146,777. (CLASS 39. CLOTHING.) OPPENHEIM, OBERNDORF & CO. INC., Baltimore, Md. Filed Apr. 26, 1921.

SEALPAX

Particular description of goods.—Collars.
Claims use since Apr. 7, 1921.

Ser. No. 146,791. (CLASS 39. CLOTHING.) BERKS KNITTING COMPANY, Reading, Pa. Filed Apr. 27, 1921.

BonnieBelle

Particular description of goods.—Hosiery.
Claims use since January, 1921.

Ser. No. 146,912. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ICY-HOT BOTTLE COMPANY, Cincinnati, Ohio. Filed Apr. 28, 1921.

ICY-HOT

The trade-mark in which the cross-lines on the face of the letters and hyphen have no color significance.
Particular description of goods.—Coffee, Sugar, Tea, Chocolate, Cocoa, Bouillon, Broth, Soup, Mayonnaise and Salad Dressing.
Claims use since December, 1913.

Ser. No. 147,000. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) S. ALLCOCK & CO. LIMITED, Redditch, England. Filed Apr. 30, 1921.

"ALPHA"

Particular description of goods.—Linen and Hemp Fishing-Lines.
Claims use since Apr. 19, 1915.

Ser. No. 147,088. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MACUNGIE SILK COMPANY, Macungie, Pa. Filed Apr. 30, 1921.



Particular description of goods.—Blanket-Bindings and Tapes.
Claims use since June, 1918.

Ser. No. 147,117. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARVEL COMPOUND COMPANY, San Jose, Calif. Filed May 2, 1921.

MARVEL

Particular description of goods.—A Boiler, Gas-Engine, and Radiator Compound.
Claims use since May 1, 1915.

Ser. No. 147,123. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 2, 1921.

PALATOL

Particular description of goods.—A Tonic Nutritive and Alterative.
Claims use since 1904.

Ser. No. 147,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOUIS BOREFARTE KOCHMAN, New York, N. Y. Filed May 3, 1921.

THE GOLDEN WORD
King Midas

Particular description of goods.—Baking-Powder.
Claims use since July, 1919.

Ser. No. 147,214. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, Bayonne, N. J. Filed May 4, 1921.

Fractol

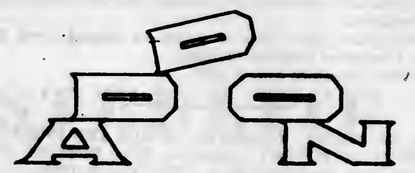
Particular description of goods.—Petroleum-Oil.
Claims use since Mar. 30, 1921.

Ser. No. 147,275. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROCHELLE BERNARDO, New York, N. Y. Filed May 6, 1921.

ROMANCE

Particular description of goods.—Toilet Preparations—viz., Perfumes.
Claims use since Apr. 10, 1921.

Ser. No. 147,287. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE H. B. HOWE COMPANY, Cincinnati, Ohio. Filed May 6, 1921.



Particular description of goods.—Display-Shelves.
Claims use since May 2, 1921.

Ser. No. 147,335. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BISSELL CARPET SWEEPER CO., Grand Rapids, Mich. Filed May 7, 1921.

LITTLE QUEEN

Particular description of goods.—Toy Carpet-Sweepers.
Claims use since Jan. 29, 1900.

Ser. No. 147,336. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BISSELL CARPET SWEEPER CO., Grand Rapids, Mich. Filed May 7, 1921.

LITTLE JEWEL

Particular description of goods.—Toy Carpet-Sweepers.
Claims use since Jan. 29, 1904.

Ser. No. 147,349. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FRANK B. HELIES, Elizabeth, N. J. Filed May 7, 1921.

AMCO

Particular description of goods.—Leather Floor-Mats.
Claims use since Jan. 1, 1921.

Ser. No. 147,370. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE L. V. NICHOLAS OIL COMPANY, Omaha, Nebr. Filed May 7, 1921.

Simon Pure



CLEANER

Applicant disclaims the words "Simon Pure" and "Cleaner."
Particular description of goods.—A Liquid Used for the Purpose of Cleaning Clothing.
Claims use since Apr. 1, 1921.

Ser. No. 147,390. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed May 9, 1921.

CAMPEONA

Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since Apr. 29, 1921.

Ser. No. 147,472. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) TOM W. SAUL, Seattle, Wash. Filed May 9, 1921.



Particular description of goods.—Hairpins and Combs, Not Including Goods Made of Precious Metal.
Claims use since October, 1920.

Ser. No. 147,563. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MITCHELL-BISSELL COMPANY, New York, N. Y. Filed May 11, 1921.

ADAMANT

Particular description of goods.—Guides and Tips for Fishing-Rods.
Claims use since Sept. 17, 1901.

Ser. No. 147,576. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMUEL L. STROUD, Oakland, Calif. Filed May 11, 1921.

WEARTEX

Particular description of goods.—Grass Rugs.
Claims use since Jan. 1, 1921.

Ser. No. 147,642. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARTIN R. SCHNACK, Los Angeles, Calif. Filed May 12, 1921.

JAZZIE

Particular description of goods.—A Patented Type of Doll with Flexible Joints.
Claims use since Mar. 21, 1921.

Ser. No. 147,667. (CLASS 38. PRINTS AND PUBLICATIONS.) THE H-O CEREAL COMPANY, INC., Buffalo, N. Y. Filed May 13, 1921.

The H-O Force

Particular description of goods.—A Magazine or House Organ Published and Issued by It.
Claims use since September, 1920.

Ser. No. 147,693. (CLASS 38. PRINTS AND PUBLICATIONS.) THE TORBELL COMPANY, Boston, Mass. Filed May 13, 1921.

THE OPEN ROAD

Particular description of goods.—Monthly Magazines.
Claims use since November, 1910.

Ser. No. 147,773. (CLASS 38. PRINTS AND PUBLICATIONS.) FARM PUBLISHING COMPANY, Des Moines, Iowa. Filed May 16, 1921.

The IOWA FARMER And CORN BELT FARMER

Particular description of goods.—A Monthly Periodical Publication.
Claims use since Feb. 1, 1921.

Ser. No. 147,786. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) LIBERTY PAPER CO., New York, N. Y. Filed May 16, 1921.

LIBERTY

Particular description of goods.—Dress-Form Sets.
Claims use since Feb. 15, 1921.

Ser. No. 147,809. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE VICTOR RUBBER COMPANY, Springfield, Ohio. Filed May 16, 1921.

MILEAGE

VICTORS

Particular description of goods.—Rubber and Fabric Outer Casings for Pneumatic Automobile-Tires and Inner Tubes for Automobile Pneumatic Tires.
Claims use since May 2, 1921.

Ser. No. 147,847. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) L. G. PEARSON CORP., Niagara Falls, N. Y. Filed May 17, 1921.

WONDERGLO

Particular description of goods.—Polishing-Cloths for Gold, Silver, and All Precious Metals.
Claims use since November, 1920.

Ser. No. 147,850. (CLASS 15. OILS AND GREASES.) SUN COMPANY, Philadelphia, Pa. Filed May 17, 1921.

OCNUS

Particular description of goods.—Lubricating-Oils.
Claims use since on or about Feb. 1, 1921.

Ser. No. 148,027. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JORDAN MARSH COMPANY, Boston, Mass. Filed May 21, 1921.

"Avona"

Particular description of goods.—Golf-Clubs.
Claims use since Apr. 11, 1921.

Ser. No. 148,045. (CLASS 15. OILS AND GREASES.) AUTOMOTIVE LUBRICANT COMPANY, San Antonio, Tex. Filed May 23, 1921.

LUBEST

Particular description of goods.—Lubricating-Oil.
Claims use since Jan. 1, 1921.

Ser. No. 148,073. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) INTERNATIONAL HOUSING CORPORATION, Jersey City, N. J., and New York, N. Y. Filed May 23, 1921.

STEELITE

Particular description of goods.—Metal Buildings and Metal-Building Sections.
Claims use since Apr. 28, 1921.

Ser. No. 148,132. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) EDWARD B. DEWEY, Washington, D. C., and Winsted, Conn. Filed May 24, 1921.



No claim is made for the words "Hair Pins."
Particular description of goods.—Hairpins Not of Precious Metal.
Claims use since May 1, 1921.

Ser. No. 148,214. (CLASS 38. PRINTS AND PUBLICATIONS.) THE COLEMAN LAMP COMPANY, Wichita, Kans. Filed May 25, 1921.

Coleman-Grams

Particular description of goods.—House Magazine Published Monthly.
Claims use since June, 1920.

Ser. No. 148,278. (CLASS 38. PRINTS AND PUBLICATIONS.) INTERNATIONAL MAGAZINE COMPANY, New York, N. Y. Filed May 26, 1921.

Hearst's INTERNATIONAL

Particular description of goods.—A Monthly Magazine.
Claims use since Apr. 15, 1921.

Ser. No. 148,348. (CLASS 15. OILS AND GREASES.) RADIUM OIL COMPANY, Cincinnati, Ohio. Filed May 27, 1921.

RADIUM OIL COMPANY
"SCIENCE WINS"

No claim being made to the "Oil Company" apart from the mark shown in the drawing.
Particular description of goods.—Lubricating-Oils.
Claims use since Jan. 1, 1915.

Ser. No. 148,482. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C. Filed June 1, 1921.

WINTER KING

Particular description of goods.—Blankets Made of Wool and Cotton or Combination of Wool and Cotton.
Claims use since Jan. 15, 1919.

Ser. No. 148,485. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C. Filed June 1, 1921.

Vacation

Particular description of goods.—Blankets Made of Wool and Cotton or Combination of Wool and Cotton.
Claims use since Jan. 15, 1919.

Ser. No. 148,486. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C. Filed June 1, 1921.

Caravan

Particular description of goods.—Blankets Made of Wool and Cotton or Combination of Wool and Cotton.
Claims use since May 1, 1920.

Ser. No. 148,500. (CLASS 38. PRINTS AND PUBLICATIONS.) MALONE & HYDE INC., Memphis, Tenn. Filed June 1, 1921.

Particular description of goods.—Publications Published Periodically.
Claims use since May, 1917.

Ser. No. 148,607. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MIDLAND PLAYING CARD CO., La Fayette, Ind. Filed June 3, 1921.

Betsy Ross

Particular description of goods.—Playing-Cards.
Claims use since Apr. 27, 1921.

Ser. No. 148,687. (CLASS 38. PRINTS AND PUBLICATIONS.) EARL R. ALLURED, Chicago, Ill. Filed June 6, 1921.

The Candy Manufacturer
Consolidating
THE CANDY FACTORY and THE CONFECTIONERY AGE

Particular description of goods.—Magazines Published Monthly.
Claims use since May 21, 1921.

Ser. No. 148,690. (CLASS 15. OILS AND GREASES.) THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed June 6, 1921.

THE ATLANTIC REFINING COMPANY

The crossed arrows and the outer irregular border are in red.
Particular description of goods.—Black, Compounded, Crude, Cutting, Cylinder, Dynamo, Engine, Fuel, Gas, Heating, Illuminating, Journal, Kerosene, Lubricating, Motor, Neutral, Paraffin, Road, Roofing, Standard White Illuminating, Transformer, Transmission, Turbine, Water-White Illuminating, and Spindle Oils; Axle, Black, Gear, Lubricating, Petroleum, and Transmission Greases; Candles, Gasolenes, Naphthas, Paraffin-Wax, and Rust-Preventives in the Nature of Oils and Greases.
Claims use since Jan. 28, 1915.

Ser. No. 148,711. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif. Filed June 6, 1921.



Particular description of goods.—Bleached Muslin in the Piece, Sheets, Pillow-Cases.
Claims use since Mar. 18, 1921.

Ser. No. 148,713. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif. Filed June 6, 1921.



Particular description of goods.—Bleached Muslin in the Piece, Sheets, Pillow-Cases.
Claims use since Nov. 26, 1920.

Ser. No. 148,714. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif. Filed June 6, 1921.

PRIDE OF CALIFORNIA

Particular description of goods.—Bleached Muslins in the Piece, Sheets, Pillow-Cases.
Claims use since Apr. 19, 1921.

Ser. No. 148,752. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATIONAL DRUG STORES CORP., New York, N. Y. Filed June 6, 1921.

NATIONAL LIGHTNING

Particular description of goods.—A Soap Cream Used Before Shaving.
Claims use since May 18, 1921.

Ser. No. 148,807. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LITTLE SERVANT MFG. CO., Jersey City, N. J. Filed June 7, 1921.

LITTLE SERVANT

Particular description of goods.—Tablets for Washing Fabrics of Various Kinds.
Claims use since Dec. 1, 1920.

Ser. No. 148,875. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOSEPH H. EWING, Kansas City, Mo. Filed June 9, 1921.

KIK INT

Particular description of goods.—A Maltless, Non-Cereal Beverage Prepared from Fruit and Vegetable Juices, Fruit Acids, and Harmless Artificial Coloring and Used as a Soft Drink, and a Syrup from Which the Drink is Prepared.
Claims use since Apr. 28, 1921.

Ser. No. 148,926. (CLASS 38. PRINTS AND PUBLICATIONS.) THE COLE PUBLISHING COMPANY, Cleveland, Ohio. Filed June 10, 1921.

The Interstate Film News
and
The Ohio Motion Picture Review

Particular description of goods.—A Publication Issued Weekly.
Claims use since January, 1921.

Ser. No. 148,946. (CLASS 15. OILS AND GREASES.) MOON-SHINE MANUFACTURING COMPANY, Chillicothe, Mo. Filed June 10, 1921.

MOON-SHINE

Particular description of goods.—Lubricating-Oil for Springs, Rusty Bolts, Rods, Joints, &c.
Claims use since Mar. 1, 1921.

Ser. No. 149,070. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Davis and Voetsch, New York, N. Y. Filed June 13, 1921.

"The President's Pup"

Particular description of goods.—Stuffed Toy Dogs.
Claims use since June 9, 1921.

Ser. No. 149,071. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Davis and Voetsch, New York, N. Y. Filed June 13, 1921.

"The White House Pup"

Particular description of goods.—Stuffed Toy Dogs.
Claims use since June 9, 1921.

Ser. No. 149,088. (CLASS 15. OILS AND GREASES.) The Lubricants Company, Dayton, Ohio. Filed June 13, 1921.

Red Duck

Particular description of goods.—Lubricating Oils and Greases.
Claims use since May 6, 1921.

Ser. No. 149,096. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) The Porter Chemical Company, Hagerstown, Md. Filed June 13, 1921.

Character Craft

Particular description of goods.—A Game Involving Character Analysis.
Claims use since June 7, 1921.

Ser. No. 149,164. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) American Oil Burner Company, New York, N. Y. Filed June 15, 1921.

CALOROIL

Particular description of goods.—Oil-Heaters.
Claims use since about May 1, 1920.

Ser. No. 149,224. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) General Utility Company, Philadelphia, Pa. Filed June 16, 1921.

LIGHTNING

Particular description of goods.—Piston-Rings.
Claims use since May, 1919.

Ser. No. 149,529. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) Victor Balata & Textile Belting Co., New York, N. Y., and Easton, Pa. Filed June 22, 1921.

"PETROL"

Particular description of goods.—Textile Belting.
Claims use since Apr. 1, 1921.

Ser. No. 149,559. (CLASS 38. PRINTS AND PUBLICATIONS.) W. F. Roberts Company, Inc., Washington, D. C. Filed June 23, 1921.



Particular description of goods.—Printed and Engraved Matter.
Claims use since Oct. 3, 1904.

Ser. No. 149,763. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) Lang & Pressprich, New Rochelle, N. Y. Filed June 28, 1921.

MIDGIE-VIC

Particular description of goods.—Toy Music-Boxes.
Claims use since early in April, 1921.

Ser. No. 149,774. (CLASS 38. PRINTS AND PUBLICATIONS.) Public Ledger Company, Philadelphia, Pa. Filed June 28, 1921.

THAT REMINDS ME

Particular description of goods.—Newspaper-Cartoons.
Claims use since April, 1921.

Ser. No. 149,896. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) Emanuel Folgman, Brooklyn, N. Y. Filed July 1, 1921.

DUPLEX

Particular description of goods.—A Self-Blowing Torch.
Claims use since May 9, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 9, 1921.

145,533. CORSETS AND BRASSIÈRES. American Lady Corset Co., Detroit, Mich.
Filed September 22, 1920. Serial No. 137,442. PUBLISHED APRIL 26, 1921.

145,534. PRINTED BOOKLETS AND PAMPHLETS. American Social Hygiene Association, Inc., New York, N. Y.
Filed January 11, 1921. Serial No. 142,057. PUBLISHED MAY 3, 1921.

145,535. PUBLICATIONS ISSUED MONTHLY. Armstrong Cork Co., Pittsburgh and Lancaster, Pa.
Filed February 9, 1921. Serial No. 143,334. PUBLISHED MAY 3, 1921.

145,536. A MONTHLY MAGAZINE OR HOUSE ORGAN. Association of Army and Navy Stores, Inc., New York, N. Y.
Filed February 12, 1921. Serial No. 143,469. PUBLISHED MAY 3, 1921.

145,537. A PREPARED CEREAL BREAKFAST FOOD. Emile Berliner, Washington, D. C.
Filed January 28, 1921. Serial No. 142,872. PUBLISHED MAY 3, 1921.

145,538. CERTAIN ARTICLES OF CLOTHING. George Borgfeldt & Co., New York, N. Y.
Filed January 6, 1921. Serial No. 141,895. PUBLISHED APRIL 26, 1921.

145,539. CANDIES. The Brecht Candy Co., Denver, Colo.
Filed September 16, 1919. Serial No. 122,758. PUBLISHED JUNE 8, 1920.

145,540. CERTAIN ARTICLES OF CLOTHING. Brownstein-Louis Company, Los Angeles, Calif.
Filed July 19, 1919. Serial No. 120,689. PUBLISHED MARCH 16, 1920.

145,541. CERTAIN ARTICLES OF CLOTHING. Brownstein-Louis Company, Los Angeles, Calif.
Filed July 19, 1919. Serial No. 120,693. PUBLISHED MAY 11, 1920.

145,542. CANNED FRUITS, CANNED BERRIES, CANNED VEGETABLES, DRIED FRUIT, AND FRESH DECIDUOUS FRUIT. Brownsville Canning Co., Corvallis, Oreg.
Filed February 1, 1921. Serial No. 143,036. PUBLISHED MAY 3, 1921.

145,543. CERTAIN ARTICLES OF CLOTHING. Brummel & Mendelsohn, New York, N. Y.
Filed January 13, 1920. Serial No. 127,075. PUBLISHED APRIL 26, 1921.

145,544. TIRE-PUMPS AND GREASE-GUNS. B. & S. Manufacturing Co., Brooklyn, N. Y.
Filed February 21, 1921. Serial No. 143,850. PUBLISHED MAY 3, 1921.

145,545. CANNED FRUITS AND CANNED VEGETABLES. California Co-Operative Canneries, San Jose, Calif.
Filed February 1, 1921. Serial No. 143,038. PUBLISHED MAY 3, 1921.

145,546. ORANGE MARMALADE AND ORANGE JELLY. California Fruit Products Co., Los Angeles, Calif.
Filed February 1, 1921. Serial No. 143,040. PUBLISHED MAY 3, 1921.

145,547. STEAM-BOILERS AND APPURTENANCES THERETO—NAMELY, MARINE AND STATIONARY STEAM-BOILERS AND SMOKESTACKS. The Christopher Cunningham Company, Brooklyn, N. Y.
Filed January 20, 1921. Serial No. 142,472. PUBLISHED MAY 3, 1921.

145,548. PRINTED PAMPHLETS, CIRCULARS, AND BOOKS. Community Service (Incorporated), New York, N. Y.
Filed February 11, 1921. Serial No. 143,427. PUBLISHED MAY 3, 1921.

145,549. OLEOMARGARIN. Crown Margarin Company, St. Louis, Mo.
Filed January 31, 1921. Serial No. 142,959. PUBLISHED MAY 3, 1921.

145,550. OLEOMARGARIN. Crown Margarin Company, St. Louis, Mo.
Filed January 31, 1921. Serial No. 142,960. PUBLISHED MAY 3, 1921.

145,551. CHOCOLATE CANDIES. Dinou Brothers, Chicago, Ill., assignor to John Theodore, James Potter, and Gust Valulis, Chicago, Ill.
Filed January 30, 1920. Serial No. 127,754. PUBLISHED APRIL 26, 1921.

145,552. OVERHEAD-TRAMWAY SWITCHES. J. Duncan Company, Everett, Mass.
Filed February 10, 1921. Serial No. 143,384. PUBLISHED MAY 3, 1921.

145,553. SCYTHES AND AXES. Dunn Edge Tool Co., Oakland, Me., assignor to Seymour Manufacturing Company, Incorporated, St. Louis, Mo., a Corporation of Delaware.
Filed February 21, 1921. Serial No. 143,857. PUBLISHED MAY 3, 1921.

145,554. BENCH GRINDING-MACHINES. Duwell Manufacturing Company, Worcester, Mass., assignor to Clark-Hunter Company, Inc., Boston, Mass., a Corporation of Massachusetts.
Filed January 21, 1921. Serial No. 142,556. PUBLISHED MAY 3, 1921.

145,555. WOOLEN AND WOOLEN AND SILK PIECE GOODS. Joseph Eckstein, Inc., New York, N. Y.
Filed January 11, 1921. Serial No. 142,061. PUBLISHED MAY 3, 1921.

145,556. HAND-EMBROIDERED UNDERWEAR. French American Import Co., Boston, Mass.
Filed November 18, 1920. Serial No. 139,794. PUBLISHED APRIL 26, 1921.

145,557. COTTON AND SILK PIECE GOODS AND COMBINATIONS OF THE SAME. Friedman & Krieger, New York, N. Y.
Filed February 18, 1921. Serial No. 143,752. PUBLISHED MAY 3, 1921.

145,558. FRESH DECIDUOUS FRUIT. Graham-Henshaw, Lancaster, Calif.
Filed February 1, 1921. Serial No. 143,047. PUBLISHED MAY 3, 1921.

145,559. WAISTS AND BLOUSES. Gross & Weiss, Inc., New York, N. Y.
Filed November 16, 1920. Serial No. 139,710. PUBLISHED APRIL 26, 1921.

145,560. MEN'S OVERCOATS. HARRODS (NORTH AMERICA) LTD., New York, N. Y.
Filed October 20, 1920. Serial No. 138,566. PUBLISHED APRIL 26, 1921.

145,561. COTTON GOODS IN THE PIECE. THE HETTRICK MANUFACTURING COMPANY, Toledo, Ohio.
Filed February 18, 1921. Serial No. 143,759. PUBLISHED MAY 3, 1921.

145,562. MEN'S SUITS IN TWO AND THREE PIECE GARMENTS. ISAACS & KUBRIN, New York, N. Y.
Filed March 29, 1920. Serial No. 130,329. PUBLISHED APRIL 26, 1921.

145,563. WORKINGMEN'S CLOTHES—NAMELY, OVERALLS, JUMPERS, COATS, TROUSERS, AND SHIRTS. THE KNOBB-SCHLAUDT WHOLESALE CO., Hutchinson, Kans.
Filed December 7, 1920. Serial No. 140,730. PUBLISHED APRIL 26, 1921.

145,564. CUTTERS FOR PHONOGRAPH-NEEDLES AND THE LIKE. GUSTAVE LIDSEEN, Chicago, Ill.
Filed January 26, 1921. Serial No. 142,794. PUBLISHED MAY 3, 1921.

145,565. BREAD. GUSTAV E. LINDBLOM, Dolgeville, N. Y.
Filed January 28, 1921. Serial No. 142,890. PUBLISHED MAY 3, 1921.

145,566. A MONTHLY MEDICAL JOURNAL. THE MEDICAL COUNCIL, Philadelphia, Pa.
Filed January 24, 1921. Serial No. 142,732. PUBLISHED MAY 3, 1921.

145,567. CERTAIN ARTICLES OF CLOTHING. J. A. MIGEL, INC., New York, N. Y.
Filed December 11, 1920. Serial No. 140,953. PUBLISHED APRIL 26, 1921.

145,568. CERTAIN ARTICLES OF CLOTHING. CHARLES MUNTER, New York, N. Y.
Filed January 6, 1921. Serial No. 141,919. PUBLISHED APRIL 26, 1921.

145,569. SUSPENDERS, GARTERS, ARMBANDS, AND BELTS FOR PERSONAL WEAR. THE OHIO SUSPENDER COMPANY, Mansfield, Ohio.
Filed October 14, 1920. Serial No. 138,300. PUBLISHED APRIL 26, 1921.

145,570. POWDERED EGG-ALBUMEN AND POWDERED EGG-YOLK ALONE AND IN COMBINATION WITH EACH OTHER. ORBIS PRODUCTS TRADING CO., INC., New York, N. Y.
Filed January 26, 1921. Serial No. 142,803. PUBLISHED MAY 3, 1921.

145,571. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed December 6, 1920. Serial No. 140,675. PUBLISHED APRIL 26, 1921.

145,572. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed December 6, 1920. Serial No. 140,676. PUBLISHED APRIL 26, 1921.

145,573. MACHINERY FOR MANUFACTURING CONCRETE PRODUCTS. THE POST MANUFACTURING COMPANY, Kent, Ohio.
Filed February 12, 1921. Serial No. 143,515. PUBLISHED MAY 3, 1921.

145,574. SHOES MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF SUCH MATERIALS. THE QUEEN CITY TURN SHOE COMPANY, Cincinnati, Ohio.
Filed December 2, 1920. Serial No. 140,542. PUBLISHED APRIL 26, 1921.

145,575. CERTAIN KNIVES AND SHARPENING STEELS. THE REGAL SILVER MFG. CO., New Haven, Conn.
Filed January 28, 1921. Serial No. 142,908. PUBLISHED MAY 3, 1921.

145,576. MEN'S, WOMEN'S, AND INFANTS' HOSIERY. H. K. REGAR & SONS, Bridgeport, Pa.
Filed September 8, 1920. Serial No. 136,954. PUBLISHED APRIL 26, 1921.

145,577. WOVEN COTTON-FABRIC UNDERWEAR FOR MALE WEAR—NAMELY, UNION-SUITS, SHIRTS, AND DRAWERS. REGATTA MANUFACTURING CO. INC., Baltimore, Md.
Filed November 17, 1920. Serial No. 139,753. PUBLISHED APRIL 26, 1921.

145,578. CANNED FRUITS. RICHMOND CHASE COMPANY, San Jose, Calif.
Filed February 1, 1921. Serial No. 143,041. PUBLISHED MAY 3, 1921.

145,579. PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed February 16, 1921. Serial No. 143,662. PUBLISHED MAY 3, 1921.

145,580. COATS, CAPES, SETS, SCARFS, MUFFS, HATS, AND CAPS OF FUR. CARSON PIRIE SCOTT & CO., Chicago, Ill.
Filed March 9, 1920. Serial No. 129,476. PUBLISHED APRIL 26, 1921.

145,581. TYPEWRITERS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 18, 1921. Serial No. 143,792. PUBLISHED MAY 3, 1921.

145,582. BOYS' BLOUSES, PLAY-SUITS OR ROMPERS, SHIRTS, AND KNICKERBOCKERS. SONNY MANUFACTURING CO., Milwaukee, Wis.
Filed April 14, 1920. Serial No. 131,132. PUBLISHED JUNE 15, 1920.

145,583. BEDSPREADS. STEVENS MANUFACTURING CO., Fall River, Mass.
Filed February 18, 1921. Serial No. 143,790. PUBLISHED MAY 3, 1921.

145,584. HATS FOR WOMEN, MISSES, AND CHILDREN AND FOR HAT-FRAMES. ROBINSON STRAUS & Co., St. Paul, Minn.
Filed December 13, 1920. Serial No. 141,037. PUBLISHED APRIL 26, 1921.

145,585. VOILE PIECE GOODS. TURNER & WALLS, New York, N. Y.
Filed January 15, 1921. Serial No. 142,302. PUBLISHED MAY 3, 1921.

145,586. LADIES' DRESSES, WAISTS, AND UNDERGARMENTS. JOSEPH H. VALENSTEIN, New York, N. Y.
Filed February 18, 1920. Serial No. 128,574. PUBLISHED NOVEMBER 9, 1920.

145,587. A SEMI-ANNUAL PUBLICATION. JOSEPH A. VOGELMANN, Brooklyn, N. Y.
Filed February 9, 1921. Serial No. 143,371. PUBLISHED MAY 3, 1921.

145,588. APRONS AND HOUSE-DRESSES. THE WARD-STILSON COMPANY, Anderson, Ind.
Filed April 6, 1921. Serial No. 145,866. PUBLISHED MAY 31, 1921.

LABELS

REGISTERED AUGUST 9, 1921.

23,152.—*Title:* "LIQUID NAIL ENAMEL." (For Enamel for the Nails.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,153.—*Title:* "AYERISTOCRAT." (For Non-Greasy, Finishing, and Vanishing Cream.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,154.—*Title:* "SKIN & TISSUE BUILDER." (For Preparations for the Skin and Tissues and Massage-Cream.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,155.—*Title:* "SKIN & TISSUE BUILDER." (For Preparation for the Skin and Tissues and Massage-Cream.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,156.—*Title:* "AYER'S FACE CREAM." (For Face-Cream.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,157.—*Title:* "AYER'S FACE CREAM." (For Face-Cream.) HARRIETT HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,158.—*Title:* "LUXURIA." (For Cosmetics.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,159.—*Title:* "COEUR DE VIOLETTE." (For Cerate.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,160.—*Title:* "LIP STICKS." (For Rouge, Cream, or Healing Compounds in the Form of Sticks and for Application to the Lips.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,161.—*Title:* "CUTICLE REMOVER." (For Preparations for Removing Surplus Cuticle.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,162.—*Title:* "COAL DUST TWINS." (For Puzzles.) CONNOR CARROLL, Boston, Mass. Filed February 5, 1921.

23,163.—*Title:* "GRECO." (For Candy-Boxes.) THE C. J. FOX COMPANY, Providence, R. I. Filed February 14, 1921.

23,164.—*Title:* "HELLER'S GOLDEN GLOSS SHINE." (For Containers Holding Heller's Golden Gloss Shine, a Metal-Polish.) B. HELLER & CO., Chicago, Ill. Filed March 24, 1921.

23,165.—*Title:* "ORANGE-ZEST." (For Containers Holding Orange-Zest, an Orange Flavoring Compound.) B. HELLER & CO., Chicago, Ill. Filed March 24, 1921.

23,166.—*Title:* "TANALINE." (For Receptacle Containing Tanaline, a Preparation for Tanning Animal Skins.) B. HELLER & CO., Chicago, Ill. Filed March 24, 1921.

23,167.—*Title:* "OZO WASTE PIPE OPENER." (For Receptacles Containing Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) B. HELLER & CO., Chicago, Ill. Filed March 24, 1921.

23,168.—*Title:* "BIG LICK." (For Hard Candy on Sticks.) ROANOKE CANDY COMPANY, INC., Roanoke, Va. Filed February 16, 1921.

23,169.—*Title:* "SERVICE TELEPHONE INDEX." (For Indexed Blank Memorandum-Booklets to be Used as Telephone Memorandum-Records by Telephone Subscribers.) FRANK A. WEEKS MFG. CO., New York, N. Y. Filed September 19, 1918.

23,170.—*Title:* "WRIGLEY'S P–Ks SUGAR COATED GUM." (For Gum.) WM. WRIGLEY, JR., COMPANY, Chicago, Ill. Filed March 23, 1921.

23,271.—*Title:* "WRIGLEY'S P–Ks SUGAR COATED GUM." (For Gum.) WM. WRIGLEY, JR., COMPANY, Chicago, Ill. Filed March 23, 1921.

PRINTS

REGISTERED AUGUST 9, 1921.

5,684.—*Title:* "TELL TIME RIGHT." (For Advertising Purposes for Watches and Clocks.) J. P. BECKER, San Francisco, Calif. Filed February 23, 1921.

5,685.—*Title:* "HE'S PAINTING IT WITH COOK'S." (For Advertising Purposes for Paint Products.) COOK PAINT & VARNISH COMPANY, Kansas City, Mo. Filed February 21, 1921.

5,686.—*Title:* "DON'T FORGET YOUR WOMAN'S HOME COMPANION." (For Advertising Purposes for a Periodical Publication Entitled *Woman's Home Companion*. THE CROWELL PUBLISHING COMPANY, New York, N. Y. Filed February 16, 1921.

5,687.—*Title:* "HERE'S YOUR LATEST AMERICAN MAGAZINE." (For Advertising Purposes for a Periodical Publication Entitled *American Magazine*. THE CROWELL PUBLISHING COMPANY, New York, N. Y. Filed February 16, 1921.

5,688.—*Title:* "HILLS BROS. RED CAN COFFEE." (For Advertising Purposes for Coffee.) HILLS BROS., San Francisco, Calif. Filed March 9, 1921.

5,689.—*Title:* "AUTOISTS ACCURATE GARAGE THERMOMETER." (For Garage-Thermometer.) HERMAN HOELDERLE, Milwaukee, Wis. Filed December 21, 1920.

5,690.—*Title:* "ORDER POST TOASTIES TO-DAY." (For Advertising Purposes for Cereal Foods—Corn Flakes.) POSTUM CEREAL CO. INC., Battle Creek, Mich. Filed February 16, 1921.

5,691.—*Title:* "WINK." (For Advertising Purposes for Ginger-Flavored Beverages.) STAR BEVERAGE COMPANY, Belleville, Ill. Filed May 15, 1920.

5,692.—*Title:* "EVERYBODY NEEDS ONE." (For Advertising Purposes for Umbrellas.) UMBRELLA MANUFACTURERS ASSOCIATION OF AMERICA, New York, N. Y. Filed January 22, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

DU PONT *v.* THE GINTER COMPANY.

Decided July 7, 1921.

1. TRADE-MARKS — IDENTITY—"DU PONT" ASSOCIATED WITH COAT-OF-ARMS—SURNAME OF INDIVIDUAL—NOT REGISTRABLE.

A mark consisting of the words "Du Pont" above a fanciful design resembling a coat-of-arms on which are the letters "D P" refused registration on the opposition of one having the surname "Du Pont," although opposer had not applied the name to any goods, the modification from the name alone being comparatively insignificant.

2. SAME—OPPOSITION TO REGISTRATION—DAMAGE.

In order to sustain an opposition, it is not necessary to show trade interference and specific damage.

3. SAME—REGISTRABILITY—SURNAME THAT OF NOTED CELEBRITY.

That a mark is the surname of a noted celebrity is not sufficient basis for its registration.

APPEAL on motion.

TRADE-MARK FOR CANDY, CRACKERS, BISCUITS, TEA, COFFEE, COCOA, CHOCOLATE, CANNED FRUITS, ETC.

Messrs. Prindle, Wright, and *Small* for Du Pont.

Mr. Henry C. Thomson for The Ginter Company.

FENNING, *Assistant Commissioner:*

This is an appeal from a decision of the Examiner of Interferences adjudging that the applicant is not entitled to the registration of a trade-mark.

The opposer is an individual whose surname is Du Pont. The mark sought to be registered consists of the words "Du Pont" above a fanciful design resembling a coat-of-arms on which are the letters "D P."

The opposition proceedings are instituted under section 6 of the act of February, 1905, which allows any person who believes he would be damaged by the registration of a mark to oppose the same, and section 5 of the same act, which provides that no mark which consists merely in the name of an individual, firm, corporation, or association, not written, etc., in a distinctive manner, shall be registered. After answer was filed opposer moved for judgment under equity rule 29.

It is urged that applicant's mark does not consist merely of the name of an individual. Applying to the mark the test indicated in *ex parte A. Engelhard & Sons Co.*, (1904, C. D., 122; 109 O. G., 1880,) it seems clear that—

> the mark under consideration presents an appearance so little modified from the name used alone as to make the modification comparatively insignificant.

In that case there was a picture of a cloud-bank associated with the name. In this case there is the representation of a coat-of-arms which would seem to emphasize the surname feature of the mark. The same conclusion is supported by *American Steel Foundries,* (264 O. G., 353;) *Simplex Electric Heating Company* v. *Ramey Co.*, (243 O. G., 793; 46 App. D. C., 400,) and other cases. It is true that in at least some of these cases the question of the use of the mark on certain goods was considered, whereas in the present case it is admitted in the opposition papers that the opposer has not applied the mark to any goods; but under the clear words of section 5 of the statute it would seem that the name is not registrable, irrespective of use. Moreover, in such cases as *Mansfield Tire & Rubber Company* v. *Ford Motor Company* (222 O. G., 1056; 44 App. D. C., 205) it is held that trade interference and specific damage need not be shown. Applicant calls attention to the fact that the mark comprises the surname of a noted celebrity; but it has been held that this is not sufficient basis for the registration of a mark. (*Stephano Bros.* v. *Stamatopoulos*, 238 Fed. Rep., 89.)

It may be that applicant has a common-law right to its mark, but it cannot be registered under the statute. (238 Fed. Rep., 89.)

The decision of the Examiner of Interferences is affirmed.

THE ROSENBERG COMPANY *v.* PHILLIPS-JONES COMPANY, INC.

Decided July 19, 1921.

1. TRADE-MARKS—IDENTITY—"AMERICAN ACE"—"ACE" AND REPRESENTATION OF AEROPLANE-PROPELLER, ETC.

A mark consisting of the words "American Ace" *Held* to so nearly resemble a mark consisting of the word "Ace" surmounting the representation of an aeroplane-propeller, below which appear two stars, the whole being surrounded by a rectangular border, as to be likely to cause confusion.

2. SAME—IDENTITY OF GOODS.

Overalls, combination-suits, pants, shirts, and work-clothing are goods of the same descriptive properties as men's outer shirts, men's pajamas, men's night-shirts, men's underwear, both knit and woven goods, and men's collars and cuffs, both soft and laundered.

3. SAME—INTERFERENCE—REGISTRATION AFFORDS PRIMA FACIE PROOF OF OWNERSHIP AT DATE OF FILING APPLICATION.

The filing of a regular application for the registration of a trade-mark supported by an affidavit under section 2 and accompanied by specimens of the mark as actually used should be taken as *prima facie* proof that the applicant was the owner of the mark on the date the application was filed, and that fact having been established the presumption must arise that the applicant continued to own the mark and to use it.

4. SAME—INTERFERENCE—APPLICANT AND REGISTRANT—APPLICANT'S PROOFS MUST OVERCOME REGISTRANT'S FILING DATE.

In an interference between a registrant and an applicant the certificate of registration is *prima facie* proof of use and ownership of the mark on the filing date of the application for registration, which *prima facie* proof is not overcome by proof of adoption and use by the applicant prior to the date of registration, but subsequent to the date of the application.

APPEAL from Examiner of Interferences.

OVERALLS, COMBINATION-SUITS, PANTS, SHIRTS, AND WORK-CLOTHING.

Messrs. H. B. Willson and Co. for The Rosenberg Company.

Mr. W. B. Morton for Phillips-Jones Company, Inc.

FENNING, *Assistant Commissioner:*

This is an appeal from the decision of the Examiner of Interferences awarding priority of a trade-mark to The Rosenberg Company, Inc., the junior party.

The Phillips-Jones Company, Inc., filed an application on February 8, 1919, for its trade-mark which was registered on July 22, 1919, No. 126,057. The mark is applied to men's outer shirts, men's pajamas, men's night-shirts, men's underwear, both knit and woven goods, and men's collars and cuffs, both soft and laundered. The mark consists of the word "Ace" surmounting the representation of an aeroplane-propeller, below which appear two stars, the whole being surrounded by a rectangular border.

The Rosenberg Company filed its application complete on May 14, 1919, having filed an informal application on April 12, 1919. It claims use on overalls, combination-suits, pants, shirts, and work-clothing of its mark consisting of the words "American Ace." The labels filed with the application show an aeroplane in addition to the words "American Ace."

The Rosenberg Company contends that there is no interference in fact because the marks are distinguishable, but the word "Ace" associated with the aeroplane-propeller is certainly near enough to the mark "American Ace," as shown, to be likely to cause confusion.

The Rosenberg Company further contends that the marks are applied to goods of different descriptive properties; but it is believed that a reading of the list of articles referred to in the two applications, as indicated above, will show this ground untenable.

The Phillips-Jones Company took no testimony.

Arthur Rosenberg, president of The Rosenberg Company, testified that their mark had been used continuously since April 1, 1919, and he mentions the names of a number of customers in various States. To some extent this testimony is supported by the deposition of Goldsmith. This sufficiently shows use of the mark by The Rosenberg Company prior to the date of registration of the mark by the Phillips-Jones Company, and on this state of facts the Examiner of Interferences awarded priority to The Rosenberg Company.

The Phillips-Jones Company before the Examiner of Interferences and also on this appeal urges that it should be given its record filing date of February 8, 1919, for the use of its mark. Such date is prior to any use alleged or proven by The Rosenberg Company and consequently would necessitate awarding priority to the Phillips-Jones Company.

The Examiner of Interferences, however, held that the Phillips-Jones Company could not have the benefit of its filing date, and in support thereof cited several cases.

I have been unable to find a case directly in point. In *Canepa* v. *Boehm* (C. D., 1905, 291; 117 O. G., 2089,) the Commissioner says that the date to be conceded a registrant is the date of the certificate of registration and not an earlier date, but it was unnecessary for him to consider that matter, since the junior party there proved a date prior to the registrant's application date, and the same is true of *Voegeli Brothers* v. *Knee* (2 C. D., 1912, 391; 185 O. G., 258; T. M. Rep., 390,) and *Greene, Tweed & Co.* v. *Manufacturers' Belt Hook Company*, (C. D. 1908, 294; 137 O. G., 2,221,) in both of which the junior party proved use prior to the application date of the other party.

The attorney for The Rosenberg Company cites two other cases which contain statements supporting his contention; but in neither case was the particular point here considered in issue. In *Lowden* v. *Allen Brothers Company*, (C. D., 1908, 247; 137 O. G., 979,) neither party had taken testimony, but priority was awarded to the party whose application date was earlier. In *Dunlevy & Brother* v. *Nelson Morris & Co.*, (C. D., 1908, 52; 132 O. G., 1588,) there was an interference between an applicant and a registrant under the statutes in effect prior to the 1905 Trade-Mark Act. The Commissioner there said that where a registrant took no testimony the applicant should prevail if he established a date of adoption and use prior to the date of registration; but in fact in that case the applicant established a date which was not merely prior to the date of registration, but which was also prior to the date of the application on which the registration was based.

In the case of *William Wrigley, Jr., & Co.* v. *Norris* (C. D., 1910, 307; 152 O. G., 488; 34 App. D. C., 138,) the Court of Appeals of the District of Columbia considered an opposition proceeding

brought against an applicant who was endeavoring to register his mark under the ten-year clause of the statute. The court there held that the application being regular in form entitled the applicant *prima facie* to the right of registration; but since the opposer had introduced testimony showing the use of the mark by others during a part of the ten years next preceding February 20, 1905, the date of the Trade-Mark Act, the applicant was not entitled to registration. By inference, at least, the court there indicated that in the absence of testimony to the contrary the applicant would have had *prima facie* title to the mark for the ten years prior to February 20, 1905, based on his application.

In the present case The Rosenberg Company's testimony is not in the least directed toward showing that the Phillips-Jones Company did not use the mark or that they abandoned the mark. The Rosenberg Company's testimony was directed solely to its use of its own mark. All that The Rosenberg Company endeavored to prove may be taken for true, but still the Phillips-Jones Company will be entitled to the registration of its mark if the sworn statement in its formal application for registration is believed, and, as stated, this has not been questioned.

The Trade-Mark Act of 1905 in section 1 provides for the filing of the application, which, among other things, shall state the length of time during which the mark has been used and which shall be accompanied by specimens of the mark *as actually used*. Section 2 provides "In order to create any right whatever" the application must be accompanied by a verification to the effect that the applicant is the owner of the trade-mark and that no other person has the right to use the mark in the United States, (of course, at the date of the application.)

Section 11 of the law provides that the certificate of registration shall state the date on which the application for registration was filed or received in the Patent Office, and section 16 provides that the registration of a trade-mark under the provisions of this act shall be *prima facie* evidence of ownership.

The natural inference from this would be that the certificate of registration, which by law includes the date of the application, should be taken as evidence of ownership of the mark by the applicant on the date the application was filed, especially in view of the fact that the application must be sworn to and must be accompanied by other evidence in the form of specimens of the mark *as actually used*. It would seem that this is the "right" which may be created under section 2, else the "right" will be barren.

Moreover, section 13 provides for the cancelation of the registration of a mark if it shall appear that the registrant was not entitled to the use of the mark *at the date of his application* for registration thereof—not the date of registration.

All this leads to the conclusion that the filing of a regular application for the registration of a trade-mark supported by an affidavit under section 2 and accompanied by specimens of the mark as actually used should be taken as *prima facie* proof that the applicant was the owner of the mark on the date the application was filed, and that fact having been established the presumption must arise that the applicant continued to own the mark and to use it.

Therefore the junior party to an interference or the opposer to an application for registration should not be awarded priority unless he shows use by himself prior to the application date of the opponent, or that his opponent is not entitled to the use of the mark, or that his opponent has not used the mark or has abandoned the use of the mark.

In the case of *Deitsch et al.* v. *George R. Gibson Co.*, (155 Fed. Rep., 383,) Judge Hough, in considering a trade-mark, apparently assented to the suggestion that the *prima facie* ownership of the mark was not limited to the date of the certificate of registration, although he did in that case find that affidavits which were submitted on a motion for preliminary injunction set out facts sufficient to overcome this *prima facie* right.

Whether an applicant should be given the date he claims for first use in his application is not in issue here.

Inasmuch as the Phillips-Jones Company's application was filed prior to any date of use proven by The Rosenberg Company and inasmuch as there is nothing in the record to combat the presumption of ownership of the mark by the Phillips-Jones Company on the date their application was filed, the Examiner of Interferences is reversed, and priority is awarded to The Phillips-Jones Company.

Renewal of Trade-Marks—Abstract of Title.

(ORDER NO. 2,686.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 6, 1921.

On and after this day in applications for the renewal of a registration of a trade-mark no abstract of title need be furnished by the applicant, but the matter will be referred to the Assignment Division for report thereon. This order shall affect pending applications in which abstracts have not been furnished by the applicant.

In all cases where an applicant for trade-mark registration alleges ownership of a trade-mark previously registered to another an official abstract of title, to be furnished by the applicant, showing such ownership will be required for the application, or the applicant will be required to pay to the Office the usual charge for making the title search on such previously registered trade-mark.

THOMAS E. ROBERTSON,
Commissioner.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office.

Vol. 289—No. 3. TUESDAY, AUGUST 16, 1921. Price—$5 per year.

[PUBLISHED AUGUST 30, 1921.]

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of August 16, 1921.

Patents	710	No. 1,387,445 to No. 1,388,154, inclusive.
Trade-Marks	337	No. 145,589 to No. 145,925, inclusive.
Reissues	3	No. 15,177 to No. 15,179, inclusive.
Total	1050	

International Bureau at Habana—Protection of Trade-Marks.

(ORDER NO. 2,685.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 6, 1921.

Under the convention adopted for the establishment of the International Bureau at Habana and regulations of such Bureau (280 O. G., 195) it is provided, to carry into effect the convention for the protection of trade-marks, that the legal representative of the administration of the country of origin shall communicate to the International Bureau (articles 2–1) the claim of the owner of the mark.

Hereafter no official abstract of title need be furnished by the applicant, but a fee of $5 must be paid the U. S. Patent Office, which will make the title search and perform the other work in connection with the certificate to the Habana Bureau.

Hereafter the applicant need not fill in the official form for such certificate, but in addition to paying the fee of $5 must provide the Office with (*a*) an international money order for $50 to the order of "Director of the International Bureau, Habana;" (*b*) an electrotype of the trade-mark, not larger than 10 centimeters in either dimension; (*c*) should the United States registration claim color as a distinctive element of the trade-mark he shall furnish thirty copies of the mark printed on paper, reproduced in color; (*d*) a statement including (1) the name of the owner of the mark; (2) the address of the owner of the mark; (3) the number and date of registration of the mark in the United States Patent Office, and (4) a translation into Spanish of the particular description of goods as stated in the certificate of registration.

THOMAS E. ROBERTSON,
Commissioner.

Fee for Recording Articles of Incorporation.

(ORDER NO. 2,688.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 9, 1921.

For the present the Patent Office is recording the articles of incorporation of companies, so that their names may be available for trade-mark searchers. This is done at the request of the attorneys and is not advocated by the Office. As long as this practice continues a charge will be made for such record of $1.00 for 300 words or less; $2.00 if over 300 words and under 1,000 words; $1.00 for each additional 1,000 words or portion thereof.

THOMAS E. ROBERTSON,
Commissioner.

Photostat Copies.

In ordering photostat copies of United States and foreign patents, when only the number of the patent is given the whole patent, comprising specification and drawing, will be furnished, unless the order specifically states that the "specification only" or "drawing only" is required. Care should be taken in making out orders for foreign patents to give the year of the patent, as in old French and British patents the number will vary according to the year.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Mark section will include: Trade-Marks published under the act of 1905; Trade-Marks registered under the act of 1905 and under the act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

Condition of Applications Under Examination at Close of Business August 6, 1921.

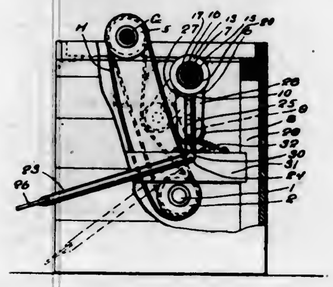
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Aug. 16; oldest amended, Nov. 1.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Mar. 3	Mar. 15	682
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Nov. 19	Jan. 10	1,544
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 18	Nov. 5	721
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 20	Mar. 16	1,575
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 18	Jan. 3	839
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Feb. 26	Apr. 27	987
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes.	Feb. 12	Apr. 6	1,564
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	Apr. 20	June 22	645
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Oct. 19	June 27	829
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 4	May 12	1,190
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Apr. 15	May 17	431
222	12. PIERCE, P. F., Machine Elements.	Dec. 30	May 16	1,032
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 23	Apr. 27	1,618
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 2	June 13	868
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 16	Jan. 5	1,638
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony.	Sept. 15	Dec. 30	1,534
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 3	Apr. 21	885
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 7	Jan. 5	1,649
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 16	Feb. 25	948
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 9	Apr. 9	1,264
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 29	Apr. 22	579
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	Apr. 25	May 21	458
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 6	May 9	810
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines.	Jan. 5	Apr. 23	880
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 1	June 3	289
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants.	Jan. 11	Mar. 12	785
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus.	Feb. 18	Apr. 16	1,228
225	28. BENSON, A. R., Internal-Combustion Engines.	Jan. 7	Mar. 18	1,212
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Jan. 8	May 28	703
152	30. SULLIVAN, M. B., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 7	June 11	1,171
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Sept. 30	Nov. 1	2,020
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange.	Oct. 1	May 3	1,117
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Feb. 10	Mar. 24	747
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	June 1	June 16	343
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 6	June 29	520
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Mar. 12	Feb. 28	1,551
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications.	Jan. 17	Jan. 25	2,132
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Mar. 23	Mar. 24	1,142
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 11	Dec. 18	1,767
273	40. HOPKINS, F. M., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 22	Mar. 9	2,174
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels.	Jan. 11	Mar. 26	868
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Nov. 8	Nov. 8	2,210
382	43. LANE, C. H., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Nov. 4	Jan. 6	1,367
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Nov. 26	May 3	530
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices.	Feb. 5	Mar. 24	1,108
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Jan. 26	Mar. 2	986
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Nov. 29	Mar. 18	1,076
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Nov. 9	May 5	4,508
	Designs	Nov. 10	Feb. 9	2,100
	Labels and Prints	June 20	July 16	471

Total number of applications awaiting action, excluding Trade-Mark division, 52,216; Trade-Mark division, 7,079.

PATENTS

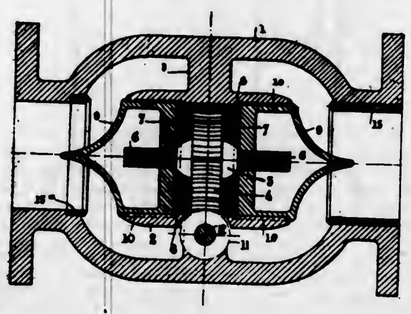
GRANTED AUGUST 16, 1921.

1,387,445. CONTROL MEANS FOR DRIVE MECHANISM. CHARLES W. ANDERSON, Brooklyn, N. Y. Filed May 28, 1919. Serial No. 300,304. 6 Claims. (Cl. 64—5.)



1. The combination with a drive pulley, a driven pulley, a slack belt extending between said pulleys, a belt-tightener movable into and out of belt-tightening position, and a frame for supporting all of said parts, of a foot lever pivotally supported by said frame, being connected to swing said belt-tightener into tightening position at will, and having a foot treadle portion extending to a position of accessibility beyond said frame.

1,387,446. VALVE FOR PIPES FOR WATER AND OTHER FLUIDS. ANTOINE JOSEPH ASTIER, Colombes, France. Filed Mar. 19, 1919. Serial No. 283,636. 2 Claims. (Cl. 277—33.)



1. A valve comprising a body having alined outlets at opposite ends and also having a sleeve between and concentric with said outlets, valve seats at the inner ends of said outlets, valves mounted for sliding movement in said sleeve toward and from said seats, a shaft having oppositely threaded end portions engaging corresponding openings in the valves, an operating gear on said shaft and between the valves, cushioning members between the valves and said gear to permit slight independent movement of the valves, and means, coacting with said gear to turn said shaft and thereby operate the valves.

1,387,447. ROCK-DRILL. ALLEN ALFORD, Waco, Tex. Filed July 28, 1920. Serial No. 399,483. 2 Claims. (Cl. 255—71.)

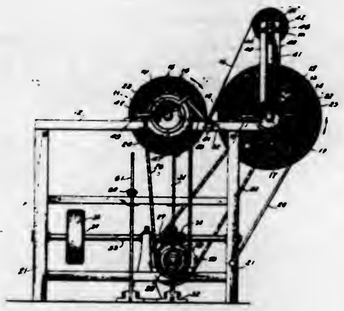


2. A drilling tool for wells for boring rock and similar hard formations, comprising a conoidal shaped drill body and a conical bit on one end thereof, a plurality of supporting members placed through the drill body from side to side and extending from the top to the bottom of the body from opposite sides of the body and extended beyond the periphery of the body, corrugatedly surfaced rotatable rollers on the ends of the supporting members, means for securing the supporting members in the body and for locking the drill bit in the body and onto the lowermost supporting member.

1,387,448. SHIP'S-BOTTOM PAINT. SEIJI ASAKAWA, Tokyo-Fu, and KAICHI NOSAWA, Chiba-Ken, Japan. Filed Nov. 26, 1920. Serial No. 426,622. 4 Claims. (Cl. 134—39.)

1. A paint for submarine use including kwashi-pan as an ingredient thereof.

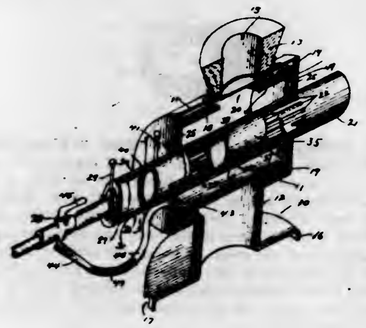
1,387,449. CLOTH-SPONGING MACHINE. LOUIS BAJETT, New York, N. Y. Filed Apr. 30, 1921. Serial No. 465,813. 10 Claims. (Cl. 26—7.)



3. In a cloth sponging apparatus, a rotatable steam cylinder, releasable means for driving the cylinder to wind thereon alternate layers of a sponging web and a cloth to be sponged, a rotatable drum carrying the windings of the sponging web; driving of the steam cylinder being effective to unwind the web drum, releasable provisions for driving the drum to rewind thereon the sponging web and unwind the same from the steam cylinder, the cylinder and drum being spaced to provide a short free span for the windable and rewindable sponging web

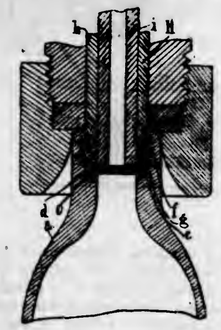
movable therebetween, supporting means for a reel of cloth to be sponged, said supporting means including elements for supporting the reel of cloth during the winding and rewinding operations, the supporting means being also spaced from the cylinder to provide a relatively short and free span for the cloth wound and rewound therebetween, and instrumentalities for alternatively tensioning the cylinder and drum, said instrumentalities providing a control for tensioning the free span of the sponging web.

1,387,450. GAS-BURNER. HENRY C. CALDWELL, Buffalo, N. Y. Filed July 17, 1920. Serial No. 396,905. 8 Claims. (Cl. 158—99.)



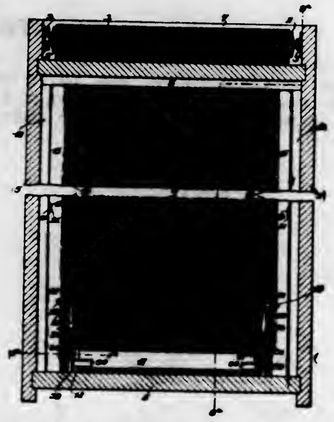
8. A gas burner characterized by having a jacket forming a secondary mixing chamber, a combustion chamber mounted on the jacket and in communication with the interior thereof, a mixing tube passing through the secondary mixing chamber and forming a primary mixing chamber, such tube being provided with fuel element outlets, means for projecting gas under pressure through an air space located between the tube and the gas outlets and thence into the tube, valve controlled means for regulating the quantity of gas introduced into the tube, means for regulating the size of the fuel element outlets and for controlling the admission of air to the air space, and means for supplying additional air to the fuel elements at the combustion zone.

1,387,451. CAPSULE OR CONTAINER FOR GASES OR LIQUIDS UNDER PRESSURE. ROBERT HUNTER CAMPBELL, Upper Edmonton, England. Filed Oct. 23, 1919. Serial No. 332,822. 5 Claims. (Cl. 220—3.)



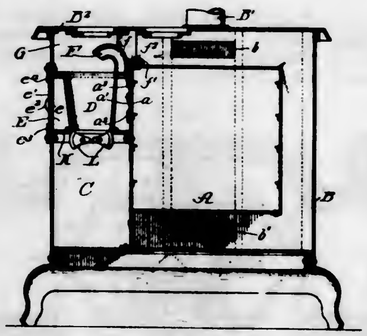
1. A capsule or container for gases or liquids under pressure including an internally threaded neck, a seating, sealing means co-acting with said seating and a plastic element expanded into said internally threaded neck to retain said sealing means on said seating.

1,387,452. ROLLING WINDOW-SCREEN. JOHN J. CHAPIN, Rochester, N. Y., assignor, by mesne assignments, to Fil-Bac Screen Corporation, Rochester, N. Y., a Corporation of New York. Filed Dec. 3, 1917, Serial No. 205,013. Renewed Jan. 11, 1921. Serial No. 436,613. 11 Claims. (Cl. 156—39.)



8. A rolling window screen fixture comprising oppositely disposed hollow side edge guides having a channel receiving one edge of the screen, and a rod pivoted within each guide and twisted to provide a spiral surface which acts gradually lengthwise upon the screen to clamp it within the guide, and means for turning the rod.

1,387,453. STOVE. HUGH A. COLE, Chicago, Ill., assignor to Cole Manufacturing Company, Chicago, Ill., a Corporation. Filed Jan. 5, 1920. Serial No. 349,515. 10 Claims. (Cl. 126—15.)

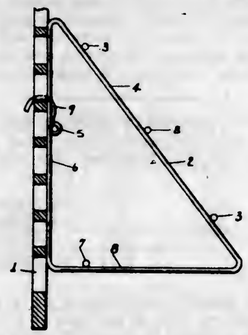


7. In a stove, the combination with the ash pit and combustion chamber, of an air chamber arranged between the ash pit and combustion chamber, a fire pot arranged within said air chamber, a valve for controlling the admission of air to said air chamber, a port at the top of said air chamber, and a hot blast pipe communicating with said port, extending over said fire pot and having a downturned discharge outlet for directing heated air downwardly into the upper central portion of said fire-pot.

1,387,454. FOOTREST FOR REGISTERS. WILLIAM H. COLEMAN, Jackson, Mich. Filed Mar. 28, 1921. Serial No. 456,425. 2 Claims. (Cl. 155—168.)

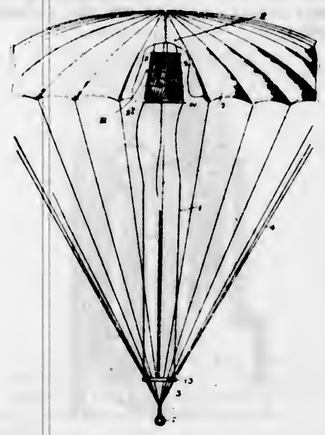
2. A foot rest for registers comprising triangular end members and front and rear cross bars secured thereto, said end members and cross bars being formed of wire

the end members being disposed with their front portions upwardly inclined when their rear portions are resting against the face of a register, and hooks loosely mounted



on the rear cross bar to be adjusted thereon and engageable with the register face whereby the foot rest is supported thereon.

1,387,455. PARACHUTE. FELIX J. COUGHLIN, Versailles, Ohio. Filed Apr. 30, 1919. Serial No. 293,858. 6 Claims. (Cl. 244—21.)



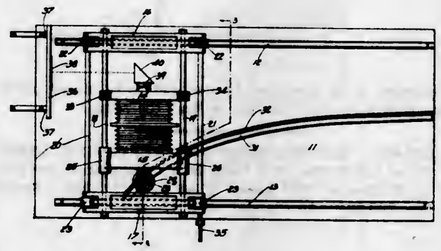
1. In a parachute, the combination with the sail having a vent and a load carrier, of readily frangible sail supporting cords, flexible connections between the middle part of the sail and the load carrier and an air tunnel collapsible in the direction of its length, and extended by the tautening of the flexible connections secured between the load ring and the top of the sail.

1,387,456. AUTOMOBILE-BUMPER. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed May 20, 1921. Serial No. 471,162. 10 Claims. (Cl. 293—55.)



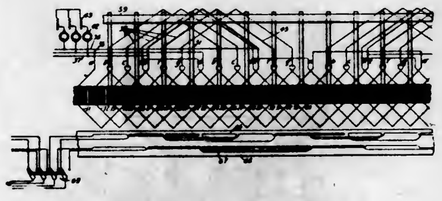
10. An automobile bumper, comprising a bar of flat spring metal curved rearwardly at two places and terminating in two arms adapted to support the bumper and bent at intervals on obtuse angular lines to provide vertically-inclined and parallel horizontal portions between its extremities.

1,387,457. AUTOMATIC FOCUSING DEVICE FOR CAMERAS. JEAN A. DE BOUZEK, Salt Lake City, Utah. Filed Apr. 26, 1918. Serial No. 230,984. 8 Claims. (Cl. 88—24.)



1. In an automatic focusing device for cameras, the combination with suitably supported rails, of a carriage mounted thereon and adapted to travel back and forth thereover; a camera, having a relatively fixed part and a relatively movable part mounted on the said carriage; and a suitably curved fixed track adapted to engage the said movable part, whereby the said camera will be kept constantly focused with reference to a fixed copy as the said camera is moved along the said rails toward or away from, the said copy.

1,387,458. WINDING STRUCTURE FOR MULTI-SPEED INDUCTION-MOTORS. HAROLD L. BARNHOLDT, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed May 2, 1917. Serial No. 165,843. 8 Claims. (Cl. 172—274.)

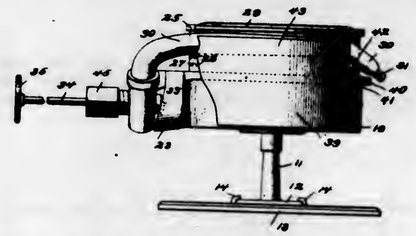


1. In an induction motor, a phase-winding embodying a plurality of current paths, each path including a plurality of pairs of pole-groups of mutually opposite polarity, the pole-pairs of one circuit being interspersed between the pole-pairs of another circuit, the pole-groups being so arranged that the north pole of one group is adjacent the south pole of the next adjacent group.

1,387,459. HYDROCARBON-GAS BURNER. JOHN R. BATES, Chicago, Ill. Filed Aug. 25, 1919. Serial No. 319,742. 3 Claims. (Cl. 158—71.)

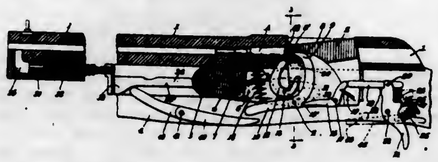
1. In an oil-gas burner, a base portion, a cylindrical burner plate mounted thereon, a curved generator disposed to be heated by the combustion at the burner plate

to generate gas, and a curved priming pan hinged to the base portion and adapted to be swung away from said



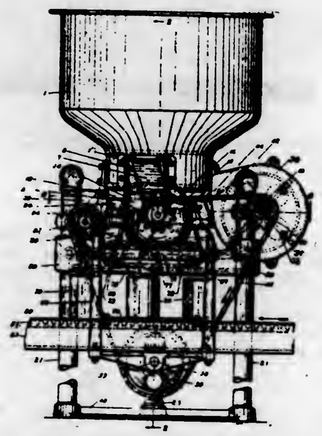
generator to be filled and ignited and to be moved under the generator when ignited to heat the same.

1,387,460. BLOCK-ACTION FOR REPEATING ARMS. NICOLAAS BEETS, New York, N. Y., assignor of one-half to William J. Wilkinson. Filed Dec. 11, 1918. Serial No. 266,201. 10 Claims. (Cl. 42—3.)



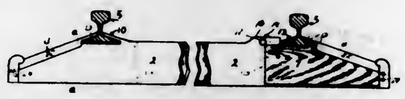
1. The combination of a barrel, of a block for closing one end thereof, means tending to support said block in position to form an obstruction to said end of the barrel without closing the same, and means controlling the movement of said block relatively to said barrel adapted to cause the block to be moved against the action of said first named means away from said end of the barrel sufficiently far to remove said obstruction and permit the free extraction of a shell.

1,387,461. CAN-CAPPING OR DISK-FEEDING MACHINE. CHARLES H. BIRCH, Chicago, Ill. Filed Mar. 14, 1916. Serial No. 84,039. 22 Claims. (Cl. 113—27.)



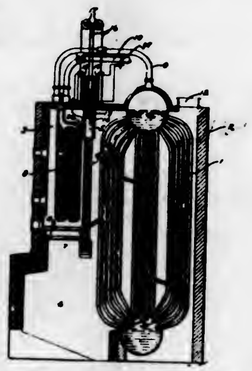
1. In a disk feeding machine of the kind described. a container adapted to receive a plurality of similar articles and having a discharge opening at its bottom and a receptacle arranged to receive said articles escaping through said opening, in combination with a valve for controlling said opening and means for controlling the operation of said valve by the amount of said articles in said receptacle, comprising a member operatively connected with the valve, means for positively actuating said member, and means in the receptacle for moving said member into operative relation with the said actuating means.

1,387,462. RAILWAY-METAL-TIE APPLIANCE. CHARLES BRADLEY, Denver, Colo. Filed Aug. 25, 1919. Serial No. 319,813. 4 Claims. (Cl. 238—70.)



1. A rail support, comprising a tie, a tongue on the tie to engage one side of the base of a rail, a slidable plate having a tongue to engage the other side of the rail base, guides for said slidable plate, said plate extending to the end of the tie, and vertically-disposed means on the end of the tie engaging the end of the plate to retain the plate with its tongue engaging said base.

1,387,463. SUPERHEAT-REGULATOR. BENJAMIN BROIDO, New York, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed May 2, 1918. Serial No. 232,149. 7 Claims. (Cl. 122—480.)

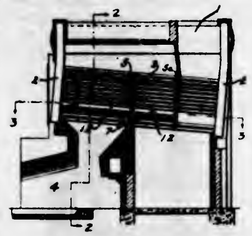


4. In apparatus of the class described the combination of a chamber, a superheater in said chamber, said chamber having an inlet and an outlet for heating gases, a damper controlling said outlet, operating means for said damper, means tending to cause said operating means to move the damper toward its closed position when the temperature of the gases leaving the chamber is above a predetermined point and to move it toward its open position when it is below a second predetermined point, and other means tending to cause said operating means to move the damper toward its closed position when the temperature of the steam leaving the superheater is above a predetermined point and to move it toward its open position when it is below a second predetermined point.

1,387,464. BOILER WITH SUPERHEATER. BENJAMIN BROIDO, New York, N. Y., assignor to The Superheater Company, New York, N. Y., a Corporation of Delaware. Filed July 27, 1918. Serial No. 247,028. 3 Claims. (Cl. 122—473.)

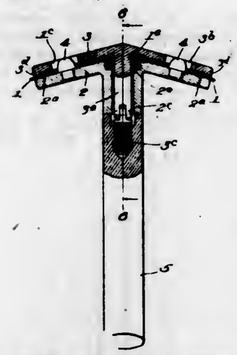
3. In a water tube boiler the combination of two spaced parallel rows of water tubes, a superheater with alined

elements extending at right angles to the water tubes into the space between the rows and in a row parallel to them, each element being of greater depth than width, a space being left between the row of superheater elements and one of the adjacent rows of water tubes, the space



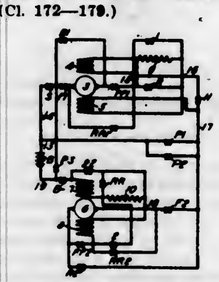
being greater than the width, but less than the depth of an element, and a setting comprising a wall adjacent to the water tubes, said wall having an opening alined with the space and with its front and rear sides at an oblique angle to the wall.

1,387,465. SAFETY-RAZOR. GEORGE BROWNING, Chicago, Ill., assignor to Lee Razor Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Continuation of application Serial No. 317,861, filed Aug. 15, 1919. This application filed Dec. 29, 1919. Serial No. 347,900. 7 Claims. (Cl. 30—12.)



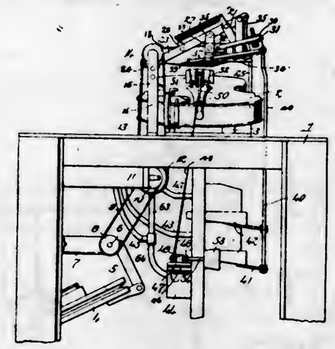
1. A safety razor comprising in combination with a holder, two blades each having two apertures, the holder having means for engaging said apertures positioned for positioning the blades with their cutting edges at an angle to each other.

1,387,466. SYSTEM OF CONTROL. ANDREW H. CANDEE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 30, 1918. Serial No. 260,281. 3 Claims. (Cl. 172—179.)



2. In a system of control, the combination with a dynamo-electric machine having an armature and a two-section field winding, of a resistor permanently connected intermediate said sections, and three switches respectively connected across the resistor alone and across the resistor together with the one or the other field-winding section.

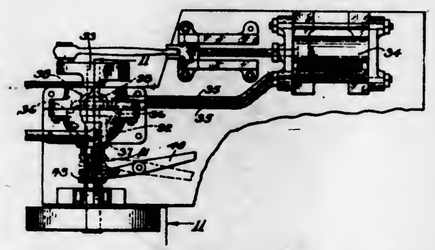
1,387,467. AUTOMATIC VIOLIN-PLAYER. ERICK VALDEMAR CARLSON, Chicago, Ill. Filed Mar. 6, 1917. Serial No. 152,681. 11 Claims. (Cl. 84—10.)



1. An automatic violin player comprising an instrument holding element, a constantly moving endless belt, one of the runs of the belt positioned to overlie the strings of a violin, a plurality of fingers overlying said run, a finger being associated with each string, and means for individually actuating the fingers to move the belt into contact with the strings.

7. An automatic violin player comprising an instrument holding element,. a lever having one end extended for engagement with all of the strings of a violin, a pneumatic including a bellows and a box, means connecting said bellows with said lever, means for admitting air to the box of the pneumatic, and additional means for introducing rapid intermittent charges of air into the box to cause a vibration of said bellows and lever.

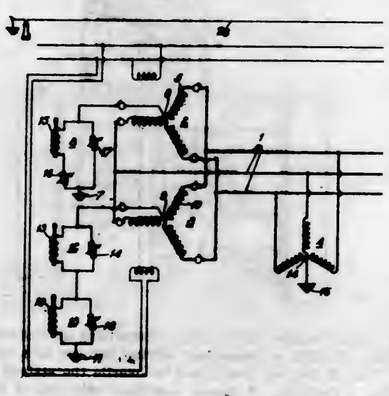
1,387,468. STEAM-ENGINE VALVE AND REVERSING MEANS THEREFOR. JAMES CHAMBLESS, Jasper, Ala., assignor of one-half to Albert Russell, Jasper, Ala. Filed Mar. 15, 1919. Serial No. 282,958. 1 Claim. (Cl. 121—179.)



In a steam engine, a cylinder, a steam chest therefor, an axle journaled in a wall of said steam chest and having an end projecting thereinto, a valve mounted upon said end and bearing against said wall, a steam supply port opening through said wall at each side of said axle and leading to the opposite ends of said cylinder, and a separate exhaust port arranged adjacent to each of the supply ports in said wall and having a common outlet, said valve comprising a chamber adapted during rotation of said valve to establish communication successively between each

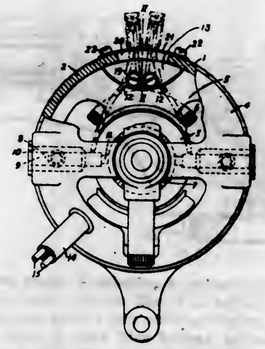
pair of supply and exhaust ports while cutting off said ports from communication with said steam chest, and a portion adapted to simultaneously close the other exhaust port.

1,387,469. MEANS FOR SUPPRESSING HARMONICS. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 13, 1917. Serial No. 148,425. 4 Claims. (Cl. 172—237.)



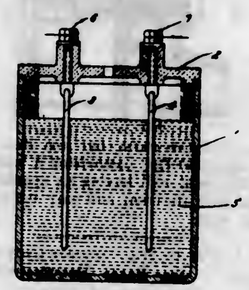
4. The combination with a polyphase network, of a plurality of polyphase translating devices adapted to be connected to said network, each of said devices having a neutral point, and impedance elements connecting said neutral points together, characterised by the fact that said impedance elements are selectively conductive for currents of a particular frequency while impeding currents of all other frequencies.

1,387,470. ARRANGEMENT OF CONNECTIONS FOR DYNAMO-ELECTRIC MACHINES. JOEL R. COOK, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 15, 1916. Serial No. 137,223. 3 Claims. (Cl. 172—36.)



1. In a dynamo-electric machine, the combination with a magnetizable core member provided with a recess therein and an inclosing casing provided with an opening adjacent said recess, of electric conductors normally located within said recess and having portions thereof removable through said opening for altering the circuit connections of said machine.

1,387,471. ELECTROLYTE. JOHN COULSON, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 19, 1917. Serial No. 149,530. 2 Claims. (Cl. 175—318.)



Electrolyte containing a normal ammonium tartrate

1. An electrolyte for electrolytic condensers, lightning arresters, rectifiers and the like comprising an aqueous solution containing approximately 1% of normal ammonium tartrate.

1,387,472. MOP-CLOTH. WILLIAM H. COX, Collegeville, Pa. Filed Sept. 10, 1920. Serial No. 409,439. 1 Claim. (Cl. 15—54.)

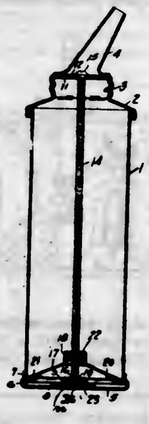


A mop in the form of an endless loop comprising a strip of fabric wound in superposed layers with the layers stitched together.

1,387,473. RECEPTACLE FOR CONTAINING AND DISCHARGING SEMISOLID AND PASTY SUBSTANCES. JAMES F. CRAVEN, Pittsburgh, Pa. Filed Aug. 28, 1916. Serial No. 117,360. 5 Claims. (Cl. 221—79.)

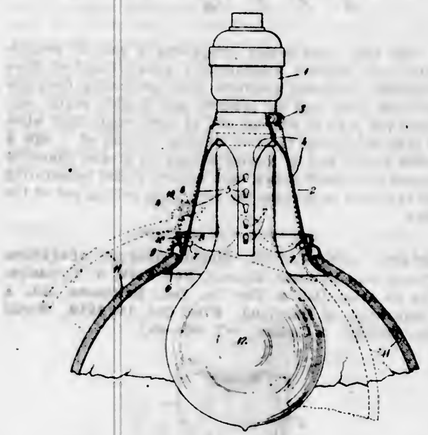
1. A container of the class described comprising a receptacle provided at one end with an apertured cap, a follower for exerting pressure on the substance in said receptacle, an axially disposed rod adapted to pass freely through the cap and threaded through the follower and

provided with a head seating on the outside of the cap for retaining said rod in fixed longitudinal but rotatable



position, and a rotatable base for the receptacle having a detachable threaded engagement with said rod.

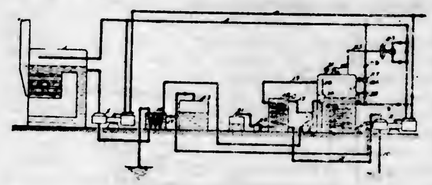
1,387,474. SHADE-HOLDER. EDWARD J. DAILEY, Jr., New York, N. Y., assignor to Holophane Glass Co. Inc., a Corporation of New Jersey. Filed Dec. 18, 1919. Serial No. 345,723. 6 Claims. (Cl. 240—115.)



1. A shade holder comprising: a socket retaining member having a plurality of dependent arms, a shade retaining member fitting over the arms and provided with means of retention by the dependent arms to permit of angular adjustment of the shade.

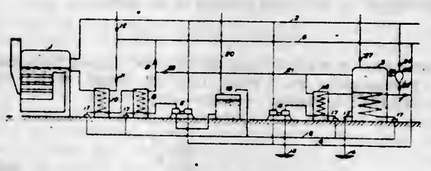
1,387,475. EVAPORATOR CONTROL. WILLIAM L. DE BAUFRE, Annapolis, Md. Filed Sept. 6, 1916. Serial No. 118,726. 10 Claims. (Cl. 203—5.)

2. In an evaporator control, an evaporator containing evaporating and condensing compartments, means of supplying the said evaporating compartment with solution to be evaporated, a safety valve on the said evaporating compartment, means for supplying a heating vapor of a definite maximum pressure to said condensing compartment and means for limiting the rate of supply of vapor to



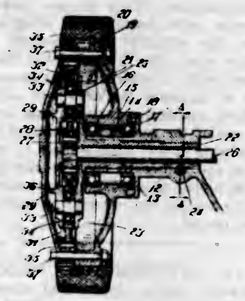
said condensing compartment to less than the capacity of said safety valve by an orifice of fixed and predetermined capacity through which the said vapor flows.

1,387,476. SYSTEM FOR EVAPORATING WATER. WILLIAM L. DE BAUFRE, Annapolis, Md. Filed Jan. 23, 1917. Serial No. 143,970. 1 Claim. (Cl. 203—5.)



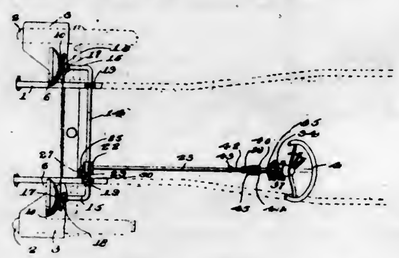
In a system for evaporating water, a boiler, two feed heaters in series, an evaporator, apparatus operated by steam from said boiler, an ejector for withdrawing vapor from said evaporator, means for heating the solution contained in said evaporator by the commingled steam and compressed vapor from the said ejector, means for heating the boiler feed water in the first of the said feed heaters by vapor from the said evaporator, and means for further heating the boiler feed water in the second of the said feed heaters by exhaust steam from the said apparatus.

1,387,477. DRIVING MECHANISM FOR MOTOR-VEHICLES. LEONEL A. DE MORE, Oak Park, Ill., assignor to Mercury Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed June 5, 1920. Serial No. 386,724. 6 Claims. (Cl. 74—7.)



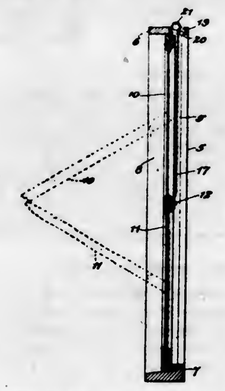
1. The combination of a frame comprising a sleeve, a supporting wheel revolubly mounted on said sleeve, a second sleeve extending into the outer end of said first-named sleeve and readily removable outwardly therefrom, means for holding said second sleeve at all times against rotation, and means carried by said second sleeve and removable therewith for transmitting power to said supporting wheel.

1,387,478. DIRIGIBLE HEADLIGHT. HEARD D. DENSON, Miami, Fla., assignor to Milburn C. Weaver, Miami, Fla. Filed Aug. 27, 1919. Serial No. 320,115. 7 Claims. (Cl. 240—61.)



1. The combination in a dirigible light with a fixed bearing head, of a movable lamp fashioned with rigid outer and inner shells forming a casing and reflector, to co-act with said head, and means for imparting universal movement to said lamp relative to the head.

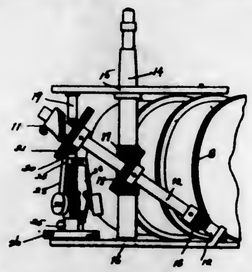
1,387,479. WINDOW CONSTRUCTION. FRANK DUTCHER, Philadelphia, Pa. Filed July 22, 1920. Serial No. 398,193. 5 Claims. (Cl. 20—42.)



1. The combination with a window frame, of a pair of sashes hingedly connected to each other at one of their ends, means for slidably and pivotally mounting the sashes at their other ends in the window frame for relative vertical movement, counterbalancing means common to both sashes to maintain the sashes in adjusted position, and a yieldable connection between said counterbalancing means and one of the sashes to permit of an independent movement of said means with respect to said sash in the movement of the sashes to open or closed position, said connection including an adjustable part movable relatively to the sash to control the effective operation of said counterbalancing means.

1,387,480. SPRING-MOTOR. WILLIAM R. EVERETT, Benton Harbor, Mich., assignor, by mesne assignments, to F. G. Hogland, Rockford, Ill. Filed June 27, 1918. Serial No. 242,160. 5 Claims. (Cl. 185—37.)

1. The combination with a frame of a winding shaft, a plurality of coil springs mounted thereon, a spur gear mounted on said shaft and suitably connected to said springs, a vertical turntable shaft, an intermediate shaft suitably journaled in said frame, and inclined from the axis of the turntable shaft and also diverging from the axis of the spring shaft, a spiral gear on said intermediate shaft driven by said spur gear, a vertical turntable shaft, a spiral pinion on the turntable shaft, a spiral gear on the intermediate shaft which meshes therewith, a vertical governor shaft, a spiral pinion thereon, a spiral gear on



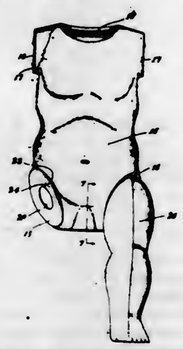
said intermediate shaft which meshes therewith, a ball governor on said governor shaft, a disk splined thereon, and a brake adapted to engage said disk at a predetermined point.

1,387,481. ROPE-SOCKET. CHARLES N. FINTON, Lykens, Pa. Filed Sept. 17, 1920. Serial No. 410,902. 1 Claim. (Cl. 24—123.)



A one piece rope socket comprising a pair of complemental and opposed substantially semi-cylindrical jaws of uniform thickness, coniform teeth projecting inwardly from said jaws, and an integral and flexible shank connecting the jaws at one end and of such length that when the jaws are forced together to grip the end of a rope a tapered socket will be formed having its greater diameter adjacent the curved shank, such tapered socket coöperating with the teeth to prevent the rope from pulling out of the socket.

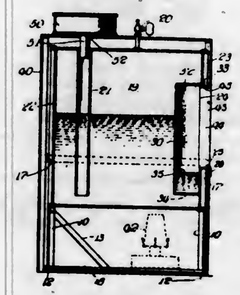
1,387,482. AUTOMATON. MORRIS GERBERG, ALEXANDER HIRSH, and MITCHEL MORGAN, New York, N. Y., assignors to Atlas Doll & Toy Co., Inc., Baltimore, Md., a Corporation of Maryland. Filed Oct. 14, 1919. Serial No. 330,582. 3 Claims. (Cl. 46—40.)



1. In a doll of the class described, the combination with a hollow metallic body and pairs of upper and lower

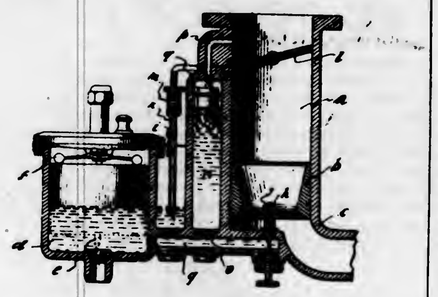
limbs, of pairs of seats formed on opposite sides of said body, said seats containing central openings, coöperative seats formed with each of said limbs, spring plate washers secured to the seats of said limbs, said washers being slit tangentially; and means formed in the seats of said body receptive of said washers whereby said limbs are pivotally engaged and prevented from separating.

1,387,483. STOCK-WATERER. RAYMOND B. GLIDDEN, Kewanee, Ill., assignor to Kewanee Implement Company, Kewanee, Ill., a Corporation of Illinois. Filed Apr. 19, 1919. Serial No. 291,304. 5 Claims. (Cl. 119—73.)



1. In a stock watering-appliance of the character described, the combination of a cylindrical water-supply tank, means to support said tank with its axis substantially horizontal, a head of said tank having an opening, and a trough inside of said tank and in communication with the water-supply thereof to which trough the animal has access through said opening, said trough having a substantially semi-circular apertured side-wall, the edge portions of which extend through said head opening and are bent over to form flanges outside of and secured to the head, a bottom wall above the bottom of the tank, and a top wall having an edge portion extended through said head opening and bent over to form a flange outside of and secured to said head, substantially as described.

1,387,484. CARBURETER. GEORGE N. GOODRICH, Detroit, Mich. Filed Nov. 28, 1919. Serial No. 341,027. 5 Claims. (Cl. 261—41.)

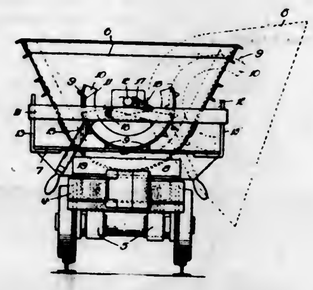


1. In carbureting apparatus, the combination with an intake line, of a throttle valve therein, a fuel nozzle, an accelerating well closed to the atmosphere and having a control for permitting the engine suction at closed throttle to hold the fuel level therein at substantially a given point above the float chamber level, and a passage-way leading from the accelerating well to the intake line for discharging the oil from the accelerating well thereinto when the throttle is suddenly opened.

2. In a carbureting apparatus, the combination of an intake passage, a throttle valve therein, a fuel nozzle on the side of the throttle valve opposite the engine, an accelerator well having the capacity of holding a higher column of oil than the float chamber, a passage-way leading from the accelerating well into the intake between the throttle and the engine whereby when the throttle is closed the accelerating well fills up with oil, means for automatically cutting off the suction when the accelerating well is filled, and a passage-way leading from the accelerating well into the intake line for allowing the discharge of the excessive oil into the intake when the throttle is suddenly opened and the suction influence on the oil in the accelerating well is weakened.

5. In a carbureting apparatus, the combination of an intake passage, a fuel nozzle leading thereinto, a throttle valve between the fuel nozzle and the engine, a float chamber supplying the fuel nozzle, an accelerating well having the capacity of holding a higher level of fuel oil than the float chamber, a passage-way leading from the accelerating well into the intake between the throttle and the engine whereby when the throttle is closed the suction of the engine will fill up the accelerating well to a higher level than the normal fuel level, a valve for automatically cutting off the suction when the well has been filled to the desired level, and a passage-way for furnishing to the fuel nozzle the excess supply of fuel oil from the accelerating well when the throttle is opened and the depression at the passage-way leading from the accelerating well into the intake line is insufficient to hold the higher level in the accelerating well.

1,387,485. SIDE-DUMP CAR. ALEXANDER M. GOW, Duluth, Minn. Filed Apr. 6, 1921. Serial No. 458,929. 15 Claims. (Cl. 105—264.)

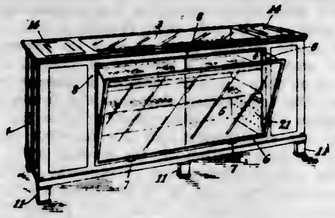


1. In a car of the type described, a car frame, a car body adapted to rock to either side of said frame, and duplicate dumping and locking mechanism on opposite ends of the car, the mechanism on one end being adapted to lock the body against movement in one direction and the mechanism on the other end being adapted to lock the body against movement in the opposite direction, each mechanism being adapted to be actuated by a single lever to both unlock and dump the car.

1,387,486. REFRIGERATOR DISPLAY-CASE. LEONARD G. GRAY, Decatur, Ill., assignor to Walrus Manufacturing Company, Decatur, Ill., a Corporation of Illinois. Filed May 1, 1918. Serial No. 231,807. 3 Claims. (Cl. 211—25.)

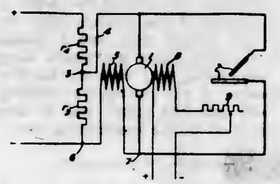
1. In a device of the character described, the combination with a refrigerator display case, having a glass front and top, and a plurality of ice containers therein,

of a plurality of food containers located beneath said ice containers, with a perforated shield located adjacent



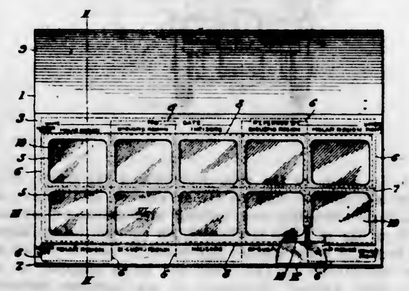
the said food containers and which shields the contents therein from observation through said glass front.

1,387,487. ELECTRIC-ARC-WELDING SYSTEM. KLAUS L. HANSEN, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,437. 9 Claims. (Cl. 219—15.)



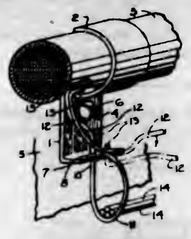
1. In an exciting system for generators, the combination with two exciting field windings, of means for exciting one of the windings in the same direction at all times, and means for exciting the remaining winding in one direction at certain times, and in the opposite direction at other times.

1,387,488. FILE-RECORD AND MOUNT FOR X-RAY NEGATIVES. OLIVER A. HELMER, New York, N. Y. Filed Dec. 14, 1920. Serial No. 430,592. 3 Claims. (Cl. 40—159.)



1. A mount for X-ray negative films, comprising an outer body member and an inner body member of opaque material and formed with registering openings, a sheet of flexible material between said body members and bridging the said openings said flexible material permitting the passage of light rays therethrough, and lines of stitches connecting the body members and the flexible sheet together and forming a pocket around the openings, the inner body member being slit to form an opening into said pocket and to permit the X-ray negative film to be placed in the pocket and against the inner side of the flexible sheet.

1,387,489. CONDUIT OR CABLE CLAMP AND BRIDLE-RING. WILLIAM J. HESS, New York, N. Y. Filed Oct. 25, 1920. Serial No. 419,478. 4 Claims. (Cl. 248—36.)



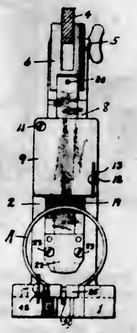
1. The combination of a conduit or cable clamp having a hook portion to support a conduit or cable and a base to lie against a wall or other suitable support, the base being provided with means to coöperate with a bridle ring, and a bridle ring coöperating with said means, said bridle ring having one or more hooks adapted to hook into the dead space on the hook portion of the clamp.

1,387,490. HORN-MUTE. GUY B. HUMES, Chicago, Ill. Filed Aug. 16, 1920. Serial No. 403,636. 6 Claims. (Cl. 84—400.)



1. An article of the class described, comprising a hollow conical shaped member; a closure member mounted in one end of said conical shaped member orifices in said closure member; and means mounted thereon whereby the volume of the tone of the horn is varied, substantially as described.

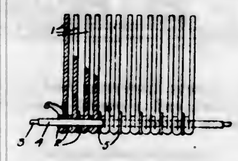
1,387,491. RIM-CLAMP-ATTACHING DEVICE. HARPER M. HUPMAN, Detroit, Mich., assignor to Michigan Optical Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 21, 1921. Serial No. 454,250. 6 Claims. (Cl. 81—15.)



1. In combination, a base, a die mounted thereon having a groove to receive a rim for an eye glass lens, a

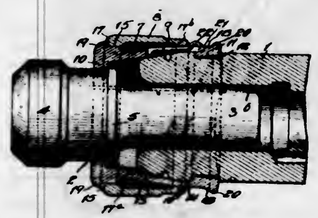
vertically movable head, a pair of beveled plates at the lower end of the head adapted to engage the clamps of an attachment for the rim, and bend the clamps toward each other, and a plate mounted on the head and slidable between the plates of said pair to bend the inner edges of the clamps to constitute a groove.

1,387,492. RESISTER. HARVEY H. JOHNSTON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 8, 1919. Serial No. 270,144. 8 Claims. (Cl. 219—69.)



1. An electrical resister comprising a grid having a main body portion and having an end portion thereof bent back upon itself to constitute a spacing member.

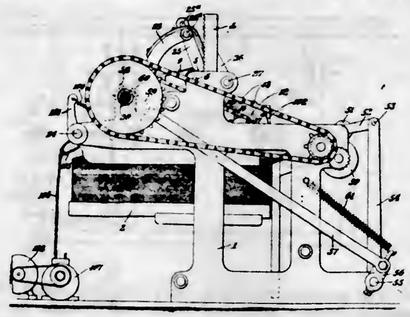
1,387,493. PERCUSSION-TOOL. WILLIAM H. KELLER and ALBERT SCHINKEZ, Grand Haven, Mich., assignors to Keller Pneumatic Tool Company, Grand Haven, Mich., a Corporation of Michigan. Filed June 17, 1918. Serial No. 240,429. 2 Claims. (Cl. 121—32.)



1. In a percussion tool, the combination with a barrel having a forward tapered end and an annular peripheral groove rearwardly of said tapered end, a tool mounted in said barrel and having an annular flange, a plurality of members fulcrumed on the barrel at the forward edge of said groove and each having at one end a portion projecting into the path of said tool flange and at its other end a dog engaging in said annular groove, a ring for retaining said members upon the forward end of the barrel having annular bosses at its opposite ends arranged to engage respectively with the opposite ends of said members, said ring being of a length less than the length of the members so as to be movable longitudinally relative thereto and said members having recesses in their outer faces between their opposite ends adapted to receive the boss on the forward end of the ring when the ring is moved rearwardly thereof whereby to permit the forward ends of the members to be moved radially outward by the boss at the rear end of the ring engaging with the rear ends of said members.

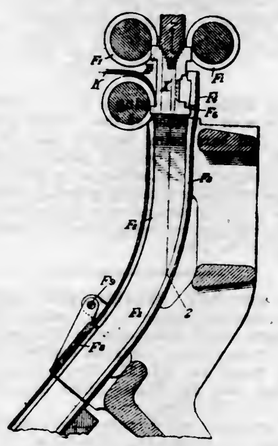
1,387,494. SHEET-FEEDING MACHINE. ROBERT E. KEMPER, Rensselaer, N. Y. Filed Nov. 18, 1920. Serial No. 424,851. 15 Claims. (Cl. 271—38.)

4. In a machine for feeding sheets and like articles, the combination with a support for the sheets, sheet delivery means, and a comber for moving the topmost sheet into position to be engaged by the sheet delivery means, of means for moving the comber into and out of operative relation with the topmost sheet, a controlling mechanism for the comber having a sheet engaging part, for engaging the sheet to be fed adjacent to its rear edge, operative connections between the said part and the comber for insuring the movement of the comber to inoperative po-



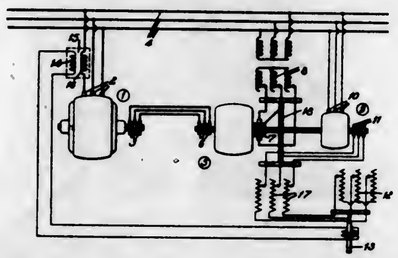
sition, when and as the said sheet engaging part passes off of the rear edge of the topmost sheet, and means operated in timed relation with the sheet delivery means, and normally brought into operation, after said sheet engaging part has passed off of the rear edge of the topmost sheet, for depressing said part firmly upon the lower sheets.

1,387,495. TYPOGRAPHICAL DISTRIBUTING-MACHINE. DAVID S. KENNEDY, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a Corporation of New York. Original application filed Nov. 30, 1917, Serial No. 204,534. Divided and this application filed Mar. 29, 1919. Serial No. 286,220. 5 Claims. (Cl. 199—33.)



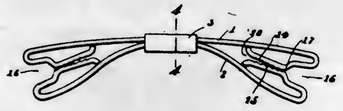
1. In a typographical machine comprising matrices formed with projecting ears at their upper and lower ends, the combination with a channeled magazine to contain the matrices, a distributer, and an intermediate magazine entrance separate and distinct from the magazine and formed with sets of opposing grooves to guide the matrices by their projecting ears from the distributer to the magazine, of supplemental guiding means forming part of said magazine entrance and arranged at the receiving end thereof to insure the engagement of the upper ears of the matrices in the entrance grooves.

1,387,496. SPEED CONTROL FOR INDUCTION-MOTORS. BENJAMIN G. LAMME, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 21, 1916. Serial No. 126,904. 4 Claims. (Cl. 172—274.)



1. The combination with a main induction motor, of a frequency-changer operatively connected thereto for cooperating in the speed regulation thereof, an auxiliary driving motor of the induction type mechanically coupled to said frequency changer, and means for so regulating the speed of said auxiliary motor in accordance with the load of said main motor as to reproduce the speed changes in said main motor that would be provided by resistance slip under like load conditions.

1,387,497. COLLAR-HOLDER. FRANK J. LE CLAIR, Attleboro, Mass., assignor to Freeman-Daughaday Company, Chartley, Mass., a Corporation of Massachusetts. Filed May 17, 1921. Serial No. 470,358. 5 Claims. (Cl. 24—81.)

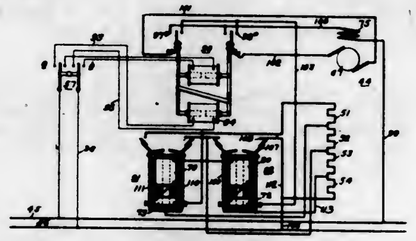


1. A collar holder comprising a pair of oppositely disposed bars secured together at their central portions, one at least of said bars being resilient, each of said bars having each of its end portions folded inwardly upon itself and constructed and arranged to provide an elongated and substantially straight gripping surface for cooperation with the corresponding surface of the other bar, said coöperating surfaces being normally disposed to diverge one from the other.

1,387,498. CONTROL SYSTEM AND APPARATUS. HARRY A. LEWIS, Norristown, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Original application filed May 22, 1911, Serial No. 628,733. Divided and this application filed May 23, 1919. Serial No. 299,251. 24 Claims. (Cl. 172—288.)

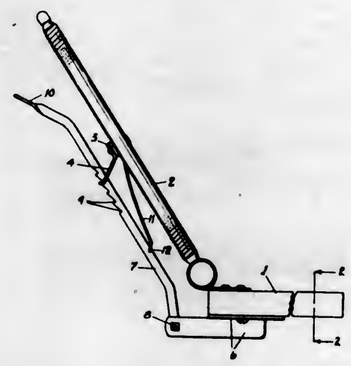
19. In a system of motor control, the combination with a motor and an accelerating resistance, of a magnet switch for governing the resistance having a stationary magnetizable member, stationary switch contact members, movable magnetizable members, contact members secured thereto and a current coil tending to actuate the movable members and close the switches, and a current coil operating in the same direction electrically but opposing the action of the movable members when the motor current exceeds a predetermined amount.

20. In a system of motor control, the combination with a motor having an armature and an accelerating resistor in circuit therewith, and a source of current for said motor, of a magnet switch for governing said resistor having a coil in series with said armature, means whereby the leakage flux of said series coil maintains said switch



open when the current traversing said motor exceeds a predetermined value, and a second series coil for maintaining said switch closed.

1,387,499. CARRIAGE ADJUSTABLE BACK. CHARLES A. LINDBERG, Sturgis, Mich., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Filed Apr. 16, 1921. Serial No. 461,817. 1 Claim. (Cl. 155—162.)

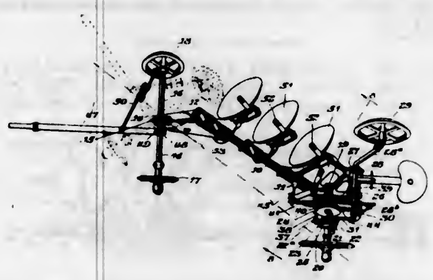


In a structure of the class described, the combination of a seat, a back pivotally mounted on said seat, a rearwardly projecting slotted arm on said back, a bracket mounted on the under side of said seat projecting rearwardly therefrom, a back supporting arm pivotally mounted on said bracket and projecting upwardly at the rear of the said back and through said slotted arm thereon, said supporting arm being provided with a rearwardly directed grip portion at its upper end, and with a series of upwardly facing tooth-like notches on its rear edge engaging said arm on said back, and a blade spring mounted on said back and notched at its lower end to engage said supporting arm whereby said notches thereof are held in engagement with said arm on said back.

1,387,500. POWER-LIFT DISK PLOW. ALEXUS C. LINDGREN, Hamilton, Ontario, Canada, assignor, by mesne assignments, to Fred Gerlach and Arnold B. Keller, trustees, Chicago, Ill. Filed Oct. 28, 1918. Serial No. 259,959. 18 Claims. (Cl. 97—54.)

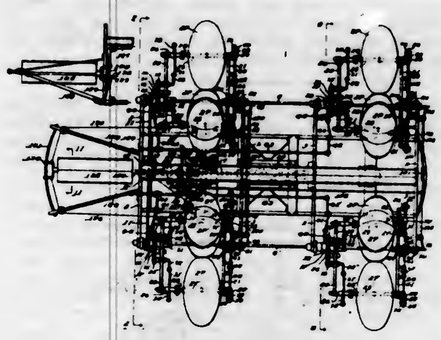
1. In a power-lift plow, a front axle, a beam having a laterally offset portion which is swiveled to the axle, a plow carried on the opposite side of the beam, wheeled axles extending oppositely from the rear of the beam, the one on the plow side being vertically adjustable, and

means for moving the plow to and from working position by adjusting said axle to rock the beam around a longi-



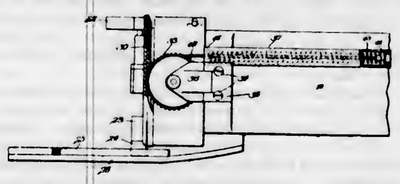
tudinal axis passing through said swivel and the other wheel.

1,387,501. FLYING-MACHINE. GEORGE H. LOCUSON, Philadelphia, Pa. Filed Aug. 30, 1917. Serial No. 188,894. 14 Claims. (Cl. 244—20.)



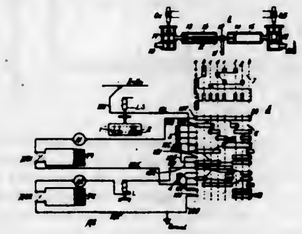
1. In a flying machine, the combination with a main framework, a plurality of sets of rotatable wing supporting units carried by said frame, concave wings located on said supporting units and manually controlled automatically operating means to feather said wings during the non-working portion of their path of revolution without reversing the position of the individual wings with respect to their respective axes of rotation, the concave sides of the wings facing downwardly during the working portion of their path of revolution.

1,387,502. SEMI-AUTOMATIC BREECH MECHANISM FOR GUNS. JOHN LUND, Bethlehem, Pa., assignor to Bethlehem Steel Company, South Bethlehem, Pa., a Corporation of Pennsylvania. Filed May 3, 1916. Serial No. 95,124. 17 Claims. (Cl. 89—4.)



1. A semi-automatic breech mechanism for guns comprising a breech block mounted for rotation about an axis parallel to and offset from the axis of the gun barrel and moving with the barrel at all times, means for rotating said block to open the same operated by and during the recoil of the gun, a spring connected to said breech block and tending to close the same, and a releasable lock for holding the block in open position.

1,387,503. SYSTEM OF CONTROL. PAUL L. MARDIS, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 17, 1918. Serial No. 258,539. 19 Claims. (Cl. 172—179.)



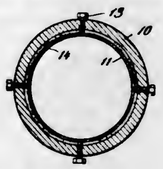
1. In a system of control, the combination with a dynamo-electric machine and a plurality of operating circuits therefor, of single means having one part connected for effecting a manual step-by-step operation of the machine and another part connected for automatically effecting a similar normal operation.

1,387,504. RAIL-JOINT FASTENER. JOHN MÉSZÁROS, Glenalum, W. Va. Filed June 11, 1921. Serial No. 476,684. 4 Claims. (Cl. 238—260.)



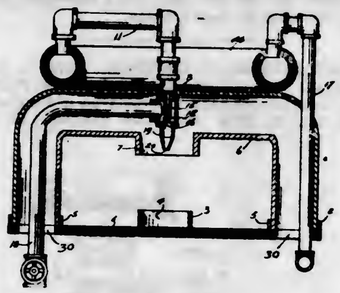
1. A rail fastening device comprising a pair of members adapted to engage the rail ends on opposite sides thereof, bolts passing through one of said members and through the rails, and means confined within the other member for releasably holding said bolts, said means including spring pressed elements located on opposite sides of the bolts.

1,387,505. FURNACE-TUBE. FLOYD J. METZGER, New York, N. Y., assignor to Air Reduction Company, Inc., a Corporation of New York. Filed Feb. 6, 1920. Serial No. 356,734. 8 Claims. (Cl. 23—13.)



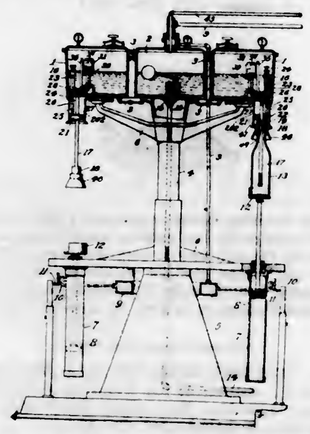
1. A furnace tube adapted for use in the fixation of nitrogen by heating mixtures of alkali metal compounds and carbon in the presence of nitrogen, which comprises, an outer shell of oxidation resistant material and a relatively thin inner nonporous shell of material which is not affected by said alkali metal compound.

1,387,506. GAS-GENERATING OIL-BURNER. EDWIN L. MILLER, Kansas City, Mo. Filed Oct. 11, 1919. Serial No. 330,092. 1 Claim. (Cl. 158—53.)



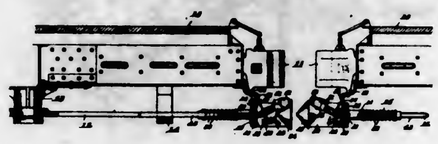
In a gas generating oil burner, the combination of a base plate, an inverted U-shaped air duct mounted vertically on said plate, the arch in said pipe being provided centrally on its lower side with a tubular discharge opening, a mixing chamber arranged in the arch of said duct, a steam generator connected with said mixing chamber and adapted for venting therein a diminutive jet of steam, a pipe arranged in said air duct and adapted for the delivery of oil and gas therefrom to said mixing chamber, and a nozzle connected with said mixing chamber and adapted for venting the contents of the chamber into the discharge opening of said air duct.

1,387,507. BOTTLE-FILLING APPARATUS. FRED W. MÜLLER, Hoboken, N. J. Filed Mar. 3, 1921. Serial No. 449,445. 9 Claims. (Cl. 226—111.)



1. In a bottle filling apparatus comprising a tank adapted to contain bodies of gas and liquid under pressure, a passageway extending from a point in the tank above the normal liquid level therein to the exterior thereof, a passageway extending from a point in the tank below the normal liquid level therein to the exterior thereof, with the outer ends of which passagewnys the mouth of a bottle may be put in communication, and apparatus for raising a bottle to establish such communication or lowering it to destroy such communication, the combination with said elements above recited, of a valve mechanism adapted to control the flow of fluid through the first above mentioned passageway, a valve mechanism adapted to control the flow of fluid through the second above mentioned passageway, and means automatically operated by a rising bottle during the period of establishing such communication to permit the opening of both said valves only when the fluid pressure in the passageways to the bottle equals that in the tank and to permit the automatic closing of both said valves whenever the fluid pressure in said passageways is less than that in said tank.

1,387,508. FLUID-PIPE COUPLING FOR RAILWAY-CARS. AUGUST E. NESCHER, Chicago, Ill. Filed Oct. 23, 1917. Serial No. 198,030. 1 Claim. (Cl. 285—58.)



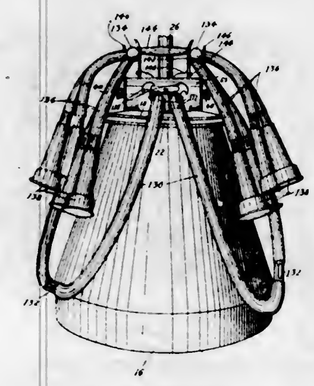
A coupling of the class described for railway cars comprising a pair of coöperating oscillatory coupling members adapted, when the cars are brought together, to engage with each other, said members being mounted for slidable movement rearwardly and forwardly of said car; means mounted on said car for moving said member forwardly thereof; a stop mounted on said member; means mounted on the car to which said member is attached for engaging said stop upon rearward movement thereof for rocking said member downwardly; means mounted on said car for engaging said stop upon the forward movement thereof for rocking said member upwardly, substantially as described.

1,387,509. LIQUID RHEOSTAT. STANLEY G. NOTTAGE, Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1919. Serial No. 344,588. 8 Claims. (Cl. 219—57.)

1. A polyphase liquid rheostat comprising a plurality of sets of plates, said sets corresponding to different motors, the various phase-plates of said sets being progressively disposed in alternation.

1,387,510. MILKING APPARATUS. EDWARD J. O'LEARY, Minneapolis, Minn., assignor of one-half to Frank A. Thurston and one-half to Henry Junge, St. Paul, Minn. Filed May 31, 1919. Serial No. 300,917. 4 Claims. (Cl. 31—99.)

1. A milking appaartus comprising a milk receptacle, teat cups, adapted to be connected with said receptacle, a cylinder attached to the cover of said receptacle, a piston having its two ends fitting said cylinder and having a reduced portion between said ends, means for constantly maintaining a vacuum in said receptacle, a passageway connnecting said receptacle and the reduced portion of said piston at all positions of the latter, means for alternately establishing communication between the ends of the cylinder and said reduced portion of the piston whereby said piston is reciprocated, and means operated by said piston for alternately creating and relieving a vacuum within said teat cups.

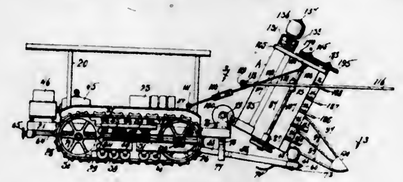


2. A milking apparatus comprising a milk receptacle, teat cups adapted to be connected with said receptacle, a cylinder attached to the cover of said receptacle, a piston having its two ends fitting said cylinder and having a reduced portion between said ends, a tube closed except for three ports and being slidably mounted in said piston, one of said ports being always in communication with said reduced portion of the piston and the other two ports being in communication with one or the other of the ends of said cylinder according to the position of said tube in said piston, means for constantly maintaining a vacuum in said receptacle, a passageway connecting said receptacle and the reduced portion of said piston at all positions of the latter, means for shifting said tube from one position in the piston to the other position when the piston reaches the end of its stroke whereby said piston is reversed, and means operated by said piston for alternately creating and relieving a vacuum within said teat cups.

3. A milking apparatus comprising a milk receptacle, teat cups adapted to be connected with said receptacle, a cylinder attached to the cover of said receptacle, a piston having its two ends fitting said cylinder and having a reduced portion between said ends, a tube closed except for three ports and being slidably mounted in said piston, one of said ports being always in communication with said reduced portion of the piston and the other two ports being in communication with one or the other of the ends of said cylinder according to the position of said tube in said piston, means for constantly maintaining a vacuum in said receptacle, a passageway connecting said receptacle and the reduced portion of said piston at all positions of the latter, a rod slidably mounted in said piston, arms secured to the ends of said rod, said arms being adapted to engage said tube to shift it from one position in the piston to the other position when the piston reaches the end of its stroke whereby said piston is reversed, and means operated by said piston for alternately creating and relieving a vacuum within said teat cups.

4. A milking apparatus comprising a milk receptacle, teat cups adapted to be connected with said receptacle, a cylinder attached to the cover of said receptacle, a piston in said cylinder, means for reciprocating said piston, a valve casing attached to said cover, a valve member in said casing, an arm connected to said valve member and adapted to be oscillated by said piston to rock said valve member, means whereby a vacuum will be produced in said teat cups when said valve member is in one position, and means whereby the vacuum will be relieved when said valve member is in another position.

1,387,511. CANE-CUTTING MACHINE. GEORGE G. POWELL, New York, N. Y., assignor to Antoinette M. Powell, New York, N. Y. Filed Dec. 15, 1919. Serial No. 344,808. 17 Claims. (Cl. 56—17.)



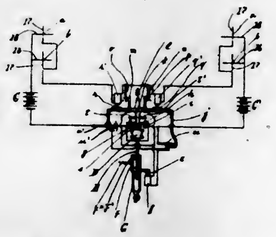
6. In a machine of the character described the combination of a platform, means to move the platform, a cutter housing hinged to the platform, rotating cutters in the housing, rotating feeder arms coacting with the cutters, a ground cutter support adjustably connected to the platform, a pair of sleeves hinged to the support, an arm extending from each sleeve, an electric motor with its armature shaft journaled in each arm and a ground cutter turned by each motor.

1,387,512. SAFETY-PIN. VOJTECH PUC, Prague-Vinohrady, Bohemia. Filed Aug. 6, 1919. Serial No. 315,619. 1 Claim. (Cl. 24—161.)



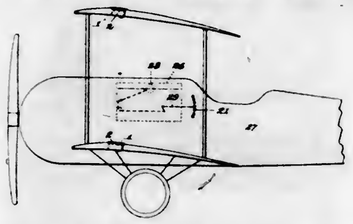
A safety pin having a pointed portion, a fixed portion, an uninterrupted looped outer end, and a guard to which one end of the fixed portion is attached and which is engaged by the pointed portion of the pin, said fixed portion being formed with a coil which lies wholly to one side of the loop.

1,387,513. CONTROL FOR AEROPLANES. WILLIAM S. RABE, St. Paul, Minn. Filed July 29, 1920. Serial No. 399,760. 3 Claims. (Cl. 244—1.)



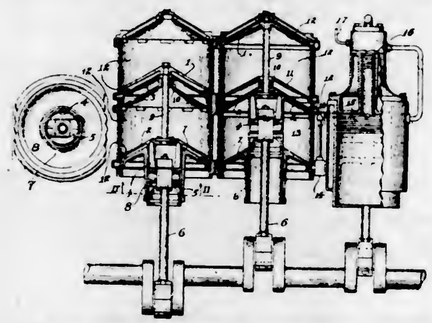
3. A device for controlling steering apparatus of a flying aeroplane, by a wireless telephony system such as the Poulson and the like, the latter having a diaphragm transmitter at the land station and a diaphragm receiver on the aeroplane, a motor on the aeroplane operatively connected with steering mechanism of the latter to change the course thereof when the motor is actuated, a normally open electric circuit connected with said motor to actuate it when said circuit is closed, and a vibratory circuit closing device connected in said circuit and capable of adjustment in syntony with both of said diaphragms to vibrate sympathetically to close said circuit when said diaphragms are active.

1,387,514. LIFT-INDICATOR FOR FLYING-MACHINES. ANITA S. REYNOLDS, Greenwich, Conn. Filed Mar. 14, 1917. Serial No. 154,853. 4 Claims. (Cl. 177—351.)



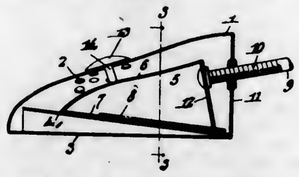
3. A device of the character described comprising an aerofoil, a diaphragm in the top camber an axially alined diaphragm in the bottom camber, said diaphragms being connected together at their centers, a lever engaging the connection, and means actuated by the lever for indicating the air reactions above and below the aerofoil.

1,387,515. ENGINE AIR-COMPRESSOR. MAX ROTTER, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 12, 1917. Serial No. 190,886. 2 Claims. (Cl. 230—32.)



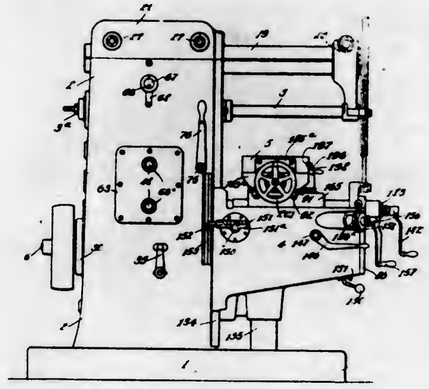
1. In marine air-compressing apparatus, the combination of adjacent scavenger pumps, each having tandem-arranged pistons, the lower piston of each pump having a trunk and the lower cylinder head of each pump having a long, air-cooled bearing for said trunk, of circular section, extending freely in the direction of and around the connecting rod of said piston.

1,387,516. SHOE-STRETCHER. JOHN A. SCHULZ, Baltimore, Md. Filed Oct. 20, 1920. Serial No. 418,232. 4 Claims. (Cl. 12—128.5.)



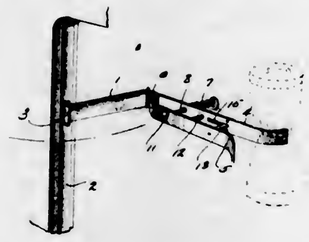
1. A shoe stretcher consisting of a hollow last having holes formed in the body thereof for the reception of a button shank, a wedge member movably mounted within the last and having a tapered convex upper surface conforming to the contour of the outer surface of the last whereby the button shank may be engaged wherever located on the body of the last and means for moving the wedge member lengthwise of the last.

1,387,517. MACHINE-TOOL. FRANK S. SHIELDS and JOHN A. CAMM, Cleveland, Ohio, assignors, by mesne assignments, to The Clark & Mesker Milling Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 14, 1917. Serial No. 168,571. 35 Claims. (Cl. 90—18.)



1. In a milling machine, the combination of a vertically disposed hollow column and a knee vertically adjustable thereon, said knee being formed of a hollow casing and containing therein variable power transmission devices for adjusting said knee.

1,387,518. MAIL-BAG CATCHER. WILLIAM R. SHULTZ, Camp Lee, Va. Filed Feb. 1, 1919. Serial No. 274,535. 1 Claim. (Cl. 258—22.)

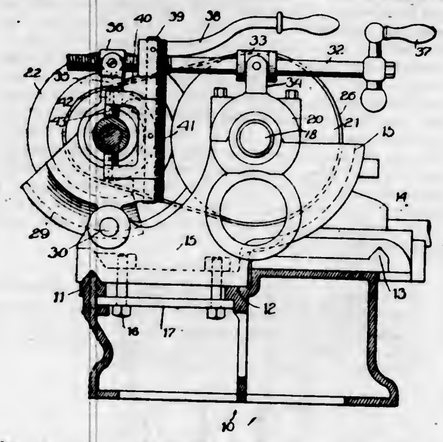


A mail bag catcher, comprising a bar bent to provide an arm and a relatively fixed catcher member in which is formed an opening and a slot, a companion catcher member pivotally connected to the fixed catcher member, a rod projecting laterally from the pivoted catcher member and passing loosely through the opening of the fixed catcher member, a spring on the rod yieldably pressing the catcher members together, a spacing stop carried by the fixed member and limiting the closing of the catcher members and a trigger pivotally mounted upon the fixed member at one end of the slot therein and operable through the said slot and serving to normally hold the members apart a given distance and displaceable by the mail to admit of the members closing and retaining the mail after being delivered to the catcher.

1,387,519. CONE-PULLEY HEAD-STOCK. GUSTAF DAVID SUNDSTRAND, Rockford, Ill., assignor to Rockford Tool Company, Rockford, Ill., a Corporation of Illinois. Filed Aug. 23, 1919. Serial No. 319,308. 23 Claims. (Cl. 74—21.)

1. A lathe having, in combination, a bed, spaced ways on said bed, a head stock on said ways, a lathe spindle

carried by said headstock and located approximately vertically over one of said ways, a countershaft carried by said headstock and located approximately vertically over



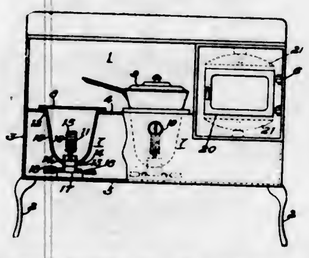
the other way, cone pulleys carried by said spindle and countershaft, means for varying the distance between said spindle and countershaft by moving the shaft, and power-receiving means carried by the shaft.

1,387,520. CONTAINER. WILLIAM B. THOMAS, Jr., Philadelphia, Pa. Filed Oct. 4, 1920. Serial No. 414,417. 2 Claims. (Cl. 220—43.)



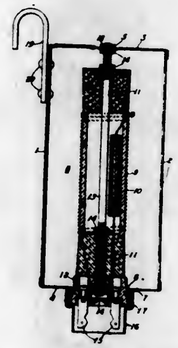
1. A container including a body portion; a lid for the body portion; a pivot member on said lid; and a strip plate mounted on said pivot member and having a portion engaging the inner surface of the lid and an extended portion protruding out of the container between the lid and the body portion; substantially as described.

1,387,521. RADIANT HEATER FOR ELECTRIC RANGES. FRANK THORNTON, Jr., Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Nov. 20, 1919. Serial No. 339,291. 9 Claims. (Cl. 219—37.)



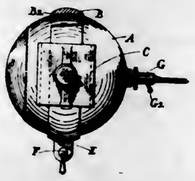
1. In a cooking apparatus, the combination with a food-supporting means, of an electric heating element, and a reflector adapted to reflect substantially all of the heat generated by said heating element against said supporting means.

1,387,522. AUTOMOBILE-ENGINE HEATER. FRANK THORNTON, Jr., Mansfield, Ohio, assignor to Westinghouse Electric Products Company, a Corporation of Michigan. Filed Dec. 10, 1919. Serial No. 343,896. 7 Claims. (Cl. 219—38.)



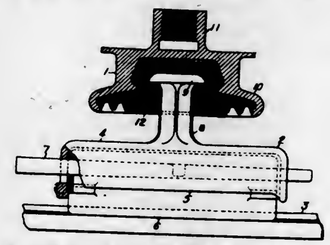
1. In an electrical heater, the combination with a casing, of longitudinally-extending heating means in said casing, and supporting means for said heating means at each end of said casing and integral therewith.

1,387,523. LAMP AND LAMP-HOLDER. CHARLES FREDERIC VAUGHAN, London, England. Filed July 8, 1920. Serial No. 394,731. 2 Claims. (Cl. 240—7.)



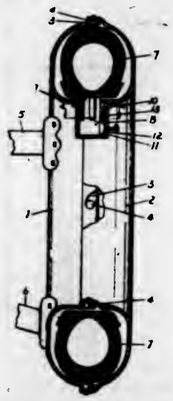
1. In an automobile lamp, the combination with the lamp casing having a spherical surface, of a split clamping ring fitting said surface, and a screw device for positively moving the ends of said clamping ring toward or away from each other causing the ring to tighten around the said casing or loosen therefrom.

1,387,524. INSULATOR TROLLEY-CONDUCTOR CLAMP. NILS J. A. WAHLBERG, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 13, 1919. Serial No. 323,555. 4 Claims. (Cl. 191—42.)



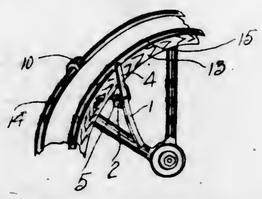
1. In a conductor insulating support, the combination with an insulator comprising a metal supporting hood and an insulating member disposed thereunder to be protected thereby, of a conductor clamp comprising a metal member having an elongated portion extending parallel to the conductor and an integral headed shank on the elongated portion for coöperative holding relation to said insulating member.

1,387,525. TIRE-HOLDER. BRUCE M. WARNER, Jackson, Mich. Filed Jan. 16, 1920. Serial No. 351,866. 4 Claims. (Cl. 224—29.)



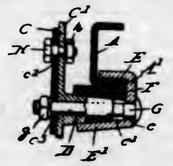
4. In a tire holder, the combination of a pair of annular casing members having coacting joint members adapted to be engaged and disengaged by a relative rotative movement of the members, said holder having a nipple adapted to receive the valve of a tire arranged in the holder, said nipple comprising a member mounted on each casing adapted to coact when the casing members are closed, and a means engaging said nipple constituting a locking means for said joint members.

1,387,526. RIM-TOOL. FRED WEISS, Woodstock, Ill. Filed Oct. 27, 1920. Serial No. 419,791. 1 Claim. (Cl. 157—6.)



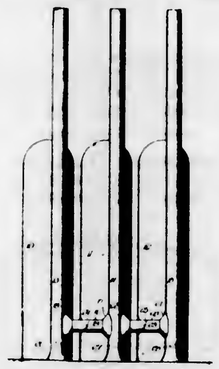
A rim tool for wheels comprising a lever handle; a lug hinged to the lever handle at a point spaced from the end thereof; a threaded bore in the lug perpendicular to the lever handle; a threaded rod to engage the threaded bore of the lug; a short hook rod hinged to the free end of the threaded rod; and an inwardly turned hook on the free end of the hook rod.

1,387,527. AUTOMOBILE-BUMPER. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Dec. 24, 1920. Serial No. 433,025. 4 Claims. (Cl. 293—55.)



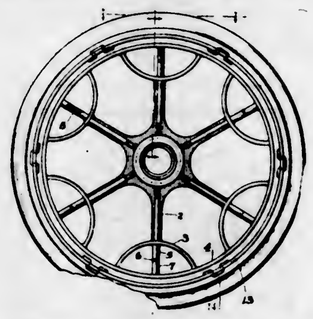
1. In combination with a bumper having a rearwardly extending supporting arm adapted to be applied laterally to a vehicle side bar, two similar clamping devices each comprising (*a*) a bracket consisting of a frusto-conical stem and an arm extending transversely therefrom at one end thereof, (*b*) a U-shaped clasp with diverging limbs for engaging the bracket with a flange of the vehicle side bar, one limb of said clasp being inwardly concave to fit the frusto-conical stem, and the other being adapted to lodge on the inner surface of the side bar flange; (*c*) a coöperating part having one side concaved to fit the bracket stem and the other flat for fitting on the outer surface of the side bar flange, and, (*d*) a clamping bolt extending through the bracket stem for forcing the U-clasp longitudinally of said stem, the bumper supporting arm being engaged by said bolt of one of the clamping devices, and a separate bolt engaging it with the bracket arm of the other of the clamping devices at a distance from said clamping bolt thereof.

1,387,528. CHIMNEY FOR HOT-BLAST STOVES. FREDERICK H. WILLCOX, Chicago, Ill., assignor to Freyn, Brassert & Company, Chicago, Ill., a Corporation of Illinois. Filed July 17, 1919. Serial No. 311,579. 4 Claims. (Cl. 263—20.)



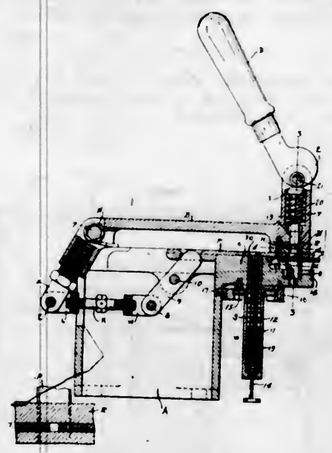
1. In combination with hot blast stoves, of chimneys and means having passages therethrough connecting the chimneys.

1,387,529. CAST-STEEL-SPOKED WHEEL. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed Sept. 18, 1919. Serial No. 324,497. 6 Claims. (Cl. 301—65.)



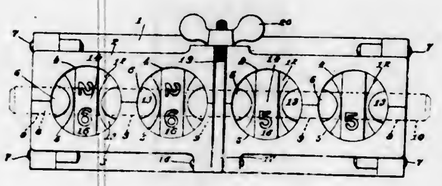
3. In a cast steel spoked wheel, a series of spokes extending from the hub in a plane and merged into the crown of arched members connected to the rim; with a continuation of the radial spoked members extending through and also connected to the rim.

1,387,530. MACHINE FOR SETTING SNAP-FASTENERS ON GARMENTS. ISADOR WOLFELD and ADOLPH KOHL, Cleveland, Ohio. Filed May 28, 1920. Serial No. 384,819. 2 Claims. (Cl. 1—3.)



1. The combination of a clenching die, a swinging arm, a pair of staple guides carried by said arm at opposite sides thereof, a plunger carried by the arm and swinging therewith toward and from the die, and adapted to force staples from said guides through the work and against the die, means carried by the arm to feed staples to each of said guides, and means carried by the arm to advance the plunger with respect to the arm.

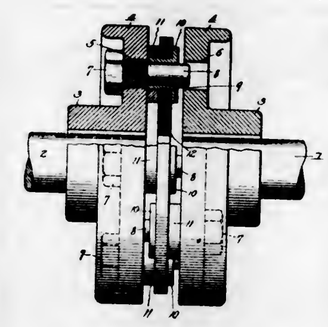
1,387,531. CORE-BOX. SMITH B. DE VED and GEORGE C. DE VED, Baltimore, Md. Filed Mar. 17, 1921. Serial No. 453,096. 11 Claims. (Cl. 22—13.)



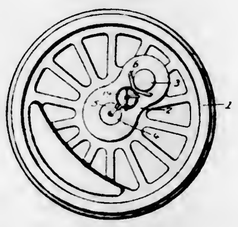
7. A core box having movable side members registering concavities in said members forming a core pocket, legs extending into the pocket, the legs being spaced apart; a rod extending diametrically across the pocket in contact with the extremity of each of said legs and a removable number plate between the legs and opposite the rod.

1,387,532. FLEXIBLE COUPLING. IRVEN H. DEXTER, Pearl River, N. Y., assignor to I. H. Dexter Co., Inc., New York, N. Y., a Corporation of New York. Filed July 8, 1919. Serial No. 309,364. 2 Claims. (Cl. 64—96.)

1. In a flexible coupling, driving and driven coupling members, pins or studs mounted on said coupling members and projecting axially of said coupling members, the pins or studs on one coupling member being arranged alternately with respect to the pins or studs on the other of said coupling members, a flexible disk arranged between said coupling members, and bushings slidable axially on said pins or studs, said bushings being secured to said disk.



1,387,533. DEVICE FOR QUARTERING DRIVING-WHEELS OF LOCOMOTIVES. HENRY EISELE, Decatur, Ill. Filed Feb. 28, 1919. Serial No. 279,810. Renewed May 9, 1921. Serial No. 467,932. 7 Claims. (Cl. 33—181.)

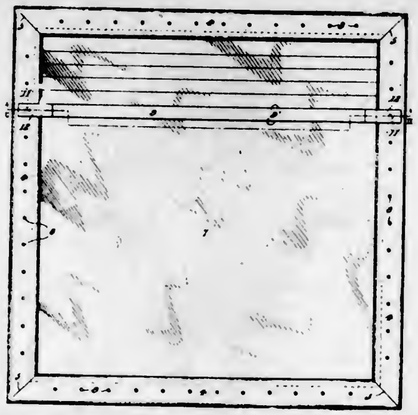


1. A device of the character described, including, in combination, an extensible bar having a fork at one end adapted to engage a pin and having a knob at the other end adapted to fit in a hole, a dial secured to said bar intermediate said fork and knob and having indications thereon, and a weighted pointer pivotally mounted on said dial and adapted to register with the indications thereon.

1,387,534. BLACKBOARD OR SLATE. ALLAN B. ELLIS, Appleton, Wis. Filed July 30, 1920. Serial No. 400,161. 1 Claim. (Cl. 35—10.)

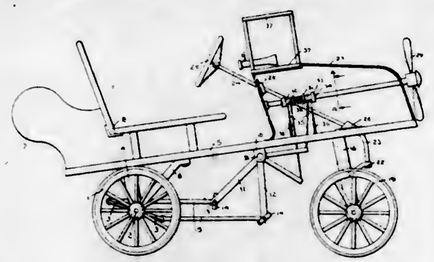
The combination with a blackboard having a rectangular frame and equi-distantly spaced openings extending through the frame midway the edges at each side thereof, of a ruler having the opposite ends thereof cut away upon the lower face to provide inner side shoulders substantially frictionally engaging the inner edges of the opposite sides of the blackboard frame, the upper walls of the cut away portions overlying the upper sides of the frame, and a pin depending from the end of the ruler into the cut away portion selectively received in transversely alined openings, the ruler being of a width

equal to half the distance between two adjacent openings whereby two parallel lines may be drawn at each mount-



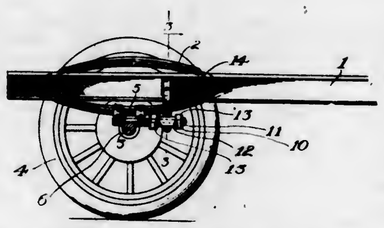
ing of the ruler with all of the lines equi-distantly spaced.

1,387,535. TOY VEHICLE. EDWIN H. L. ENGLUND, Muskegon, Mich. Filed July 12, 1920. Serial No. 395,800. 3 Claims. (Cl. 208—42.)



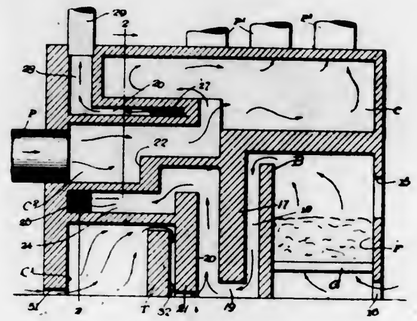
1. A toy vehicle including a body, supporting wheels, a crank axle revoluble with the rear supporting wheels, bell cranks mounted for oscillation, means for transmitting motion therefrom to the crank axle, operating pedals connected to the bell cranks, a propeller, a shaft therefor, and means operated alternately by the bell cranks for spinning the propeller and its shaft.

1,387,536. SHOCK-ABSORBER. CHARLES A. GLASS, Chicago, Ill. Filed July 17, 1920. Serial No. 396,922. 2 Claims. (Cl. 267—36.)



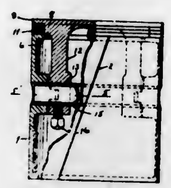
1. In a shock absorber, the combination with a vehicle frame, and the axle, of a support secured to the axle at the inner side of the frame and projecting horizontally from the axle longitudinally of the frame, a roller mounted on the projecting portion of the support, and a leaf spring rigidly secured at its upper end to the vehicle frame and having its lower portion free and curved away from the vertical plane in which the upper end is secured to the frame, said free portion extending past and bearing constantly against the roller.

1,387,537. FURNACE. MICHAEL JOSEPH GRANEY, Pittsburgh, Pa. Filed Oct. 7, 1920. Serial No. 415,433. 6 Claims. (Cl. 126—90.)



1. A furnace comprising, a fire box, a hot air chamber above the fire box and contiguous thereto, an air heating chamber communicating with the hot air chamber, and passages formed in the furnace to direct the burning gases against the bottom wall of the hot air chamber and completely around the air heating chamber.

1,387,538. ENGINE-PISTON. EDWARD J. GULICK, Elkhart, Ind. Filed June 30, 1919. Serial No. 307,527. 7 Claims. (Cl. 74—108.)

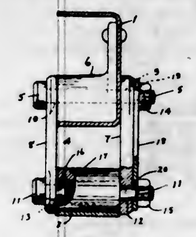


1. A piston comprising a tubular body section provided with oppositely disposed wrist pin apertures; a separate piece piston head provided with a pair of oppositely disposed transversely apertured depending members, the apertures whereof are disposed axially of said wrist pin apertures; a complementary tongue and groove connection between said depending members and the piston body; and a wrist pin arranged within said wrist pin apertures and the apertures of said piston depending members.

1,387,539. ANTIRATTLER. EDWARD J. GULICK, Elkhart, Ind. Filed Aug. 30, 1919. Serial No. 320,790. 3 Claims. (Cl. 267—54.)

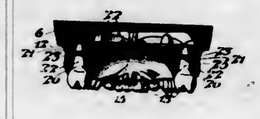
1. The combination with a vehicle spring and a spring shackle having a plurality of links and bolts and carried by the frame of a vehicle, of an antirattling device com-

prising a bent metal spring member arranged longitudinally of and adjacent one shackle link and supported by



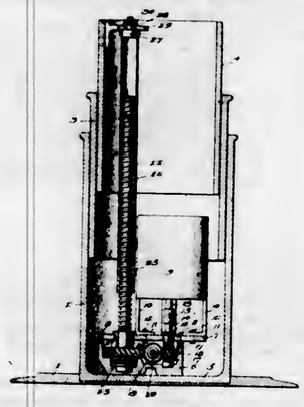
and connecting the shackle bolts; and means for compressing and flattening said spring member against the face of the shackle link.

1,387,540. TECHNICAL ANATOMICAL DENTAL MODEL. FRANK G. HAWKSWORTH, Westmont, N. J., and JOHN HENRIK EKLOF, Lansdowne, Pa., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Nov. 21, 1918. Serial No. 263,553. 2 Claims. (Cl. 35—16.)



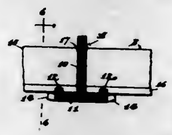
1. A device of the class described, comprising a denture having tooth receiving apertures extended therethrough, teeth loosely fitted in said apertures with their root ends projecting through the inner face of said denture, and yielding material on said inner face engaging said teeth in said apertures for permitting their relative gyration.

1,387,541. DENTAL-CHAIR JACK. DONALD C. HAYDEN, Bridgeport, Conn. Filed Aug. 19, 1920. Serial No. 404,702. 4 Claims. (Cl. 155—93.)



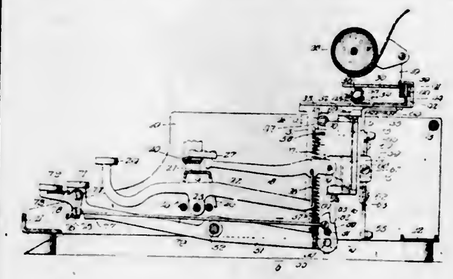
3. In an electrically operated jack for chairs, a telescopic pedestal, a gear case in the lower pedestal section, a threaded shaft journaled at its lower end in the gear case, a tubular member carried by the upper pedestal section and threadedly engaged over the shaft, a gear on the lower end of the shaft, a motor, means to removably support the motor from the gear case, a driving connection in the gear case engaged with the shaft gear and including a part extending out from the gear case, and a detachable coupling between the motor and said last named part.

1,387,542. METAL SASH. PATRICK J. HEALEY, Jersey City, N. J. Filed Apr. 15, 1920. Serial No. 374,183. 3 Claims. (Cl. 189—36.)



1. A metal sash comprising crossing bars, each formed with a web and a flange, one of said bars having ribs lying along the edges thereof and with a slot lying wholly within the web of said bar and adapted to receive the other cross bar therethrough, the ribs of said bar adjacent said slot notched and bent outward to form tongues lying in the general plane of the flange, the second cross bar provided with a notch in the free edge of its web and adapted to engage the web at the lower extremity of the slot of the first mentioned bar, and the flange of the second mentioned bar adapted to seat within the notches formed by the tongues of the first mentioned bar.

1,387,543. TYPEWRITING-MACHINE. HUBERT K. HENRY, Detroit, Mich., assignor, by mesne assignments, to Rex Typewriter Company Incorporated, Fond du Lac, Wis., a Corporation of Virginia. Filed Jan. 18, 1918. Serial No. 212,444. 18 Claims. (Cl. 197—72.)

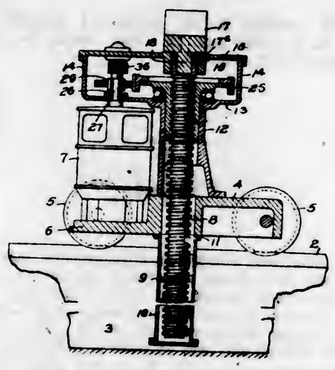


1. In a front-strike typewriting machine, the combination with a main frame, of a vertically shifting frame comprising uprights having rearwardly projecting arms at their outer ends, a carriage bed mounted on said arms, a platen carriage on said bed, a key actuated rocking frame mounted in said main frame and connected at its rear end to the lower ends of said uprights, guiding means on said main frame engaging said uprights for holding said shifting frame against movement in fore-and-aft direction, and depending adjustable guide shoes on said shifting frame and engaging said main frame to take up lateral play in transverse direction, substantially as described.

1,387,544. DROP-PIT JACK. ROBERT L. HIBBARD, Pittsburgh, Pa. Filed Oct. 4, 1919. Serial No. 328,372. 6 Claims. (Cl. 254—7.)

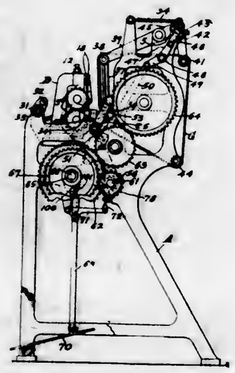
1. In a drop-pit jack, in combination, a truck frame comprising a base and a standard provided with a vertical opening, said standard being provided with an enlarged

overhanging chambered head, a nut rotatably mounted in said chamber and journaled in said standard form a closure therefor, a lifting screw engaged by said nut, an electric motor mounted on the base at one side of the standard and having its armature shaft projecting up



through the bottom of the overhanging head and into the chamber therein, a pinion on the motor shaft, a pair of vertical stub shafts mounted in said chamber and geared together, one thereof being geared to the motor pinion and the other being geared to the nut.

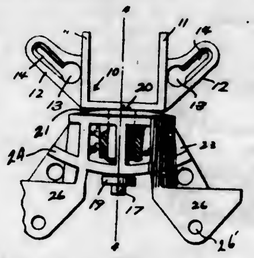
1,387,545. TOBACCO STEM ROLLING AND LEAF BOOKING MACHINE. GRAHAM H. JACKSON, Newark, N. J., assignor to Universal Tobacco Machine Company, a Corporation of New York. Filed Mar. 25, 1919. Serial No. 284,964. 27 Claims. (Cl. 131—58.)



1. The combination with stem crushing rolls between which the tobacco leaf is fed, of a booking drum, a booking belt coacting with the drum and of such width as to properly support the whole leaf, said belt being arranged at one side of the crushing rolls with no part of the belt touching the rolls, and a belt roll closely adjacent to the delivery side of said stem crushing rolls and around which said booking belt passes to receive the leaf from the crushing rolls.

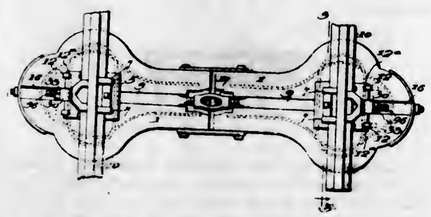
1,387,546. SLED. CHARLES J. JOHNSON, Elk River, Minn. Filed Feb. 1, 1919. Serial No. 274,426. 1 Claim. (Cl. 280—27.)

In a sled, runners, a bunk connecting said runners, a box shaped to fit and receive each end of the bunk and provided on its outer face at opposite ends with upwardly and outwardly inclined ears, each having an aperture with



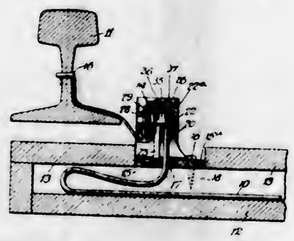
a slot extending longitudinally toward the free ends of the ears to form chain locking means.

1,387,547. CONCRETE RAILWAY-TIE. WILLIAM J. LANKFORD and WALTER H. CHAPPELL, Chanute, Kans. Original application filed Oct. 30, 1920, Serial No. 420,605. Divided and this application filed Mar. 14, 1921. Serial No. 451,967. 6 Claims. (Cl. 238—30.)



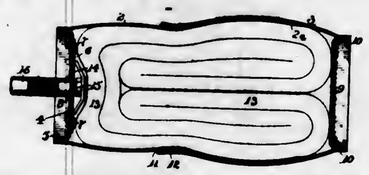
2. In a railway tie structure, two body sections, means for holding said sections in endwise relation, other means embedded in each tie section for engaging the inner flanges of the rails, further means for engaging the outer flanges of the rails, the said further means comprising a cross bar having its opposite ends extended under the opposite rail members and clamps adjustably mounted on said opposite ends of the cross bar, the said clamps having portions for engaging and forcing the rails against the inner rail flange clamping means.

1,387,548. ELECTRICAL CONNECTOR DEVICE. HAROLD K. LOWRY, Chicago, Ill. Filed Oct. 3, 1918. Serial No. 256,676. 6 Claims. (Cl. 173—262.)



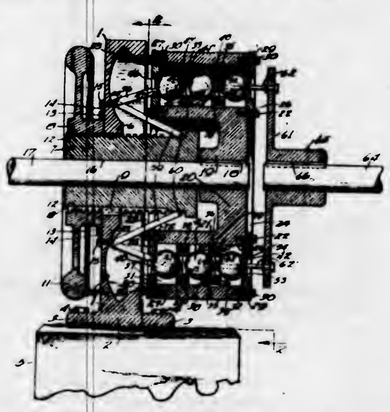
1. An electrical connector device of the character described comprising a metallic base adapted to rest upon a trunking conduit adjacent to a track rail, said base having an opening therethrough for a wire leading out of said conduit, a pair of oppositely disposed protective sides integral with the base and extending upward therefrom, a top integral with the sides, said base, sides and top forming an arch defining an interior open space for wires, and means including a plurality of holes and wedging pins therefor in said arch for securing to the device and in electrical communication with each other a wire extending through said opening in the base and a second wire adapted to lead from the device to the track rail.

1,387,549. PROTECTIVE STORAGE-CASING FOR INNER TUBES. JOHN F. LUNGREN, Philadelphia, Pa., assignor of one-half to Samuel P. Kentworthy, Philadelphia, Pa. Filed Mar. 6, 1920. Serial No. 363,663. 4 Claims. (Cl. 206—46.)



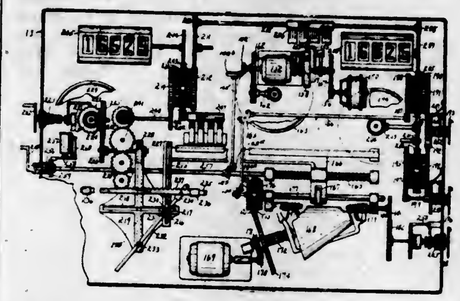
1. An extensible storage casing for inner tubes of automobile tires, comprising two telescoping portions respectively closed at one end and open at the other and providing soft pliable side walls extending from the closed end to the open end and telescopically arranged and expansible into frictional engagement, and in which the closed end of one of said portions is provided with a central aperture, the casing being adapted to receive a folded inner tube with the valve extending through the aperture and upon partial inflation expands the flexible walls of the telescoping portions into tight engagement.

1,387,550. FRICTION TRANSMISSION MECHANISM. HENRY MCDERMOTT, Electra, Tex. Filed MAR. 28, 1921. Serial No. 456,066. 3 Claims. (Cl. 74—26.)



1. In a friction transmission mechanism, a drive shaft, means for supporting the drive shaft for rotation, a drive disk rigidly mounted on the drive shaft, said drive disk being formed with a laterally extending rim, means carried by the rim to provide an inner ball race member fixed to said rim, a freely movable outer ball race member, balls arranged in separated parallel series between said race members, means for preventing the revolution of the balls in one series about the axis of the drive shaft while permitting free rotation thereof about their respective axes, a shaft to be driven, a disk rigidly mounted thereon, and means rigidly connected with the axis of the series of balls remote from the first named series of balls for rotating the last named disk.

1,387,551. RANGE-PREDICTING APPARATUS. ELEMER MEITNER, Brooklyn, N. Y., assignor, by mesne assignments, to Ford Instrument Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 4, 1915. Serial No. 25,695. 13 Claims. (Cl. 235—61.)



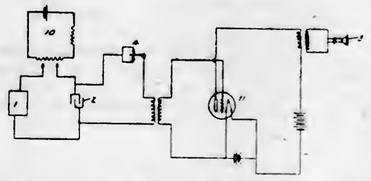
1. The method of determining the rate of change of the range, which consists in mechanically recording as a single vector the relative course and speed of the target and resolving such a vector in the direction of the instantaneous target bearing as indicated on the chart as a single vector.

3. In a range indicator, the combination with means whereby the relative velocity and bearings of the target may be determined, of means for mechanically obtaining therefrom the rate of change of range comprising a cam slot adapted to be set to the angle between the relative course and the target bearings, a slide adapted to be set to a position indicating the relative speed of the target, a pivoted lever having a pin engaging said cam slot and pivoted to said slide and a slide at an angle to said other slide connected with said lever, and means whereby the position of said last mentioned slide may be observed.

6. In variable range apparatus, consisting in the combination of means for initially setting the apparatus to the present range, of a repeating device adapted to be actuated from a rate of change indicator, a continuously actuated member, means for compounding the movements of said setting means, said member and said repeating device, whereby the variable range is automatically indicated.

7. In optical indicating apparatus, a differential gear train including three arms, an indicator proper, driven by one arm of said train, automatic means for driving a second arm, a normally operative lock for the third arm, a normally inoperative manual setting means adapted to drive on actuation said third arm, and means whereby said lock is rendered inoperative on actuating said setting means.

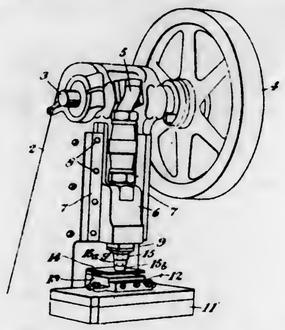
1,387,552. METHOD AND APPARATUS FOR DETECTING OR MEASURING SMALL ELECTROMOTIVE FORCES. ERNEST MERRITT, Ithaca, N. Y. Filed Sept. 6, 1919. Serial No. 322,228. 6 Claims. (Cl. 175—183.)



1. The method of measuring a small electromotive force which consists in connecting the source of the electromotive force to a condenser through a potentiometer, periodically short circuiting the condenser through a cur-

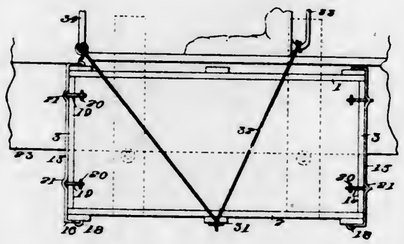
rent detecting means, and adjusting the potentiometer until no current is detected in the detecting means, substantially as described.

1,387,553. PROTECTIVE GUARD FOR THE TOOLS OF CUTTING AND PUNCHING MACHINES, &c. ISIDORE LEO MILLER, New York, N. Y., assignor of one-fourth to Herman Miller, one-fourth to Norman Miller, and one-fourth to Nathan Miller, New York, N. Y. Filed Feb. 28, 1920. Serial No. 361,990. 7 Claims. (Cl. 74—105.)



1. In a machine of the class described, the combination with a tool-holder and tool and with a plate adapted for the passage of the tool therethrough, of a sheath inclosing said tool from the tool-holder to the plate.

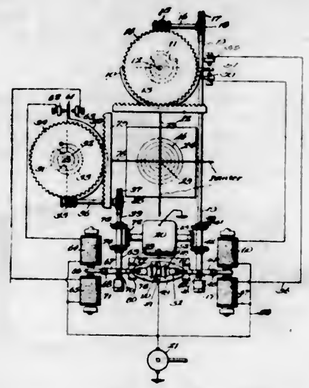
1,387,554. CRATE. MORRIS RALPH MOFFITT, Peck, Kans. Filed Nov. 28, 1919. Serial No. 341,116. 2 Claims. (Cl. 217—36.)



1. A crate comprising side and end walls and a top and bottom wall, the end walls having inwardly extending flanges at their bottoms for engaging beneath the ends of the bottom wall, and having stops for engagement by the top wall, and the side walls having stops for engagement by the end walls to limit their inward movement, a common means for clamping the sides and the ends in place and for clamping the top to the ends, said means comprising rods extending transversely of the ends and having angular portions engaging over the sides, the angular portions having depending lugs, and the sides having staples for engagement by the lugs, and angle bars pivoted at one end to the top and extending at the other between the rods and the ends, said rods having outwardly bent portions for receiving the angle bars.

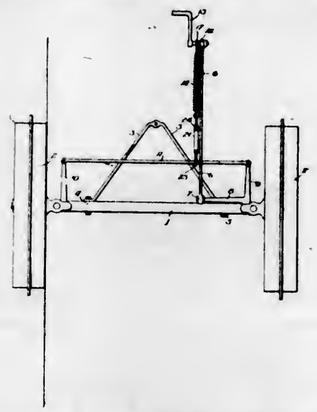
1,387,555. AEROPLANE SPEED-INDICATOR. ARTHUR F. POOLE, Kenilworth, Ill. Filed July 8, 1918. Serial No. 243,996. 6 Claims. (Cl. 175—183.)

1. In a speed indicating apparatus, the combination of a movably mounted element adapted to be displaced from its normal position by motion through the earth's magnetic field, and automatic means to hold said element in



an approximately constant angular position with respect to the earth's magnetic field.

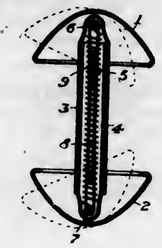
1,387,556. DEVICE FOR GUIDING TRACTORS. ELTON ELMER PYLE, Morris, Ill. Filed Mar. 27, 1920. Serial No. 369,408. 2 Claims. (Cl. 280—87.)



1. In combination with a steering apparatus of a tractor comprising a shiftable steering arm, steering knuckles, a tie rod connecting the steering knuckles, a steering rod operatively connecting the steering arm and a steering knuckle, a device for guiding the tractor to maintain the ground wheels at one side thereof in constant contact with the furrow comprising a tension member having one end secured to the steering arm and the other end secured to the tie rod in said steering apparatus.

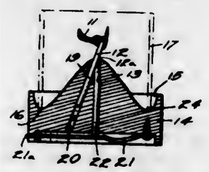
1,387,557. CUFF-LINK. VICTOR B. ROGERS, New York, N. Y. Filed Jan. 25, 1919. Serial No. 273,011. 3 Claims. (Cl. 24—102.)

1. In a cuff link, heads and an intermediate expansible shank, such shank comprising telescoping members, and a spring within said shanks extending substantially from end to end thereof to hold the telescopic sections in the telescope position, said heads being in the form of relatively deep domes or cups with the rims of the cups arranged as clamping surfaces for the cuff, the respective telescoping sections being secured at the deepest point of the dome or cup, and the depth of the cup at said point being such that the distance of separation of the cuff clamping surfaces when the telescoping sections are



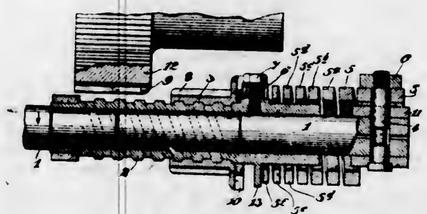
in the expanded position is much more than twice the separation of said clamping surfaces when the telescoping sections are in the normal contracted position.

1,387,558. SPRUE-FORMER. ELLING I. ROSHEIM, Roland, Iowa. Filed Apr. 11, 1921. Serial No. 460,403. 4 Claims. (Cl. 22—97.)



1. A sprue former having a central upper dome-shaped member with a channel surrounding said dome-shaped member, said dome-shaped member having an opening inclined from its upward central portion downwardly and away therefrom, and means for engaging a pin in any position of the longitudinal adjustment of said pin in said opening.

1,387,559. STARTER. SAMUEL W. RUSHMORE, Plainfield, N. J. Filed Dec. 20, 1920. Serial No. 431,852. 9 Claims. (Cl. 74—7.)

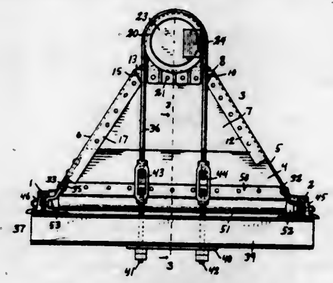


1. A starting device comprising a driving element, a rotatable element driven thereby, a power receiving and transmitting device mounted to travel longitudinally on said rotatable element, and a yielding driving connection between said elements, comprising a spring having a stiff portion and a more flexible portion for the purpose described.

1,387,560. PROCESS OF PREPARING WHOLE RICE. AIMÉE MOUILLAND SAINT, Kaplan, La. Filed May 26, 1921. Serial No. 472,869. 1 Claim. (Cl. 99—10.)

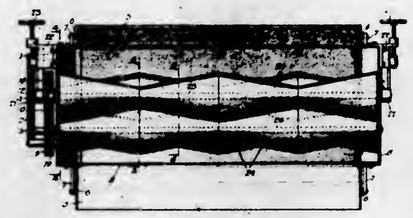
The herein described process of preparing a cereal food which consists in washing whole uncoated rice, placing the same, while wet, in a pan where it is heated, thereby to bake and dry the rice, then cooling the rice, and finally reducing the rice to a granular form.

1,387,561. BUMPING-POST. JOHN M. SCOTT, St. Petersburg, Fla. Filed Feb. 7, 1921. Serial No. 442,962. 6 Claims. (Cl. 104—254.)



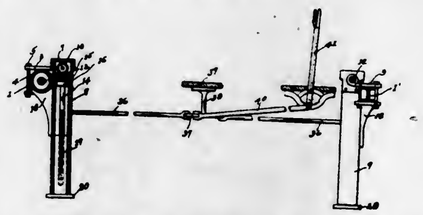
1. The combination in a bumping post of a standard, a spring box provided with a plunger and resilient or yieldable backing means, splicing members for securing the standard to rails, and a tie rod and an anchor for securing the front end of the bumping post to the rails.

1,387,562. NUT-BLANCHING MACHINE. HARRY E. SPIKER, Chicago, Ill., assignor, by direct and mesne assignments, of one-half to John W. Chapman and one-half to William H. Brown, Chicago, Ill. Filed Mar. 12, 1921. Serial No. 451,906. 3 Claims. (Cl. 146—14.)



1. In a nut blanching machine, a pair of oppositely disposed coacting resilient cones, between which the nuts are fed for the purpose of removing skins therefrom.

1,387,563. AUTOMOBILE-JACK. VINCENT STAWICKI, Milwaukee, Wis. Filed Mar. 25, 1921. Serial No. 455,534. 7 Claims. (Cl. 254—86.)

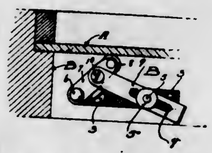


1. A motor vehicle, a plurality of jacks permanently attached to said vehicle, means for moving said jacks into and out of operative position, and means for applying the power of the motor of said vehicle to operate the jacks.

1,387,564. WINDOW-CLAMP. HERMAN W. STRUEBING, Milwaukee, Wis. Filed Oct. 28, 1920. Serial No. 420,144. 1 Claim. (Cl. 292—239.)

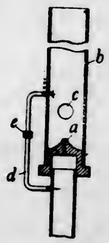
A clamp adapted to be fastened to a window comprising a narrow strap bracket, having an intermediate perforated loop, an arm in pivotal union with one end of the

bracket having a gripping roller at its free end, a slotted strap having one end in pivotal union with the arm, a clamping bolt extending through the apertured bracket loop and arm slot, the strap bracket, arm and strap being



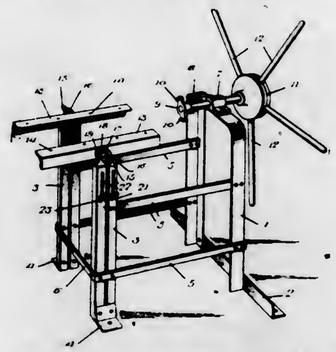
of the same general width, whereby when they are folded to inactive position, they come in nested alinement, the roller carrying end of the arm being in juxtaposition to the bracket loop and the strap overhanging the same to form a casing for the parts thereunder.

1,387,565. INJECTOR FOR GAS-BURNERS. FRANKLIN THORP and HARVEY THOMAS THORP, Whitefield, near Manchester, England. Filed Jan. 20, 1921. Serial No. 438,767. 1 Claim. (Cl. 158—118.)



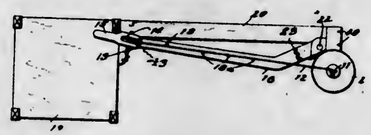
In gas burners, the combination with a gas orifice or orifices permitting of the inflow to the burner of a definite quantity of gas in a given time and exerting an injective action to draw air into the burner at a fixed uniform rate, of a supplementary gas inlet to the burner, the gas from which exerts no injective action on the air inlet or inlets to the burner so that the rate of air inflow is not materially varied by the supplementary gas supply, as set forth.

1,387,566. ENGINE-OVERHAULING STAND. WILLIAM R. VAN TRUMP, Philadelphia, Pa. Filed Jan. 27, 1920. Serial No. 354,336. 6 Claims. (Cl. 29—89.)



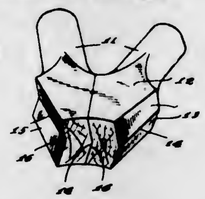
1. An engine overhauling stand comprising a frame, engine-supporting means within the frame, bearings carried by the frame and supporting said means for tilting movement about a transverse axis, a longitudinal shaft having means to move into engagement with the engine crank shaft and having means for manually turning same, and a bearing supporting said shaft for rotary and sliding movement from the frame, some of said bearings being vertically adjustable on the frame to adjust said means and shaft vertically relatively to one another.

1,387,567. STRINGED INSTRUMENT. WILLIAM ALONZO VINSON, Baltimore, Md. Filed Dec. 27, 1919. Serial No. 347,783. 7 Claims. (Cl. 84—296.)



1. An instrument comprising a sound box having one wall thereof formed by a flexible diaphragm and having an opening at the opposite wall, an amplifying horn detachably connected with the sound box at the opening and a cord connected with the diaphragm at the center thereof for vibrating said diaphragm when the cord is struck or plucked, a support for the sound box and amplifier, and a neck pivoted to the support and having a key at the end remote from the sound box upon which the end of the string is wound, said neck being pivoted to swing laterally parallel with the plane of the diaphragm, the pivotal connection being lateral to the line of the string to vary the tension of the string when the neck is swung, said neck being also pivoted to swing at right angles to the plane of the diaphragm, the neck having a series of openings spaced longitudinally thereof and a peg adapted to engage one of the openings and the string for the purpose specified.

1,387,568. WOOD WHEEL. CHARLES NAHUM WATERHOUSE, Muncie, Ind. Filed Apr. 25, 1921. Serial No. 464,376. 1 Claim. (Cl. 301—85.)



As an article of manufacture, a wheel comprising felly and spokes united at their inner wedge ends into an arch, the radial faces of said wedge ends being coöperatively mated by divergent surfaces serving to determine axial position of the inner ends of the spokes when the same are mated into a circular arch, the said divergent surfaces being at such angle to each other that the wedge ends will slip upon each other axially to proper position.

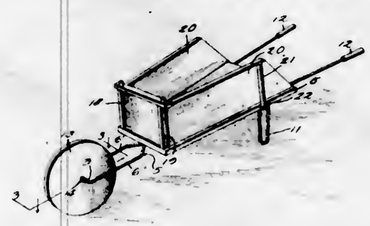
1,387,569. COMPOSITION. ELWYN M. WATT, Summerton, S. C. Filed Feb. 26, 1919. Serial No. 279,468. 2 Claims. (Cl. 167—10.)

2. A composition for the purposes described consisting of linseed oil, sulfur, spirits of camphor and spirits of turpentine the oil constituting more than 50% of the mixture.

1,387,570. TOY WHEELBARROW. CHARLES L. WECHT, Logansport, Ind. Filed Jan. 3, 1920. Serial No. 349,336. 1 Claim. (Cl. 280—52.)

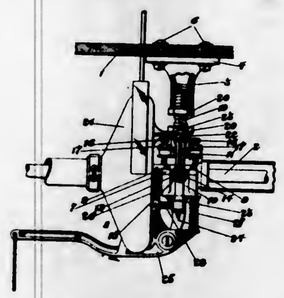
A wheelbarrow including a frame formed of a single metal rod bent intermediate its ends to provide an axle

and two side bars, the side-bars extending rearwardly from the axle in parallel relationship to each other for a short distance, then crossing and diverging to the extremities of the rods, the diverging portions of the side-



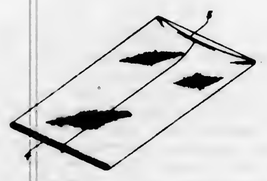
bars being bent downwardly to form parallel U-shaped members, a wheel mounted on said axle, a body mounted on the frame, and fastening means securing the crossed portions and the diverging portions of the side-bars to said body.

1,387,571. SHAFT-HANGER. BENJAMIN WEINBERGER, St. Louis, Mo., assignor to Marx & Haas Clothing Co., St. Louis, Mo., a Corporation. Filed June 14, 1920. Serial No. 388,730. 3 Claims. (Cl. 64—14.)



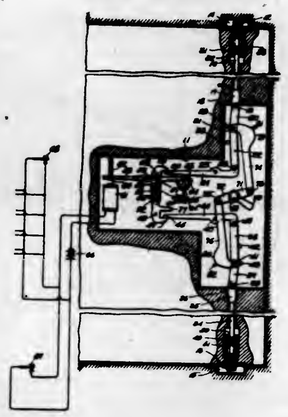
1. A device of the character described, comprising a support, clamping elements carried by said support, a hanger movable to different lateral adjustments on said clamping elements, a bracket, a member having right and left hand threaded connection with said hanger and with said bracket for adjusting said bracket in different adjusted positions relative to said hanger, a journal bearing pivotally supported by said bracket, and a shaft journaled in said bearing.

1,387,572. SWATCH. BENJAMIN WEINBERGER, St. Louis, Mo., assignor to Marx & Haas Clothing Co., St. Louis, Mo., a Corporation. Filed Oct. 18, 1920. Serial No. 417,676. 3 Claims. (Cl. 211—34.)



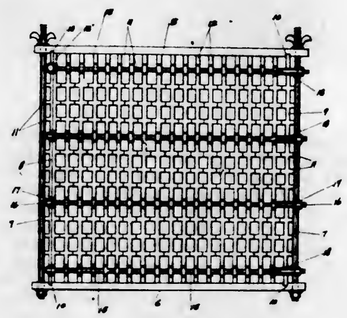
1. A swatch, comprising a section of cloth folded upon itself and having the side edges of the folded cloth folded inwardly; a line of stitching uniting the four layers of cloth provided by said folding, and a connection uniting the folded ends of the side edge portions.

1,387,573. LOCK-CONTROL FOR EMERGENCY EXIT-DOORS. JOSEPH F. WILSON, Lawrence, Mass. Filed Aug. 13, 1917. Serial No. 186,072. 14 Claims. (Cl. 292—85.)



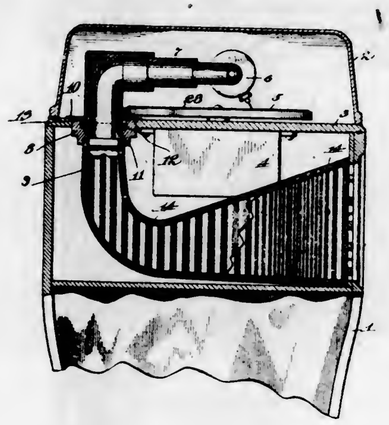
1. A door, a bolt mounted on said door, a toggle linkage connected at one end to said bolt, a guide retaining said linkage extended substantially in the line of movement of the bolt, a movable abutment for the other end of said linkage, a latch for holding said abutment fixed in a position whereby said bolt is projected, means for releasing said latch, and other means for displacing the knuckle of said linkage and thereby permitting retraction of the bolt.

1,387,574. CANDY-MOLD. PETER WITTY, Evanston, Ill. Filed June 28, 1920. Serial No. 392,360. 3 Claims. (Cl. 107—19.)



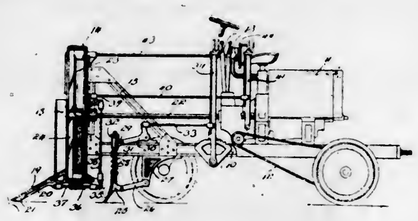
1. A mold comprising a plurality of bars assembled together in substantially parallel relation, each bar having fins on opposite sides thereof registering and coöperating with those on adjacent bars to constitute mold spaces; means for detachably securing said bars together, and a frame surrounding said bars and detachably holding same in position, substantially as described.

1,387,575. TALKING-MACHINE. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Sept. 1, 1915. Serial No. 48,492. 5 Claims. (Cl. 274—23.)



1. A sound conveying device for talking machines, defined by walls comprising a plurality of sections secured together side by side, each section consisting of a plurality of narrow strips, the strips of adjoining sections being arranged at different angles.

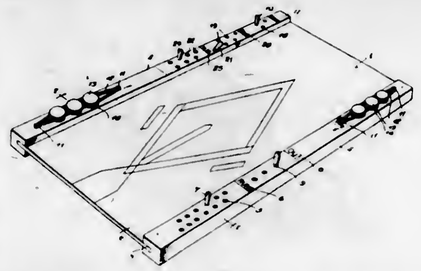
1,387,576. SNOWPLOW. LEWIS A. WORTH, Merton, Wis. Filed Dec. 3, 1919. Serial No. 342,065. 2 Claims. (Cl. 37—63.)



1. A machine of the class described comprising a vehicle, a casing mounted at the front of the vehicle, radial blades rotatably mounted in the casing on a longitudinal horizontal axis for discharging material laterally from the casing, deflector members disposed in advance of the lower portion of the casing for directing snow into said casing and having their corner portions extended to form a straight lower edge, a scoop pivoted at said straight lower edge of the deflector members, a lug depending from said scoop, a longitudinally extending link pivotally connected to said lug, and means for shifting said link longitudinally to adjust said scoop vertically about its pivot.

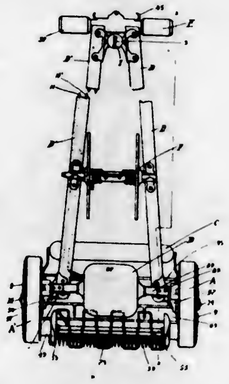
1,387,577. GAME APPARATUS. GEORGE A. WRAITH, Zanesville, Ohio. Filed Mar. 26, 1920. Serial No. 369,011. 3 Claims. (Cl. 46—63.)

1. In game apparatus, the combination with a game board and a movable game piece, of a retaining means for the game piece comprising pins upon the board, and an elastic band engaged over and extending between the



pins and between the stretches of which the game piece may be placed and gripped.

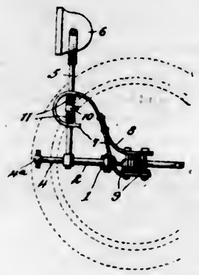
1,387,578. POWER-DRIVEN LAWN-MOWER. EMIL E. YOST, St. Paul, Minn. Filed June 7, 1920. Serial No. 387,114. 3 Claims. (Cl. 56—25.)



1. A power driven lawn mower, comprising a frame, a pair of supporting wheels therefor rotable thereon, a propelling handle pivoted on said frame, a trailer roll to the rear of said wheels to hold said frame in fixed relation to the ground, a rotary rake axially parallel with said wheels, spindles on opposite ends of said rake rigidly connected thereto and axially alined therewith, grass cutting mechanism forward of and below the axis of said wheels, a switch controlled electric motor connected with a source of electric current and operatively connected with said spindles to rotate them, and driving means for said grass cutting mechanism extending from said spindles to the latter for the purpose set forth.

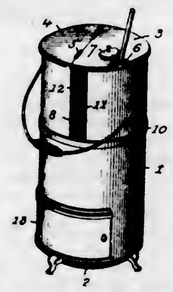
1,387,579. AUTO-LIGHT-CONTROLLING DEVICE. JOHN ZENISHEK, Solon, Iowa. Filed Dec. 2, 1920. Serial No. 427,816. 2 Claims. (Cl. 240—62.)

1. In a head-light control means, the combination of spaced parallel bars adapted to be secured to the front axle of a vehicle, brace members secured at one end to the bars, a head-light receiving member supported by the brace members and adapted to rotate with respect to the brace members, a collar secured to the head-light receiving member, springs surrounding said member and confined between the one brace member and the collar, a rod secured to said light-receiving member, an arm secured to the rod, a second rod secured to the arm at one end and to another arm at its opposite end; said



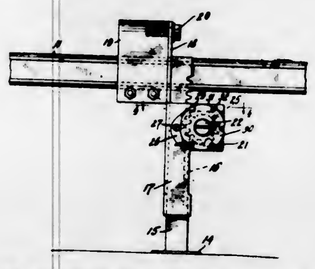
last-named arm being secured to and movable with respect to the spindle of the motor vehicle.

1,387,580. MOP CLEANER AND HOLDER. JESSIE LEIGH ALLEN, New York, N. Y. Filed May 17, 1920. Serial No. 381,965. 1 Claim. (Cl. 15—25.)



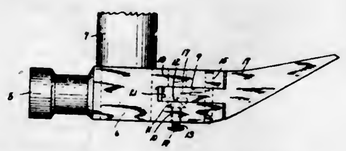
A cleaner and holder for household mops, comprising a casing having a closed bottom, an open top closed by a cover, and a vertical opening in its side wall extending from the top to near the mid-height of the wall, and a grating arranged within the casing in adjacent relation to the lower end of the aforesaid slot, said grating having a space or passage for a mop head, substantially as set forth.

1,387,581. AUTOMOBILE-JACK. JOHN BELLAY, Belleville, N. J. Filed Dec. 27, 1920. Serial No. 433,435. 1 Claim. (Cl. 254—86.)



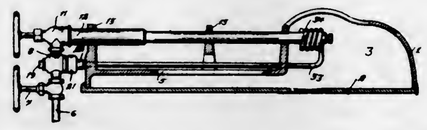
A lifting jack comprising a tubular frame, a standard slidably extending therethrough, a base on said standard, said standard being provided with rack-teeth, a spindle rotatably mounted on said frame, a pinion fixed to said spindle meshing with said rack-teeth, a second pinion rigidly fastened to said spindle, a spring-pressed pawl pivoted to said frame in engagement with said second mentioned pinion, said two pinions having the same number of teeth, a star-wheel fixed to said spindle, and a lug on said pawl in engagement with said star-wheel, said star-wheel in its rotation intermittently disengaging said pawl from the pinion coöperating therewith.

1,387,582. HAMMER. ANTONIO BERGAMINI, North Haven, Conn. Filed Mar. 21, 1921. Serial No. 453,993. 3 Claims. (Cl. 254—26.)



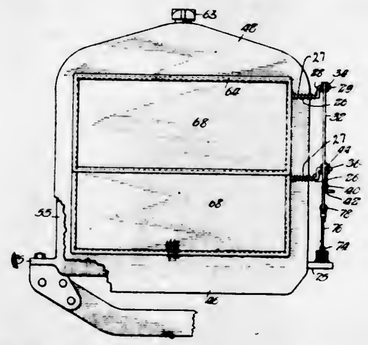
1. A hammer of the claw type having a head provided with a transverse slot and with a vertical opening, a cam located in said opening, a pair of jaws pivotally connected with the said head and extending into said slot and adapted by the inward movement of the cam to have their outer ends forced together.

1,387,583. AUTOMATIC FUEL CONTROL. GEORGE N. BLANCHARD, San Francisco, Calif., assignor to Colmar Burner Co., Inc., San Francisco, Calif., a Corporation of California. Filed Jan. 31, 1920. Serial No. 355,361. 8 Claims. (Cl. 158—53.)



5. In a device of the character described, the combination of a burner, a generator tube overlying the same and subjected to the heat of said burner and adapted to form a passage for a fluid fuel discharging into said burner, a valve for controlling the supply of fuel to the generator tube, a spring for normally maintaining said valve closed, and a thermostat subjected to a temperature corresponding to that of the generator tube and opposing the pressure of said spring for operating said valve to open on the generator tube attaining a generating temperature.

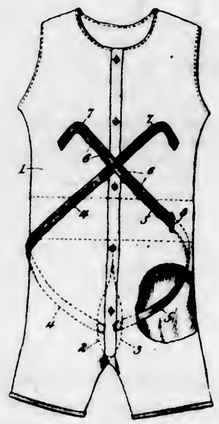
1,387,584. ADJUSTABLE VENTILATOR-HOOD FOR AUTOMOBILES. EDWARD BOWMAN, Dubuque, Iowa. Filed Oct. 27, 1919. Serial No. 333,543. 7 Claims. (Cl. 257—132.)



5. In mechanism of the class described, a main frame, a plurality of door frame mechanisms pivoted on the

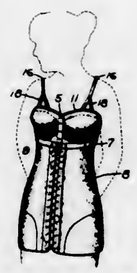
main frame, a reciprocating bar in pivotal connection with one of said door frame mechanisms so that reciprocating the bar operates that particular door frame, a pin and slot connection between said bar, and another of the door frame mechanisms whereby the bar may reciprocate without removing said door frame, and means for detachably rigidly connecting the second door frame mechanism to the bar.

1,387,585. UNDERWEAR. SANFORD S. BOYD, Laurens, S. C. Filed July 12, 1920. Serial No. 395,643. 1 Claim. (Cl. 2—144.)



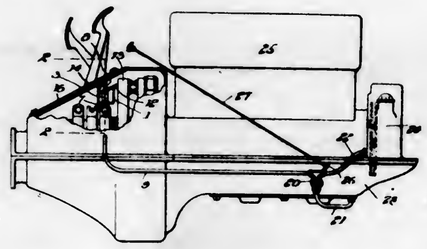
In an undergarment having an opening in the rear thereof, a closure for said opening, a tape stitched on the outside of the closure at the longitudinal center thereof and having button-holes formed in its free end; said tape encircling the body of the wearer and extending upwardly outside the undergarment, a second tape stitched on the inside of the closure adjacent the first tape and having button-holes in its free end; said tape adapted to extend upwardly on the inside of one leg portion of the garment to the waist-line thereof and further adapted to pass through a slot in the waist-line of the garment and continue upwardly outside the body portion of the garment and buttons arranged on the outside of the body portion of the garment to receive the button-holes of the free ends of the tapes.

1,387,586. BUST-PAD HOLDER. LOUISE L. BRADFORD, Allston, Mass. Filed Oct. 29, 1919. Serial No. 334,161. 1 Claim. (Cl. 2—73.)



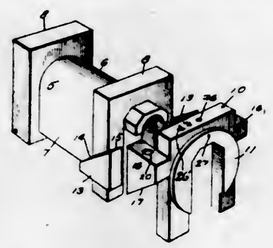
A bust pad device comprising a pliable and conformable pad holding member constructed to be drawn tightly in the vicinity of its upper and lower edges and beneath the arms, and fulled between its top and bottom edges, pad holding means within the fulled area of said holder, shoulder straps engaging the top edges of said holder, fastening devices distributed along the bottom edge of said holder to secure the latter to a corset or other article encircling the waist, the whole providing a device reliably securable against vertical displacement, said device being free from stiffening means, thereby presenting entire absence of restriction or binding of the wearer's body between the top and bottom secured edges, whereby the pad holding means, and any pads carried thereby move with the body as if a natural part thereof.

1,387,587. LUBRICANT-DISTRIBUTER FOR INTERNAL-COMBUSTION ENGINES. WILBUR L. BROWN, Santa Ana, Calif. Filed June 17, 1920. Serial No. 389,744. 1 Claim. (Cl. 184—11.)



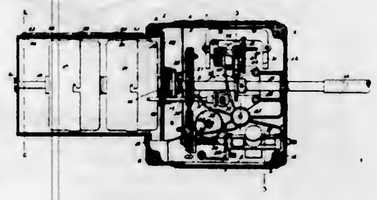
In combination with an auto vehicle engine and transmission, a lubricant trough mounted in the transmission casing to receive lubricant from the engine fly wheel, an outlet pipe leading from said lubricant trough, a valve through which said outlet pipe is connected, a second pipe leading from said valve to the engine crank case, and a third pipe leading from the valve to the timing gear casing, said valve when open permitting the lubricant to pass from said outlet pipe through said second and third pipe into the crank case and the timing gear casing, and when closed shutting off the lubricant from the outer pipe through the second pipe into the crank casing by allowing the lubricant to flow from the valve into the timing gear casing.

1,387,588. REMOVABLE BEARING-PLATE. BUEL H. CANADY, Winslow, Ariz. Filed Aug. 14, 1920. Serial No. 403,500. 4 Claims. (Cl. 64—25A.)



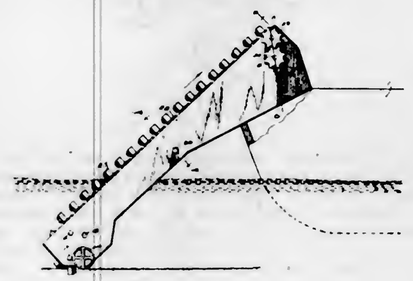
2. The combination with a journal box having a flange near one end, of laterally extending lugs secured to the flange and extending longitudinally beyond one face of the flange for a substantial distance, said lugs having upper inclined faces extending throughout substantially their entire length and substantially vertical openings, a vertically movable bearing plate to engage the flange, laterally extending lugs carried by the bearing plate and extending longitudinally beyond one face of the bearing plate for a substantial distance, said second named lugs having lower inclined contact faces extending throughout substantially the entire length of the lugs and adapted to engage the first named inclined faces, the second named lugs having substantial vertical openings, and bolts passing through the openings of the first and second named lugs.

1,387,589. SPRING-MOTOR. PLINY CATUCCI, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Filed June 8, 1918. Serial No. 238,982. 18 Claims. (Cl. 185—37.)



13. In a talking machine, driving means comprising one or more units, a covering for said driving means, the dimensions of said covering being variable with the number of power units used.

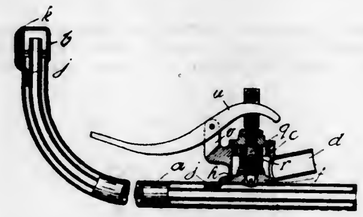
1,387,590. CLAM-DIGGER. WILLIAM D. COLLIER, Marco, Fla. Filed May 29, 1920. Serial No. 385,207. 6 Claims. (Cl. 37—24.)



1. A clam digger comprising an inclined frame, a plurality of shafts journaled in said frame, an endless conveyer mounted on said shafts, two of said shafts being arranged to cause the conveyer to travel in a plane substantially parallel to the frame during the greater portion of its movement, a lower shaft disposed in the same vertical plane with the lower of said two shafts, whereby the conveyer is caused to travel in a vertical plane during a portion of its movement, digging elements secured to said conveyer, and means for supporting said conveyer during its return flight.

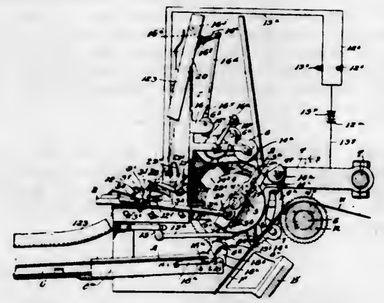
1,387,591. BLOWPIPE-BURNER. WILLIAM JAMES COOPER, Smethwick, England. Filed Nov. 5, 1919. Serial No. 335,828. 2 Claims. (Cl. 158—27.4.)

1. A blow pipe burner comprising in combination a valve chamber secured directly on the blow pipe, a gas supply pipe leading into said chamber, a closure plate for the top of the chamber and a valve seating at the bottom communicating directly with the blow pipe, a valve in the chamber having a stem projecting through the said closure plate for engagement by a hand lever, and a rubber sleeve spring around the stem and in compression between the valve and the closure plate to seat



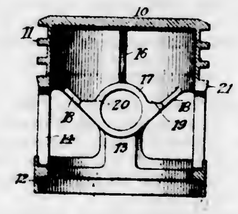
the valve and to act as a stuffing box to prevent leakage of the gas.

1,387,592. ADDRESSING APPARATUS. PAUL F. COX, Chicago, Ill. Filed May 21, 1920. Serial No. 383,240. 54 Claims. (Cl. 101—53.)



1. In a machine of the character specified; the combination of a feed chute, means for ejecting slugs therefrom, a rotary carrier adjacent the feed chute adapted to take an ejected slug and carry same past the printing point; a clamp on the carrier adapted to clamp said slug flatwise; with a rotatable cam mounted on the carrier, and means for rotating the cam on its axis as it is carried around by the carrier to permit the said clamp to engage the slug when it is taken by the carrier and to cause it to release the slug after the printing operation.

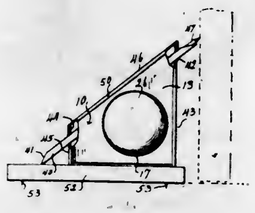
1,387,593. LIGHT-WEIGHT PISTON OF SKELETON CONSTRUCTION. CLARENCE G. CRISPIN, East Berwick, Pa. Filed Aug. 11, 1920. Serial No. 402,833. 4 Claims. (Cl. 74—108.)



1. In a piston, the combination of a body portion having openings in the walls thereof, and wrist pin bosses having lower substantially flat and extended surfaces disposed

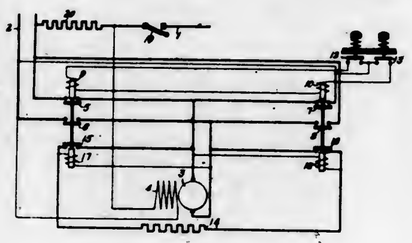
at an angle to the vertical for deflecting lubricating oil splashed from below laterally through the said openings onto the walls of the cylinder.

1,387,594. COMBINED BURGLAR LOCK AND ALARM. ANDREW S. CUMMINGS, Tacoma, Wash. Filed Aug. 7, 1920. Serial No. 402,008. 5 Claims. (Cl. 116—13.)



1. A safety locking device for doors comprising a supporting frame adapted to be disposed upon a door and having spikes extending longitudinally through the frame at an inclination to the horizontal, the spikes being sharpened at opposite ends and being longitudinally adjustable through the frame each independently of the other.

1,387,595. CONTROL SYSTEM. RAY E. DE CAMP, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 6, 1919. Serial No. 336,012. 9 Claims. (Cl. 172—179.)

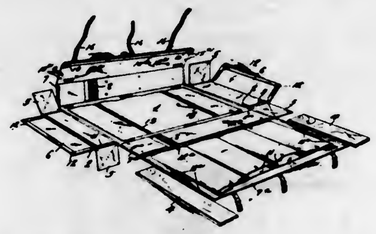


2. In a motor-control system, the combination with an electric motor and a controlling switch therefor, of means for retaining said switch in its open position when the voltage across the armature of said motor exceeds a predetermined value, said means comprising a coil in shunt relation to said motor armature and which is energized only when said switch is in its open position.

1,387,596. DYESTUFFS AND PROCESS OF MAKING THE SAME. GUILLAUME DE MONTMOLLIN and HEINRICH JOSEPH SPIELER, Basel, Switzerland, assignors to "Society of Chemical Industry in Basle," Basel, Switzerland. Filed Sept. 21, 1920. Serial No. 411,737. 10 Claims. (Cl. 8—1.)

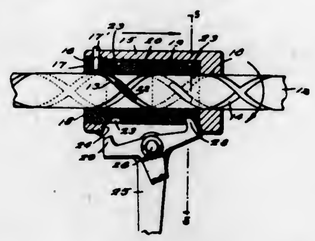
1. The herein described process for the manufacture of new dyestuffs consisting in reacting with a tetrahalogenmethane on an alphanaphtholic compound having its 4-position not substituted, in presence of an agent capable of combining with acids and of a catalyst.

1,387,597. COLLAPSIBLE SUITCASE. CHARLES A. FETTERS, Washington, D. C. Filed Jan. 21, 1921. Serial No. 438,890. 5 Claims. (Cl. 190—43.)



1. A collapsible suitcase formed from pliable material, the top and bottom of said suitcase being provided with stiffening means, the ends of said suitcase being provided with removable stiffening members thereby allowing the case to be rolled into a compact package.

1,387,598. ACTUATING DEVICE FOR WINDSHIELD-CLEANERS. WILLIAM M. FOLBERTH, Cleveland, Ohio. Filed Dec. 13, 1919. Serial No. 344,628. 4 Claims. (Cl. 74—40.)



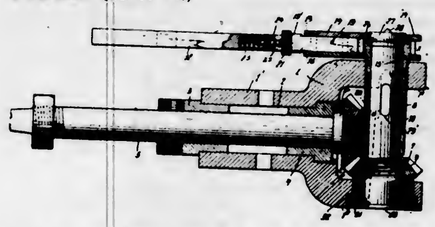
1. In a motor for windshield cleaners and the like, a rotatably mounted shaft provided with a pair of oppositely disposed spirals, a supporting member slidably mounted on said shaft, a driven element secured to said supporting member, a pair of sleeves mounted in said supporting member, a substantially T-shaped lever pivotally mounted on said supporting member, said T-shaped lever being adapted to alternately engage said sleeves and lock them against rotation, each of said sleeves being provided with a lug engaging one of said spirals, a longitudinally shiftable bar connected to said T-shaped member and adapted to move it on its pivot to disengage one of said sleeves and to engage the other of said sleeves, and means for moving said bar to operate said T-shaped member.

1,387,599. RULE. HARRY KEEPERS GROUT, Muscatine, Iowa. Filed Jan. 29, 1920. Serial No. 354,926. 5 Claims. (Cl. 33—127.)



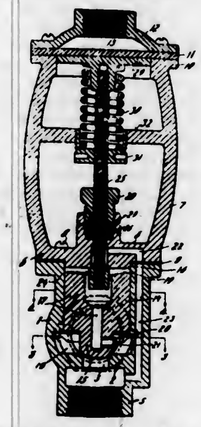
1. A computing rule comprising a flat elongated stick of a standard length, said stick being provided with transverse ribs or projections on its working face at predetermined locations intermediate its length and at the opposite ends, said stick having its working face provided with measure designations and with a computing chart, and a transparent protective covering for said chart secured upon the stick whereby a smooth surface is presented over which the material to be measured may be laid, the ribs extending above the working face of the stick throughout their length and extending from one edge across to the other.

1,387,600. ANGULAR DRILL. PER F. HOLMGREN, Brooklyn, N. Y. Filed May 29, 1919. Serial No. 300,684. 5 Claims. (Cl. 77—7.)



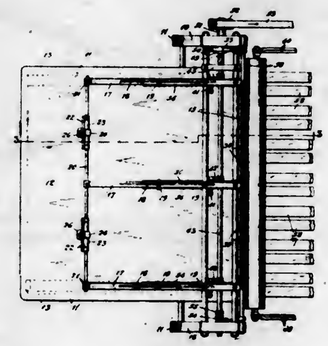
1. A drilling device comprising a spindle adapted to carry a drill, a shaft extending at an angle to said spindle and operatively connected thereto, a yoke carrying said shaft and spindle and forming an abutment and a support for the latter a sleeve freely surrounding said spindle and threaded into said yoke, means carried by said sleeve adapted to engage an abutment for the drilling device and means for rotating said sleeve.

1,387,601. VALVE. HUGH W. KIMES, Dayton, Ohio, assignor to The Valle-Kimes Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 5, 1916. Serial No. 76,324. 6 Claims. (Cl. 103—98.)



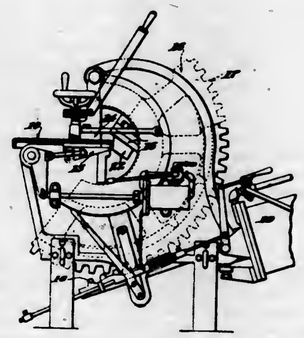
2. In a water supply system, a valve under the control of the pressure developed by the pumping apparatus thereof and for controlling the operation of said pumping apparatus, said valve comprising a casing providing a piston chamber having a valve seat, said casing having a water supply inlet of said system and a water supply outlet thereof at opposite sides of said valve seat, a piston slidable in said chamber and having a reduced valve end to take against said valve seat, said piston having a passage therethrough communicating at one end with said water supply inlet, a by-pass in said casing communicating with said water supply outlet, said by-pass adapted to communicate with the passage through the piston, a pilot valve for controlling the communication between said by-pass and said piston passage, and means for controlling said pilot valve by pressure of water from a source other than that of said water supply.

1,387,602. PAPER-CATCHER. LOUIS LA VECK, Brooklyn, N. Y., assignor to Paul H. Horwitt, Brooklyn, N. Y., and himself. Filed Oct. 22, 1920. Serial No. 418,852. 4 Claims. (Cl. 271—89.)



1. In a paper catcher, means for stacking sheets of material comprising a rock-shaft, a member carried thereby, a slide-shaft, a connection between said rock-shaft and slide-shaft and means for reciprocating said slide-shaft whereby said rock-shaft is actuated to vibrate said member.

1,387,603. FLANGING-MACHINE. HUGH MCCABE, Lawrence, Mass. Filed July 3, 1919. Serial No. 308,513. 8 Claims. (Cl. 153—16.)

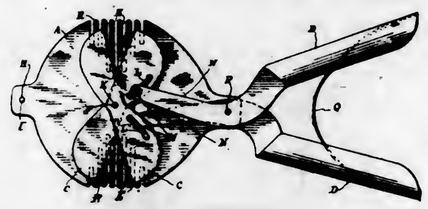


1. A flanging machine having, in combination, an anvil over which the flange is turned, means for holding the work against the anvil, and a bender having two work engaging faces arranged at an angle to one another, the bender being movable in a path of such curvature that the apex of the angle formed by said faces moves on a surface concave with respect to the corner of the anvil.

1,387,604. HAIR-CUTTING MACHINE. HENRY L. MENDAL, Baltimore, Md. Filed May 3, 1920. Serial No. 378,669. 5 Claims. (Cl. 30—13.)

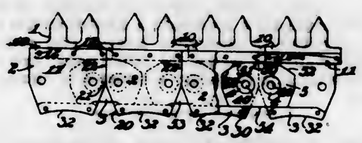
1. In a hair cutting machine; comprising a pair of comb-plates; a pair of adjustable slotted shear blades pivoted between said comb-plates by a bolt; a pair of lever-handles transfixed between one side of the comb-plates by means of a bolt through same, said lever-handles being provided at one end of each, with a pivot; said pivots

being adapted to engage the slots in said shear-blades to actuate same, said lever-handles being further provided



with an adjustable spring-plate adapted to operate between the hollow sections of said lever-handles, for a purpose specified.

1,387,605. CHAIN SAW. GEORGE MEYER, Seattle, Wash., assignor to Lena Meyer, Seattle, Wash. Filed July 27, 1920. Serial No. 399,373. 4 Claims. (Cl. 143—135.)



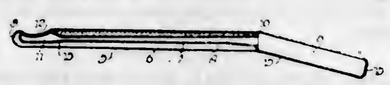
1. A chain saw comprising one set of links each composed of a toothed plate, two side plates overlapping the inner edge of the toothed plate and a filler plate between the opposite edges of the side plates, and another set of connecting links entering between the side plates, pivots connecting the connecting links and said side plates, the inner edge of the toothed plate and the outer edge of the links being engaged at the ends of said toothed plates when the chain sections are in a straight line, the outer edge of the connecting links having a curved sector which maintains substantial engagement with the inner edge of the toothed plate when the chain bends inward and a tangent extending from said curved sector and engaging the inner edge of the toothed plate to limit the inward bending of the chain.

1,387,606. THREAD-WAXING DEVICE. WILLIAM C. MEYER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Feb. 7, 1916, Serial No. 76,721. Patent No. 1,341,065. Divided and this application filed Nov. 4, 1918. Serial No. 260,943. 8 Claims. (Cl. 91—32.)



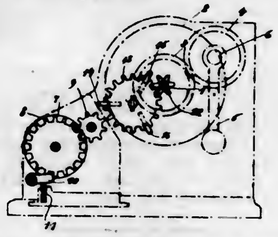
2. A wax stripping device having, in combination, two peripherally engaging rolls between which the thread passes, means for holding the rolls from rotation, and means for supporting one of the rolls for yielding movement toward and from the other roll.

1,387,607. THERAPEUTIC APPARATUS. WILLIAM MEYER, Chicago, Ill. Filed June 24, 1920. Serial No. 391,273. 12 Claims. (Cl. 174—89.)



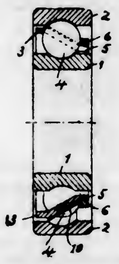
1. An electrode having, in combination, insert and handle end portions, separated by an intermediate portion, telescoped tubes with closed inner ends, forming said intermediate and insert end portions, the inner tube being enlarged to hermetically seal the other tube, and extending beyond the same to form the handle end portion.

1,387,608. CALCULATING-MACHINE. VALENTIN JAKOB ODHNER, Stockholm, Sweden. Filed June 11, 1919. Serial No. 303,412. 1 Claim. (Cl. 235—73.)



Mechanism for indicating the number of operations of a machine comprising an element operated the same distance at each operation of the machine, a reducing gear wheel connected thereto, a larger gear wheel engaging the reducing gear and having projecting teeth, the ratio of said gearing being so adapted that the larger gear is turned for only a portion of a revolution during a complete revolution of said element, an indicator, a wheel normally out of gear with the other gear wheels but operable by the projecting teeth at each operation of the machine to operate the indicator whereby the indicator may be gently moved without over throw and only at the end of the operation of the machine.

1,387,609. BALL-BEARING. JOHAN ABRAHAM OHLSSON, Stockholm, Sweden, assignor to Klosters Aktie Bolag, Stockholm, Sweden, a Corporation of Sweden. Filed Oct. 23, 1918. Serial No. 259,329. 3 Claims. (Cl. 64—59.)



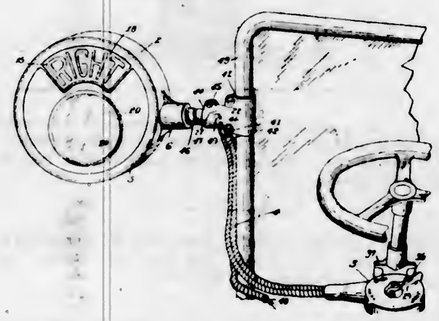
1. In a ball bearing the combination with inner and outer rings and a plurality of balls of a ball cage constructed of relatively flat material and arranged in the form of a conical ring having its edge portions lying in parallelism of the axis of the ring and provided with a plurality of recesses each of which communicate with one of the edges for permitting of the insertion of balls therein, the edge portions of the ring being positioned to insure of proper action of the balls, and a retaining ring engaging the small edge portion of the conical ring for preventing displacement of the balls.

1,387,610. WINDOW-SHADE BRACKET. PETER J. OTHS, East Haven, Conn. Filed June 9, 1921. Serial No. 476,185. 3 Claims. (Cl. 156—24.)



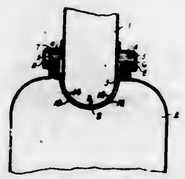
3. A window shade bracket comprising a housing, adapted to be secured in position, formed on opposite sides with vertical slots, a window shade bracket having an arm extending through said slots, a latch engaged with one side of said housing, formed with clearance-slot for said arm, and with a finger, the adjacent faces of said finger and arm roughened, said latch also formed with a nose adapted to hook over the opposite side of said housing.

1,387,611. AUTOMOBILE-SIGNAL. FRANK PEKAR, Bridgeport, Conn. Filed Mar. 16, 1921. Serial No. 452,817. 7 Claims. (Cl. 116—49.)



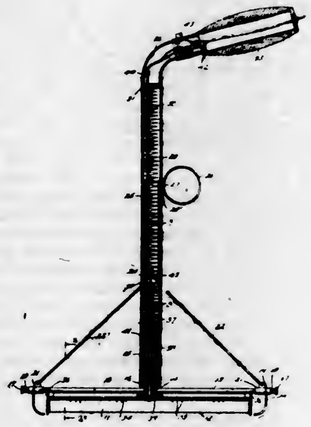
1. In a signaling device, a casing, a signal disk rotatably mounted in the casing, a sheave fast on the disk, a flexible cable fast around the sheave with the ends secured thereto, a second flexible cable passed around the sheave in the opposite direction to the other cable with its end fast thereto, whereby alternate draft on these cables will oscillate the signal disk in the casing, a control member, a sheave rotatable in the control member, one of said cables having its other end passed around the latter sheave and secured thereto, said second cable having its other end passed around the control sheave in the opposite direction to said cable and secured thereto, a tubular guide connecting the signal casing and the control member arranged to receive said cables for passage therethrough, whereby swinging of the control sheave will oscillate the signal in the casing, said guide member being extensible to tension the cables.

1,387,612. OIL-CAN. JOHN WILLIAM PEPPERS, Calgary, Alberta, Canada. Filed Aug. 13, 1919. Serial No. 317,158. 1 Claim. (Cl. 221—44.)



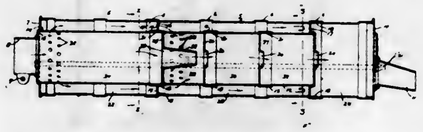
In an oil can, the combination of a spout having its lower end closed except for orifices, which said spout is mounted in a base provided with orifices similar in size and number to those in the lower end of the spout, the said spout having limited rotary motion within the said base, so that the orifices may be made to correspond with those in the said base, a cylindrical jacket around the spout formed by turning up the base, a coil spring within the said hollow jacket one end of which spring is secured to the spout and the other end passing through an orifice in the upper end of the cylindrical body of the base and engaging in holes in a covering member secured around the spout of the oil can to operate the spout for automatically cutting off the flow of oil from the container, and means for securing the base to the oil container, all substantially as described.

1,387,613. ICE-CREAM-SANDWICH MACHINE. RUSSELL H. PROPER, New York, N. Y. Filed Apr. 2, 1920. Serial No. 370,736. 5 Claims. (Cl. 107—1.)



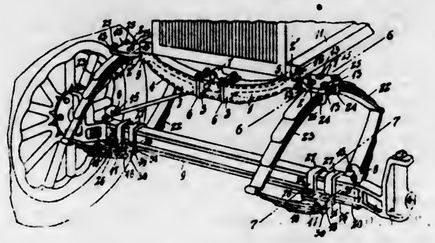
1. A device for making ice cream sandwiches comprising a mold, means to manipulate the mold into and out of a mass of ice cream, said mold being adapted to receive first an ice cream biscuit against one face of which a film of ice cream is received and delivered in the mold from the mass, and means movable over the biscuit and ice cream film to retain the same within the mold during the withdrawal of the device from the mass.

1,387,614. MUFFLER. DAVID REID, Buffalo, N. Y. Filed Feb. 27, 1919. Serial No. 279,661. 12 Claims. (Cl. 137—160.)



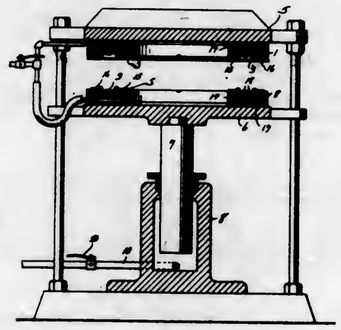
1. A muffler comprising an outer cylinder provided with a plurality of circumferentially arranged corrugations, heads for the outer cylinder, an inner cylinder, a plurality of plates mounted within the corrugations of the outer cylinder for supporting the inner cylinder and for dividing the outer cylinder into a plurality of expansion chambers, and means for dividing the inner cylinder into a plurality of expansion chambers.

1,387,615. ATTACHABLE VEHICLE-SPRING. ELMER R. RITTER, Cincinnati, Ohio. Filed Dec. 26, 1919. Serial No. 347,534. 10 Claims. (Cl. 267—36.)



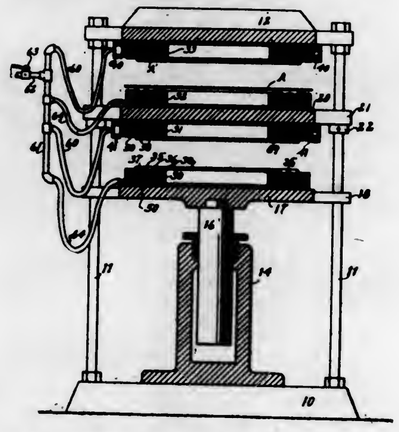
10. In combination with a full-elliptical vehicle-spring, a bolster element adapted to fit in a channeled vehicle bolster and to extend out past one end of said channeled bolster with its inner end extending not quite to a point midway of the length of said channel, and having a foot near said inner end with its lower side notched to receive the transverse part of a clip embracing the bolster element and the channeled bolster, whereby said bolster element is anchored by said clip, and said outwardly extending part having a lower bearing surface extended in opposite directions to lie along the top of the vehicle spring, and curved to fit the top of the spring part, means to embrace the spring part and engage with said outwardly extending part, for holding said bolster element and said spring together, an anchor-plate having a lateral extension with an opening, to lie against the under side of the vehicle axle with said extension receiving anchoring means through its opening, and having a lower bearing surface extended from opposite sides of said anchor-plate to lie along the upper side of the bottom of said spring, and curved to ... said upper side, and a clip straddling the bottom of said spring and secured to said anchor plate, for holding said spring bottom to said anchor plate.

1,387,616. APPARATUS FOR MAKING PNEUMATIC INNER TUBES. FRED THOMAS ROBERTS, Cleveland, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Sept. 15, 1919. Serial No. 323,851. 34 Claims. (Cl. 18—35.)



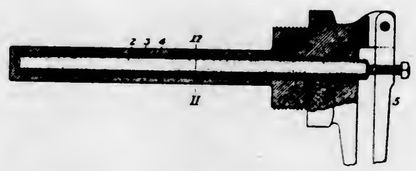
1. In an apparatus of the character described, the combination of a pair of coöperating mold members each having a single cavity and each having an annular clamping groove surrounding the cavity, and means for applying suction to said groove.

1,387,617. APPARATUS FOR MAKING HOLLOW RUBBER ARTICLES. WILLIAM E. ROBERTS, Andover, Mass., assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Dec. 29, 1919. Serial No. 348,093. 28 Claims. (Cl. 18—19.)



1. In an apparatus of the class described, the combination of a press, a mold adapted to be operated thereby, and means for so supporting the mold that it may be inverted when desired.

1,387,618. THERMOSTAT. FREDERICK W. ROBERTSHAW, Pittsburgh, Pa. Filed June 3, 1920. Serial No. 386,218. 2 Claims. (Cl. 297—14.)



2. A thermostat comprising a non-expansible element consisting of a carbon rod, an expansible metal element surrounding said rod, and a protective covering for said rod interposed between the said elements, said covering consisting of a metal which will prevent chemical reaction between said elements, substantially as described.

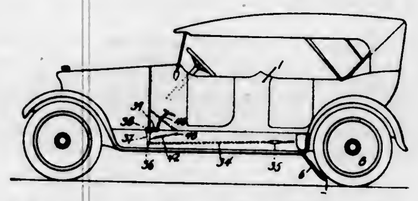
1,387,619. SEWING-MACHINE. MORRIS G. ROSENTHAL, Cincinnati, Ohio. Filed July 26, 1919. Serial No. 313,546. 4 Claims. (Cl. 112—104.)



1. The combination in a sewing machine, of a reciprocating needle, a manually manipulated work shoe having label opening therein, and a frame-like label holder coacting with said work shoe to clamp a label, a needle plate having a needle hole therein, and a bushing for said needle hole tapered downwardly to a relatively small throat toward its lower end, said bushing being disposed with its upper end projecting above the face of the needle plate, within the label opening of said work shoe to support the work at the stitching point, said needle and label holder being arranged so that the needle reciprocates within the said label holder.

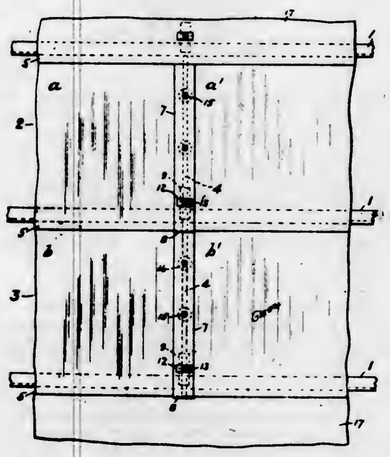
3. The combination in a sewing machine of a reciprocating needle, and a needle plate having a needle hole therein provided with a bushing for said needle hole tapered downwardly to a relatively small throat and upwardly beveled to said throat.

1,387,620. SANDING DEVICE FOR AUTOMOBILES. PAUL R. SHAILER, Washington, D. C. Filed Aug. ..., 1920. Serial No. 401,931. 1 Claim. (Cl. 291—36.)



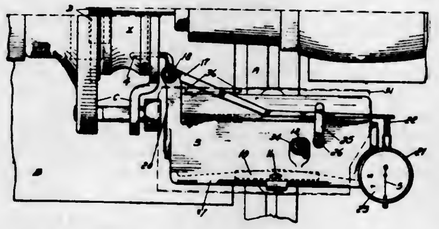
A sanding device, comprising a hopper having an exit, a removable top for said hopper, carrying a depending, open-ended tubular member, a valve controlling the escape of sand through said exit and carrying a valve stem slidable in said tubular member, and projecting through said top, said projecting end being provided with rack teeth, a gear meshing with said rack teeth, and means for rotating said gear through the arc of a circle.

1,387,621. GLASS ROOFING OR WALL. ARNO SHUMAN, Philadelphia, Pa., assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa., a Corporation of New Jersey. Filed Nov. 25, 1918. Serial No. 263,983. 6 Claims. (Cl. 108—10.)



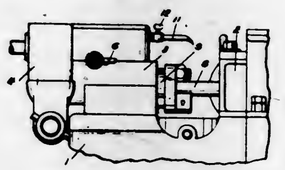
1. In glass roofing or walls the combination of rows of glass sheets laterally unsupported and arranged edge to edge with space between and horizontally lapped at their ends, the bottom sheet constituting the sole support for the top sheet, a horizontal purlin underlying the lapped portions and directly supporting the sheets at their lapped ends, batten strips covering said space and lapped over the purlin, a clip resting on the top edge of the purlin and having a heel engaging the underface thereof and a toe underlying the lap, a saddle on the batten strip, and a single bolt disconnected from the purlin and connecting the toe and the saddle and arranged through the space and passing through the batten strip, substantially as described.

1,387,622. MEASURING INSTRUMENT. CHARLES B. SIMMONS and FREDERICK G. HUGHES, Bristol, Conn., assignors to The New Departure Manufacturing Company, Bristol, Conn., a Corporation of Connecticut. Filed Sept. 11, 1916. Serial No. 119,335. 15 Claims. (Cl. 33—172.)



1. In a measuring instrument, a support, measuring-device-carrying means carried by said support, means connecting said first named means to said support for both longitudinal and oscillative movement with respect thereto, means automatically operable during one of said movements for clamping said carrying means to said support, and a measuring device carried by said carrying means; substantially as described.

1,387,623. HIGH-PRESSURE PUMP. KARL D. SMITH, Battle Creek, Mich., assignor to Union Steam Pump Company, Battle Creek, Mich. Filed May 13, 1919. Serial No. 296,898. 2 Claims. (Cl. 103—77.)

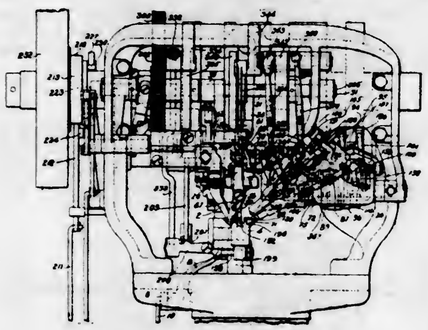


1. In a pressure pump, the combination of a plurality of integrally formed cylinders disposed side by side and having valve casings formed integrally therewith, a cooling tank above said cylinders, said cylinders and valve casings constituting walls of said tank, piston rods, packing glands for said piston rods, and a series of drip pipes projecting from said tank over said piston rods to drip water thereon, said pipes being provided with valves for the purpose specified.

1,387,624. THREAD-HANDLING MACHINE. WILLARD A. SMITH, Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 8, 1916. Serial No. 96,126. 38 Claims. (Cl. 112—35.)

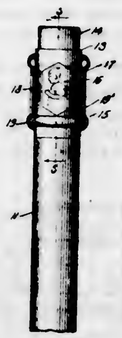
1. A thread handling machine, having, in combination, work positioning members, a needle, mechanism for actuating the needle to pass two spaced loops of thread through the work, means for gripping the first loop of

thread, devices for engaging with one side of the first loop of the thread between the gripping member and the work and means for actuating said devices to twist the thread to form a closed loop therein, means for position-



ing the loop thus formed in the path of the needle to cause the second loop to be passed therethrough, and means for passing the first loop of thread through the second loop beyond the encircling loop.

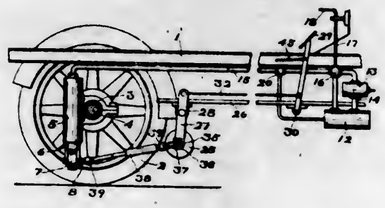
1,387,625. CHANGEABLE EXHIBITOR. WILLIAM L. STEIN, New York, N. Y., assignor of one-half to Edward A. Stein, New York, N. Y. Filed Oct. 21, 1920. Serial No. 418,477. 1 Claim. (Cl. 40—68.)



An exhibitor attachment for pencils, comprising a tubular body on the upper end of a pencil bearing upon its outer face characters, said tubular body being provided on its outer face with a bead in a plane at right angles to the longitudinal axis thereof, and a sleeve rotatably mounted upon said tubular body having a sight opening in alinement with said characters, said sleeve being provided in its inner face with a groove in which said bead is seated, said sleeve being also provided with a longitudinal slot adjacent its groove to permit of a mounting thereof on said tubular body.

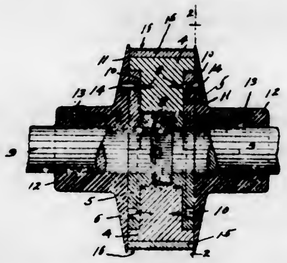
1,387,626. PARKING-DEVICE ATTACHMENT FOR AUTOMOBILES. ANDREW W. SWANSON, Seattle, Wash. Filed July 15, 1920. Serial No. 396,396. 2 Claims. (Cl. 180—1.)

2. In a wheeled vehicle of the class described, in combination with a vehicle axle, cylinders mounted on said axle adjacent its opposite ends, pistons mounted in said cylinders and extendible downwardly therefrom, rollers mounted at lower ends of said pistons, means for forcing a pressure medium into said cylinders to actuate the pistons outwardly to raise and support the vehicle on said rollers, hangers pivotally fixed to the vehicle frame, friction rollers mounted on said hangers movable into engagement with the driving wheels of the vehicle, telescop-



ing shaft sections operatively connecting said friction wheels with said rollers whereby operation of the former will actuate the rollers to move the vehicle in a lateral direction, lever mechanism operable to move the hangers to cause the friction rollers to engage or disengage the driving wheels, and means for controlling the admittance of the pressure medium into and from the cylinders.

1,387,627. EDGE-SCOURING ROLL. GEORGE ORVILL TERRY, Minneapolis, Minn., assignor to Economy Shoe Machinery Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 7, 1920. Serial No. 408,608. 6 Claims. (Cl. 51—194.)

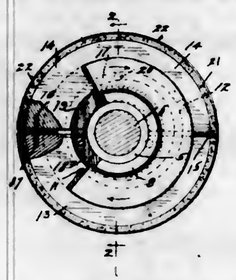


1. An edge scouring roll comprising laterally spaced axially alined rigidly connected rotary hub flanges, at least one of which has a lateral cam projection, and a split scouring wheel one section of which is rotatively mounted between said flanges and the other section of which is movable to and from working position and is provided on at least one side with a cam surface, which under rotation of the closed wheel coöperates with said cam projection to lock the two wheel sections together.

1,387,628. HEEL-SCOURING ROLL. GEORGE ORVILL TERRY, Minneapolis, Minn., assignor to Economy Shoe Machinery Company, Minneapolis, Minn., a Corporation of Minnesota. Filed Sept. 7, 1920. Serial No. 408,609. 2 Claims. (Cl. 51—194.)

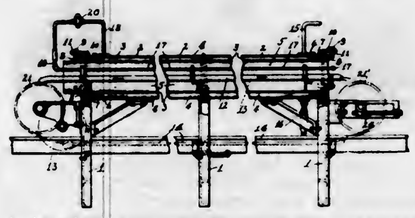
1. A heel scouring roll comprising a rotary hub member, relatively fixed and movable hub flanges on said hub members, at least one of which has a face cam surface with a peripheral entrance notch, and a split scouring wheel one section of which has metallic rings set flush into the sides thereof and by means of which it is rotatively mounted on said hub member and the other of which is movable to and from said hub member, and is provided on at least one side with a cam projection that

is movable through the entrance notch of said cam surface, and under rotation of the closed wheel on said hub



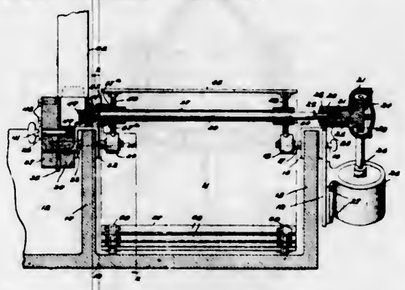
coöperates with the said cam surface to lock said wheel sections together, said wheel sections being connected at one side by a hinge.

1,387,629. EXHAUST-BOX. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed Apr. 30, 1919. Serial No. 293,588. 7 Claims. (Cl. 126—272.)



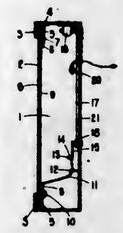
1. An exhaust box comprising concentric spaced metallic pipes, means for admitting steam to the space between the pipes, a perforated pipe communicating with the space between the first-mentioned pipes and extending through the length of the inner pipe, means in said perforated pipe for controlling the passage of steam therethrough, and means for conveying cans through the inner pipe.

1,387,630. WASHING-MACHINE. JOHN N. THORNTON, New Britain, Conn. Filed Sept. 11, 1920. Serial No. 409,612. 14 Claims. (Cl. 68—37.)



1. In a washing device adapted to be applied to and used with a tub, the combination with an endless longitudinally flexible washing belt pervious to water of rotary means for supporting and driving said belt, means for mounting said supporting and driving means in fixed position slightly above and across the top of the tub, the said belt being of such length as to hang down in said tub toward its bottom in an expanded loop and rollers in a line parallel to said supporting means but removed therefrom a material distance laterally along the top of the tub over which the side edges of the belt pass to expand the loop.

1,387,631. METHOD OF AND MEANS FOR PRODUCING AN OPTICAL ILLUSION. PERCY THOMAS TIBBLES, London, England. Filed Oct. 27, 1920. Serial No. 419,930. 4 Claims. (Cl. 40—102.)



1. A method of producing an optical illusion by changing the picture design or like effect characterized by the fact that semi-transparent mask or masks are gradually moved toward and away from the picture and between the picture and a source of light, substantially as described.

1,387,632. PRESSED-STEEL DETACHABLE WHEEL. GEORGE WILLIAM WATSON, London, and NEVILLE BROUGHTON LUDLOW, Worcester, England. Filed June 2, 1920. Serial No. 385,978. 5 Claims. (Cl. 301—63.)

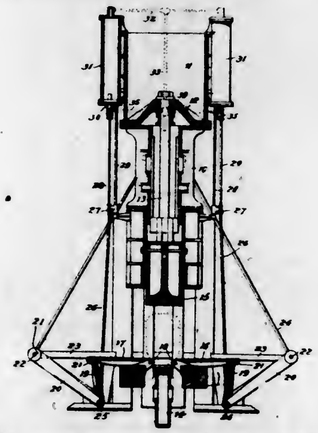


1. A detachable disk wheel comprising in combination, two dished wheel parts, each of which has at its outer periphery a flange to accommodate the edge of a tire, and each formed with an opening in the disk portion to accommodate the tire valve, the wheel parts being shaped to contact one with the other completely around the margins of the valve opening, and also around the peripheries of the disks, but to be spaced apart at the hub, and means for securing the wheel parts face-to-face to contact one with the other in said manner, said securing means comprising two sets of securing devices, one arranged near the periphery of the wheel, and the other near the hub thereof, substantially as described.

1,387,633. COTTON-COMPRESS. ROBERT D. WEBB, Minden, La. Filed Feb. 2, 1918. Serial No. 215,159. 4 Claims. (Cl. 100—19.)

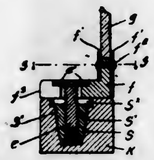
1. In a cotton compress of the class described, the combination with upper and lower platens and means

for moving them relatively, of two movable plates for pressing the sides of a bale located between the platens, separate cylinders and pistons for operating said plates, respectively, and valve means for simultaneously admitting motive fluid to said cylinders, simultaneously exhausting it from said cylinders, and simultaneously bringing the ends of said cylinders into communication, whereby the plates are caused to move toward and from each other simultaneously.



4. In a cotton compress of the class described, the combination with upper and lower platens and means for moving them relatively, of two movable plates for pressing the sides of a bale located between the platens, separate cylinders and pistons for operating said plates, respectively, and valve means for simultaneously admitting motive fluid to said cylinders, at corresponding ends and at the same time simultaneouly exhausting steam from said cylinders through passages restricted in size relatively to the steam inlet passages.

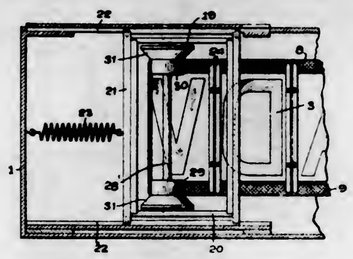
1,387,634. SECURING MEANS FOR INCLOSURES FOR AUTOMOBILE-TOPS. HARRY E. ADAMS, New York, N. Y. Filed Aug. 5, 1919. Serial No. 315,558. 3 Claims. (Cl. 296—103.)



1. Securing means for automobile top closure sashes, comprising a screw nut socket member countersunk in the car sill, a recessed sash base flange, and a coupling screw extending therethrough and engaging with the said screw nut socket member, the head of the said screw being countersunk in the sash base flange and bearing directly thereon when in use, and said screw nut socket member being formed with a recess adapted to receive the head of said coupling screw when the sash is removed from the sill, for the purpose set forth.

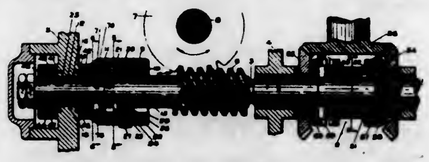
1,387,635. MOVING SIGN. JACOB AISENBERG, Corona, N. Y. Filed Sept. 10, 1919. Serial No. 322,838. 4 Claims. (Cl. 40—96.)

1. In an exhibiting apparatus, the combination of transparent flexible members having characters formed thereon, said members adapted to have relative movement with the frame of said apparatus, and supporting means for said members attached to the edge thereof



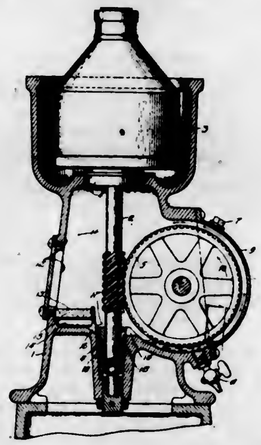
and exceeding the length of the edge to which attached for holding purposes.

1,387,636. EASY-START DRIVING AND REVERSING MECHANISM. GEORGE I. ALDEN, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Mar. 22, 1918. Serial No. 224,073. 19 Claims. (Cl. 74—36.)



4. A machine having a reciprocating member and a driving and reversing mechanism therefor, comprising a rotatable driving worm, a worm gear operatively connected with the load and driven by the worm, means to start the worm gear gradually and means whereby the load may come gradually to rest under its own momentum without material shock when the mechanism is reversed.

1,387,637. OILING SYSTEM. GUSTAF M. ANDERSSON, Waterloo, Iowa, assignor to Associated Manufacturers Company, Waterloo, Iowa, a Corporation of Iowa. Filed May 23, 1919. Serial No. 299,271. 5 Claims. (Cl. 64—56.)



5. A centrifugal separator comprising a casing having an oil reservoir at its bottom side; a bearing in said casing; a substantially vertical shaft in said bearing, there being a passage in the bearing along said shaft with one end of said passage opening in said reservoir; a well in the casing above oil in said reservoir and communicating with the other end of said passage; a wheel running in the oil of said reservoir and adapted to move said oil to said well; and a filter in the well.

1,387,638. PROCESS OF MAKING CUP AND CONE MEMBERS FOR ROLLER-BEARINGS. JEREMIAH BINGHAM, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed July 16, 1917. Serial No. 180,802. 26 Claims. (Cl. 29—156.)



1. The process of making the coacting cup and cone members of roller bearings, which consists in shaping a metal blank to form integrally connected cylindrical portions of different diameters suitable to set one within the other, forming the external surface of the smaller portion and the internal surface of the larger portion with tapered male and female bearing surfaces, respectively, and then severing the two portions adjacent to their inner ends.

1,387,639. MOLDING FOR UPHOLSTERING. JOEL D. BOLENDER and EDGAR R. CREAMER, Connersville, Ind., assignors to The George R. Carter Company, Connersville, Ind., a Corporation of Indiana. Filed Apr. 11, 1921. Serial No. 460,485. 14 Claims. (Cl. 155—184.)



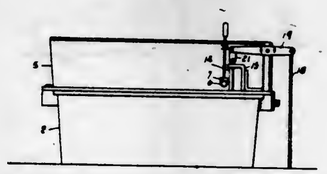
1. In a device of the character described, a flexible body arranged to be folded, and a layer of flexible stiffening substance inclosed by said body and folded therewith of a character to maintain said body in folded position.

1,387,640. PROCESS OF PRODUCING AND UNITING HEADS TO BARRELS. GEORGE C. BRAINARD, East Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Sept. 20, 1917. Serial No. 192,295. 12 Claims. (Cl. 113—112.)



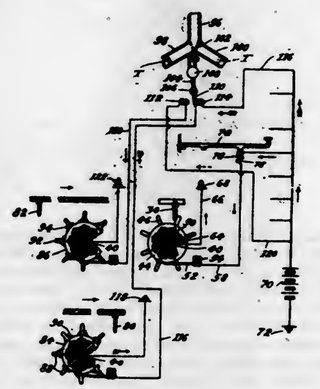
1. The process of forming a head and securing the same to a metal barrel which comprises drawing a metal blank into cup shape, telescoping the said blank to provide a skirt surrounding the side wall thereof, inserting the head thus formed within the open end of the barrel body so that the edge of said skirt abuts the edge of said barrel body and homogeneously uniting the abutting edges of said skirt and barrel body.

1,387,641. GLUING-MACHINE. FRED C. DOBBERTEEN, Sturgis, Mich. Filed Mar. 19, 1921. Serial No. 453,795. 4 Claims. (Cl. 144—280.)



1. In a gluing machine, the combination of a glue receptacle, a reciprocating glue applier support mounted in said receptacle, a plurality of rod-like glue appliers having downwardly tapered heads with concave tips mounted on said support so that they may be projected from the glue or lowered to submerge their heads, a guide bracket through which said glue appliers reciprocate, a spring for normally retracting said glue applier support, and actuating means for said support.

1,387,642. RECORDING APPARATUS. GIBSON L. DOUGLASS, Duluth, Minn. Filed Aug. 5, 1918. Serial No. 248,368. 12 Claims. (Cl. 234—12.5.)

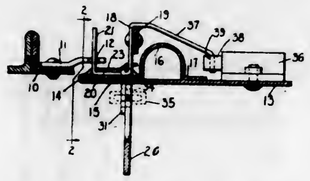


4. A recording apparatus comprising a member secured in fixed position on a vehicle, said member being adapted to hold a multiplicity of selectively positioned elements, electrical contact members located in the roadway and operable in either direction of travel of the vehicle for completing circuits corresponding to said selectively positioned elements, means connected with said contact members whereby a record identifying the vehicle may be made and a source of electrical energy for operating said means when the circuits are completed.

1,387,643. LATCH AND LOCK. AXEL F. ERICKSON and DANIEL W. SHIEK, Aurora, Ill., assignors to Allsteel-equip Company, Aurora, Ill., a Corporation of Illinois. Filed Nov. 5, 1919. Serial No. 335,838. 9 Claims. (Cl. 292—334.)

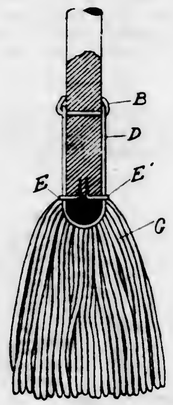
1. A latch for doors and the like comprising a longitudinally movable latch clip, a jamb-plate adapted to be engaged thereby when in latched position, means for moving said clip, and a spring element adapted to engage

said clip when the latter is out of latched position and to be disengaged therefrom through contact with said



jamb-plate, said spring element provided with an extension projecting through the door and adapted to be locked to the means for moving said clip.

1,387,644. MOP. ALEXANDER FISCHER, Jr., Cincinnati, Ohio. Filed July 9, 1919. Serial No. 309,590. 1 Claim. (Cl. 15—56.)



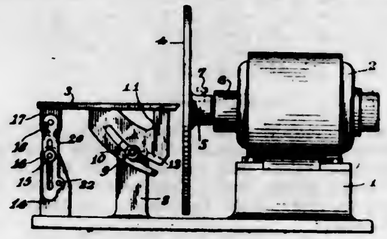
In a mop the combination of a handle, bent staples having their ends disposed within one end of the handle and having that portion intermediate the ends extending beyond the handle, a U shaped wire loop having its ends extending through the staples, eyes formed on the end of the wire loop, a cross pin extending through the handle and through the eyes formed on the ends of the wire loop, and having its ends bent upon itself to secure the wire loop, and a mop head mounted on the loop intermediate the ends thereof and being fixedly retained upon the end of the handle thereby.

1,387,645. METHOD OF AND COMPOSITION FOR CLEANING METALS. JAMES H. GRAVELL, Elkins Park, Pa. Filed Feb. 27, 1920. Serial No. 361,699. 8 Claims. (Cl. 148—8.)

1. The method of cleaning metal consisting in subjecting it to the action of an etching acid in the presence of benzol.

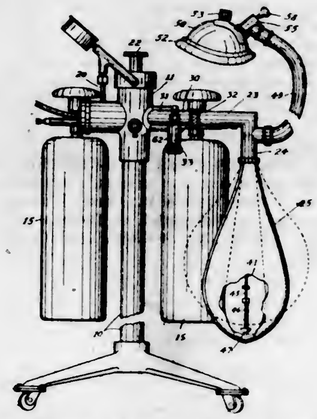
1,387,646. SURFACE-GRINDING MACHINE. JULIUS C. HANSEN, Chicago, Ill., assignor, by mesne assignments, to Hansen Grinder Company, Cook county, Ill., a Corporation of Illinois. Filed Oct. 25, 1920. Serial No. 419,508. 3 Claims. (Cl. 51—240.)

1. In a grinding machine of the class described, the combination of a grinding disk, a base provided at the inner portion with a pair of spaced upwardly extending rigid brackets, a horizontal rod connecting the brackets and provided with clamping means, a table provided at its inner portion with rigid depending arms having inclined slots to receive the said rod and engaged by the said clamping means, said table being supported at its inner



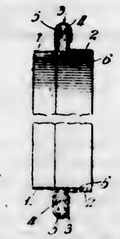
portion by the upper walls of the said slots and adjustable supporting means connecting the outer portion of the table with the base.

1,387,647. ANESTHETIZING-MACHINE. JAY A. HEIDBRINK, Minneapolis, Minn. Filed Sept. 10, 1917. Serial No. 190,525. 4 Claims. (Cl. 128—203.)



1. An anesthetizing machine comprising sources of supply of nitrous oxid and oxygen respectively, means for forming a mixture of said gases in fixed and predetermined proportions, a receptacle for receiving a predetermined quantity of said mixture in excess of a full breath of the patient, and means controlled by expansion of the receptacle caused by the inflow of mixture for cutting off such inflow of mixture when it reaches such predetermined amount in the receptacle.

1,387,648. GASKET. JOSEPH HOLLE, Newark, N. J., assignor to McCord Manufacturing Company, Inc., Detroit, Mich., a Corporation of New York. Filed Oct. 4, 1920. Serial No. 414,485. 3 Claims. (Cl. 288—1.)



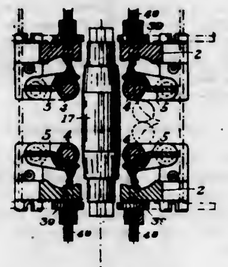
1. A gasket of the character described, comprising a metallic body portion formed to provide two tubular guide

flanges extending in opposite directions on opposite sides of an outwardly extending annular section forming a chamber to receive and retain a ring of fibrous material, and means for holding one of said guide flanges against bending inward.

1,387,649. ABRASIVE FOR GRINDING AND SMOOTHING GLASS. WILLIAM L. KANN, Pittsburgh, Pa. Filed Mar. 26, 1920. Serial No. 369,068. 3 Claims. (Cl. 51—278.)

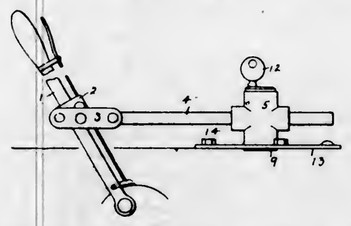
1. The method of grinding, smoothing and finishing glass preparatory to polishing, comprising supplying to the glass a natural crystalline abrasive of such character that as it is crushed and broken the smaller grains or particles thereby produced are of distinct crystalline form, and continuously collecting and supplying to the glass such abrasive during the grinding, smoothing and finishing operations, substantially as described.

1,387,650. UNIVERSAL ROLLING-MILL. CARL W. A. KOELKEBECK, Alliance, Ohio. Filed Aug. 26, 1919. Serial No. 319,949. 7 Claims. (Cl. 80—34.)



1. In a universal mill, the combination of roll housings and horizontal rolls, a set of vertical rolls, and horizontally swinging supports in which the vertical rolls are journaled, substantially as described.

1,387,651. LOCKING DEVICE FOR AUTOMOBILES. ALBERT H. LARDESKEY, Baltimore, Md. Filed Mar. 7, 1919. Serial No. 281,198. 1 Claim. (Cl. 70—128.)



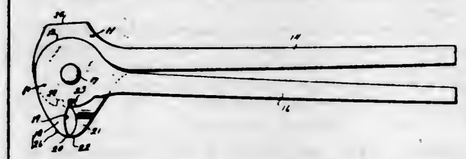
A locking device for automobiles comprising a casing having a key slot in its upper end and recesses in its lower end, a reciprocating locking plate within said casing and having an aperture therein and provided with two shoulders on its lower end adapted to fit within the recesses in the lower end of said casing, a brake handle, a rod pivoted at one end to said brake handle and having its opposite end projecting through said casing and through the aperture in the locking plate, a spring surrounding said rod between the locking plate and the inner surface of the casing, and a key adapted to fit within the key slot of the said casing and to coöperate with the said plate to hold in the unlocked position.

1,387,652. COUNTERBORING-TOOL. CHARLES W. LIPE, San Jose, Calif. Filed May 13, 1920. Serial No. 381,071. 7 Claims. (Cl. 90—12.5.)



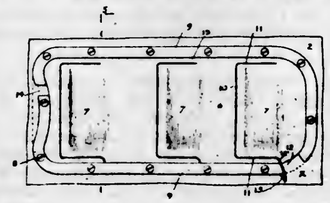
1. A tool of the character indicated comprising a tubular supporting member, a shaft revolubly mounted therein, laterally movable cutting elements operatively connected to said shaft and adjustable thereby, means for rotating said shaft in said member, and means for locking said last mentioned means and said member against rotating with respect to each other.

1,387,653. NAIL-PULLER. IVER LORENTZEN, Clear Lake, S. D. Filed Mar. 21, 1921. Serial No. 454,126. 1 Claim. (Cl. 254—22.)



An implement of the character described comprising two heads recessed upon their confronting faces and having handles, the heads being pivoted to each other for rotation around a common axis, both of said heads having integral outwardly projecting, confronting jaws, the confronting faces of the jaws being concavely curved, the extremities of the jaws being thereby formed with confronting biting teeth, one of said heads being thickened at its rear end immediately above the pivotal axis of the heads and formed with a flat face whereby a hammer may be applied to the implement, the wall of the recess in the head having the thickened portion resting at all times upon the periphery of the other head.

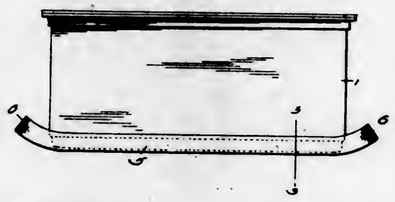
1,387,654. AUTOMOBILE-ENGINE-OILING DEVICE. GRIFFIN Y. MCCLATCHIE, Palo Alto, Calif. Filed July 26, 1920. Serial No. 399,035. 2 Claims. (Cl. 184—13.)



1. The combination with an automobile engine having a crank case and rotating parts of the engine in said

crank case, there being pockets provided on the bottom wall of the crank case for the reception of pools of oil, into which pockets said rotating parts dip, of walls disposed along the sides and rear edges of said pockets to obstruct the flow of oil out of said pockets when said crank case is inclined forwardly and upwardly, the walls on one side of each pocket being substantially lower than on the opposite side.

1,387,655. TOOL-BOX. OSCAR B. SHAW and FRANK L. MCKENNA, Parkersburg, W. Va. Filed Jan. 29, 1920. Serial No. 354,771. 3 Claims. (Cl. 220—97.)

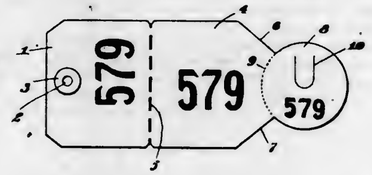


1. The combination with a metal tool box, of wood runners attached to the box, angular metal shoes on the runners, said shoes being extended beyond the ends of the box and curved upwardly to provide means for pulling the box over the ground when heavily loaded without straining the box.

1,387,656. PROCESS OF MAKING PERMANGANATES. JOHN R. MACMILLAN and JOSEPH L. K. SNYDER, Niagara Falls, N. Y., assignors to Niagara Alkali Company, Niagara Falls, N. Y., a Corporation of New York. Filed Aug. 13, 1920. Serial No. 403,428. 5 Claims. (Cl. 23—13.)

1. In the manufacture of permanganate from materials containing manganates and of the nature of a manganate roast the process which comprises making a magma of such a material with a liquid containing dissolved permanganate and chlorinating the mixture.

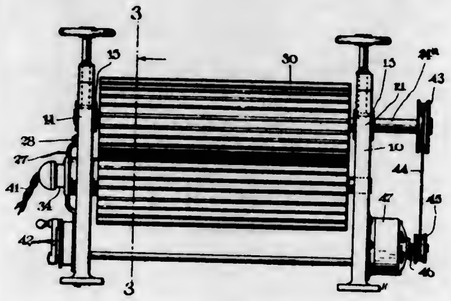
1,387,657. TAG. WELLINGTON S. MIX, Chicago, Ill., assignor to Dennison Manufacturing Company, Framingham, Mass., a Corporation of Massachusetts. Filed Mar. 31, 1921. Serial No. 457,559. 6 Claims. (Cl. 40—2.)



6. A tag comprising a portion having a perforation for fastening means whereby to attach it to a container, a detachable portion provided with a space for the entry of a record, and a detachable portion of substantially circular form constructed and arranged to form a receptacle closure.

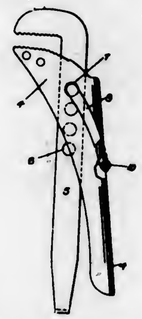
1,387,658. PLAITING-MACHINE. OPHELIA ODLE and LEO ESTELLE ODLE, Waco, Tex. Filed Oct. 29, 1920. Serial No. 420,463. 9 Claims. (Cl. 223—42.)

1. In a plaiting machine of the character set forth, a frame including standards and cross rods extending therebetween and secured thereto, adjustable journals arranged upon the upper portions of said standards, a spindle having trunnions rotatably received in said journals, and an extension exteriorly of one of said standards, a roller keyed to said spindle and having longitudinally disposed ribs on its periphery, a hollow spindle carried by and secured to the lower portions of said standards, a coacting roller rotatably mounted on said hollow spindle and having longitudinally disposed ribs on its periphery adapted to be intermeshed with the ribs of the first mentioned roller, said rollers being adapted to receive between them



the material to be plaited, means for driving said rollers including a pulley secured to the spindle extension and means for electrically heating the coacting roller including a tube of di-electric material arranged in said hollow spindle and an electric heating element arranged in said di-electric tube.

1,387,659. FOOTPRINT-SPANNER. JOHN JOSEPH O'KEEFE, Kensington, near Sydney, New South Wales, Australia, assignor of one-half to Frank Hartrup Pilcher, Kensington, New South Wales, Australia. Filed May 15, 1920. Serial No. 381,733. 1 Claim. (Cl. 81—83.)



An adjustable spanner comprising a jaw member having a handle portion, a second jaw member embracing the first member and coöperating therewith, a spring pivotally mounted on the back of the second member and curved to lie flat against the second jaw member and a pivot pin carried by the spring to connect the two jaw members together, the pivots at opposite ends of the spring lying in planes substantially at right angles to each other.

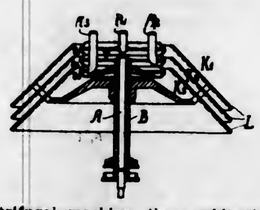
1,387,660. CENTRIFUGAL PUMP. PONTUS OSTENBERG, San Jose, Calif. Filed Jan. 9, 1920. Serial No. 350,347. 8 Claims. (Cl. 253—199.)

1. In a centrifugal pump, a bowl comprising a cylindrical wall section adapted to be attached to upper and lower sections, and have a runner mounted therein, a flange arranged on said wall section adjacent to and within one end thereof and extending within the radius of the runner mounted therein, a diffusion vane arranged on one side of said flange and extending within the radius of the said runner, and a diffusion vane arranged on the opposite side of said flange and extending inwardly



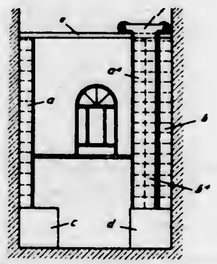
to a point adjacent the outer perimeter of the said runner, both of said vanes being formed integrally with said flange.

1,387,661. CENTRIFUGAL MACHINE. OTTO PANKRATH, Raunheim, Main, Germany. Filed May 1, 1920. Serial No. 378,280. 1 Claim. (Cl. 233—7.)



In a centrifugal machine, the combination with the wing-shaped centrifugal surfaces of the latter, of a distributer for a uniform supply of the filling-mass onto the former having a different circumferential speed to that of the former and consisting of cones in contact with said wings and having slots at said contact points of a length corresponding to that of the latter, substantially as and for the purpose set forth.

1,387,662. LOCKER FOR TICKETS IN TICKET-SELLING ROOMS OF RAILWAY-STATIONS. HERMANN PAUTZE, Berlin, Germany. Filed Sept. 18, 1920. Serial No. 411,342. 1 Claim. (Cl. 211—27.)

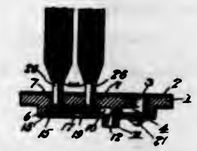


A locker for ticket selling rooms of railway stations, comprising, in combination, two stationary shelves with their open fronts directed toward one another, a two-part shelf with a middle partition having its open sides directed toward said stationary shelves and movable between and upon the latter, and means to lock said two-part shelf with either of said stationary shelves, substantially as and for the purpose set forth.

1,387,663. PROCESS OF MAKING AN ALLOY OF NICKEL AND ZIRCONIUM. NAPOLEON PETINOT, New York, N. Y. Filed Aug. 18, 1919. Serial No. 318,324. 8 Claims. (Cl. 75—1.)

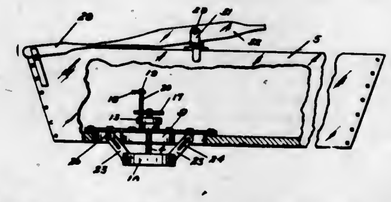
1. The process of making an alloy of nickel and zirconium comprising the melting of nickel in an electric furnace so as to form a molten bath and then introducing in such bath zirconium in a nascent state.

1,387,664. MAGNETIC VALVE FOR ORGANS AND THE LIKE. WILLIAM H. REISNER, Hagerstown, Md., assignor to The W. H. Reisner Manufacturing Company, Hagerstown, Md., a Corporation of Maryland. Filed Mar. 31, 1921. Serial No. 457,256. 4 Claims. (Cl. 84—330.)



1. A valve for organs and the like comprising a base having a port and a recess therein constituting a windway, an electromagnet supported by the base with its poles adjacent said recess, a plate engaging the base and covering said recess having a port and an opening therein, a valve coöperating with the port in the plate and actuated by said magnet, a stud on said base engaging the opening in said plate, and means coöperating with said stud for locking the plate to the base.

1,387,665. SAFETY WATER-CRAFT. LEWIS J. RING, Wakefield, Nebr. Filed Nov. 29, 1920. Serial No. 426,941. 1 Claim. (Cl. 114—124.)

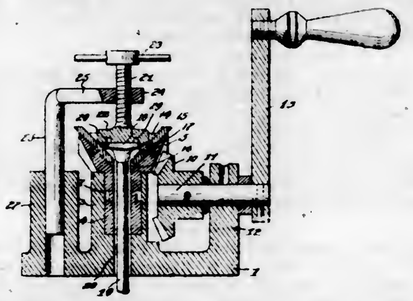


A safety water craft having a bottom provided with an opening therein, a plate covering the opening and providing a recess within the opening, a weight adapted to normally lie within said recess flush with the bottom of the boat, a post mounted to reciprocate substantially vertically through said plate and carrying said weight, links connected between said weight and plate and adapted to act as guards for preventing weeds from getting access to said post, a handle in the upper end of said post, and a detent for engaging beneath said handle to hold the weight within the recess.

1,387,666. VALVE-REFACING TOOL. WALTER ROTHER, Detroit, Mich., assignor to R. F. L. Tool and Die Company, Detroit, Mich., a Copartnership comprising Walter Rother, Elmer J. Fox, and Lewis W. Lovet. Filed Aug. 4, 1920. Serial No. 401,094. 5 Claims. (Cl. 82—1.)

1. A valve refacing tool comprising a shaft, driving means for said shaft, a plurality of cutting blades carried

by said shaft, and conically inclined to the axis thereof, the cutting edges of said blades providing a seat for a



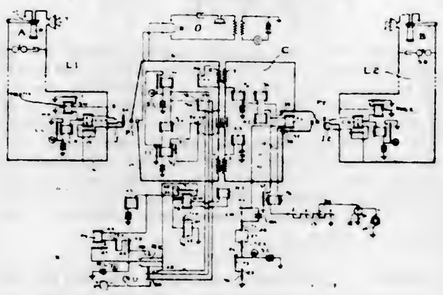
tappet valve, and means for maintaining an axial pressure upon a tappet valve engaging said blades and for restraining said valve from rotation.

1,387,667. COOKING SET. WILLIAM HUNTINGTON RUSSELL, New Haven, Conn. Filed May 2, 1921. Serial No. 466,213. 3 Claims. (Cl. 53—1.)



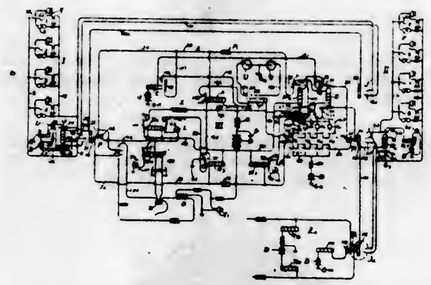
1. A kettle with a vertical passage through it, means for regulating the size of the passage between the lower and upper part of said vertical passage and a cover for the top of said vertical passage, substantially as set forth.

1,387,668. CALL-METERING SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Sept. 26, 1918. Serial No. 255,736. 16 Claims. (Cl. 179—10.)



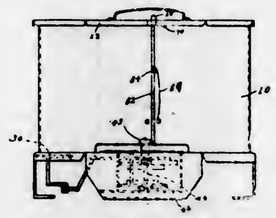
1. In a telephone system, the combination with a telephone line, of a central office connection switch, a line meter having a circuit adapted to be completed by said connection switch, the said line meter having contacts adapted to be closed when the said line meter s energized, an operating winding for the said line meter, a second winding therefor, and adapted to be placed in multiple with the said first winding when the said contacts are closed, a marginal relay and a source of registration current adapted to be connected to the said line meter when a connecting circuit is associated with the said telephone line, by the operation of the said connection switch, an armature for the said marginal relay adapted to be operated when the said line meter contacts are closed, but not operated prior to the closure of the said contacts, means under the control of the said armature to cause the said registration source of current to be disassociated from said line meter when the said armature is operated, and a holding circuit for the said marginal relay including a normally short circuited winding thereof.

1,387,669. TELEPHONE SYSTEM. FRANK M. SLOUGH, Elyria, Ohio, assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y., a Corporation of New York. Filed July 20, 1914, Serial No. 851,908. Renewed Jan. 27, 1921. Serial No. 440,528. 26 Claims. (Cl. 179—35.)



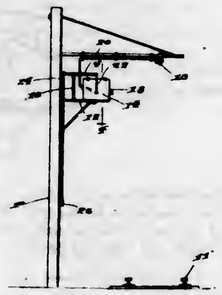
1. In a telephone system, the combination of a main station, a plurality of substations, telephone lines leading from the substations to the main station, one of said lines having a plurality of substations on the same, multiple terminals at the main station for said telephone lines, a cord circuit at the main station for connecting the lines together, means for connecting the cord circuit to the terminals of the lines, busy test signaling means for giving a signal when a busy line is tested, and means for disabling said busy test signaling means when a test is made upon a multiple conductor of a line already connected to the link conductors.

1,387,670. BREAD-TOASTER. CHARLES P. STRITE, Minneapolis, Minn. Filed May 29, 1919. Serial No. 300,677. 8 Claims. (Cl. 219—19.)



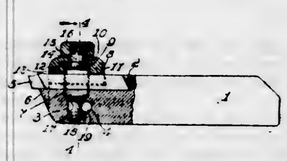
1. A bread toaster comprising a casing, heating means in said casing, and means for cutting off the supply of heat after the bread has been toasted for a predetermined length of time.

1,387,671. CAR-SIGNAL. SADIE WIDEMAN, Niles, Mich. Filed Dec. 8, 1920. Serial No. 429,216. 1 Claim. (Cl. 246—209.)



A signaling device comprising an inclosing box mounted on a suitable support, a source of light within the box, vertically swinging spring held doors on opposite ends of the box and arranged to open toward an approaching car on a railway, reflectors on the inner faces of the doors, vertical supports on the first named support, rock levers pivotally supported on the supports, depending links pivotally connected to the inner ends of the rock levers and adapted for manual manipulation, and depending links pivotally carried by the other ends of the rock levers and pivotally connected with the respective doors.

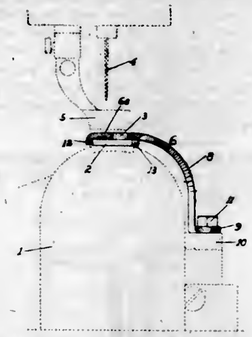
1,387,672. TOOL-HOLDER. WALTER O. WILLE, Waterloo, Iowa. Filed Apr. 8, 1920. Serial No. 372,181. 2 Claims. (Cl. 29—96.)



2. A tool holder, embodying a transversely shouldered member having an upper channel to receive the lower part of a bit therein, said member having a vertically arranged bottom socket traversing said channel, and adjustable clamping means, comprising a transversely slotted body seated in said socket rockingly to project above said member and having its slot in line with said channel of greater height than the latter, said body having an annular groove positioned within said socket, said member having a transverse orifice traversing part of said groove, and a pin mounted in said orifice engaging the walls of said groove, permitting the body to be rocked in said socket while secured therein, and a clamp with corners truncated adjustably mounted and secured removably to said body to clamp said bit in an adjusted position upon said member.

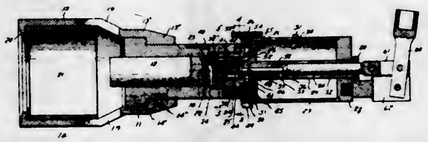
1,387,673. KNIFE-PROTECTOR FOR SHOE-STITCHING MACHINES. ANTONE M. WIRTH, Stockton, Calif., assignor of one-half to Frank J. Mackey, Stockton, Calif. Filed June 9, 1920. Serial No. 387,697. 5 Claims. (Cl. 112—45.)

1. In a shoe stitching machine, the combination with the shuttle door, a needle knife plate thereon and a vertical pivotal bolt on the machine on one side of the door; of a plate projecting over the knife-plate and provided with a slot in which the knife is inclosed, and an arm formed with the plate and projecting down alongside



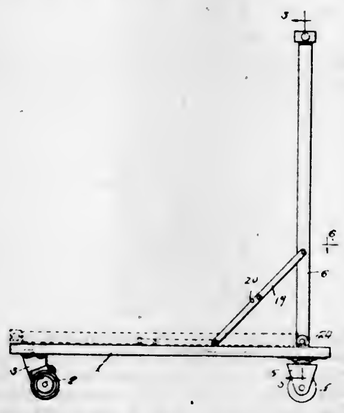
the door to said bolt thereof and being pivotally held by the latter.

1,387,674. HYDRAULIC WHEEL-PULLER. CHARLES W. WOOD and EDGAR C. KELLY, Hampton, Va. Filed June 4, 1920. Serial No. 386,619. 6 Claims. (Cl. 138—10.)



1. A wheel puller comprising a casing having a wheel engaging member at one end and a reservoir at its other end, a ram slidably mounted in the casing for projection therefrom in wheel pulling active relation to the wheel engaging member, a pump within and communicating with the reservoir and ram chamber of the casing in position to force liquid under pressure against the ram, and a manually controlled vent from the casing at the head of the ram to the reservoir.

1,387,675. FOLDABLE PUSHMOBILE. DAVID WOROBOW, Chicago, Ill. Filed Mar. 15, 1920. Serial No. 365,822. 5 Claims. (Cl. 280—87.5.)



4. In a vehicle of the class described, a platform having a vertical perforation, a single forward wheel swiveled

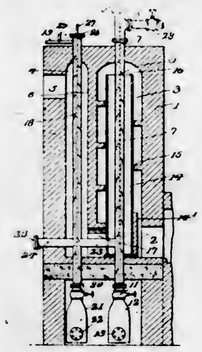
under the platform in axial alinement with said perforation, a riser normally extending upward from the said perforation and swiveled to the platform on a horizontal axis disposed above the platform and transversely of the vehicle, a steering rod carried by the riser and swiveled thereto on an axis longitudinal of the latter, and a connecting member extending through the perforation and having at its opposite ends tangs respectively engaging corresponding socket formations in the steering rod and in the mounting of the forward wheel.

1,387,676. STEAM-GAGE. PHILIP IGNACIOUS WRIGHT, Oakland, Calif. Filed Nov. 24, 1920. Serial No. 426,145. 7 Claims. (Cl. 73—54.)



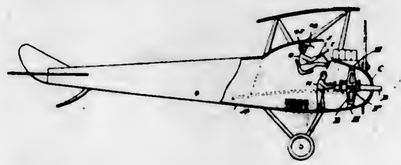
1. The combination with the glass tube of a steam gage fixture, having securing nuts for the upper and lower ends thereof, of a water shedding protector secured on the tube to lie intermediate the securing nut for its upper end and the normal water level designation of the tube.

1,387,677. PROCESS OF HEATING OIL-RETORTS AND APPARATUS THEREFOR. CLIVE M. ALEXANDER, Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Mar. 14, 1916. Serial No. 84,212. 8 Claims. (Cl. 196—3.)



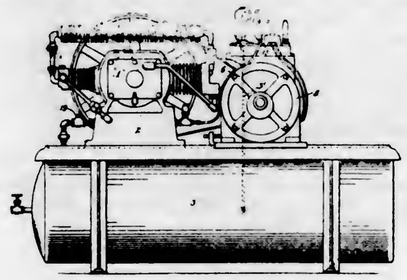
1. The method of heating oil converting devices, which comprises leading fire gases in contact with a heat conductive partition spaced away somewhat from such oil converting device but in heat radiating relationship throughout substantially its entire length and thereafter leading such fire gases between such partition and such device.

1,387,678. GUN MOUNT AND CONTROL. GILBERT V. ANDERSON, Philadelphia, Pa. Filed July 5, 1917. Serial No. 178,568. 57 Claims. (Cl. 89—40.)



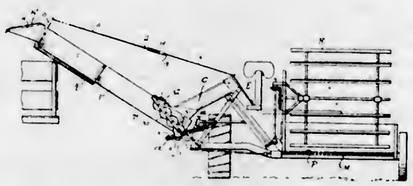
1. The combination with an air ship, of a gun thereon, a sighting device adapted to be secured to the operator's head, and fluid pressure means compelling the gun to move in unison with the sighting device.

1,387,679. PRESSURE-RELEASE. ROLLIN L. BACHER, Cleveland Heights, Ohio, assignor to The United States Air Compressor Company, Cleveland, Ohio, a Corporation of Ohio. Filed Dec. 3, 1919. Serial No. 342,158. 6 Claims. (Cl. 230—24.)



1. In apparatus of the character described, the combination with an air compressor, a suitable chamber for retaining the air under pressure, and means for controlling the actuation of said compressor including a motor and a switch for governing the latter; of an air conduit communicating with said chamber, an unloading valve, means for supporting the latter, said valve adapted to communicate with said conduit and provided with an outlet to the atmosphere, and means actuated by said switch adapted to close the outlet, said means adapted to be held by the switch in outlet closing position against the pressure of air in said chamber.

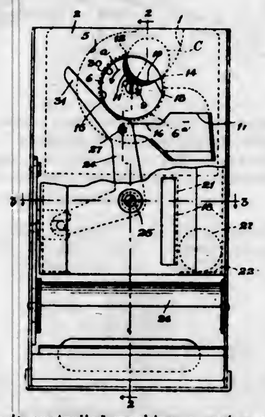
1,387,680. HARVESTER ATTACHMENT. BURTON W. BAKER, Silesia, Mont. Filed Oct. 24, 1919. Serial No. 332,940. 6 Claims. (Cl. 193—14.)



1. In combination with a supporting structure, a conveyer comprising side boards, a shaft rotatably supported by said side boards adjacent one end, connections between the shaft and the supporting structure, said connections including a member engaged with the shaft, said member being provided with an opening, a strap slidably disposed

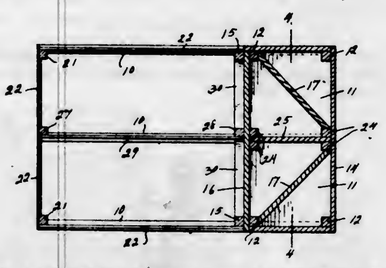
through the opening and engaged with the supporting structure, means for clamping the member on the shaft to the strap, and an endless member in driven connection with the shaft.

1,387,681. COIN-TESTING MECHANISM FOR COIN-CONTROLLED MACHINES. LOUIS BERTRAM, Long Island City, N. Y., assignor to Automles Corporation, New York, N. Y., a Corporation of New York. Filed May 3, 1918. Serial No. 232,205. 5 Claims. (Cl. 194—102.)



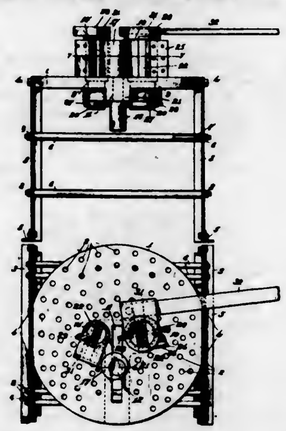
1. In a coin-controlled machine, a casing adapted to be supported in a substantially upright position and having a downwardly extending coin-passage, the width of said coin-passage being substantially equal to the thickness of a proper coin, a hand-operable coin-disk mounted to rotate in said coin-passage and having a curved seat or recess for receiving a proper coin and carrying the same into operative position, and a beveled surface leading downwardly from said coin-seat, whereby checks of less than prescribed thickness or diameter automatically slide down said beveled surface out of the coin-seat.

1,387,682. COMBINED SETTING AND BROODING COOP. DAVID W. BUSH, Jr., Bartley, Nebr. Filed Nov. 11, 1920. Serial No. 423,256. 4 Claims. (Cl. 119—19.)



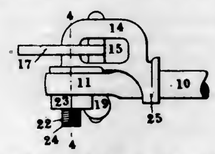
1. In a setting and brooding coop, a rectangular floor, vertical uprights secured to said floor at the corners thereof, side walls secured to said uprights, a removable diagonally disposed partition within the coop and abutting the side faces of diagonally opposed vertical uprights at their junction with the side walls, and a roof for said coop comprising pairs of rafters adapted to abut and rest upon the vertical ends of said uprights, spaced transverse members having their ends secured to the rafters of each pair and a weather-proof covering for said rafters, said covering being provided with a hinged portion forming a door through which said partition may be removed.

1,387,683. METAL-WORKING DEVICE. HERMAN BUSSEL, El Paso, Tex. Filed June 17, 1919. Serial No. 304,753. 8 Claims. (Cl. 153—40.)



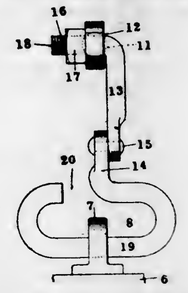
1. A bed plate provided with a pair of circular sockets, rotary posts mounted therein and each provided with a stock-receiving slot, said plate also being provided with an elongated slot extending between said sockets, a pin adjustably mounted in said slot with relation to said posts, and means for turning said posts, substantially as described.

1,387,684. ATTACHMENT FOR PIN-LIFTERS. STERLING H. CAMPBELL, St. Louis, Mo. Filed Oct. 15, 1919. Serial No. 330,874. 2 Claims. (Cl. 213—59.)



1. The combination with an operating rod provided with a horizontal opening, of an attachment carrying an integral stud extending through said opening said attachment being provided with a vertical eye, and means carried by the attachment for engaging with the rod to prevent its pivotal movement relative to the rod.

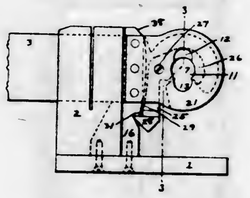
1,387,685. COUPLING-RELEASE RIGGING. STERLING H. CAMPBELL, St. Louis, Mo. Filed Apr. 6, 1921. Serial No. 458,891. 4 Claims. (Cl. 213—59.)



4. In a device of the class described, the combination with a coupler locking pin, of an operating lever therefor, and a link comprising two pieces pivoted together, the

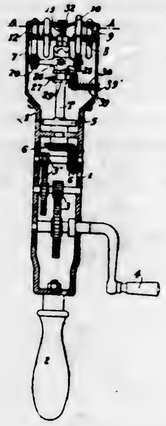
ends of said links being pivoted to the lever and locking pin respectively to move in a vertical plane, the axes of all of said pivots being substantially parallel.

1,387,686. ELECTRIC SWITCH. PHILIP H. CHASE, East Orange, N. J. Original application filed Feb. 28, 1916, Serial No. 80,923. Divided and this application filed Nov. 4, 1916. Serial No. 129,610. 13 Claims. (Cl. 200—169.)



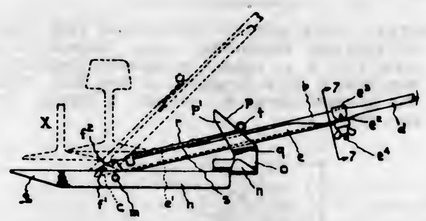
1. An electric switch combining a blade member adapted to close a circuit and comprising two spaced parts substantially in the plane of the blade and having registering apertures adapted to receive an operating implement, means comprising a fixed shield extending between said spaced parts, and means controlled by said shield and adapted to blanket said apertures throughout a portion of the movement of said blade, to prevent removal of the implement from said apertures throughout said portion of the movement of the blade.

1,387,687. MASSAGING APPARATUS. PAUL LOUIS FRANÇOIS HIPPOLYTE CHAUSSINAND, St. Dizier, France. Filed Apr. 2, 1913. Serial No. 758,418. 12 Claims. (Cl. 128—16.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



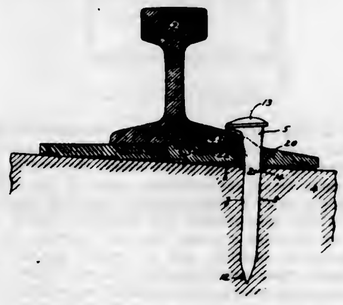
1. A vibratory massaging apparatus comprising in combination with a driven shaft, a cross-member carried thereby, rollers mounted on said cross-member, and a series of fingers actuated by said rollers, as and for the purpose set forth.

1,387,688. TRACK-LINER BAR. LOUIS P. CHICOINE, Vaudreuil, Quebec, Canada. Filed Sept. 16, 1920. Serial No. 410,803. 15 Claims. (Cl. 254—43.)



1. A track liner comprising a lever, a shoe of trough form in cross-section adapted to fit upon the lever; means rigidly securing the shoe to the lever; a pointed foot; and means pivotally connecting the foot to the shoe.

1,387,689. TRACK-SPIKE. LOUIS P. CHICOINE, Vaudreuil, Quebec, Canada. Filed Sept. 16, 1920. Serial No. 410,804. 3 Claims. (Cl. 238—295.)



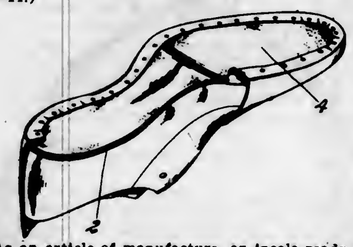
1. A track spike of rectangular cross-section having a projection upon its side which is farthest from the rail and an enlargement on its opposite side adjacent the throat thereof, such enlargement being adapted to engage the rail when the spike is being driven whereby the latter is shifted in a direction away from the rail for the purpose set forth.

1,387,690. PACKING-BOX. OLE DAHL, Muskegon, Mich. Filed Mar. 1, 1920. Serial No. 362,634. 3 Claims. (Cl. 286—37.)



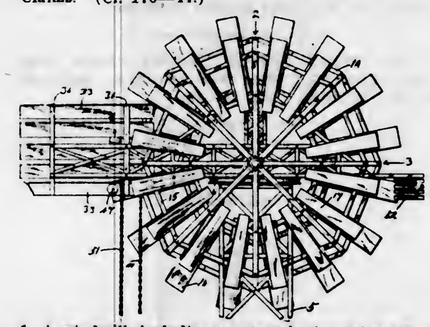
1. A packing box having serrations upon its periphery, and an anchoring element consisting of an annular body open at one side, a right angled spring arm projecting upwardly from one side of the opening in the body and engaging the serrations and so anchored as to prevent the box from unscrewing from its bearings and arranged to allow the box to be screwed farther into the barrel if desired.

1,387,691. INSOLE. HERMAN A. DAVENPORT, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 23, 1918. Serial No. 251,112. 7 Claims. (Cl. 36—44.)



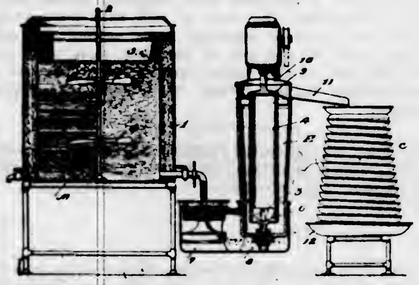
1. As an article of manufacture, an insole ready for incorporation in a shoe comprising a sole-shaped body of unvulcanized vulcanizable material, and a body of fibrous material which is capable of being molded and retaining the mold imparted to it attached to one surface of the said vulcanizable material.

1,387,692. WINDMILL. JOHN J. DONNELLY, Denver, Colo. Filed Jan. 2, 1920. Serial No. 348,844. 5 Claims. (Cl. 170—44.)



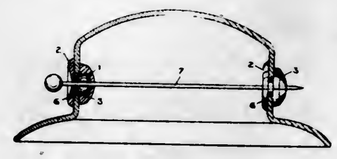
1. A windmill, including a rotary horizontal shaft, two windwheels of different size, fast thereon and spaced from each other, a vane extending across the shaft between the wheels and having a controlling member deflected toward the smaller wheel for balancing purposes when the direction of the wind is between the wheels.

1,387,693. PROCESS OF FORMING BAKERS' MIX. FRANK ANTONE DOYLE, West Chester, Pa., assignor to The Sharples Separator Co., West Chester, Pa., a Corporation of Pennsylvania. Filed July 20, 1920. Serial No. 397,651. 4 Claims. (Cl. 99—10.)



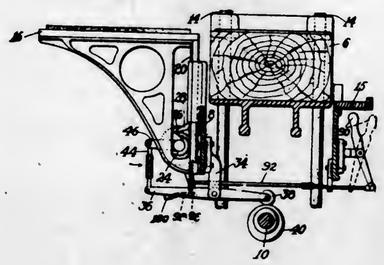
1. The process of forming a baker's mix consisting of mixing a shortening fat and a wetting and emulsifying the mixture whereby the shortening fat is divided into relatively small particles and a thoroughly homogeneous liquid mass produced.

1,387,694. HAT AND FASTENER FOR SAME. BERTRAND ISAAC EADDY, Remuera, Auckland, New Zealand. Filed Feb. 26, 1921. Serial No. 448,080. 1 Claim. (Cl. 132—70.)



A device of the character described adapted for application to a hat, a compressible spring dome having a central pin receiving aperture, a laterally projecting flange carried by the relatively small terminal of the dome having a countersunk portion, and an aperture adapted to receive a pin, and a socket member having a recess decreasing in diameter toward its open end adapted to receive and compress the dome, said socket member having a relatively narrow edge presented to and of less diameter than the flange and disposed in close relation to the latter whereby to firmly clamp a portion of the material of a hat to maintain the device in position thereon.

1387,695. WORK-SUPPORT FOR CUTTING-MACHINES. HARRISON H. EATON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Dec. 9, 1918. Serial No. 265,902. 24 Claims. (Cl. 164—19.)

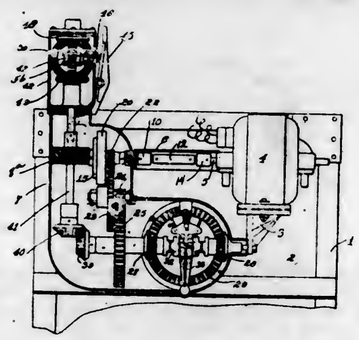


1. In a sole cutting machine, a cutting bed, power means for operating on work on the bed, a work support, and power means for moving the work support at intervals determinable by the operative to present the pieces of work supported thereon successively in selected positions closely adjacent to the plane of the upper surface of the cutting bed.

1,387,696. WASHING-MACHINE DRIVE. HAROLD W. EDEN, Alton, Ill., assignor, by mesne assignments, to Gillespie-Eden Corporation, a Corporation of Delaware. Filed Aug. 13, 1917. Serial No. 185,896. 2 Claims. (Cl. 74—7.)

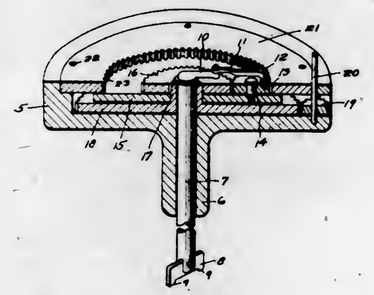
2. Transmission mechanism for washing machines comprising a casing adapted to be attached on the side of a washing machine and having a plurality of shaft bearing portions therein, a plurality of shafts supported by said bearing portions, intermeshing gears mounted on said shafts, one of said gears being rotatably mounted upon

one of said shafts and having an extension, a clutch member secured on said extension, and centrifugal clutch



mechanism connecting said last mentioned shaft and said clutch member.

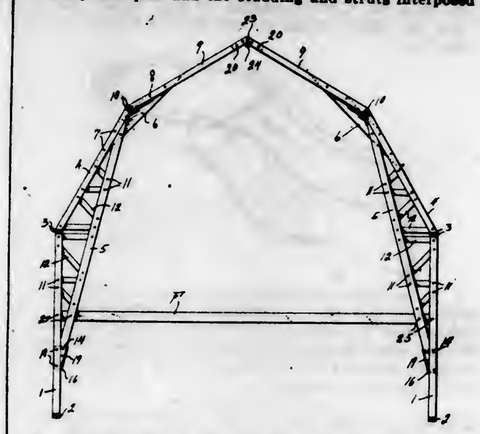
1,387,697. MECHANISM FOR IMPARTING AN OSCILLATORY MOVEMENT TO A DRIVEN ELEMENT. WILLIAM T. EDWARDS, San Diego, Calif. Filed Nov. 29, 1920. Serial No. 427,157. 2 Claims. (Cl. 74—14.)



1. A device of the character described comprising an oscillatory shaft, a crank thereon, a rotative gear wheel, a wrist pin carried by said gear wheel, a connecting rod between said wrist pin and said crank, a floating disk, a stud carried by said floating disk upon which the gear wheel is journaled for rotation and a pair of gears with which the first named gear wheel meshes, one of which lies inwardly of said first named gear wheel and the other of which lies outwardly thereof and all of which gears lie in substantially the same horizontal plane, one gear of the pair being fixed and the other gear of the pair being mounted for rotation and means for imparting rotation to said rotative one of the pair of gears.

1,387,698. BUILDING STRUCTURE. INGVALD E. ERICKSON, Osakis, Minn., assignor of one-half to Frank S. Blochowick, Osakis, Minn. Filed Aug. 9, 1920. Serial No. 402,123. 6 Claims. (Cl. 20—1.)

1. In a building structure, the combination of an upstanding studding, a plate on the upper end of the studding, a rafter having its lower end portion mounted upon the plate, a plate arranged at the upper end of the rafter, a second rafter having its lower end engaged with the last named plate, a plate connecting the adjacent ends of the first and second rafters, a purlin post connected to said last named plate and the lower portion of the studding, struts interposed between and connected to the purlin post and the studding and struts interposed



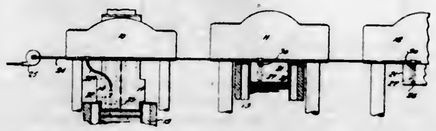
between the purlin post and the first named rafter and secured to both the rafter and the purlin post.

1,387,699. TYING DEVICE. GEORGE ALFRED FORD, Kansas City, Mo. Filed Nov. 10, 1919. Serial No. 337,097. 4 Claims. (Cl. 24—18.)



3. A tying device comprising an elongated base plate having its ends rounded and its edges all around turned downward and disposed in the same plane so as to rest in gripping relation upon a package to hold the device against twisting during the tying of the package, said turned down edges being formed in part at one end by an annular bead providing for the reception and retention of the thumb within the bead, said turned down edges being formed in part at the other end by a button-carrying elevation on the base plate, and said turned down edges intermediate the ends of said base plate being formed by means of marginal beads uniting the said annular bead at one end of the base plate with the marginal part of said button-carrying elevation, and a string-holding button carried by said button-carrying elevation.

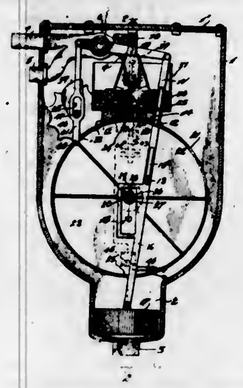
1,387,700. EXPRESSING-PRESS. ALFRED W. FRENCH, Piqua, Ohio. Filed Apr. 12, 1919. Serial No. 289,689. 8 Claims. (Cl. 100—50.)



1. In a press, the combination of a cage in which the material is confined, a pressure device at one end of the cage provided with an oil escape passage communicating with the adjacent portion of the cage, and suction means connected with said escape passage for withdrawing oil from the portion of the cage adjacent said pressure device.

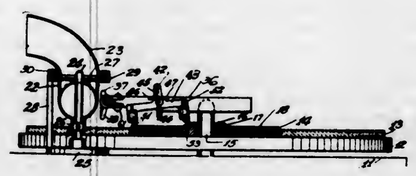
7. In a press, the combination of a cage in which the material is confined, and a pressure device adapted to enter the upper end of the cage and having an oil passage therethrough, of oil receiving grooves in the lower face of said pressure device and in communication with said oil passage, and suction means connecting with said passage for withdrawing oil from the upper portion of said cage.

1,387,701. FLUID-MEASURING APPARATUS. NORMAN B. GARDINER, Staten Island, N. Y. Filed Dec. 20, 1916. Serial No. 138,120. 33 Claims. (Cl. 221—106.)



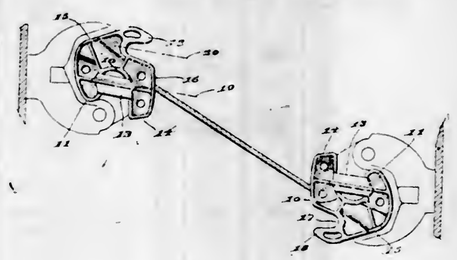
1. In a fluid measuring apparatus, in combination, a means of fluid supply, a measuring container automatically operated by the fluid itself to receive and discharge fluid, and means coöperating with said fluid supply means for assuring to said container upon each operation thereof a supply of fluid equal to but not exceeding the volumetric capacity of the container.

1,387,702. DRIVING MEANS FOR PHONOGRAPH ATTACHMENTS. WILLARD H. GILMAN, New York, N. Y., assignor, by mesne assignments, to John A. McVickar, New York, N. Y. Filed Mar. 29, 1920. Serial No. 369,571. 9 Claims. (Cl. 274—13.)



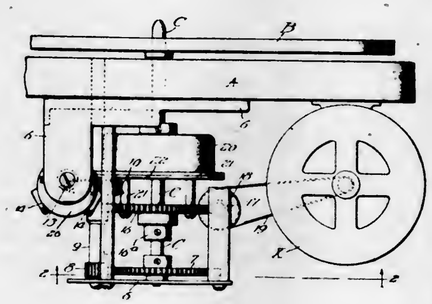
1. In a phonograph mechanism, the combination of a turntable mounted for rotation, a spiral plate and a record placed on said turntable, a tone arm arranged to move across the face of said record and a plurality of engaging means connecting said spiral plate with said tone arm, whereby said tone arm moves over a wider space on said record than the width of said spiral.

1,387,703. SWITCHING-CABLE HOOK. DAVID T. GOODMAN, Altoona, Pa. Filed Nov. 8, 1920. Serial No. 422,562. 3 Claims. (Cl. 213—65.)



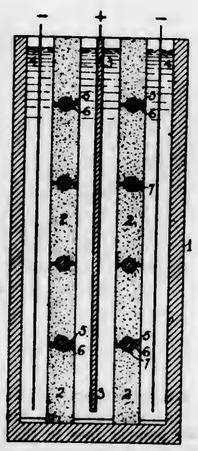
1. A hook for switching cables having a bumper face at the free end of its stem, cable attaching means, spaced materially from the bumper face in the direction of the bill of the hook, and a cable connected with the attaching means and of such flexibility as to permit it to hang therefrom rearwardly of the bumper face.

1,387,704. SPEED-EQUALIZING DEVICE FOR PHONOGRAPHS, &c. CLIFFORD H. GREEN, Grand Rapids, Mich., assignor to National Piano Manufacturing Company, Grand Rapids, Mich., a Corporation of Illinois. Filed June 14, 1918. Serial No. 239,981. 9 Claims. (Cl. 185—40.)



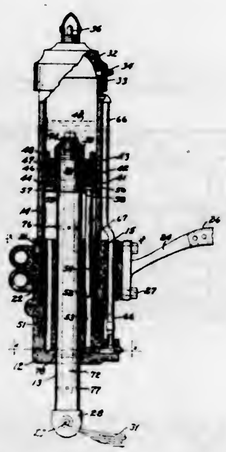
9. In speed equalizing devices for phonographs, the combination with a revoluble turntable, a shaft on the upper end of which said turntable is mounted, and a spiral spring the inner end of which is permanently secured to said shaft, of an annular casing surrounding said spring concentric to said shaft and having an inner annular surface adapted to be frictionally engaged by the outer convolution of said spring, a gear connected to said casing, a motor and gearing for transmitting motion from said motor to said first mentioned gear, a gear securely mounted on said shaft, and governor mechanism driven thereby.

1,387,705. ELECTROLYTIC DIAPHRAGM. WILLIAM E. GREENAWALT, Denver, Colo. Filed May 25, 1920. Serial No. 384,143. 6 Claims. (Cl. 204—28.)



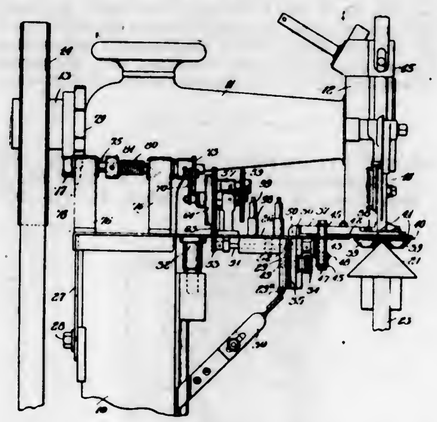
1. An electrolytic diaphragm composed of a plurality of porous sections having grooved edges and metal rods inclosed in rubber tubing inserted in the grooves between the porous sections to support them.

1,387,706. SHOCK-ABSORBER. GEORGE H. GRUSS, San Francisco, Calif., assignor, by direct and mesne assignments of one-fourth to L. E. Bedford and one-fourth to Cachot Therkelsen, San Francisco, Calif. Filed Oct. 20, 1919. Serial No. 331,907. 13 Claims. (Cl. 267—64.)



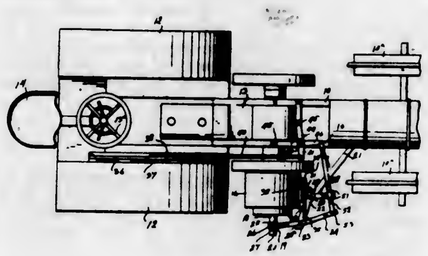
3. In a shock absorber, a base block having a portion tapered inwardly from a cylindrical end, a tube adapted to fit over the cylindrical end and tapered portion of said base and having that part opposite the tapered portion of the base tapered outwardly, and a clamp ring adapted to inclose the tube to compress the outwardly tapered end thereof into locked engagement with the inwardly tapered portion of the base.

1,387,707. FEEDING MECHANISM. GEORGE H. GUNN, Rochester, N. Y., assignor of one-half to Charles E. French, Rochester, N. Y. Filed June 24, 1920. Serial No. 391,496. 5 Claims. (Cl. 1—7.)



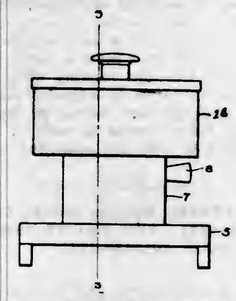
1. In a feeding mechanism for a stitching machine having a signature supporting saddle, a bed, work feeding rolls coöperating with the inclined sides of said saddle, a shaft for actuating said rolls, and operative means for intermittently rotating said shaft arranged for actuation by said machine.

1,387,708. TRACTOR. WALTER B. HALL and TOM MERRILL, Stratton, Nebr. Filed Dec. 1, 1920. Serial No. 427,536. 6 Claims. (Cl. 180—53.)



1. The combination with a tractor embodying the usual driver's seat, power unit, control for the power unit adjacent the driver's seat, a shaft driven by the power unit, a pulley rotatably mounted upon the shaft and a member when shifted in one direction to hold the pulley against rotation, of a brake engaging said pulley, a bracket secured to the frame of the tractor and embodying a portion extending adjacent the periphery of the pulley, a lever pivotally mounted upon said bracket, a shiftable member operated by the lever when moved in one direction for shifting the first named member to hold the pulley against rotation with relation to the shaft, a bell crank lever pivotally mounted upon the portion of said bracket adjacent the periphery of the pulley and embodying an arm extending in a direction away from said lever to which said brake is pivotally connected, a bar connecting said lever and the other arm of said bell crank lever and means for shifting said arm disposed adjacent the driver's seat.

1,387,709. AGITATOR. HOBART HALSTEAD, Buffalo, N. Y. Filed Aug. 19, 1919. Serial No. 318,587. 2 Claims. (Cl. 259—122.)

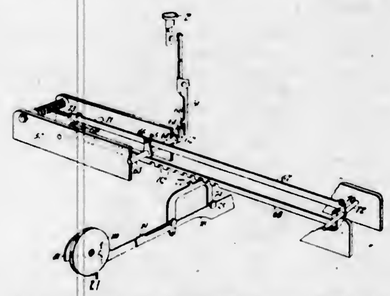


1. An agitator comprising a base, a casing supported on the base, a rotor disposed within the casing, a receptacle removably mounted on the casing, and a dasher disposed within the receptacle and fixed to rotate with the rotor, said dasher serving to limit the upward displacement of the receptacle, by contact with the bottom thereof.

1,387,710. METHOD OF DRYING VEGETABLES AND FRUITS. BURT S. HARRISON, Brooklyn, N. Y., assignor to Carrier Engineering Corporation, New York, N. Y. Filed Aug. 3, 1918. Serial No. 248,113. 5 Claims. (Cl. 99—5.)

2. The hereindescribed method of drying fruits and vegetables consisting in slicing the material, treating the sliced material with a saline solution which prevents oxidization of the material, and then drying the material in the presence of an inert or non-oxidising gas.

1,387,711. COMBINED TYPEWRITING AND COMPUTING MACHINE. FREDERICK A. HART, Jersey City, N. J., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Oct. 25, 1911. Serial No. 656,696. 105 Claims. (Cl. 235—60.)



1. In a combined typewriting and computing machine, the combination with typewriting mechanism including numeral types, of computing mechanism including denominational computation members, levers to operate said types and control said computing mechanism, and mechanism for controlling said typewriting mechanism from said computing mechanism, comprising devices whereby the action of said levers is governed by said computing mechanism, according to the position of said computation members.

84. The combination, with a typewriting machine, of a computing device including a series of cams, a series of bars positioned by said cams, and means for actuating said bars to control the operation of the numeral key levers of the typewriter.

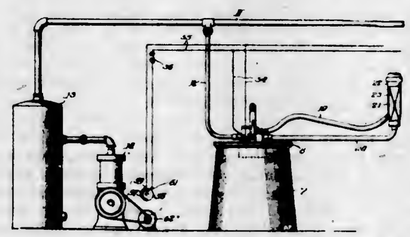
94. The combination of a set of independently settable computation devices, a series of numeral type-bars, means for operating said type-bars, and type-bar selecting devices controlled by said computation devices.

1,387,712. SHOE AND METHOD OF MAKING THE SAME. GUSTAF E. HEDLUND, Brockton, Mass. Filed Mar. 7, 1921. Serial No. 450,379. 8 Claims. (Cl. 36—30.)



1. A shoe provided with an outsole and an upper and having a wedge-shaped member interposed between said outsole and upper at one side of a median line extending from toe to heel.

1,387,713. MILKING-MACHINE. PALMER B. HEWLETT, San Francisco, Calif. Filed July 19, 1920. Serial No. 397,157. 5 Claims. (Cl. 31—101.)



1. In a milking machine, the combination of a milk receptacle cover provided with a depending annular flange, an electromagnet disposed within said flange, a cover engaged with said flange to inclose said magnet, a pulsator casing mounted upon said cover, pulsator valves disposed within said casing, means actuated by said magnet for operating said valves, vacuum producing means, and means for intermittently energizing said magnet.

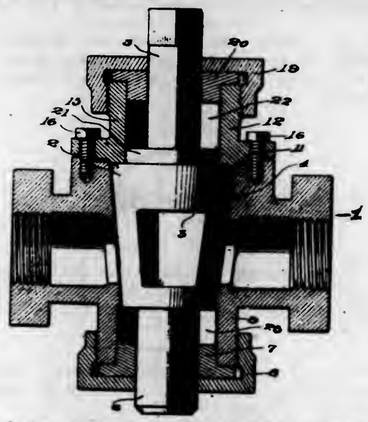
2. In a milking machine, the combination of a milk receptacle cover, an electromagnet mounted on the lower face of said cover, means for inclosing said magnet, pulsator valves arranged to be actuated by said magnet, and a vent opening through said cover into the magnet inclosure.

3. In a milking machine, the combination of a milk receptacle cover, an electromagnet mounted on the lower face thereof, a chamber inclosing said magnet, a vent opening from said chamber to said cover, pulsator valves arranged to be actuated by said magnet, means for periodically energizing said magnet, and means for producing a vacuum in said receptacle.

4. In a milking machine, the combination of a milk receptacle cover provided on its lower face with a depending annular flange, an electromagnet arranged within said flange, a cover threaded onto the lower end of said flange, an armature disk adapted to be actuated by said magnet, a post carried by said disk, a pulsator valve disposed above said cover and adapted to be actuated by said post, and a hardened wear-resisting element interposed between said post and the stem of said valve.

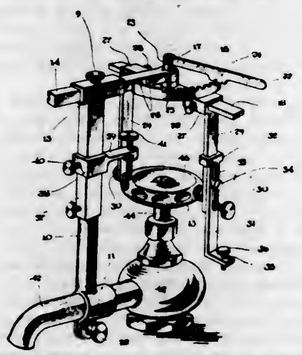
5. In a milking machine, the combination of a milk receptacle cover, an electromagnet attached to the lower face of said cover, an electrical socket projecting above said cover and connected with said magnet, a pulsator valve, operative connections between said valve and said magnet, vacuum inducing means, and means for periodically energizing said magnet.

1,387,714. STOPCOCK. FREDERICK C. HEYLMAN, Martinez, Calif. Filed Dec. 10, 1918. Serial No. 266,108. 2 Claims. (Cl. 251—91.)



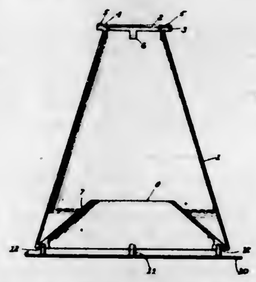
1. A device of the character described comprising a body casting having alining ways therethrough, and a central chamber communicating therewith, said chamber having a frusto-conical wall, a conical plug fitted to turn in said chamber and having a port adapted to register with said ways, a stem projecting upwardly from said plug, said casting provided with an internal groove at its upper end having an external shoulder, said body casting having screw threaded sockets opening out on its upper face, a gland placed upon said body casting and having an annular flange provided with openings above said sockets, said gland provided with a depending ring adapted to slidably enter said groove, screws fitted through the openings in said flange and engaging the threads in said sockets, a gasket of narrow width compared to said groove seated therein and adapted to be compressed by said gland, said gland extending inwardly above the plug chamber and having a depending central portion engaging the upper end of the plug for holding the same tightly seated in the frusto-conical wall of the casing, said plug having a reduced upper portion extending upwardly into the interior of the gland, a packing ring extending about the upwardly projecting stem of the plug, and a screw cap engaging the gland for securing said packing ring in place.

1,387,715. CONTROLLING MEANS FOR SPRING-OPERATED FAUCETS. GEORGE ALBERT HICKMAN, Pearl River, N. Y. Filed June 28, 1920. Serial No. 392,194. 9 Claims. (Cl. 251—163.)



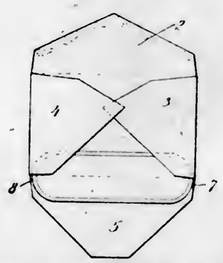
1. Controlling means for faucets having a nozzle and a spring closed valve and operating handle, consisting of a standard having its lower end adapted to be clamped to the nozzle and having a bearing at its upper end, a supporting arm slidably mounted in the bearing of the standard, means for securing said supporting arm in adjusted position in said bearing, a swinging cross head carried by the outer end of said supporting arm, an operating bar for said cross head, a rack segment carried by the supporting arm and coacting with the operating bar to maintain the same in adjusted position, a pair of adjustable clamping bars carried by the cross head, and a clamping screw carried by each of the clamping bars and engageable with the operating handle of the faucet.

1,387,716. FLYTRAP. FRANCES HOPLEY, Lampman, Saskatchewan, Canada. Filed Sept. 15, 1920. Serial No. 410,458. 1 Claim. (Cl. 43—122.)



A fly-trap comprising a hollow smooth-sided body of frusto-conical form, a foraminous cover for said body, resilient prongs on said cover holding the latter upon the said body, a base plate of resilient material provided with pockets, claws projecting up from said base plate into said pockets, and coöperating projections upon said body adapted to interlock with said claws to secure the base plate to the body at a distance from the latter.

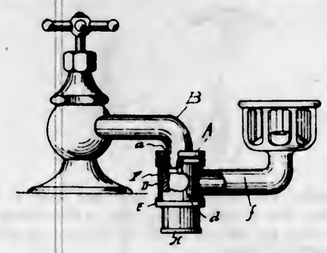
1,387,717. ENVELOP. GEORGE FRANCIS HOGAN, Chicago, Ill. Filed Oct. 3, 1919. Serial No. 328,175. 2 Claims. (Cl. 229—71.)



1. An envelop formed from a blank having at the junction line of the back flap and body a cutout or opening, symmetrical on opposite sides of the said junction line and of a length such that the end flaps will extend across the ends of the opening when the blank is folded whereby to form at each end of the opening in the completed envelop supports for the rear face of an article within the envelop.

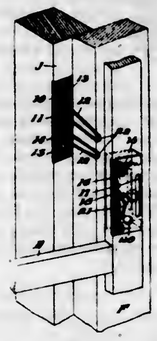
1,387,718. DRINKING ATTACHMENT FOR FAUCETS. WALTER S. HOLLAENDER, Cincinnati, Ohio. Filed June 30, 1919. Serial No. 307,726. 1 Claim. (Cl. 299—9.)

In a drinking attachment for faucets the combination of a pipe section having an opening in its side and an unobstructed passage within it, means for securing the pipe section to a faucet, a sleeve having a bubbler secured thereto and being mounted upon the pipe section so that the bubbler may be brought to register with or



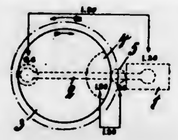
be out of registration with the opening in the side of the pipe section and a wire mesh mounted on the pipe section at the lower end of the unobstructed passage therein and adapted to divert water through the bubbler.

1,387,719. DOOR-FASTENER. OSCAR HUFFMAN, Portsmouth, Ohio. Filed Sept. 2, 1920. Serial No. 407,803. 4 Claims. (Cl. 292—76.)



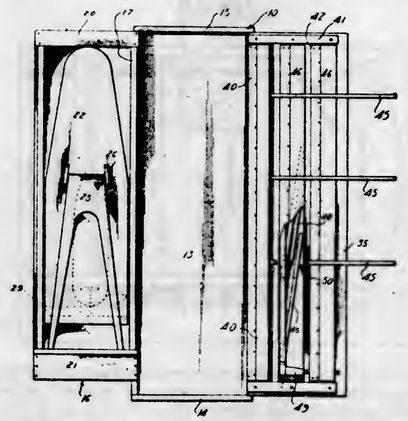
1. A device of the class described comprising a looped resilient member permanently positioned on a door jamb and embodying a resilient receiving portion, a door and a latch mechanism upon said door, said latch mechanism being formed with alined openings through which said resilient member projects, a stud carried by said latch mechanism which coöperates with said looped resilient member to frictionally retain the door in closed position, and means for positively engaging a projecting end of said resilient member, substantially as described.

1,387,720. BALANCING DEVICE FOR MOTORS. OSKAR OLOF HULT, Stockholm, Sweden. Filed Apr. 1, 1920. Serial No. 370,565. 8 Claims. (Cl. 74—5.)



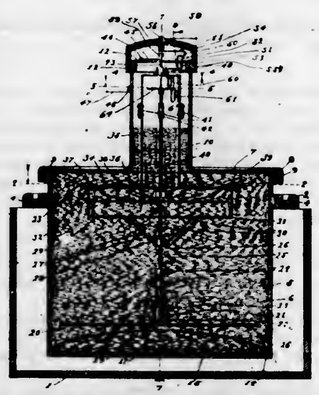
2. The combination with a motor provided with a shaft which is journaled at both sides of the crank portion of the shaft, of a balance weight mass rotatable with the motor shaft, and a balance weight mass rotatable in an opposite direction to and with the same angular velocity as the motor shaft, characterized in that the last mentioned balance weight mass rotates around the axis of the motor shaft.

1,387,721. IRONING-CABINET. FREDERICK W. HURST, Logan, Utah. Filed Feb. 18, 1920. Serial No. 359,488. 3 Claims. (Cl. 68—34.)



1. A device of the class described including a support U-shaped in horizontal section and mounted for swinging movement in a horizontal plane, a standard slidably carried by and within the support for movement in a vertical plane, a plurality of spaced arms pivoted to said standard and extending through the open side of the support, and inclined guiding and bracing strips secured in said support at the open side of the same to engage the under sides of said arms whereby vertical movement of the standard will cause the arms to rock upon said strips to project from the support or be housed entirely between the sides of the same.

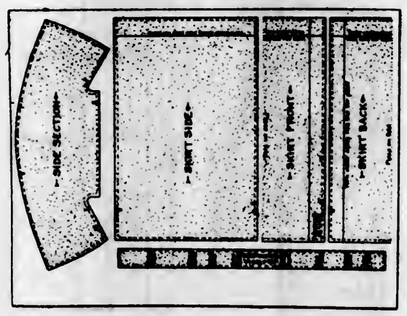
1,387,722. FIRING INSTRUMENT FOR MARINE MINES. LEMUEL J. HUSTED, Kansas City, Mo. Filed Oct. 20, 1917, Serial No. 197,724. Renewed Apr. 21, 1921. Serial No. 464,007. 10 Claims. (Cl. 102—3.)



9. In a contact making device, two magnetized bodies arranged one above the other, said bodies mounted to

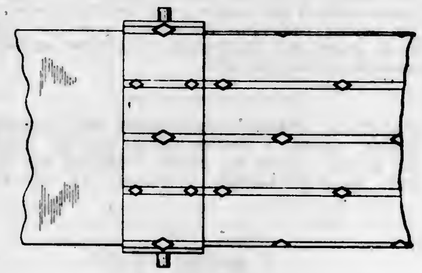
rotate around an approximately vertical and common axis, and electrical circuit closing contact arranged so that a movement of either of said bodies in a rotary direction will connect said contacts and close said electrical circuit.

1,387,723. GARMENT-PATTERN. FRANCIS HUTTER, New York, N. Y., assignor to The McCall Company, a Corporation of New York. Filed Nov. 27, 1920. Serial No. 426,781. 5 Claims. (Cl. 33—12.)



1. An article of commerce consisting of a paper pattern for a garment comprising a number of separate pattern pieces having printed thereon the outline to be followed in cutting the fabric, and having a margin outside of said outline.

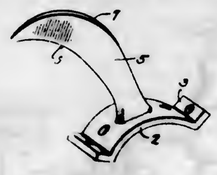
1,387,724. MANUFACTURE OF WALL-PAPER. HERBERT C. JARVIS, Toronto, Ontario, Canada. Filed Nov. 29, 1920. Serial No. 426,985. 2 Claims. (Cl. 101—426.)



1. A process of printing a strip of wall paper with a repeat pattern which consists in employing a printing roller formed with a repeat pattern and having its printing surface wider than the exposed width of the strip of paper when hung and printing said strip with the printing surface of the roller overlapping one edge of the strip, the paper being of a width not less than a suitable repeat of the pattern.

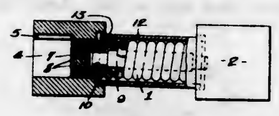
1,387,725. QUACK-GRASS DESTROYER. ALFRED L. JOHNSON, Boardman, Wis. Filed Sept. 15, 1920. Serial No. 410,575. 1 Claim. (Cl. 97—62.)

A blade adapted to be used for destroying grasses, comprising an arcuate shoulder portion, the ends of the said shoulder portion being flattened and forming a plane surface in alinement with the radius of the arc of the shoulder portion, a blade extending outwardly from the shoulder portion and located at a point approximately midway between the ends of the arcuate portion, the inner portion of the blade being disposed approximately in alinement with the radius of the arc of the shoulder portion and the outer portion of the blade being curved



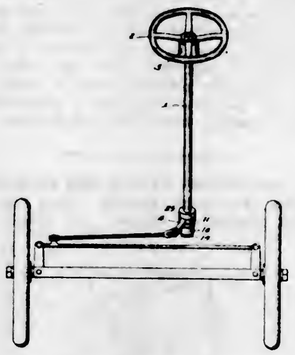
longitudinally, the blade being provided with a curved cutting edge and a curved rear edge, which edges intersect each other and the outer end of the blade in the form of an acuminate angle.

1,387,726. CUSHION POWER-TRANSMITTING ELEMENT. MAXWELL R. KARGE, Phoenix, N. Y., assignor to The Citizens National Bank, Fulton, N. Y. Filed Mar. 28, 1919. Serial No. 285,762. 15 Claims. (Cl. 64—30.)



15. A power transmitting element comprising a resilient coiled member having its coils so arranged that they bind on each other as friction plates when torque is applied to said member in one direction, a floating means within the coiled member and on which the coils contract when torque is applied to said member in one direction, and a floating sleeve encircling the coils and against which the coils expand and bind when torque is applied to said member in the opposite direction, substantially as and for the purpose specified.

1,387,727. STEERING-GEAR FOR MOTOR-VEHICLES. MAXWELL R. KARGE, Phoenix, N. Y., assignor to The Citizens National Bank, Fulton, N. Y. Filed July 9, 1920. Serial No. 395,002. 7 Claims. (Cl. 280—95.)



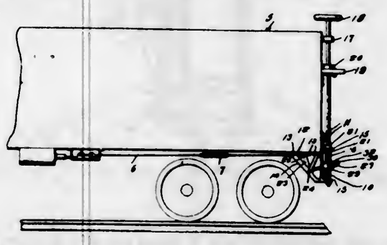
1. A steering gear comprising a steering column, an element for transmitting the movement of the steering column, and a torsion spring coiled about the steering column and connected at one end thereto and at its other end to said element, substantially as and for the purpose described.

1,387,728. HAND-COVERING. EDWARD KRAMER, Mishawaka, Ind. Filed Feb. 20, 1920. Serial No. 360,076. 1 Claim. (Cl. 2—9.)



A hand covering initially shaped to conform substantially to the shape of the human hand in repose and therefore having a cupped palm portion and curved finger portions, the said covering comprising a foundation of fabric, and a coating of rubber applied and intimately united thereto and continuously covering the back, palm, and finger portions of the foundation, the coating at the palm and inner sides of the finger portions being considerably thicker than at the back and the outer sides of the finger portions, whereby the relatively thick portion of the ocating and its intimate union with the non-elastic fabric foundation at the cupped palm portion and inner sides of the curved finger portions will serve to retain the hand covering in its initially molded shape.

1,387,729. RAILWAY-CAR BRAKE. EMMETT J. MCGORRY, Mauch Chunk, Pa. Filed Oct. 22, 1919. Serial No. 332,434. 4 Claims. (Cl. 74—120.)



2. The combination with a longitudinally movable actuating rod, of a supported plate provided with a longitudinal slot, a shaft journaled on the plate, a sleeve engaged with the shaft and movable longitudinally of the same, and a bell crank lever having one end operatively connected with the actuating rod and its opposite ends disposed in the slot and slidably connected with the sleeve.

1,387,730. TRAY FOR PHONOGRAPH-RECORDS. JOHN A. MCVICKAR, New York, N. Y. Filed Mar. 8, 1920. Serial No. 364,151. 1 Claim. (Cl. 274—1.)



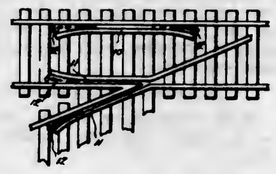
In combination, a phonograph with a turntable, a tray placed on said turntable, a record placed within said tray, a stylus cutting a shaving from said record, a deflecting member supported by said tray for collecting said shavings.

1,387,731. FILTER FOR CARBURETERS. JOHN A. MCVICKAR, New York, N. Y. Filed May 8, 1920. Serial No. 379,706. 2 Claims. (Cl. 183—62.)



1. In a device of the class described, the combination of an intake pipe for carbureters, an air filter secured to said pipe consisting of a casing having an opening in front covered with wire gauze, a pair of rollers placed in the rear of said casing, a filter fabric passing between said rollers, an arch-shaped, flat spring, said spring secured in said casing in front of said rollers and having its ends arranged to engage and hold said fabric taut against said wire gauze.

1,387,732. SAFETY DEVICE FOR USE IN CONNECTION WITH GUARD-RAILS AND SWITCH-FROGS ON RAILWAYS. JAMES A. MALOY, Columbus, Ohio. Filed Mar. 11, 1921. Serial No. 451,513. 2 Claims. (Cl. 238—379.)
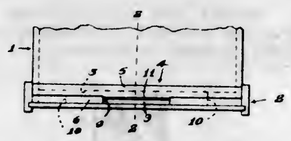


1. A safety plate for guard rails and switch frogs formed in one piece and wider at one end than the other, having a downwardly inclined flange across its widest end and having a downwardly projecting slotted side flange adjacent to and connected with one side of the end flange.

1,387,733. WELL-DRILLING BIT. PENELTON G. MIDGETT, Dallas, Tex. Filed Feb. 15, 1921. Serial No. 445,089. 3 Claims. (Cl. 255—61.)



1. In a well drilling bit, a head having spiral cutting edges and receding faces, and a point member removably inserted axially of the head and having a drilling point projecting from the head.

1,387,734. ENTRANCE FOR BEEHIVES. FREDERICK L. NITSCH and AUGUST MEIER, Syracuse, N. Y. Filed Aug. 27, 1919. Serial No. 320,159. 3 Claims. (Cl. 6—4.)



1. An entrance for bee hives comprising a housing in the general form of a quadrangle in cross section and being folded from a blank to have top, front, rear and end walls, the top wall forming the body and the front, rear and end walls being flaps bent downwardly at an angle to the body, the front and rear walls being formed with passages therethrough, substantially as and for the purpose set forth.

2. The combination of a bee hive having an elongated entrance slot at the bottom thereof, of an entrance comprising a housing extending along said slot and including a top, front and rear and end walls, the front wall being formed with a central entrance slot and the rear wall being formed near its ends with slots communicating with the slot of the hive, the slots of the front and rear walls of the entrance being out of alinement, substantially as and for the purpose described.

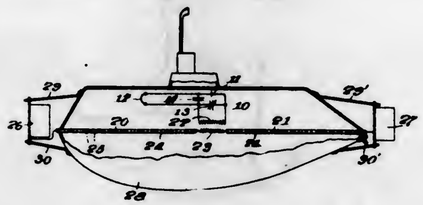
3. An entrance for bee hives comprising a housing in the general form of a quadrangle in cross section folded from a blank to have a downwardly inclined top, and front, rear and end walls, the inclined top forming a body and the front, rear and end walls being flaps bent downwardly at an angle to the body, the front and rear walls being formed with openings therethrough, and the portion of the front wall displaced to form the opening therein being bent upwardly to form a canopy or cover for the opening in the front wall, substantially as and for the purpose described.

1,387,735. TRAP. SAMUEL R. PAYNE, Oxford, Kans. Filed Nov. 26, 1920. Serial No. 426,536. 8 Claims. (Cl. 43—89.)



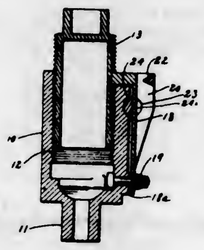
8. A trap including a barrel provided at its lower end portion with slots, bell cranks pivoted in said slots and carrying jaws, a sleeve slidable upon the barrel and provided with slots to receive the uppermost of the arms of the bell cranks therethrough, pins extending across the slots in the sleeve to coact with the bell crank arms for opening and closing the jaws, the barrel being provided with slots at its upper end portion, a cross pin carried by the sleeve to extend through said last mentioned slots, a spring within the barrel acting against said pin for projecting the sleeve and closing the jaws, a catch upon the barrel to coact with the sleeve for holding the sleeve retracted and maintaining the jaws open, means rotatable upon the sleeve for releasing the catch, and means reciprocable upon the sleeve for actuating the first means.

1,387,736. RADIOSIGNALING SYSTEM. JAMES HARRIS ROGERS, Hyattsville, Md. Original application filed May 2, 1917, Serial No. 165,875. Patent No. 1,349,103, dated Aug. 10, 1920. Divided and this application filed Mar. 8, 1920. Serial No. 364,224. 16 Claims. (Cl. 250—33.)



13. The combination with a vessel having a metallic hull, of a radio conductor extending longitudinally thereof substantially from one end of the vessel to the other and having its ends grounded, and radio signal instruments associated with said conductor at a point between its ends.

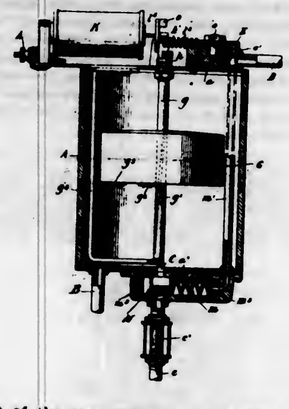
1,387,737. GREASE-CUP. OSMON ROYAL, Boston, Mass., assignor to Joseph A. Mahoney, Boston, Mass. Filed Nov. 27, 1918. Serial No. 264,455. 3 Claims. (Cl. 184—48.)



3. The combination with a grease cup of a plunger plug threaded therein formed with a notch extending the length thereof presenting an abrupt shoulder at the forward side thereof and a sloping shoulder at the rear side thereof, and a spring mounted dog to engage such notch, the cup having projecting cheek portions at each side of the dog housing and guarding the same, and a transverse turning pin for operating said dog mounted in said cheek portions.

1,387,738. AUTOMATIC VACUUM OIL-FEED FOR INTERNAL-COMBUSTION ENGINES. PAUL SCHINDLER, Jersey City, N. J. Filed Dec. 20, 1917. Serial No. 208,173. 8 Claims. (Cl. 123—196.)

1. In a device of the character described, a reservoir having an oil inlet communicating with the sump of an engine, an outlet communicating with the forward end of the crank case, and a duct communicating with the intake manifold of the engine, in combination with means controlled by the level of oil in the reservoir for placing the reservoir in suction communication with the intake manifold to draw oil from the sump into the reservoir through the inlet thereof and thereafter shutting off such suction communication to allow the oil to flow through

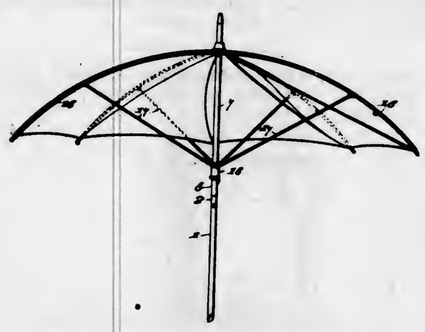


the outlet of the reservoir into the forward end of the crank case.

1,387,739. METHOD OF PREVENTING THE PASSAGE OF GASES OF COMBUSTION THROUGH THE WALLS OF FURNACES OR OTHER CONTAINERS. CHARLES M. SHIPMAN, Newark, N. J. Filed Dec. 26, 1916, Serial No. 138,959. Renewed Nov. 24, 1920. Serial No. 426,306. 4 Claims. (Cl. 18—60.)

1. The herein described method of rendering the walls of furnaces or other containers impervious to the passage of hot gases of combustion or the like, which consists in treating the said walls to a slurry of clay, silica, and water glass, and subjecting the so-treated walls to the action of hot gases of combustion, or the like.

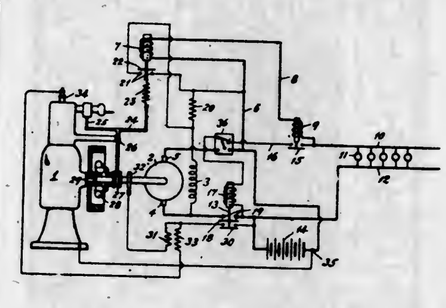
1,387,740. PARASOL. SIDNEY STEVENS, Millinocket, Me. Filed Aug. 23, 1920. Serial No. 405,357. 8 Claims. (Cl. 135—20.)



5. In a parasol, a sectional stick with a swivel joint, a swivel joint lock device and vanes within the top to cause rotation of the same.

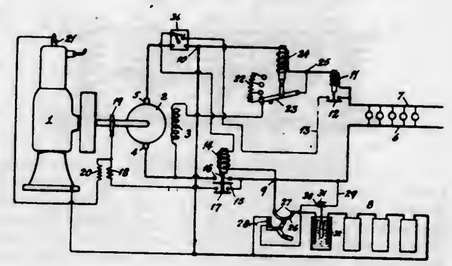
1,387,741. ELECTRIC GENERATING SYSTEM. CHESTER F. STRONG, New York, N. Y. Filed Mar. 31, 1920. Serial No. 370,064. 8 Claims. (Cl. 290—30.)

1. In an electric generating and distributing system, the combination of mains and translating devices thereon, an electrical generator having a field winding, a prime mover therefor, a storage battery in parallel with the translating devices on the mains, means controlled by the load for placing said battery in parallel with the generator, and means controlled by the load for speeding up the prime mover by increasing the fuel charge and correspondingly increasing the resistance of the field



winding of the generator, said first means being responsive to small load and said second means being responsive to a load beyond the torque capacity of the engine on its first speed.

1,387,742. ELECTRIC GENERATING SYSTEM. CHESTER F. STRONG, New York, N. Y. Filed Mar. 31, 1920. Serial No. 370,065. 6 Claims. (Cl. 290—30.)

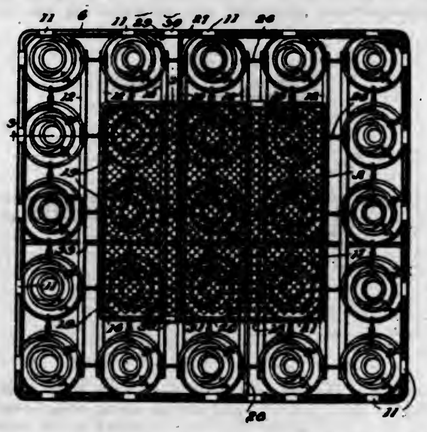


1. In a generating and distributing system, the combination of a generator having a shunt winding, a prime mover therefor having a nearly uniform torque at any charge for each speed over a considerable range, said prime mover being rigidly connected to the generator, a resistance adapted to be placed in series with the field winding of the generator, a load circuit, a storage battery in multiple with said load circuit, and a solenoid in series with the load and not with said battery, said solenoid being adapted to cut in one or more sections of said resistance as the load increases.

1,387,743. SPRING STRUCTURE. DESIRE H. VAN HOVE, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich. Filed Jan. 27, 1921. Serial No. 440,450. 7 Claims. (Cl. 5—29.)

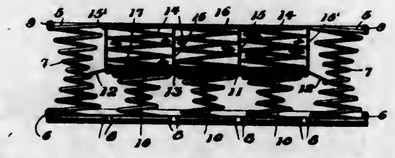
1. In a spring structure, a frame, border springs connected to the frame, a group of upper and lower springs arranged within the border springs, the upper springs of said group being of lighter gage wire than the lower set of springs and of lighter gage wire than the border springs, a frame arranged within said border springs and connected to said group of springs, a wire netting stretched across the last mentioned frame and secured

thereto and arranged between the upper and lower sets of springs of said group of springs, and connections be-



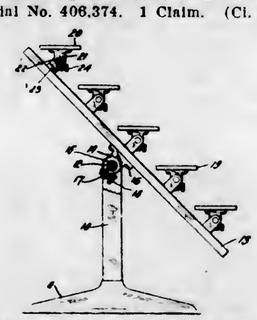
tween said second mentioned frame and certain of the border springs.

1,387,744. SPRING STRUCTURE. DESIRE H. VAN HOVE, Jackson, Mich., assignor to The Reynolds Spring Company, Jackson, Mich., a Corporation of Delaware. Filed Feb. 25, 1921. Serial No. 447,754. 10 Claims. (Cl. 5—29.)



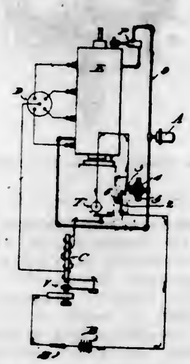
1. In a spring structure, an upper frame, a lower frame, border springs arranged within the upper and lower frames, a group of lower springs arranged between the frames and within said border springs, a group of upper springs arranged within the frame and within the border springs and mounted upon said lower group of springs, the upper springs of said group being of lighter gage wire than the springs of the lower group, and strips of fabric arranged between the springs of said upper group of springs to prevent noise.

1,387,745. DISPLAY-RACK. FRANK S. WALTON and REINHOLD SCHULTZ, New York, N. Y. Filed Aug. 27, 1920. Serial No. 406,374. 1 Claim. (Cl. 211—14.)



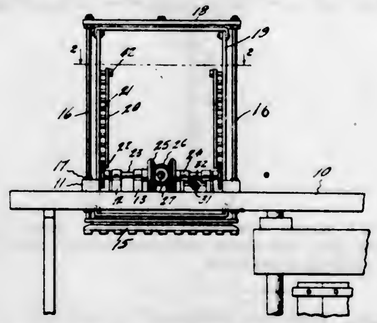
A display-rack comprising a stand, a horizontally extending cylindrical bar fixed thereto, a plate member, a plurality of split blocks fastened to the underface of said plate member having each a cylindrical horizontally disposed hole in which said bar is seated, a clamping screw extending through the split portion of each block for fixing said plate member in any adjusted position, a plurality of leg pairs projecting from the upper face of said plate member and fastened thereto, a horizontal spindle secured to each leg pair, a shelf-board associated with each spindle, a split block fixedly attached to the underface of each shelf-board having a horizontally disposed hole through which the respective spindle extends, and a clamping screw passing through the split portion of each of said last mentioned blocks.

1,387,746. ENGINE-STOPPING DEVICE. WILLIAM F. WEBB, Garden City, Kans., assignor of one-half to Elbert A. Orr, Garden City, Kans. Filed Apr. 5, 1920. Serial No. 371,340. 5 Claims. (Cl. 200—83.)



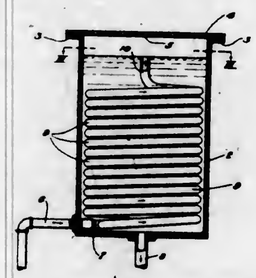
1. An engine stopping device comprising a support, relatively fixed and movable switch members mounted on said support and forming an engine controlling switch, a case mounted on said support and adapted for communication with a liquid circulating system of the engine, a stem extending slidably from the interior of said casing for moving said movable switch member to engine-running position and holding it normally in such position, and a pressure operated device in said casing acting on said stem to normally hold the latter in position to hold said switch in engine-running position.

1,387,747. COTTON-TRAMPER. JOSEPH E. WHITT, Italy, Tex. Filed Mar. 6, 1920. Serial No. 363,795. 4 Claims. (Cl. 100—25.)



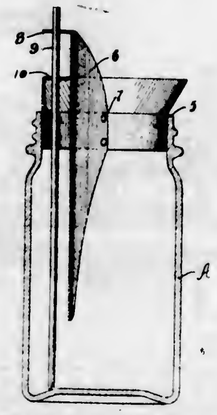
1. In a tramper, a reciprocating tramper head, a frame connected with the tramper head and longitudinally movable, means to guide the frame in its longitudinal movement, a shifting frame arranged within the first named frame and pivotally connected with the ends of the first named frame to turn upon an axis extending longitudinally of the first named frame, racks extending longitudinally of the shifting frame and connected therewith, toothed wheels arranged near the racks to engage therewith, said toothed wheels being adapted to effect a longitudinal travel of the racks and to engage with the opposite ends of the racks and when engaging with such opposite ends to shift the racks and their shifting frame upon the pivots of the shifting frame, stationary supporting means for the toothed wheels, means to drive the toothed wheels, and means to limit the longitudinal movements of the tramper head.

1,387,748. APPARATUS FOR REMOVING GASES FROM WATER. JOHN J. WILSON, McKeesport, Pa., assignor to Anti Corrosion Engineering Company, New York, N. Y., a Corporation of New York. Filed Feb. 24, 1921. Serial No. 447,542. 5 Claims. (Cl. 183—3.)



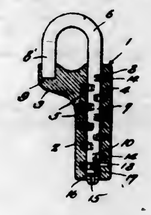
1. In an apparatus of the class described a tank having inlet and outlet connections and a gas escape vent, a helical conduit connected with said inlet connection, and arranged to deliver the liquid into said tank at approximately the water level, to thereby collect the dissolved gases during the passage of the liquid through said conduit and to discharge said gases at approximately the liquid level so that they will escape through said escape vent.

1,387,749. PROTECTING DEVICE FOR FRUIT-JARS AND THE LIKE. CHARLEY W. YOUNG, San Jose, Calif. Filed Mar. 21, 1921. Serial No. 454,167. 1 Claim. (Cl. 226—29.)



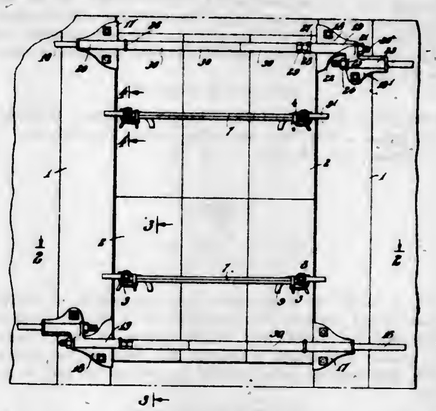
In a device of the class described, a funnel adapted to be applied to a fruit jar or the like, an elongated protecting shield supported within said funnel and curved in cross section to correspond to the curvature of the funnel, a rod supported behind said protecting shield and adapted to extend into a fruit jar to which the device may be applied.

1,387,750. COMBINATION-LOCK. JAMIE FULLER APPLETON, Keokuk, Iowa, assignor to Iowa Lock and Manufacturing Company, Burlington, Iowa. Filed July 16, 1919. Serial No. 311,371. 5 Claims. (Cl. 70—118.)



1. A lock having an integral casing provided with a longitudinal bore, and a transverse slot intersecting the bore, a shackle movable in said bore, the shackle having a transverse groove registering with the slot in the casing, the shackle at the base of the groove extending into the slot and a tumbler having right line movement in the slot into and out of engagement with the shackle.

1,387,751. SILO. VICTOR S. BAUDER, Fort Plain, N. Y. Filed Jan. 8, 1920. Serial No. 350,199. 5 Claims. (Cl. 20—1.4.)

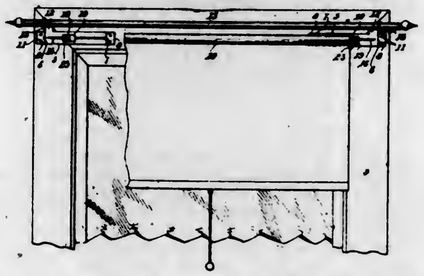


5. In a silo, the combination of door frame members, a door adapted to be secured between the same, a latch member loosely pivoted to said door, so as to be free to swing over the same and the adjacent door frame member, and to move inwardly toward and into engagement with the latter, said member having a tail, and means, comprising a pivoted step member, having a surface adapted to engage the tail of said latch member, for swinging said latch member about its pivot over said door frame member, and at the same time forcing said tail outwardly, to swing said latch member toward the face of said door frame member.

1,387,752. SHADE AND CURTAIN BRACKET. JULIAN BARANSKI, Trenton, N. J. Filed Feb. 18, 1921. Serial No. 445,967. 1 Claim. (Cl. 156—24.)

A combined shade roller and curtain pole supporting bracket including a main bracket member formed from a piece of sheet metal in general U-form so as to provide an elongated base and a pair of end legs with outwardly directed attaching flanges, the base being provided with an upward extension adjacent one of the legs, a curtain pole supporting member integral with and projecting forwardly from a side edge of said extension, and a shade roller supporting bracket member attached to and longitudinally slidable on said base, the other leg of said main bracket

member having an enlarged slot, the base being provided with an elongated longitudinal slot which is relatively narrow and which communicates at one end with the slot of said leg, and said shade roller supporting bracket member including a base or block form having grooves in its upper and lower edges for reception of the portions of the base at opposite sides of the slot of the latter, said block being insertible through the slot of said leg, said block



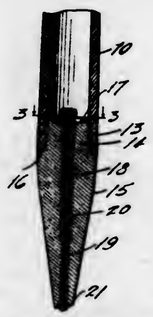
being provided with a plate-like extension bearing flatly against the outer face of said base, a headed bolt with its head engaging the rear face of the base and with its shank passing through the slot of the base and through the extension of the block, and a nut upon the outer end of the bolt shank so as to bear upon the outer face of the block extension and adjustable for clamping the roller supporting bracket member at any desired adjusted position relative to the base.

1,387,753. SPECTACLES. EDWIN BARNES, Sheffield, England. Filed May 17, 1920. Serial No. 382,029. 8 Claims. (Cl. 88—53.)



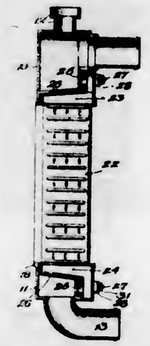
1. A hinge for a spectacle side comprising a flanged sheet metal member of approximately T-section forming flanges and a central web; the flanges being curved about a common axis which intersects the plane of the central web, said member being rigidly secured to the end of the side.

1,387,754. FOUNTAIN-BRUSH. WILLIAM P. BATES, Dallas, Tex. Filed Dec. 6, 1920. Serial No. 428,551. 2 Claims. (Cl. 15—49.)



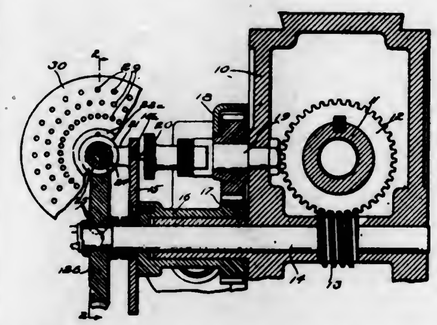
1. In a fountain brush, a reservoir for holding the liquid ink or dye and having a nozzle at its forward end, said nozzle being provided with a longitudinal duct extending through the forward end of the nozzle, said nozzle being provided at its forward end with a recess surrounding said duct and forming a surrounding contact edge spaced from the duct, an absorbent element extending longitudinally within the duct and having its forward end projecting into the recess, said surrounding contact edge being adapted to engage and compress the fabric while the fabric is in contact with the wick so that the liquid is prevented from spreading upon the fabric exterior of the surrounding edge.

1,387,755. AUTOMOBILE-RADIATOR. JACOB B. BEAM, Punxsutawney, Pa. Original application filed July 30, 1917, Serial No. 183,552. Divided and this application filed Aug. 17, 1918. Serial No. 250,397. 5 Claims. (Cl. 257—130.)



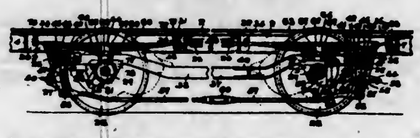
1. A radiator for motor vehicles embodying a casing comprising upper and lower water chambers and side walls connecting said chambers, removable independent tube sections communicating with said chambers and means including spanners adjustable laterally for engagement with the adjacent tube sections for holding the latter in position.

1,387,756. INDEXING DEVICE. JOHN R. BECKETT, Somerville, Mass. Filed May 16, 1919. Serial No. 297,702. 2 Claims. (Cl. 29—56.)



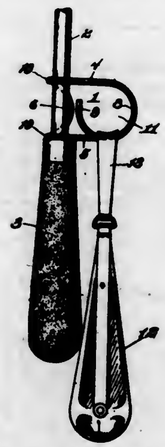
1. The combination with a work spindle, of an indexing device therefor consisting in a worm wheel fixed on said spindle, a worm in mesh therewith, a shaft on which said worm is fixed having fixed on the outer end thereof a relatively large worm wheel, a plate mounted adjacent said second worm wheel equipped with a bearing projection overhanging said worm wheel, a second worm mounted in such bearing projection to engage said second worm, an index arm mounted to turn with said second worm, and a relatively fixed index plate associated therewith and mounted transversely of the second worm wheel.

1,387,757. UNDERHANG FRAMEWORK OR CHASSIS CONSTRUCTION. HERSHEL A. BENEDICT, East Orange, and EDWARD M. MOLLER, Jersey City, N. J. Filed Feb. 7, 1920. Serial No. 356,888. 7 Claims. (Cl. 105—213.)



1. In an underhang frame-construction for railway-cars, and the like, a main body-frame consisting of a pair of longitudinally extending side-members, a plurality of laterally extending cross-bars between said side-members and secured at their end-portions to the respective side-members, angularly disposed bracing members secured at their respective end-portions to the respective end cross-bars of the frame and to the next intermediately disposed cross-bars, and a plurality of brackets extending laterally and outwardly from said side-members for securing thereto the frame-work of the car-body, brackets likewise secured to others of said cross-bars, a plurality of leaf-springs, and means connected with the said last-mentioned cross-bars for pivotally mounting the respective end-portions of said leaf-springs with relation to said frame-body.

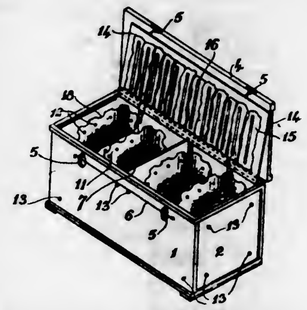
1,387,758. ATTACHMENT FOR UMBRELLAS. CARL W. BENNETT, Duboistown, Pa. Filed Apr. 16, 1921. Serial No. 462,021. 2 Claims. (Cl. 24—73.)



2. A device of the character described comprising a single length of wire bent to provide a pair of parallel arms, a clasp connecting said arms at one end and extending transversely between the same, lapping members at the opposite ends of the arms curved in opposite directions and forming a retaining space and a normally closed entrance way thereto, and a guard extending from one of said members into said space and between the same and the clasp.

1,387,759. BOX OR CARRIER FOR LIVE BIRDS. ALFRED ERNEST BERSEY, Dobwalls, Liskeard, England. Filed Dec. 27, 1918. Serial No. 268,569. 3 Claims. (Cl. 119—19.)

1. A case for the transit of live birds comprising a box, a lid hinged thereto, means for securing said lid, air holes in the sides and end of the box, a vertical division member, ledges on the ends of the box and on said division member, horizontal division members detachably resting on said ledges, and a plurality of strips of fabric secured to the undersides of the lid and the horizontal



division members, the ends of said strips depending loosely and freely.

1,387,760. ROTARY AUTOMATIC VALVE-CONTROLLING MECHANISM. ROBERT LEE BRIDGES, Lake Charles, La. Filed Aug. 16, 1919, Serial No. 317,959. Renewed June 28, 1921. Serial No. 481,166. 5 Claims. (Cl. 137—68.)

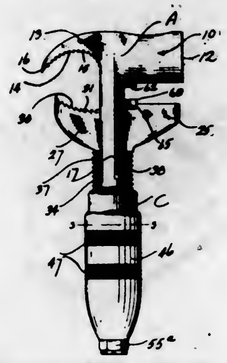


1. In an apparatus of the class described, the combination with a reservoir, a valve for controlling passage of fluid with regard to the reservoir, a valve stem adapted to be rotated to open and close the valve, a tubular plunger projected into said reservoir and having a direct screw connection with said valve stem and adapted to be forced in one direction by the pressure of the fluid in the reservoir to effect a closure of the valve, and a spring for forcing said tubular plunger in the opposite direction when the pressure of the fluid in the reservoir is less than the pressure of the spring.

1,387,761. WRENCH. JOHN CANELLES, Superior, Wis. Filed Dec. 2, 1920. Serial No. 427,830. 7 Claims. (Cl. 81—172.)

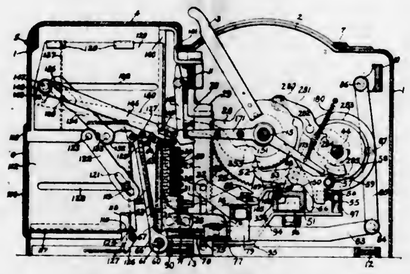
3. In a wrench, the combination, of a stationary frame including a wrench jaw and a pair of spaced guide legs; a movable frame, including a wrench jaw, and a screw threaded shank for engagement intermediate the guide legs; detachable means for preventing disconnection of

the movable frame from the stationary frame; and an advancing sleeve for engagement with the screw threaded



shank of the movable frame to advance the movable frame longitudinally with respect to the stationary frame.

1,387,762. PERFORATING MECHANISM FOR CASH-REGISTERS. THOMAS CARROLL and JOHN C. LOCKYER, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, (Incorporated in 1906), a Corporation of Ohio. Original application filed Feb. 5, 1915, Serial No. 6,244. Divided and this application filed July 5, 1919. Serial No. 308,887. 16 Claims. (Cl. 235—61.)

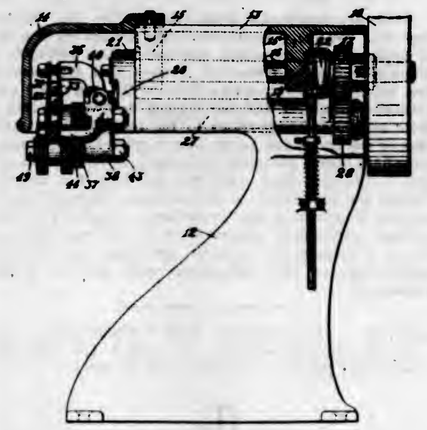


1. In a machine of the class described, the combination of accounting mechanism; manipulative means for controlling the entry of an item in the accounting mechanism; card punching mechanism; means for controlling the effectivity of the card punching mechanism from the manipulative means so that the card will be punched in correspondence with the entry made in the accounting mechanism; means for locking the accounting mechanism until a card is brought to punching position; and means for transferring a card when punched from the punching mechanism.

5. In a machine of the class described, the combination of accounting mechanism; card punching mechanism; common amount manipulative means for determining amounts to be entered in the accounting mechanism and the card punching mechanism; and means for effecting a relative adjustment between a card to be punched and its punching mechanism so that the latter will punch the card in any one of a number of fields in the card to be punched, said means also effecting the classification of the amount in the accounting mechanism.

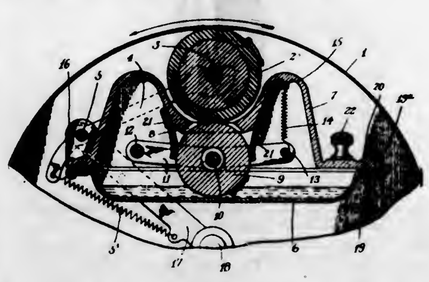
9. In a machine of the class described, the combination of accounting mechanism; means for entering an item through the accounting mechanism, on a card; means for transferring a card into position to receive the entry of an item through the accounting mechanism; and means for preventing an operation of the accounting mechanism unless a card is in position to be operated upon by the accounting mechanism.

1,387,763. MACHINE FOR LASTING RUBBER-SOLE FOOTWEAR. LOUIS A. CASGRAIN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 6, 1919. Serial No. 269,839. 23 Claims. (Cl. 12—12.)



1. A lasting machine having a pair of wipers movable toward and from each other between which the shoe to be lasted may be inserted, and means for positively rotating the wipers.

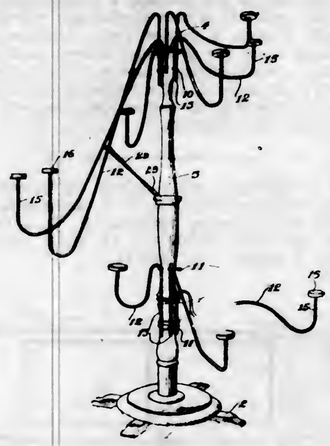
1,387,764. INKING DEVICE FOR DUPLICATING-MACHINES. WALTER CHIPPERFIELD, Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 14, 1920. Serial No. 403,446. 6 Claims. (Cl. 101—120.)



1. In a rotary duplicating machine, the combination of an ink container having a slot therethrough, an ink roller within said container and adapted to extend partly through said slot, and spring means mounted to press said roller toward said slot, said roller being adapted to close said slot when pressed into contact with the edges thereof.

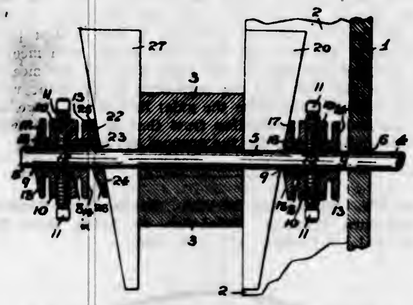
1,387,765. DISPLAY-STAND. RUDOLPH B. COLONNA, Hazleton, Pa. Filed Aug. 28, 1920. Serial No. 406,591. 3 Claims. (Cl. 211—24.)

1. A display stand comprising a post, vertically alined retainers on the post, a cup on the post below the retainers, display arms having depending terminals at their upper ends to be inserted through the retainers, and bracing arms having their lower ends engaged in said



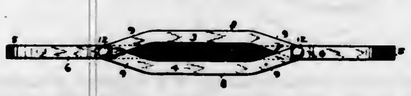
cup and their upper ends engaged with intermediate portions of the display arms.

1,387,766. HOLDING OR TYING MEANS FOR MOLDING APPARATUS. SAMUEL S. COLT, Orange, N. J. Filed Nov. 20, 1920. Serial No. 425,528. 16 Claims. (Cl. 25—131.)



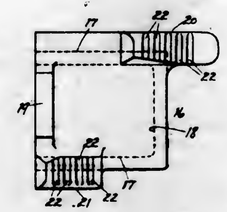
1. In a form or cribbing for use in the erection of concrete and similar structures, in combination with a cribbing wall, a wall-retaining member, a stringer-piece, and a tie-rod, a holding or tying means mounted upon said rod, said means being provided with an angular wedge-receiving surface, and a wedge movable upon said surface for bringing the assembled elements into holding alinement.

1,387,767. AUTOMOBILE-BUMPER. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed May 20, 1921. Serial No. 471,163. 9 Claims. (Cl. 293—56.)



4. A bumper made of a plural number of metal bars, each having a reversely bent portion adapted to provide spring loops, said bars being assembled with the loop of one bar interengaged with the reversely bent portion of another bar.

1,387,768. BRAKE-BEAM. SETH A. CRONE, East Orange, N. J. Filed Dec. 15, 1920. Serial No. 430,909. 6 Claims. (Cl. 188—231.)



1. In a brake beam, a flanged compression member, a strut formed of a forged metal folded bar encompassing said compression member and deflected angularly adjacent to said flanges to form angularly disposed parallel sides for the brake lever, and a securing plate driven between said flanges and the adjacent angular portions of the strut and having at opposite sides on one face thereof wedges engaging the diagonally opposite inwardly turned portions of the strut.

1,387,769. MOLDING APPARATUS. FRANK BROUGHTON DAVIS, Erie, Pa. Filed Aug. 1, 1919. Serial No. 314,746. 11 Claims. (Cl. 22—69.)

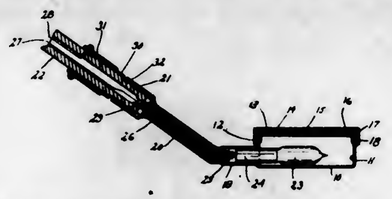


1. In a molding apparatus, the combination of a mold; a movable air compressor adapted to be moved and operated manually; and means carried by the compressor and movable therewith for connecting the compressor with the mold.

1,387,770. DENTAL MIRROR. HARRY S. DOLBEY, Providence, R. I. Filed Mar. 20, 1920. Serial No. 367,311. 3 Claims. (Cl. 32—27.)

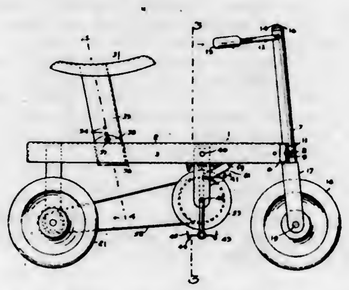
1. An instrument of the class described, comprising an operating handle, an electric lamp supported at one end thereof, an opaque member adapted to be positioned between said lamp and the eye of the observer to cut

off the direct rays, a mirror on the outer surface of the opaque member serving to reflect the image of the work,



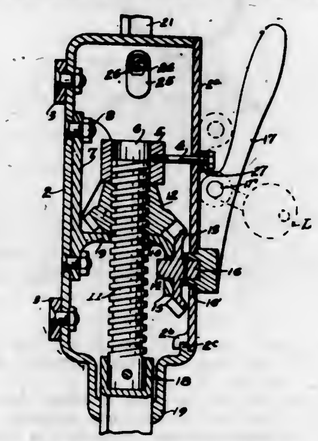
and a space being provided about the edge of said member to permit the passage of light rays thereabout.

1,387,771. CHILD'S VELOCIPEDE. GEORG EKLUND, Berkeley, Calif. Filed Apr. 2, 1919. Serial No. 287,028. 4 Claims. (Cl. 208—32.)



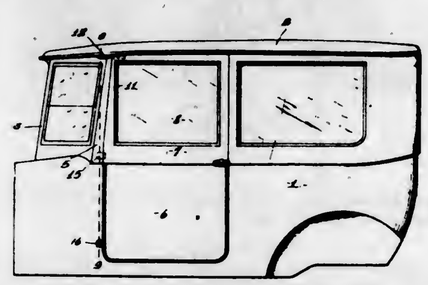
1. In a velocipede, the combination with a body, of a yoke secured to and extending downwardly therefrom, a wheel carrying shaft journaled in said yoke, a pulley on said shaft, a second yoke pivoted to said body, a second shaft journaled in said second yoke, a pulley on said second shaft, an endless member connecting said pulleys, means for rotating said second shaft, and means connected to the body and to said second yoke for effecting pivotal movement of the latter to adjust the tension of said endless member.

1,387,772. TIRE-CARRIER. EDWARD E. ELLIS and HERBERT A. THOMAS, Alhambra, Calif. Filed Mar. 4, 1920. Serial No. 363,152. 2 Claims. (Cl. 224—29.)



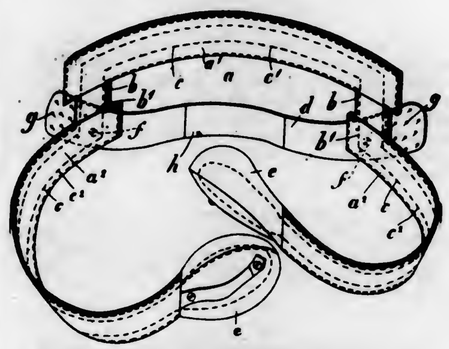
1. In a tire carrier, a housing, fixed arms projecting radially therefrom, a bracket fixed within said housing, a bearing member positioned above said bracket, a radially arranged arm having its inner end adapted to move through the wall of the housing, a threaded shank secured to the inner end of said movable arm and disposed within said housing, a beveled pinion screw-seated on said threaded shank and positioned between said bracket and bearing, a handle having a portion rotatably arranged in the wall of the housing, and a beveled pinion carried by the inner end of said handle and engaging the teeth of the first mentioned beveled pinion.

1,387,773. VEHICLE-BODY-DOOR CONSTRUCTION. WILLIAM H. EMOND, Syracuse, N. Y., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y., a Corporation of New York. Filed Nov. 15, 1919. Serial No. 338,254. 3 Claims. (Cl. 296—44.)



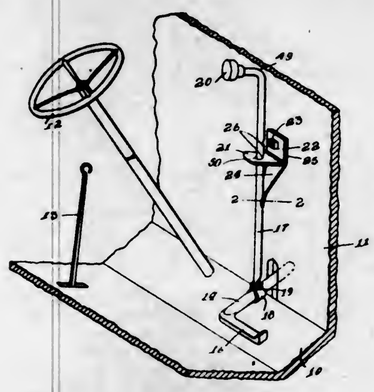
1. A vehicle body including a top having a rearwardly inclined front wall and a door including a lower portion in the body and an upper portion in the top, the door being hinged at its front edge and the upper portion of the door in the top including a sash and a panel movable in the sash, the front edge of the sash meeting the inclined rear edge of the front wall and the meeting edges of the sash and the rear edge of the front walls being inclined away from the axial line of the hinge and at less rearward inclination from that of the front wall, substantially as and for the purpose set forth.

1,387,774. SURGICAL TRUSS. BRUNO PAUL FAIRDEN, Hamburg, Germany. Filed Jan. 23, 1918. Serial No. 213,441. 2 Claims. (Cl. 128—105.)



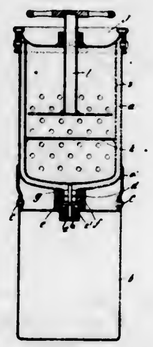
1. A truss frame consisting of a plurality of sections, flat in the same general plane, one of said sections adapted to extend across the human back, and two sections adapted to run across the hips and connected to the ends of the back section by upwardly extending sections.

1,387,775. ATTACHMENT FOR AUTOS. CLARENCE H. HEADLEY, Sherburn, Minn. Filed Apr. 9, 1920. Serial No. 372,537. 1 Claim. (Cl. 74—81.)



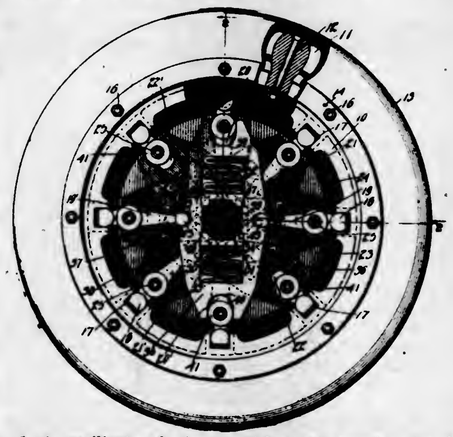
In a device of the class described, a vertical dash board; a vertically movable clutch pedal; a guide projecting rearwardly from the dash board; a vertical rod disposed approximately parallel to the dash board and slidably mounted in the guide, the rod being pivoted at its lower end to the pedal, and having a notch in that edge which is adjacent to the dash board, the notch coacting with the guide to hold the rod and the pedal depressed, the rod being provided at its upper end with a handle projecting away from the dash board; and a depending spring having its upper end bound between the guide and the dash board, the lower end of the spring exerting a pressure on the rod, the lower end of the spring being trough-shape in cross-section, to receive the rod and to direct the notch into engagement with the guide.

1,387,776. WASHING OR CLEANING MACHINE. ALBERT HENNING, Leytonstone, England. Filed Sept. 9, 1919. Serial No. 322,747. 2 Claims. (Cl. 68—37.)



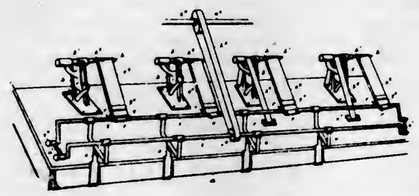
2. In a washing or cleaning machine, a lower chamber adapted to contain cleaning fluid having a valved opening in its top, means for holding the valve closed, a receptacle having an opening communicating with the said first named opening, a basket in the said receptacle, and means whereby the said basket operates the valve controlling the passage between the receptacle and chamber for opening said valve.

1,387,777. RESILIENT WHEEL. FERDINAND G. HENRY, New York, N. Y. Filed Mar. 3, 1920. Serial No. 363,036. 16 Claims. (Cl. 152—28.)



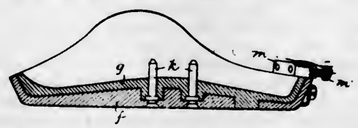
1. A resilient wheel comprising an annular tread structure, a radially yieldable bearing structure and positive atop centering mechanisms.

1,387,778. MANUALLY-OPERATED BUFFING DEVICE FOR THE INNER FACES OF RINGS. MARTIN JELALIAN, Cranston, R. I. Filed Nov. 18, 1920. Serial No. 425,022. 4 Claims. (Cl. 51—79.)



4. In combination with a buffing bench having standards arranged upon the top of the same and provided with spindles, an oscillatory crank shaft forwardly to said standards and having outwardly projecting flat portions arranged opposite to the spindles of said standards, a ring casing device for said spindles each comprising two sections connected together and adapted to receive setting rings therein and mounted upon said spindles, an operating strap, passing over said ring casing and having a clip holder at each end thereof and connected to the outwardly projecting flat portions of said shaft, and a collar secured upon the end portion of each of said spindles of said standards to keep the operating straps in position upon said ring casing.

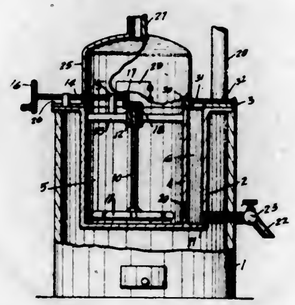
1,387,779. DIES FOR USE IN THE MANUFACTURE OF THE TOPS OF CYCLE AND SIMILAR SADDLES. JAMES JELLEY, Coventry, and HENRY JELLEY, Birmingham, England. Filed July 6, 1918. Serial No. 243,721. 4 Claims. (Cl. 18—34.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A composite female mold or matrix for use in the manufacture of cycle and like saddle tops comprising an

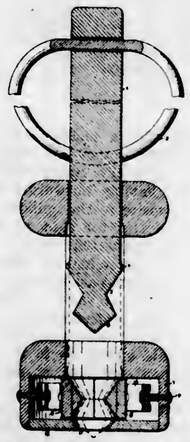
outer shell of hard metal and a lining of soft metal cast thereon and constituting the matrix proper and laterally adjustable abutments on the edge of the mold.

1,387,780. MELTING-POT. LOUIS W. JONES, Los Angeles, Calif. Filed Dec. 6, 1920. Serial No. 428,731. 1 Claim. (Cl. 22—71.)



A melting pot having a melting chamber and a reservoir chamber with an annular flange surrounding said chambers, and a hood received over said melting chamber and having a flange received over the reservoir chamber and coöperating with the first flange to form an air tight closure, the flange of the hood having an opening therein communicating with the reservoir chamber, and a closure for said opening.

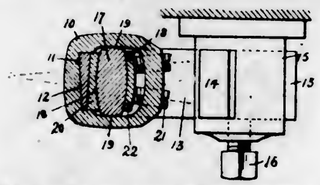
1,387,781. SAFETY-CLEVIS. JOSEPH EDGAR KING, Nantyffyllon, near Bridgend, and BENJAMIN MORGAN, Caerau, near Bridgend, Wales. Filed July 6, 1920. Serial No. 394,264. 4 Claims. (Cl. 97—4.)



1. The combination, in the D links of a shackle for mine cars, of the recessed and tapered pin 1, with the bored and countersunk lock 8, housed in the lower eye 7 of the shackle, substantially as specified.

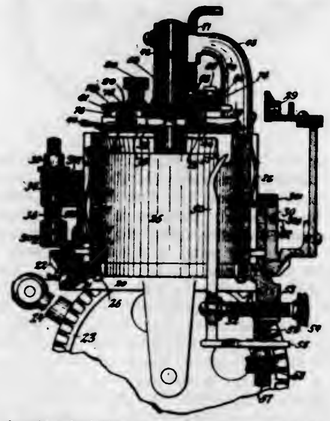
1,387,782. TOOL-HOLDER. GEORGE F. KRIEGER, Grand Rapids, Wis. Filed Oct. 18, 1919. Serial No. 331,579. 6 Claims. (Cl. 29—96.)

1. A tool holder comprising a hollow head having an internal tool seat, a support extending into the head with reversely curved faces, a pad member having one face curved to correspond to and bear against one of the curved side faces of the support and the other face adapted to bear against a tool when engaging in the seat, and clamp screws tapped through the head with their center



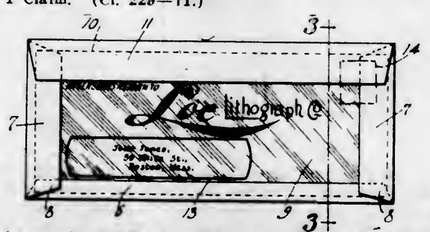
lines radially of the curvature of the support and operating to hold the same in the head.

1,387,783. KNITTING-MACHINE. OSCAR F. C. KUNAU, Buffalo, N. Y. Filed Sept. 12, 1919. Serial No. 323,335. 7 Claims. (Cl. 66—22.)



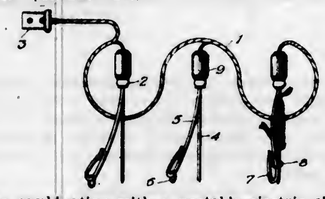
1. A circular knitting machine comprising a cylinder provided with a plurality of vertical needles, a shell rotatable about said cylinder and provided with a cam which actuates said vertical needles, a dial arranged above the cylinder and provided with a plurality of horizontal needles, and means for actuating said horizontal needles comprising a tappet plate rotatable with said shell and having a fixed section which is radially immovable relatively to the axis of rotation of said plate, an adjustable section which is connected with the fixed section but adjustable thereon in a direction radially to the axis of said tappet plate, a cam mechanism for actuating said horizontal needles comprising inthrow cam sections which are mounted on said radially adjustable section of the tappet plate, and an interchangeable outthrow cam section mounted on said fixed tappet plate section.

1,387,784. DISPLAY-ENVELOP. AARON LEVAUR, New York, N. Y. Filed July 12, 1919. Serial No. 310,314. 1 Claim. (Cl. 229—71.)



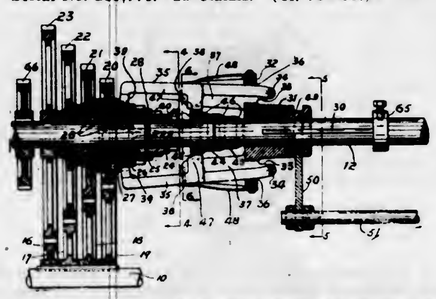
An envelop having a window extending substantially its entire area and having return instructions printed on the window thereof, a letter sheet having a business head at one end and the addressee's name in proximity thereto, the sheet being folded to disclose the business head and addressee's name in the window so that the business head will serve as a return address to be read in connection with the "return" instructions, and an inclosure frame printed on the window and inclosing the addressee's name and address.

1,387,785. HAIR-CURLER. ELIN M. LINDBERG, Duluth, Minn. Filed Apr. 2, 1921. Serial No. 457,846. 4 Claims. (Cl. 219—24.)



1. The combination with a portable electric circuit, of a plurality of spaced curling irons within said circuit.

1,387,786. CHANGE-SPEED MECHANISM. HARMON E. LINDBLADH, Boston, Mass. Filed Apr. 14, 1919. Serial No. 289,776. 13 Claims. (Cl. 74—59.)



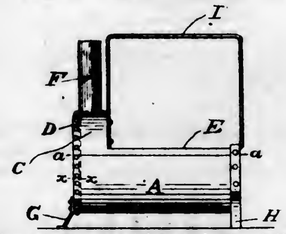
7. The combination with change-speed mechanism having pairs of gears any one of which may be brought into driving relation, each pair having an engaging portion, of a connecting member arranged to move into coöperation with any one of the engaging portions to render the corresponding pair of gears effective, and means including a contact member movable independently of the connecting member and arranged to successively aline said connecting member with the engaging portions.

1,387,787. SWITCH-LOCK. HORACE P. LIVERSIDGE, Bala, Pa. Filed Aug. 8, 1918. Serial No. 248,853. 25 Claims. (Cl. 200—169.)



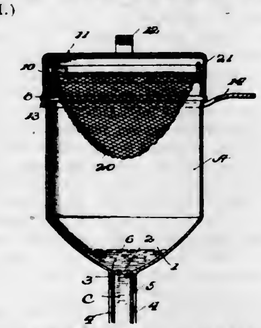
13. In a switch lock, a knife switch blade, a contact engaged thereby, a pair of locking jaws wholly on the outer side of the blade, and bearings for the jaws extending in planes parallel to the width of the knife switch blade.

1,387,788. PORTABLE STOVE FOR ORCHARDISTS. HALL LIVINGSTON, Auburn, Calif. Filed Nov. 19, 1920. Serial No. 425,063. 1 Claim. (Cl. 126—66.)



A portable stove comprising a horizontally disposed body portion fashioned to form a horizontal top plane surface above the firebox for a part only of the length of the said body portion, the part of the body portion at the rear of the top plane surface being extended upwardly above said plane surface and with the lower part of the extended body portion inclosing a relatively large combustion space, a smoke or draft pipe secured to the said upwardly extending rear part of the body portion, means as legs for supporting the body portion in a horizontal position, and a suitable handle for carrying the stove.

1,387,789. COMBINED STRAINER AND FAT-SEPARATOR. HARVEY E. LYONS, Baltimore, Md. Filed Feb. 6, 1920. Serial No. 356,657. 1 Claim. (Cl. 210—161.)



A strainer and fat separator for soups, comprising a container having an exterior circumferential reinforcing rib and an interior circumferential reinforcing rib, both ribs being located adjacent the top of the container whereby a reinforced rim is provided, a cover telescoping over said container and seating at its lower edge on said exterior rib, a container support receiving the said container as far as the exterior rib, and a strainer within the container and having handles and supported on the interior reinforcing rib whereby said handles project above the top edge of the reinforced rim of said container, said cover having a depth sufficient to permit the top thereof to clear said handles.

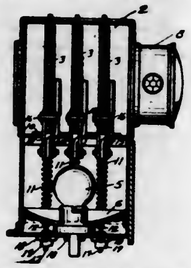
1,387,790. COLLAPSIBLE CENTER MOLD FOR HOLLOW WALLS. PETER MCCAFFERY, San Bernardino, Calif. Filed Apr. 7, 1920. Serial No. 372,071. 1 Claim. (Cl. 25—131.)

A collapsible mold comprising four separately formed members each of which is substantially L-shaped in cross section, the inner vertical edges of the short legs of said L-shaped members being cut away to facilitate assembly and separation of the members, hooks and hook engaging members arranged on the inner faces of both legs of each member for retaining said members in assembled

relation, a hook arranged on the inner face of the long leg of each section, a hook engaging member seated in the long leg of the opposite section, which last mentioned hooks and hook engaging members retain the assembled members in proper spaced relation, and a closure member adapted to be removably positioned in the upper end of said mold.

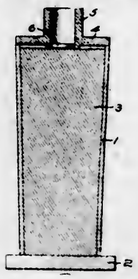


1,387,791. DIRECTION-INDICATOR. RODNEY N. MCCLURE, Los Angeles, Calif. Filed Jan. 2, 1920. Serial No. 348,970. 11 Claims. (Cl. 116—44.)



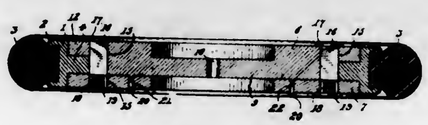
3. A housing that is provided with a transparent top, a vehicle direction signal apparatus having a plurality of sign members arranged within said housing and movable through the transparent top thereof, a retractile spring connected to each sign member for resisting its outward movement and tending to return it to the housing, a source of light and a reflector arranged beneath said sign members for illuminating the faces thereof; a main setting instrument; a series of operating connections for the said members selectively operable by the said instrument; a locking mechanism for the said instrument; which locking mechanism includes a pair of pivotally mounted spring actuated detents that are adapted to engage movable parts of the setting instrument when said parts are shifted to move one of the signs into signaling position; and means actuated by movable parts of the vehicle with which the device is associated for tripping the locking mechanism, the said instrument having individual parts for respective of the connections and coöperative therewith irrespective of the others.

1,387,792. ART OF CASTING INGOTS. FRANK E. MCKENNA, Lockport, N. Y. Filed Mar. 17, 1916. Serial No. 84,924. 2 Claims. (Cl. 22—216.)



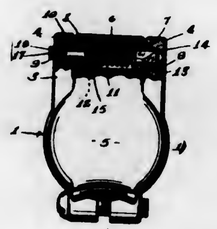
1. A process of casting steel ingots applicable in particular to crucible steels comprising the following steps:—teeming a body of metal substantially to fill the mold, adding neutral fluxing material before complete solidification of said body and teeming a second volume of like metal providing a sink head centrally of the ingot homogeneously united with the metal of the first teeming through the action of said fluxing material.

1,387,793. AUTOMOBILE-WHEEL. STEPAN MADJAR, Ogdensburg, N. J. Filed Nov. 24, 1920. Serial No. 426,180. 2 Claims. (Cl. 301—63.)



1. A vehicle wheel of the type described comprising a pair of disk web sections, transverse bolts for securing the web sections against relative movement, a rim section having a relatively short inwardly directed flange clamped between said web sections and a tire mounted on said rim section.

1,387,794. SPRING-BARREL CONSTRUCTION. FLORIAN J. MANTEL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Sept. 7, 1918. Serial No. 252,993. 5 Claims. (Cl. 220—35.)



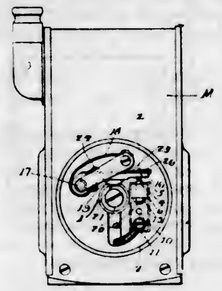
1. The combination of a pair of bearings spaced apart, a spring barrel located between the bearings and formed with a slot opening through one end thereof, a spring located in the barrel and having an arm at one end for entering the slot as the spring moves in the barrel and thereby anchoring one end of the spring to the barrel, the spring also having an arm at its other end, and a spindle extending through the bearings, the barrel and the spring therein, and having a slot opening through its ends for receiving the last mentioned arm of the spring during axial movement of the spindle through the spring and thereby anchoring the spring to the spindle, substantially as and for the purpose specified.

1,387,795. DOOR-STOP. GEORGES GUSTAVE OCTAVE MARICHAL, Paris, France. Filed Oct. 6, 1919. Serial No. 328,713. 1 Claim. (Cl. 200—54.)



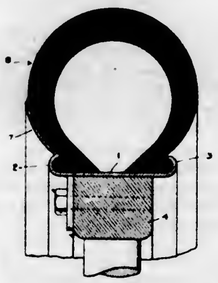
A door stop comprising a base plate having an upturned end provided with an opening, and also having upturned side lugs at the opposite end; an insulating block secured on said upturned end, and provided with electrical contacts; an upper plate having a downturned end arranged in said opening, an inclined inner end, and downturned side lugs on opposite sides of said inclined end and pivotally connected to the first-named lugs, and a circuit-closing plate attached to the front end of said upper plate, extending through said opening and arranged to engage the electrical contacts when the inclined end of said upper plate is depressed by a door.

1,387,796. INTERRUPTER FOR IGNITION DEVICES. CHARLES THOMAS MASON, Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed Apr. 2, 1918. Serial No. 226,292. 10 Claims. (Cl. 200—19.)



1. An interrupter mechanism for ignition systems, comprising a pair of main contacts one of which is movable for breaking a circuit for producing an ignition spark, a pair of auxiliary contacts in multiple with said main contacts and one of which is movable, said auxiliary contacts being timed so as to open before and close after said main contacts, means for supporting and operating said contacts whereby said auxiliary contacts are caused to rub one on the other after they are in engagement.

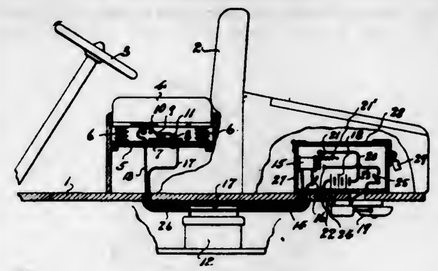
1,387,797. TIRE-GUARD. HENRY M. A. MILLER, San Francisco, Calif. Filed Apr. 5, 1921. Serial No. 458,802. 1 Claim. (Cl. 152—13.)



Means for protecting or guarding the outer side of a vehicle tire from being injured or unduly worn incident to its contact with curbing or other objects, which means comprises a thin, resilient, annular and smooth metal guard plate adapted to be carried by the rim of a tire and to extend around the outer side of and in close engagement with the outer side of the tire throughout the entire area of the inner side of said guard member, the outer edge of said guard member being of less thickness than the remaining portion thereof and disposed approximately half way between the base of the tire and the tread portion thereof.

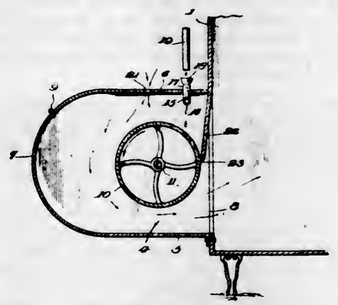
1,387,798. AUTOMOBILE THIEF-ALARM. WILBUR J. MILLER, Newark, N. J. Filed Dec. 17, 1919. Serial No. 345,475. 2 Claims. (Cl. 200—85.)

1. In a circuit breaker for use in automobile thief alarm actuating circuits, the combination with an automobile seat of a fixed contact, a fulcrum lug adjacent to said fixed contact, a seat cushion, springs intermediate said seat and said cushion for holding the latter in normally raised position, and a leaf-spring contact on the under side of said cushion, said leaf-spring contact normally extending across said fulcrum lug with its free end in engagement with said fixed contact but adapted to be rocked on



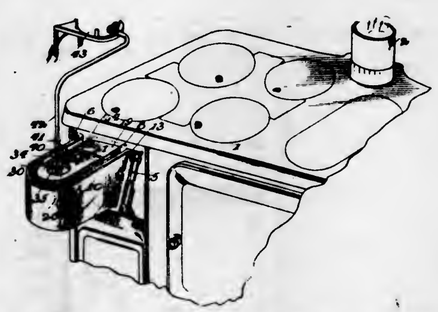
said fulcrum lug by a downward movement of said cushion to raise said free end away from said fixed contact.

1,387,799. OIL-BURNER. VIRGIL H. MILLS and JOHN H. T. MILLS, Hubbard, Tex. Filed Jan. 14, 1920. Serial No. 351,375. 5 Claims. (Cl. 158—28.)



1. In apparatus of the class described, a generating and combustion chamber, a moving thermal flashing element in said chamber, means for supplying fuel to the said element, and means for admitting air to the chamber in currents flowing downwardly over and above the said element.

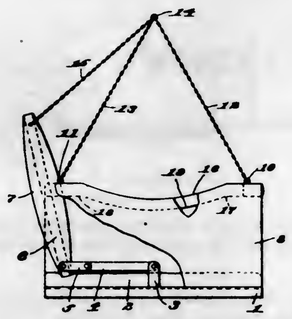
1,387,800. OIL-BURNER. VIRGIL H. MILLS, Hubbard, Tex. Filed Feb. 6, 1920. Serial No. 356,658. 5 Claims. (Cl. 158—91.)



1. In apparatus of the class described, a combustion chamber having upper and lower intake and outlet draft passages, a thermal flashing element rotatably mounted with relation to the intake passage and embodying [illegible]

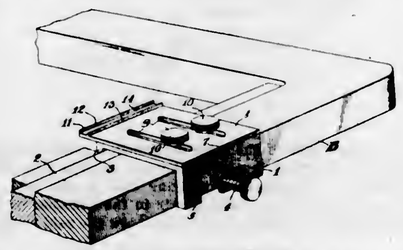
to be acted upon by the air currents entering the passage and thereby effect rotation of the said element, and means for supplying fuel directly to the said flashing element.

1,387,801. HAMMOCK. HARRY MINTZ, Mattapan, Mass. Filed Oct. 8, 1920. Serial No. 415,542. 5 Claims. (Cl. 5—61.)



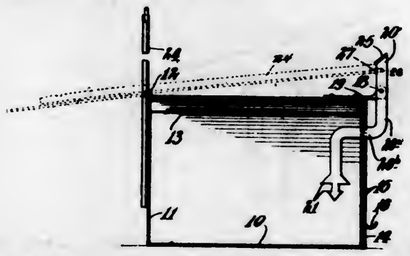
1. A hammock of the class described comprising a seat frame and an end bar, a strip of fabric secured to said frame at the bottom and to said bar at the top, and said bar having a downwardly curved central portion whereby the vertical dimensions of said fabric is greater at the ends than at the central portion.

1,387,802. GAGE FOR MAKING PRINTING EQUIPMENT. EMIL E. NOVOTNY, Logan, Pa., assignor to John Stogdell Stokes, Philadelphia, Pa. Filed Sept. 27, 1919. Serial No. 326,768. 13 Claims. (Cl. 33—184.5.)



1. A gage comprising a base, means for clamping the base to a suitable support, a sliding member adjustably mounted on the base, means for fastening the member on the base in a selected position, and a marking element projecting from the plate.

1,387,803. ANIMAL-TRAP. ONUFRY PALAHNUK, Ford, Ontario, Canada. Filed Jan. 11, 1921. Serial No. 436,411. 5 Claims. (Cl. 43—61.)

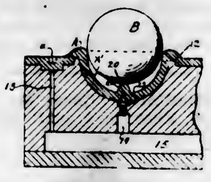


3. An animal trap comprising a box having a vertical slot in one end, a bait lever fulcrumed between its ends outside said slotted end of the box, said lever occupying a generally vertical position with one arm thereof presenting a horizontally projected intermediate portion extending through said slot, said arm being adapted to carry bait, a hinged door on the opposite end of said box, a spring normally urging said door to closed position, a fixed arm on said door extending rearwardly over the box when the door is open, and means on the other arm of said lever adapted to engage said door arm to retain the door open.

1,387,804. SAWDUST SOAP. FRANK W. RAICY, Modesto, Calif. Filed Feb. 2, 1920. Serial No. 355,670. 4 Claims. (Cl. 87—5.)

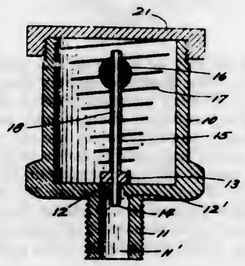
1. A cleansing compound comprising a paste, containing particles of water saturated wood fiber, and protective fragile coatings surrounding said particles, a soap distributed in said paste, and soapy water globules incorporated in the paste and surrounded by fragile coatings, the quantity of water contained in the paste being sufficient to permit the paste to be used for a cleansing operation without employing extraneous water.

1,387,805. PROCESS OF MAKING RUBBER ARTICLES HAVING CORES AND APPARATUS THEREFOR. FRED THOMAS ROBERTS, Cleveland Heights, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Dec. 29, 1919. Serial No. 348,095. 26 Claims. (Cl. 18—19.)



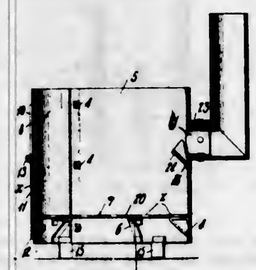
1. The method of making rubber articles having cores, comprising seating rubber stock for the shell of the article in two mold cavities, bringing such rubber-lined cavities into conjunction with an interposed core occupying one of the cavities and exhausting the air between the rubber shell and core.

1,387,806. LUBRICATING DEVICE. WATSON B. RULON, Philadelphia, Pa., assignor to Harold Perot Keen, Bellevue, Del. Filed Sept. 20, 1920. Serial No. 411,656. 3 Claims. (Cl. 184—69.)



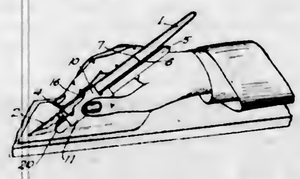
2. A lubricating device comprising a lubricant containing receptacle including a discharge duct, a tiltably mounted spring pressed valve having a passage therethrough for controlling the passage of lubricant through said duct, a hollow staff connected to and projected above said valve into said receptacle, a hollow stem connected to and projected below said valve into said discharge duct, the opening through said staff valve and stem being in register and a weight adjustably mounted upon the free end of said staff.

1,387,807. KETTLE-FURNACE. OSCAR PERDUE SANDERS, Waco, Tex. Filed June 1, 1920. Serial No. 385,796. 1 Claim. (Cl. 126—345.)



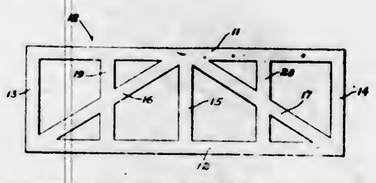
A kettle furnace comprising a sheet metal member having bolt openings disposed in pairs near the vertical edge and a pipe opening, of a crescent shaped deflector held below said opening, a door section having a suitable opening held to said member, bolts adjustably holding said door section, a door slidably held to said section, the metal below said door opening being formed into an outstanding lip to provide a rest for said door, a grate circular in outline, and brackets held to said member to support said grate, all as and for the purpose set forth.

1,387,808. ADJUSTABLE SUPPORT FOR PENS AND THE LIKE. SAMUEL SCHRAGO, Los Angeles, Calif. Filed Oct. 11, 1920. Serial No. 416,164. 6 Claims. (Cl. 120—107.)



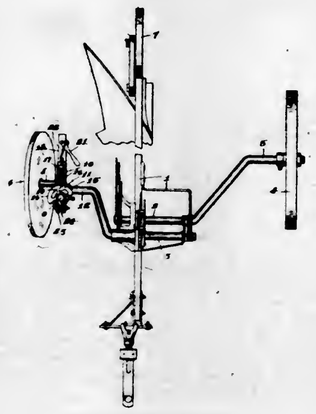
6. The combination with a penholder, of a sleeve having a portion that passes around said penholder, said sleeve being arranged to slide for a limited distance on the penholder, a supporting rod carried by said sleeve and arranged below and parallel with the penholder, and said supporting rod being grooved longitudinally for the reception of parts of said sleeve.

1,387,809. BUILDING-TILE. REUBEN G. SIMONS, Los Angeles, Calif. Filed Oct. 6, 1917. Serial No. 195,124. 2 Claims. (Cl. 72—41.)



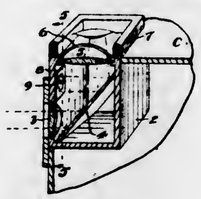
2. A building tile including parallel side walls, parallel end walls, a brace wall parallel to the end walls and disposed midway therebetween, two diagonal walls extending respectively from the corners formed by one side wall and said end walls to the corners formed by the other side wall and said brace wall, and intermediate brace walls interposed between the end walls and the middle brace wall and intersecting and formed integral with said diagonal walls.

1,387,810. SULKY-PLOW. SHELDON S. SPIER, Syracuse, N. Y., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y., a Corporation of New York. Filed Nov. 28, 1919. Serial No. 341,072. 1 Claim. (Cl. 97—36.)



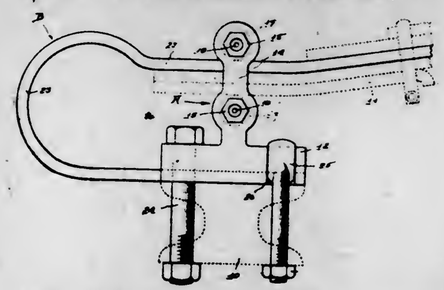
In a sulky plow, the combination of a caster wheel at one side thereof, an axle on which the caster wheel is mounted having an upwardly extending portion, a bearing in which the upwardly extending portion is journaled, a support mounted on the bearing and having clamping means by which it is secured to the bearing, the support being adjustable to different radial positions about the bearing, a sector mounted upon the upper end of said portion of the axle and overlying the said support, the sector having a notch and plane faces on opposite sides of the notch, a spring pressed pawl mounted on the support and coacting with the sector and movable into the notch thereof, and a handle mounted on said support and connected to the pawl to withdraw the same against the action of its spring, substantially as and for the purpose described.

1,387,811. EXPOSURE-METER AND FINDER FOR CAMERAS. PETER W. STONEA, Pasadena, Calif. Filed Mar. 16, 1920. Serial No. 366,345. 3 Claims. (Cl. 88—23.)



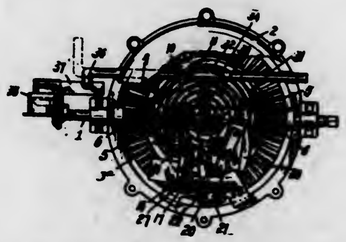
1. The combination with a camera having a compartment in its front upper corner, an object lens in the front wall of said compartment, a view lens in the top of said compartment, a light excluding wall disposed on the top of the camera about said view lens, a reflector within the compartment between the object lens and the view lens, means for regulating the size of the opening in which the object lens is located, and there being a distinctive mark formed on the front wall of the compartment above the object lens and below the view lens.

1,387,812. SHOCK-ABSORBER. JAMES ISAAC SUMNER, Minneapolis, Minn., assignor of one-half to Anton G. Schimming, Minneapolis, Minn. Filed Apr. 5, 1920. Serial No. 371,247. 6 Claims. (Cl. 267—41.)



2. In a device of the class described, the combination with a cantilever spring and axle of a vehicle of shackle secured to said axle and designed to receive said spring and permit the same to move horisontally with respect to said axle and a looped member connected to the spring at one end and to the axle at the other end thereof, said member being designed to yieldingly hold said spring and axle in normal horisontal relation.

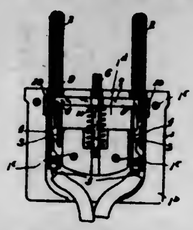
1,387,813. GEARING. JULES BYRON TAYLOR, Toledo, Ohio. Filed Aug. 13, 1919. Serial No. 317,168. 3 Claims. (Cl. 74—50.)



1. In a mechanism of the class described, a disk having in its side a spiral groove, a gear wheel connected to said disk and operable when rotated to impart rotation to said disk, a drive shaft having constant rotation in one direction, pinions loose on the shaft and in mesh with the gear wheel at opposite sides of its axis, a clutch member adapted to operatively engage either of said pinions with said shaft, a shifter element operable to move said member to engage first one and then the other of said pinions, a movable gravity member operable when at a predetermined point in its movement in either direction to act by gravity on said element to effect a shifting thereof, a lever having a part traveling in the groove of said disk, a link connected to the lever and having a longitudinally extending slot therein in which a part of said gravity member works whereby a tipping of the gravity member in one direction or the other to gravity operating position is effected by a movement of said link first in one direction and then the other, and members adjustably carried by the link at the ends of its slots to vary the permissible relative movement of the gravity member relative to the link.

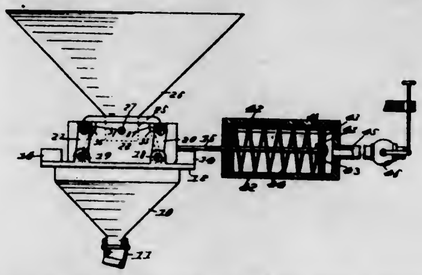
1,387,814. WALL-PLUG. ABRAHAM TEN BOSCH, The Hague, Netherlands. Filed Oct. 25, 1920. Serial No. 419,480. 3 Claims. (Cl. 173—361.)

3. A wall plug including a holder, a plurality of pins mounted in said holder and each consisting of a plurality of sections, one section of each pin being movable relatively to the other section of the pin, a cross-head cooperating with said pins to move the movable sections of the pins away from the other sections of said pins,



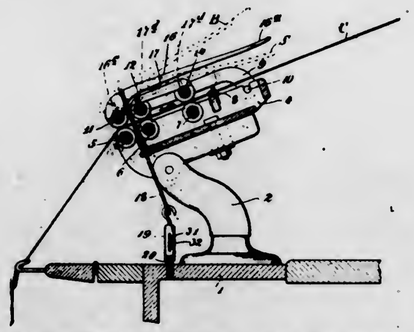
and a sliding pin engageable with said cross-head and adapted to actuate the same when the first mentioned pins are inserted in a contact socket and the cross-head pin engages said contact socket.

1,387,815. SANDING DEVICE. GEORGE M. TOWLE, Middletown, R. I. Filed Jan. 11, 1921. Serial No. 436,459. 3 Claims. (Cl. 291—24.)



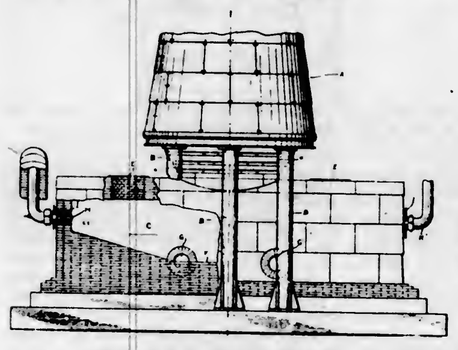
1. In a sanding apparatus, a discharge chute, a hopper, an element between the hopper and the chute for carrying the hopper, means for movably mounting the element on the chute, means for discharging sand from the element to the said chute and for moving the said element, and means for operating the sand delivering and element operating means.

1,387,816. PRESSURE MECHANISM FOR ROLL-STANDS. EDWARD J. VALES and JAMES T. BISHOP, Augusta, Ga. Filed Oct. 7, 1919. Serial No. 329,116. 4 Claims. (Cl. 19—33.)



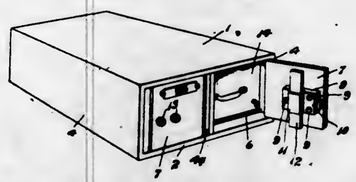
4. In a pressure mechanism for roll stands the combination of a primary pressure applying member comprising an extended hand lever and a secondary pressure applying member both effective upon rolls the primary member having a fulcrum portion arranged to engage the secondary member and a separate fulcrum portion arranged to engage a roll, a pressure sustaining member effective upon the primary pressure applying member to transmit pressure to the secondary member, said secondary member including a longitudinal guide forming a restricted seat for the fulcrum of said primary pressure applying member, while said primary and secondary pressure applying members are under the influence of said pressure sustaining member.

1,387,817. APPARATUS FOR THE MANUFACTURE OF PHOSPHORIC ACID AND COMPOUNDS OF THE SAME. WILLIAM H. WAGGAMAN and THOMAS B. TURLEY, Washington, D. C. Filed July 15, 1920. Serial No. 396,611. 4 Claims. (Cl. 263—27.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



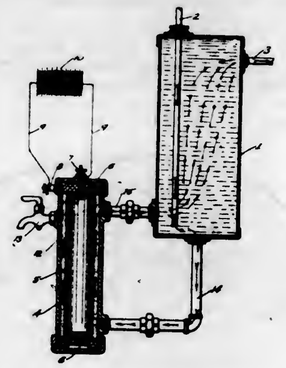
1. A combination blast and open hearth furnace for producing phosphorus and phosphoric acid provided with a shaft or charge chamber in which the reacting charge is heated to a smelting temperature, by means of fuel introduced, discharging into a slag chamber which slopes from each end toward the center and the length of which is greater than its width, and the width at its base greater than the width at its top, a hearth in said slag chamber sloping from each end toward the center on which the material discharging from the shaft is maintained in a molten condition by means of flames and hot blasts introduced into said slag chamber and playing above the slag, means for withdrawing the gaseous products of the reactions from the shaft and hearth, and means for removing the slag exhausted of its phosphoric acid content, substantially as described.

1,387,818. SAFETY-DEPOSIT APPLIANCE. PETER M. WEGE, Grand Rapids, Mich., assignor to Invincible Metal Office Furniture Company, Manitowoc, Wis., a Corporation of Wisconsin. Filed Dec. 7, 1920. Serial No. 428,868. 4 Claims. (Cl. 109—12.)



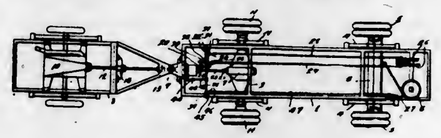
1. In a device of the character described, a receptacle having an open side, a door for closing said open side, a lock attached to the rear side of the door, a bar permanently connected to the rear side of the lock and positioned vertically, and stop means on the upper and lower sides of the receptacle against which the upper and lower ends of the bar come when the door is closed, substantially as and for the purposes described.

1,387,819. ELECTRIC WATER-HEATER. ARTHUR MAX WERNER, San Jacinto, Calif. Filed Sept. 23, 1920. Serial No. 412,128. 4 Claims. (Cl. 219—39.)



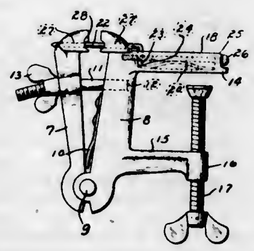
1. A heater for fluids including a casing, an electrode in said casing, connections to said casing for fluid circulation upwardly through the same, a tank, means for withdrawing fluid from the top of said casing into said tank, and an auxiliary discharge means at the top of said casing for directly withdrawing the heated fluid.

1,387,820. MOTOR-VEHICLE, TRAILED POWER. HOWARD WILCOX, Woodstock, N. Y. Filed Jan. 9, 1920. Serial No. 350,399. 5 Claims. (Cl. 180—14.)



1. A motor driven vehicle comprising a main load carrying vehicle getting its tractive power from its load and a trailing vehicle, an engine carried by the trailing vehicle and means whereby the entire power will be transmitted from the engine to the differential of the rear axle of the main load carrying vehicle thereby driving the wheels of the main vehicle.

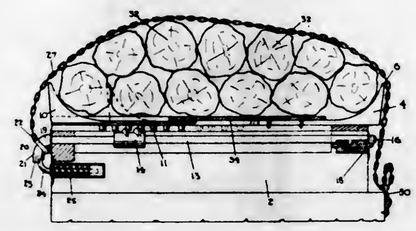
1,387,821. VISE. DAVID A. WILKINSON, Overland Park, Mo. Filed Nov. 29, 1920. Serial No. 426,937. 2 Claims. (Cl. 81—32.)



1. A vise comprising a movable jaw and a stationary jaw, a guide slidably mounted in said jaws and extending entirely therethrough, a bolt and a nut mounted thereon for operating the movable jaw, means for holding

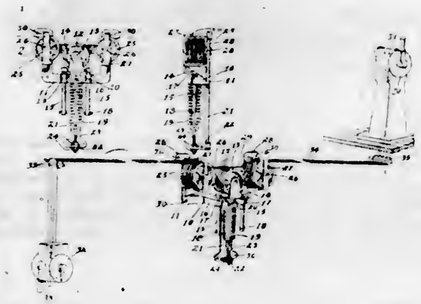
the guide to the vise, and clamping means carried by the stationary jaw for securing the device to a work bench.

1,387,822. LOGGING-CAR. HAYDN OSWALD WILLIAMS, Sperling, and WILLIAM JOSEPH MILLER, Vancouver, British Columbia, Canada. Filed Aug. 13, 1920. Serial No. 403,292. 10 Claims. (Cl. 105—385.)



8. In a logging car, a laterally movable log chock provided with teeth, and a rotary locking member provided with teeth adapted to mesh with the teeth of said chock to hold the latter in adjusted position.

1,387,823. SLACK-WIRE COMPENSATOR FOR SHIPS' TELEGRAPHS. FRANK W. WOOD, Montclair, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 9, 1920. Serial No. 364,472. 12 Claims. (Cl. 64—5.)



1. For use in a mechanical ship telegraph comprising a transmitting and a receiving station, and relatively long stretches of transmission cords connecting the stations, a unitary tensioning apparatus adapted to be located at a suitable point between or remote from the stations and comprising a guide pulley engaging one of the cords, a tensioning pulley engaging the cord and movable to take up slack, and resilient means applied to said tensioning pulley to take up the cord slack.

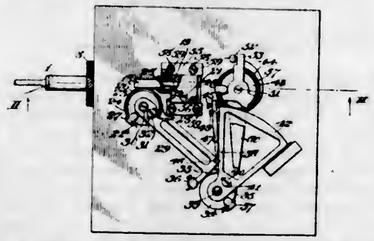
1,387,824. STOVE. JOHN ZUKOWSKI, Hamtramck, Mich. Filed Mar. 4, 1919. Serial No. 280,653. 1 Claim. (Cl. 126—68.1.)

In a heating stove, a tapering magazine suspended therein, having an air chamber surrounding the magazine, a grooved guide-way formed in the lower end of the magazine, a horizontal slide mounted in the grooved guide-way and closing the lower end of the magazine, and a curved shoulder formed on the inner wall of the magazine at the side thereof opposite the inner end of the slide and having a flat lower face frictionally engaging the upper face of the slide to scrape the upper face of the



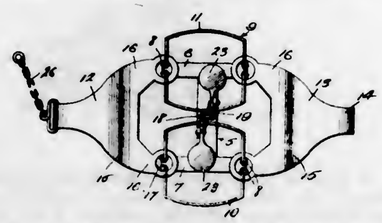
slide during movement thereof for directing the discharge of coal in the magazine into the fire pot.

1,387,825. MECHANICAL MOVEMENT. ERIK H. ALDEBORGH, Poughkeepsie, N. Y., assignor to C. E. Johansson, Inc., Poughkeepsie, N. Y., a Corporation of Delaware. Filed Nov. 5, 1920. Serial No. 422,041. 17 Claims. (Cl. 74—14.)



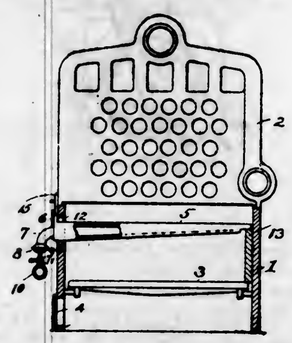
8. Means for converting a slight rectilinear motion into an extended circular motion comprising a reciprocating member having a plane surface, a rocking member having a concentric surface arranged to coact with said plane surface, a flexible connecting element located between and extending along said conting surfaces, means for adjusting the plane surface toward and away from the concentric surface and for squaring the plane surface with respect to said concentric surface.

1,387,826. ANIMAL-TRAP. JOHN F. ARNETH, Washington, D. C. Filed Mar. 22, 1921. Serial No. 454,592. 6 Claims. (Cl. 43—90.)



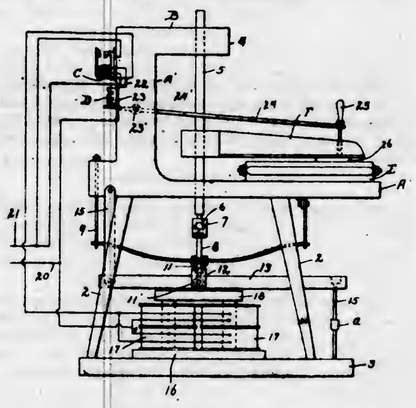
1. A trap comprising a plurality of pairs of jaws, spring means for closing the jaws, latch means for each pair of jaws, and means connecting said latch means whereby movement of one latch means operates the other latch means.

1,387,827. GAS-BURNER-ATTACHING MEANS. JOSEPH H. BACON, Lakewood, Ohio, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 30, 1917. Serial No. 165,346. 5 Claims. (Cl. 158—99.)



5. A combustion chamber having an opening in a wall thereof, a burner extending through said opening, the forward end of the burner being supported in the said opening, a second support within the combustion chamber and adapted to support the rear end of the burner, the said opening in the combustion chamber being slightly higher than the height of the burner of the corresponding portion thereof, said burner having a flange adjacent its forward end which lies upon the outside of said opening and engages the wall of the combustion chamber to close said opening when the burner is inserted, a downwardly extending pipe carried by the burner, a mixer carried by said pipe, a gas header and valved pipe associated therewith, the said valved pipe having a slip connection with the mixer.

1,387,828. UPPER-LEATHER-CUTTING MACHINE. STANLEY J. BEERS, Union, N. Y. Filed Nov. 29, 1919. Serial No. 341,457. 2 Claims. (Cl. 164—25.)



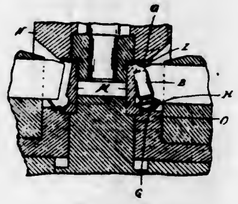
1. In an upper leather cutting machine, a table, a standard from the rear portion of the table surface and having a forwardly projected arm alined with said surface, a shaft vertically mounted in said arm and table and slidable therethrough, a leaf spring carried by the table, pivotal connection between said shaft and spring for support of said shaft, solenoids disposed beneath said pivotal connection and connected thereto for downward actuation of said support and shaft against the tension of said spring, a cutting block on said table, a hammer carried by said shaft and laterally adjustable thereon over said block, a circuit including said solenoids, and a manually operable circuit closer on said standard for energizing said solenoids whereby the hammer is actuated.

1,387,829. ROLLER-BEARING CAGE. JEREMIAH BINGHAM, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 28, 1917. Serial No. 193,716. 2 Claims. (Cl. 64—62.)



1. In a roller bearing cage, cooperating connector rings each comprising a pressed sheet metal annulus having a bearing portion and a relatively narrow grooved portion, said grooved portion having slits or apertures predeterminedly spaced therein, and means engaging in said slits or apertures for connecting said rings to each other, said means bearing at spaced points upon the walls of said grooved portions.

1,387,830. METHOD OF ASSEMBLING ROLL-HOLDING-CAGES. JEREMIAH BINGHAM, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 28, 1917. Serial No. 193,718. 7 Claims. (Cl. 29—84.)

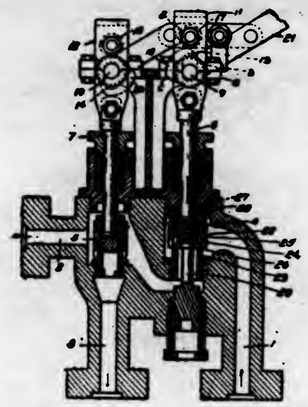


1. The method of assembling roller-holding cages, comprising the clamping of a series of individual roller holding cells with their axes in exactly predetermined relation to each other and rigidly connecting said cells while in that relation.

1,387,831. VALVE. CHARLES A. BORCHERT and MICHAEL G. O'NEIL, Woodlawn, Pa., assignors to Protected Seat Valve Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Sept. 17, 1920. Serial No. 410,982. 4 Claims. (Cl. 138—16.)

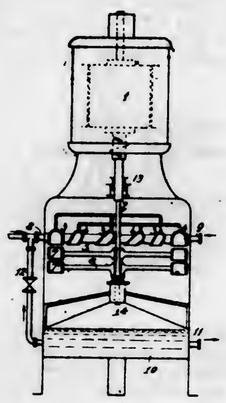
1. The combination with a valve casing provided with an inlet and an outlet and with a port affording communication therebetween, of means for controlling flow through said port, said means comprising a sleeve member provided with a valve seat and a closure member provided with a corresponding valve surface, said closure member being further provided with a flange adapted when the parts are assembled and the valve is approaching closed position to engage the exterior surface of said sleeve in continuous contact around the whole extent thereof and as to move telescopically thereon, and with

a second extension adapted when the valve is approaching closed position to engage in continuous circumferential contact the interior surface of said sleeve and to move



telescopically thereon, and means for moving one of said members relatively to the other, substantially as described.

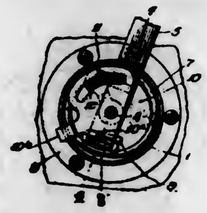
1,387,832. MEANS FOR INTERMIXING FLUIDS. OTTO F. BRUMANN, Leysin-Village, Switzerland. Filed Sept. 18, 1919. Serial No. 324,550. 4 Claims. (Cl. 259—108.)



1. In a device of the character described, a shaft, a turbine wheel thereon to which a driving medium is fed, means for feeding the driving medium to the wheel, whereby the wheel is rotated and the medium is mixed, and means coupled to the turbine to compensate for any change in speed due to the pressure fluctuations in the driving medium.

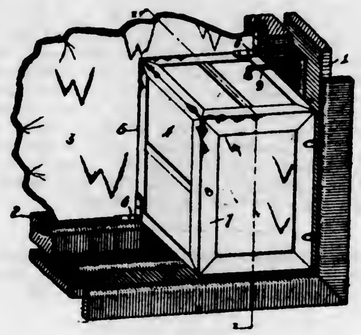
1,387,833. LEVER-COUNTERBALANCE. FOREST CHENEY, Chicago, Ill., assignor to Cheney Talking Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Nov. 26, 1919. Serial No. 340,814. 8 Claims. (Cl. 217—60.)

1. In a lever counterbalance, a lever, a fulcrum for said lever, a mounting carrying said fulcrum, an anchoring member carried by said mounting, and a coil spring having its respective ends connected with the lever and said anchoring member; said anchoring member being



adjustable about the lever fulcrum and having means for holding it to its adjustment.

1,387,834. COOLING APPARATUS. CHARLES S. CLARKSON, Toledo, Ohio. Filed Nov. 20, 1920. Serial No. 425,311. 3 Claims. (Cl. 45—104.)



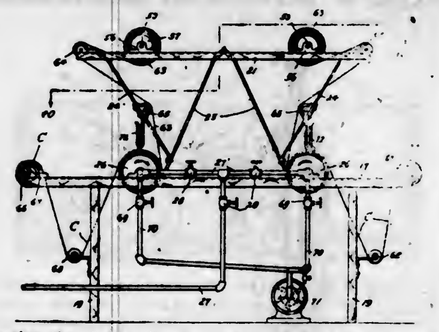
1. The combination with a window pane exposed at its outer side to the outside atmosphere, of means forming a cooling chamber and having an open side bearing closely against the inner side of the window pane and closed thereby.

1,387,835. PROCESS OF PURIFYING HYDROCARBON OILS. ERNEST B. COBB, Jersey City, N. J., assignor to Standard Oil Company (of New Jersey), Bayonne, N. J., a Corporation of New Jersey. Filed Apr. 28, 1920. Serial No. 377,264. 6 Claims. (Cl. 196—26.)

1. The process of treating and purifying hydro-carbon oils which consists in subjecting the oil to the action of strong sulfuric acid, removing oil soluble sulfonated compounds from the treated oils, again treating the oil with strong sulfuric acid and washing the treated oil with isopropyl alcohol.

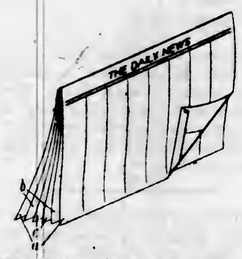
1,387,836. CLOTH-SPONGING MACHINE. BATTISTA CORTESE, New York, N. Y. Filed Dec. 22, 1920. Serial No. 432,560. 1 Claim. (Cl. 26—7.)

In a cloth sponging machine, the combination with a main frame, a steam drum journaled thereon, an auxiliary frame above the main frame, a leader roller journaled thereon, and a leader attached to the roller, of means to actuate the leader to unwind it from the drum, and a pair of open ended supports above the drum and attached to the auxiliary frame, said supports being adapted to



receive the cloth roller for rewinding the same thereon coincident with the unwinding of the leader from the drum.

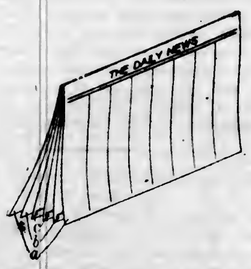
1,387,837. NEWSPAPER. EDGAR H. COTTRELL, Westerly, R. I. Filed Jan. 25, 1915. Serial No. 4,228. 2 Claims. (Cl. 283—1.)



1. A newspaper comprising a plurality of sheets, each sheet having two printed pages on each side thereof, and a fold line between the pages, the columns of printed matter running at right angles to the fold line, the two printed pages on each side of each sheet reading in the same direction when the newspaper is unfolded.

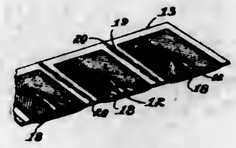
2. A newspaper comprising a plurality of sheets, each sheet having two printed pages on each side thereof, and a fold line between the pages, the columns of printed matter running at right angles to the fold line, the two printed pages on one side of each sheet reading in one direction and the two printed pages on the other side of each sheet reading in the opposite direction when the newspaper is unfolded.

1,387,838. NEWSPAPER. EDGAR H. COTTRELL, Westerly, R. I. Filed Jan. 25, 1915. Serial No. 4,229. 3 Claims. (Cl. 283—1.)



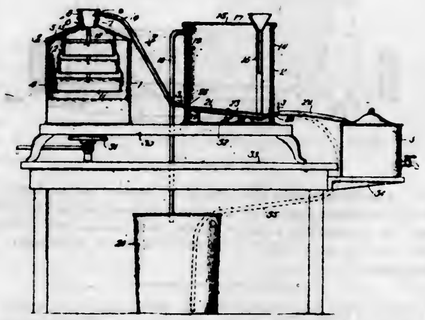
1. A newspaper comprising a plurality of sheets, each side of each sheet having two printed pages, and a fold line between the pages, the columns of printed matter running at right angles to the fold line, the two printed pages on one side of a sheet reading in the same direction and the two printed pages on one side of a sheet reading in opposite directions when the newspaper is unfolded.

1,387,839. PACKAGE. CHARLES T. DAVIS, New York, N. Y. Filed Mar. 9, 1920. Serial No. 364,565. 9 Claims. (Cl. 206—63.2.)



1. A sealed package comprising a container and an article entirely inclosed therein, a portion of the container being closely pressed about the article to cause an outline of the latter to appear in relief on a surface of the package, whereby the size and contour of the article may be readily determined by an inspection of the package.

1,387,840. EVAPORATOR. JOHN H. DAVIS, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,763. 1 Claim. (Cl. 203—5.)

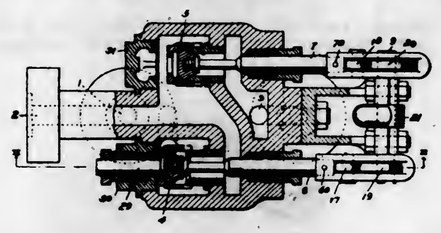


An evaporator comprising a receptacle having a cover member secured thereto, said cover member having an inlet opening formed therein, a battery of pans suspended one above the other in said receptacle with their centers in vertical alinement with said opening, said battery being disposed in spaced relation to the closed bottom and side walls of said receptacle and to said cover member whereby said receptacle and pans are each adapted to contain water to be evaporated, each of said pans being larger than the successive pan above, whereby the water contained in each pan is adapted to overflow into the next lower pan, said receptacle being adapted to have heat applied thereto, said battery being adapted to be heated by the vapor generated in said receptacle for evaporating the water in said pans, and a plug detachably seated in said inlet opening and having a vent for conducting away the vapor generated in said evaporator.

1,387,841. VALVE. GEORGE P. DEMPLER, Pittsburgh, Pa., assignor to Protected Seat Valve Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 3, 1920. Serial No. 393,864. 5 Claims. (Cl. 138—16.)

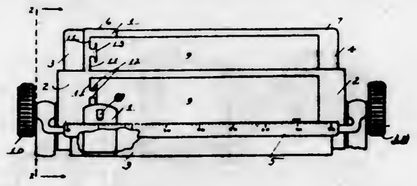
1. A valve structure for an hydraulic cylinder consisting of an essentially cubical casing provided at its base with inlet and waste passages, and in one end with a cylinder passage, two valves arranged within the casing and controlling one of them the line of flow from the inlet passage to the cylinder passage and the other the line of flow from

the cylinder passage to the waste passage, said valves being carried upon the stems extending through the end of the casing opposite that wherein the cylinder passage is formed, means for engaging said valve stems for shifting



the valves, two openings normally covered with removable closures formed in the end of the casing in which the cylinder passage also is formed, said openings affording access to the said valves for purposes of removal and replacement, substantially as described.

1,387,842. TYPEWRITER. WILLIAM H. EDWARDS, Grand Rapids, Mich. Filed May 1, 1918. Serial No. 231,788. 4 Claims. (Cl. 197—143.)



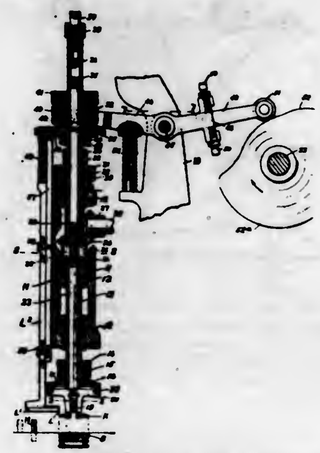
1. A flexible shield adapted to be drawn by the turning of the rotatable platen of a typewriter between said platen and the typewriter's paper guide, and means for holding the strip in said indrawn position against movement by the platen.

1,387,843. LUBRICATING SYSTEM. DOUGLAS F. FESLER, Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company, a Corporation of Delaware. Filed Nov. 18, 1918. Serial No. 262,930. 8 Claims. (Cl. 184—45.)



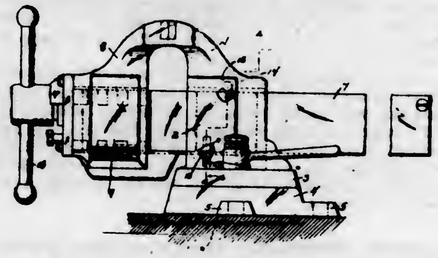
1. A lubricating system comprising a cylinder, a plunger in said cylinder, a spiral spring between said plunger and one end of said cylinder, means for establishing communication between the other end of said cylinder and the bearing comprising a tubular member, means for supplying lubricant to the last named end of said cylinder comprising a second tubular member having an outwardly closing closure, a lubricant pump, and co-acting means on said lubricant pump and on said tubular member for detachably connecting said lubricant pump and said second tubular member to deliver lubricant to said cylinder under pressure greater than the pressure of said spring, the first mentioned end of said cylinder acting as a support for said plunger when lubricant is forced into said cylinder under a pressure greater than the tension of said spring.

1,387,844. CHUCK. FREDERICK ELLIOTT FISHER, Sudbrook Park, Md., assignor to Eugene K. Plumly, Philadelphia, Pa. Filed Jan. 26, 1921. Serial No. 439,932. 19 Claims. (Cl. 93—54.)



1. A chuck having a body portion, a movable sleeve to which the body is connected, a plurality of jaws mounted in the body, a longitudinally movable spindle centrally mounted in the sleeve and body, actuating devices for the sleeve and spindle, actuating connections between the spindle and jaws, and actuating connections between the sleeve and spindle.

1,387,845. QUICK-ACTING VISE. EDWIN W. FULTON, Lowville, N. Y., assignor to Velox Vise Co., Inc., Lowville, N. Y. Filed Jan. 29, 1920. Serial No. 354,924. 5 Claims. (Cl. 81—17.)

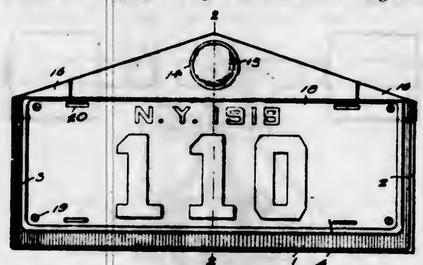


1. In a vise, the combination with a fixed jaw having an opening therethrough, of a tail stock slidable through the opening, a fulcrum block secured in the bottom of the opening and having its top surface raised above the plane of said bottom, a grip pin secured at the top of the opening and having its lower surface lower than the plane of said top and out of alinement with the fulcrum block, a movable jaw carried upon the tail stock, and means to move the jaw upon said tail stock.

1,387,846. LICENSE-BRACKET. ALBERT WM. GABEL, Rochester, N. Y. Filed Nov. 8, 1919. Serial No. 336,577. 1 Claim. (Cl. 40—131.)

A device of the character specified comprising a flat plate slotted at predetermined points to define a space for locating a license plate thereon and having side edges beyond the space beveling to a point on one side of the plate, one beveled side having upstanding flanges angularly inclined with respect to each other to provide

reflectors for reflecting light upon the license space and illuminating means between the said reflector and a cap-plate bridging the space between the flanges and



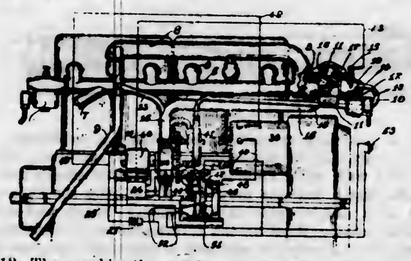
supported by the latter for incasing the illuminated means, said cap-plate having lens-opening in line with the illuminating means.

1,387,847. TOOL FOR DRESSING EMERY-WHEELS AND THE LIKE. ARTHUR A. GLASS, New York, N. Y. Filed Feb. 18, 1921. Serial No. 446,069. 3 Claims. (Cl. 125—39.)



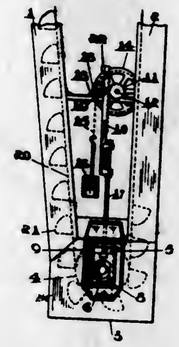
1. A tool for dressing emery wheels and the like comprising an externally threaded hollow body, a tube partly within said hollow body and adapted to support a cutting stone, an open end cap on said tube and an internally threaded clamp ring over said cap engaging the body threads whereby the cutting stone is clamped between the tube and cap and projects through the latter.

1,387,848. INTERNAL-COMBUSTION-ENGINE POWER PLANT. JOHN GOOD, Brooklyn, N. Y., assignor to Good Inventions Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 30, 1916. Serial No. 117,567. 20 Claims. (Cl. 290—38.)



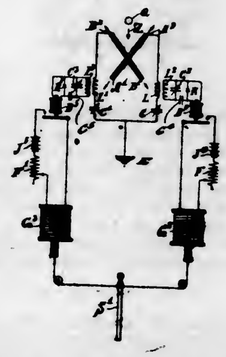
12. The combination with an internal combustion engine, an engine-turning motor, a preheating device for the engine and means whereby the operation of said device for a predetermined definite period automatically causes the operation of said engine-turning motor.

1,387,849. ADJUSTING DEVICE FOR ELEVATOR BOOT-PULLEYS. GEORGE LEWIS GLASS, Toronto, Ontario, Canada, assignor to Dodge Manufacturing Company of Canada, Limited, Toronto, Canada. Filed Nov. 21, 1919. Serial No. 339,578. 3 Claims. (Cl. 64—52.)



1. In a belt adjusting device, the combination of a supporting frame; a bearing located at each side of said frame movable relative to the frame and to each other; a shaft journaled in said bearings; a pulley carried by said shaft between said bearings; a suitably guided rack connected to each of said bearings; a second shaft journaled on the supporting frame; a pinion secured adjacent each end of the last mentioned shaft and each meshing with a rack; weights; and means whereby the weights tend to rotate the last mentioned shaft.

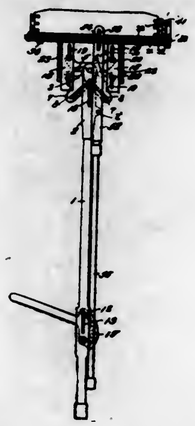
1,387,850. SYSTEM OF RADIODIRECTIVE CONTROL. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed June 7, 1912. Serial No. 702,174. Renewed Jan. 18, 1921. Serial No. 438,260. 12 Claims. (Cl. 250—2.)



1. In a system of radio control, a receiving station comprising a plurality of antennæ arranged to receive radiant energy in different degrees respectively, controlling devices respectively arranged to be rendered operative when said antennæ are simultaneously and equally exposed to radiant energy, a rudder, and means for actuating said rudder, said means being operative to shift said rudder in one direction or the other ac-

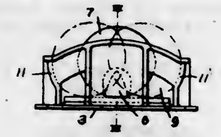
cording as one or the other of said controlling devices is rendered inoperative by an unequal distribution of the received radiant energy upon said antennæ.

1,387,851. NOTCHING DEVICE. EMMETT M. KEY, Tulsa, Okla. Filed Jan. 23, 1918. Serial No. 213,406. 13 Claims. (Cl. 144—2.)



1. A notching device of the class described comprising a saw carrying frame, said saw carrying frame provided with track grooves formed therein, gripping jaws carried by said frame, lugs slidably mounted upon said gripping jaws, means formed upon said lugs and working within said track grooves for constituting a guide for said jaws, and means for yieldably supporting said lugs.

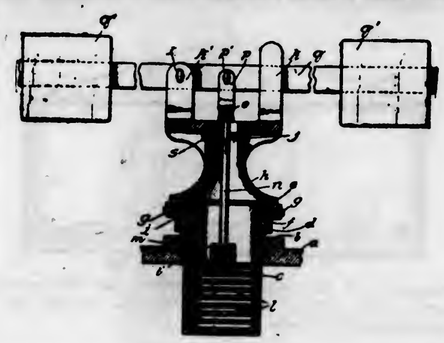
1,387,852. SIDE BEARING FOR RAILWAY-CARS. WILLIAM J. KNOX, Dubois, Pa. Filed June 21, 1919. Serial No. 305,859. 10 Claims. (Cl. 64—64.)



1. In combination in a side bearing, a cage having side walls, centering pins projecting inwardly from said walls, a roller in the cage having its end walls provided with recesses extending radially from the periphery of the roller inward, and stops at the end of the cage for limiting the movement of the roller, the clearance between the centering pins and the sides of the recesses being such as to permit the roller to move to engagement with the stops without interference by the centering pins.

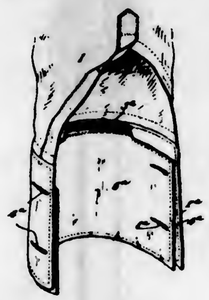
1,387,853. BOILER AND DAMPER REGULATOR FOR BOTH STEAM AND HOT WATER. JOHN M. LARSON, Chicago, Ill., assignor to National Regulator Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 22, 1917. Serial No. 197,799. 2 Claims. (Cl. 236—20.)

1. In a device of the class described, a well adapted to be screwed within the outer shell of a boiler, a tubular open-ended cap removably mounted on said well and containing a dust-excluding packing, a series of diaphragms fitting within said well, a stem secured at its lower end to said diaphragms and extending through said tubular cap and packing and means whereby the



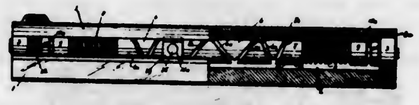
expansion and contraction of said diaphragm may be utilized to operate a damper or like device.

1,387,854. CUFF. HERBERT H. LEDERER, Cleveland, Ohio. Filed Dec. 18, 1918. Serial No. 267,347. 2 Claims. (Cl. 2—79.)



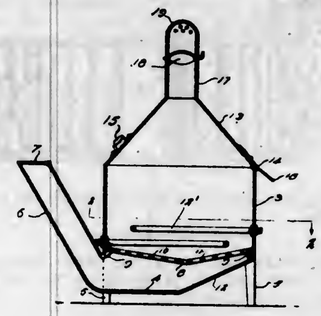
1. The combination, with a shirt sleeve, of a foldable cuff member having a slit whose periphery lies entirely within the cuff body below the upper portion thereof, said cuff member being connected along substantially its entire upper portion, above the upper periphery of said slit, to the sleeve, and a second foldable cuff member having a tab at its upper end secured to the first member adjacent to the said slit.

1,387,855. REVERSING MECHANISM. ELIHU LIPPITT and STEPHEN W. LIPPITT, Cleveland, Ohio. Filed June 3, 1919. Serial No. 301,436. Renewed June 25, 1921. Serial No. 480,483. 6 Claims. (Cl. 74—1.)



3. A reversing mechanism comprising a guideway, a shaft journaled in parallelism with the guideway and provided with spiral grooves crossed at intervals throughout its length, extreme portions formed upon the ends of said shaft and movable axially relative thereto and containing continuations of the spiral grooves and yielding means for holding the sections in organized relation to the shaft.

1,387,856. HEATER. HOWARD LOCKHART, Falls City, Nebr., assignor to E. R. Hays and R. A. Heacock, Falls City, Nebr. Filed Nov. 5, 1920. Serial No. 421,979. 2 Claims. (Cl. 126—367.)

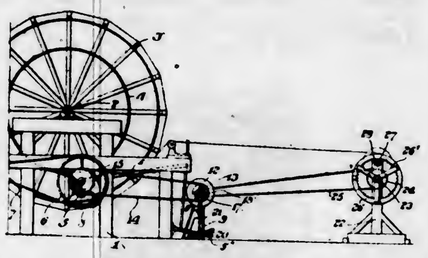


1. A tank water heater comprising a casing adapted to be submerged in a water tank and having its bottom spaced from the bottom of said water tank, said casing provided with a clean-out-chute communicating with the bottom thereof, a grate in said casing, and the bottom of the casing opposite the clean-out-chute being inclined downwardly and toward the end of the clean-out-chute for directing ashes toward the end thereof.

1,387,857. PROCESS FOR SEPARATING SULFUR DIOXID FROM GAS MIXTURES. RALPH H. MCKEE, New York, N. Y. Filed May 26, 1919. Serial No. 299,693. 6 Claims. (Cl. 23—1.)

4. In the process of separating sulfur dioxid from furnace gases, the steps of scrubbing said gases with water, further cooling said gases, reducing the moisture content of said gases to a point below saturation, and bringing said gases into contact with a material containing a silica gel.

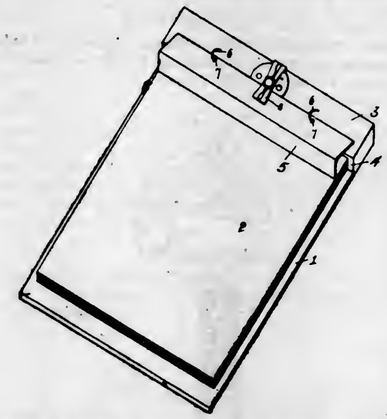
1,387,858. WARPING-MILL APPARATUS. ALEXANDER MCMUNN, Philadelphia, Pa. Filed Sept. 16, 1920. Serial No. 410,675. 3 Claims. (Cl. 28—14.)



1. In apparatus of the character described, the combination with a warping mill having a reel and means for rotating it, of a roller journaled in bearings independent of said mill, clutching mechanism through which said roller is connected with said reel rotating means, a spooling jack having a pulley, and a belt connecting said pulley and roller.

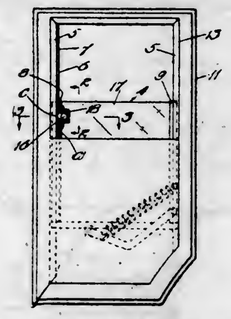
1,387,859. LOOSE-LEAF BINDER. ELMER C. MAHON, Toledo, Ohio. Filed Apr. 5, 1920. Serial No. 371,180. 1 Claim. (Cl. 129—35.)

A loose-leaf binder comprising a stiff backing member having a cross ledge at its upper end, a clamping member L-form in cross-section hinged at one edge to the ledge for vertical swinging movements and when in clamping position having its hinged flange projecting on an incline from the ledge and its other flange projecting toward the backing member in clamping engagement with sheets disposed thereover, and a holding arm pivoted to the



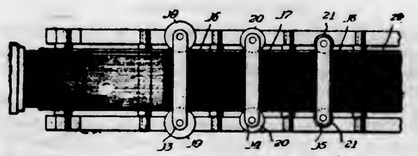
ledge for swinging movements over the inclined flang of the clamping member to adjustably hold it in clamping position.

1,387,860. WINDOW-FASTENER. WILLIAM MILLER, Amesbury, Mass., assignor to Amesbury Brass & Foundry Company, Amesbury, Mass., a Corporation of Massachusetts. Filed June 2, 1920. Serial No. 385,881. Claims. (Cl. 292—228.)



1. In a device of the character described and in combination with a window frame having a notched bar secured thereto, a window sash, a latch pivotally mounted on the said sash, the axis of the pivot being parallel with the notched bar and a spring acting on the said latch to cause the point of the latch to engage a notch in the said bar and by its reaction to restrain the sash from movement in and out relatively to the frame.

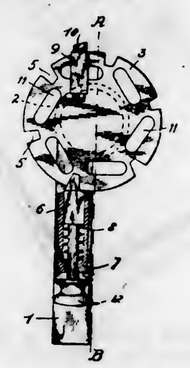
1,387,861. METHOD OF AND APPARATUS FOR MAKING FACING-BRICKS. JAMES H. MITCHELL, Danville, Ill. Filed Oct. 4, 1920. Serial No. 414,392. 6 Claims. (Cl. 25—1.)



1. The method of making ornamented bricks which consists in moving a bar of plastic clay in surface con-

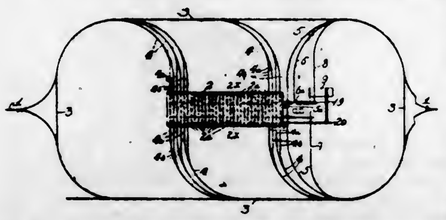
tact with a plurality of sucessive rolls of different diameters, each roll adding a portion of the complete design to the clay, substantially as described.

1,387,862. TOOL-HOLDER. ERNST ORTWIG, Cologne-Ehrenfeld, Germany. Filed Aug. 15, 1919. Serial No. 317,724. 2 Claims. (Cl. 29—48.)



1. In a device of the character set forth, a supporting member adapted to be secured to a lathe or other machine, a tool supporting revolver head having in coacting relation a series of peripheral notches and a corresponding number of elongated slots therethrough, screw and nut means allowing and preventing rotation of said revolver head on and relative to said supporting member, latch bolt means coacting with said peripheral notches for locking said revolver head in a plurality of predetermined operative positions, and a tool clamping member for each of said elongated slots and adjustably securable therein, substantially as set forth.

1,387,863. LOCOMOTIVE-TERMINAL FOR RAILWAY SYSTEMS. SPENCER OTIS, Chicago, Ill. Filed June 10, 1921. Serial No. 476,429. 18 Claims. (Cl. 104—26.)



1. In a locomotive terminal plant for railway systems, main tracks, a terminal house provided with stations for locomotives and equipped for treatment of locomotives in said stations, and spur tracks connecting both ends of each of said stations with said main tracks so that locomotives may be routed continuously from service through the terminal house and back to an assigned track without reversing.

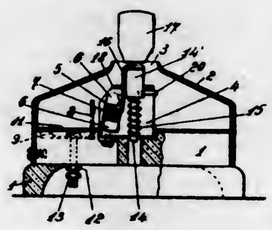
1,387,864. METHOD AND APPARATUS FOR CASTING METAL CUPS. DAVID PEPPER, Philadelphia, Pa. Filed Dec. 19, 1919. Serial No. 346,138. 6 Claims. (Cl. 22—200.)

1. The method of casting metal cups which consists of first filling a cup mold by placing it in communication with a reservoir of fluid metal, then forcing a plunger having the form of the inside of the cup into the mold, so as to press the excess of melted metal in the mold back into the reservoir, then cutting off the molten metal above the top of the plunger to form the bottom of the cup allowing



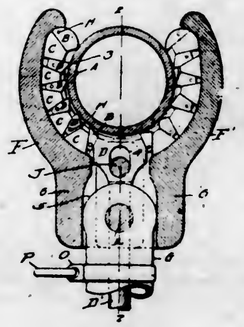
the casting to solidify and finally stripping the cup from the plunger.

1,387,865. ELECTRIC SWITCH. CARLO PRADA, Milan, Italy. Filed Aug. 13, 1919. Serial No. 317,115. 2 Claims. (Cl. 200—64.)



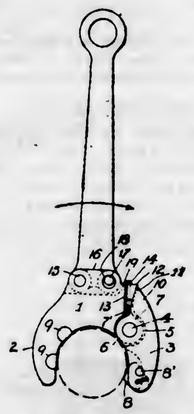
1. An electric switch, comprising a casing, contact members therein, a rotary make and break device comprising a reduced body portion and enlarged end portions, a push button spindle reciprocable in the casing, and means carried by the spindle for moving said make and break device into and out of contact with said contact members, said means having a portion which engages one part of said make and break device to rotate it and another portion to keep it properly registered.

1,387,866. PIPE-WRENCH. CLARENCE E. REED, Houston, Tex. Filed July 14, 1920. Serial No. 396,070. 3 Claims. (Cl. 81—91.)



1. In combination, in a wrench, a jaw, a series of grips on the jaw, an opposing jaw, a master wedge for setting the grips, a main handle provided with a bearing, a stem for the master wedge extending along the main handle and a finger lever carried by the main handle for operating the stem to set the master wedge, said finger lever being self locking and maintained in locked position by the back pressure from the master wedge, said finger lever having a cam shaped portion working on said bearing on the main handle and being pivotally connected to the stem, substantially as described.

1,387,867. WRENCH. CLARENCE E. REED, Houston, Tex. Filed Mar. 9, 1921. Serial No. 451,054. 7 Claims. (Cl. 81—91.)

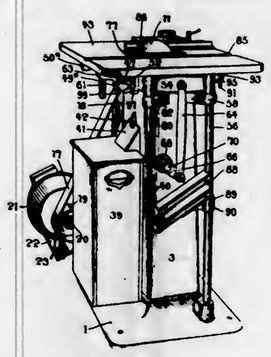


1. A wrench comprising a head with a rigid jaw and an opposed pivoted jaw, means for adjusting the pivoted jaw, and grips carried by the rigid and pivoted jaws, one of said grips being pivotally mounted, substantially as described.

1,387,868. PURIFYING HYDROCARBON OILS. CLARENCE I. ROBINSON, Staten Island, N. Y., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Mar. 13, 1920. Serial No. 365,617. 8 Claims. (Cl. 196—26.)

1. The process of purifying acid-treated petroleum oils which consists in admixing iso-propyl alcohol therewith and subsequently separating the iso-propyl alcohol therefrom, thereby removing sulfonated compounds from the oil.

1,387,869. POWER-SAW. VERNON ROYLE, Paterson, N. J. Filed Dec. 21, 1917. Serial No. 208,242. 30 Claims. (Cl. 143—33.)

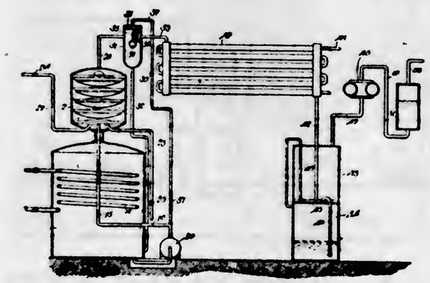


1. Apparatus of the character described comprising a main pedestal, a saw and its spindle, said spindle being provided with an enlarged hub arranged to serve as a means or driving the spindle and saw, and a bearing box having bearings therein for the spindle located on opposite sides of the hub, said box being removably mounted on the top of the pedestal, whereby the saw, spindle, hub, bearing and box may be removed as a unit.

7. Apparatus of the character described comprising, a main frame, a work table supported thereon, a saw mounted in the upper part of said frame and projecting through said table, and a chip deflector removably secured adjacent one edge of the saw, said deflector having a channel through which the saw travels.

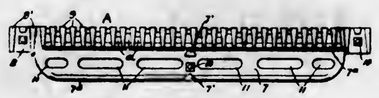
22. Apparatus of the character described comprising, a main frame, a cross-head carried by said frame, a work table supported thereon, a saw mounted in the frame to project through the table, said table being mounted for adjustment with respect to the saw in a horizontal plane, and means for elevating and depressing the cross-head and table with respect to the saw while maintaining the table in a horizontal plane.

1,387,870. VAPOR-FILTER. WILLIAM J. RUFF, Quincy, Ill. Filed June 21, 1916. Serial No. 104,870. 5 Claims. (Cl. 195—16.)



1. A dealcoholizing device comprising a receptacle having a drain opening in its bottom and inlet and discharge openings directed toward each other in the sides thereof; a filter over the discharge opening; a course of alhoholic and other vapors connected with the inlet opening; and means for moving said vapors from the inlet opening directly against said filter, the latter being adapted to permit the passage of alcoholic vapor and arresting the passage of other vapors therethrough.

1,387,871. GRATE. LOUIS A. STATES, Gastonia, N. C. Filed Aug. 11, 1917. Serial No. 185,644. 2 Claims. (Cl. 126—167.)

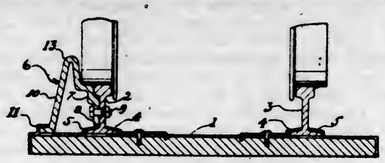


1. A grate comprising a plurality of grate bar members each comprising a truss provided with a plurality of stools spaced apart and projecting thereabove, the truss member extending more nearly to the top in the spaces between certain of the stools than between others whereby to reinforce the stools.

1,387,872. ANTIDERAILING RAILWAY-TRACK. AUSTIN F. STOCKWELL, Los Angeles, Calif. Filed Jan. 20, 1921. Serial No. 438,619. 8 Claims. (Cl. 238—17.)

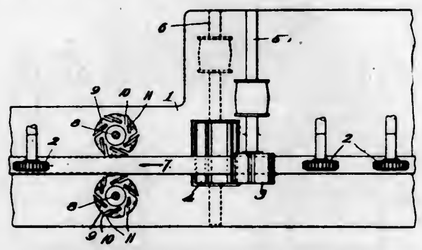
1. A railway comprising surface plates, T-rails fixed to said plates, a guard rail on the outer side of one of the T-rails, said guard rail having limbs one of which extends obliquely above the level of the crown of the T-rails and adjacent to the tread of said rail and adapted to receive the outer end of the flanged wheel in case the flange of

the wheel should ride onto the ball of the T-rails and the other limb being adapted to rest upon the surface plates



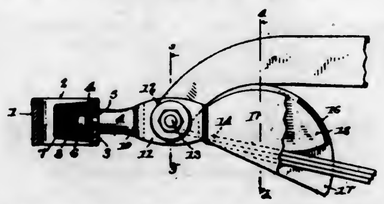
of the railway; and means to fasten said guard rail to the track.

1,387,873. PROCESS OF ROUGHENING THE SIDE EDGES OF FLOORING-BOARDS AND THE LIKE. WILLIAM H. WALKER, Pine Bluff, Ark., assignor to Arkansas Short Leaf Lumber Company, Kansas City, Mo., a Corporation of Missouri. Filed Mar. 20, 1919. Serial No. 283,827. 1 Claim. (Cl. 144—309.)



The process of producing closely-arranged longitudinally extending broken shallow parallel grooves in the side edges of a board, the same consisting in feeding the board endwise between and in engagement with toothed cutters and in rotating such cutters at such a rate of speed as shall cause them to successively engage the board at points in longitudinal alinement but slightly spaced apart.

1,387,874. BUFFER FOR MOTOR-DRIVEN VEHICLES. EDGAR E. WARNER, Milwaukee, Wis. Filed Jan. 10, 1920. Serial No. 350,529. 9 Claims. (Cl. 293—55.)



6. In a buffer bar mechanism for motor driven vehicles, a set of bar supporting members each having rearwardly extending apertured portions adapted to receive a spring hanger between them with the shackle bolt engaged in the apertures, and having another portion adapted to engage in the space between the vehicle spring and its main frame adjacent to the hanger, said last mentioned portion comprising a saddle, having its upper surface curved in conformity to the under surface of the main frame bar and having depending flanges between which the spring is received.

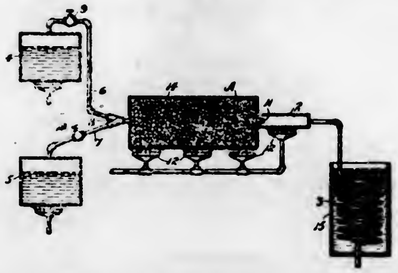
1,387,875. EXCAVATING-MACHINE. ADOLPH H. WELLENSIEK, Stockton, Calif. Filed Dec. 26, 1917. Serial No. 208,726. 63 Claims. (Cl. 37—39.)

3. In an excavating machine a main frame; running gear mounted on the opposite ends of said frame; means on one of said running gears for operating said other running gear; a carriage reciprocatingly mounted on said



frame; a plow on said carriage; a scraper on said carriage and an independent prime mover on said carriage for driving said carriage and operating said plow and scraper.

1,387,876. METHOD OF LOWERING THE BOILING AND FLASHING POINT OF KEROSENE AND LIKE HYDROCARBON OILS. WILLOUGHBY MACBAIN WHEELER, Melbourne, Victoria, Australia, assignor of one-half to Ozmo Oil Refining Company, San Francisco, Calif., a Corporation of California. Filed Aug. 7, 1918. Serial No. 248,706. 3 Claims. (Cl. 196—25.)



1. A method of lowering the boiling and flashing point of kerosene and like oils, which consists in converting the oil to be treated to a vapor, mixing said oil vapor with steam, subjecting said mixed vapors to a low pressure, gradually increasing the temperature of said vapors while subjected to pressure, then expanding the vapors to atmospheric pressure, further increasing their temperature after expansion, and finally condensing the vapors and gravity separation of the oil from the liquid.

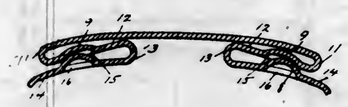
1,387,877. OIL-BURNER. ERNEST L. WOOLLEY, Providence, R. I. Filed Nov. 10, 1919. Serial No. 336,796. 3 Claims. (Cl. 299—120.)



1. A two-part oil-burner for attachment to a fuel feed-pipe comprising a cap adapted to be applied to the end of the pipe, said cap formed with a contracted discharge opening at its end, and a disk-like plug fitted within the cap to be held thereby against the end of the pipe, said

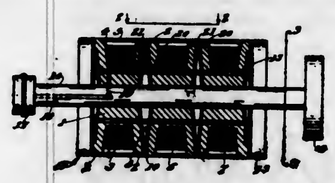
plug formed with a central cylindrical recess communicating with the contracted discharge opening in the cap, with oil-ducts leading from the periphery of the plug into said central recess, and passages leading from the rearward side of the plug into the oil-ducts to form a connection between the feed-pipe and the central recess of the plug.

1,387,878. COLLAR-HOLDER. CHARLES H. ALLEN, Attleboro, Mass. Filed June 6, 1921. Serial No. 475,297. 2 Claims. (Cl. 24—81.)



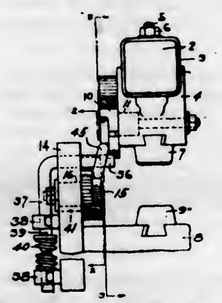
1. In a collar holder, an oblong body, inwardly directed arms upon the ends of the body, outwardly directed arms upon the inner ends of the first arms, arches cut from intermediate portions of the first arms and raised from the planes thereof, and similar arches cut from intermediate portions of the second arms and raised from the planes thereof in the direction of the first arches.

1,387,879. MAGNETIC PULLEY. JOHN P. BETHKE and ROSWELL H. STEARNS, Milwaukee, Wis., assignors to Magnetic Manufacturing Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 22, 1920. Serial No. 353,345. 6 Claims. (Cl. 83—71.)



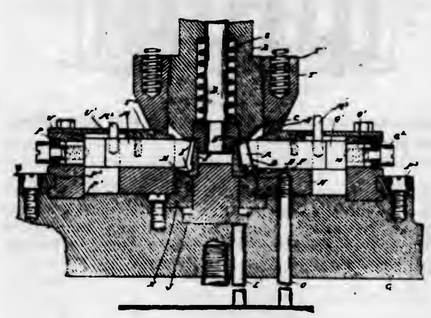
1. A magnetic pulley comprising a shaft, a plurality of separate magnetic elements each independently supported from said shaft, said elements being so related that circulation of air therebetween is secured.

1,387,880. DEVICE FOR BENDING CHAIN-LINKS. JACOB J. BEYER, McKees Rocks, Pa. Filed Feb. 4, 1920. Serial No. 356,341. 10 Claims. (Cl. 59—27.)



1. Chain-making apparatus comprising a welding hammer, a horizontal forming mandrel resiliently mounted adjacent to the said hammer and pivotally movable bending means carried by the said hammer and adapted to coöperate with the said forming mandrel to bend chain-links preparatory to welding.

1,387,881. MACHINE FOR ACCURATELY ALINING AND CLOSING ROLL-HOLDING CAGES FOR ROLLER-BEARINGS. JEREMIAH BINGHAM, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 28, 1917. Serial No. 193,719. 9 Claims. (Cl. 29—84.)

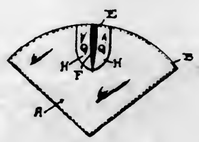


1. The combination with means for holding a loosely-assembled series of individual roller holding cells and a connector therefor, of means for accurately alining said cells, and means for rigidly attaching said cells and connector while thus alined.

1,387,882. MANUFACTURE OF ARTIFICIAL SILK. EMILE BRONNERT, Mulhausen, France. Filed Sept. 2, 1920. Serial No. 407,753. 5 Claims. (Cl. 18—54.)

1. The process of making artificial viscose silk, which comprises treating viscose in a precipitating bath comprising a solution of sodium benzene sulfonate and sulfuric acid monohydrate.

1,387,883. HOE. JAMES ROBT. CLARK, Sadler, Tex. Filed June 26, 1919. Serial No. 306,838. 1 Claim. (Cl. 55—39.)

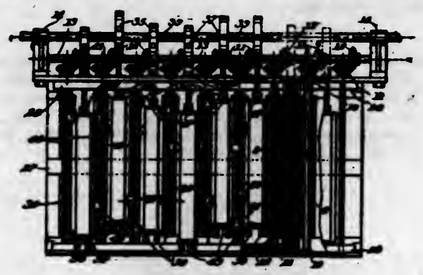


In a hoe, a handle socket provided with a narrowed portion and a depending portion sharpened at its lower edge and terminating in a blade attaching flange, the narrowed portion being between the flange and the closed end of the socket, and a blade attached to the flanged portion co-planar with the top of the narrowed portion.

1,387,884. APPARATUS FOR CLEANING BOOK-COVERS AND THE LIKE. JAY E. CROSS, Takoma Park, Md. Filed May 27, 1920. Serial No. 384,707. 6 Claims. (Cl. 41—7.)

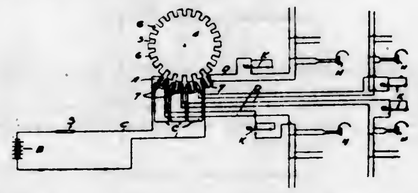
1. In an apparatus for cleaning book covers and the like, a feed mechanism comprising a plurality of resilient feed rollers and pressure rollers coöperating therewith for conveying the book covers through the machine, and a

plurality of cleaning devices having a reciprocatory motion in a direction transverse to the direction of feed of



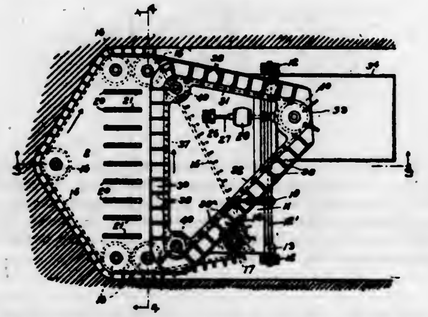
said covers for cleaning said covers during their passage through the apparatus.

1,387,885. RADIOSIGNALING APPARATUS. WILLIAM RAY DAVIS, Minneapolis, Minn., assignor to The William Hood Dunwoody Industrial Institute, Minneapolis, Minn., a Corporation. Filed Mar. 9, 1918. Serial No. 221,569. 3 Claims. (Cl. 178—115.)



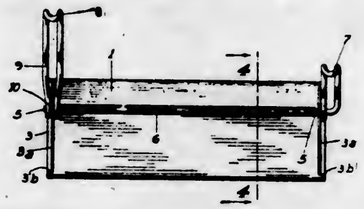
1. An apparatus of the class described comprising a series of U-shaped magnets, a winding on each pole of said magnets, the windings on one pole of each of said magnets being connected in series in an electric circuit, independent conductors connected with the other windings of said magnets and each having a sending key and a number of receivers therein, and a series of armatures mounted to revolve in the field of said magnets.

1,387,886. COAL-MINING MACHINE. THOMAS DONOHOE, Edgewood, Pa. Filed Oct. 18, 1915. Serial No. 56,372. 5 Claims. (Cl. 262—9.)



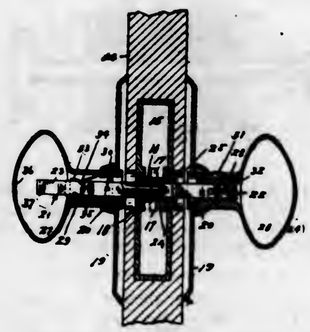
2. In a mining machine adapted for use for coal blasting operations, a horizontal vertically shallow coal receiving platform, undercutting means mounted below the upper face of said platform and adapted upon the forward movement of said platform to form an undercut, an endless conveyer movable across and arranged to convey coal from said platform and to carry the same to a point above and in the rear of said platform, and reciprocating means protruding through said platform for moving coal from said undercutting means to said endless conveyer.

1,387,887. ADJUSTABLE VIEW-REFLECTOR. HAROLD J. GAGE, Stockton, Calif. Filed Jan. 9, 1919. Serial No. 270,390. 6 Claims. (Cl. 45—97.)



6. A reflector for vehicles comprising a reflecting unit, rearwardly extending ears disposed at the opposite ends of the back of the unit, supporting clips of different lengths one pivotally mounted to each of said ears whereby a change in the relative angular positions of the clips will cause one end of the reflector to swing vertically and horizontally in relation to the opposite end, at the same time permitting the reflector to pivot around the longitudinal axis of the two clips.

1,387,888. DOOR-LATCH. ANSON W. HOLT, Menomonie, Wis. Filed Oct. 26, 1920. Serial No. 419,674. 6 Claims. (Cl. 292—169.)



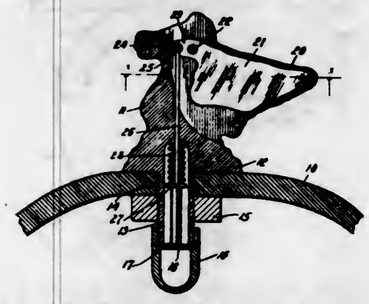
1. A latch having inner and outer operating knobs, one of said knobs being movable axially toward and from the other to thereby render the latter temporarily inoperative.

1,387,889. GAS-DELAYER FOR FIREARMS. JAMES S. JOHNSTON, Utica, N. Y. Filed Nov. 20, 1916. Serial No. 132,248. 2 Claims. (Cl. 42—3.)



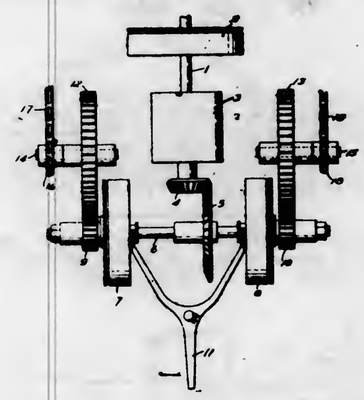
2. In a gas delayer for firearms, a tube, a removable cylinder disposed in said tube, a spiral groove formed in said cylinder, whereby to delay the progress of the gases of explosion for actuating the reloading mechanism of the firearm, and an annular recess in said cylinder adapted to form an air cushion.

1,387,890. INDICATING INSTRUMENT FOR AUTOMOBILE-RADIATORS. JOSEPH KLEIDMAN, New York, N. Y., assignor to Pegasus Indicator Manufacturing Co., Inc., New York, N. Y., a Corporation of New York. Filed Dec. 28, 1920. Serial No. 433,639. 2 Claims. (Cl. 116—114.)



1. In an indicator for the radiators of internal combustion engines, the combination with the closure member for the filling opening of a radiator, of a signal support rising from said closure member, a signal member pivoted to said support, a fusible body held in fixed position below said closure member, and a spring-pressed plunger resting upon said fusible body and connected to said signal member, said signal member being concealed from view by said support as long as said fusible body prevents a movement of said plunger.

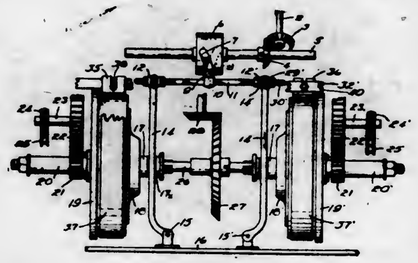
1,387,891. TRANSMISSION MECHANISM. JOHN MINOR KROYER, Stockton, Calif. Filed May 21, 1920. Serial No. 383,182. 1 Claim. (Cl. 180—17.)



A transmission mechanism comprising a drive shaft, a driven shaft set at right angles thereto and beyond one end thereof, gearing operatively connecting said shafts, a pinion loosely mounted on each end of the driven shaft, a clutch member secured to each pinion, a companion clutch member for each first named member splined on the driven shaft and facing each other, and a rocking lever for shifting said splined members fulcrumed in line with but beyond the drive shaft.

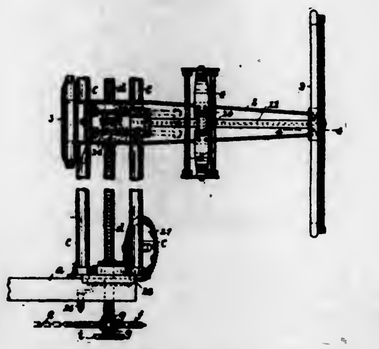
1,387,892. STEERING MECHANISM FOR TRACTORS. JOHN MINOR KROYER, Stockton, Calif. Filed May 21, 1920. Serial No. 383,183. 8 Claims. (Cl. 180—17.)

1. In a tractor steering mechanism, a drive shaft, a pair of clutches associated therewith, means connected with each clutch for transmitting power to the wheels on one side of the tractor, a steering wheel, a cam operated by said steering wheel, a lever for disengaging each clutch, a rigid connection between said levers, means carried by said



rigid connection and arranged to be moved by said cam, a brake for each clutch, and means connected with said rigid connection for applying the brake through the movement of said rigid connection.

1,387,893. WARPING-MACHINE. GEORGE W. KUENNETH, Paterson, N. J., assignor, by mesne assignments, to Jeannette Kuenneth, Paterson, N. J. Filed Nov. 15, 1918. Serial No. 262,665. 2 Claims. (Cl. 28—14.)

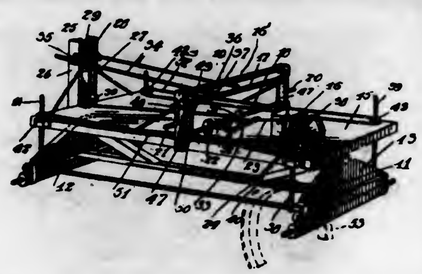


2. In combination, with the frame, a reel journaled therein, a reed carriage arranged to traverse in the frame, a rotary feed-screw operatively engaged with and adapted to traverse the carriage, means to transmit motion from the reel to the feed-screw having a disconnective clutch connection, means to manually rotate the feed-screw, means to indicate the length of warp wound on the reel and the extent of traverse of the carriage including a moving member, and means, connecting said member with the feed-screw, to move said member in sychrony with the rotating feed-screw and traversing carriage.

1,387,894. POST-DRIVING APPARATUS. CONSTANT EUGÈNE LAMOISE, Namur, Quebec, Canada. Filed Jan. 27, 1921. Serial No. 440,416. 4 Claims. (Cl. 61—74.)

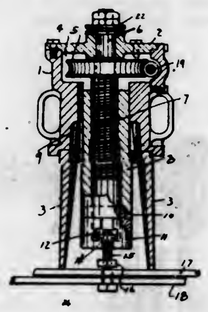
1. A machine of the character described including a wheeled frame, bolsters at the end of said wheeled frame, a platform pivoted at its ends to the upper ends of said bolsters for tilting movement thereon, threaded rods secured to the bolsters, guides carried by the opposite sides of the platform for receiving said rods, said guides having openings with curved surfaces formed therein, sprockets threaded upon the said rods, extensions on the sprockets and fitting in the said openings, means for rotating said sprockets in opposite directions upon opposite sides of the

frame, and tilting the platform laterally relative to the frame, a driving apparatus mounted upon said frame, and



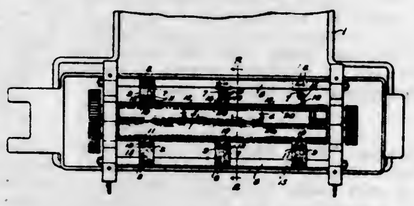
means for tilting the driving apparatus longitudinally relative to the frame.

1,387,895. BOLTING-UP AND PLATE-TIGHTENING MACHINE. JAMES P. MCBRIDE, Seattle, Wash. Filed Nov. 26, 1918. Serial No. 264,448. 9 Claims. (Cl. 29—84.)



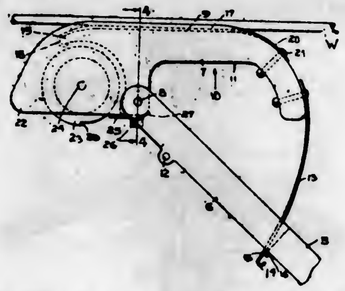
1. In a portable tool for clamping together a pair of perforated plates, a housing, and a nut and screw mechanism carried by said housing including means engageable through perforations of the plates and with the plate remote from the housing, and operable to clamp the plates together.

1,387,896. ROLL-SCRAPER. ARTHUR J. MASKREY, Canton, Ohio. Filed Nov. 9, 1918. Serial No. 261,777. 2 Claims. (Cl. 91—59.2.)



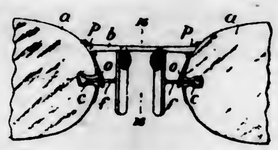
1. In a tin coating device comprising a grease pot and superposed pairs of rolls therein, a pivoted arm adjacent to each roll, a radially disposed blade on each arm formed from a single rigid steel plate and provided with a chisel edge arranged to contact evenly with the face of the roll and tension means common to the pivoted arms upon each side for holding the chisel edges of the blades in contact with the rolls.

1,387,897. SLIDING TROLLEY. OTTO MOORE, Frankfort, Ind., assignor of one-half to Giles S. Moore, Frankfort, Ind. Filed Apr. 26, 1920, Serial No. 376,765. Renewed July 11, 1921. Serial No. 483,951. 3 Claims. (Cl. 191—59.1.)



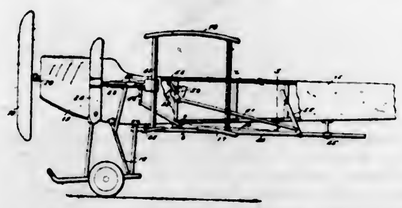
1. A device of the class described including a trolley harp, a shoe pivotally secured to the said harp, a detachable wear-plate carried by the shoe and adapted to slidably engage the trolley wire when the trolley is moving in a forward direction, and a trolley wheel carried by the shoe and adapted to engage the trolley wire when the trolley is moving rearwardly.

1,387,898. RIMLESS-EYEGLASS MOUNT. HARRY NEWBOLD, St. Albans, England. Filed June 21, 1920. Serial No. 390,643. 3 Claims. (Cl. 88—42.)



1. A rimless eyeglass mount of the kind herein referred to, comprising lens straps and placket arms, a bridge furnished with a pair of slots at the root of said lens straps leaving a bar between the slots which serves as a pivot for the placket arms, and a lens provided with a peripheral notch to receive said pivot and placket arms.

1,387,899. AEROPLANE. WALTER FREMONT OSBORNE, Wagon Mound, N. Mex. Filed Nov. 26, 1919. Serial No. 340,743. 2 Claims. (Cl. 244—25.)



1. A pair of supplemental propellers for aeroplanes, shafts upon the forward ends of which said propellers are mounted, having flexible joints intermediate their ends, driving connections leading to the rear ends of the shafts, a pair of supporting brackets, bell cranks having pivots on the brackets substantially in line with the said joints of the propeller shafts, studs outstanding from one end of the bell cranks and movably engaging and supporting the propeller shafts forwardly of their joints, and adjusting connections leading to the opposite ends of said bell cranks, as described.

1,387,900. ALLOY. ALADAR PACZ, Cleveland Heights, Ohio. Filed Feb. 13, 1920. Serial No. 358,555. 13 Claims. (Cl. 75—1.)

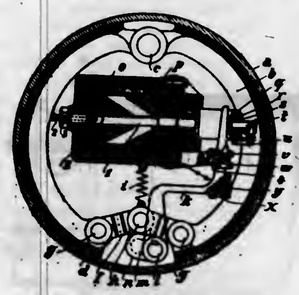
1. A casting alloy capable of being machined containing between about 8 per cent. and about 20 per cent. of silicon and at least about 98 per cent. of the balance being aluminum.

1,387,901. METHOD OF PACKING CONDENSERS. FRANK E. PAYNE, Glencoe, Ill. Filed Apr. 24, 1920. Serial No. 376,300. 10 Claims. (Cl. 285—46.)



9. The combination with a tube sheet having an opening therein, of a tube passing therethrough and terminating near the outer plane of said sheet, an enlarged annular recess forming part of said opening, John Crane packing compressed within said recess to form an air-tight joint and to electrically connect said tube and sheet, and means for maintaining the end of said tube near said outer plane as it moves under the influence of temperature changes.

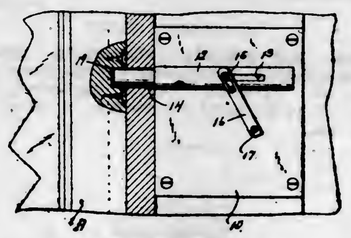
1,387,902. ELECTROMAGNETIC CLUTCH. MAX PREUSS, Charlottenburg, Germany. Filed Feb. 6, 1920. Serial No. 356,667. 7 Claims. (Cl. 192—40.)



1. An electro-magnetic clutch comprising two frictional clutch members, one of said clutch members having a friction surface and the other having friction jaws adapted to engage with said surface, an electro-magnet for moving said friction jaws into engagement with said surface, power transmission mechanism interposed between said magnet and said friction jaws, said magnet being separate from said transmission mechanism but adapted to engage therewith to apply said friction jaws to said surface, and means for locking said friction jaws in engagement with said surface.

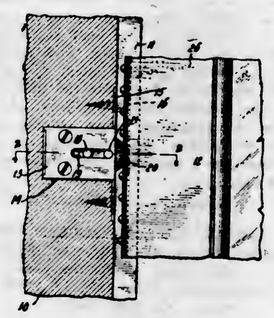
1,387,903. WINDOW-LOCK. CLEO PRICE, Falun, Kans. Filed Aug. 28, 1920. Serial No. 406,621. 2 Claims. (Cl. 292—143.)

1. The combination with a window casing and a sash operating therein, of means for locking the sash including a base, an open-ended barrel carried thereby, a bolt shiftable through the barrel, the barrel having a slot, the bolt having a pin extending through the slot, an arm oscillatably mounted on the base plate and having a slotted end engaging said pin, and a knob on the



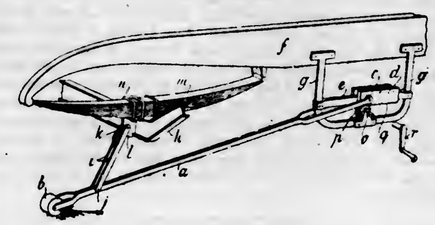
exterior of the casing operatively engaging said arm to oscillate it.

1,387,904. SASH-HOLDER. MAX RACHLIN, New York, N. Y. Filed Mar. 12, 1920. Serial No. 365,187. 1 Claim. (Cl. 292—72.)



A sash-holder comprising a casing having registering horizontal slots in its sides, a bearing-head slidably arranged in said casing having lugs seated in said slots, a spindle in said bearing-head carrying a roller adapted to project through an opening in said casing, the ends of said spindle being seated in said slots, a spring in said casing abutting against said bearing-head, and washers upon the ends of said spindle having projections extending into said slots, said projections being disposed between said spindle ends and the adjacent slot ends.

1,387,905. LIFTING-JACK. FREDERICK LIONEL RAPSON, Liverpool, England. Filed July 11, 1918. Serial No. 244,448. 2 Claims. (Cl. 254—86.)



1. In a lifting jack for vehicles, a chassis, a leg pivoted at its inner end adjacent the axle of the chassis, a bracket secured to the chassis, a bar connected to the bracket, a sleeve slidable on said bar and provided with a rack, a connection between said leg and the sleeve, a pinion journaled on the bracket and having mesh with

the rack of the sleeve so that on operation of the pinion the sleeve is moved along said bar to raise and lower said leg.

1,387,906. KEY-OPERATED FUSE-PLUG. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Nov. 10, 1919. Serial No. 336,924. 5 Claims. (Cl. 200—130.)



1. A removable, key-operated, headless, screw fuse-plug comprising a headless plug-body having a fuse-chamber, a screw-shell in which the said body is mounted, a fuse located within the said chamber, and making contact at its outer end with the said shell, a contact located at the inner end of the body for the inner end of the fuse, and a mica window closing the outer end of the said fuse-chamber, the said body being adapted in length to substantially fit within the screw-shell of a standard receptacle, and being manually removable by means of a removable key.

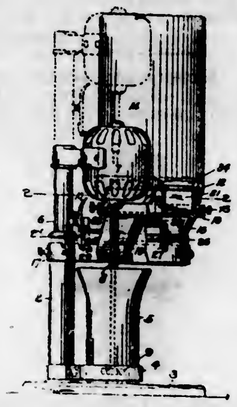
1,387,907. MINIATURE LAMP-SOCKET FOR CHRISTMAS TREES. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies, Inc., Waterbury, Conn., a Corporation. Filed Dec. 12, 1919. Serial No. 344,429. 1 Claim. (Cl. 173—358.)



A miniature lamp-socket for Christmas trees, having a socket-body made of insulating material and formed with a concentric chamber having a longitudinal groove leading out of it and terminating in a recess, a screw-shell located in the said chamber and formed at its outer end with a tubular offset entering the said recess to prevent the shell from turning therein, an electric conductor entering the inner end of the said body and passing through the said groove and having its bared end entered into and secured in the said tubular offset, a center contact insulated within the inner end of the shell, and means for connecting the other terminal cord with the said contact.

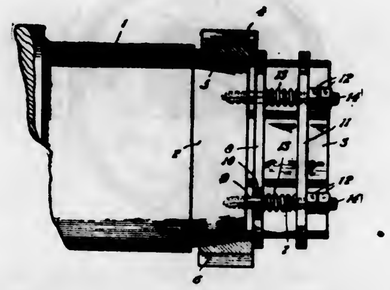
1,387,908. DISPENSING ATTACHMENT FOR BEVERAGE-MIXING DEVICES. ROBERT W. RIEDEL, Ault, Colo. Filed June 9, 1920. Serial No. 387,650. 6 Claims. (Cl. 221—108.)

5. The combination of a beverage mixer having a mixing element mounted for downward adjustment, a dispenser adapted to support an inverted container and capable of operation to discharge the contents of the container in determinate portions and means for the



operation of the dispenser by downward movement of the mixing element.

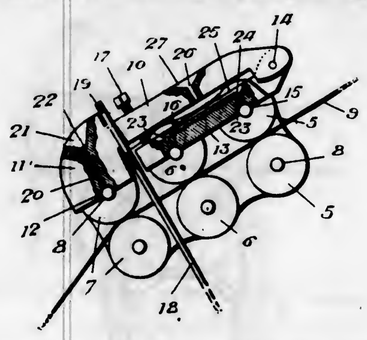
1,387,909. FRICTION-GEAR. HENRY A. ROEMER, Canton, Ohio. Original application filed Apr. 16, 1920, Serial No. 374,284. Divided and this application filed Feb. 7, 1921. Serial No. 443,111. 8 Claims. (Cl. 74—29.)



1. In combination with a shaft having a conical portion, an internally coned gear-ring mounted upon the conical portion of the shaft, pins mounted in the outer end of the conical portion of the shaft, a plate slidably mounted upon said pins, a second plate spaced from the first plate and mounted upon said pins, and springs upon said pins interposed between said plates for normally holding the first named plate in contact with the gear-ring.

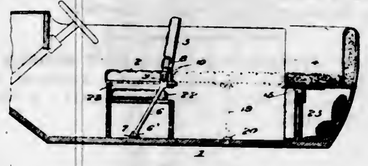
1,387,910. ROLLER-PRESSURE DEVICE. CHARLIE M. ROGERS, Mayo, S. C. Filed June 16, 1920. Serial No. 389,404. 2 Claims. (Cl. 19—33.)

1. In a roller pressure device, the combination with a stirrup bar, of a pair of hingedly connected bars having bearing portions, the last named bars being arranged to swing apart for insertion through the stirrup bar and to be swung together to operative position for retaining



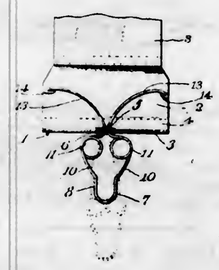
the stirrup bar and second named bars in place relatively to one another.

1,387,911. MOTOR-VEHICLE BODY. GEORGE SHEETS, Washington, D. C. Filed Mar. 26, 1921. Serial No. 455,879. 8 Claims. (Cl. 155—7.)



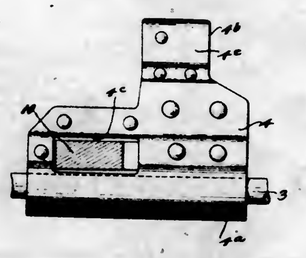
1. A vehicle body of the character described, comprising a plurality of separated front seats and rear seats in alinement therewith, each front seat having a back pivotally secured thereto, means secured to each front seat back for pivotally securing said back to the upper end portion of a bar pivotally secured to the floor of the vehicle body, means formed on said bar near its upper end for rigidly securing said back in upright position, and means for securing said back in a horizontal position.

1,387,912. GARMENT-SUPPORTER. JESSE R. SMITH, Greenfield, Ill., assignor of twenty-five per cent. to Carson A. Linder and twenty-five per cent. to Floyd L. Owens, Greenfield, Ill., and twenty-five per cent. to Dean Corsa, White Hall, Ill. Filed Sept. 15, 1920. Serial No. 410,410. 4 Claims. (Cl. 241—25.)



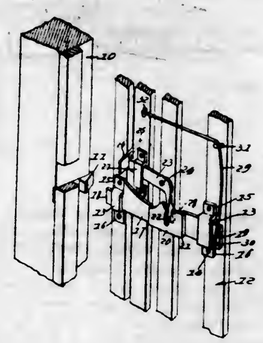
1. The combination with a supporting strap embodying a loop, said loop having an opening formed therein, of an attaching member embodying arms extending through the opening of the loop and normally disposed within the loop, said arms resiliently resisting their withdrawal through said opening by a pull on said member and returning to their normal position within said loop when said pull is discontinued.

1,387,913. LOOM-PICKER. LORAN R. SWAN, Bennington, Vt. Filed May 26, 1920. Serial No. 384,292. 2 Claims. (Cl. 139—21.)



1. A loom picker of the class described, comprising a body formed with an eye at one side and a head at its opposite side, said body being provided with a picker stick opening intermediate said eye and head and adjacent the opposite end of the body from the head.

1,387,914. GATE-LATCH. JAMES L. THOMPSON, Allen, Okla. Filed Nov. 12, 1920. Serial No. 423,600. 4 Claims. (Cl. 292—173.)

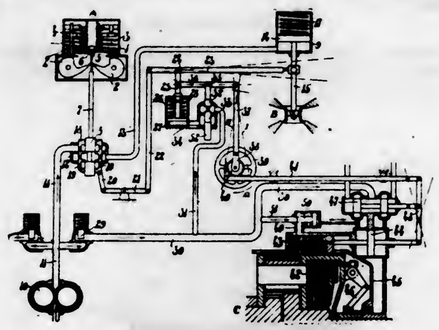


1. In a gate latch, a guide adapted to be secured to the gate, a bolt having ends slidable in the guide, the said bolt having recesses in its edge, the said recessed portion being offset with relation to the bolt, a bolt engaging member comprising a lever consisting of an elongated plate adapted to be pivotally connected to the closure and having the latch engaging end twisted with relation to the said lever, the said latch engaging end being bifurcated to straddle the edge of the bolt and enter the recess thereof to bear against the shoulder formed by the said recess, and means for holding the bolt in normal position.

1,387,915. REGULATING MECHANISM FOR TURBO-MECHANICAL-MACHINE PLANTS. OSCAR ANTON WIBERG and GEORG KARLSSON, Finspong, Sweden. Filed May 7, 1920. Serial No. 379,613. 4 Claims. (Cl. 137—158.)

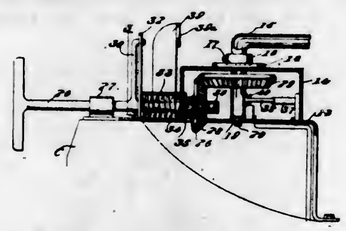
1. Regulating mechanism for turbo-mechanical machine plants, comprising in combination a mechanical reversing device, a hand-wheel for controlling said reversing device, a turbine speed governor, a connection between said hand-

wheel and said speed governor so designed that in turning the hand wheel for effecting a reversal an adjustment



of the governor to operate for a distinct reduced speed will take place previous to the said reversal.

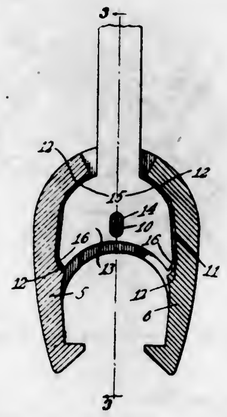
1,387,916. DIRECTION-INDICATING SIGNAL FOR AUTOMOBILES. ALBERT EUGENE BELLER, Ogden, Utah. Filed July 12, 1919. Serial No. 310,306. 3 Claims. (Cl. 116—47.)



1. An auto signal, comprising an angular base plate adapted to be secured to the cowl of an auto, a casing on the plate, an L-shaped tubular shaft journaled in the casing and adapted to swing horizontally over the hood of an auto, an arm telescopically associated with said shaft, a signal carried by the arm, means for actuating said shaft, comprising, a shaft mounted for longitudinal and rotary movement on said plate, a bevel gear keyed to the second shaft and capable of sliding movement thereon, a bevel gear fixed to the first shaft and meshing with the first gear, a locking plate on the base plate, a spring surrounding the second shaft and engageable with the locking plate and with the first gear for biasing the latter into engagement with the second gear, abutment members on the plate for limiting the movement of the first shaft in either direction, and a locking arm fixed to the second shaft and normally engageable with the locking plate under the biasing action of said spring.

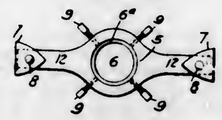
1,387,917. CLAMP. DAVID W. BOWE, Detroit, Mich. Filed June 3, 1920. Serial No. 386,374. 1 Claim. (Cl. 294—106.)

In a hoisting hook, a supporting member having a head, formed at one end thereof, said head having an elongated opening formed therein, opposed jaw sections having pivotal connections with the head, said jaw sections having openings registering with the elongated opening in the head, a bolt passing through the opening, for securing the jaw sections to the supporting member, said jaw section having curved surfaces, said head having curved surfaces, the curved surfaces adapted to coöperate to move the free ends of the jaw sections with relation to each other, when



the head is moved within the jaw sections, and means for locking the jaw sections in an open position.

1,387,918. APPLIANCE FOR MENDING BROKEN VEHICLE-WHEELS. DANIEL J. BROWN, Northport, Nebr. Filed Nov. 24, 1919. Serial No. 340,317. 8 Claims. (Cl. 301—111.)



4. An appliance of the character described comprising a brace having means for securing it to the hub of a vehicle wheel, and means to connect with spokes of the wheel at opposite sides of the hub.

1,387,919. BELT-BUCKLE. SAMUEL BUCHSBAUM, Chicago, Ill. Filed Jan. 31, 1921. Serial No. 441,232. 8 Claims. (Cl. 24—191.)

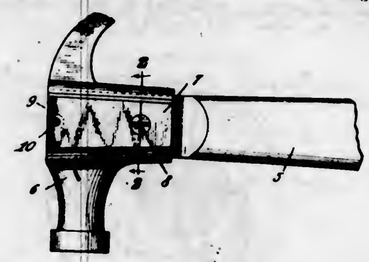


1. A belt buckle of the character described comprising a front plate, a clamping plate having a smooth curved belt engaging portion mounted for movement toward and away from said front plate, and means for moving said clamping plate toward said front plate, said clamping plate being mounted independently of said last mentioned means.

1,387,920. HAMMER. EMIL F. BUSSE, Jerome, Ariz. Filed Feb. 15, 1921. Serial No. 445,200. 1 Claim. (Cl. 145—29.)

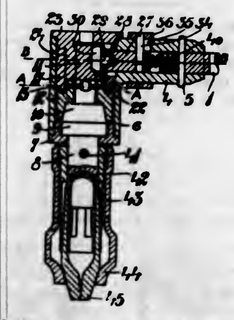
In a hammer, a head having a groove formed in one of the side faces thereof, the groove tapering toward one end of the head, the walls of said groove being inclined, a block of fibrous material having inclined side edges and tapering to conform to the taper of the groove, said block

adapted to be positioned in the groove, means for securing the block within the groove, and said block having a cut



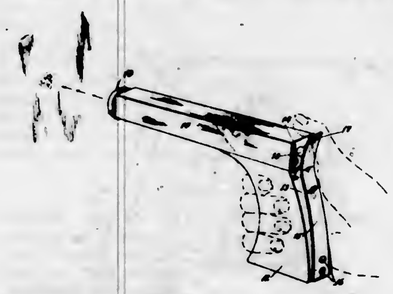
out portion formed at one end thereof to accommodate a nail.

1,387,921. BREAST-DRILL. GUNNAR ELIAS CASSEL, Stockholm, Sweden, assignor to Aktiebolaget Gyro, Stockholm, Sweden, a Corporation of Sweden. Filed Feb. 17, 1920. Serial No. 359,478. 7 Claims. (Cl. 145—70.)



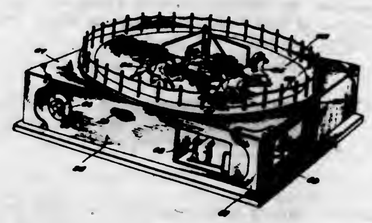
4. In a breast-drill, the combination of a brace, a casing rigidly connected to said brace, a spindle mounted in said casing and carrying a chuck outside thereof, a cone on said spindle, a ring loosely mounted on said cone and having in its upper end one set of inclined friction surfaces for each direction of movement, another ring rigidly connected to said casing and having corresponding sets of inclined friction surfaces for engagement with said first mentioned surfaces, and means for operating the said first-mentioned ring to bring it into contact with the one set of inclined surfaces or the other on the said other ring.

1,387,922. FLY-SWATTER. CHARLES RAYMOND COFF, McKeesport, Pa. Filed Jan. 7, 1921. Serial No. 435,683. 4 Claims. (Cl. 124—12.)



1. A device of the character described including a hand grip having a rear face, a projectile receiving barrel upon the grip having a rear face merging into the rear face of the grip, and a spring hammer mounted upon and closely overlying said rear face of the grip normally resting at one end against the rear face of the barrel, the hammer being manually retractable to permit exposure of a projectile at said rear face of the barrel whereby when the hammer is released the projectile will be struck and discharged from the barrel.

1,387,923. MECHANICAL TOY. JASPER S. COXEY, Spokane, Wash. Filed Jan. 19, 1920. Serial No. 352,270. 2 Claims. (Cl. 46—56.)



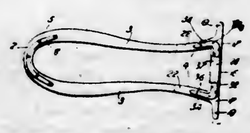
1. A toy comprising a plurality of superposed pulleys, each having a central opening, means for rotating said pulleys simultaneously at relatively varying speeds, standards rising from the several pulleys through the openings in the superposed pulleys, figures carried by said standards, a brake device arranged below the paths of the several figures, star wheels in the respective paths of the several figures and provided each with an elongated tooth to actuate said brake device, and means on the several figures to actuate the respective star wheels.

1,387,924. METHOD OF MANUFACTURING SHELLS. FRANCIS S. DENNEEN, Cleveland, Ohio. Filed Oct. 4, 1918. Serial No. 256,863. 14 Claims. (Cl. 29—1.21.)



1. In the manufacture of shells, providing a blank with an aperture to receive a mandrel, shaping the end of said blank to provide a pilot-portion substantially coaxial with the axis of the mandrel aperture, and hammering said blank while hot and supported on a mandrel between opposed simultaneously-acting dies the acting faces of which are coaxial with said mandrel.

1,387,925. CONSTRUCTION OF SADDLETREES. DANIEL J. FLUDE, Essendon, Victoria, Australia, assignor of one-half to Henry Michael Fetherston and Ferdinand William Schellnack, Melbourne, Victoria, Australia. Filed Feb. 23, 1921. Serial No. 447,132. 7 Claims. (Cl. 54—44.)



2. As a new article of manufacture, a one-piece leather head member for a saddletree, which is structurally

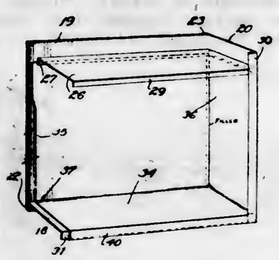
separate from the seat member of the tree and which has an intermediate arched portion from which extend downwardly divergent integral side legs, and integral arms projecting rearwardly from the rear edge of said legs on opposite sides of the intermediate arched portion and adapted to overlap and to be attached to the forward portions of the seat member so as to form an elongated lap joint between the two members.

1,387,926. MOLD FOR STORAGE-BATTERY GRIDS. LEON B. HILLS, Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Filed Nov. 20, 1916. Serial No. 132,316. 1 Claim. (Cl. 22—153.)



A mold for battery grids comprising separable halves adapted, when fitted together, to define a series of communicating passages located in parallel planes, each of said passages containing a reëntrant angle in the boundary of its cross-section.

1,387,927. KITCHEN-CABINET. RUDOLPH HOFFMAN, Kankakee, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a Corporation of New York. Filed Dec. 20, 1920. Serial No. 431,897. 3 Claims. (Cl. 45—16.)

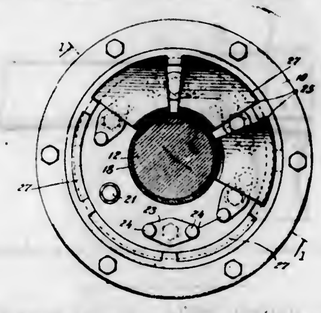


1. A kitchen cabinet having an upper section comprising side and rear walls formed of sheet metal and a bottom wall made from a separate sheet of metal and having flanges to which the lower ends of the side and rear walls are secured, and an inner wall structure formed from a single sheet of metal constructed to provide side, bottom and rear wall portions, the bottom wall portion being integrally connected at its side and rear edges with the rear and side wall portions, and said side and rear wall portions being arranged to overlap at their adjacent edges with the overlapping portions rigidly secured together in a tight joint.

1,387,928. DRY-CELL CAN. HOMER W. JONES, Cleveland, Ohio, assignor to National Carbon Company, Inc., a Corporation of New York. Filed Dec. 22, 1919. Serial No. 346,776. 4 Claims. (Cl. 204—53.)

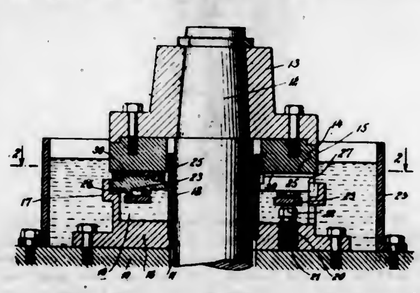
1. In a dry cell, a zinc electrode consisting of a hollow sheet metal member having edges connected by an autogenous weld.

1,387,929. BEARING. ALBERT KINGSBURY and HARRY A. S. HOWARTH, Pittsburgh, Pa.; said Howarth assignor to said Kingsbury. Filed May 5, 1916. Serial No. 95,557. 42 Claims. (Cl. 64—25.)



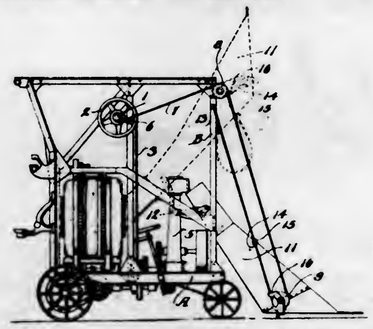
1. A thrust bearing comprising a base, a plurality of equalizing supports tiltably mounted thereon, and bearing shoes mounted on the equalizing supports and flexibly connecting the same.

1,387,930. BEARING. ALBERT KINGSBURY and HARRY A. S. HOWARTH, Pittsburgh, Pa.; said Howarth assignor to said Kingsbury. Filed Aug. 29, 1917. Serial No. 188,725. Renewed Nov. 27, 1920. Serial No. 426,848. 28 Claims. (Cl. 64—25.)



1. A bearing comprising a plurality of circumferentially arranged spaced supports, a resilient ring mounted on said supports, and a plurality of bearing shoes pivotally supported on the resilient ring.

1,387,931. LOADER FOR CONCRETE-MIXERS. ERICH H. LICHTENBERG, Milwaukee, Wis., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1918. Serial No. 225,255. 2 Claims. (Cl. 214—130.)



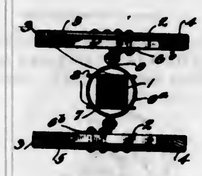
1. In combination, a support, a loading skip movably connected at one end therewith, raising means for said skip comprising a cable anchored at one end and passing around the pulley, means on the support for actuating the said cable, said pulley being formed with clutch grooves adapted to act automatically on breakage of the cable to prevent dropping of the skip.

1,387,932. TOWEL-CABINET. ADOLPH MILLER, Kirkwood, Mo. Filed June 26, 1919. Serial No. 306,867. 5 Claims. (Cl. 45—32.)



1. A towel cabinet comprising a base, a rotatable member secured thereto, a removable seat mounted on said rotatable member and a retaining ring adapted to have towels strung thereon, said towels resting on said seat.

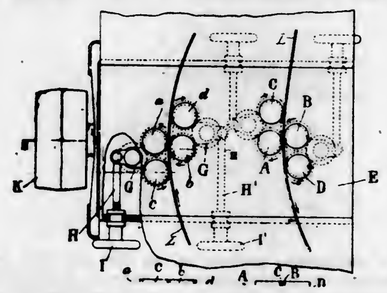
1,387,933. SIGN. NICHOLAS MOLLET, Massillon, Ohio. Filed Apr. 11, 1921. Serial No. 460,326. 4 Claims. (Cl. 40—39.)



1. In a display sign of the character described, the the combination with an upright supporting post, of plates applied to the post and projecting laterally therefrom, a pair of similar sign card receiving frames arranged upon opposite sides of the post in a substantially spaced and parallel relation, upper and lower cross pieces rigidly connecting the sign card receiving frames and provided at intermediate points in their lengths with bearing rings which loosely receive the post to permit of the frames rotating about the post, one of the bearing rings resting upon the projecting portion of the plates.

1,387,934. MEANS FOR MAKING SPRINGS. JOHN C. MONTEITH, Cleveland, and LEE A. FRAYER, Columbus, Ohio. Filed Aug. 13, 1919. Serial No. 317,132. 2 Claims. (Cl. 153—54.)

1. Means for bending spring leaves comprising, in combination, a pair of rolls each having a fixed axis of rotation and between which the leaf is passed, said rolls being geared to rotate in opposite directions, a companion roll for each of said rolls, one of which is geared to its



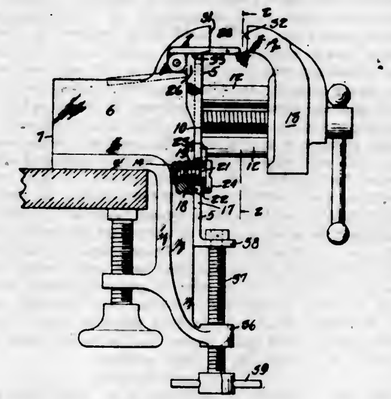
mate and is independently adjustable with reference to the passage between the first mentioned pair.

1,387,935. SAFETY-RAZOR. EDWIN L. PAGE, Bridgeport, Calif. Filed Aug. 18, 1919. Serial No. 318,075. 8 Claims. (Cl. 30—12.)



3. In a razor, the combination with a blade having a cutting edge, of a guard coöperating with said edge, a supporting member adapted to engage said blade, and means operative by the movement of said member in a plane substantially perpendicular to that of the blade for moving said guard in a plane substantially parallel to that of said blade.

1,387,936. VISE APPLIANCE. EDWIN L. PAGE, Oakland, Calif. Filed Apr. 17, 1920. Serial No. 374,528. 2 Claims. (Cl. 81—38.)



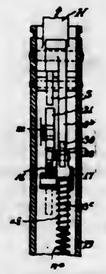
1. The combination with the jaw members of a vise, of a vertically adjustable slide connected to one of said members, and supports connected to said slide and positioned to lie at the opposite ends of said jaws, said supports being movable independently of each other into or out of the area between the planes coincident with the opposing faces of the jaw members.

1,387,937. COMBINATION-GARMENT. SAMUEL PAULL, New York, N. Y. Filed Sept. 1, 1920. Serial No. 407,435. 6 Claims. (Cl. 2—60.)



1. A combination garment of the class described comprising a body portion, sleeve members at the opposite sides of the body portion, the arm-pit portions of said sleeve members being cut out, flaps at the opposite sides of the body portion, said flaps being adapted to be extended into the sleeve members and to be detachably connected therewith.

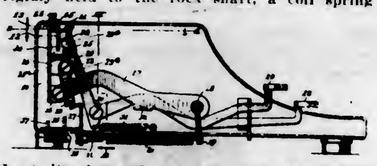
1,387,938. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed Dec. 26, 1919. Serial No. 347,437. 23 Claims. (Cl. 42—3.)



1. In a firearm, in combination, a frame of said firearm, a firing member movable to firing position and to fired position, sear means engageable with said firing-member, slidable means, a grip-compressible member engageable with said frame when in position of safety, and releasable from said engagement by grip-compression, spring means for moving said firing member to fired position, means actuated by said spring means for moving said slidable means in a direction to lock said sear means and firing member in firing position, means for moving said slidable means in a reverse direction when said grip-compressible member is grip-compressed and said firing member is moved to firing position, means engageable with said grip-compressible member and said slidable means for blocking the slidable means in said locking position, and movable by grip-compression of the grip-compressible member, lever means movable by said grip-compressible member and engaging said means for blocking and engageable with trigger means, and trigger means arranged to engage first said lever means, when said grip-compressible member is grip-compressed, to move said blocking means for releasing said slidable means for movement from said locking position, and to engage subsequently said sear means for releasing said firing member for movement to fired position.
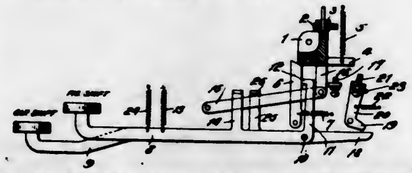
1,387,939. SEGMENT-SHIFT FOR TYPEWRITING-MACHINES. OTTO PETERMANN, Groton, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Sept. 11, 1918. Serial No. 253,544. 23 Claims. (Cl. 197—74.)

1. In a typewriting machine, the combination of a machine frame, a type-bar-hanger support, means for guiding the support to move up and down in the frame, a rock shaft extending transversely of the frame and rotatably supported thereon forward of the type-bar-hanger support, a pair of rock arms rigidly held at their forward ends to said shaft and connected at their rear ends with the hanger support, one of said rock arms being provided intermediate its ends with a lateral projection, a depending arm rigidly held to the rock shaft, a coil spring con-



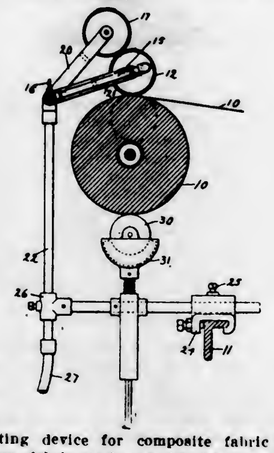
nected at its forward end with said depending arm, tension adjusting means connecting the rear end of the spring with the frame, and a shift key lever overlying said projection on the rock arm and pivotally supported in the frame at a point at the rear of said projection.

1,387,940. SEGMENT-SHIFT FOR TYPEWRITING-MACHINES. OTTO PETERMANN, Groton, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed June 5, 1917, Serial No. 172,855. Renewed Feb. 21, 1921. Serial No. 446,865. 22 Claims. (Cl. 197—72.)



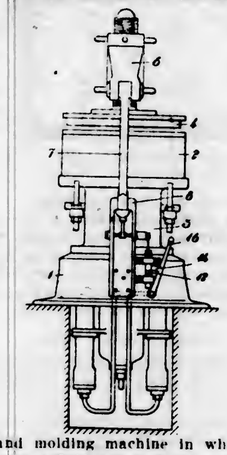
1. Case shift mechanism for typewriting machines comprising a type bar segment, an adjustable stop for determining the normal position of the segment, a spring for normally moving said segment upwardly into engagement with said stop, a locking dog having a cam surface adapted to engage the under side of the segment to wedge and hold said segment in its normal upper position, a case shift lever, and means operated by said lever to release the locking dog and move the segment downwardly to a different case position.

1,387,941. APPARATUS FOR PRINTING ON WAXED PAPER AND THE LIKE. GUNTHER H. PETRI, Brookline, Mass. Filed Jan. 16, 1918. Serial No. 212,004. 7 Claims. (Cl. 101—213.)



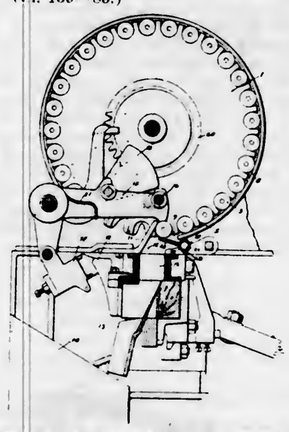
1. A printing device for composite fabric having a printable core fabric and non-absorbent coating, comprising a holder for the fabric, adapted for the fabric to move forward; and means acting on the fabric to modify temporarily the coating along a restricted area; combined with means registering therewith for printing through the modified coating upon the core.

1,387,942. MOLD-PRESSING MACHINE. HUGO EMIL PETTERSSON, Stockholm, Sweden. Filed Sept. 18, 1919. Serial No. 324,494. 2 Claims. (Cl. 22—43.)



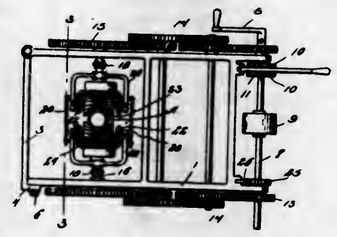
1. In a sand molding machine in which the sand is rammed between a fluid actuated piston in a fixed frame and a presser head adapted to swing on a pillar to permit of the introduction of the sand, in combination: a depending link pivoted to the presser head, a catch device on the fixed frame for engaging the said link, valve operating means on the fixed frame for the control of the pressure fluid to the said piston, and a stop device for preventing the operation of said valve operating means unless the presser head is in correct position over the piston and the said link is in engagement with the said catch.

1,387,943. BOBBIN-SUPPORT. GEORGE R. PLOTT, Hillsboro, N. C. Filed Dec. 1, 1920. Serial No. 427,576. 1 Claim. (Cl. 139—85.)



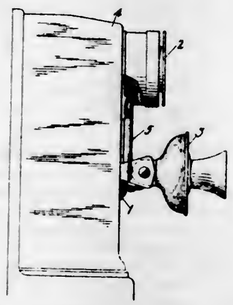
A device for the purpose stated comprising a pintle, a bobbin supporting member comprising a plate formed between its ends with a sleeve pivotally fitting the pintle and having its portions beyond the sleeve in mutual flat contact to provide a supporting leaf, and a spring coiled about the pintle and having operative connection with the leaf to yieldably support the same.

1,387,944. WELL-CASING EXTRACTOR. FILMORE M. PRICE, Floydada, Tex. Filed July 29, 1920. Serial No. 399,761. 4 Claims. (Cl. 254—30.)



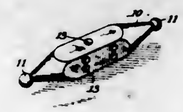
1. An apparatus of the class described comprising a supporting frame, a pair of opposing stub shafts journaled therein, a short shaft connected with each stub shaft by a universal joint, a yoke rotatably mounted on each short shaft, a cross shaft carried by each yoke, gears connecting the cross shaft with the short shaft, a gripping roller on each cross shaft, a drive shaft and gears connecting the same with the stub shafts.

1,387,945. ADAPTER FOR TELEPHONE CALLING DEVICES. HARRY W. PUGH, New York, N. Y., and JAMES A. WOTTON, Montclair, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 11, 1919. Serial No. 337,358. 3 Claims. (Cl. 179—90.)



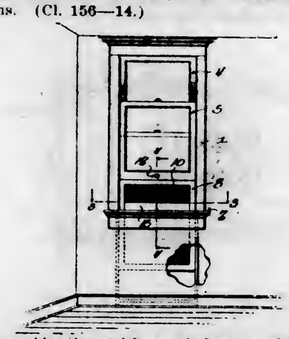
1. In combination, a subscriber's telephone set including a transmitter, an adapter, a calling device attached to one end portion of said adapter, said transmitter mounted on the other end portion thereof, and means for detachably mounting said adapter on said set.

1,387,946. GAME. JOHN RUTHERFORD, Jr., and THOMAS F. BAKER, Albany, N. Y., assignors to The Embossing Company, Albany, N. Y., a Corporation of New York. Filed Nov. 6, 1920. Serial No. 422,325. 7 Claims. (Cl. 46—65.)



1. A game outfit comprising a trigger of polygonal cross section, and a bat, the faces on the trigger and spaced areas of the bat being marked to correspond, whereby the faces of the trigger are identified with or correspond to particular areas on the bat, and vice versa.

1,387,947. WINDOW-SCREEN. ROBERT SCHULZ, Milwaukee, Wis. Filed June 15, 1920. Serial No. 389,071. 6 Claims. (Cl. 156—14.)



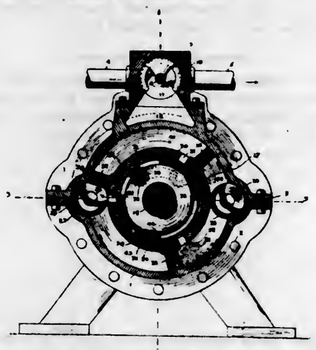
6. The combination with a window or similar frame having an opening in one side providing an entrance way into a sash compartment, and a main sash movable in the frame, of an auxiliary sash movable into and out of the compartment by movement of the main sash, means for detachably connecting the two sashes together, a finishing strip slidable in the frame of the auxiliary sash and normally disposed in said compartment, and means located in the auxiliary sash for moving the strip outwardly a limited extent when the auxiliary sash is moved out of the compartment.

1,387,948. BUTTON. CHARLES SILVERMAN, Providence, R. I. Filed Apr. 14, 1921. Serial No. 461,203. 4 Claims. (Cl. 24—103.)



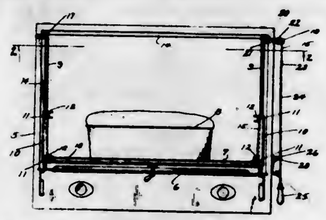
4. In a garment button, a body provided with a diametrical slot and with arcuate slots branching therefrom, a plate rotatably mounted in the body provided with a diametrical channel and with an oblong opening in the channel, and a hook comprising a base slidably mounted in the channel, an arm upon the base extending through the opening and registrable with the slots, a beak upon the arm, and an inclined point upon the beak in the body.

1,387,949. ROTARY ENGINE. ANDREW D. SMITH, Concepcion, Calif. Filed July 29, 1916. Serial No. 112,140. 6 Claims. (Cl. 121—71.)



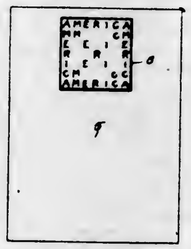
1. A rotary engine comprising a casing, a hollow motor cylinder within said casing, divided interiorly into two longitudinal parts by a cross diaphragm integrally formed with said cylinder, said parts adapted to act as steam passages.

1,387,950. ADJUSTABLE SHELF-SUPPORT. GUSTAV R. SPEAL and ARTHUR W. MIEROW, Milwaukee, Wis. Filed Apr. 29, 1920. Serial No. 377,611. 4 Claims. (Cl. 126—337.)



1. In a device of the class described, the combination of a plurality of guide rods, a shelf, a plurality of members associated with said shelf and slidably engaging said respective rods, said members coöperating with said rods to maintain said shelf substantially horizontally when it is raised or lowered, and a cable associated with said shelf for raising or lowering the shelf relative to said rods.

1,387,951. ADVERTISING-PUZZLE. JAMES T. STANDING, St. Louis, Mo. Filed July 28, 1919. Serial No. 313,907. 1 Claim. (Cl. 46—41.)



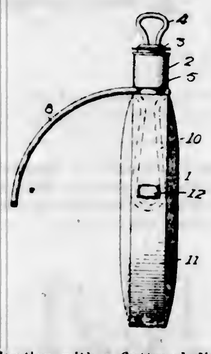
An advertising puzzle comprising a blank, a rectangular figure formed thereon by joining perpendicular and horizontal border lines, a series of rectangular spaces of an odd number formed on four sides of said rectangular figure and along the margin thereof and a series of intermediate rectangular figures formed on said rectangular figure which are also of odd numbers, certain predetermined letters of a word beginning and ending with the same letter and having an odd number of letters adapted to be inserted in said spaces at predetermined times, so that when all of said letters of said word have been placed in said rectangular spaces the said word will be spelled out and be arranged along the four sides of said rectangular figure and diagonally twice through said figure, one of said diagonal words intersecting the other.

1,387,952. SHANK-PIECE AND METATARSAL-ARCH SUPPORT. JOHN STEINBRECHER, Chicago, Ill. Filed Oct. 13, 1920. Serial No. 416,689. 2 Claims. (Cl. 36—71.)



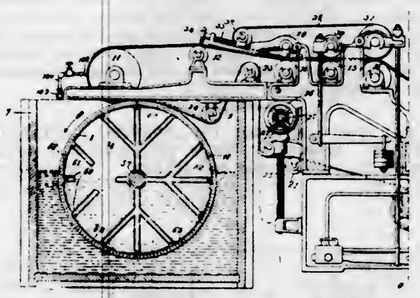
1. In combination with a shoe having a heel, an outer sole and an inner sole and a suitable upper, of means for securing the longitudinal and transverse rigidity between the heel and the forward portion of the sole consisting of a plate inserted between the outer and inner soles and secured thereto and to the heel, said plate being provided with longitudinal reinforcement and having the anterior end thereof formed with an integral upwardly dished portion whereby the central metatarsal area of the wearer's foot is maintained in an arched relation with respect to itself and with respect to the heel.

1,387,953. HOT-WATER BOTTLE. WILLARD E. SWIFT, Worcester, Mass. Filed Dec. 17, 1919. Serial No. 345,561. 5 Claims. (Cl. 220—94.)



1. The combination with a flattened disk shaped receptacle provided on its edge with a hollow projection corresponding substantially with the diametrical axis of the receptacle, said projection having an annular recess, of a handle held in said annular recess and rotatable about the axis of said projection, and means for retaining said handle on the edge of said receptacle.

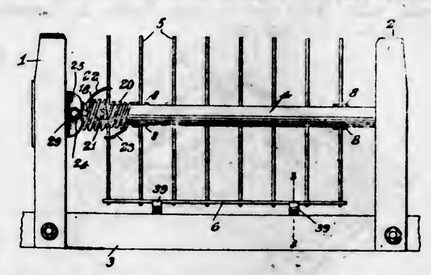
1,387,954. PULP OR PAPER MACHINE. HARRY E. TIDMARSH, Bangor, Me., assignor of one-half to Union Iron Works, Bangor, Me., a Corporation of Maine. Filed Dec. 9, 1919. Serial No. 343,505. 15 Claims. (Cl. 92—42.)



1. A pulp machine comprising means for forming a pulp web, a felt for carrying the web, a set of press rolls between which both the web and felt pass, and a second set of press rolls arranged beyond the first between which only the web passes, said sets of press rolls being constructed and arranged to subject the web to a heavy pressure to remove water therefrom.

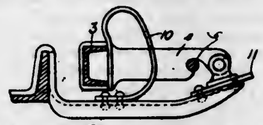
1,387,955. FLOOD-GATE ON STREAMS. BYARD CLEMENCE WILBURN, Apache, Okla. Filed Apr. 30, 1920. Serial No. 377,997. 4 Claims. (Cl. 39—4.)

1. In a combined flood gate and farm gate, the combination of a gate post, a horizontally disposed bearing mounted to swing horizontally upon the post, a vertically tiltable gate frame having a pivot portion mounted to rock in the bearing and to swing horizontally therewith,



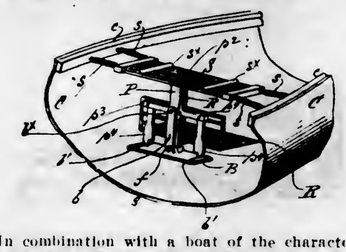
and a spring carried by the bearing and associated with the gate frame to yieldably maintain the latter in a vertical position.

1,387,956. BRAKE-BEAM RELEASE AND SUPPORT. CHARLES HAINES WILLIAMS, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1920. Serial No. 396,438. 7 Claims. (Cl. 188—213.)



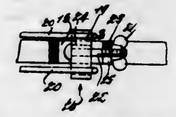
1. A third or fourth point support for brake beams the same comprising a body portion secured to a portion of the car truck, the extremities of said body portion being flared in opposite directions.

1,387,957. CANOE. FREDERICK W. ZEIDLER, Jersey City, and CARL HALPERN, Newark, N. J. Filed Nov. 13, 1920. Serial No. 423,792. 7 Claims. (Cl. 9—7.)



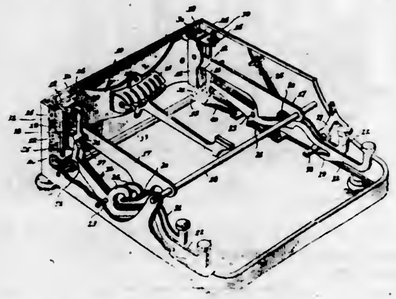
1. In combination with a boat of the character designated, a seat movably mounted, and elastic resilient means tending to maintain the seat in normal position, for the purpose described.

1,387,958. WINDOW-GUARD. HENRY M. AARONS, New York, N. Y. Filed Feb. 2, 1921. Serial No. 441,874. 3 Claims. (Cl. 20—71.)



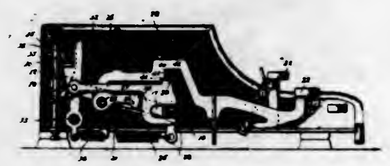
2. In a window guard, a frame, means carried thereby, to engage a window casing, a rod releasably supported by the frame, a link engaging said rod, and means carried by the frame to actuate the link to draw the rod firmly against said frame.

1,387,959. TYPEWRITING-MACHINE. FRANK HUBERT ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Oct. 3, 1918. Serial No. 256,675. 20 Claims. (Cl. 197—72.)



1. In a typewriting machine, the combination of a support shiftable to vary the relation between printing instrumentalities and a platen, means for slidably holding the support to move vertically, a pair of rock arms extending fore and aft of the machine having a pivotal connection at their rear ends with the support, a rock shaft forward of the support to which said rock arms are rigidly held, a pair of shift key levers pivotally supported to swing about a common axis at the rear of the rock shaft and provided with rock-arm depressing parts loosely engaging one rock arm at points intermediate the rock shaft and the support, the rock-arm depressing part on one lever being longer than that on the other lever and engaging the rock arm at a point closer to the rock shaft than the other arm depressing part, and a spring for normally swinging the rear ends of the rock arms upward.

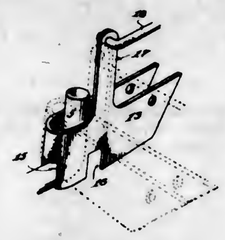
1,387,960. TYPEWRITING-MACHINE. FRANK H. ARMSTRONG, Auburn, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Nov. 11, 1918. Serial No. 261,971. 15 Claims. (Cl. 197—72.)



1. In a typewriting machine, the combination of a frame, a support shiftable in the frame to vary the relation between printing instrumentalities and a platen, means for guiding the support to move up and down in the frame, an arm extending fore and aft of the frame pivotally connected at one end with the support and pivotally held to the frame and having a laterally extending lug intermediate its connections with the support and frame, a pair of shift-key levers fulcrumed in the frame at the rear of the lug and overlying said lug, and a spring for normally moving the support upward, said levers being provided with parts of different length engaging the upper side of the lug at points spaced apart longitudinally of the arm.

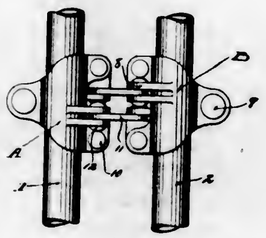
1,387,961. GATE-LATCH. CLARENCE E. AXLINE, Sr., Bryant, Ill. Filed June 25, 1920. Serial No. 391,791. 3 Claims. (Cl. 16—146.)

1. The combination with a gate, a supporting part on which it is hingedly mounted, a keeper for the opposite end of the gate, and a latch to engage it, of a member serrated at its lower edge adapted to swing about said supporting part and adapted to engage the same, of a



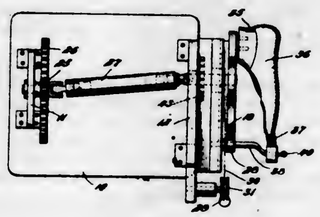
mechanism connecting the latch and said member adapted to operate the latter in the movement of said latch.

1,387,962. HINGE. ERWIN W. BAERWALDT, Stevens Point, Wis., assignor to Farmers Barn Equipment Co., Stevens Point, Wis. Filed June 22, 1920. Serial No. 390,819. 1 Claim. (Cl. 16—11.)



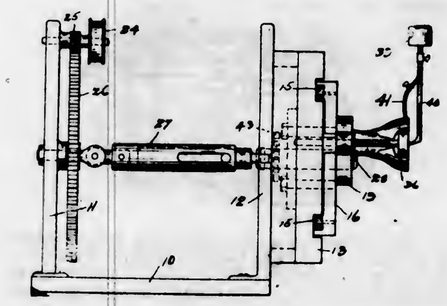
A hinge including a pair of clamps, one forming a support engaging member and the other a gate post engaging member, each clamp comprising a pair of like post embracing plates, a bifurcated ear extending from each of the plates at one side of a transverse plane through the center thereof, means for clamping the pairs of plates together to engage the gate post and support respectively, and a pair of links, each link being pivoted at one end to the ear of one of the support engaging plates and pivoted at its other end to the ear on the diagonally opposite post engaging plate.

1,387,963. METHOD OF APPLYING A COATING FLUID. STEPHEN W. BOURN, Providence, R. I. Filed Sept. 30, 1920. Serial No. 413,829. 4 Claims. (Cl. 91—39.)



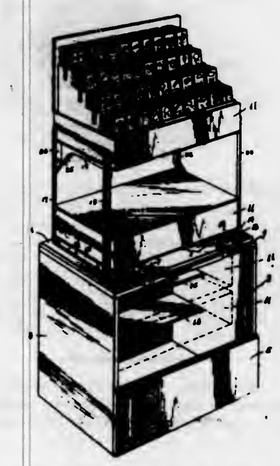
1. An improved method of spreading a fluid coating upon the surface of work, which consists in providing a non-rotatable spreader and automatically feeding the fluid to the point of application and causing a relative movement between said spreader and the work.

1,387,964. SURFACE-COATING MACHINE. STEPHEN W. BOURN, Providence, R. I. Filed Sept. 30, 1920. Serial No. 413,830. 9 Claims. (Cl. 91—39.)



1. In a machine of the character described, means for supporting the work, a non-rotatable fluid spreader, means for supporting said spreader, and means for moving one relative to the other for automatically applying fluid to the surface of the work.

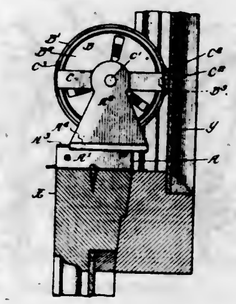
1,387,965. DISPLAY APPARATUS. EDGAR W. BOWEN, Detroit, and ROBERT TURNER, Highland Park, Mich., assignors to D. M. Ferry & Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 23, 1920. Serial No. 412,310. 3 Claims. (Cl. 217—58.)



1. In a display apparatus, a case having a front door hinged at its upper edge to the front edge of the top and adapted to be swung up and back to lie flat upon the top, supports pivoted to the inner side of the door and adapted to be folded up to extend vertically when the door lies on the top, and display boxes mounted on the supports.

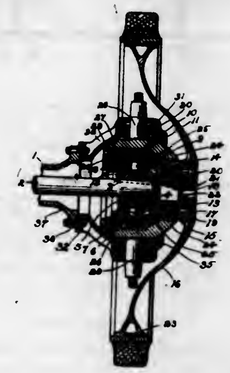
1,387,966. MOUNTING FOR BURGLAR-ALARMS. JAMES M. BUTCHER, Chicago, Ill., assignor to Sentinel Alarm Co., Chicago, Ill., a Corporation of Illinois. Original application filed Oct. 12, 1918, Serial No. 257,751. Divided and this application filed Sept. 18, 1919. Serial No. 324,727. 5 Claims. (Cl. 116—90.)

1. In an alarm device, the combination of an attaching base having upstanding side walls providing a slide track, an alarm carrier having a slide shoe bridging the channel of the attaching base and embracing and sliding upon said track, a friction tongue mounted between said side walls in position to enter into frictional bearing against



said slide shoe, and means for pressing said tongue into said frictional bearing.

1,387,967. DRIVE-WHEEL ASSEMBLY. SILAS V. DUSSEAU, Erie, and MAURICE G. DUSSEAU, Detroit, Mich. Filed Aug. 25, 1919. Serial No. 319,719. 8 Claims. (Cl. 180—48.)

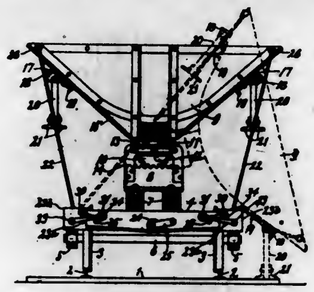


1. In a driven wheel assembly, a hollow semi-spherical fixed outer socket member, a hollow semi-spherical ball member trunnioned in said outer socket member, an inner socket member within the ball member and having a bearing therein, a wheel having a hub portion secured to said inner socket member to rotate therewith within the ball member, the outer end of the ball member being open to receive the hub portion, and driving means extending into the inner open end of the ball member and articulated to the inner socket member for imparting rotation to said wheel, said outer socket member and ball member together forming a spherical casing.

1,387,968. DUMP-CAR. NELS EKBERG, St. Paul, Minn. Filed Mar. 24, 1921. Serial No. 455,079. 8 Claims. (Cl. 105—264.)

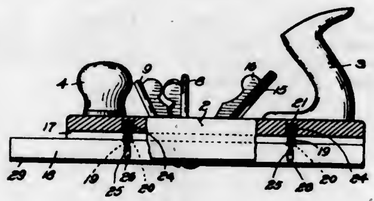
1. A dump car having a laterally tiltable body composed of a single member of segmental form in cross section so as to hold the load when in normal position and dump it automatically when tilted to either side, said body having hangers pivoted one set to each side to swing to

and from the same, a foot rail secured to each set of hangers and arranged to stop the tilting of the car body



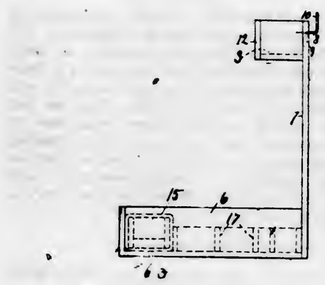
when the rail gets in contact with the track on which the car stands.

1,387,969. PLANE. OTTO ELIAS, Rochester, Pa. Filed Dec. 27, 1920. Serial No. 433,242. 3 Claims. (Cl. 145—10.)



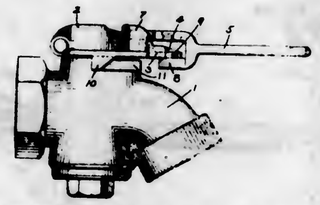
3. A plane comprising a body portion, three bits adjustably secured in said body portion adapted to cut a groove having a flat bottom and outwardly flaring side wall portions, a guide rib formed integral with the bottom wall of said body portion on a line with said bits and adapted to travel in the groove being cut, and a second guide rib resiliently mounted for vertical movement in a slot in said body portion, said last named guide member having its lower side edges beveled, and being adapted to fit in a previously formed groove, thereby guiding said plane to equally space each succeeding groove.

1,387,970. TAILOR'S KIT. LORENCE ERICKSON, Dawson, Minn. Filed Mar. 1, 1921. Serial No. 448,857. 4 Claims. (Cl. 223—53.)



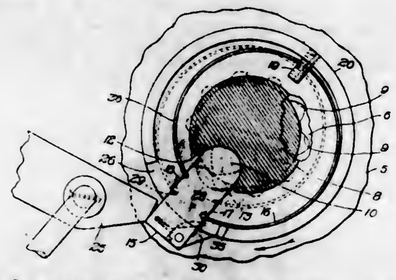
1. A tailor's kit comprising a hollow base open at the top and having its rear wall extended a considerable distance above the base, a series of compartments open at the top along the front of the upper end of said rear wall, and a wire spaced from the rear side of the top of the wall and secured with its ends to the wall.

1,387,971. ANGLE-COCK HANDLE. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 15, 1919. Serial No. 330,786. 3 Claims. (Cl. 254—6.)



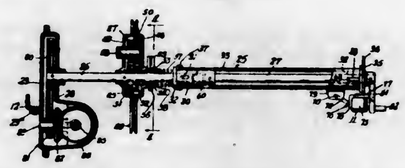
1. The combination with an angle cock device comprising a cock and a locking member pivotally mounted on the cock for operating the cock, of a detachable handle adapted to be applied to said member for operating same.

1,387,972. CLUTCH MECHANISM FOR POWER-DRIVEN PUNCH-PRESSES. ERNEST GAUTHIER, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Sept. 11, 1918. Serial No. 253,546. 4 Claims. (Cl. 192—29.)



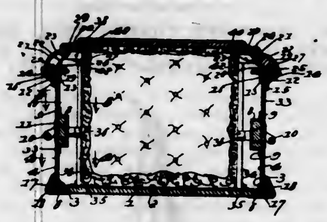
1. In a power driven punch press, a constantly rotating fly wheel, a crank-shaft with which said fly wheel coöperates, a pivotally supported clutch pin for establishing an operative connection between said fly wheel and said crank-shaft, a spring normally tending to swing said clutch pin in one direction into an operative position, means for reversing the action of said spring, and means for holding said clutch pin in a neutral position when the spring is reversed.

1,387,973. GEARING. WILLIAM H. GEORGE, Fairfield, Iowa, assignor to The Dexter Company, Fairfield, Iowa, a Corporation of Iowa. Filed Feb. 7, 1920. Serial No. 357,086. 8 Claims. (Cl. 192—116.)



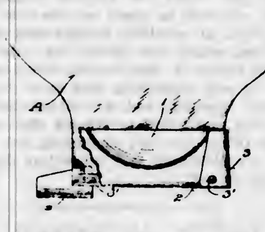
1. The combination of a support, an oscillating operating device in said support, a continuously rotating drive shaft, a second shaft adapted to be driven thereby, clutch means between said shafts, means operatively connecting said second shaft with said operating device, a control member, and means actuated by said control member and operable upon by a part of said means connecting said second shaft with said operating device for throwing out the clutch between said drive and driven shafts.

1,387,974. CASKET. JESSE H. GLEASON, Atlanta, Ga. Filed Sept. 19, 1918. Serial No. 254,826. 2 Claims. (Cl. 27—7.)



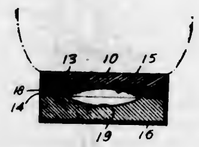
2. A casket embodying a base, side and end walls upstanding from the base, posts disposed within the casket and in spaced relation to each other and in spaced relation to the side walls, a hinged top frame swinging down into abutting position with said posts, and upholstery disposed within the casket and in the plane of the inner faces of said posts, as herein shown and specified.

1,387,975. CLAMP FOR FLEXIBLE CONTAINERS. WILLIAM EDWARD GODDARD, Watertown, Wis. Filed Dec. 27, 1920. Serial No. 433,460. 2 Claims. (Cl. 24—30.)



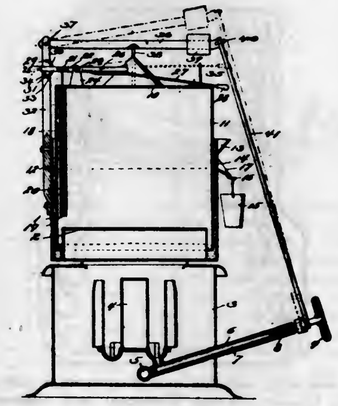
1. A detachable friction clamp for closing the open end of a flexible container comprising a resilient metallic body, folded upon itself to form gripping lips, an end closure for the body, comprising open mouth clips in pivotal union with the base corners of the clamping body, the edges of the clips being contracted from their pivot points so as to progressively compress the clamping lips when said clips are folded against the end edges of the aforesaid clamping body.

1,387,976. RUBBER HEEL. CLARENCE C. GOODMAN, Elyria, Ohio. Filed Aug. 23, 1920. Serial No. 405,435. 3 Claims. (Cl. 36—36.)



1. In a heel of the type described, an upper elastic lift having its lower face free from downwardly projecting portions and having formed therein a continuous groove having a reduced downwardly opening outlet opening through such lower face and a lower lift provided with an upwardly extending bead corresponding in shape and arrangement to the groove of said upper lift, the upper end of said unwardly extending bead being adapted to enter said groove through said restricted outlet openings to secure said lifts together.

1,387,977. CANNING-MACHINE. JOHN C. GREEN, Hackettstown, N. J. Filed Mar. 13, 1919. Serial No. 282,389. 9 Claims. (Cl. 236—31.)



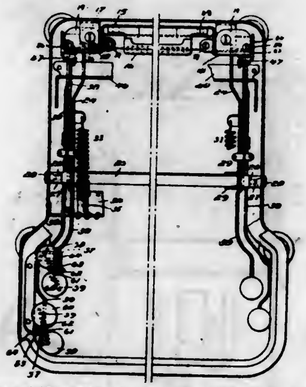
3. In a canning machine of the type comprising a tank and a cover providing a chamber adapted to contain steam and the products to be treated and capable of rising and lowering movements in accordance with variations of the steam pressure therein, means operative by the rising and lowering movements of said cover for controlling the supply of heat to the machine to maintain a steam pressure within the cover, and other means also operative by the rising and lowering movements of said cover to automatically release or interrupt the release of pressure within the cover.

1,387,978. SPRING-CLIP. WILLIAM HALKET, Holyoke, Mass., assignor to L. D. Van Valkenburg, Holyoke, Mass. Filed Jan. 21, 1920. Serial No. 353,117. 1 Claim. (Cl. 24—252.)



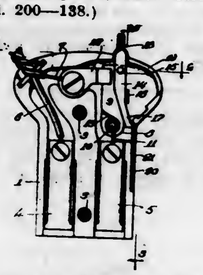
A spring clip consisting of a pair of members, one of said members being provided nearer one end than the other with lateral ears provided with circular openings and the other member being provided with lateral trunnions extending into the openings of the ears and providing a pivotal connection between the two members, the first member having a handle extending rearwardly from said ears and a second member having a handle extending rearwardly from said trunnions, the first member having a relatively wide flat jaw extending forwardly from said ears and a second member having a relatively wide flat jaw extending forwardly from said trunnions, said second member having the body of its jaw offset to prevent the terminal portions of said ears from contacting with the flat surface on which the clip is associated, one of said members being provided with a spring tongue formed integral therewith and deflected inwardly to engage the other member to maintain said jaws in contacting relation, each of the handles being connected to its jaw by a diverging portion to permit of the assembly of the two members.

1,387,979. TYPEWRITING-MACHINE. EDWIN L. HARMON, Groton, N. Y., assignor to Corona Typewriter Company, Inc., Groton, N. Y., a Corporation of New York. Filed Aug. 12, 1919. Serial No. 316,990. 15 Claims. (Cl. 197—72.)



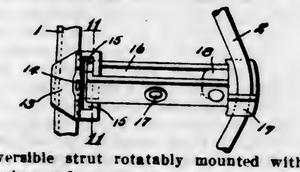
1. A case-shift assembly unit comprising a pair of upstanding brackets having horizontal ears adjacent the upper and lower ends thereof, a pair of vertical guide posts extending between the ears on the brackets and held to said ears, and a vertically slidable support having a pair of vertically spaced horizontal ears at each end thereof slidably held to the posts.

1,387,980. TERMINAL BLOCK. RAYMOND R. HAUGH, Chicago, Ill. Filed Sept. 23, 1920. Serial No. 412,275. 5 Claims. (Cl. 200—138.)



1. A terminal block for electrically heated appliances having a body formed of insulating material, a switch blade pivotally mounted on said block, means for normally urging said switch to its open position, a thermostatic element having one end rigidly secured to said block and having its other end arranged to hold said switch in its closed position against the action of said means, said element being disengaged from said switch blade when the heat of said appliance reaches a predetermined limit.

1,387,981. FLOATING REVERSIBLE STRUT. ARTHUR W. HAWKINS, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed May 24, 1920. Serial No. 383,746. 6 Claims. (Cl. 188—232.)



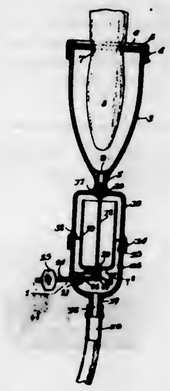
1. A reversible strut rotatably mounted with respect to the tension and compression members of the brake beam and provided with stops for arresting and determining the forty degree angular position of the strut when moved for use in either a right or left-hand position.

1,387,982. DISK-WHEEL CONSTRUCTION. ROSCOE C. HOFFMAN, Indianapolis, Ind. Filed July 6, 1920. Serial No. 394,240. 4 Claims. (Cl. 301—63.)



1. A disk type wheel for vehicles including a supporting disk adapted to carry a tire rim about the periphery thereof, an auxiliary bracing disk mounted adjacent said supporting disk having its outer periphery in engagement therewith, said bracing disk being mounted at an angle to said supporting disk so as to act as an angular brace therefor, and an intermediate disk of less radius than said auxiliary bracing disk mounted between said auxiliary disk and supporting disk for further bracing and strengthening said supporting disk near the center portion thereof.

1,387,983. TEAT-CUP. LEO HOFMEISTER, Milwaukee, Wis. Filed May 5, 1919. Serial No. 294,870. 4 Claims. (Cl. 31—97.)



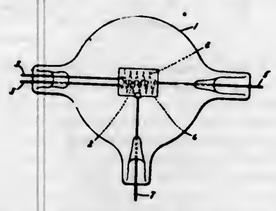
1. A device of the class described, comprising a teat cup, a cup shaped member directly carried by the teat cup, a passageway connecting said teat cup and member, means connecting said member with a suction machine to draw liquid from the teat cup into said member from where it is discharged into a suitable receptacle, and means contained within the cup shaped member for varying the suction in the teat cup according to the flow of fluid.

2. A device of the class described, comprising, in combination, a teat cup, a cup shaped member directly carried thereby, a passageway connecting the interior of the teat cup with the interior of said member, a valve in said passageway, said valve being normally held open by the flow of liquid from the teat cup through the passageway, and means contained within said member for closing the valve when the flow from the teat cup substantially ceases.

3. The combination with a teat cup, of an inverted cup shaped member integral therewith, a passageway connecting the teat cup with said member, a receptacle vertically movably mounted in said member with its opened end in register with the passageway, a valve carried by the receptacle and movable to a position closing the passageway, said receptacle being moved from the passageway by the flow of fluid from the teat cup, and means for moving said receptacle, and with it the valve, toward the passageway to close the same when the flow substantially ceases.

4. A device of the class described, comprising a teat cup having a two part closed end cylindrical member carried thereby, a passage way connecting the teat cup and the cylindrical member, a transverse shaft journaled in said member and having one end positioned exteriorly thereof, a link member having one end fixed to said shaft, a receptacle having its lower end pivotally connected with said link and its upper open end positioned adjacent said passageway, a counter-balanced lever secured to the end of said shaft exteriorly of said member whereby said receptacle is normally yieldingly urged toward the passage way, a valve carried by said receptacle and operable to close said passage way when the receptacle is in its uppermost position, and means permitting the discharge from said receptacle of fluid at a predetermined rate, said receptacle being held away from the passage way by the fluid contained therein and being movable by said counter-balanced lever to close said passage way when the flow substantially ceases.

1,387,984. NEGATIVE RESISTANCE. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 30, 1915. Serial No. 47,938. 38 Claims. (Cl. 250—27.)

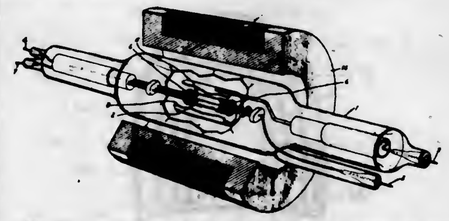


1. A negative resistance device comprising a plurality of electrodes inclosed in a highly evacuated receptacle and having sources of potential applied to said electrodes in such a way that the device has a working range over which the current flow between two of said electrodes increases and decreases inversely as the potential applied between said two electrodes.

35. A thermionic amplifier having a cathode and two coöperating electrodes and means for directly producing by impact an effective emission of secondary electrons from one of said coöperating electrodes by reason of a bombardment thereof by a stream of primary electrons emanating from the cathode.

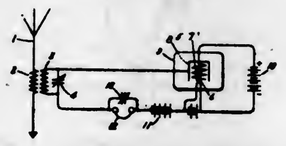
1,387,985. ELECTRON-DISCHARGE DEVICE. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 13, 1916. Serial No. 130,990. 53 Claims. (Cl. 250—27.)

9. The method of amplifying a variable current which consists in producing an emission of electrons from a cathode to a grid anode and a third electrode surrounding said cathode and subjecting the electrons to the action of a magnetic field produced by the current to be amplified in a direction parallel to said cathode.



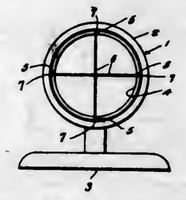
52. The combination in a high frequency signaling system of an electron discharge device having an electron emitting cathode and a coöperating electrode inclosed in an evacuated receptacle, an oscillatory circuit associated with said electrodes in such a way that high frequency oscillations will be produced in said oscillatory circuit, means for producing a magnetic field in the space between said electrodes, and means for varying the strength of said magnetic field in accordance with variations in a signaling current and thereby varying the amplitude of the high frequency oscillations produced in said oscillatory circuit.

1,387,986. WIRELESS RECEIVING SYSTEM. ALBERT W. HULL, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Mar. 10, 1917. Serial No. 154,024. 12 Claims. (Cl. 250—8.)



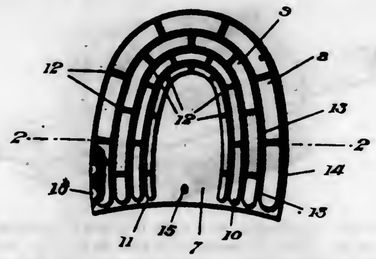
1. Means for receiving wireless signals comprising a circuit which is resonant to the frequency of the signal waves to be received, and a device closely coupled to said resonant circuit so as to reduce the damping thereof and so proportioned and adjusted as to produce oscillations of a frequency slightly different from that of the received oscillations, said device having a working range over which the current flow therethrough increases and decreases inversely as the potential applied thereto.

1,387,987. GUN-SIGHT. CHARLES W. IRION, Red Cliff, Colo. Filed Nov. 8, 1919. Serial No. 336,608. 2 Claims. (Cl. 33—47.)



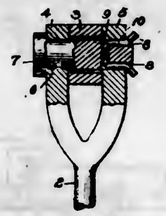
1. A gun sight having a body member, removable crossed sight wires, a sleeve having retaining means serving as gages to position said wires, said wires being positioned in said means and extending beyond the sleeve, and said sleeve being slidable into the body so that the extended portions of the wires will frictionally engage the interior of the body to fasten the wires in place and the sleeve and body against accidental relative movement.

1,387,988. RUBBER HEEL. LOUIS KAPLAN, New York, N. Y. Filed Oct. 16, 1920. Serial No. 417,286. 4 Claims. (Cl. 36—35.)



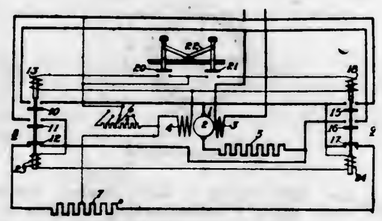
1. A resilient heel having ribs on its tread surface, located one within the other, and of diminishing height to come into contact with the underlying surface one after the other from the outer rib inward as the ribs wear away.

1,387,989. PIVOT-JOINT. CHARLES O. KEAGY, Pitcairn, Pa. Filed May 22, 1920. Serial No. 383,542. 3 Claims. (Cl. 287—100.)



1. In a pivot joint, the combination of a pair of members provided with registering eyes, a pivot pin extending through said eyes and having a pair of oppositely-disposed longitudinally-extending grooves in its side and a transverse opening through tae pin from the inner end of one to the inner end of the other of said grooves, and a strip of bendable metal lying in said grooves and opening and having its ends turned outwardly to lock the pin in the eyes of said members.

1,387,990. CONTROL SYSTEM. HAROLD L. KEITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 17, 1919. Serial No. 345,600. 20 Claims. (Cl. 172—179.)



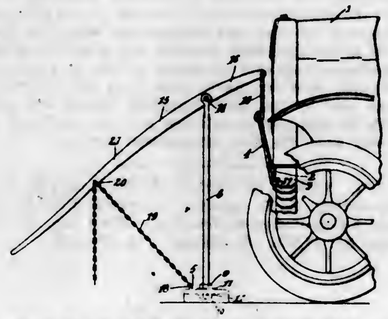
8. The combination with a motor, of reversing and dynamic braking means therefor and a plurality of coils for biasing said means and connected in shunt relation to the motor armature during normal operation and during dynamic braking.

1,387,991. PRESSURE GAGE AND CUT-OFF FOR PNEUMATIC TIRES. EDWARD G. KUNKE and HARRY E. THOMPSON, Oklahoma, Okla. Filed July 14, 1919. Serial No. 310,852. 2 Claims. (Cl. 152—11.5.)



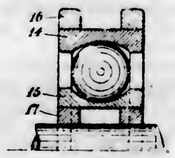
1. The combination with a pressure regulating valve comprising a casing having means for attaching the same to an air supply hose, a piston movable in the casing, a valve carried by the piston and controlling the entrance of air into the casing, air discharge means connected with the casing, and yielding means bearing upon the piston to maintain the valve normally open until the attainment of a specified pressure within the casing which actuating the piston will close the valve, of means connected with the piston and having an exposed terminal whereby the piston may be moved manually for the closing of the valve when desired.

1,387,992. JACK. THOMAS A. LAKE, Hillman, Mich. Filed May 5, 1920. Serial No. 379,079. 1 Claim. (Cl. 254—45.)



A device of the character stated comprising a base, a standard secured to the base, said standard having integral forked legs merging into a shank, the upper end of which is bifurcated, a lever fulcrumed in the bifurcated end of said standard, a link suspended from the short end of the lever and having an eye at its end, an inverted V-shaped coupling member passed through the eye of the link and having its apex seated in said eye, the said member being provided with hooked extremities, and means for locking said lever in place when a weight is being supported by said coupling member.

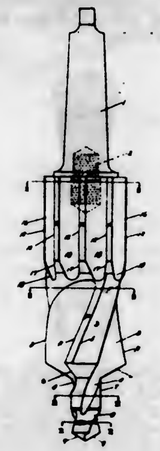
1,387,993. BALL-BEARING. KARL OSKAR LEON, Stockholm, Sweden. Original application filed Nov. 25, 1918, Serial No. 264,068. Divided and this application filed Jan. 5, 1920. Serial No. 349,649. 1 Claim. (Cl. 64—36.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



In a ball bearing, the combination of balls, and races provided with grooves formed in their tracks and having

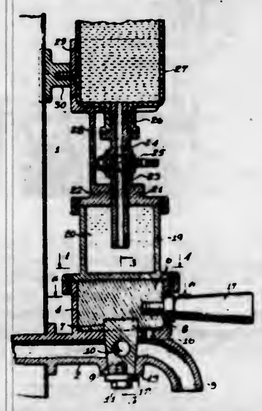
such varying thickness as to become resilient at the said grooves, and flanges consisting of rings fitted to the sides of said races opposite said balls on both sides of said resilient portions of the races.

1,387,994. DRILL. REX W. LEWIS, Portland, Oreg. Filed Feb. 25, 1920. Serial No. 361,095. 2 Claims. (Cl. 77—65.)



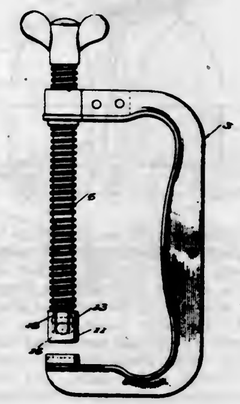
1. A tool for boring boiler tube holes in boiler plate comprising more than two cutting sections each acting as a pilot for the succeeding one, the second section having a small and odd number of cutting blades of sufficient depth to greatly enlarge the hole by which it is piloted and its succeeding section having a number of cutting blades which are a multiple of that of the preceding section, but substantially shallower and exceeding but slightly the external diameter of the next preceding section.

1,387,995. DISPENSING APPARATUS. JOHN H. LIMPERT, New York, N. Y. Filed Nov. 5, 1920. Serial No. 422,007. 7 Claims. (Cl. 221—96.)



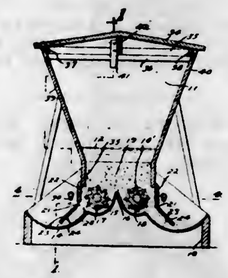
1. A dispensing apparatus for a liquid receptacle having an outlet passage, comprising a valve in said passage, a liquid chamber associated with said receptacle and adapted to receive liquid from a second receptacle, a second valve associated with said chamber and having a recess of a definite size therein adapted when the valve is in a normal position to receive liquid from said chamber, and means for moving both of the valves to cause the mixture of the liquid from both of said receptacles.

1,387,996. PRESSURE-SCREW. EDWARD W. MENGER, San Antonio, Tex. Filed June 24, 1921. Serial No. 480,174. 3 Claims. (Cl. 144—304.)



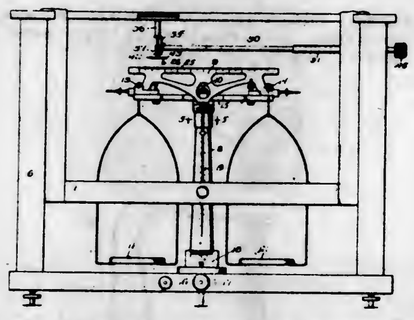
1. A pressure screw comprising a body having its forward end provided with a head and an annular rib, a shoe having a socket receiving said head and having yieldable side walls provided with a groove receiving said rib, and a sphere shaped bearing confined between the bottom wall of said socket and the forward end of said head.

1,387,997. HOG-FEEDER. FRANK HOWARD PAGE, Waverly, Iowa. Filed Nov. 15, 1919. Serial No. 338,301. 3 Claims. (Cl. 119—54.)



2. A hog feeder comprising a hopper for receiving feed, a feed roller arranged adjacent the bottom of the hopper, said hopper being formed with an opening adjacent said roller whereby as the roller rotates the feed will be forced through said opening, a ratchet wheel secured to said roller, a pawl for actuating said ratchet wheel and said roller, means including a vibrating bar operated by the hog for actuating said pawl, and a flapper bar pivotally mounted on the hopper below said vibrating bar whereby it will act as a guard for preventing a hog reaching said vibrating bar while eating.

1,387,998. ANALYTICAL BALANCE AND THE LIKE. WILLIAM M. PESTEL, Chicago, Ill., assignor to Schaar & Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 24, 1920. Serial No. 360,665. 5 Claims. (Cl. 265—54.)

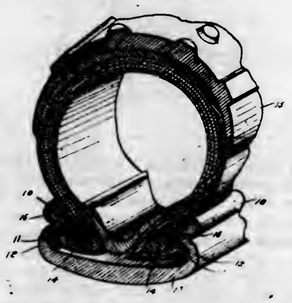


1. The combination with an analytical balance having in its upper portion a horizontally extending rider beam, and an inclosing casing for said balance; of a rider carriage for said beam, said rider carriage comprising a sleeve secured in the side wall of the casing at a point of greater elevation than the rider beam, a tube rotatably and slidably mounted within said sleeve, and having its inner end within said casing above the rider beam and having its outer end outside of the casing, and provided with a suitable head member secured to the inner end of said tube above the rider beam, a vertically arranged plunger slidably mounted in said head member, a horizontal pin on the lower end of said plunger, a spring in the head member normally raising the plunger and pin, a rod extending through the sleeve aforesaid, and having its outer end outside of the casing and provided with an operating finger piece, and a rocking connection between the inner end of said rod and plunger whereby when the rod is rocked by rotation of the finger piece, the plunger is depressed to carry its cross pin into close proximity to the rider beam, substantially as described.

1,387,999. COMPOSITION FOR MATCHES AND PROCESS FOR MAKING SAME. MANUEL PRADO P., Santiago, Chile. Filed Dec. 19, 1919. Serial No. 346,111. 7 Claims. (Cl. 52—27.)

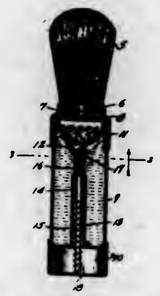
1. A complete composition of matter for match heads, capable of igniting by friction, including a slight excess of alkaline material so that there will be no free acid present.

1,388,000. RIM-GUARD FOR TIRES. RAY W. PRITCHARD, Baltimore, Md. Filed June 2, 1920. Serial No. 386,129. 1 Claim. (Cl. 152—26.)



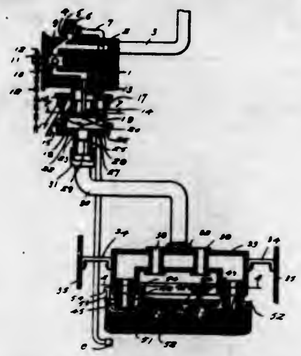
As a means to prevent rim-cutting of a tire, a flange to engage the inner surface of the bead-securing flange of the rim, a flange integral with the first flange extending therefrom over the edge of the bead securing flange and being curled into a tube engaging the exterior of the securing flange whereby the tube and first flange clasp the bead securing flange, said means being resilient and split with overlapping portions at the tube, and a means in the tube extending into the overlapping portions to reinforce them.

1,388,001. SHAVING-BRUSH. PAUL PASQUALE PUPILLA, New York, N. Y. Filed Mar. 27, 1920, Serial No. 369,236. Renewed Feb. 12, 1921. Serial No. 444,537. 6 Claims. (Cl. 15—50.)



1. A brush, including bristles, a base for such bristles, said base being formed with an opening, a bulb positioned to the rear of and in communication with said opening, a handle forming a reservoir, said bulb being formed with an opening permitting of communication between the same and the reservoir forming handle, and means for actuating said bulb to expel fluid within the same through the base opening.

1,388,002. INCANDESCENT GAS-BURNER. WILLIAM G. ROBEY, Grafton, W. Va. Filed July 27, 1920. Serial No. 399,273. 4 Claims. (Cl. 67—94.)



4. A burner device having a fuel mixture regulator comprising a nipple, a valve needle mounted thereby, a valve member screwed to the nipple having an opening to receive the needle, a flange extending from the nipple, a second nipple having a flange extending therefrom, a tube intermediate and positioned by the flange, and closures overlapping the flanges and screwed to the exterior of the tube.

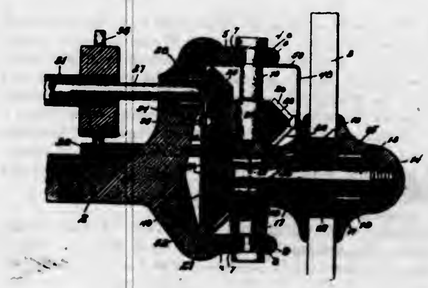
1,388,003. BATHING-BOAT. JOHN SEBETO, Brooklyn, N. Y. Filed Mar. 19, 1921. Serial No. 453,598. 8 Claims. (Cl. 9—18.)

1. A structure of the class described, including a hull having a well extending through the bottom in which the user may assume a standing or sitting posture, and a swingable seat on said structure adjacent to the rear end of the well adapted to be swung upwardly against the



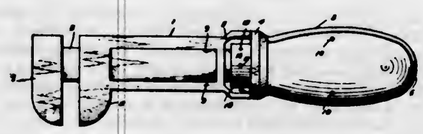
back wall of the well or to the lowered horizontal position for use, there being supporting means on the hull for the seat when lowered.

1,388,004. DRIVING AND STEERING MECHANISM. JOSEPH SCHMIT, Lansing, Mich. Filed June 26, 1918. Serial No. 242,060. 5 Claims. (Cl. 180—43.)



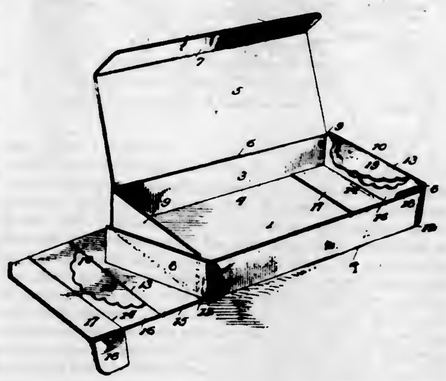
1. In a wheel drive for motor vehicles, the combination of an axle, a knuckle pin included on the axle and having a sleeve extending therefrom and integral therewith, and also provided with a circumferential journal portion between one of its ends and said sleeve, a wheel driving spindle journaled in the sleeve, a wheel having a hub fixed to said spindle and mounted to rotate upon the sleeve, a gear carried by the spindle, a gear meshing therewith and slidably and rotatably mounted upon the circumferential bearing surface of the knuckle, a drive gear meshing with the second named gear, and means for advancing and retarding said drive gear to permit the second named gear to have sliding motion on the knuckle.

1,388,005. WRENCH. HARRY J. SMITH, Bend, Oreg. Filed Sept. 3, 1920. Serial No. 407,866. 5 Claims. (Cl. 81—169.)



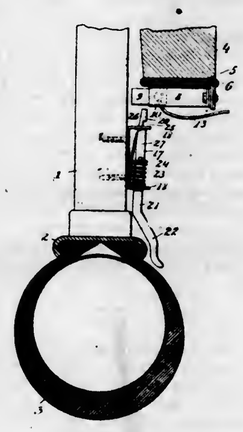
1. A wrench comprising a body portion, a stationary jaw carried at one end of said body portion, a neck formed at the opposite end of said body portion and having open sides, a handle projecting from said neck and having open sides, side handle members for closing the open sides of the handle, a shank slidable through said body and through the neck and the handle, an outer jaw carried by said shank, means within said neck for locking the shank in adjusted position to prevent movement of the outer jaw with respect to the inner jaw, and means within said handle to limit outward movement of said shank.

1,388,006. BOX-BLANK. JESSE SHOFF, Cincinnati, Ohio. Filed Oct. 15, 1920. Serial No. 417,166. 1 Claim. (Cl. 229—34.)



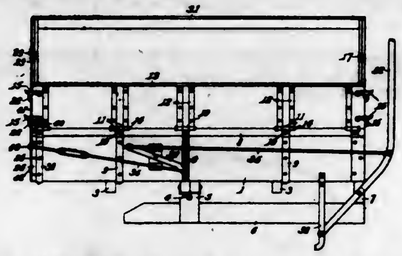
A box blank having a bottom, and side flaps formed with extension pieces, said bottom having ends formed in three sections, the inner and middle sections to be folded over said extension pieces and the outer section to lie on the bottom and formed with a tongue extending upward adjacent the outer side flap, and a cover having an edge lip to be received between said tongue and said side flap.

1,388,007. AUTOMATIC TIRE-SIGNAL. WILLIAM ANTHONY STEPHENS, Oakland, Calif. Filed Nov. 22, 1919. Serial No. 339,834. 4 Claims. (Cl. 200—58.)



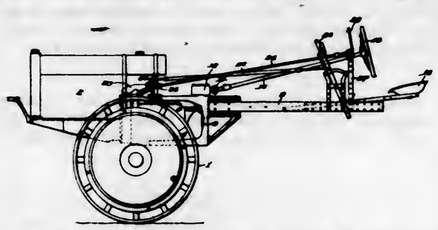
1. Means for indicating deflation of automobile pneumatic tires, comprising a trigger attachable to a portion of the automobile wheel, locking means for holding the trigger in retracted position, and a normally open circuit closer having interposed insulating material temporarily lodged in the path of the trigger for complete discharge of said insulating material from the circuit closer and the closing of the latter.

1,388,008. BODY FOR TRUCKS. BLAKE TAYLOR, Roanoke, Va. Filed Mar. 12, 1921. Serial No. 451,732. 6 Claims. (Cl. 296—32.)



1. A body structure for trucks, comprising a main body of box-like form, and a knock-down superstructure removably mounted thereon, said superstructure comprising side-boards adapted to seat in inclined positions upon the sides of the main body, means for attaching said side-boards to said sides, front and rear end walls fitting between said side-boards, the front wall resting upon the end wall of said main body, means detachably connecting said end walls to said side-boards, an end-gate adapted for suspension from the main body when the superstructure is omitted and for mounting on the rear end of the superstructure when the latter is used, and means for automatically actuating said end-gate to and from closing position.

1,388,009. TRACTOR. CARL F. WALZ, Minneapolis, Minn., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed July 26, 1920. Serial No. 398,988. 10 Claims. (Cl. 180—77.)



1. The combination in a tractor having a power unit comprising transmission gearing and a beam relatively movable with respect to said unit, of means for shifting said gearing comprising shifting means movable with said beam, intermeshing gears supported adjacent said power unit, means connecting one of said gears with said transmission gearing and means connecting the other of said gears with said shifting means.

1,388,010. DISPLAY-RACK. EDGAR WATSON, Chicago, Ill. Filed May 21, 1921. Serial No. 471,350. 1 Claim. (Cl. 40—148.)



In a display rack, a frame, a glass mounted in the front part of said frame, a door hinged to the back of said frame, a series of posters removably secured to the inner surface of said door, a flexible mounting sheet likewise supported on said door between said posters and said door, and spring means between said mounting sheet and said door for pressing outwardly upon said mounting sheet, whereby the outermost poster is pressed against the inner surface of said glass.

1,388,011. METALLIC CEMENT. FRANK P. WEST, Chicago, Ill. Filed Jan. 11, 1921. Serial No. 436,601. 2 Claims. (Cl. 106—8.)

1. A metallic cement composed of oxid of iron, oxid of zinc, litharge, comminuted aluminum and water glass.

1,388,012. SILO-HOOP TIGHTENER. WILLIAM ZULCH, Cobleskill, N. Y. Filed Dec. 1, 1920. Serial No. 427,551. 5 Claims. (Cl. 217—95.)



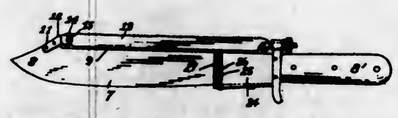
3. The combination with an annular body and a flexible device encircling the body, of pairs of channel guide blocks spaced apart and secured to the outer face of the body, plates slidable in the guide blocks and connected to the ends of the flexible device, and means for positively moving the plates toward each other, said means comprising a pair of flanges on the guide blocks having alined openings therein, a threaded rod located through said openings, and adjusting nuts on the ends of the rod confining the flanges between them.

1,388,013. CORNCRIB AND THE LIKE. FOLGER ADAM, Joliet, Ill., assignor to Illinois Wire & Mfg. Co., Joliet, Ill., a Corporation of Illinois. Filed June 30, 1919. Serial No. 307,495. 3 Claims. (Cl. 98—26.)



1. A crib for the purpose specified, comprising in combination a circular inclosure constructed of a plurality of superimposed sections of slat fencing, comprising parallel slats and cross stay wires each of said sections being circular form and having their adjoining slat ends interwoven and having their slots standing in a vertical position, a platform on which said inclosure is mounted, means for supporting said platform above the surface of the ground to provide a ventilation space thereunder, there being a vent opening through said platform and a vent extending upwardly through the central portion of the inclosure, said vent comprising a series of superimposed sections of slat fencing comprising parallel slats and cross stay wires and having their slots extending in a vertical direction, and the lower end of the vent being in communication with the vent opening in the platform, for the purpose specified.

1,388,014. COMBINED KNIFE AND SAW. HAROLD AIGUIER, Kearny, N. J. Filed Mar. 12, 1921. Serial No. 451,919. 1 Claim. (Cl. 7—1.)



A butchering implement including a blade and a handle, a clamp member secured to the free end of the blade and adapted for engagement with a saw blade, a second clamp member comprising a square socket having spaced depending integral arms secured to said blade adjacent the handle, a square bar slidable in the socket and having a forked portion engageable with an end of the saw blade, a threaded end portion extending from the square bar, said bar being slidable in the socket with the end portion projecting therefrom, and a nut on said end portion engaging the socket portion of the second clamp to draw the bar inward and thereby tension the saw.

1,388,015. MARBLE-GUN. MACK BANKS, Chicago, Ill. Filed Apr. 19, 1920. Serial No. 374,977. 1 Claim. (Cl. 124—12.)

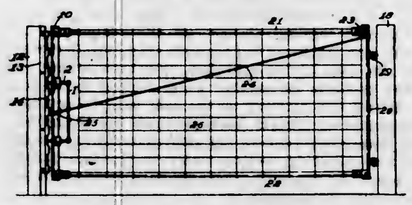


A toy gun comprising a barrel having an opening therein between its ends, a spring pressed plunger in said barrel and including a head, a spring pressed sear pivoted exteriorly to the barrel and having an end projectable through said opening for releaseably engaging said head, a trigger, and a rod connected to said sear and detachably connected to said trigger.

1,388,016. MANUFACTURE OF ALKYLENE CYANHYDRINS. WALTER BAUER, Darmstadt, Hessia, Germany, assignor to the Firm Röhm & Haas, Darmstadt, Hessia, Germany. Filed Nov. 11, 1920. Serial No. 423,465. 2 Claims. (Cl. 23—24.)

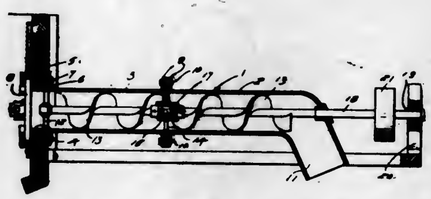
1. The process for the manufacture of alkylcyanhydrins from alkylenehalogenhydrins and a solution of cyanid, characterized thereby that the change takes place in a pure water solution under the influence of cooling.

1,388,017. LATCHING MEANS FOR FLEXIBLE GATES. CHARLES B. BAUMGARTNER, Manchester, Iowa, assignor to National Manufacturing Company, Manchester, Iowa, a Corporation of Iowa. Filed Sept. 29, 1919. Serial No. 327,228. 1 Claim. (Cl. 292—162.)



Latching means for a flexible gate, comprising a fixed standard provided with a plurality of longitudinally-alined spaced elongated sockets, the adjacent gate-stile having spaced longitudinally-alined orifices positioned opposite sockets of said standard, a catch-device consisting of catch-rods passed through the stile orifices, yieldable resilient means connected to said catch-rods to propel them toward said standard, and a connecting-rod pivotally connected to and between said catch-rods.

1,388,018. WATER-MOTOR. ENOCH J. BRADY, Burkburnett, Tex. Filed Nov. 19, 1919. Serial No. 339,072. 1 Claim. (Cl. 253—32.)

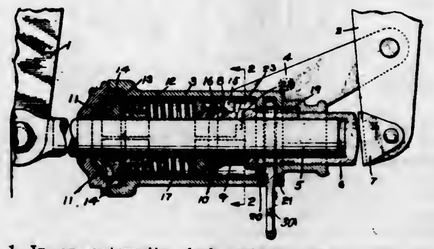


A water motor comprising a tube having an offset discharge portion, a bearing spaced from and opposite to the offset discharge portion, a water driven power element in the tube projecting through and journaled in said offset discharge portion, said element also being journaled in said bearing, and a power take-off means on the element intermediate the offset discharge portion and said bearing, said tube being in sections, a bearing disposed intermediate said sections, securing means common to the second bearing and said sections, a coupling journaled in the second bearing, and said power element being made in sections and coupled by said coupling member.

1,388,019. COMPOSITION OF MATTER. SIGRID BREITHOLTZ, New York, N. Y. Filed June 12, 1920. Serial No. 388,691. 3 Claims. (Cl. 99—10.)

1. As an article of manufacture, a pastry composition consisting of the following ingredients, namely, flour, a shortening material and a weak infusion of tea leaves, said ingredients being mixed in about the proportion of two cups of flour, one cup of shortening material and two tablespoons of infusion of tea leaves.

1,388,020. AUTOMATIC SLACK-ADJUSTER. THOMAS R. BROWN, Pittsburgh, Pa., assignor to American Brake Company, St. Louis, Mo., a Corporation of Missouri. Filed Apr. 30, 1919. Serial No. 293,878. 8 Claims. (Cl. 188—199.)

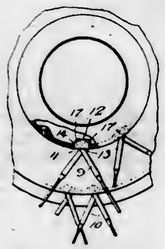


1. In an automatic slack adjuster, the combination with brake levers and adjustable members operatively connecting said levers, of friction grippers for engaging one of the adjustable members and a tiltable ring for forcing the grippers into gripping engagement with said member.

1,388,021. WIRE-SPOKED WHEEL. EDWARD G. BUDD, Philadelphia, Pa., assignor to Budd Wheel Corporation, Philadelphia, Pa., a Corporation of Virginia. Original application filed July 19, 1916, Serial No. 110,112. Divided and this application filed Feb. 13, 1918. Serial No. 217,013. 2 Claims. (Cl. 301—59.)

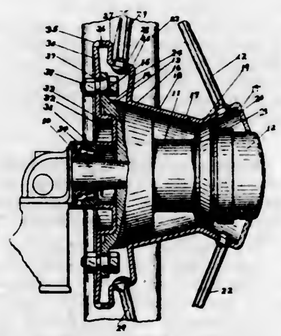
1. In a structure of the class described, the combination with a hub shell and a rim, said hub shell having a

plurality of spaced openings therein, of a plurality of anchor blocks, each engaging the inner surface of the hub shell and having a central reduced portion disposed in one of said openings and a straight passage way



therethrough with one end thereof opening inside said hub shell, and a plurality of straight spokes each having one end disposed in one of said passageways and the other end connected to said rim.

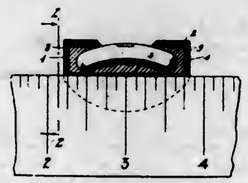
1,388,022. HUB STRUCTURE OF DETACHABLE WIRE-SPOKED WHEELS. EDWARD G. BUDD, Philadelphia, Pa., assignor to Budd Wheel Corporation, Philadelphia, Pa., a Corporation of Virginia. Filed June 7, 1918. Serial No. 238,705. 4 Claims. (Cl. 301—9.)



1. In a hub structure, the combination of an inner hub having an enlarged inner end portion with a seating depression in the end surface of said enlarged end; a flange on the inner end of said enlarged portion of the hub; a coupling plate secured to the inner side of said flange and extending outwardly therefrom; locking projections on said outwardly extending portion; a centrally and outwardly pressed portion on said coupling plate, adapted to be seated in the seating depression in said inner end surface of the hub; a wheel hub, adapted to be seated on the inner hub and having an enlarged flange portion as an inner end; and locking projections on the outer edge of the flange portion adapted to coöperate with the locking projections on the outwardly extending portion of said coupling plate.

1,388,023. LEVEL-HOLDER. FRANK BUTLER, Los Angeles, Calif. Filed Aug. 28, 1920. Serial No. 406,552. 2 Claims. (Cl. 33—207.)

1. A level holder, comprising a cylindrical portion having wings thereon and adapted to clamp a support, and downwardly and inwardly projecting tongues on the ends of the cylindrical portion adapted to engage in

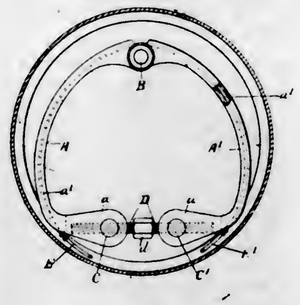


recesses in the ends of a spirit level and hold the latter against turning movement in the cylindrical portion.

1,388,024. EGG-PRESERVATIVE. VICTOR CLAIREMONT and CHRISTIAN T. LEHMANN, San Francisco, Calif. Filed Oct. 29, 1919. Serial No. 334,255. 1 Claim. (Cl. 99—8.)

A composition for treating eggs which comprises a light mineral oil of the Russian variety, paraffin which has been dissolved in oil and rosin all in the proportions such that the oil acts as a medium for introducing paraffin and rosin into the pores of the shells of eggs, the rosin aids the paraffin in hardening and remaining solid as a thin hard coating without embodying a rosin taste to the eggs, the rosin also acts as a germicide and the paraffin reduces the glaze-like appearance of the rosin.

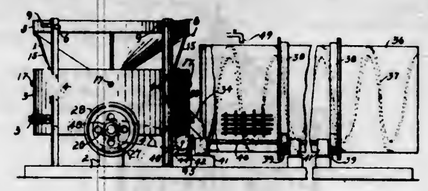
1,388,025. SUPPORT FOR BOILER-FLUES. EDWARD W. CLARKE, Kingston-upon-Hull, England. Filed Nov. 9, 1920. Serial No. 422,972. 1 Claim. (Cl. 122—136.)



The combination, with the horizontal fire flue of a boiler, of a support for the flue comprising two curved bars pivoted together at one end and adapted to fit in the flue with their free end portions extending downwardly below the axis of the said flue, said bars having longitudinal passages for cooling water formed in them and the pivoted end portions of the said bars being adapted to be placed in contact when the bars are expanded, so as to operatively connect the said passages, pipe connections for supplying cooling water to the said passages, and means for expanding the said bars arranged between their lower end portions.

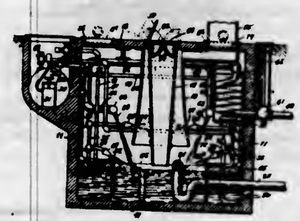
1,388,026. NUT-HULLER. JOSEPH A. CONNER, Santa Clara, Calif. Filed Feb. 1, 1921. Serial No. 441,637. 10 Claims. (Cl. 146—14.)

1. A nut hulling machine including a revoluble huller plate, a brush mounted in spaced and substantially parallel relation thereto, means for feeding nuts to be hulled on to the central portion of said plate, and a buffer



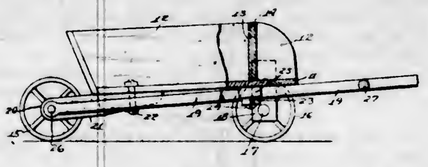
element mounted to receive the impact of the hulled nuts discharged by said plate.

1,388,027. SNOW-MELTING APPARATUS. PATRICK CONNOLLY, New York, N. Y. Filed Aug. 19, 1918. Serial No. 250,432. 14 Claims. (Cl. 126—343.5.)



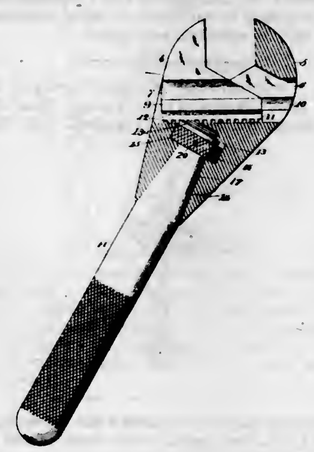
1. Snow melting apparatus, comprising in combination a melting chamber, a chute extending downward into the chamber for receiving snow to be melted, a heat confining casing located within the melting chamber and extending about the chute and spaced therefrom, a burner nozzle for directing a heating flame against the outside of said chute within the casing, means for supplying air to said chamber, means providing an outlet passage for the products of combustion leading from the upper part of said casing, and a drain outlet leading from the lower part of said chamber.

1,388,028. CONVERTIBLE VEHICLE. SAMUEL E. CREASEY, Sanford, Me. Filed Aug. 16, 1920. Serial No. 403,875. 3 Claims. (Cl. 280—29.)



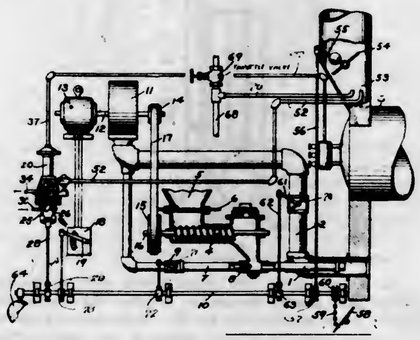
1. A vehicle as characterized having a single pilot carrying wheel; hand bars pivotally connected therewith in line with the axis thereof, said hand bars being adapted to swing in front of and to the rear of said wheel; means mounted on said vehicle for holding said hand bars rigidly in rearwardly extended disposition; and means for mounting said wheel on said vehicle to permit a lateral swing of said wheel relative to said vehicle, said means embodying a swivel block and king bolts for attaching the same to the body of the vehicle, said swivel block having forwardly extending arms for supporting the axle of said wheel.

1,388,029. WRENCH. RICHARD H. DIMOCK, JOSEPH SHEAVER, and GEORGE WYSKOCIL, Cedar Rapids, Iowa. Filed Feb. 10, 1921. Serial No. 443,968. 4 Claims. (Cl. 81—164.)



1. In an angle-wrench, a fixed jaw mortised to receive the rack-toothed shank of a movable jaw, a movable jaw having a shank at right angles to its working face, and fitting said mortise, a handle inclined at less than ninety degrees to said shank, and provided with a conical, spiral scroll engaging said shank.

1,388,030. PULVERIZED-FUEL-BURNING APPARATUS. SIDNEY G. DOWN and CARLTON D. STEWART, Berkeley, Calif. Filed Oct. 15, 1918. Serial No. 258,142. 7 Claims. (Cl. 236—14.)



1. The combination with a steam boiler and furnace, of mechanism for conveying pulverized fuel to a distribution point, a conduit for supplying fluid under pressure at the distribution point for conveying the fuel to the furnace, a conduit for supplying air to the furnace for combustion of fuel, means for regulating the speed of said mechanism, and the rate of flow of the distributing medium and air for combustion through said conduits, and a controlling device operated according to variations in pressure in the smoke stack for governing the operation of said regulating means.

3. The combination with a steam boiler, of an apparatus for controlling the combustion of fuel for heating said boiler, including an operating member and a controller

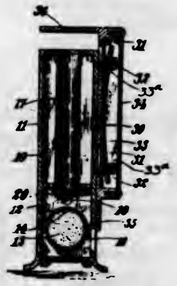
therefor, said controller comprising pistons operatively connected to said member, each piston being responsive to a differential of pressures on its opposite sides for operating said member, a valve for controlling the differential pressure on each piston, and a movable abutment operated according to variations in steam pressure in the boiler for serially operating said valves.

1,388,031. ANCHORING MEANS. HOWARD THOMAS RYTON DRAY, Boulac, Cairo, Egypt. Filed July 29, 1920. Serial No. 399,958. 2 Claims. (Cl. 189—91.)



1. Anchoring means comprising a pile screw adapted to be screwed into the ground, a pile head, means for connecting the pile head to said pile screw, a slab adapted to be arranged about the pile head above the slab, and a cement filler in the cap to bind the pile head and slab together, substantially as described.

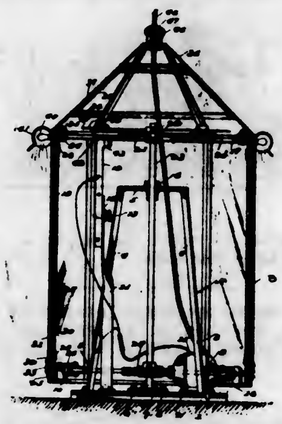
1,388,032. BURNER FOR VULCANIZERS. WILLIAM FROST, London, England, assignor to Harvey Frost & Company, Limited, London, England. Filed Mar. 1, 1920. Serial No. 362,180. 8 Claims. (Cl. 126—351.)



1. In a vulcanizer, the combination with a heating chamber, and heating-means for heating the same, of a slidable controlling member for the heating-means mounted so that it tends to move to diminish the heating effect of same, and retaining-means normally holding said controlling member back against its tendency to move, and arranged to release the same under the automatic control of the heating chamber.

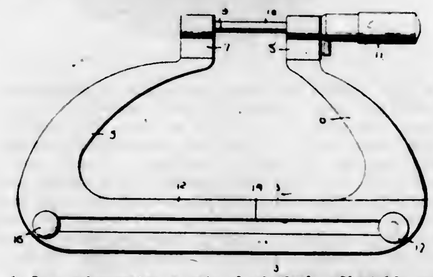
1,388,033. DISPLAY-STAND. NORWOOD GATES, Mineral Wells, Tex. Filed Apr. 29, 1920, Serial No. 377,607. Renewed June 23, 1921. Serial No. 479,923. 3 Claims. (Cl. 40—77.)

1. A display stand comprising a stationary frame, a vertical shaft rotatably mounted in and extending above said frame, an outer frame secured to the upper end of the shaft and inclosing the stationary frame, an annular track secured about the stationary frame near the lower end thereof, horizontally disposed rollers mounted on the interior of the outer frame at the lower end thereof and



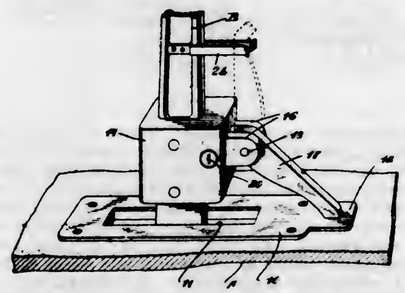
engaging the outer side of said track, means for rotating the shaft, and display panels on the outer frame.

1,388,034. EXTENSION-MICROMETER. GEORGE GILLESPIE, Ann Arbor, Mich. Filed Oct. 7, 1919. Serial No. 328,990. 7 Claims. (Cl. 33—165.)



1. In a micrometer, a pair of relatively adjustable companion jaws, gage pins carried thereby, said jaws being provided with adjustably related shanks, and interlocking means carried by the shanks to lock the latter in adjusted position when assembled.

1,388,035. LEVER-LOCK. G MURL GORDEN, Portland, Oreg., assignor to H. Blanche Adams, Portland, Oreg. Filed Mar. 15, 1920. Serial No. 365,986. 2 Claims. (Cl. 70—128.)



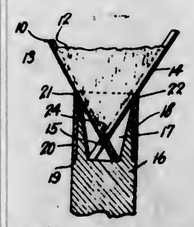
1. A locking device comprising a collar adapted to be securely fastened to a shift lever and having spaced parallel ears at one side, a latching member between and pivoted to the ears and having a notch in its pivoted end, a lock tumbler slidable between the ears and engageable in the notch to make fast the latching member when in latching position, and key actuated locking mechanism for controlling the tumbler.

1,388,036. SALT AND PEPPER SHAKER. SMITH HARRIS, South Shaftsbury, Vt. Filed Feb. 26, 1921. Serial No. 447,915. 1 Claim. (Cl. 65—45.)



A salt and pepper shaker comprising a body having a partition whereby it is divided into compartments and also having swells on the sides of the said partition adjacent to the upper end thereof, in combination with a cover adapted to rest on the body and having at its underside a coupler constructed and arranged to straddle the upper end of the body partition and to be sprung into and out of engagement with the swells thereof; the said coupler being of channel form in cross section and provided with resilient clips, and being connected in diametrical position to the underside of the cover by tongues struck from a portion of the cover.

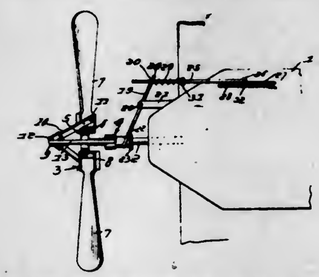
1,388,037. FAN. WILLIAM S. HASSKARL, Philadelphia, Pa. Filed Oct. 16, 1920. Serial No. 417,296. 2 Claims. (Cl. 230—33.)



1. In a device of the class described, a frame having inner end portions projecting in opposite directions, the elements of the frame intersecting, and being interlocked near the aforesaid oppositely projecting portions, a handle provided with a socket into which said projecting portions extend, a ferrule having notches formed in the ends thereof for receiving and retaining the side portions of the frame; and means engaging the frame at the part where the elements thereof intersect, and engaging the aforesaid ferrule, for retaining the frame in position.

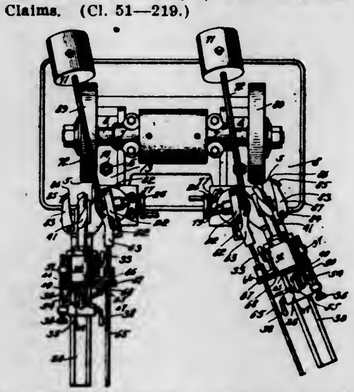
1,388,038. AUTOMATIC PITCH-ADJUSTER FOR PROPELLER-BLADES. CLIVE K. HENNINGTON, Davis, Okla. Filed Nov. 13, 1918. Serial No. 262,868. 1 Claim. (Cl. 170—163.)

In a device of the character described in combination with a rotatable shaft, a propeller having a rigidly mounted hub on the end of said shaft, oppositely positioned studs formed on said hub, offset U-shaped bearing brackets and propeller blades swivelly mounted on said studs, angularly extending arms connected to the side faces of the said blades, said arms having their outer terminals bifurcated providing spaced ears, links pivotally connected to said ears, a longitudinally adjustable sleeve splined to said rotatable shaft, having opposed ears connected to said links and a sleeve adjusting angularly extending lever pivoted medially to a bracket support, a connecting rod yieldingly secured to the end of said sleeve adjusting lever, an adjustable collar carried by said connecting rod, a rack and lever mechanism offset from the



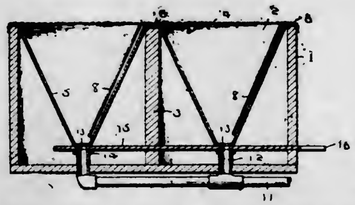
axis of the hub and rotatable shaft, and a compression spring interposed between the said collar and an attaching eye on the upper end of the sleeve adjusting lever for yieldingly maintaining the blades at a predetermined pitch and also maintaining the connecting rod and sleeve adjusting lever in adjusted position relative to said rack and lever mechanism.

1,388,039. DRILL-GRINDER. JULIUS C. HINZ, Detroit, Mich.; William Hinz administrator of said Julius C. Hinz, deceased. Filed July 4, 1919. Serial No. 308,684. 21 Claims. (Cl. 51—219.)



1. In a twist drill grinder, a pivoted non-rotatable support normally sustained by gravity in a horizontal position, and adapted to be manually oscillated in a vertical plane, means for rotatably mounting a drill upon said support, and holding the same against axial displacement, and means for imparting an oscillatory rotation to the drill during the vertical oscillation of said support.

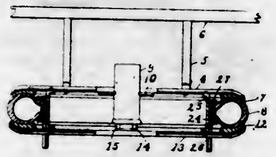
1,388,040. SAND-TRAP. JAMES M. HOOD, Ranger, Tex. Filed Nov. 29, 1919. Serial No. 341,346. 5 Claims. (Cl. 61—2.)



1. A sand trap comprising a casing disposed in the bottom of a ditch, partitions in the casing forming com-

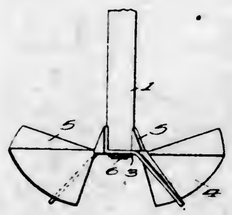
partments, means in the compartments for trapping sand and silt, and means communicating with said first named means for carrying off the sand and silt so trapped.

1,388,041. SPARE-TIRE HOLDER. WILLIAM J. HUNT, St. Joseph, Mo. Filed May 17, 1920. Serial No. 381,909. 6 Claims. (Cl. 224—29.)



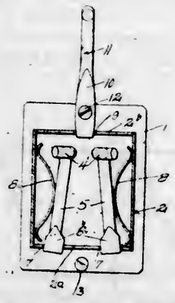
1. A spare tire holder comprising a pair of spaced bars extending diametrically one to either side of a tire, clamp members carried at the opposite ends of the bars and engaging the opposite sides of the tire, a hollow lock casing open at one end carried medially of one of said bars, and a locking mechanism carried medially of the other of said bars and adapted for insertion into said locking casing for locking said bars together.

1,388,042. CHURN-DASHER. JOHN T. HUNTER, Sumrall, Miss. Filed Dec. 18, 1917. Serial No. 207,687. 1 Claim. (Cl. 259—140.)



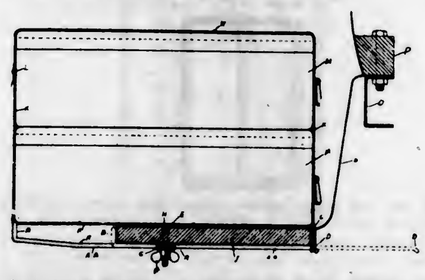
A dasher formed of a circular blank made from sheet metal clipped or cut radially and bent to form outwardly tapered arms truncated at their free ends, said ends lying in the plane of the blank, and a downwardly inclined extension at one side edge of each arm and disposed at an angle of approximately 45° relative to the plane of the arm, and a vertical fin inclined toward the center on the other side edge of the arm.

1,388,043. HOLDING DEVICE. AUGUST JOHNSON, Pittsburgh, Pa. Filed Feb. 5, 1921. Serial No. 442,818. 2 Claims. (Cl. 24—249.)



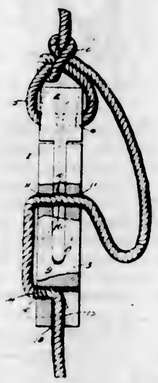
1. In a device of the character described, a casing, rods mounted within the casing and disposed longitudinally of the same, said rods extending from front to back of the casing and being loosely connected at their lower ends to said casing for movement toward and away from each other, gripping members carried by the rods at the upper ends thereof, and leaf springs confined between the rods and the sides of the casing and acting to force said rods toward each other.

1,388,044. AUTO BAGGAGE-CARRIER. ENOS H. JOHNSON, Los Angeles, Calif., assignor of one-half to C. N. Howard, Los Angeles, Calif. Filed May 26, 1920. Serial No. 384,270. 4 Claims. (Cl. 224—29.)



1. A luggage holder attachment of the character described, comprising a slidable member having spaced arms, and a closed upturned outer end, means adapted to be mounted in the running board of an automobile for slidably and adjustably connecting the arms of said member beneath said running board, a guide bail adapted to be engaged in the running board near its inner edge and slidably receiving the spaced arms and preventing removal of the free ends of said member, and an article holding strap trained through the bail and closed end of the slidable member and adapted to embrace an article for the holding of the same upon the running board.

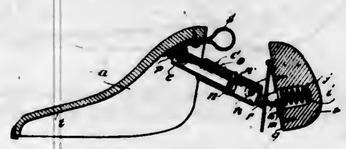
1,388,045. CLAMP. JOSEPH W. JOHNSON, Newburgh, N. Y. Filed Oct. 20, 1920. Serial No. 418,168. 1 Claim. (Cl. 24—136.)



In a clamp of the class described comprising a rectangular, sectional block substantially square in cross section, one of said sections having a transverse aperture formed therein for receiving a flexible supporting element and provided with a central, elongated, flat tongue portion formed integral with the head or body portion of the said section, said tongue being also provided with a transverse aperture at its center, the other of said sections being substantially of the same length as the first named section and provided with a longitudinally extending U-shaped groove of the same length as the flat tongue to receive the same in interlocking relation, and having

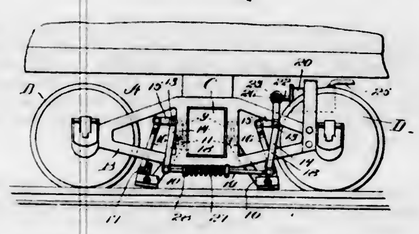
alined apertures centrally of the sides for registration with the aperture in said flat tongue and a right angular groove in the lower body of said second section for receiving the flexible element after it is passed through the alined apertures in the sides and tongue portion of the first named section.

1,388,046. TREEING DEVICE FOR BOOTS AND SHOES. HUGH SNOWIE JONES, Hampstead, London, England. Filed Sept. 8, 1919. Serial No. 322,501. 2 Claims. (Cl. 12—128.1.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In combination with the front and heel members of a boot tree, a link pivotally connected to the front member, a plate hingedly connected at its upper end to the rear member and also pivotally connected to said link, and a spring arranged in a recess in said heel member and exerting tension against said plate to normally hold said plate at an angle with respect to said heel member.

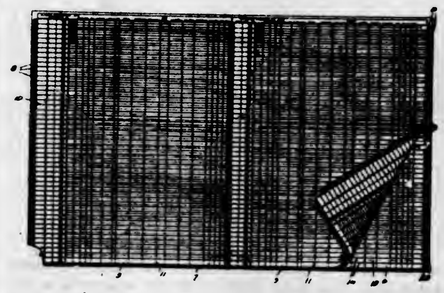
1,388,047. RAIL-ENGAGING BRAKE. RUSSEL JONES, Pontiac, Mich. Filed Feb. 8, 1919. Serial No. 275,774. Renewed May 31, 1921. Serial No. 473,780. 2 Claims. (Cl. 188—41.)



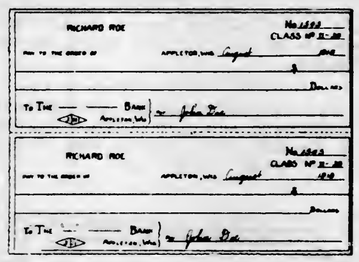
1. A brake mechanism for railway trucks comprising a pair of divergently arranged downwardly extending brake members pivoted upon each side of the truck, rail engaging shoes on the lower ends of said brake members, a pair of angle levers pivoted upon each side of the truck, links pivotally connected with the lower ends of said brake members and with the corresponding arms of said angle levers, a connecting rod connecting the other arms of said angle levers whereby said angle levers will have simultaneous movement, an auxiliary arm formed on one angle lever at each side of the truck, a rod connecting the free ends of said auxiliary arms, means for holding said brake members normally elevated and means for exerting a pull upon said rod.

1,388,048. CAR-RECORD BOOK. FORREST C. KING, Columbia, S. C. Filed June 8, 1920. Serial No. 387,471. 3 Claims. (Cl. 283—36.)

1. A record book comprising main and supplemental entry pages marked to provide divided rows of horizontal spaces, designating characters marked upon the pages of the main entry part of the book, designating characters for the supplemental entry pages having distinguishing characteristics differentiating from the designating characters of the main entry part, and means at the top of each main entry page for designating a page in the supplemental entry part to permit entries to be made in the latter when the pages of the main entry pages are filled.



1,388,049. SAFETY-CHECK. JOSEPH KOFFEND, Sr., Appleton, Wis. Filed Jan. 28, 1919. Serial No. 273,511. 1 Claim. (Cl. 283—11.)



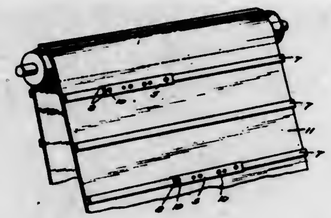
A negotiable paper bearing a number indicative of the class of the maker and having a guard number, part of which is associated with the class number and part of which is differently located on the face of the paper, and a time character in conjunctive relation with the part of the guard number remotely situated from the class number.

1,388,050. WINDOW-VENTILATOR. MICHAEL J. LEAHY, Philadelphia, Pa. Filed Apr. 10, 1920. Serial No. 372,865. 2 Claims. (Cl. 98—31.)



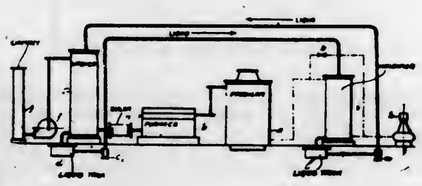
2. A window ventilator comprising two sections, one section terminating to provide channels to slidably receive the other section, an end wall on each section and arranged inwardly of the outer end thereof, each end wall having an elongated slot, the portion of the section projecting beyond the end wall being formed to provide tongue and grooves for interfitting engagement with the tongue and grooves of the window casing, and means for holding the ventilator in position upon the window.

1,388,051. SLAT-REPAIRING DEVICE. JOHN B. LEGGE, Morris, Minn. Filed June 4, 1920. Serial No. 386,495. 1 Claim. (Cl. 287—65.)



As an article of manufacture, a repair device for broken wooden slats of endless conveyer aprons comprising a substantially elongated body of sheet metal formed to provide oppositely depending side flanges adapted to embrace the opposite sides of the broken pieces of the slat, the flanges being of less width than the thickness of the slats, whereby to provide a space between the edges of the flanges and the apron of the conveyer and thereby prevent contact of the edges of the flanges with the apron during the travel of the latter, the connected portion of the body being provided with sets of spaced apertures disposed on the longitudinal center thereof, one set to each side of the transverse center of the same, whereby the fastening devices used may be properly inserted through the body with respect to the line of the break between the parts of the broken slat.

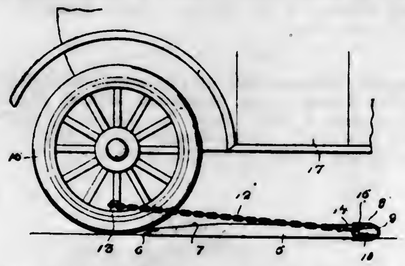
1,388,052. GENERATION AND UTILIZATION OF PRODUCER-GAS. ARTHUR HENRY LYMN, Westminster, London, England. Filed Aug. 18, 1920. Serial No. 404,417. 9 Claims. (Cl. 48—76.)



1. The method of generating and utilizing producer gas which consists in passing the hot products of combustion obtained from furnace plants fired with producer gas into direct intimate contact with a liquid so as to heat said liquid at substantially atmospheric pressure, circulating said heated liquid in contact with a quantity of air so as to heat said air and saturate it with vapor, passing said heated and saturated air into the producer, utilizing the gases generated in said producer for heating said furnace plant, and again passing the liquid used for preheating and saturating the air into contact with the said hot products of combustion of said furnace fired with producer gas in a continuous cycle.

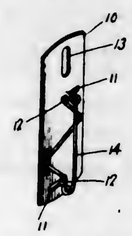
1,388,053. AUTOMOBILE-SKID. ONON G. MOORE, Nashville, Tenn. Filed Aug. 9, 1918. Serial No. 249,204. 1 Claim. (Cl. 180—7.)

An automobile skid for assisting in extracting the traction wheel of the automobile from a hole or rut, comprising a substantially rectangular body which is beveled from the outer face thereof toward its inner end, an angle reinforcing plate on said inner end, a transversely arranged shaft journaled in bearings on the outer end of the skid and said shaft having its ends cranked in the same direction, rings carried by the cranked ends of the shaft, a chain secured to one of said ends, a slidable saddle on the chain to engage with the spoke of the automobile



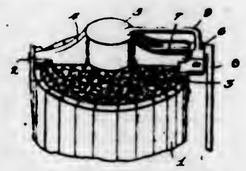
wheel to be extracted, and a hook on the free end of the chain for engaging with the ring on the second crank of the shaft.

1,388,054. DRAPERY-HANGER. ROBERT P. MORTON, Jr., Fairview, N. J. Filed Oct. 23, 1920. Serial No. 418,992. 1 Claim. (Cl. 24—1.)



A crape hanger comprising an elongated member having a longitudinally disposed slot arranged adjacent one end of the member, bendable tongues provided on said member and formed to provide loops arranged in aline with said slot, and safety pin having a body portion thereof embraced by said loops for holding the pin mounted on one side of said member.

1,388,055. ICE-CREAM FREEZER. WILLIAM M. NEYLAND, Goliad, Tex. Filed Mar. 2, 1920. Serial No. 362,885. 3 Claims. (Cl. 217—126.)

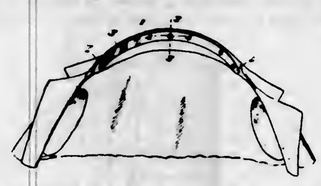


1. A device of the class described including a body member, a cross bar carried thereby, means for fastening the cross bar to the body member, a crank handle arranged adjacent the cross bar, and an auxiliary handle carried by the cross bar in close proximity to the crank handle.

1,388,056. COLLAR-PROTECTOR. WILLIAM HAMILTON NORTH, Cambridge, Md. Filed July 12, 1918. Serial No. 244,595. 1 Claim. (Cl. 2—62.)

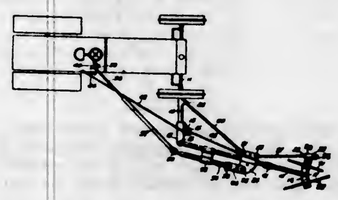
In combination with the collar of a coat, of a combined stiffening member for said coat collar and a protector member for a linen collar that is normally contacted by the coat collar, said protector comprising a strip of celluloid having both its upper and lower edges from its center

parallel for a determined distance and having its said edges from thence gradually rounded downwardly to the ends of the strip and the said ends being of a less width



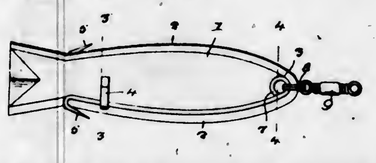
than the remainder of the said strip, and bendable prongs carried by the strip for removably securing the strip to a coat collar.

1,388,057. TRACTOR-GUIDE. WILLIAM OLDENDORF, Rushford, Minn. Filed Mar. 17, 1921. Serial No. 453,027. 2 Claims. (Cl. 97—81.)



1. A device of the class described, comprising a support adapted to be coupled to a vehicle, a beam member swinging at one end upon said support, an axle device swinging upon the free end of the beam and having reversely arranged angular journals, furrow wheels of different sizes mounted on said journals, a threaded bracket projecting from said beam, a screw engaging said bracket, a sleeve slidable on said beam, and coupled to said screw, a pull rod pivoted respectively to said sleeve and to one of said axles, a pull rod pivoted respectively to said sleeve and to said support, and means operative from the vehicle for rotating said screw to adjust the beam to cause the furrow wheels to operate nearer to or farther from the line of travel of the vehicle.

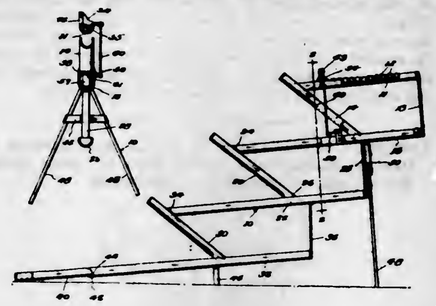
1,388,058. AUTOMATIC FISHHOOK. PAUL PETERSON, JUNEAU, Alaska. Filed Nov. 20, 1920. Serial No. 425,425. 2 Claims. (Cl. 43—35.)



1. An automatic fish hook comprising a body having an aperture adjacent to its forward end and also having an aperture adjacent to its rear portion, a retainer extending through the latter aperture of the body and having reversely arranged hooks at its ends, and resilient hook members adapted for removable arrangement in the hooks of the retainer and connected together and with the body by means adapted to rest in the forward aperture of the body.

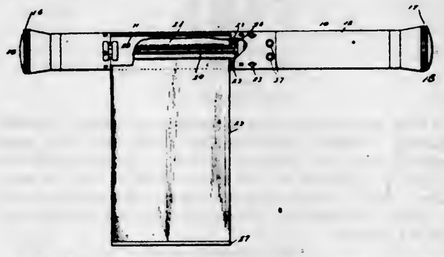
1,388,059. TOY. WALTER A. RICHMAN, Egg Harbor, N. J. Filed June 1, 1920. Serial No. 385,691. 8 Claims. (Cl. 46—37.)

1. A device of the class described comprising a plurality of inclined runways having their upper ends closed and their lower ends open, the lower portions of certain of said runways being bifurcated and secured to opposite sides of certain of the other runways at points spaced



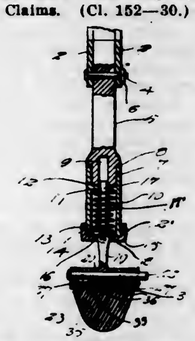
from the upper ends of the same, and means for controlling the passage of spherical objects through said runways.

1,388,060. SIGNALING DEVICE. ANTHONY RICIGLIANO, Buffalo, N. Y. Filed May 4, 1920. Serial No. 378,903. 1 Claim. (Cl. 116—132.)



A signaling device having a tubular casing provided with a grip portion and a flag housing portion fitted with longitudinal exit slots, spring actuated spindles mounted in said housing portion and having reeled thereon flags of different signaling significance for extension through the said slots in the casing, the housing portion of the casing being provided with a movable closure for giving access to the interior thereof, and locking means consisting of sliding blocks provided with sockets for the reception of cross sectionally irregular terminals of the spindles for securing the latter when the flags are in their extended position, said blocks being provided exteriorly of the casing with operating buttons.

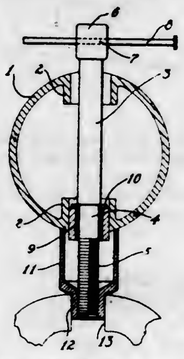
1,388,061. AUTOMOBILE-WHEEL. CONRAD RITZEL, Dayton, Ohio, assignor of one-half to Julian J. Tangeman, Dayton, Ohio. Filed Aug. 4, 1917. Serial No. 184,499. 2 Claims. (Cl. 152—30.)



2. In a wheel, a spoke, a cylinder having a partition therein intermediate its ends, said spoke extending into

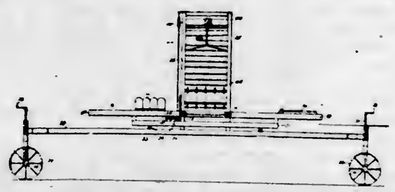
one end of the cylinder abutting said partition, said partition and spoke having alining openings, a rod disposed on the opposite side of the partition to the spoke and slidable in said openings, a head on the rod, a cap supporting said head mounted on the adjacent end of the cylinder, an expansive spring in the cylinder abutting the partition and the cap, and means extending movably through the cap and from the head adapted to support a tire.

1,388,062. TOOL. LOYD A. RULEY and ORVILLE F. OSBURN, Helena, Okla. Filed June 26, 1920. Serial No. 391,961. 2 Claims. (Cl. 29—88.2.)



1. A tool of the class described comprising a spindle having a reduced part forming a shoulder with screw threads upon the reduced portion, a flanged ferrule removably arranged on the spindle and having its upper end engaging the shoulder and a supporting member having a screw threaded bore for receiving the screw threaded end of the spindle.

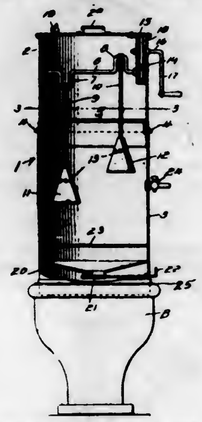
1,388,063. UNLOADING AND ELEVATING APPARATUS. JOHN J. RUNCK, Republican City, Nebr. Filed Dec. 6, 1918. Serial No. 265,550. 9 Claims. (Cl. 193—14.)



1. An apparatus of the class described comprising a truck provided with longitudinal side bars having tracks arranged thereon, a carrier mounted upon said tracks and movable back and forth relative thereto, an elevator supported by the carrier and provided with endless conveyers, feed mechanism on the carrier leading to the foot of the elevator, delivery mechanism for discharging material upon said feed mechanism, a motor supported by the carrier, and operating connections between said motor, and the elevator conveyer, the carrier feed mechanism and the delivery mechanism.

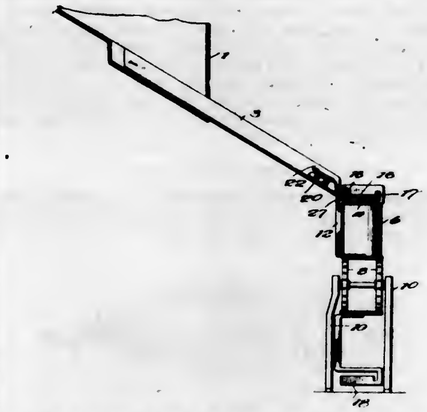
1,388,064. WASHING-MACHINE. CARL SCHIRMER, Hibbing, Minn. Filed Nov. 23, 1920. Serial No. 425,989. 1 Claim. (Cl. 68—19.)

A washing machine composed of two telescoping cylindrical sections one of which is open at both ends and the other open at one end and closed at the other, means for limiting the telescopic engagement of said sections, washing elements mounted to reciprocate in one of said sections, an annular flange on the outer face of the lower end of the open ended section spaced from the end of said section and adapted to rest on the closet seat to form a support for the machine, a bottom in said section spaced inwardly from its lower end and having a central opening,



said bottom inclining downwardly toward said opening, a slide valve for closing the opening and having a handle extending through one side wall of the cylinder, and a perforated false bottom mounted above the first named bottom.

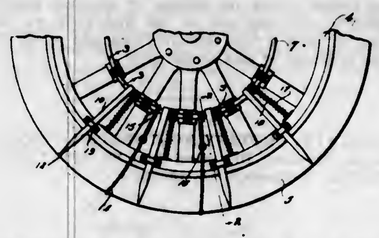
1,388,065. FRUIT-CANNER. HENRY J. SCHMITZ, Berkeley, Calif. Filed May 25, 1920. Serial No. 384,196. 6 Claims. (Cl. 226—2.)



1. In a fruit canner, a holder for the fruit, chutes leading from the holder and inclining downwardly, platforms disposed to receive the fruit from the lower ends of said chutes, flanges on the platforms opposite the chutes, a conveyer passing beneath the platforms and adapted to carry containers therebeneath, and sweeps carried by said conveyer and being slotted to fit about the platforms and said flanges, substantially as described.

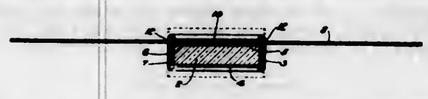
1,388,066. ANTISKID ATTACHMENT FOR VEHICLES. OTTO J. SCHOENBOAN, St. Joseph, Mo. Filed Oct. 22, 1920. Serial No. 418,662. 1 Claim. (Cl. 301—51.)

An anti-skid device for vehicle wheel tires including rings consisting of jointed rotative segments carried by the wheel, and teeth carried by said segments and adapted to engage the road of travel, when said wheels move laterally, thereby rotating said segments, and means operable by movement of said segments to return the teeth to



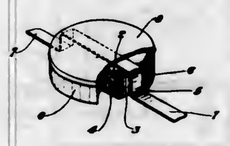
their normal positions when lateral thrust on the tires is discontinued.

1,388,067. METHOD OF MAKING RAILWAY SIGNAL-TORPEDOES. EDWARD A. SCHOOLEY, Pittsburgh, Pa. Original application filed Aug. 31, 1916, Serial No. 117,819. Patent No. 1,359,924, dated Nov. 23, 1920. Divided and this application filed Oct. 25, 1920. Serial No. 419,503. 3 Claims. (Cl. 246—487.)



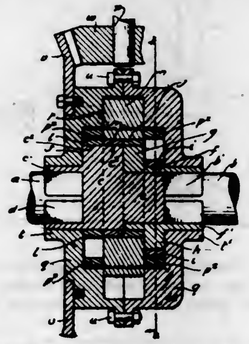
1. The method of making non-flying railway torpedoes which consists in assembling the parts of the torpedoes, enveloping the explosive charge of the torpedo within casing members and then bending the outer edge of the outer one of said members inwardly and downwardly into tight holding engagement with another part of said torpedo to thereby fasten the parts in assembled relation.

1,388,068. RAILWAY SIGNAL-TORPEDO. EDWARD A. SCHOOLEY, Pittsburgh, and WILLIAM C. WILSON, Jr., Callery, Pa., assignors to Columbia Railway Signal Company, Pittsburgh, Pa., a Corporation of West Virginia. Filed May 24, 1921. Serial No. 472,249. 4 Claims. (Cl. 246—487.)



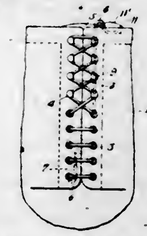
1. A railway signal torpedo comprising a disk-shaped explosive containing casing, an outer cup-shaped shell telescoped over said explosive containing casing, said cup-shaped shell being of greater depth than said casing, and the side wall thereof forming a projecting rim above the flat end face of said explosive containing casing, a rail engaging member laid along the exposed flat end face of said explosive containing casing and passed between the side walls of said explosive containing casing and said outer shell, and having its free ends extending through apertures in the edge of said shell formed at the juncture of the closed end face and side wall thereof, and a binding closure of plastic material filling the space between the exposed face of said explosive containing casing and the projecting rim formed by the side walls of said shell, said plastic material covering said rail engaging member and securing the several parts of said torpedo together.

1,388,069. GEARLESS DIFFERENTIAL POWER-TRANSMISSION. FERDINAND W. SEECK, Lebanon, Oreg. Filed Aug. 11, 1919. Serial No. 316,893. 7 Claims. (Cl. 74—7.)



1. A differential transmission mechanism comprising a driven case, a divided axle, whose sections are journaled in the case, a crank-element on each axle-section, transmission members reciprocable in the case on lines radial to the axis of rotation of the case and perpendicular to each other, and devices mounted on the eccentric portions of said crank-elements and reciprocating in said transmission-members.

1,388,070. SHOE. MIKE SEIWALD, Eudora, Kans. Filed Aug. 2, 1919. Serial No. 314,886. 1 Claim. (Cl. 24—117.)

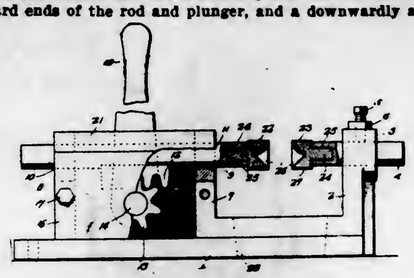


A shoe having eyelets and hooks arranged adjacent the edges of the slit in the vamp and a row of holes located on the inner face of the upper under one row of hooks, an upper pocket formed between the lining and the upper edge of the vamp adjacent the edge which contains the row of holes, a lower pocket formed adjacent the other edge at the lower part of the vamp near the bottom eyelet, said pocket being formed between the lining and vamp, the lining having a hole therein communicating with said lower pocket and a single lace passing through said hole and having its end located in the lower pocket, said lace being passed through the eyelets and the row of holes with its other end located in the upper pocket, the lace having sufficient slack for engaging the hooks.

1,388,071. NUTCRACKER. SIDNEY G. SIMONS, Columbus, Ga. Filed Sept. 20, 1920. Serial No. 411,365. 1 Claim. (Cl. 146—3.)

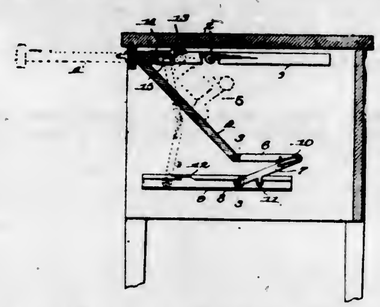
In a nut cracker of the class described, a base, an integral end support, an adjustable fixed rod carried thereby, spaced vertical supports and side plates also carried by said base, a longitudinally movable plunger carried by said spaced supports in direct alinement with said rod, teeth formed integral with said plunger and intermediate thereof, a transverse shaft supported by the side plates, a toothed gear rotatable with said shaft meshing with the teeth of said plunger, a manually operable lever extending

above and medially of the spaced vertical supports for actuating said shaft and plunger, a curved plate inclosing said gearing, removable, interchangeable dies on the forward ends of the rod and plunger, and a downwardly and



outwardly extending, flared chute formed in the base between the end support and the plunger support for directing the kernel and shells to one side when the nut is opened.

1,388,072. TYPEWRITER CABINET-DESK. METHOLD F. SITTA, Chicago, Ill. Filed Apr. 6, 1920. Serial No. 371,607. 5 Claims. Cl. 45—52.)



1. In a device of the class described, the combination of a typewriter supporting tablet, an upper track pivotally connected to said tablet for supporting said tablet, a lower track, and supporting means for said tablet which supporting means is supported by said lower track.

1,388,073. CIGARETTE-CASE. NORMAN G. STEWART, Flint, Mich. Filed Aug. 17, 1920. Serial No. 404,080. 1 Claim. (Cl. 224—5.)



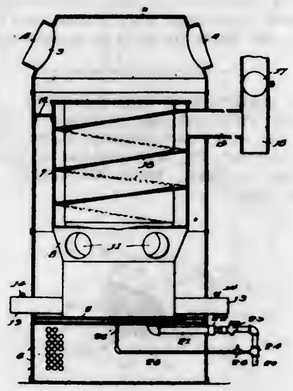
A case of the class described formed of two strips of material, one strip having its ends secured together to form a pocket open at both ends and the other strip having its side edges secured to the front of the first strip to form a second pocket and said second strip being looped across the bottom of the first pocket and secured to the rear side of the first strip at the top thereof to form a belt receiving loop and a flap formed by the extension of said second strip.

1,388,074. ROTARY TOOTHBRUSH. CHARLES H. STONE, Freeport, Ill. Filed June 29, 1920. Serial No. 392,703. 2 Claims. (Cl. 15—37.)



1. A tooth brush comprising a handle, a shank rotatably mounted longitudinally in said handle, a brush head carried by the shank at one end of the handle, a resilient cup on the shank between the handle and brush head, and a turning grip carried at the other end of the shank to be disposed at the opposite end of the handle.

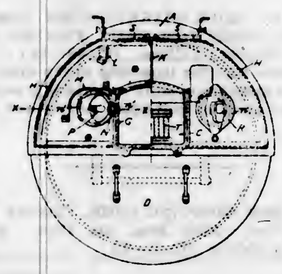
1,388,075. FURNACE. ARTHUR D. SUTTON, Pittsburgh, Pa. Filed July 20, 1917. Serial No. 181,759. 3 Claims. (Cl. 126—116.)



1. In a furnace of the class described, an outer casing having cold air inlet openings at their lower part and hot air flues leading from the upper part, a heating drum within the outer casing and spaced from the sides and bottom thereof and open at the top and bottom and formed with outer and inner walls in spaced relation and with air passages providing communication between the casing and the interior of the drum, the outer wall of the drum being directed inwardly at its lower end to form an annular flange, a tubular member extending from the bottom flange of the drum, a burner supported on the tubular member and comprising an outer perforated wall and an inner imperforate wall, air inlet elements communicating with the drum at its lower part, and an outlet element leading from the upper part of the drum.

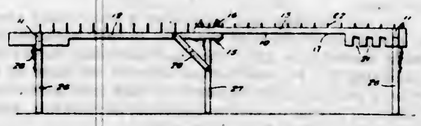
1,388,076. [WITHDRAWN.]

1,388,077. FURNACE-FRONT. HERBERT ALEXANDER THOMPSON, North Shields, England, assignor of two-thirds to Cornelis Zulver, London, England, and Launcelot Eustace Smith, South Shields, England. Filed Aug. 11, 1919. Serial No. 316,623. 1 Claim. (Cl. 110—22.)



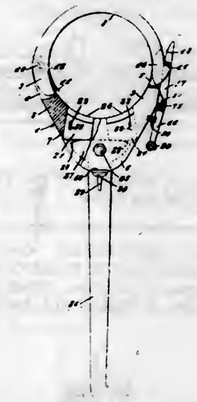
In combination with a furnace having a front plate, a baffle extending inwardly of the front plate, an extension outwardly of the front plate, a coal door casing secured to said extension, a substantially semi-circular casing above and extending partially about said extension, guide and radiating vanes in the semi-circular casing extending from the extension in opposite directions and having their outer ends turned downwardly, air tubes projecting through the semi-circular casing and baffle being closed at their outer ends and open at their inner ends and provided with openings in their sides communicating with the interior of the semi-circular casing, the tubes being located within the space partially circumscribed by the vanes and extension, oil burners passing through the tubes and damper controlled air inlets in the upper portion of the casing.

1,388,078. CURTAIN-STRETCHER. CAROLINE E. TRACY, Detroit, Mich. Filed Nov. 5, 1920. Serial No. 422,032. 1 Claim. (Cl. 45—24.)



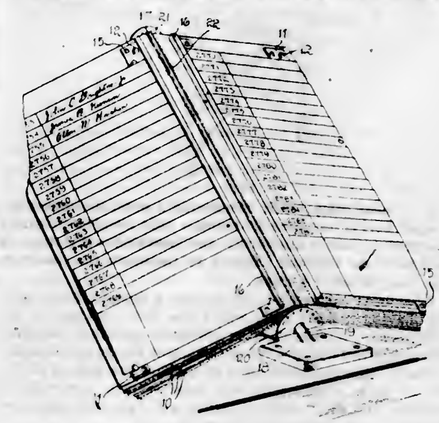
A curtain stretcher comprising a rectangular frame including end bars, each formed in its upper edge at one end with a notch and at its other end with a plurality of notches, said frame including pairs of slidably connected side bars having their inner portions relatively thin and having their outer portions downwardly thickened, the thickened portion at one end of the slidably connected side bars being formed with an upwardly extending notch engageable within a selected one of said second named notches, the thickened portion at the other end of the slidably connected pair of bars being formed with a series of upwardly extending notches, a selected one of which may be engaged within said first named notch, legs hingedly connected with the end of the frame and legs pivotally connected with the intermediate portions of the side bars and a series of upwardly extending pins on the side bars and end bars.

1,388,079. PIPE-WRENCH. GEORGE BARNETTE TREW, Shreveport, La., assignor of one-half to S. A. Guilberson, Jr., Los Angeles, Calif. Filed Aug. 28, 1920. Serial No. 406,546. 4 Claims. (Cl. 81—66.)



1. A wrench comprising a head having arms; a grip extended between the arms; jaws slidable in the head; and a handle fulcrumed on the head and having cams engaging the jaws.

1,388,080. CARD-INDEX. JOHN WELBON, Utica, N. Y. Filed July 10, 1918, Serial No. 244,291. Renewed May 16, 1921. Serial No. 470,203. 6 Claims. (Cl. 40—124.)

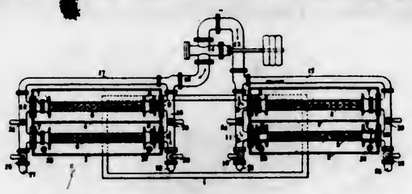


1. A card index unit comprising a strip of material having a plurality of tongues stamped to project upon one side of the strip and penetrating means stamped and projecting from the opposite side of said strip.

1,388,081. DYEING AND BLEACHING APPARATUS. ALOYSE WIOLAND, Hericourt, France. Filed June 21, 1920. Serial No. 390,616. 2 Claims. (Cl. 8—18.)

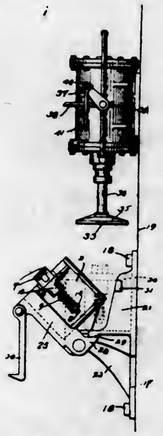
1. An apparatus for dyeing and bleaching vegetable and animal fibers on bobbins or beam rollers, comprising: a reservoir for the dyeing or bleaching bath,—two vats arranged above the said reservoir,—perforated tubes mounted in the said vats and receiving the materials to be dyed or bleached,—a system of piping connecting the vats together and with the said reservoir,—a rotary pump with a reversing gear interposed in the system of piping, between the two vats containing the products and permitting to obtain the circulation of the dyeing or bleaching

ith from the reservoir to either of the said vats, or from one vat to the other, means for washing of the textile



materials, means for oxidation of the fixed colors and means for drawing off the baths.

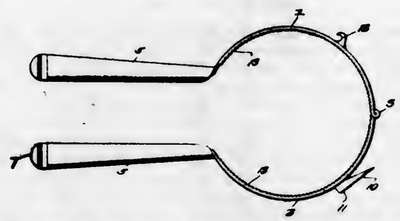
1,388,082. MEAT-COMPRESSER. OSCAR M. WOLFF, Chicago, Ill., assignor to B. B. Hanak Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 15, 1919. Serial No. 345,108. 5 Claims. (Cl. 100—57.)



1. A meat compresser, comprising a bracket support for a mold box or receptacle having a side member pivotally mounted to swing outwardly and provided with stops to hold it in an inclined position to facilitate the insertion and removal of the mold.

3. A meat compresser, comprising a support for a mold box, having a shelf upon which the box rests during the compression, a side member pivotally mounted to swing outwardly to facilitate the insertion of the box, said member being provided with lugs to support the bottom of the box as it is swung with the side member into vertical position, the shelf being provided with slots or apertures to receive said lugs.

1,388,083. CULINARY IMPLEMENT. AUTHOR DOUGLAS WORKMAN, Knoxville, Tenn. Filed Feb. 1, 1921. Serial No. 441,611. 1 Claim. (Cl. 81—3.1.)

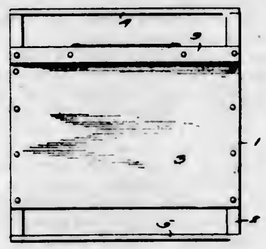


A device of the class described comprising segmental bandlike gripping jaws pivotally connected at one end and merging at their other ends into integral rod-like arms extending at an obtuse angle therefrom, the free ends of said arms being threaded and provided with nuts, wooden handles through which said arms extend and which are secured between said nuts and the free ends of said jaws, the inner faces of said jaws being provided with biting elements.

1,388,084. MILK-SHAKE-POWDER COMPOUND. ALVERDO S. ALBERT, Ione, Wash. Filed Oct. 14, 1919. Serial No. 330,682. 1 Claim. (Cl. 99—11.)

A milk shake filler for imparting to the drink a thick, rich, appetite satisfying quality comprising a powder composed of two parts of pulverized gelatin and one part gum acacia.

1,388,085. BEE-SHIPPING CAGE. EUGENE B. AULT, Calallen, Tex. Filed Sept. 30, 1920. Serial No. 413,706. 3 Claims. (Cl. 6—9.)



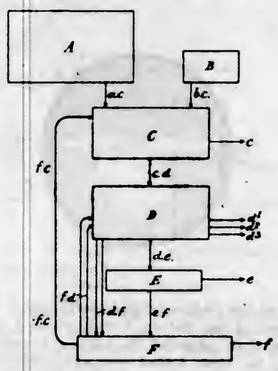
1. A bee shipping cage comprising a crate closed except at the top and bottom of the sides thereof, a screen wire bee retaining cage mounted in said crate, and a feeder in said cage.

2. A bee shipping cage comprising a crate closed except at the top and bottom of the sides thereof, a foraminous lining mounted in said crate and extending across and connecting the top and bottom edges of the sides of the crate, a feed container supported in said crate within said lining and having its mouth depending downwardly, and a foraminous closure for said mouth.

3. A bee shipping cage comprising a crate closed except at the top and bottom of the sides thereof, a foraminous lining mounted in said crate and extending across and connecting the top and bottom edges of the sides of the crate, a feed container supported in said crate within said lining and having its mouth depending downwardly, and a foraminous closure for said mouth, and a screw cap for holding said closure in operative position.

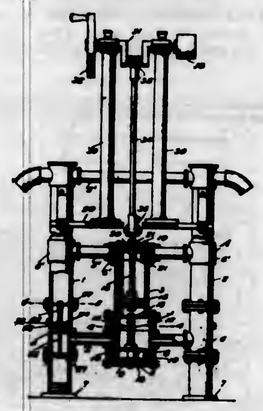
1,388,086. PROCESS FOR RECOVERING VALUES FROM ORES. EDGAR ARTHUR ASHCROFT, London, England. Filed Sept. 15, 1920. Serial No. 410,537. 10 Claims. (Cl. 204—19.)

1. The process of treating metal bearing materials, which comprises the steps of converting a metal constituent of the material into a chlorid, and combining the latter with an alloy of heavy and light metals to effect



the precipitation of the metal from the chlorid, substantially as described.

1,388,087. PUMP. CHARLES H. BACH, Laconia, N. H. Filed Jan. 9, 1920. Serial No. 350,256. 2 Claims. (Cl. 103—75.)



1. An apparatus of the class described comprising a frame formed of tubing and including a suction chamber having an inlet opening in its bottom, a spring pressed valve controlling said opening, a cylinder having its lower end in communication with the suction chamber, a piston in said cylinder, a piston rod connected with the piston and passing through the upper end of the cylinder, vertically arranged discharge pipes arranged parallel with the cylinder and suction chamber, transverse tubing connecting the discharge pipes with the cylinder and chamber and the tubing connected with the chamber being in communication with said chamber and said discharge pipes, spring controlled valves in said discharge pipes, a platform supported on the frame, uprights supported on the platform, a crank shaft carried by said uprights and a pitman connecting the crank shaft with the piston rod.

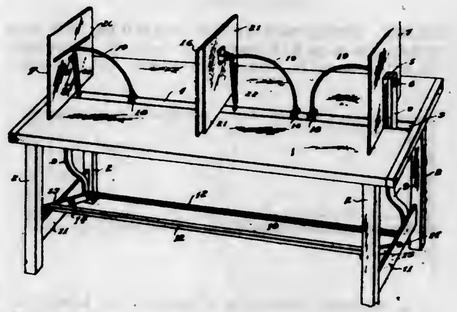
1,388,088. ELECTRIC THIRD RAIL. ARNE KRISTIAN HILBERG BJORGE, St. Paul, Minn. Filed Dec. 17, 1919. Serial No. 345,668. 3 Claims. (Cl. 191—20.)

2. A device of the character described, comprising a guard housing formed of an insulated material, a conductor strip within said guard housing and co-extensive therewith, and having portions of the same exposed in recesses spaced along one face of said guard housing, flexible rail sections disposed in end to end relation one insulated from the other and extending along the recessed face of said guard housing, and contact strips carried by said rail sections and projecting into said re-



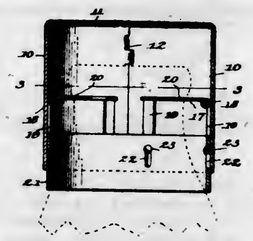
cesses, and adapted to be forced into contact with the complemental exposed face portion of said conductor strip, when said rail sections are flexed by the contact shoe of a passing car, whereby one rail section is energized at a time.

1,388,089. BOX-HOLDER. RUBEN H. BOYCE, Glasco, Kans. Filed Sept. 9, 1920. Serial No. 409,203. 3 Claims. (Cl. 144—295.)



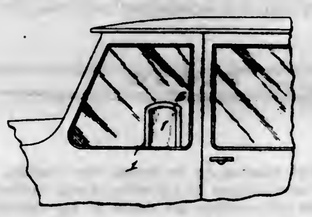
1. The combination of a carrier bar, means for supporting the same for pivotal and vertical reciprocatory movement, fixed clamping members on said bar and extending laterally from the opposite sides of the same, clamping arms pivotally mounted upon the bar and extending longitudinally thereof with their free ends spaced from the bar to coact with said fixed clamping members, and yieldable means carried by the bar for drawing said movable clamping members to the fixed clamping members.

1,388,090. MILK-BOTTLE LOCK AND RETAINER. GEORGE F. BRASSLER, Whitestone, N. Y. Filed Nov. 14, 1919. Serial No. 337,935. 2 Claims. (Cl. 232—41.)



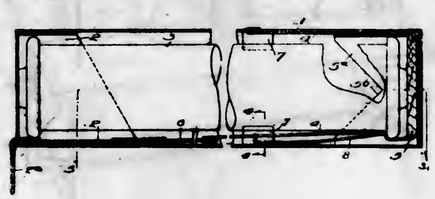
1. A bottle holder of the class described comprising a casing, pivoted devices arranged therein and adapted to co-act with each other to receive the neck of a bottle and support the same, and vertically movable means adapted to co-act respectively with the body of a bottle and the supporting devices to close the space between the bottom of the casing and body of the bottle.

1,388,091. AUTOMOBILE-WINDOW ATTACHMENT. THOMAS M. BRENAHAN, Washington, D. C. Filed Feb. 27, 1920. Serial No. 361,850. 1 Claim. (Cl. 189—76.)



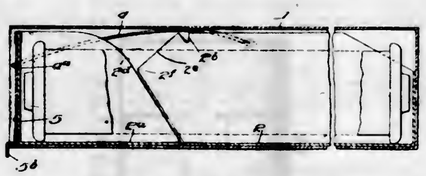
In combination with a transparent panel having an opening therein, a frame clamped to the edges of the panel around said opening, said frame consisting of two parts, each engaging a face of the panel and one part having a portion interlocking with the other part and a door associated with the frame for closing said opening.

1,388,092. CONTAINER FOR MUSIC-ROLLS AND THE LIKE. CHARLES S. BURTON, Oak Park, Ill. Filed Sept. 15, 1919. Serial No. 323,827. 9 Claims. (Cl. 206—59.)



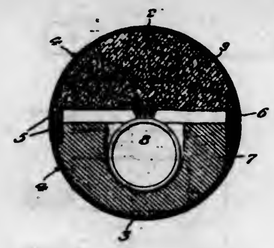
1. A container comprising a tubular box having one open end, and a strap having one end secured to the body of the box at a distance forward from the opposite end, and adapted to extend thence within the box back toward said opposite end for encompassing the dischargeable contents of the box, and thence forward to the open end; and a catch for engaging the box contents, the strap being engaged with the catch for disengaging it by the initial withdrawing and content-expelling movement.

1,388,093. CONTAINER FOR MUSIC-ROLLS AND THE LIKE. CHARLES S. BURTON, Oak Park, Ill. Filed Sept. 15, 1919. Serial No. 323,828. 9 Claims. (Cl. 206—52.)



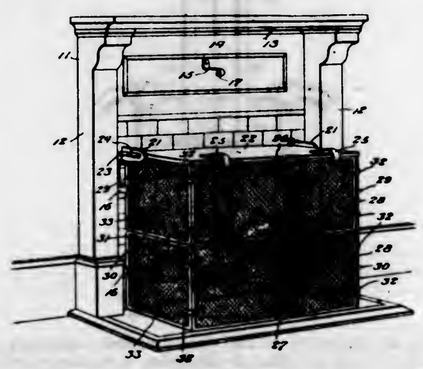
1. A container consisting of an outer tubular box member having an open end; an interior open-top box member adapted to telescope longitudinally in the tubular box member, said open-top member having an outer end portion severed from the remainder and hinged thereto at one side for folding away from the remainder to leave said remainder open ended; a latch pivoted to the tubular box member for swinging to engage the severed and hinged end portion in the same planes in which said severed end portion swings for opening; and means on the severed and hinged portion for partly withdrawing the interior box member from the exterior member.

1,388,094. JEWELRY-CASE. JOHN BUTTIGIEG, Rockford, Ill. Filed Nov. 29, 1919. Serial No. 341,361. 1 Claim. (Cl. 211—28.)



A device of the class described comprising a case of egg-shape formed of two halves, a strip secured to the inner wall of each half adjacent its edge, a covering for each half having its edges folded over said strip and secured to the inner wall, a strip connected with one half and having a part projecting therefrom for engaging the other half, said strip engaging the folded over portion of the covering of each half and a pad in each half, one pad having a recess therein.

1,388,095. FIRE-SCREEN. CHARLES A. CANNON and HARVEY E. SCOTT, McNab, Ark. Filed Aug. 23, 1918. Serial No. 251,170. 1 Claim. (Cl. 126—202.)

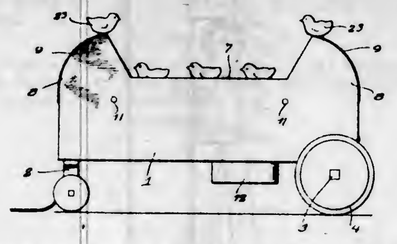


In combination with a fireplace and a mantel, a bracket located on each side of the fireplace, a sectional folding screen including a swinging top having slidable hinge connections with said brackets, spring clips on the sides of the fireplace engaging adjacent portions of said screen, and a hook above the fireplace adapted to engage and hold the folded screen in elevated position.

1,388,096. FIGURE WHEELED TOY. ARTHUR C. CAPONIC, Havre de Grace, Md. Filed Aug. 17, 1920. Serial No. 404,089. 1 Claim. (Cl. 46—45.)

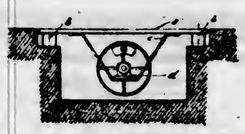
A toy comprising a body having an opening in its upper part, spaced rollers journaled in the body, an endless belt passing over said rollers, figures carried by the belt and arranged to appear through said opening when the belt is being moved by the rotation of the rollers, hangers at the rear or the body having oblong openings therein, a roller axle engaging said openings and adapted to move to the rear ends of said openings when the toy is moved forwardly, a belt connecting said roller axle with one of the before mentioned rollers and adapted to be tensioned by

the rearward movement of the roller axle so that it will transmit the movement of said axle to the roller, wheels



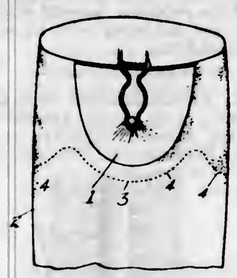
connected with the ends of said roller axle and front wheels for the body.

1,388,097. APPARATUS FOR PRODUCING OSCILLATORY MOVEMENTS. CARLO CAPSONI, Alessandria, Italy. Filed June 19, 1920. Serial No. 390,235. 2 Claims. (Cl. 259—75.)



1. In an apparatus for shaking material, the combination of a platform, rigid throughout, adapted to carry the material; resilient members on which said platform immediately rests and solely by which it is supported, said resilient members adapted to yield in every direction; and platform-vibrating means rigidly secured to said platform.

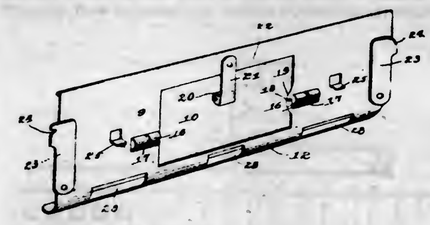
1,388,098. STOCKING. GEORGE JOSEPH CONNOR, Toronto, Ontario, Canada. Filed Aug. 23, 1919. Serial No. 319,508. 1 Claim. (Cl. 2—23.)



In a stocking, a continuous scalloped line of stitching extending entirely around the stocking leg a general direction transverse to the length of the stocking at a point a small distance from the upper edge of the stocking and adapted to prevent runs, tears and ladders from passing downwardly into the body of the stocking and to permit of the free lateral expansion of the stocking fabric to prevent rigid binding of said fabric at said line of stitching without distorting the original contour of the said stocking.

1,388,099. ADDRESSING ATTACHMENT FOR TYPEWRITERS. WILLIAM G. CROCKER, Lisbon, N. D. Filed Jan. 25, 1921. Serial No. 439,808. 4 Claims. (Cl. 197—135.)

1. A card-holding attachment adapted to be applied to a front-strike typewriting machine in front of the platen thereof, comprising a plate having an opening exposing the card to be written upon, through which the type may operate, the lower end of the plate being curved to conform to the curvature of the platen and lie close to the face



thereof when the attachment is in use, and the upper portion of the plate being fitted with rollers to direct the card toward the said lower edge and carrying means by which the plate is united with the paper carriage and held in place relative to the platen.

1,388,100. KEY-RING. VIRGINIA DAVIS, New York, N. Y. Filed May 8, 1919. Serial No. 295,582. 2 Claims. (Cl. 59—96.)

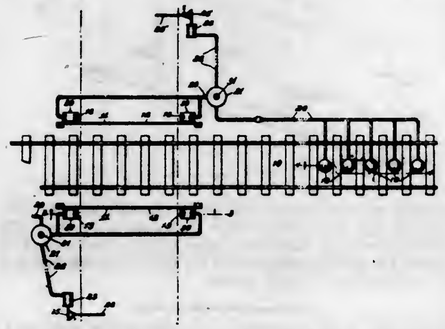


1. As a new article of manufacture, a key ring formed from a continuous piece of wire and embodying a main elongated loop having certain portions of its opposite sides substantially parallel and other portions concave and being provided with ends or leads extending therefrom and returned upon themselves to form a supplemental loop positioned in a plane perpendicular to the plane of the main loop, said supplemental loop being provided with a slit or opening whereby a key may be inserted through the slit and secured to the key ring.

1,388,101. PNEUMATIC RAILWAY-GATE. ROSS DE SIMONE, Hilton, N. Y. Filed Sept. 27, 1919. Serial No. 326,967. 1 Claim. (Cl. 246—272.)

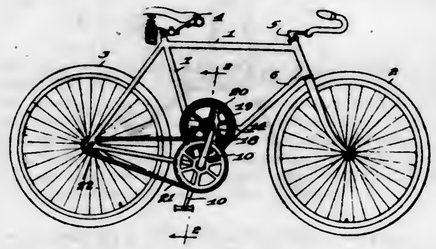
In combination with the rails of a track, a crossing, pivotally supported weight influenced gates at the crossing and a signal carrying shaft to one side of the gates, of pneumatic means for operating the gates to an obstructing position and for revolving the shaft to bring the signal thereon to signaling position, including air compressing pumps disposed one forward of the other between the rails of the track, to the sides of the crossing, each of said pumps including a cylinder having an air bleed port, a plunger in the cylinder spring influenced toward the top of the cylinder, a stem for the plunger passing through the cylinder and a rounded head for the stem, and the said rounded heads being in the path of engagement with a

contact element on a train approaching the crossing, a reservoir having a safety valve and having a pipe connection with the respective cylinders, pipes leading from the reservoir, a cylinder with which one of said pipes communicates, a piston therein, a stem for the piston passing through the cylinder, a slotted rod connected with the shaft



of the signal arm freely receiving the end of the stem in the slot thereof, cylinders having bleed ports with which the second pipe communicates, pistons therein, rods therefor projecting through the cylinders, links pivotally connected to the rods, and a crank on the pivot of the respective gates to which said links are pivoted.

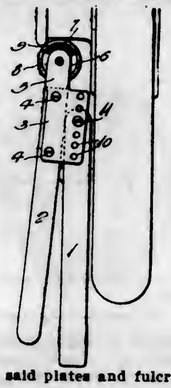
1,388,102. BICYCLE PROPULSION-GEARING. GABRIEL H. W. DOOSE, New Orleans, La. Filed July 2, 1920. Serial No. 393,651. 2 Claims. (Cl. 204—17.)



1. The combination with a bicycle frame comprising the usual forward frame tube and seat standard, of a transverse hanger sleeve arranged at the juncture of said forward frame tube and seat standard, a crank-shaft rotatably mounted within the transverse hanger sleeve, a horizontal supporting bridge joining the forward frame tube and seat standard, a transverse tubular supporting sleeve intermediate the ends of said horizontal supporting bridge, a countershaft rototably mounted within the transverse tubular supporting sleeve, a double sprocket loosely mounted on the crank-shaft, means to transmit the rotation of the crank-shaft to the counter-shaft, means to transmit the rotation of the counter-shaft to one member of the double sprocket, and connecting means between the other member of the double sprocket and the rear drive sprocket of the bicycle.

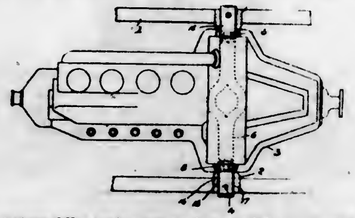
1,388,103. JACK. JOHN P. DORAU, North Fond du Lac, Wis. Filed Dec. 20, 1920. Serial No. 431,990. 3 Claims. (Cl. 254—120.)

1. A jack of the class described comprising a lever, plates connected to the upper end of the latter and extending beyond said upper end and inner face, said extended portions being formed with bearing openings, a supporting standard arranged between the plates, a fulcrum pin passing through the standard and rotatable in the adjacent bearing openings, and a movable hub engaging member also



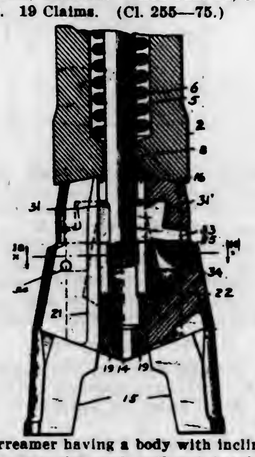
arranged between said plates and fulcrumed in the adjacent bearings.

1,388,104. AUTOMOBILE-ENGINE SUPPORT. GEORGE DOTTERWEICH, Richmond Hill, N. Y. Filed June 13, 1919. Serial No. 303,915. 1 Claim. (Cl. 180—64.)



An automobile engine support comprising a cradle formed of a central support 6, side arms 7, inwardly extending lugs 15, hold-down blocks 8 introduced between the upper surface of the outer rim of the engine casing and the nether side of the projecting inwardly extending lugs 15 of the cradle, and tightening bolts 13, as and for the purpose herein set forth.

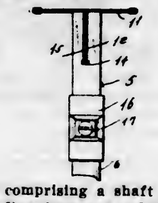
1,388,105. UNDERREAMER. EDWARD DOUBLE, Los Angeles, Calif.; Alice Double administratrix of said Edward Double, deceased. Filed Jan. 24, 1919. Serial No. 272,810. 19 Claims. (Cl. 255—75.)



1. An underreamer having a body with inclined end surfaces forming expansion and upthrust bearings and in-

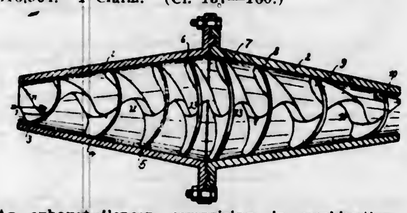
thrust bearings at the central portion of the body above such expansion bearings and with grooves at each side of such bearings, and pocket cutters having strengthening ribs fitting into said grooves when the cutters are collapsed.

1,388,106. FRUIT-PICKER. JOHN HENRY EMERSON, Syracuse, N. Y. Filed Oct. 2, 1918. Serial No. 256,568. 1 Claim. (Cl. 56—339.)



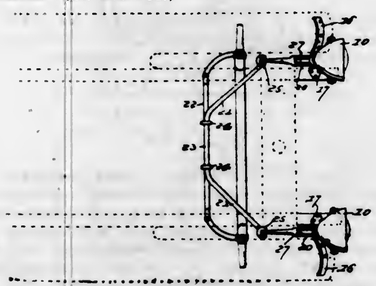
A fruit picker comprising a shaft provided at its side with a groove leading from one end thereof, and provided at its inner end with an enlargement, a loop member having an angularly disposed tang which is received in the groove and in the enlargement thereof, a sleeve member adapted to fit over the end portion of the shaft and inclose the groove and the tang and a set screw carried by the sleeve member and adapted to engage the tang.

1,388,107. EXHAUST-SILENCER. JOHANN ERNST, Paderborn, Germany. Filed Aug. 11, 1919. Serial No. 316,904. 1 Claim. (Cl. 137—160.)



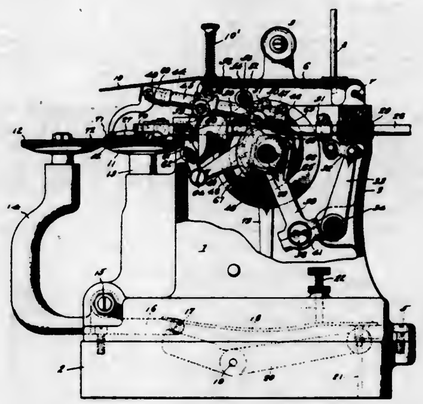
An exhaust-silencer, comprising, in combination, an open-ended casing of double-cone shape and a correspondingly shaped helix therein of a bulb formation on the side facing its outlet-end and of a pitch increasing from its middle toward both ends, said helix having a central bore therein which is cylindrical in its middle and conically increased toward both ends, substantially as and for the purpose set forth.

1,388,108. DIRIGIBLE HEADLIGHT. HERBERT R. FREITAG, CHRISTIAN HINTZ, Jr., and ANDREW HINTZ, Max, N. D. Filed July 14, 1920. Serial No. 396,312. 1 Claim. (Cl. 240—62.)



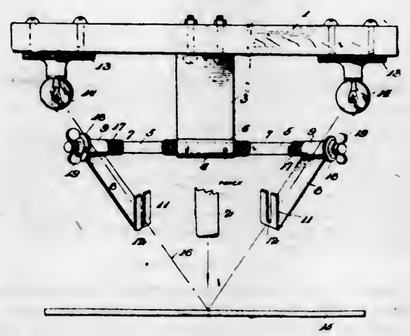
The combination with an autovehicle having a spindle connnecting rod, of a headlight provided with a stem and a bearing in which the stem is angularly movable, the stem being projected below the bearing and made cross-sectionally angular on said lower projecting end, a lever longitudinally slotted adjacent one extremity, the angular portion of the stem projecting through said slot, the remaining extremity of the lever being formed with a ball, a bar having its intermediate portion disposed in substantial parallelism with the spindle connecting rod, and clamps securing said bar to the spindle connecting rod at spaced points, the bar being deflected to provide an upward forwardly extending arm provided at its extremity with a socket in which the ball of said lever engages to provide a universal connection between the two.

1,388,109. GLOVE-SEWING MACHINE. ALFRED GRIEB, Elizabeth, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a Corporation of New Jersey. Filed June 23, 1920. Serial No. 391,083. 9 Claims. (Cl. 112—16.)



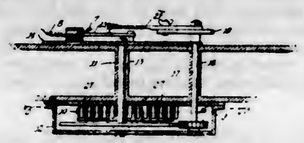
1. In a sewing machine, a frame, stitch-forming mechanism comprising a needle and looper, a looper-support, a shaft having driving means thereon, a lever fulcrumed in the frame and having operative connection with the looper-support, a crank fulcrumed in the frame and having operative connection with said support, and a floating member having operative connection with said lever, crank and driving means.

1,388,110. PUNCH-CENTERING DEVICE. RAYMOND G. HALLOCK, Seattle, Wash. Filed Nov. 25, 1919. Serial No. 340,671. 7 Claims. (Cl. 33—46.)



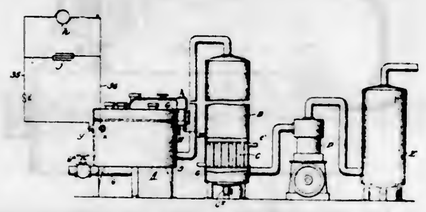
1. A punch-center locating means, including independent light supports, lights therein and means for directing a narrow beam from each of said lights onto the work-piece, to intersect on the punch center.

1,388,111. ELECTRIC STOVE. ALLAN C. HARRINGTON, Chicago, Ill. Filed May 28, 1920. Serial No. 384,834. 8 Claims. (Cl. 219—35.)



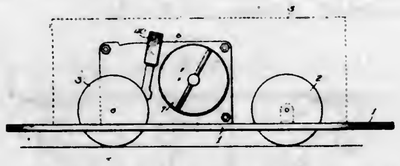
1. An electric stove comprising a receptacle, a heater element within said receptacle, a thermostatic device within said receptacle, a circuit closing arm, an element coöperating with said thermostatic device and movable in response to the movement thereof, said element cooperating with said circuit closing arm, connections between said element and said circuit closing arm, and means for adjusting the relation of said connnection with respect to the circuit closing arm and said element.

1,388,112. METHOD OF AND APPARATUS FOR TREATING AIR AND GASES ELECTRICALLY. WILLIAM T. HOOFNAGLE, Bloomfield, N. J., assignor to Electro Chemical Products Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 6, 1920. Serial No. 363,807. 11 Claims. (Cl. 204—29.)



1. The method of treating air and gases which comprises passing the air or gas through an electric field and causing the products to flow, while in a nascent state, in contact with a catalyzer.

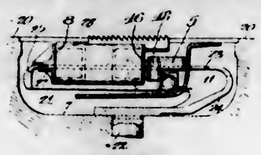
1,388,113. AUTOMATICALLY REVERSIBLE MECHANICAL TOY. WALTER H. HUTH, Chicago, Ill. Filed June 21, 1920. Serial No. 390,355. Renewed July 15, 1921. Serial No. 485,022. 12 Claims. (Cl. 46—48.)



1. In a reversible mechanical toy, the combination of a motor, propelling means, transmission gearing between the motor and said propelling means, a weight mounted on the toy to move forward and backward by momentum, when the toy is stopped, and devices operated by said weight to control said gearing and thereby reverse the direction of travel.

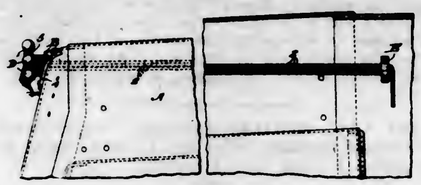
1,388,114. POSITION-BRACKET FOR SEWING-MACHINES. GEORGE JACKSON, Chicago, Ill., assignor, by direct and mesne assignments, to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 7, 1917. Serial No. 190,155. 6 Claims. (Cl. 112—231.)

1. In a sewing machine, in combination, a circularly movable loop-taker, a thread-case having at one side a bearing in and supported by said loop-taker, and a holder having a portion adapted for engagement with the other side of said thread-case to confine it to said bearing and



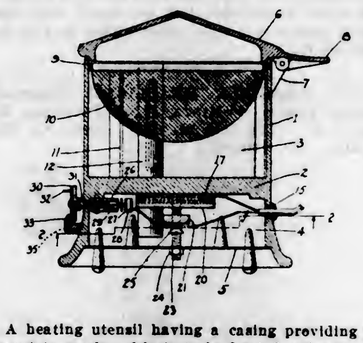
to retain it from movement with the loop-taker, said portion of the holder being retractable from normal effective relation with the thread-case to permit removal of the latter from the loop-taker.

1,388,115. ARRANGEMENT OF WATER-GAGE COCKS. WILLIAM F. KIESEL, Jr., Altoona, Pa. Filed Oct. 29, 1918. Serial No. 260,160. 6 Claims. (Cl. 122—4.)



1. The combination with a series of pipes extending from the end of a boiler toward the center thereof and terminating at different levels within the boiler, of a single casing having independent chambers with sockets for the rear ends of said pipes, and gage cocks connected with the casing and communicating independently with the different chambers, substantially as described.

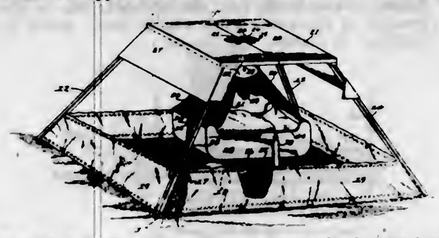
1,388,116. HEATING UTENSIL. GEORGE S. MONSON, St. Paul, Minn., assignor to M. F. Patterson Dental Supply Company, Chicago, Ill., a Corporation of Illinois. Filed July 31, 1920. Serial No. 400,326. 9 Claims. (Cl. 219—44.)



1. A heating utensil having a casing providing a compartment to receive objects to be heated, a heating chamber below said compartment, an electric heating unit in said chamber, the casing adjacent said chamber being apertured, and electric signal means projecting through said aperture whereby the heat-producing condition of the heating unit may be exteriorly signaled.

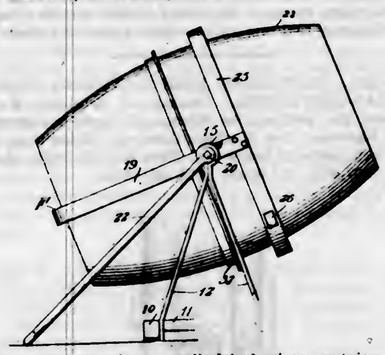
1,388,117. SWINGING CRADLE. JOSEPHINE S. NIMICKS, Freehold, N. J. Filed July 20, 1920. Serial No. 397,729. 1 Claim. (Cl. 5—66.)

In a foldable structure of the character described particularly for the suspension of a child's cradle and comprising a plurality of inclined standards, connections for the lower ends of said standards, a bipartite top to which the upper ends of said standards are removably



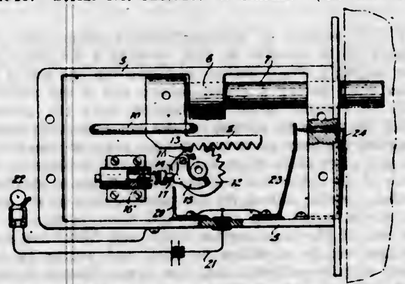
secured, a latch and keeper arrangement for locking both parts of the top together, and canvas strips carried around the standards at their foot and at their top parts.

1,388,118. CONCRETE-MIXER. WILLIAM E. PALMETER, Elmwood, Nebr. Filed Jan. 2, 1920. Serial No. 348,755. 1 Claim. (Cl. 83—73.)



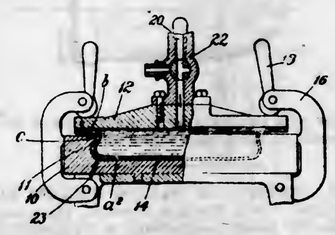
In a concrete mixer, a cylindrical mixer container normally disposed in upwardly inclined position and having its upper end open, a support for said container, means for rotating said container, and a lever connected to said container and extending outwardly and downwardly at one side of the same beyond the closed end thereof and at an angle to the axis of the container, the free end of said lever normally acting to sustain said container in position for the mixing operation and also acting to brace the same and said support during such operation, said lever being operable for tilting said container to and from dumping position.

1,388,119. LOCK-OPERATED CIRCUIT-CLOSER. ZYGMUNT H. PEHEL, New York, N. Y. Filed Sept. 10, 1919. Serial No. 324,115. 2 Claims. (Cl. 200—55.)



1. In a lock operated circuit closer of the character described, including a lock bolt, a pinion operating the lock bolt, a pawl pivoted on said pinion, and an electric contact member near said pawl adapted to be engaged by the same upon the operation of said pinion by a key.

1,388,120. METHOD OF MAKING SHOES. JOSEPH H. POPE, Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Sept. 8, 1919. Serial No. 322,525. 19 Claims. (Cl. 12—142.)



3. That improvement in the method of making shoes which comprises preparing a flat blank, molding the central portion of the blank into the shape of a vessel or pouch without disturbing the disposition of the marginal portions, placing the pouched portion within an external mold, confining the marginal portion, and subjecting the interior of the blank to uniform pressure to cause it to assume the shape of the external mold.

1,388,121. WINDOW-SASH. HERMAN P. PORTER, Jacksonville, Fla. Filed Dec. 1, 1919. Serial No. 341,658. 13 Claims. (Cl. 20—56.1.)

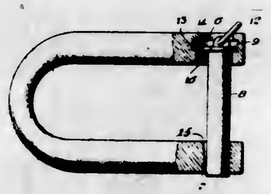


1. An outer sash frame, in combination with an inner sash frame removably and adjustably secured to the outer frame, said inner frame having a longitudinal groove formed within the outer face of its top rail terminating within said rail, and a longitudinal groove formed in the outer face of each side rail communicating with the first named longitudinal groove, and a longitudinal groove formed in the inner face of the bottom rail of the outer sash frame communicating with said longitudinal grooves formed in the side rails, whereby a drainage chamber is formed between the inner and outer sash frames.

1,388,122. CLEVIS. WILLIAM PORTER, Aurora, Oreg. Filed Mar. 16, 1920. Serial No. 366,259. 4 Claims. (Cl. 97—4.)

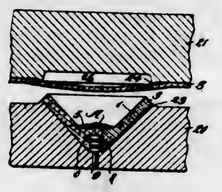
1. In a pin and clevis device, a clevis having a pair of eyes, one of which is provided on its inner surface with a recess elongated in the direction of the length of the clevis, a lug projecting into said eye at the rear thereof and overlying the elongated recess, the other eye being

flared inwardly, and a pin having a head adapted to seat in the recess and provided with a cutaway portion adapted



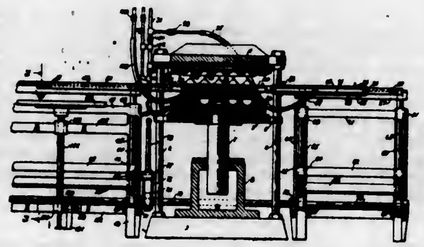
to register with the inwardly projecting lug of the clevis, and a handle mounted upon said head.

1,388,123. METHOD OF MAKING HOLLOW RUBBER ARTICLES. FRED THOMAS ROBERTS, Cleveland, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 26, 1917. Serial No. 198,620. 12 Claims. (Cl. 18—56.)



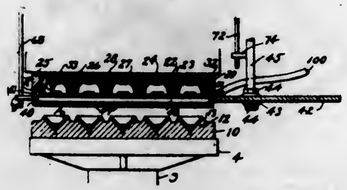
1. The process of making hollow rubber articles consisting of forming between male and female dies a part adapted to become comparatively stiff when vulcanized, causing another part to abut and adhere to the end of the part first formed the abutting portions being coplanar, thereafter causing said other part to expand to its proper shape, and vulcanizing it in the expanded position.

1,388,124. PROCESS OF AND APPARATUS FOR MAKING HOLLOW RUBBER ARTICLES. FRED THOMAS ROBERTS, Cleveland Heights, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Apr. 25, 1918. Serial No. 230,625. 68 Claims. (Cl. 18—19.)



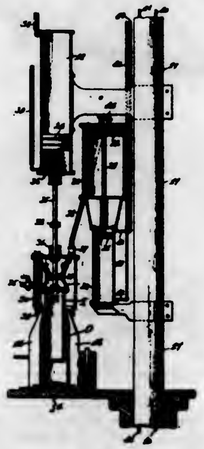
1. In an apparatus for making rubber articles, the combination of a press, coacting mold members carried thereby, a carrier for bringing rubber to be acted upon into the space between the mold members, a slide on which the carrier is mounted, and guides on the opposite sides of the press for slidably supporting the slide.

1,388,125. APPARATUS FOR MAKING HOLLOW RUBBER ARTICLES. FRED THOMAS ROBERTS, Cleveland, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa., a Corporation of Delaware. Filed Aug. 5, 1918. Serial No. 248,280. 18 Claims. (Cl. 18—19.)



18. In an apparatus of the character described, the combination of a mold member having a cavity, a groove in the member extending entirely about the cavity, means for exhausting the air from the cavity and groove, a carrier plate adapted to present a rubber sheet to the mold, said carrier plate having a projecting border portion adapted to effectively seat the rubber sheet across the groove.

1,388,126. PROCESS OF MANUFACTURING VACUUM WALL-CONTAINERS. CHARLES A. ROHLAND, Uniontown, Pa., assignor, by direct and mesne assignments, to Vacuum Glass Machine Company, Uniontown, Pa., a Corporation of Delaware. Filed Mar. 20, 1920. Serial No. 367,472. 4 Claims. (Cl. 49—82.)



1. The process of manufacturing vacuum wall containers which consists in, first, forming a hot inner section having a closed bottom and open top end and a hot outer shell having a closed bottom and a top provided with an opening larger in diameter than the greatest width of the body portion of the inner section, second, inserting the body portion of the hot inner section within the hot outer shell, third, exhausting the air between the walls of the outer shell and the body portion of the inner section, fourth, uniting the hot inner portion of the opening of the outer shell and the hot outer portion of the top end of the inner section while said inner and outer portions are in condition to stick and adhere to each other and hermetically seal the space formed between said outer shell and inner section, whereby a vacuum wall container is produced without reheating any portion of the sections forming the container.

1,388,127. BRUSH. CHARLES SCHATTE, New York, N. Y., assignor to Schatte Manufacturing Co. Inc., Lansdale, Pa., a Corporation of Delaware. Filed Nov. 10, 1920. Serial No. 423,045. 2 Claims. (Cl. 15—38.)



1. A brush, comprising a handle having a socket in one of its ends, a thimble drawn over the socketed end of said handle having an opening in its flat head and a slot in its cylindrical wall in a plane at right angles to the longitudinal axis of said handle, a disk shiftably disposed within said thimble abutting against the inner face of the flat head of the latter, said disk being provided with an opening adapted to register with the opening in said thimble and with a thumb piece projecting through said slot, and a knot projecting through said openings into said socket, said knot being held in position on said handle by shifting said disk to bring its opening into eccentric relation to the opening in said thimble.

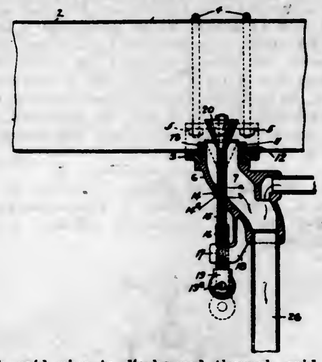
1,388,128. APPARATUS FOR HARDENING FLAT CONCRETE WORK. LLOYD R. SMITH, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a Corporation of New York. Filed Oct. 4, 1920. Serial No. 414,500. 12 Claims. (94—24.)



1. Means to inclose an area of a concrete floor and maintain a quantity of water on the surface thereof to retain moisture in the concrete mass and retard the setting of the cement, the said means comprising a portable dam, with resilient sealing provisions adapted to engage the surface of the concrete floor to prevent escape of impounded water.

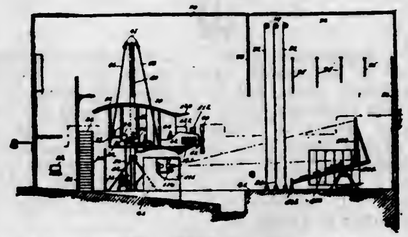
1,388,129. FEED-REGULATOR FOR POWDERED COAL. HANSON THOMAS and JOHN DAHLSTROM, Pittsburgh, Pa. Filed Sept. 12, 1919. Serial No. 323,381. 1 Claim. (Cl. 302—59.)

In a feed regulator for powdered fuel, the combination of a supply pipe for conveying the air and powdered fuel, having a discharge outlet, a connection leading from said outlet having an opening formed therein, with inner and outer inclined faces surrounding said opening, a rotary stem carried by said connection and passing through said opening, and a deflecting member carried by said stem adapted to be projected into the path of the air and powdered fuel, or withdrawn therefrom whereby a portion of the air and powdered fuel in its passage



through said pipe is discharged through said discharge opening.

1,388,130. AMUSEMENT APPARATUS. FREDERICK WILLIAM THOMPSON, deceased, New York, N. Y., by Selene P. Thompson, administratrix, New York, N. Y. Filed Oct. 29, 1919. Serial No. 334,329. 17 Claims. (Cl. 46—70.)



1. An amusement apparatus, comprising a movable craft adapted to accommodate passengers, a driven propeller mounted on the craft, and means for swinging the craft rearwardly into loading position and for releasing the craft after it is loaded to allow it to move forwardly by gravity and aided by the propeller.

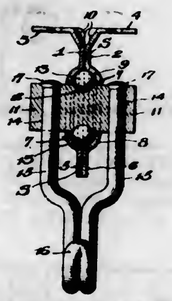
1,388,131. WRENCH. JAMES WILLIAM TRACY, Smithland, Ky. Filed July 21, 1919. Serial No. 312,356. 1 Claim. (Cl. 81—88.)



A tool of the kind described comprising a passive jaw formed with a bar, an active jaw slidably mounted on said

bar and movable toward and away from the passive jaw, a pair of pivotally connected handles one of which is integrally connected with the bar and the other of which is formed with an arm in whose upper edge is formed a slot, a block slidably mounted on the bar and having a stud entering and loosely engaging the active jaw and formed with spaced teeth on one side, a link seated in the slot in the arm and pivotally connected with the arm and also pivotally connected with the block and a worm rotatably mounted on the active jaw and engaged with the teeth in the stud.

1,388,132. SUSPENSION-HOOK. CHARLES F. WALP, ATWOOD J. HICKS, and FRED O. REEDY, Berwick, Pa. Filed Mar. 29, 1920. Serial No. 369,704. 2 Claims. (Cl. 248—64.)

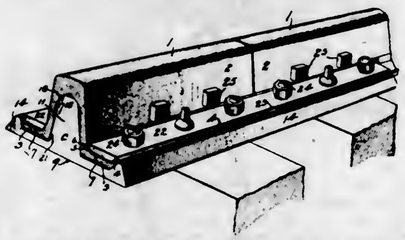


1. A suspension hook of the class described including a pair of complemental hanger plates bent to provide an attaching portion and a hook supporting portion, the said hook supporting portion of each plate being provided with an opening, a reinforcing rib formed in each of the plates to prevent the hinging of the hook supporting portions thereof at the junction with the attaching portions, a bearing spool having a non-frictional journal support in the openings of the plates, and a suspension hook carried by the spool.

1,388,133. METHOD OF MANUFACTURING WATER-SOFTENING MATERIAL. JAMES B. WHERRY, Des Moines, Iowa, assignor to The Refinite Company, a Corporation of Delaware. Filed May 29, 1917. Serial No. 171,782. 2 Claims. (Cl. 23—13.)

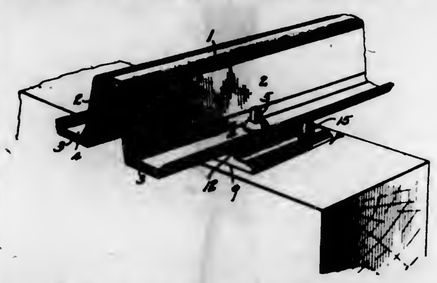
1. The herein described process of producing a water softening material which includes the step of subjecting a natural clay substance having base exchange properties to a temperature sufficiently high to completely dehydrate the material without fusion thereof, and subsequently rehydrating the dehydrated material with an aqueous solution containing an alkali metal.

1,388,134. RAIL-JOINT FOR U-RAIL SECTIONS. GEORGE W. WHITEMAN, Philadelphia, Pa., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed May 24, 1919. Serial No. 299,389. 23 Claims. (Cl. 238—137.)



1. A rail joint including a U-rail having a horizontal fishing channel and a fish plate fitting said channel.

1,388,135. TIE-PLATE MOUNTING FOR U-RAIL SECTIONS. GEORGE W. WHITEMAN, Philadelphia, Pa., assignor to The Rail Joint Company, New York, N. Y., a Corporation of New York. Filed May 24, 1919. Serial No. 299,390. 2 Claims. (Cl. 238—137.)



1. A tie plate mounting for U-rail sections comprising, in combination, the tie plate having at the top two pairs of spaced parallel abutment ribs forming seats between them, a U-rail section having base flanges each of which is seated between a pair of the said ribs, and fasteners engaging the base flanges of the rail and said tie plate.

1,388,136. APPARATUS FOR DISTRIBUTING FERTILIZERS, INSECTICIDES, AND FUNGICIDES. LEON F. WHITNEY, Brooklyn, N. Y., assignor to National Farm Equipment Company Inc., New York, N. Y. Filed May 19, 1920. Serial No. 382,473. 3 Claims. (Cl. 299—83.)



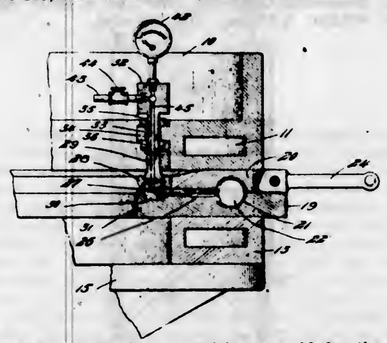
1. In a device of the character described, a casing having water inlet and outlet passages, a perforated plate in the casing and a cartridge containing cup having its side walls spaced from the casing and its bottom supported by and spaced from the perforated plate, said cup having its bottom imperforate and its side walls imperforate up to a point adjacent its mouth where the side walls are perforated to permit the passage of the impregnated water from the cup into the space between the cup and casing.

1,388,137. VALVE-STEM ATTACHMENT. MARTIN T. WILLEY, Lead, S. D. Filed May 6, 1920. Serial No. 379,287. 6 Claims. (Cl. 251—144.)



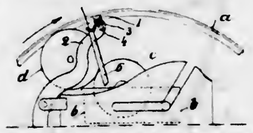
3. The combination with a valve and its stem, said stem being provided near its free end with recess means, of a spring surrounding the stem, a washer having an opening to receive the stem and provided with oppositely arranged radially projecting extensions, and a cap arranged outwardly of the washer, said cap having a radially extending key-hole opening with its larger portion disposed outermost, the inner smaller portion of the key-hole opening engaging with the recess means, said cap being provided near the large end of the key-hole opening with a laterally extending flange to engage with the edge of the washer between said extensions, said flange extending transversely of the key-hole opening, the extensions projecting outwardly beyond the cap.

1,388,138. METHOD OF AND APPARATUS FOR VULCANIZING. ROBERT H. ATCHESON, Providence, R. I., assignor to Ibex Rubber Corporation, Jersey City, N. J., a Corporation of Delaware. Filed Feb. 16, 1921. Serial No. 445,533. 8 Claims. (Cl. 18—17.)



1. A tube vulcanizer comprising a mold for the tube having a single communicating opening thereinto, means for heating the mold, a single hollow stem extending through said opening and communicating with said tube therein, means for communicating with an air supply and connected to said stem for admitting air pressure into said tube to expand the same in said mold, and means communicating with a steam supply also connected to said stem, whereby a vulcanizing pressure of steam may also be subsequently admitted to the confined air in the tube through said stem to vulcanize the interior of said tube.

1,388,139. ROTARY DUPLICATOR. LOUIS PHILIPPE BOSC, Paris, France. Filed Feb. 26, 1920. Serial No. 361,555. 3 Claims. (Cl. 101—120.)



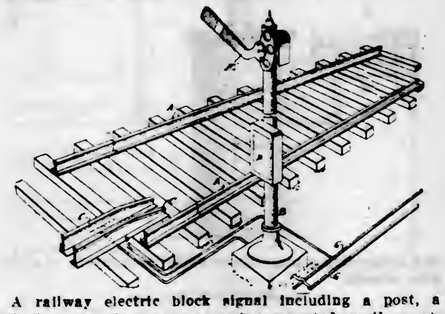
1. A duplicating device of the printing plate or stencil type, comprising the combination of a rotating cylinder, a roller for disposing the ink along a line upon the inner surface of the said cylinder, a brush disposed beyond the inking line for equilizing the ink applied by the said roller upon the inner surface of the said cylinder and for removing the excess of ink therefrom.

1,388,140. BINDER. LOUIS E. BALTZLEY, Glen Ridge, N. J. Filed Apr. 29, 1920. Serial No. 377,425. 12 Claims. (Cl. 129—35.)



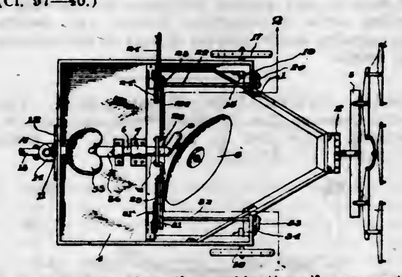
5. A binder comprising a pair of cooperating clamping jaws having backs sliding one over the other in the opening and closing movements of the jaws and provided with relatively inclined slots arranged on intersecting planes, means for confining the backs against longitudinal shifting movement, operating means working in the intersecting slots for shifting the backs to open and close the jaws, said operating means including longitudinally shiftable slide, finger grips at the opposite ends of said slide and cooperating finger grips at the opposite ends of the jaws.

1,388,141. AUTOMATIC BRAKE CONTROL FOR TRAINS. VERNE S. BURTON, Bridgeburg, Ontario, Canada, and STAFFORD A. BURTON, Detroit, Mich. Filed Mar. 27, 1919. Serial No. 285,511. 1 Claim. (Cl. 246—190.)



A railway electric block signal including a post, a swinging semaphore arm, a casing mounted on the post, a vertically movable rod in the casing which can be connected with the semaphore arm, a motor located within the casing at the bottom thereof, a vertical train of gears connected at the lower end with the motor and extending upwardly therefrom, a rocker arm connected with the train of gears at the upper end thereof and also connected with the vertically movable rod for raising and lowering the same and an electric switch operated by the vertically movable rod and composed of a contact member located within the casing at one side of the rod, an insulating member mounted on the interior of the casing and supporting the said contact member, a yieldable brush carried by the rod and having a free terminal portion movable over the insulating member onto and off of the contact member and a spring carried by the rod and bearing against the brush intermediate of the ends thereof for urging the same toward the insulating member and the contact member.

1,388,142. PLOW. ULYSSES E. COOK, Pomona, Calif. Filed May 27, 1919. Serial No. 300,156. 5 Claims. (Cl. 97—40.)

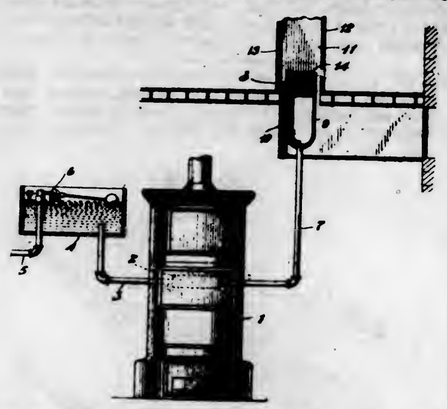


1. In a turning plow, the combination of a supporting frame, a platform carried thereby and being of less length than the frame to provide an opening through the frame, a beam mounted to turn in the opening, a disk carried by the beam, and means for swinging the beam to reverse the angle of the disk.

1,388,143. MEANS FOR CONDITIONING VAPOR. ROBERT W. HARDIE, White Plains, N. Y. Filed Aug. 20, 1920. Serial No. 404,951. 4 Claims. (Cl. 126—113.)

4. In an air humidifying device, the combination of a vapor generator, an open topped vapor expansion recep-

tacle connected with said generator, and a vapor restraining and heat radiating member covering said open top



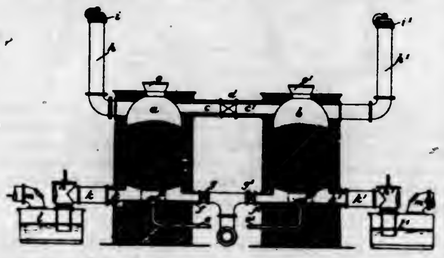
and comprising a plurality of superposed layers of woven wire strands.

1,388,144. MECHANICALLY-OPERATED SCOTCH HEARTH. WILLIAM E. NEWNAM, Collinsville, Ill., assignor, by mesne assignments, to National Lead Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 3, 1916, Serial No. 88,673. Renewed Nov. 4, 1918. Serial No. 261,144. 35 Claims. (Cl. 259—144.)



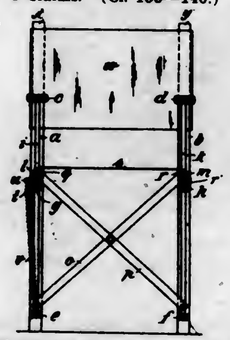
1. A smelting furnace, comprising, a Scotch hearth adapted to receive molten metal upon which floats the material to be smelted, a carriage mounted for movement along said hearth, a rabbling device mounted on said carriage and adapted to engage the material on said hearth, operating means for imparting a step by step movement to said carriage, and means for operating said rabbling device in coöperative relation with respect to said operating means, adapted to work up the material on said hearth.

1,388,145. GASIFICATION OF SOLID FUEL. FRIEDRICH GODFRIED CARL RINCKER, Watergraafsmeer, Netherlands. Filed Oct. 4, 1919. Serial No. 328,462. 4 Claims. (Cl. 48—202.)



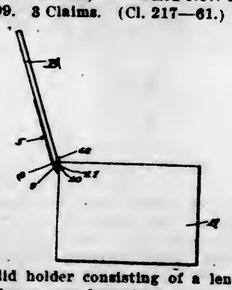
1. A method for producing gas from solid fuel such as coal or the like which consists in passing water gas through said fuel, so as to leave a residue of coke while producing gases which are led off, and then after the said gases have been evolved from the said material, passing steam through the said residue of coke before it has substantially cooled, the coke being at a sufficiently high temperature to cause the production of water gas and then passing the water gas so produced without any substantial lowering of the temperature thereof, through another mass of fuel for the purpose of producing gases from said other mass, the said fuel being always at a lower temperature than the water gas acting thereon, and the mixture of water gas and gases produced from said fuel being led directly to a receiver.

1,388,146. FOLDING CHAIR. LUDWIG SCHEIBE, Krölpa, Kr. Ziegenrück, Germany. Filed Apr. 9, 1921. Serial No. 460,024. 3 Claims. (Cl. 155—140.)



1. A collapsible chair, the lateral members or frames of which are connected to one another by pivoted or trellis struts and in which one side of the seat secured to one of the lateral frames passes over rods secured to the upper ends of the trellis struts, the other side of the said seat being secured to a spring-pulled sliding rod keeping the seat stretched in any position of the chair.

1,388,147. BOX-LID HOLDER. THEODORE D. ANAGNOSTOPOULOS, Opelousas, La., assignor of one-half to James M. Fox, New Orleans, La. Filed Nov. 22, 1920. Serial No. 425,799. 3 Claims. (Cl. 217—61.)



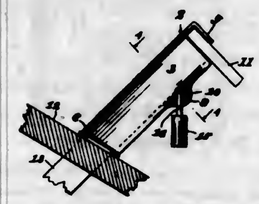
1. A box lid holder consisting of a length of resilient material having a spur formed in one end portion, the opposite end of said body member being extended back upon said body member to provide a stop, the extremity of said end portion being offset and formed into a spur.

1,388,148. TRANSFORMABLE AUTOMOBILE-TRACTOR. DON M. BROCKWAY and FOSS R. BROCKWAY, Los Angeles, Calif. Filed Mar. 25, 1916. Serial No. 86,816. 7 Claims. (Cl. 180—16.)



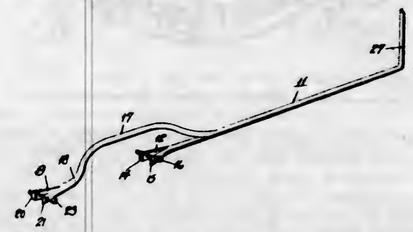
1. The combination with an automobile frame and driving axle, of a tractor axle, tractor wheels thereon, a hanger hinged to the automobile frame and carried by the tractor axle; said hanger supporting the driving axle, and means connecting the driving axle to the tractor wheels to drive the same.

1,388,149. CLUTCH-PEDAL LOCK FOR AUTOMOBILES. EDWARD JOHN FRIEDRICH, Minneapolis, Minn. Filed Sept. 2, 1920. Serial No. 407,715. 1 Claim. (Cl. 70—128.)



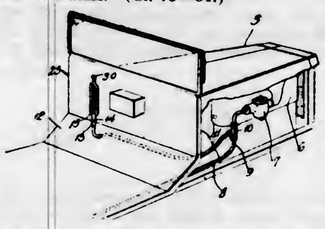
The combination with a clutch pedal and foot-board of an automobile, of a rigid device adapted to be interposed between the pedal and the foot-board, said device being formed from a single piece of sheet metal bent to present a rear portion, and a pair of parallel side members, said rear portion extending beyond the top edges of the side members and being bent at right angles to engage the upper face of the pedal transversely, while the lower extremities of said side members are flexed outwardly to provide flanges for engagement with the footboard and the forward portions of the side members are merged into parallel ears, the device in its entirety having an open front, and being slidable into its final position between the pedal and foot-board, and means for locking the ears together.

1,388,150. HANDLE FOR OPERATING OIL-LEVEL PETCOCKS. WILLIAM D. OHAVER, Judson, Ind., assignor to Montgomery Mfg. Company, Waveland, Ind., a Corporation of Indiana. Filed Jan. 24, 1920. Serial No. 353,765. 4 Claims. (Cl. 137—139.)



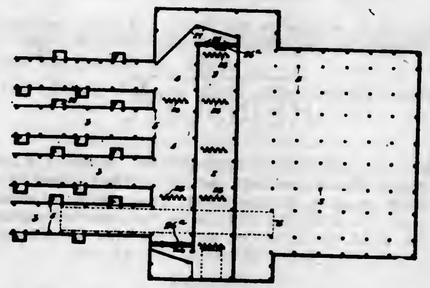
1. A device for operating oil level pet cocks including a rotatable operating bar, and means carried by said bar for engaging with a plurality of pet cocks, whereby to simultaneously operate the same when the bar is turned.

1,388,151. DASHBOARD-GAGE FOR GASOLENE-TANKS. WILLIAM D. OHAVER, Judson, Ind., assignor to Montgomery Mfg. Company, Waveland, Ind., a Corporation of Indiana. Filed Jan. 24, 1920. Serial No. 353,766. 4 Claims. (Cl. 73—54.)



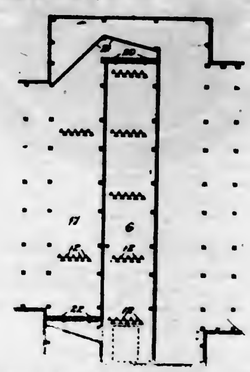
1. An improved gage of the character described adapted to show the level of fuel in a fuel tank comprising a sheet metal shell or frame crimped centrally to provide a substantially cylindrical housing having slots therein, a transparent tube in said housing adapted to receive the liquid fuel and show the height thereof through said slots, and side plates formed by the ends of said sheet metal shell and adapted to be attached to a vehicle.

1,388,152. RACK-EVAPORATOR. FRANCIS WILLIAMS, Adelaide, South Australia, Australia. Filed Feb. 25, 1921. Serial No. 447,871. 8 Claims. (Cl. 34—39.)



1. An evaporator, comprising a preparing room, an evaporating chamber, a wilting room, and sulfuring chambers, the chambers and rooms being provided with alined tray supports to permit trays to be passed from one to the other.

1,388,153. HEATING DEVICE FOR EVAPORATORS, PARTICULARLY EVAPORATORS FOR DRYING FRUIT. FRANCIS WILLIAMS, Adelaide, South Australia, Australia. Filed Feb. 25, 1921. Serial No. 447,872. 4 Claims. (Cl. 34—26.)

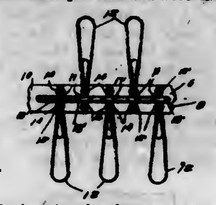


1. In devices for heating evaporators:—a furnace below the evaporating chamber at one side thereof, a flue leading from the furnace and extending beneath said chamber to the other side of same, passages from said flue to a series of chambers positioned beneath the evaporating chamber and transversely thereof, sets of vertical tubes or pipes positioned in the evaporating chamber and corresponding in number to the said chambers and connected at their lower ends with said chambers and at their upper ends with horizontal radiator boxes at the top of the chamber and in communication with outlet flues.

1,388,154. SHELVING. CORNELIUS M. COUTTS, Issaquah, Wash. Filed Oct. 8, 1919. Serial No. 329,377. 2 Claims. (Cl. 211—16.)

2. A shelving comprising a frame having spaced grooves, resilient members bent upon themselves with their ends arranged in parallel relation and resting in said grooves,

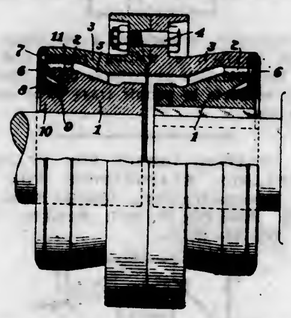
rivets connecting said ends of the resilient members and engaging the frame to prevent endwise movement of said



members in relation to the frame, and means retaining the ends of said members in the grooves of the frame.

REISSUES.

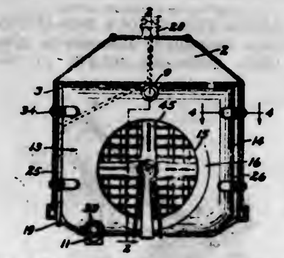
15,177. COUPLING FOR SHAFTING. GUSTAVE FAST, Mount Washington, Md., assignor to The Bartlett Hayward Company, Baltimore, Md., a Corporation of Maryland. Filed May 14, 1921. Serial No. 469,565. Original No. 1,356,860, dated Oct. 26, 1920, Serial No. 284,699, filed Mar. 24, 1919. 29 Claims. (Cl. 64—89.)



20. In combination in a coupling for shafts to hold them in substantially axial alinement, a member encircling a shaft end, a member to be connected with one of the shafts, a drive connection between said encircling member and the shaft member having clearance between them in a radial direction, a ring or flange at the end of the encircling member located out beyond the said driving connection and located between the same and the shaft member, said flange having compensating engagement with the shaft member to accommodate disalinement of the shafts, said encircling member being connected with the other shaft and said compensating engagement being maintained during all changes in the relative positions of the two shafts, substantially as described.

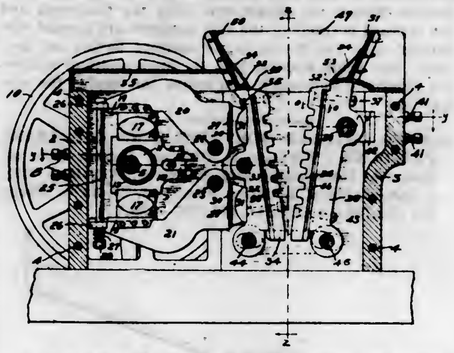
15,178. FAN-HOUSING COOLING EXTENSION. HERBERT H. HART, Orcutt, Calif. Filed Jan. 9, 1920. Serial No. 350,460. Original No. 1,275,682, dated Aug. 13, 1918, Serial No. 186,234, filed Aug. 14, 1917. 12 Claims. (Cl. 123—174.)

1. An extension adapted to be bolted to the rear construction of the radiator of the cooling system of an internal combustion engine for facilitating the induction of air to increase the cooling effect on the radiator and to facilitate the cooling of the engine; said extension consisting of a dished plate having its larger and front portion constructed and arranged to include substantially the en-



tire perforate area at the back of the radiator tubes, and having in its back portion an outlet opening to converge the induced stream of air and direct the same toward the motor.

15,179. ROCK-CRUSHER. CHARLES O. MICHAELSEN, Minneapolis, Minn., assignor to Michaelsen Machinery Company, a Corporation of Nevada. Filed Oct. 28, 1920. Serial No. 420,282. Original No. 1,063,889, dated June 3, 1913, Serial No. 745,726, filed Feb. 1, 1913. 4 Claims. (Cl. 83—53.)



1. In a machine of the character described, a rocking beam, a swinging beam, jaw plates on the adjacent faces of the beams, means for directing the material into the space between the jaw plates, and means comprising a shaft for the rocking beam pivotally supporting the same near its central part, a shaft for the swinging beam pivotally supporting the same near its upper end, a link, a shaft fixed to the lower end of each beam and pivotally connecting each beam with one end of the link and positioning the link axially of said shafts in spaced relation to the beam ends, said last named means to provide, upon the movement of one of the beams, an oscillatory movement of both beams with a simultaneous vertical movement of the opposing faces of the beams relatively to each other, the simultaneous oscillation of the beams causing said opposing faces at the upper ends of the beams to move alternately toward and away from each other while the lower end portions of said opposing faces remain at a substantially constant distance from each other.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 16, 1921.

[PUBLISHED AUGUST 30, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 97,233. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) ESTATE OF P. D. BECKWITH, INC., Dowagiac, Mich. Filed Aug. 9, 1916.



No claim is made to the right to the exclusive use of the words, "Moist-Air Heating System" except in the relation in which they appear in the drawing.

Particular description of goods.—Hot-Air and Combined Hot-Air and Hot-Water Heaters and Furnaces.

Claims use since Jan. 5, 1915.

Ser. No. 110,143. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEWIS T. FOSS, Southern Pines, N. C. Filed Apr. 12, 1918.

HIGHLAND

Particular description of goods.—Fresh Peaches, Just as Taken From the Tree.

Claims use since July, 1914.

Ser. No. 115,482. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Jan. 28, 1919.

SILVERTOWN

Particular description of goods.—Pneumatic-Tire Casings of Cord or Thread and Rubber Construction.

Claims use since about July, 1910.

Ser. No. 116,784. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE LOCOMOBILE COMPANY OF AMERICA, Bridgeport, Conn., and New York, N. Y. Filed Mar. 21, 1919.



Particular description of goods.—Self-Propelled Vehicles—Namely, Trucks.

Claims use since March, 1916.

Ser. No. 116,788. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NEW PROCESS CHEMICAL CO., INC., New York, N. Y. Filed Mar. 21, 1919.

TRI-BITUME

Particular description of goods.—Ready-Mixed and Waterproofing Paints, Waterproofing-Fillers in the Nature of Paint.

Claims use since September, 1917.

Ser. No. 118,221. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FOWLER NAIL CO., Seymour, Conn., assignor to The Fowler & Union Horse Nail Company, New Haven, Conn., a Corporation of Connecticut. Filed May 7, 1919.



Particular description of goods.—Cold-Rolled Horseshoe-Nails.
Claims use since on or about Mar. 19, 1908.

Ser. No. 118,222. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FOWLER NAIL CO., Seymour, Conn., assignor to The Fowler & Union Horse Nail Company, New Haven, Conn., a Corporation of Connecticut. Filed May 7, 1919.

CROWN

Particular description of goods.—Cold-Rolled Horseshoe-Nails.
Claims use since on or about Mar. 19, 1908.

Ser. No. 120,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ELI LILLY & COMPANY, Indianapolis, Ind. Filed July 7, 1919.

BOROZIN

Particular description of goods.—Toilet Powder.
Claims use since about Sept. 30, 1918.

Ser. No. 121,944. (CLASS 12. CONSTRUCTION MATERIALS.) REYNOLDS COMPANY, LIMITED, Vancouver, British Columbia, Canada. Filed Aug. 23, 1919.



Particular description of goods.—Shingles.
Claims use since 1st day of September, 1918.

Ser. No. 123,400½. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) UNIVERSAL HIGH POWER TELEPHONE COMPANY, Seattle, Wash. Filed Oct. 2, 1919.

WONDERPHONE

Particular description of goods.—Telephones and Parts Thereof, Loud-Speaking or Announcing Telephones, and Music-Transmitting Telephones.
Claims use since July, 1914.

Ser. No. 123,650. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) BERTRICH E. LINQUIST, Minneapolis, Minn. Filed Oct. 10, 1919.

LIBERTY BELL

Particular description of goods.—Phonographs.
Claims use since on or about June 10, 1919.

Ser. No. 124,485. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JAS. H. LONGSHORE, assignor to Continental Chemical Corporation, Watseka, Ill. Filed Nov. 3, 1919.

TRI

Particular description of goods.—Chemical Compounds—Namely, Germicide, Fireless Formaldehyde Fumigators, Roach-Powder, Insecticide, Coal-Tar Disinfectants, Soluble Pine Disinfectants, and Rat-Exterminator.
Claims use since July 2, 1919.

Ser. No. 125,272. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRANK T. ADAMS, Connellsville, Pa. Filed Nov. 25, 1919.

U POLISH

No claim being made to the word "Polish" apart from the mark shown in the drawing.
Particular description of goods.—A Rust-Preventing and Polishing Preparation for Automobile-Bodies Adapted to be Applied by a Cloth.
Claims use since Nov. 17, 1919.

Ser. No. 125,518. (CLASS 15. OILS AND GREASES.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed Dec. 2, 1919.

ESTRELLA

Particular description of goods.—Kerosene-Oil.
Claims use since 1909.

Ser. No. 126,956. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JACOB DAVIS, Arlington, N. J. Filed Jan. 9, 1920.

DAISY STOVE GLOSS



No registration rights being claimed for the words "Stove Gloss" apart from the mark shown in the drawing.
Particular description of goods.—A Paint Coating or Enamel for Iron Surfaces.
Claims use since October, 1919.

Ser. No. 127,484. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NATIONAL TOY AND TINSEL MFG. CO., Manitowoc, Wis. Filed Jan. 22, 1920.



No claim being made to the exclusive use of the words "Nat'l Toys" apart from the mark as shown.
Particular description of goods.—Toys—Namely, Mechanical Autos, Toy Stoves, Locomotives, Passenger-Cars, Freight-Cars, Coal-Cars, and Candle-Holders Made of Sheet Metal; Doll Furniture—Namely, Doll-Houses, Chiffonniers, China-Closets, Dressers, Tables, Chairs, Beds, Cradles, Buffets, Washstands, Wardrobes, Bathtubs, Bath-Stools, Medicine-Chests, and Pianos Made of Wood; Tinsel Garlands and Tinsel Ornaments for Christmas Trees.
Claims use since Jan. 2, 1920.

Ser. No. 128,732. (CLASS 12. CONSTRUCTION MATERIALS.) EDWIN A. JACKSON & BRO. INC., New York, N. Y. Filed Feb. 21, 1920.

JAXON

Particular description of goods.—Built-in Garbage-Receivers Consisting of a Compartment or Closet Made of Tin or other Metal Built into the Wall of a Building.
Claims use since Jan. 15, 1919.

Ser. No. 130,284. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) NATIONAL DRUG STORES CORPORATION, New York, N. Y. Filed Mar. 27, 1920.

NATIONAL

Particular description of goods.—Invalid-Rings, Sprays, Surgeons' Operating Rubber Gloves, Ice-Caps.
Claims use since Nov. 22, 1919.

Ser. No. 131,202. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE AMERICAN CONTINUOUS RETORT COMPANY, Denver, Colo. Filed Apr. 16, 1920.

CONTINUOUS RETORT PROCESS

No claim is made to the words "Continuous," "Retort," and "Process" apart from the mark as a whole.

Particular description of goods.—Ore and Oil-Shale Roasting Furnaces.

Claims use since the 22d of December, 1917.

Ser. No. 131,428. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MAX JACOBSON, New York, N. Y. Filed Apr. 21, 1920.

Astral Board

No claim being made to the word "Board" apart from the mark shown in the drawing.

Particular description of goods.—Talking-Boards.

Claims use since Mar. 5, 1920.

Ser. No. 131,628. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DELTA ELECTRIC COMPANY, Worcester, Mass. Filed Apr. 26, 1920.

DELTA ELECTRIC D COMPANY

Particular description of goods.—Electric Water-Pumping Outfits, Electric-Fixture Parts and Fittings, Shade Attachments for Electric Lights, Electric Signs, and Electric House-Lighting Systems and Parts and Fittings Thereof.

Claims use since 1907.

Ser. No. 132,241. (CLASS 27. HOROLOGICAL INSTRUMENTS.) EMIL GISIGER, Selzach, Switzerland, and New York, N. Y. Filed May 10, 1920.

Timely

Particular description of goods.—Watches, Watchcases, Watch-Dials, Watch-Movements, and Alarm-Clocks.

Claims use since January, 1920.

Ser. No. 132,242. (CLASS 27. HOROLOGICAL INSTRUMENTS.) EMIL GISIGER, Selzach, Switzerland, and New York, N. Y. Filed May 10, 1920.

T

Particular description of goods.—Watches, Watchcases, Watch-Dials, Watch-Movements, and Alarm-Clocks.

Claims use since January, 1920.

Ser. No. 132,243. (CLASS 27. HOROLOGICAL INSTRUMENTS.) EMIL GISIGER, Selzach, Switzerland, and New York, N. Y. Filed May 10, 1920.

Okeh

Particular description of goods.—Watches, Watchcases, Watch-Dials, Watch-Movements, and Alarm-Clocks.

Claims use since January, 1920.

Ser. No. 132,244. (CLASS 27. HOROLOGICAL INSTRUMENTS.) EMIL GISIGER, Selzach, Switzerland, and New York, N. Y. Filed May 10, 1920.

Atlantis

Particular description of goods.—Watches, Watchcases, Watch-Dials, Watch-Movements, and Alarm-Clocks.

Claims use since January, 1920.

Ser. No. 132,245. (CLASS 27. HOROLOGICAL INSTRUMENTS.) EMIL GISIGER, Selzach, Switzerland, and New York, N. Y. Filed May 10, 1920.

Swisstimes

Particular description of goods.—Watches, Watchcases, Watch-Dials, Watch-Movements, and Alarm-Clocks.

Claims use since January, 1920.

Ser. No. 132,246. (CLASS 27. HOROLOGICAL INSTRUMENTS.) EMIL GISIGER, Selzach, Switzerland, and New York, N. Y. Filed May 10, 1920.

Resulta

Particular description of goods.—Watches, Watchcases, Watch-Dials, Watch-Movements, and Alarm-Clocks.

Claims use since January, 1920.

Ser. No. 132,247. (CLASS 27. HOROLOGICAL INSTRUMENTS.) EMIL GISIGER, Selzach, Switzerland, and New York, N. Y. Filed May 10, 1920.

Okay

Particular description of goods.—Watches, Watchcases, Watch-Dials, Watch-Movements, and Alarm-Clocks.

Claims use since January, 1920.

Ser. No. 132,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. B. CARR BISCUIT CO., Wilkes-Barre, Pa. Filed May 17, 1920.

Etoy

Particular description of goods.—Biscuits and Crackers.

Claims use since July 1, 1911.

Ser. No. 132,817. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY P. SCHROEDER, St. Louis, Mo. Filed May 22, 1920.



Particular description of goods.—Non-Intoxicating Beverages—Namely, Fruit Beverages, Carbonated Beverages, Cereal Beverages, Cordials, and Ciders Containing Less Than One-half of One Per Cent. of Alcohol, by Volume, and Sold as Soft Drinks.

Claims use since June 26, 1919.

Ser. No. 132,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATLAS CEREAL COMPANY, Kansas City, Mo. Filed May 24, 1920.



Particular description of goods.—Rolled Oats, Steel-Cut Oats, Cream-Meal, Cornmeal, Hominy-Grits, Pearl-Hominy.

Claims use since Feb. 1, 1900.

Ser. No. 133,555. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) James W. Olts, Oakland, Calif. Filed June 10, 1920.

STAR LIGHT

Particular description of goods.—Automobile and Furniture Polish.
Claims use since Feb. 27, 1920.

Ser. No. 133,985. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Société Ricard Allenet & Cie., Melle, France. Filed June 21, 1920.

Vulcazol

Particular description of goods.—A Furfuramid Chemical Product as Well as All Its Compounds.
Claims use since Feb. 5, 1920.

Ser. No. 134,172. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) American Trading Co., New York, N. Y. Filed June 25, 1920.

RED CAP

Particular description of goods.—Wheat-Flour.
Claims use since 1904.

Ser. No. 134,299. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Bencoe Exporting and Importing Co. Inc., New York, N. Y. Filed June 28, 1920.



FAMOSA

Particular description of goods.—Sheetings.
Claims use since June 1, 1919.

Ser. No. 134,465. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Usher L. Davies, San Francisco, Calif. Filed July 1, 1920.

PEACHERINE

Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since May 1, 1920.

Ser. No. 134,485. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Guy Motors Ltd., Wolverhampton and Fallings Park, England. Filed July 1, 1920.

Guy Motors Limited

Particular description of goods.—Automobiles, Motor-Boats, Aeroplanes, Motorcycles.
Claims use since Oct. 2, 1914.

Ser. No. 135,175. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Société Lyonnaise d'Industrie Mecanique, Lyon-St. Clair-Caluire, France. Filed July 19, 1920.



Particular description of goods.—Automobiles and Lorries.
Claims use since Feb. 27, 1920.

Ser. No. 135,675. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) Ultra Refined Crude Products Company, Chicago, Ill. Filed July 31, 1920.

Ker-ene

Particular description of goods.—A Preparation Used as a Polish for Painted, Varnished, Waxed, and Oiled Surfaces and as a Cleanser and Polish for Wooden and Painted and Varnished Metal Surfaces.
Claims use since June 1, 1920.

Ser. No. 136,430. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Anna E. Reynolds, New York, N. Y. Filed Aug. 24, 1920.



Harriet Hubbard Ayer

This trade-mark consists of the word-symbol "Recamier" and a crest composed of fasces surmounted by a coronet, out of which rises the head of a lion. These are arranged as shown in the accompanying drawing, in which the word "Recamier" with the word "Cream" following it, are in block capital letters and arranged in the form of an arch over the said crest, and the facsimile of the signature of Harriet Hubbard Ayer (the original registrant of this trade-mark and my predecessor) is arranged below the said crest. Apart from the mark as shown in the accompanying drawing, I waive claim to the words "Cream" and "Trade-Mark."
Particular description of goods.—A Cream for the Complexion.
Claims use since 1886.

Ser. No. 136,813. (CLASS 32. FURNITURE AND UPHOLSTERY.) Shu-Betty Company, New York, N. Y. Filed Sept. 3, 1920.

SHU-BETTY

Particular description of goods.—Domestic Shoe-Cabinets.
Claims use since July 7, 1920.

Ser. No. 137,131. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Kumyss, Incorporated, New York, N. Y. Filed Sept. 13, 1920. Under ten-year proviso.



DR. BRUSH'S
KUMYSS

Particular description of goods.—Kumyss.
Claims use since 1875.

Ser. No. 137,381. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Lantz Bros. Baking Co., St. Louis, Mo. Filed Sept. 20, 1920.

GRANDMA'S

Particular description of goods.—Cakes and Cookies.
Claims use since Sept. 3, 1912.

Ser. No. 137,793. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) Harry W. Van Doren, Pulaski, Va. Filed Sept. 30, 1920.

CHERI PEP
ACCENT ON THE EYE

Particular description of goods.—A Non-Alcoholic Maltless Beverage.
Claims use since July 7, 1920.

Ser. No. 137,952. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Maatschappij Ago, Amsterdam and Ter Apel, Netherlands. Filed Oct. 5, 1920.

LIGNOSTONE

Particular description of goods.—Shuttles, Shuttle-Pegs, Picking Band-Pegs, Creel-Pegs, and Shuttle-Peg Pins Made of Wood Hardened by Chemical and Physical Treatment.
Claims use since May 1, 1920.

Ser. No. 138,264. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) CHAS. A. SCHIEREN COMPANY, New York, N. Y. Filed Oct. 13, 1920.



Particular description of goods.—Leather Packings.
Claims use since June 1, 1920.

Ser. No. 138,770. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Oct. 25, 1920.



Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.
Claims use since about September, 1919.

Ser. No. 138,772. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Oct. 25, 1920.



Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.
Claims use since about October, 1914.

Ser. No. 138,801. (CLASS 7. CORDAGE.) ALUMINIUM-WALZWERKE A.-G., Schaffhausen, Switzerland. Filed Oct. 26, 1920.



Particular description of goods.—Rope Made of Aluminium.
Claims use since Dec. 1, 1912.

Ser. No. 138,815. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE LOOK-SEE SHOP, Washington, D. C. Filed Oct. 26, 1920.



No claim being made to the words "1623 H Street, Washington, D. C."
Particular description of goods.—Novelties in the Form of Curios, Old Prints, Embroideries, Brocades, Lacquered and Carved Wood Novelties.
Claims use since July 1, 1919.

Ser. No. 138,922. (CLASS 17. TOBACCO PRODUCTS.) S. A. REYNOLDS, Kansas City, Mo. Filed Oct. 28, 1920.



Particular description of goods.—Tobacco Products—viz., Cigars and Cigarettes.
Claims use since Oct. 20, 1920.

Ser. No. 138,924. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. W. RYCROFT & CO., New York, N. Y. Filed Oct. 28, 1920. Under ten-year proviso.

Carina Lustrine

Particular description of goods.—Cotton and Wool Dress Goods in the Piece.
Claims use since Jan. 31, 1895.

Ser. No. 139,046. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PISCEK & BRISCOE, Gallup, N. Mex. Filed Nov. 1, 1920.



Particular description of goods.—A Blood-Purifying Solution Used for Medicinal Purposes.
Claims use since Mar. 1, 1920.

Ser. No. 139,062. (CLASS 31. FILTERS AND REFRIGERATORS.) DE LA VERGNE MACHINE COMPANY, New York, N. Y. Filed Nov. 2, 1920. Under ten-year proviso.

DE LA VERGNE

Particular description of goods.—Ice-Making and Refrigerating Machinery and Parts Thereof—Namely, Ammonia-Compressors, Ammonia-Condensers, Assembling-Piping, Elbows, T's, Flanges, Gages, and Tanks, as Well as Complete Machines.
Claims use since 1881.

Ser. No. 139,120. (CLASS 17. TOBACCO PRODUCTS.) ESTATE OF HENRY B. GRATLET, Philadelphia, Pa. Filed Nov. 3, 1920.

STATE HOUSE

Particular description of goods.—Cigars.
Claims use since Jan. 17, 1876.

Ser. No. 139,183. (CLASS 17. TOBACCO PRODUCTS.) SOLOMON B. BRAFMAN, New York, N. Y. Filed Nov. 5, 1920.

LA HUMORESQUE

Particular description of goods.—Cigars.
Claims use since Oct. 21, 1920.

Ser. No. 139,215. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MINERVA MOTORS, Antwerp, Belgium. Filed Nov. 5, 1920.

MINERVA

Particular description of goods.—Automobiles and Chassis for Automobiles, Bicycles, and Aeroplanes.
Claims use since 1897.

Ser. No. 139,280. (CLASS 17. TOBACCO PRODUCTS.) JOHN C. HERMAN & COMPANY, Harrisburg, Pa. Filed Nov. 6, 1920.

KING OSCAR

Particular description of goods.—Cigars.
Claims use since Mar. 16, 1892.

Ser. No. 139,358. (CLASS 17. TOBACCO PRODUCTS.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed Nov. 8, 1920.

OLD MILL

Particular description of goods.—Smoking and Chewing Tobacco and Cigarettes.
Claims use since about 1909.

Ser. No. 139,843. (CLASS 11. INKS AND INKING MATERIALS.) BUXTON & SKINNER PRINTING AND STATIONERY COMPANY, St. Louis, Mo. Filed Nov. 19, 1920.

Cote Brilliante

Particular description of goods.—Writing-Inks, Typewriter-Ribbons, and Inking-Pads.
Claims use since January, 1893.

Ser. No. 140,032. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GUST. & H. PROBST A. G., Langnau, Switzerland. Filed Nov. 23, 1920.



The words "Marke" and "Registr" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Cheese.
Claims use since November, 1905.

Ser. No. 140,247. (CLASS 7. CORDAGE.) J. E. BARBOUR COMPANY, Paterson, N. J. Filed Nov. 27, 1920.



No claim being made to the words "Irish Flax" apart from the mark shown.
Particular description of goods.—Twines.
Claims use since July, 1915.

Ser. No. 140,408. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HENRY PAULSON, Chicago, Ill. Filed Nov. 29, 1920.

"MERITAS"

Particular description of goods.—Polishing-Buffs.
Claims use since Feb. 15, 1904.

Ser. No. 140,605. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MEDINA FRUIT PRODUCTS CO., INC., Medina, N. Y. Filed Dec. 4, 1920.

RED BAND

Particular description of goods.—Cider.
Claims use since Nov. 12, 1920.

Ser. No. 140,606. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MEDINA FRUIT PRODUCTS CO., INC., Medina, N. Y. Filed Dec. 4, 1920.

BLACK JACK

Particular description of goods.—Cider.
Claims use since Nov. 12, 1920.

Ser. No. 141,020. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PURE FOOD SPECIALTIES COMPANY, Toledo, Ohio. Filed Dec. 13, 1920.

SWEETROSE

Particular description of goods.—Oleomargarin.
Claims use since October, 1915.

Ser. No. 141,064. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONTINENTAL CANDY CORPORATION, Chicago, Ill. Filed Dec. 14, 1920.



The conventional lining is for shade only.
Particular description of goods.—Candy.
Claims use since April, 1920.

Ser. No. 141,445. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) ALBERT WIBLICH, New York, N. Y. Filed Dec. 22, 1920.



No claim is made to the exclusive use of the words "Malt Extract" and "It Works Like Magic" apart from the showing made in the drawing.
Particular description of goods.—Malt Extracts.
Claims use since Nov. 15, 1920.

Ser. No. 141,455. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DETROIT BEEF COMPANY, Detroit, Mich. Filed Dec. 23, 1920.



No claim is made to the exclusive use of the word "Brand" in the connection shown.
Particular description of goods.—Butter and Eggs.
Claims use since the 1st day of June, 1920.

Ser. No. 141,508. (CLASS 17. TOBACCO PRODUCTS.) THE ROBERT SINCLAIR TOBACCO COMPANY, LIMITED, Newcastle-on-Tyne, England. Filed Dec. 24, 1920.

TONIDES

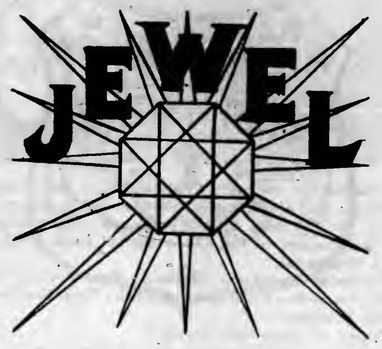
Particular description of goods.—Cigarettes and Smoking-Tobacco.
Claims use since Mar. 5, 1907.

Ser. No. 141,509. (CLASS 17. TOBACCO PRODUCTS.) THE ROBERT SINCLAIR TOBACCO COMPANY, LIMITED, Newcastle-on-Tyne, England. Filed Dec. 24, 1920.

FOURSOME

Particular description of goods.—Smoking-Tobacco.
Claims use since Feb. 13, 1907.

Ser. No. 141,616. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WADSWORTH-HOWLAND COMPANY, Chicago, Ill. Filed Dec. 28, 1920.



Particular description of goods.—Wall-Finish, Iron-Enamel, Mixed Paint, Varnish-Stain, Oil-Stain, Iron-Paint, Flat Paint, Varnish, Tub and Can Enamel, Aluminum Paint, Rim-Coating, Gun-Metal Finish, Cylinder-Enamel, Tire-Dressing, Black Auto-Enamel, White Enamel, Oil Colors, Japan Colors; Auto, Wagon, and Mill Paint; the Rim-Coating, Gun-Metal Finish, and Tire-Dressing Being in the Nature of Paints; Polish for Automobiles, Carriages, Pianos, Furniture, and Any Varnished Surface.
Claims use since 1890.

Ser. No. 141,971. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE FIBERLOID CORPORATION, Indian Orchard, Mass. Filed Jan. 8, 1921. Under ten-year proviso.

FIBERLOID

Particular description of goods.—Hand-Mirrors.
Claims use since Dec. 31, 1894.

Ser. No. 141,986. (CLASS 32. FURNITURE AND UPHOLSTERY.) HARRY R. LANGSLOW, Rochester, N. Y. Filed Jan. 8, 1921.

Buddie

Particular description of goods.—Desks.
Claims use since October, 1919.

Ser. No. 142,138. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE FAIRBANKS CO., New York, N. Y. Filed Jan. 12, 1921.



Consisting of the word "Fairbanks" in white upon an octagonal blue ground underscored by a white line and the letters "O. K." upon a white octagonal panel outlined in blue and located in the blue octagonal panel behind the word "Fairbanks."

Particular description of goods.—Steel Factory Equipment—viz., Office Furniture Comprising Desk, Shelves, and Filing Equipment.

Claims use since July 10, 1919.

Ser. No. 142,292. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MARY E. LYNN, Washington, D. C. Filed Jan. 15, 1921.

MARKAR

Particular description of goods.—Hand-Drawn Express-Wagons, Not Including Toys.

Claims use since Dec. 10, 1920.

Ser. No. 142,380. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALINALL MFG. CO., Worcester, Mass. Filed Jan. 18, 1921.

CRAFTCOAT

Particular description of goods.—Interior-Wall Glazing and Coloring.

Claims use since Jan. 1, 1915.

Ser. No. 142,382. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRANK BOWNES COMPANY INC., Lynn, Mass. Filed Jan. 18, 1921.



No claim being made to the words "Paint Products" apart from the mark shown in the drawing.

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints.

Claims use since Dec. 1, 1920.

Ser. No. 142,450. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PEARL CITY FRUIT COMPANY, LIMITED, Honolulu, Territory of Hawaii. Filed Jan. 19, 1921.

LIQUOR OF GOLD

"Liquor of Gold."

Particular description of goods.—A Non-Intoxicating, Maltless, Non-Cereal Beverage Containing Less Than One-Half of One Per Cent. Alcohol, by Volume, Sold as a Soft Drink.

Claims use since Aug. 4, 1919.

Ser. No. 142,626. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ROBERT E. LEYENDECKER, New York, N. Y., assignor to The Arabo Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 22, 1921.

NOCOOK-HOMALT

Particular description of goods.—An Extract of Hops and Malt for Preparing Soft Drinks.

Claims use since Aug. 10, 1920.

Ser. No. 142,772. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES W. BURGOON, Bowling Green, Ohio. Filed Jan. 26, 1921.

C. W. Burgoon
—TRADE MARK—

The trade-mark shown in the drawing is a facsimile of applicant's signature. The words "Trade-Mark" appearing in the drawing are disclaimed.

Particular description of goods.—An Alterative Syrup, Catarrh Solution, Cough-Syrup; Medicinal Preparations for Coughs, Colds, Sore Throat, Hoarseness, Croup, Burns, and Irritated Surfaces, and a Medicinal Preparation for the Stomach and Bowels.

Claims use since Apr. 4, 1913.

Ser. No. 142,776. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) COCA COLA BOTTLING DISTRIBUTING CO., Los Angeles, Calif. Filed Jan. 26, 1921.

BINGO

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Oct. 1, 1920.

Ser. No. 142,807. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) V. OTIS ROBERTSON, Boston, Mass. Filed Jan. 26, 1921.



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since March, 1917.

Ser. No. 142,877. (CLASS 12. CONSTRUCTION MATERIALS.) ALBERT ERNEST HORATIO DUSSEK, London, England. Filed Jan. 28, 1921.

PLASPHALT

Particular description of goods.—For Construction Materials Made of Bituminous Waterproof Material, Especially for the Repair and Construction of Walls, Buildings, and Roads.

Claims use since Jan. 1, 1920.

Ser. No. 143,000. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EUGENE R. ODEN, San Francisco, Calif. Filed Jan. 31, 1921.

ODENITE

Particular description of goods.—Ready-Mixed Paint and Liquid Waterproof Coatings of a Paintlike Nature.

Claims use since Jan. 15, 1914.

Ser. No. 143,112. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WANDELL CHOCOLATE COMPANY, INC., Baltimore, Md. Filed Feb. 2, 1921.



No claim is made to the descriptive phrase "Splendide Chocolate Varieties" apart from the other features of the mark shown on the drawing.

Particular description of goods.—Candy, Chocolate-Covered Nuts, Nougat, Caramels, Cream Chocolates, Nuts in Cream, Chocolate-Covered Liquid Cordial Cherries and other Liquid Cordial Fruits, Italian Creams, Bonbons, and Assortments of the Above Varieties.

Claims use since Mar. 21, 1920.

Ser. No. 143,256. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CITIZEN'S WHOLESALE SUPPLY CO., Columbus, Ohio. Filed Feb. 7, 1921.



No claim is made for the words "Trade Mark" appearing in the drawing.

Particular description of goods.—Aqua-Ammonia, Dry Ammonia, Laundry-Ammonia, Lye, Sanitary Powder, Compound Oils of Cedar, Copperas, Creosol Solution, Ammonia-Muriate Tablets, Chlorate-Potash Tablets, Glycerin-Thymol-Menthol Solution, Menthelated Compound, Neutralizing Digestive Tablets, Syrup White Pine and Tar Compound; Beef, Iron, and Wine; Blood-Purifier, Camphor-Oil, Pure Castor-Oil, Aromatic Castor-Oil, Charcoal Lozenges, Corn Remedy, Iron Tonic, Honey and Pine, Laxative Pills, Laxative Quinin Pills; Liniment (a Preparation for Sprains, Dislocations, Bruises, Rheumatism, Stiffness, Cuts, Swellings, Neuralgia, Frost-Bites, Insect-Stings, Sore Throat, and Cold in Chest;) Liquid Antiseptic, Liquid Court-Plaster, Rheumatic Compound, Soda-Mint Tablets, Spirits Camphor; Glycerin, Pure; Boracic Acid, White Mineral Oil, (a Laxative Oil,) Rouge and Bedbug Compound, Bath-Powder, Camphor-Ice, Foot-Base, (a Powder for the Feet,) Glycerin and Rose Water, Hazel Cream, (a Face-Cream,) Lilac Salts, Perspiration-Deodorant, Tooth-Paste, Bitings, Beeswax, Laundry-Starch, Liquid Dentifrice, Violet Witch-Hazel, Witch-Hazel, Water-Glass, Sulfur, Sal-Soda, Ink and Rust Soap, (an Ink and Rust Remover in Soap Form.)

Claims use since Nov. 10, 1886.

Ser. No. 143,482. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PETER E. BARNETT, Chicago, Ill. Filed Feb. 12, 1921.



No claim being made to the use of the words "Barnett's Grape Fizz Sirup" except in connection with the mark shown in the drawing.

Particular description of goods.—A Non-Alcoholic, Maltless, Artificial Grape Beverage Sold as a Soft Drink and Syrup for Making the Same.

Claims use since May 1, 19

Ser. No. 143,618. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RUBYHILL VINEYARD CO., Pleasanton, Calif. Filed Feb. 15, 1921.

Ruby Hill

Particular description of goods.—Grape-Juice Containing Less Than One-Half of One Per Cent. Alcohol, by Volume, Sold as a Soft Drink.
Claims use since Jan. 21, 1921.

Ser. No. 143,684. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CAPITOL PAINT & VARNISH COMPANY, Washington, Pa., and Canton, Ohio. Filed Feb. 17, 1921.

VEL-TEX
THE PAINT WITH THE VELVET TEXTURE

No claim being made to the words "The Paint with the Velvet Texture" apart from the mark shown in the drawings.
Particular description of goods.—Flat Wall-Paint.
Claims use since 1903.

Ser. No. 143,716. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SAILORS AND LAMB COMPANY, Cleveland, Ohio. Filed Feb. 17, 1921.

ESS-ELL

Particular description of goods.—Prepared Paints, Varnishes, and Paint Enamels.
Claims use since Jan. 11, 1921.

Ser. No. 143,717. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SAILORS AND LAMB COMPANY, Cleveland, Ohio. Filed Feb. 17, 1921.



Particular description of goods.—Painters' Supplies, Prepared Paints, Varnishes, and Paint Enamels.
Claims use since Jan. 11, 1921.

Ser. No. 143,736. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BASSICK MANUFACTURING CO., Chicago, Ill. Filed Feb. 18, 1921.

ALEMITE

Particular description of goods.—Devices for Applying Lubricant, Lubricant-Dispensers, Lubricant-Compressors, Grease-Guns, Flexible Conduits for Lubricant-Applying Devices, Nipples and Fittings to be Secured to Mechanism to be Lubricated, and Coupling Devices for Connection with Such Nipples and Fittings.
Claims use since May, 1918.

Ser. No. 143,786. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) RICHMOND BROOM COMPANY, INC., Richmond, Va. Filed Feb. 18, 1921.



Particular description of goods.—Brooms.
Claims use since on or about Nov. 29, 1920.

Ser. No. 143,863. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. C. HUYCK & SONS, Albany, N. Y. Filed Feb. 21, 1921.

KENWOOD CLOTH

No claim being made to the word "Cloth" apart from the mark shown in the drawing.
Under section 9 of act of Mar. 19, 1920.
Particular description of goods.—Woolen Piece Goods, Suitings, and Overcoating of Textile Fabric.
Claims use since about Jan. 1, 1920.

Ser. No. 143,970. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) VALDOSTA RETORT CO., Valdosta, Ga. Filed Feb. 23, 1921.

LIFOPINE

Particular description of goods.—A Pine-Oil Prepared and Colored for Use as a Wood Stain and Preservative.
Claims use since Sept. 1, 1920.

Ser. No. 144,025. (CLASS 12. CONSTRUCTION MATERIALS.) THE KIMBALL COMPANY, Philadelphia, Pa. Filed Feb. 25, 1921.



The words "Stop a Leak, Cheapest and Best, Proven by Test, Pipe Thread and Gasket Compound" and the representation of a can containing the goods are hereby disclaimed except in combination with the mark shown.
Particular description of goods.—Pipe Thread and Gasket Compound.
Claims use since July 20, 1919.

Ser. No. 144,137. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE GUNN FURNITURE COMPANY, Grand Rapids, Mich. Filed Feb. 28, 1921.

"LINO"

Particular description of goods.—Desks.
Claims use since on or about June 1, 1920.

Ser. No. 144,241. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN H. MARGOSIAN, Milford, Mass. Filed Mar. 2, 1921.

AMASIA



The picture being that of the applicant.
Particular description of goods.—A Medicinal Preparation in the Form of Pills for Treatment of Ailments Resulting from Unnatural Discharges of Mucous Membranes.
Claims use since Nov. 1, 1920.

Ser. No. 144,285. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HATELY BROTHERS COMPANY, Chicago, Ill. Filed Mar. 3, 1921.

Invincible

Particular description of goods.—Hams, Bacon, and Lard.
Claims use since June 9, 1920.

Ser. No. 144,437. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RUDOLPH THEINER, Chicago, Ill. Filed Mar. 7, 1921.

RADIAN

Particular description of goods.—Salve for Eczema, Bleeding and Itching Piles, Chapped Skin, Insect-Bites, Carbuncles, Boils, Lameness, Sunburn, Inflammation, and Abrasions of the Skin.
Claims use since July 1, 1914.

Ser. No. 144,453. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHANNELL CHEMICAL COMPANY, Chicago, Ill.; Toronto, Canada; London, England, and Paris, France. Filed Mar. 8, 1921.



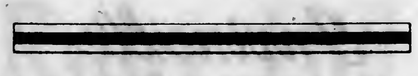
Particular description of goods.—A Polish for Cleaning and Polishing Furniture, Floors, Linoleums, Pianos, Autos, &c.
Claims use since Oct. 1, 1920.

Ser. No. 144,454. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHANNELL CHEMICAL COMPANY, Chicago, Ill.; Toronto, Canada; London, England, and Paris, France. Filed Mar. 8, 1921

Use O-Cedar Polish
The O-Cedar Polish Way

No claim is made herein to the word "Polish" apart from the mark shown on the drawing.
Particular description of goods.—A Polish for Cleaning and Polishing Furniture, Floors, Linoleum, Pianos, Autos, &c.
Claims use since Oct. 1, 1920.

Ser. No. 144,469. (CLASS 12. CONSTRUCTION MATERIALS.) NIAGARA WALL BOARD COMPANY INCORPORATED, Buffalo, N. Y. Filed Mar. 8, 1921.



No claim is made to the representation of the board shown in the drawing. A stock of red color used in the manufacture of the board, the red stock being arranged in the interior of the board.

Particular description of goods.—Wall-Board and Sheathing-Board.

Claims use since July 1, 1919.

Ser. No. 144,528. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAUD C. MOORE, San Francisco, Calif. Filed Mar. 9, 1921.

TO HAVE
POWDERZON
TO HOLD

Particular description of goods.—Toilet Cream.

Claims use since Mar. 1, 1920.

Ser. No. 144,741. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PATEK BROTHERS, Milwaukee, Wis. Filed Mar. 14, 1921.

WHITE ROCK

Particular description of goods.—Paint Enamels.

Claims use since about Sept. 1, 1908.

Ser. No. 144,819. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EDWARD K. LINCOLN, New York, N. Y. Filed Mar. 16, 1921.



Particular description of goods.—Auto-Varnish; Auto Dri Mist, (a Polish;) Cedar Floor-Polish; Duck Back Wax, (a Polish;) Paint, Ready Mixed.

Claims use since Nov. 15, 1918.

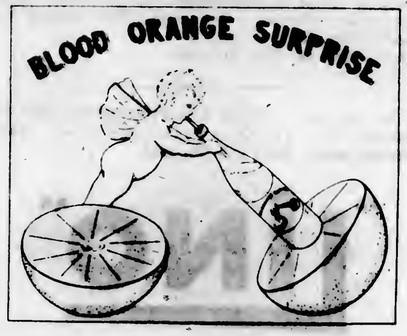
Ser. No. 144,832. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HARRY H. NELSON, Elmira, N. Y. Filed Mar. 16, 1921.

WHISPER

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Dec. 1, 1920.

Ser. No. 144,834. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ORANGE SURPRISE SYRUP & BOTTLING CO., Morristown, N. J. Filed Mar. 16, 1921.



No claim being made to the words "Blood Orange" apart from the mark shown on the drawing.

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Oct. 4, 1920.

Ser. No. 144,846. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH BRUECK, New York, N. Y. Filed Mar. 17, 1921.

GLOSSINE

Particular description of goods.—Nail-Polish.

Claims use since Jan. 3, 1920.

Ser. No. 144,916. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES ENEW JOHNSON & COMPANY, Philadelphia, Pa. Filed Mar. 18, 1921.

NOX-INK

Particular description of goods.—Chemical Compound for Removing Ink from Printing-Rolls, Ink-Plates, Type, &c.

Claims use since about June 1, 1919.

Ser. No. 145,061. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. V. GIACONI & Co., Long Beach, Calif. Filed Mar. 22, 1921.

GOLDEN CROSS

Particular description of goods.—Canned Fish.

Claims use since Jan. 23, 1921.

Ser. No. 145,093. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) THE R. WALLACE & SONS MFG. CO., Wallingford, Conn. Filed Mar. 22, 1921.

W ALPACCA 33

No claim being made to the word "Alpacca" apart from the mark shown in the drawing.

Particular description of goods.—German-Silver Flat-Ware—Namely, Knives, Forks, Spoons, Ladles, Tongs, Servers, Shears, Bottle-Openers, Nutcrackers, and Salad Sets.

Claims use since Mar. 7, 1921.

Ser. No. 145,114. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MIRACLE POLISH COMPANY, Akron, Ohio. Filed Mar. 23, 1921.



The word "Polish" is hereby disclaimed apart from the mark shown.

Particular description of goods.—A Furniture-Polish.

Claims use since Mar. 1, 1921.

Ser. No. 145,140. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BASS-HUSTER PAINT CO., San Francisco, Calif. Filed Mar. 24, 1921.

B·H

Particular description of goods.—Paste and Ready-Mixed Paints, Varnishes, and Stains.

Claims use since January, 1898.

Ser. No. 145,241. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed Mar. 25, 1921.

TEXALENE

Particular description of goods.—Turpentine Substitute.

Claims use since Nov. 20, 1912.

Ser. No. 145,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. ZUERCHER, Brodhead, Wis. Filed Mar. 30, 1921.

Cremos

Particular description of goods.—Cheese.

Claims use since Feb. 17, 1921.

Ser. No. 145,548. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMERCIAL CREAMERY COMPANY, Spokane, Wash. Filed Apr. 1, 1921.

MILKOLAC

Particular description of goods.—Condensed Buttermilk.

Claims use since Mar. 1, 1920.

Ser. No. 145,600. (CLASS 37. PAPER AND STATIONERY.) WHITING PAPER COMPANY, Holyoke, Mass. Filed Apr. 1, 1921. Under ten-year proviso.

COLUMBIA

Particular description of goods.—Index and Bristol Boards.

Claims use since the year 1894.

Ser. No. 145,664. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Apr. 2, 1921.

MARBLE RING

Particular description of goods.—Cake.

Claims use since Mar. 17, 1921.

Ser. No. 145,667. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) MARTIN BROCK & AUGUST B. PRAETSCH, Jamaica Plain, Mass. Filed Apr. 4, 1921.

HERVA

Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.

Claims use since Feb. 26, 1921.

Ser. No. 145,683. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GROCERS BAKING COMPANY, INCORPORATED, Louisville, Ky. Filed Apr. 4, 1921.



The picture being fanciful, and "Plymouth Cake" being disclaimed apart from the mark shown.

Particular description of goods.—Loaf-Cake.

Claims use since Jan. 2, 1921.

Ser. No. 145,700. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) D. E. MCMILLAN & BRO., Chicago, Ill. Filed Apr. 4, 1921.

SINCERITY

Particular description of goods.—Coal.

Claims use since Oct. 31, 1912.

Ser. No. 145,721. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRY STAHL, Seattle, Wash. Filed Apr. 4, 1921.



No claim is made to the exclusive use of the words "Harry Stahl's" apart from the mark as shown.

Particular description of goods.—Bread, Biscuits, and Cakes.

Claims use since Mar. 10, 1921.

Ser. No. 145,737. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS BERLIN, New York, N. Y. Filed Apr. 5, 1921.

BISIN

Particular description of goods.—A Medicinal Preparation for the Treatment of Dyspepsia and Indigestion.

Claims use since January, 1919.

Ser. No. 145,749. (CLASS 39. CLOTHING.) THE JOFFE-FOSTER CO., INC., Philadelphia, Pa. Filed Apr. 5, 1921.

FASHIONBILT CLOTHES

No claim is made to the word "Clothes" apart from the mark as shown.

Particular description of goods.—Men's and Boys' Overcoats, Suits, Coats, Waistcoats, and Trousers.

Claims use since Feb. 15, 1921.

Ser. No. 145,756. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SERVICE CORP., Bakersfield, Calif. Filed Apr. 5, 1921.

DIAMOND HEAD

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks.

Claims use since the month of April, 1920.

Ser. No. 145,757. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SERVICE CORP., Bakersfield, Calif. Filed Apr. 5, 1921.

Wee-Jee

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks.

Claims use since during the month of April, 1920.

Ser. No. 145,772. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) EDW. DIEHL, Nashville, Tenn. Filed Apr. 6, 1921.

Edw. Diehl's
Catawba-Crash

No claim being made to the word "Catawba," and the signature appearing in the drawing being a facsimile of applicant's signature.

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Jan. 15, 1920.

Ser. No. 145,804. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE HENRY G. THOMPSON & SON COMPANY, New Haven, Conn. Filed Apr. 6, 1921.

Mil Flex

Particular description of goods.—Hacksaw-Blades.

Claims use since Mar. 1, 1916.

Ser. No. 145,913. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RAY C. PLANT, Minneapolis, Minn. Filed Apr. 8, 1921.

Ree-Di-Con

The words "Reflection, Diffusion, Concentration" are disclaimed apart from the mark shown in the drawings.

Particular description of goods.—Electric-Lighting Fixtures.

Claims use since Sept. 16, 1919.

Ser. No. 146,022. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E. F. MCDONALD, Jr., Chicago, Ill. Filed Apr. 11, 1921.

Vi-tame

Particular description of goods.—Yeast.

Claims use since about the 4th of March, 1921.

Ser. No. 146,053. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WICHITA FLOUR MILLS CO., Wichita, Kans. Filed Apr. 11, 1921.

EL SUPERIOR

We hereby disclaim exclusive use of the words "El Superior" apart from the mark shown.

Particular description of goods.—Wheat-Flour.

Claims use since July, 1914.

Ser. No. 146,110. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CALIFORNIA PAINT COMPANY, Oakland, Calif. Filed Apr. 13, 1921. Under ten-year proviso.

PREMO

Particular description of goods.—Mixed and Dry Paint, Stains, Varnishes, Paint Enamels, Colors in Oil, Colors in Japan, Colors in Distemper, Bronzing Liquids.

Claims use since 1875.

Ser. No. 146,111. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CALIFORNIA PAINT COMPANY, Oakland, Calif. Filed Apr. 13, 1921. Under ten-year proviso.

AVERILL

Particular description of goods.—Mixed and Dry Paint, Stains, Varnishes, Paint Enamels, Colors in Oil, Colors in Japan, Colors in Distemper, Bronzing Liquids.

Claims use since 1865.

Ser. No. 146,113. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) DOMESTIC MANUFACTURING CO., Seattle, Wash. Filed Apr. 13, 1921.

Electric Maid

Particular description of goods.—Electric Ironers.

Claims use since Nov. 1, 1920.

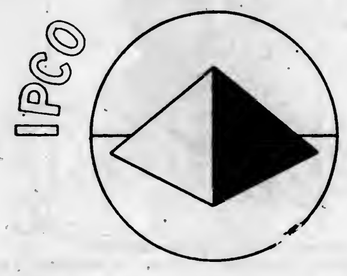
Ser. No. 146,247. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE BRYANT ELECTRIC COMPANY, Bridgeport, Conn. Filed Apr. 16, 1921.

Bryloch

Particular description of goods.—Electric-Lamp Sockets and Receptacles.

Claims use since Mar. 22, 1921.

Ser. No. 146,250. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE INDUSTRIAL PAINT COMPANY, Milwaukee, Wis. Filed Apr. 16, 1921.



Particular description of goods.—Ready-Mixed Paint.

Claims use since Feb. 1, 1921.

Ser. No. 146,275. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAXONY MILLS, St. Louis, Mo. Filed Apr. 16, 1921.

SOUTHERN BELLE

Particular description of goods.—Wheat-Flour.
Claims use since May 20, 1891.

Ser. No. 146,310. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GERBER COMPANY, Baltimore, Md. Filed Apr. 18, 1921.



No claim being made to the words "Master of Them All" appearing in the drawing.
Particular description of goods.—Candy.
Claims use since Feb. 1, 1921.

Ser. No. 146,334. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE A. I. ROOT COMPANY, Medina, Ohio. Filed Apr. 18, 1921.

MED-O-BEE

Particular description of goods.—Honey.
Claims use since Apr. 1, 1921.

Ser. No. 146,399. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALVINA SCHUTT, Marinette, Wis. Filed Apr. 19, 1921.



The portrait is that of the applicant.
Particular description of goods.—A Medicinal Preparation for Use in Tuberculosis, Coughs, Colds, and All Bronchial and Lung Affections.
Claims use since Apr. 4, 1921.

Ser. No. 146,411. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. & J. COLMAN, LIMITED, Norwich and London, England. Filed Apr. 20, 1921.



No claim is made to the words "The New Appetiser," "Delicious Flavour," "Delicate Aroma," "Manufactured by," "London & Norwich," and "This celebrated appetiser, excellent for fish and all kinds of grilled meats, and greatly improving the flavour of salad dressings, mayonnaise sauce, etc., is specially prepared by J. & J. Colman, Limited, London, for export markets, and is manufactured with the finest ingredients obtainable, in conjunction with their renowned D. S. F. mustard," and "185 Grammes Net, 6½-ozs. Net," apart from the mark shown in the drawing.
Particular description of goods.—A Preparation of Mustard Forming a Relish Condiment or Sauce.
Claims use since July, 1913.

Ser. No. 146,412. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. & J. COLMAN, LIMITED, Norwich and London, England. Filed Apr. 20, 1921.



No claim is made to the words "Manufactured by" and "London & Norwich" apart from the mark shown in the drawing.
Particular description of goods.—A Preparation of Mustard Forming a Relish Condiment or Sauce.
Claims use since July, 1913.

Ser. No. 146,428. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULES FEROND COMPANY, INC., New York, N. Y. Filed Apr. 20, 1921.

Jules Ferond

Simulating the handwriting of its president, Jules Ferond.
Particular description of goods.—Hair Grower and Tonic.
Claims use since July 31, 1919.

Ser. No. 146,457. (CLASS 37. PAPER AND STATIONERY.) NATIONAL CHECKING COMPANY, St. Paul, Minn. Filed Apr. 20, 1921.

NACHECO

Particular description of goods.—Correspondence-Envelops.
Claims use since May 16, 1918.

Ser. No. 146,459. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NAVAJO LABORATORIES, INC., Casper, Wyo. Filed Apr. 20, 1921.

NAVAJO

Particular description of goods.—An Automobile-Polish.
Claims use since Nov. 15, 1920.

Ser. No. 146,475. (CLASS 37. PAPER AND STATIONERY.) WAXED PRODUCTS COMPANY, INC., Brooklyn, N. Y. Filed Apr. 20, 1921.



FRESH PACK

Particular description of goods.—Waxed Paper.
Claims use since Jan. 10, 1921.

Ser. No. 146,520. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JAMES R. COUNCIL, Norfolk, Va. Filed Apr. 22, 1921.

TENPENNY

Particular description of goods.—Peanut-Brittle.
Claims use since Jan. 1, 1921.

Ser. No. 146,555. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDIANA INDESTRUCTIBLE PAINT CO., Chicago, Ill. Filed Apr. 22, 1921.

SUN RAY

Particular description of goods.—Dry, Ready-Mixed, and Paste Paint.
Claims use since July 1, 1911.

Ser. No. 146,585. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) OREGON GROWERS CO-OPERATIVE ASSN., Salem, Oreg. Filed Apr. 22, 1921.

TRUWEST

Particular description of goods.—Maltless, Non-Alcoholic, Non-Cereal Beverages Sold as Soft Drinks—Namely, Loganberry-Juice, Grape-Juice, and Cider.
Claims use since Feb. 1, 1921.

Ser. No. 146,588. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) OREGON GROWERS CO-OPERATIVE ASSN., Salem, Oreg. Filed Apr. 22, 1921.

Mistland

Particular description of goods.—Maltless, Non-Alcoholic, Non-Cereal Beverages Sold as Soft Drinks—Namely, Loganberry-Juice, Grape-Juice, and Cider.
Claims use since Feb. 21, 1921.

Ser. No. 146,606. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRED WOLFERMAN GOOD THINGS TO EAT CO., Kansas City, Mo. Filed Apr. 22, 1921.

Parrco

Particular description of goods.—Coffee.
Claims use since the year 1900.

Ser. No. 146,617. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE ALEXANDRE WORKS, INC., Garden City, N. Y. Filed Apr. 23, 1921.



The shading shown in said drawing being intended to indicate red. The words "Garden City, Long Island," and the words "American Broad Tail A. B. Lam" are hereby disclaimed apart from the mark as shown in the drawing.

Particular description of goods.—Fur-Skins.

Claims use since Mar. 1, 1921.

Ser. No. 146,704. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FRENCH BATTERY & CARBON CO., Madison, Wis. Filed Apr. 25, 1921.

RAY-O-VAC

Particular description of goods.—Dry-Cell Batteries.

Claims use since about Apr. 1, 1921.

Ser. No. 146,730. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ORIUM COMPANY, St. Louis, Mo. Filed Apr. 25, 1921.

Glosaire

Particular description of goods.—A Preparation for the Treatment of the Scalp and for the Prevention of Dandruff and Falling Hair.

Claims use since about Mar. 26, 1921.

Ser. No. 146,743. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y. Filed Apr. 25, 1921.

OKOL

Particular description of goods.—Disinfectants, Insecticides, and Deodorants.

Claims use since Sept. 1, 1910.

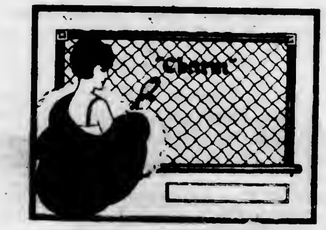
Ser. No. 146,744. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SANITAS COMPANY, INC., Jersey City, N. J., and Brooklyn, N. Y. Filed Apr. 25, 1921.

BACTOX

Particular description of goods.—Disinfectants, Insecticides, and Deodorants.

Claims use since Jan. 2, 1913.

Ser. No. 146,789. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. BLECHMAN & SONS, INC., New York, N. Y. Filed Apr. 27, 1921.



No claim being made to the representation of the hair-net apart from the mark shown, the picture being fanciful.

Particular description of goods.—Hair-Nets.

Claims use since Jan. 1, 1921.

Ser. No. 146,845. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE PIRIKA CHOCOLATE CO., INC., Brooklyn, N. Y. Filed Apr. 27, 1921.



No claim being made to the exclusive use of the words "Sweet Milk Chocolate, Manufactured from Pure Fresh Milk, Sugar and Highest Grade Blend of Cocoa 1 Lb. Net."

Particular description of goods.—Prepared Chocolate.

Claims use since Sept. 1, 1920.

Ser. No. 146,846. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) REGAL MANUFACTURING CO., Kansas City, Mo. Filed Apr. 27, 1921.



Particular description of goods.—Insect-Powder.

Claims use since Aug. 1, 1920.

Ser. No. 146,903. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.



Applicant does not claim herein the exclusive right to the use of the words "Double Cable Base" apart from the mark shown on the drawing.

Particular description of goods.—Vehicle-Tires Made Wholly or Partly of Rubber.

Claims use since Mar. 11, 1915.

Ser. No. 146,904. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.



Applicant does not claim herein the exclusive right to the use of the words "Multi-Cable Base" apart from the mark shown on the drawing.

Particular description of goods.—Vehicle-Tires Made Wholly or Partly of Rubber.

Claims use since Mar. 1, 1920.

Ser. No. 146,911. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTOR HALPER, New York, N. Y. Filed Apr. 28, 1921.

Terogon

Particular description of goods.—A Medicinal Preparation to be Taken Internally for the Treatment of Gonorrhea.

Claims use since October, 1920.

Ser. No. 146,945. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ACME BEVERAGE-EXTRACT CO., Chicago, Ill. Filed Apr. 29, 1921.

Rotum's
TRUE FRUIT
GRAPE-SNAP

No claim being made to the words "True Fruit" apart from the mark as shown.

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.

Claims use since Mar. 1, 1916.

Ser. No. 146,962. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE R. T. FRENCH COMPANY, Rochester, N. Y. Filed Apr. 29, 1921.

MADELON

Particular description of goods.—Face-Powder.

Claims use since Jan. 21, 1921.

Ser. No. 146,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDEAL DISINFECTANT COMPANY, Newark, N. J., and New York, N. Y. Filed Apr. 29, 1921.

VOLTILE

Particular description of goods.—Undertakers' Disinfectant and Deodorant Powders.

Claims use since May 1, 1919.

Ser. No. 146,974. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MAGGI CO., Kempttal, Switzerland. Filed Apr. 29, 1921.



Particular description of goods.—Seasonings in Solid and Liquid Form for Improving Soups, Sauces, Gravies, and other Dishes; Soups, Consommé, Bouillon, Sauces, and Gravies in Solid and Liquid Form.

Claims use since about June 8, 1898.

Ser. No. 146,975. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MAGGI CO., Kemptthal, Switzerland. Filed Apr. 29, 1921.

CROSS-STAR

Particular description of goods.—Seasonings in Solid and Liquid Form for Improving Soups, Sauces, Gravies, and other Dishes; Soups, Consommé, Bouillon, Sauces, and Gravies in Solid and Liquid Form.
Claims use since about June 8, 1898.

Ser. No. 147,028. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IDA M. KREBS, San Francisco, Calif. Filed Apr. 30, 1921.



Particular description of goods.—Cough-Drops.
Claims use since Sept. 15, 1920.

Ser. No. 147,041. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JACOB S. NEIDICH, Yonkers, N. Y. Filed Apr. 30, 1921.

Dragon

Particular description of goods.—Storage Batteries.
Claims use since Apr. 20, 1921.

Ser. No. 147,044. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE N. PAPPAS, Washington, D. C. Filed Apr. 30, 1921.

CAL-IN-FOR-N-A

The word "Delicious" is disclaimed apart from the mark.
Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Apr. 15, 1921.

Ser. No. 147,089. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHICAGO VITREOUS ENAMEL PRODUCT COMPANY, Cicero, Ill. Filed May 2, 1921.



No claim is made to the exclusive use of the word "Enamels" apart from the mark shown in the drawing.
Particular description of goods.—Vitreous or Porcelain Enamel to be Baked on Metal Ware.
Claims use since Feb. 15, 1921.

Ser. No. 147,147. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed May 2, 1921.

NATWIRE

Particular description of goods.—Bottle and Jar Openers, Egg Whips and Beaters, Flour-Sifters, Fruit-Pickers, Kitchen Forks and Spoons, Parers, Potato and Vegetable Mashers, and Rug-Beaters.
Claims use since 1908.

Ser. No. 147,153. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CALIFORNIA FIBRE COMPANY, San Francisco, Calif. Filed May 2, 1921.

AMERLIN

Particular description of goods.—A Vegetable Fiber to be Used in the Manufacture of Brocades, Damasks, Tapestries, Plushes, Velvets, Linens, Pongees, Yarns, Handkerchiefs, Velveteens, Hosiery, Sheetings, Threads, Rope, Hose, Beltings, Cloths, Toweling, Netting, and Canvases.
Claims use since Dec. 1, 1920.

Ser. No. 147,163. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed May 3, 1921.

Century

Particular description of goods.—Shade-Cloth.
Claims use since about Aug. 15, 1915.

Ser. No. 147,194. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ALLMAN GAS ENGINE AND MACHINE CO., New York, N. Y. Filed May 4, 1921.

CHAMPION

Particular description of goods.—Ice-Cream Machines, Ice-Breaking Machines, Lathe-Tool Holders, and Brine-Machines.
Claims use since the year 1897.

Ser. No. 147,202. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LANGLEY & MICHAELS COMPANY, San Francisco, Calif. Filed May 4, 1921.

CALA
HYDROL

Particular description of goods.—An Intestinal Lubricant.
Claims use since Jan. 17, 1917.

Ser. No. 147,204. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORTON SUNDOUR FABRICS LD., Dentonhill, Carlisle, England. Filed May 4, 1921.

LAUNDOUR

Particular description of goods.—Table-Cloths, Serviettes, Cushion-Covers, Handkerchiefs, Sideboard-Covers, Duchess Sets, Table-Centers, Antimacassars, Night-Dress Cases, Chair-Covers, Pillow-Cases, Perambulator-Covers, Sheets, Bedspreads, Towels, Altar-Cloths, All Being Goods Composed Wholly or Mainly of Cotton Not in the Piece.
Claims use since Mar. 9, 1920.

Ser. No. 147,206. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MORTON SUNDOUR FABRICS LD., Dentonhill, Carlisle, England. Filed May 4, 1921.

LAUNDOUR

Particular description of goods.—Linen and Hemp Piece Goods; Silk Piece Goods; Cloths and Stuffs of Wool or Worsted, as Piece Goods; Woolen and Worsted Piece Goods, and Carpets and Mats, Matting, and Rugs, (in the Nature of Carpets.)
Claims use since the 9th of March, 1920.

Ser. No. 147,300. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) POLLARD MACHINERY COMPANY, INCORPORATED, Niagara Falls, N. Y. Filed May 5, 1921.

CARBOJOINTER

Particular description of goods.—Stone-Cutting Machines.
Claims use since Apr. 8, 1921.

Ser. No. 147,262. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) G. SIDENBERG & CO., New York, N. Y. Filed May 5, 1921.



Particular description of goods.—Muslins and Cotton Piece Goods.
Claims use since the year 1895.

Ser. No. 147,276. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BLUE, Laurinburg, N. C. Filed May 6, 1921.

REX

Particular description of goods.—A Fertiliser-Distributer.
Claims use since Jan. 1, 1905.

Ser. No. 147,301. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MONMOUTH COUNTY FARMERS EXCHANGE, Freehold, N. J. Filed May 6, 1921.



Particular description of goods.—Potatoes, (Bagged in their Natural State.)
Claims use since May 15, 1908.

Ser. No. 147,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MORRELL & COMPANY, Ottumwa, Iowa. Filed May 7, 1921.



Particular description of goods.—Bacon.
Claims use since Sept. 10, 1910.

Ser. No. 147,392. (CLASS 12. CONSTRUCTION MATERIALS.) ACME BRICK COMPANY, Fort Worth, Tex. Filed May 9, 1921.

ACME

Particular description of goods.—Bricks and Drainage-Tiles.
Claims use since the year 1891.

Ser. No. 147,401. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BISHOP & COMPANY, Los Angeles, Calif. Filed May 9, 1921.

HIGH SCHOOL

Particular description of goods.—Chocolate in Cake Form for Eating Purposes.
Claims use since about Jan. 1, 1916.

Ser. No. 147,404. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FRANK BIGGIO & SONS, Chicago, Ill. Filed May 9, 1921.

OUR PRIDE
B

Particular description of goods.—Fresh Tomatoes.
Claims use since Feb. 15, 1921.

Ser. No. 147,410. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE COLBY CONFECTIONERY COMPANY, INC., Los Angeles, Calif. Filed May 9, 1921.

SUNSET

Particular description of goods.—Marshmallow Crême.
Claims use since May 1, 1919.

Ser. No. 147,468. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MAX SCHUCKL, San Francisco, Calif. Filed May 9, 1921.

Black Knight



Particular description of goods.—Canned Fruits and Canned Vegetables.
Claims use since Jan. 23, 1920.

Ser. No. 147,482. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) UNITED DAIRY ASSOCIATION OF WASHINGTON, Seattle, Wash. Filed May 9, 1921.

DARIGOLD

Particular description of goods.—Evaporated Milk, Ice-Cream, and Powdered Milk.
Claims use on powdered milk since Dec. 4, 1920; on ice-cream since Jan. 5, 1921, and on evaporated milk since Mar. 4, 1921.

Ser. No. 147,487. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAYCIDE CHEMICAL CORPORATION, Birmingham, Ala. Filed May 9, 1921.

BLACK DEATH

Particular description of goods.—An Insecticide.
Claims use since Mar. 1, 1918.

Ser. No. 147,488. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAYCIDE CHEMICAL CORPORATION, Birmingham, Ala. Filed May 9, 1921.

VAPORKIL

Particular description of goods.—An Insecticide.
Claims use since June of 1920.

Ser. No. 147,569. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAPPIN & WEBB LIMITED, London and Sheffield, England. Filed May 11, 1921.

TUSCA

Particular description of goods.—Handles for Knives and Forks for Table Use.
Claims use since the 18th of November, 1907.

Ser. No. 147,571. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PREMIER MACHINERY COMPANY, San Francisco, Calif. Filed May 11, 1921.



Particular description of goods.—Fruit and Vegetable Peelers, Fruit and Vegetable Washers, Fruit and Vegetable Slicers, Exhaust-Boxes, Fruit-Graders, Can-Filling Machines, Syrupers, Can and Bottle Closing Machines, Box-Mailing Machines, Box and Shook Printing Machines, and Conveyers.
Claims use since June, 1916.

Ser. No. 147,598. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CALIFORNIA SPRAYER COMPANY, Los Angeles, Calif. Filed May 12, 1921.

AMERICAN BEAUTY

Particular description of goods.—Dust-Sprayers for Spraying Insecticide and Fungicide on All Kinds of Vegetation.
Claims use since July 16, 1917.

Ser. No. 147,643. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WILLIAM L. SANDAGE, Indianapolis, Ind. Filed May 12, 1911.

VICTOR

Particular description of goods.—Bearings.
Claims use since August, 1920.

Ser. No. 147,726. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATHAN U. KATZ, Camden, N. J. Filed May 14, 1921.



Katz's

Particular description of goods.—Candies.
Claims use since July, 1920.

Ser. No. 147,747. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAFFAE & BELLION, New York, N. Y. Filed May 14, 1921.

GLORIA

Particular description of goods.—Raw Coffee.
Claims use since May 1, 1921.

Ser. No. 147,748. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAFFAE & BELLION, New York, N. Y. Filed May 14, 1921.

ESTRELLA

Particular description of goods.—Raw Coffee.
Claims use since May 1, 1921.

Ser. No. 147,785. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Jacobsen Manufacturing Company, Racine, Wis. Filed May 16, 1921.



Particular description of goods.—Lawn-Mowers.
Claims use since Jan. 1, 1921.

Ser. No. 147,790. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Milwaukee Auto Engine & Supply Company, Milwaukee, Wis. Filed May 16, 1921.

GUARDIAN

Particular description of goods.—Automobile-Bumpers.
Claims use since Nov. 21, 1917.

Ser. No. 147,854. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Vinson Coffee Company, Jackson, Tenn. Filed May 17, 1921.

TENNESSEE MAID



The picture in the drawing being fanciful.
Particular description of goods.—Coffee.
Claims use since Mar. 1, 1921.

Ser. No. 147,861. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) Coast Tire and Rubber Company, Oakland, Calif. Filed May 18, 1921.

COAST

Particular description of goods.—Rubber Tires.
Claims use since Nov. 28, 1919.

Ser. No. 147,865. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Glendon B. Doane, Boston, Mass. Filed May 18, 1921.

"THE DOCTOR"

Particular description of goods.—Tool and Machine Handles and Ferrules.
Claims use since January, 1912.

Ser. No. 147,868. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Eastlite Electric Company, Louisville, Ky. Filed May 18, 1921.

EASTLITE

Particular description of goods.—Unitary Electric-Light Plants.
Claims use since Apr. 10, 1921.

Ser. No. 147,898. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) Samoset Chocolates Company, Boston, Mass. Filed May 18, 1921.

CLOTH OF GOLD

Particular description of goods.—Candy.
Claims use since Dec. 10, 1919.

Ser. No. 147,899. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) The C. F. Sauer Company, Richmond, Va. Filed May 18, 1921.

O=RUM=O

Particular description of goods.—Food-Flavoring Extracts.
Claims use since on or about Nov. 1, 1920.

Ser. No. 148,063. (CLASS 23. CUTLERY, MACHINERY, TOOLS, AND PARTS THEREOF.) Frick Company, Waynesboro, Pa. Filed May 23, 1921.

ECLIPSE

Particular description of goods.—Threshing Machinery, Sawmills, Portable and Stationary Steam-Engines, Traction-Engines, and Tractors.
Claims use since about the year 1876.

Ser. No. 148,092. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) Sargent Company, Chicago, Ill. Filed May 23, 1921.

RENU

Particular description of goods.—Rear-View Mirrors for Automobiles.
Claims use since on or about the 1st day of May, A. D. 1920.

Ser. No. 148,119. (CLASS 39. CLOTHING.) Butler Brothers, Chicago, Ill. Filed May 24, 1921.

VALOR

Particular description of goods.—Gloves of Fabric and of Leather.
Claims use since September, 1920.

Ser. No. 148,140. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) The Gandy Belting Company, Baltimore, Md. Filed May 24, 1921.

"THERMO"

Particular description of goods.—Cotton-Stitched Belting for Power Transmission, Elevating, and Conveying.
Claims use since May 16, 1921.

Ser. No. 148,355. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Schwarze Electric Company, Adrian, Mich. Filed May 27, 1921.

SELCO

Particular description of goods.—Electric Horns.
Claims use since Mar. 12, 1921.

Ser. No. 148,363. (CLASS 37. PAPER AND STATIONERY.) The Blunden-Lyon Company, Chicago, Ill. Filed May 28, 1921.

Lithofset

Particular description of goods.—Printing-Paper.
Claims use since the 13th day of October, 1920.

Ser. No. 148,387. (CLASS 37. PAPER AND STATIONERY.) Hampden Glazed Paper & Card Co., Holyoke, Mass. Filed May 28, 1921.

LODESTONE

Particular description of goods.—Cover-Paper.
Claims use since May 11, 1921.

Ser. No. 148,414. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) C. H. Wills & Company, Marysville, Mich. Filed May 28, 1921.



Particular description of goods.—Automobiles.
Claims use since Feb. 26, 1921.

Ser. No. 148,457. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Joseph A. Rosenfeld, Philadelphia, Pa. Filed May 31, 1921.

COMET

Particular description of goods.—Pattern-Marking Machines.
Claims use since May 18, 1921.

Ser. No. 148,489. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. Engel & Sons, New York, N. Y. Filed June 1, 1921.

TRYENGEL

TRADE MARK

The words "Trade Mark" are disclaimed apart from the mark shown in the drawing and are not claimed by the petitioners to be exclusively appropriated by them.
Particular description of goods.—Handkerchiefs.
Claims use since Apr. 1, 1921.

Ser. No. 148,490. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) The Fitzgerald Manufacturing Company, Torrington, Conn. Filed June 1, 1921.

STAR

Particular description of goods.—Electric Fans.
Claims use since on or about Feb. 1, 1921.

Ser. No. 148,571. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Filed June 3, 1921.

COMPEB

Particular description of goods.—Comminuting Machinery, and Specifically for Tube and Ball Mills and Tumbling-Bodies Therefor.
Claims use since Feb. 19, 1921.

Ser. No. 148,695. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) Sam Bretch Wholesale Specialties, Oklahoma, Okla. Filed June 6, 1921.

FEEL SURE

Particular description of goods.—Automobile-Tires of Rubber and Cloth Fabric Composition and Rubber Inner Tubes for Same.
Claims use since Mar. 7, 1921.

Ser. No. 148,751. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Nash Engineering Co., South Norwalk, Conn. Filed June 6, 1921.



The shading in the drawing does not represent color.
Particular description of goods.—Air-Compressors, Vacuum-Pumps, Vacuum-Heating Pumps, Boiler-Feed Pumps, Turbines, and Turbine-Engines.
Claims use since Mar. 31, 1919.

Ser. No. 148,762. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Henry W. Roos, Cincinnati, Ohio. Filed June 6, 1921.

ROOSHOR

Particular description of goods.—Adjustable Shores.
Claims use since Oct. 7, 1920.

Ser. No. 148,795. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Crocker-Wheeler Company, Ampere, N. J. Filed June 7, 1921.

PROGRESS

Particular description of goods.—Starters, Motors, Dynamos, and Ball-Bases Therefor.
Claims use since May 16, 1921.

Ser. No. 148,850. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Pacific Mills, Lawrence and Boston, Mass. Filed June 8, 1921.

Palico

The lining of the drawing indicates no particular color. It is used to represent the appearance of the trade-mark.
Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 6, 1921.

Ser. No. 148,917. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Brune, Pottberg & Co., New York, N. Y. Filed June 10, 1921.

ETERNO

Particular description of goods.—Cotton Piece Goods
Claims use since on or about May 5, 1921.

Ser. No. 148,954. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Smith, Hogg & Co., New York, N. Y. Filed June 10, 1921.



The word "Polo" is stamped in gold—that is, the letters are filled in gold.
Particular description of goods.—Cotton Goods in the Piece.
Claims use since April of 1899.

Ser. No. 148,960. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) H. Wolff & Co., New York, N. Y. Filed June 10, 1921.

VICTORIA

Particular description of goods.—Scissors.
Claims use since May 27, 1921.

Ser. No. 148,961. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) The Yeomanette Company, New York, N. Y. Filed June 10, 1921.

Yeomanette

Particular description of goods.—Hair-Nets.
Claims use since May 24, 1921.

Ser. No. 149,049. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Wester Bros., New York, N. Y. Filed June 11, 1921.

Gozeezy

Particular description of goods.—Razors.
Claims use since March, 1920.

Ser. No. 149,129. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. Erlanger, Blumgart & Co. Inc., New York, N. Y. Filed June 14, 1921.

SEASIDE

Particular description of goods.—Cotton Voiles in Piece Goods.
Claims use since May 4, 1921.

Ser. No. 149,145. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Openright Specialty Company, New York, N. Y. Filed June 14, 1921.

OPENRIGHT

Particular description of goods.—Tools for Cutting the Covers of Sheet-Metal Cans and Boxes.
Claims use since May 15, 1921.

Ser. No. 149,195. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) Lightning Spark Plug Company, Los Angeles, Calif. Filed June 15, 1921.



Particular description of goods.—Spark-Plugs.
Claims use since Oct. 21, 1919.

Ser. No. 149,225. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Gilman Bros., Inc., Boston, Mass. Filed June 16, 1921.

U-Z-A DeLuxe

No registration rights are claimed from the words "De Luxe" apart from the mark shown in the drawing; but applicant waives none of its common-law rights in said mark or any element thereof.
Particular description of goods.—Hair-Nets and Handkerchiefs.
Claims use since Jan. 21, 1921.

Ser. No. 149,317. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERSLAUER BROTHERS & BERNSTEIN, INC., New York, N. Y. Filed June 18, 1921.

TIARA

Particular description of goods.—Hair-Nets.
Claims use since on or about June 14, 1921.

Ser. No. 149,472. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MARTIN LEATHER COMPANY, Wilmington, Del. Filed June 21, 1921.

MED-L

Particular description of goods.—Leather.
Claims use since May 2, 1921.

Ser. No. 149,749. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRAF BROS., INC., New York, N. Y. Filed June 28, 1921.

HYGLO

Particular description of goods.—Hair-Nets.
Claims use since June 22, 1921.

Ser. No. 149,849. (CLASS 42. THREAD AND YARN.) DIXIE MERCERIZING COMPANY, Chattanooga, Tenn. Filed June 30, 1921.

DIXIE

Particular description of goods.—Yarns.
Claims use since Apr. 1, 1921.

Ser. No. 149,969. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LEXINGTON MOTOR COMPANY, Connersville, Ind. Filed July 2, 1921.

The Lark

Particular description of goods.—Passenger Motor-Cars.
Claims use since Apr. 30, 1921.

Ser. No. 149,970. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE LIMOUSINE BODY CO., Kalamazoo, Mich. Filed July 2, 1921.

Toursedan

Particular description of goods.—Automobile Bodies and Tops.
Claims use since May 11, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 16, 1921.

145,589. CHEMICAL STERILIZER, DEODORIZER, AND CLEANSER. THE ABBOTT LABORATORIES, Chicago, Ill.
Filed October 30, 1920. Serial No. 138,973. PUBLISHED APRIL 26, 1921.

145,590. CANNED SALMON, CANNED HERRING. THE ALASKA SALMON & HERRING PACKERS, INC., Seattle, Wash.
Filed November 19, 1919. Serial No. 125,071. PUBLISHED NOVEMBER 2, 1920.

145,591. PERFUME, TOILET WATER, FACE-POWDER, TALCUM POWDER, FACE-CREAMS, SACHET-POWDER, ROUGE. MARK W. ALLEN & CO., Detroit, Mich.
Filed August 24, 1920. Serial No. 136,390. PUBLISHED MAY 3, 1921.

145,592. LEATHER. AMALGAMATED LEATHER COMPANIES, INC., Wilmington, Del.; Philadelphia, Pa.; New York and Rochester, N. Y.; Boston, Mass.; Chicago, Ill., and St. Louis, Mo.
Filed March 26, 1921. Serial No. 145,251. PUBLISHED MAY 3, 1921.

145,593. SILK STOCKINGS. AMERICAN DRY GOODS COMPANY, OF NEW YORK, New York, N. Y.
Filed December 22, 1920. Serial No. 141,407. PUBLISHED MAY 10, 1921.

145,594. MEN'S, LADIES', AND CHILDREN'S HOSIERY. AMERICAN DRY GOODS COMPANY, OF NEW YORK, New York, N. Y.
Filed December 22, 1920. Serial No. 141,405. PUBLISHED MAY 10, 1921.

145,595. CORSET BONES AND STAYS. AMERICAN HARD RUBBER COMPANY, New York, N. Y.
Filed February 23, 1921. Serial No. 143,904. PUBLISHED MAY 3, 1921.

145,596. CORSETS AND BRASSIÈRES. AMERICAN LADY CORSET COMPANY, Detroit, Mich.
Filed October 21, 1920. Serial No. 138,618. PUBLISHED MAY 17, 1921.

145,597. YARNS. AMERICAN TRADING COMPANY, New York, N. Y.
Filed August 25, 1919. Serial No. 121,961. PUBLISHED OCTOBER 14, 1919.

145,598. COFFEE, TEA, SPICES, SALTED PEANUTS, AND PEANUT-BUTTER. THE ANDRUS-SCOFIELD CO., Columbus, Ohio.
Filed February 1, 1921. Serial No. 143,032. PUBLISHED MAY 10, 1921.

145,599. SALVE FOR SORES, CUTS, AND PILES. THE AUSTEN COLOGNE COMPANY, New York, N. Y.
Filed September 22, 1920. Serial No. 137,441. PUBLISHED APRIL 12, 1921.

145,600. TALCUM POWDER. A. P. BABCOCK COMPANY, New York, N. Y.
Filed November 23, 1920. Serial No. 140,014. PUBLISHED APRIL 26, 1921.

145,601. A CERTAIN NAMED MEDICINAL LOZENGE. RALEIGH A. BAGLEY, Suffolk, Va.
Filed October 23, 1920. Serial No. 138,706. PUBLISHED MAY 3, 1921.

145,602. YARNS. J. E. BARBOUR COMPANY, Paterson, N. J.
Filed September 29, 1920. Serial No. 137,721. PUBLISHED MAY 10, 1921.

145,603. NON-INTOXICATING, MALTLESS BEVERAGE CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. B. & C. MFG. CO., St. Louis Park, Minn.
Filed July 31, 1920. Serial No. 135,634. PUBLISHED MAY 17, 1921.

145,604. HOSIERY. THE BEACON FALLS RUBBER SHOE COMPANY, Beacon Falls, Conn.
Filed January 5, 1921. Serial No. 141,852. PUBLISHED MAY 3, 1921.

145,605. ICE-CREAM. BEATRICE CREAMERY COMPANY, Chicago, Ill.
Filed February 18, 1921. Serial No. 143,738. PUBLISHED MAY 10, 1921.

145,606. MEDICINE FOR DISEASES OF POULTRY. FRANK A. BEEDE, Orange, Vt.
Filed June 23, 1920. Serial No. 134,053. PUBLISHED APRIL 19, 1921.

145,607. MEN'S, WOMEN'S, AND CHILDREN'S COATS. BORIS BERNSON, Cambridge, Mass.
Filed January 22, 1921. Serial No. 142,577. PUBLISHED MAY 17, 1921.

145,608. BUILDING WALL AND PARTITION PANELS MADE OF CONCRETE, ARTIFICIAL STONE, AND SIMILAR COMPOSITIONS. JOSEPH A. BIRKHOLZ, Orange, N. J.
Filed October 9, 1920. Serial No. 138,118. PUBLISHED MAY 10, 1921.

145,609. KNIT HOSIERY. BLACK CAT TEXTILES COMPANY, (now by change of name The Allen A. Company,) Kenosha, Wis.
Filed February 9, 1920. Serial No. 128,140. PUBLISHED MAY 17, 1921.

145,610. CERTAIN NAMED TOILET PREPARATIONS. J. M. BLANCO., New York, N. Y.
Filed September 20, 1920. Serial No. 137,354. PUBLISHED APRIL 12, 1921.

145,611. CERTAIN NAMED BEVERAGES, MALT EXTRACTS, MALT-SYRUPS, MALT TONIC, NEAR BEER, &c. VAL BLATZ BREWING COMPANY, Milwaukee, Wis.
Filed January 17, 1921. Serial No. 142,320. PUBLISHED MAY 17, 1921.

145,612. CERTAIN NAMED TOILET PREPARATIONS. THE BLENDINOL CO., Worcester, Mass.
Filed January 22, 1920. Serial No. 127,464. PUBLISHED APRIL 26, 1921.

145,613. EUCALYPTUS-OIL. J. BOSISTO & CO. PROPRIETARY LIMITED, Melbourne, Victoria, Australia.
Filed January 21, 1920. Serial No. 127,422. PUBLISHED APRIL 26, 1921.

145,614. CHOCOLATES. BRADAS & GHEENS, Louisville, Ky.
Filed May 28, 1920. Serial No. 133,040. PUBLISHED JULY 27, 1920.

145,615. CERTAIN NAMED PHARMACEUTICAL PREPARATIONS. EDWARD CHARLES BRELSFORD, Wilkes-Barre, Pa.
Filed April 26, 1920. Serial No. 131,623. PUBLISHED APRIL 12, 1921.

145,616. ICE-CREAM. BREYER ICE CREAM COMPANY, Philadelphia, Pa.
Filed December 27, 1920. Serial No. 141,545. PUBLISHED APRIL 26, 1921.

145,617. BICYCLES, TRICYCLES, VELOCIPEDES, MOTORCYCLES, AND PARTS THEREOF. BROADWAY CYCLE CO., INC., Philadelphia, Pa.
Filed December 21, 1920. Serial No. 141,353. PUBLISHED MAY 3, 1921.

145,618. MOCCASINS. BROCKTON MOCCASIN CO. INC., Brockton, Mass.
Filed January 22, 1921. Serial No. 142,583. PUBLISHED MAY 17, 1921.

145,619. OVERALLS. BROOKLYN OVERALL COMPANY, Brooklyn, N. Y.
Filed January 6, 1921. Serial No. 141,897. PUBLISHED MAY 17, 1921.

145,620. SHOES MADE OF LEATHER. GEORGE BURKMAN, Omaha, Nebr.
Filed January 27, 1921. Serial No. 142,826. PUBLISHED MAY 17, 1921.

145,621. COAL-TAR DYES. JOHN CAMPBELL & CO., New York, N. Y.
Filed December 27, 1920. Serial No. 141,513. PUBLISHED MAY 17, 1921.

145,622. GASKETS OF FIBROUS MATERIAL. CARTER CARBURETOR COMPANY, St. Louis, Mo.
Filed January 13, 1921. Serial No. 142,198. PUBLISHED MAY 17, 1921.

145,623. A NON-ALCOHOLIC FRUIT BEVERAGE SOLD AS A SOFT DRINK. CHESTER A. CAWLEY, Somerville, N. J.
Filed January 24, 1920. Serial No. 127,543. PUBLISHED MAY 17, 1921.

145,624. THERMALLY-INSULATED CONTAINERS FOR FOODS AND LIQUIDS. CHALLENGE HIGH VACUUM COMPANY, Chicago, Ill.
Filed April 24, 1920. Serial No. 131,568. PUBLISHED MAY 3, 1921.

145,625. CERTAIN NAMED RAW OR PARTLY-PREPARED MATERIALS. CHANDLESS & CO., INC., Millbrook and New York, N. Y.
Filed February 5, 1921. Serial No. 143,208. PUBLISHED MAY 10, 1921.

145,626. STUCCO AND STUCCO MATERIALS. CHENEY & CO., New York, N. Y.
Filed December 27, 1920. Serial No. 141,514. PUBLISHED MAY 17, 1921.

145,627. LEATHER BELTING. CHICAGO BELTING COMPANY, Chicago, Ill.
Filed January 29, 1921. Serial No. 142,920. PUBLISHED MAY 17, 1921.

145,628. HOSIERY FOR MEN, WOMEN, AND CHILDREN. CHIPMAN KNITTING MILLS, Easton, Pa.
Filed January 5, 1921. Serial No. 141,853. PUBLISHED APRIL 26, 1921.

145,629. SALVE. JOHN S. CHISM, Wichita, Kans.
Filed October 6, 1920. Serial No. 138,001. PUBLISHED MAY 3, 1921.

145,630. PALLIATIVE FOR PYORRHEA ALVEOLARIS OR RIGGS' DISEASE. FRED. W. CLEMENTS, Rochester, N. Y.
Filed October 22, 1920. Serial No. 138,666. PUBLISHED APRIL 12, 1921.

145,631. DISINFECTANTS, AND PARTICULARLY A SOLIDIFIED SOLUBLE COAL-TAR-DERIVATIVE DISINFECTANT. COAL TAR PRODUCTS INC., Chicago, Ill.
Filed November 8, 1920. Serial No. 139,348. PUBLISHED APRIL 12, 1921.

145,632. CERTAIN ARTICLES OF CLOTHING. COHEN, GOLDMAN & CO., INC., New York, N. Y.
Filed January 17, 1921. Serial No. 142,325. PUBLISHED MAY 10, 1921.

145,633. COTTON VOILE IN THE PIECE. COHN HALL MARX CO., New York, N. Y.
Filed September 30, 1920. Serial No. 137,784. PUBLISHED MAY 3, 1921.

145,634. MEDICINAL PREPARATIONS FOR THE TREATMENT OF INDIGESTION. PHILIP COHEN, Atlanta, Ga.
Filed November 8, 1920. Serial No. 139,346. PUBLISHED APRIL 12, 1921.

145,635. SOAPS. COLGATE & COMPANY, Jersey City, N. J.
Filed December 14, 1920. Serial No. 141,063. PUBLISHED JANUARY 25, 1921.

145,636. WHEAT-FLOUR. THE COLORADO MILLING & ELEVATOR COMPANY, Denver and Eaton, Colo.
Filed March 8, 1921. Serial No. 144,451. PUBLISHED MAY 3, 1921.

145,637. MOTOR-VEHICLES — NAMELY, AUTOMOBILES OR MOTOR-CARS, MOTOR-TRUCKS, AND TRAILERS. THE COLUMBIA MOTORS COMPANY, Detroit, Mich.
Filed October 29, 1919. Serial No. 124,294. PUBLISHED MAY 10, 1921.

145,638. POCKETBOOKS, WALLETS, BILL-FOLDS, CARD-CASES, TICKET-CASES, TRAVELING TOILET-CASES, PURSES, AND SUITCASES. CHARLES K. COOK COMPANY, INCORPORATED, Camden, N. J.
Filed January 2, 1919. Serial No. 114,946. PUBLISHED APRIL 13, 1920.

145,639. REMEDY FOR CERTAIN NAMED AILMENTS. GEO. C. COOK & CO., INC., New York, N. Y.
Filed November 6, 1920. Serial No. 139,250. PUBLISHED APRIL 12, 1921.

145,640. MISSES' AND CHILDREN'S DRESSES. COOPER, COATE & CASEY DRY GOODS CO., Los Angeles, Calif.
Filed December 7, 1920. Serial No. 140,707. PUBLISHED MAY 3, 1921.

145,641. A PREPARATION FOR BLACKING AND DRESSING IRON SURFACES. JOSIAH H. CROCKER, Cambridge, Mass.
Filed December 4, 1920. Serial No. 140,609. PUBLISHED APRIL 5, 1921.

145,642. CERTAIN NAMED PRINTERS' BLANKETS. CROCKER-MCELWAIN COMPANY, Holyoke, Mass.
Filed January 26, 1921. Serial No. 142,779. PUBLISHED MAY 10, 1921.

145,643. CERTAIN ARTICLES OF CLOTHING. CROFT STANARD COMPANY, INC., Huntington, W. Va.
Filed November 10, 1920. Serial No. 139,451. PUBLISHED MAY 3, 1921.

145,644. PLEASURE MOTOR-CARS. HARRY E. CROSS, Rockton, Ill.
Filed January 3, 1920. Serial No. 126,760. PUBLISHED MAY 10, 1921.

145,645. PLEASURE MOTOR-CARS. HARRY E. CROSS, Rockton, Ill.
Filed January 3, 1920. Serial No. 126,761. PUBLISHED MAY 10, 1921.

145,646. DIABETIC FLOUR. CURDOLAC FOOD CO., Waukesha, Wis.
Filed March 8, 1921. Serial No. 144,450. PUBLISHED MAY 3, 1921.

145,647. MALT-SYRUP USED IN MAKING MALT BEVERAGES. MICHAEL J. DAVIS, Brooklyn, N. Y.
Filed May 13, 1920. Serial No. 132,381. PUBLISHED MAY 17, 1921.

145,648. TIRES. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio.
Filed December 16, 1919. Serial No. 126,107. PUBLISHED APRIL 26, 1921.

145,649. BOILER COMPOUND FOR PREVENTION OF DELETERIOUS ACTION OF WATERS WHEN USED IN STEAM-BOILERS. DEARBORN CHEMICAL COMPANY, Chicago, Ill.
Filed December 7, 1920. Serial No. 140,713. PUBLISHED MAY 3, 1921.

145,650. FIREPROOF FABRICS FOR LAMP-SHADES. EDWARD DANCIG, New York, N. Y.
Filed August 3, 1920. Serial No. 135,746. PUBLISHED MAY 17, 1921.

145,651. NEWSPAPER-SECTIONS. WILLIAM DONAHEY, Chicago, Ill.
Filed March 3, 1921. Serial No. 144,280. PUBLISHED MAY 17, 1921.

145,652. CERTAIN NAMED PREPARATIONS FOR MEDICINAL PURPOSES. DRUGGISTS WHOLESALE SUPPLY CORPORATION, San Francisco, Calif.
Filed November 24, 1920. Serial No. 140,097. PUBLISHED APRIL 26, 1921.

145,653. CLUTCH-FACINGS AND BRAKE-LININGS. DURWYLLAN CO., Paterson, N. J.
Filed January 22, 1921. Serial No. 142,611. PUBLISHED MAY 17, 1921.

145,654. WAGON-HOUNDS. DULTMEIER MANUFACTURING COMPANY, Manning, Iowa.
Filed August 4, 1920. Serial No. 135,782. PUBLISHED MAY 10, 1921.

145,655. DYESTUFFS. E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del.
Filed September 2, 1920. Serial No. 136,741. PUBLISHED APRIL 26, 1921.

145,656. MOTORCYCLES AND BICYCLES. EDWARDS & CRIST COMPANY, Chicago, Ill.
Filed July 24, 1919. Serial No. 120,870. PUBLISHED MARCH 9, 1920.

145,657. A MONTHLY PUBLICATION. EL COMERCIO PUBLISHING CORPORATION, New York, N. Y.
Filed February 25, 1921. Serial No. 144,021. PUBLISHED MAY 17, 1921.

145,658. HATS FOR FEMALE WEAR. EMPORIUM-WORLD MILLINERY CO., Chicago, Ill.
Filed December 30, 1920. Serial No. 141,673. PUBLISHED MAY 10, 1921.

145,659. HATS FOR FEMALE WEAR. EMPORIUM-WORLD MILLINERY CO., Chicago, Ill.
Filed December 30, 1920. Serial No. 141,674. PUBLISHED MAY 10, 1921.

145,660. CANDIES. EYE BRAND CONFECTIONERY, INC., Brooklyn, N. Y.
Filed January 21, 1919. Serial No. 115,846. PUBLISHED AUGUST 3, 1920.

145,661. CORSETS, BRASSIÈRES, AND LADIES' AND MISSES' UNDERGARMENTS. THE FAMOUS, Braddock, Pa.
Filed January 3, 1921. Serial No. 141,772. PUBLISHED APRIL 26, 1921.

145,662. REMEDY FOR CONGESTED LIVER, CONSTIPATION, AND CORPULENCY. HARVEY A. FENNER, Philadelphia, Pa., assignor, by meane assignments, to Fenner Drug Company, New York, N. Y., a Corporation of Delaware.
Filed June 22, 1920. Serial No. 134,018. PUBLISHED APRIL 12, 1921.

145,663. BEDSPREADS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,316. PUBLISHED APRIL 19, 1921.

145,664. BEDSPREADS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,318. PUBLISHED APRIL 19, 1921.

145,665. WHEAT-FLOUR. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed July 22, 1920. Serial No. 135,273. PUBLISHED MAY 10, 1921.

145,666. PHOTOGRAPHIC PRINTS. FLEET PHOTO SERVICE, Washington, D. C.
Filed February 26, 1921. Serial No. 144,073. PUBLISHED MAY 17, 1921.

145,667. AUTOSOLIDIFYING STRUCTURAL COMPOSITIONS COMPOSED OF CEMENT, FIBER, AND OTHER INGREDIENTS. FLEX-OR-CRETE CORPORATION, Boston, Mass.
Filed November 6, 1920. Serial No. 139,259. PUBLISHED MAY 10, 1921.

145,668. MALT-SYRUP FOR MAKING MALT BEVERAGES. ALBERT H. FRANKEL, New York, N. Y.
Filed August 27, 1920. Serial No. 136,550. PUBLISHED MAY 17, 1921.

145,669. LAXATIVE AND LIVER PILLS. HARRY MUNDELL FRECK, Columbus, Ohio.
Filed February 18, 1918. Serial No. 109,057. PUBLISHED APRIL 19, 1921.

145,670. HAIR-TONIC, HAIR-GROWER, SHAMPOO, PRESSING-OIL AND TEMPLE-GROWER. Mrs. N. A. FRANKLIN, Houston, Tex.
Filed November 8, 1920. Serial No. 139,352. PUBLISHED APRIL 12, 1921.

145,671. CERTAIN ARTICLES OF CLOTHING. ARNOLD FUCHS, New York, N. Y.
Filed December 18, 1920. Serial No. 141,259. PUBLISHED MAY 3, 1921.

145,672. HAIR-WAVING FLUIDS. L. M. GARRITY & CO., INC., Boston, Mass.
Filed December 27, 1920. Serial No. 141,521. PUBLISHED MAY 17, 1921.

145,673. FINISHED MARBLE, MARBLE CUT TO SIZE, AND CUT STONE. THE GEORGIA MARBLE COMPANY, Tate, Ga.
Filed November 11, 1920. Serial No. 139,532. PUBLISHED MAY 17, 1921.

145,674. MARBLE CUT TO SIZE, FINISHED MARBLE, AND CUT STONE. THE GEORGIA MARBLE COMPANY, Tate, Ga.
Filed November 24, 1920. Serial No. 140,105. PUBLISHED MAY 10, 1921.

145,675. CERTAIN NAMED TOYS. THE A. C. GILBERT COMPANY, New Haven, Conn.
Filed December 11, 1920. Serial No. 140,937. PUBLISHED MAY 24, 1921.

145,676. FIRE-BRICKS AND PAVING-BLOCKS. GEO. S. GOOD FIRE BRICK CO., Patton, Pa.
Filed October 3, 1918. Serial No. 113,559. PUBLISHED MAY 17, 1921.

145,677. STOCK AND POULTRY FOOD. GOODENUF MILLING & FEED CO., Minneapolis, Minn.
Filed January 12, 1921. Serial No. 142,142. PUBLISHED APRIL 26, 1921.

145,678. LADIES' SHIRTWAISTS AND LADIES' BLOUSES. O. F. GRAB & CO., New York, N. Y.
Filed July 23, 1919. Serial No. 120,824. PUBLISHED MAY 17, 1921.

145,679. AN ANTISEPTIC CREAM FOR USE AFTER SHAVING. JOHN F. GRADY, Chicago, Ill.
Filed June 30, 1920. Serial No. 134,416. PUBLISHED APRIL 12, 1921.

145,680. HOG-TONIC. OSCAR D. GRAWCOCK, Churubusco, Ind., assignor to The Nu-Tone Company, Churubusco, Ind., a Corporation of Indiana.
Filed December 23, 1919. Serial No. 126,363. PUBLISHED APRIL 13, 1920.

145,681. CERTAIN NAMED CHEMICAL AND PHARMACEUTICAL PREPARATIONS. GLOBE GROCERY STORES, INC., Brooklyn, N. Y.
Filed December 11, 1919. Serial No. 125,839. PUBLISHED MAY 3, 1921.

145,682. MEN'S AND BOYS' UNION-SUITS, UNDERSHIRTS, AND UNDER-DRAWERS. HALL, HARTWELL & CO., Troy, N. Y.
Filed September 1, 1920. Serial No. 136,706. PUBLISHED MAY 17, 1921.

145,683. WORSTED KHAKI HOSE AND WORSTED KHAKI SWEATERS FOR BOYS. HAND KNIT HOSIERY CO., Sheboygan, Wis.
Filed January 14, 1921. Serial No. 142,255. PUBLISHED MAY 10, 1921.

145,684. ACETYLENE-LAMPS. A. L. HANSEN MFG. CO., Chicago, Ill.
Filed October 2, 1920. Serial No. 137,829. PUBLISHED MAY 17, 1921.

145,685. MOLASSES AND MALT. GEORGE W. HARRINGTON, New York, N. Y.
Filed February 23, 1921. Serial No. 143,925. PUBLISHED MAY 3, 1921.

145,686. BICYCLES. D. P. HARRIS HARDWARE & MANUFACTURING CO., INC., New York, N. Y.
Filed April 7, 1921. Serial No. 145,826. PUBLISHED MAY 17, 1921.

145,687. BICYCLES. D. P. HARRIS HARDWARE & MANUFACTURING CO., INC., New York, N. Y.
Filed April 7, 1921. Serial No. 145,827. PUBLISHED MAY 17, 1921.

145,688. AN ANTISEPTIC SOLUTION. J. BAXTER HAYMORE, Macon, N. C.
Filed October 5, 1920. Serial No. 137,941. PUBLISHED APRIL 5, 1921.

145,689. A LOCAL ANESTHETIC. A. EDWARD HEALY, Brooklyn, N. Y.
Filed December 7, 1920. Serial No. 140,721. PUBLISHED MAY 3, 1921.

145,690. METAL CULVERTS. HIGHWAY IRON PRODUCTS CO., Ligonier, Ind.
Filed May 8, 1920. Serial No. 132,178. PUBLISHED MAY 10, 1921.

145,691. A MEDICINAL PREPARATION USED AS A REMEDY FOR COUGHS AND COLDS. ABRAHAM D. HOLLAND, Chicago, Ill.
Filed November 23, 1920. Serial No. 140,033. PUBLISHED APRIL 26, 1921.

145,692. COATS, TROUSERS, VESTS, OVERCOATS, ULSTERS, AND RAINCOATS. LOUIS HOLTS & SONS INC., Rochester, N. Y.
Filed January 11, 1921. Serial No. 142,072. PUBLISHED MAY 10, 1921.

145,693. PILLS FOR BILIOUSNESS, CONSTIPATION, HEADACHES, DIZZINESS, LIVER TROUBLES, AND A LAXATIVE. R. H. HUNSTOCK CHEMICAL CO., St. Louis, Mo.
Filed November 6, 1920. Serial No. 139,266. PUBLISHED APRIL 12, 1921.

145,694. INSECT-POWDER FOR DESTROYING INSECTS. R. H. HUNSTOCK CHEMICAL CO., St. Louis, Mo.
Filed December 7, 1920. Serial No. 140,727. PUBLISHED MAY 3, 1921.

145,695. A FRAME EXTENSION FOR WORM-DRIVEN TRUCKS AND SLIP-JOINT PROPELLER-SHAFTS COMPLEMENTAL THERETO. HUDSON MOTOR SPECIALTIES COMPANY, Philadelphia, Pa.
Filed March 17, 1921. Serial No. 144,860. PUBLISHED MAY 10, 1921.

145,696. CANNED AND PRESERVED FRUITS. GEO. E. HYDE, Campbell, Calif.
Filed December 26, 1919. Serial No. 126,471. PUBLISHED APRIL 26, 1921.

145,697. CEMENT BLOCKS. IDEAL CEMENT STONE COMPANY, Omaha, Nebr.
Filed March 24, 1921. Serial No. 145,166. PUBLISHED MAY 10, 1921.

145,698. CERTAIN NAMED GLASSWARE. IMPERIAL GLASS COMPANY, Bellaire, Ohio.
Filed May 19, 1920. Serial No. 132,640. PUBLISHED MAY 10, 1921.

145,699. BITUMINOUS COAL. INTERNATIONAL COAL & MINING CO., East St. Louis, Ill.
Filed March 24, 1921. Serial No. 145,167. PUBLISHED MAY 3, 1921.

145,700. NAIL-POLISH. FRANK C. IRISH, New York, N. Y.
Filed November 22, 1920. Serial No. 139,972. PUBLISHED APRIL 26, 1921.

145,701. CERTAIN NAMED CHEMICAL SUBSTANCES. JOHNSON & SONS MANUFACTURING CHEMISTS LIMITED, London, England.
Filed January 30, 1920. Serial No. 127,759. PUBLISHED APRIL 26, 1921.

145,702. PHOTOGRAPHIC DEVELOPERS. JOHNSON & SONS MANUFACTURING CHEMISTS LIMITED, London, England.
Filed December 24, 1920. Serial No. 141,495. PUBLISHED MAY 17, 1921.

145,703. GIRLS', MISSES', AND LADIES' DRESSES, MIDDY-BLOUSES, SKIRTS, AND BLOOMERS. JUNGMANN-LANDECKER GARMENT CO., St. Louis, Mo.
Filed January 4, 1921. Serial No. 141,839. PUBLISHED APRIL 26, 1921.

145,704. CORSETS AND CORSET-WAISTS. KALAMAZOO CORSET COMPANY, Kalamazoo, Mich.
Filed January 12, 1921. Serial No. 142,152. PUBLISHED MAY 10, 1921.

145,705. HOSIERY. SIDNEY KAUFMAN, New York, N. Y.
Filed December 29, 1920. Serial No. 141,636. PUBLISHED MAY 17, 1921.

145,706. HAIR-TONIC. MARY A. KEPNER, New York, N. Y.
Filed March 31, 1919. Serial No. 117,052. PUBLISHED MAY 6, 1919.

145,707. A GENERAL MEDICINAL TONIC. EDWARD L. KILCOYNE, Wilkes-Barre, Pa.
Filed October 9, 1920. Serial No. 138,127. PUBLISHED APRIL 19, 1921.

145,708. PUBLICATIONS ISSUED MONTHLY. THE KIRSCHENBAUM CORPORATION, Baltimore, Md.
Filed April 1, 1921. Serial No. 145,566. PUBLISHED MAY 10, 1921.

145,709. PURE FAT, SALAD-OIL, AND COOKING-OIL. EMANUEL KLEIN, New York, N. Y.
Filed July 27, 1920. Serial No. 135,448. PUBLISHED APRIL 5, 1921.

145,710. CANDY. THE A. A. KRAFT CO., Los Angeles, Calif.
Filed February 26, 1921. Serial No. 144,091. PUBLISHED MAY 3, 1921.

145,711. HOSIERY, UNDERWEAR OF KNITTED FABRIC FOR MEN, WOMEN, AND CHILDREN, AND SWEATERS. KYLE-GETTYS COMPANY, Knoxville, Tenn.
Filed November 26, 1920. Serial No. 140,184. PUBLISHED MAY 17, 1921.

145,712. FRESH CITRUS FRUITS. LAKE HAMILTON CITRUS GROWERS ASSOCIATION, Lake Hamilton, Fla.
Filed February 26, 1921. Serial No. 144,092. PUBLISHED MAY 3, 1921.

145,713. PATENT-LEATHER. A. C. LAWRENCE LEATHER COMPANY, Boston, Mass.
Filed March 3, 1921. Serial No. 144,289. PUBLISHED MAY 3, 1921.

145,714. HOSIERY. HARVEY D. LEINBACH, Wyomissing, Pa.
Filed January 17, 1921. Serial No. 142,847. PUBLISHED MAY 10, 1921.

145,715. LADIES' BLOUSES. THE LERNER WAIST CO., New York, N. Y.
Filed January 20, 1921. Serial No. 142,508. PUBLISHED MAY 17, 1921.

145,716. LADIES' WAISTS. THE LERNER WAIST CO., New York, N. Y.
Filed January 20, 1921. Serial No. 142,509. PUBLISHED MAY 17, 1921.

145,717. SOLE-LEATHER. HARRIS LEVEY, Omaha, Nebr.
Filed March 14, 1921. Serial No. 144,728. PUBLISHED MAY 3, 1921.

145,718. TALCUM POWDER, FACE-POWDER, COLD-CREAM, ROUGE, COMPACT-POWDER, AND EYE-BROW-PENCILS. MAURICE LEVY, New York, N. Y.
Filed March 5, 1920. Serial No. 129,265. PUBLISHED JUNE 15, 1920.

145,719. A MEDICINAL PREPARATION FOR THE TREATMENT OF RHEUMATISM, STIFF AND PAINFUL JOINTS, AND FOR ACHING FEET. LAURA B. LEWIS, New York, N. Y.
Filed October 19, 1920. Serial No. 138,501. PUBLISHED APRIL 19, 1921.

145,720. HEEL-CUSHIONS AND HEEL-CUSHION AND INSTEP RAISERS. L. G. & S. S. CO., Boston, Mass.
Filed January 22, 1921. Serial No: 142,627. PUBLISHED MAY 17, 1921.

145,721. HEEL-CUSHIONS. L. G. & S. S. CO., Boston, Mass.
Filed January 22, 1921. Serial No. 142,628. PUBLISHED MAY 17, 1921.

145,722. INSOLES. L. G. & S. S. CO., Boston, Mass.
Filed January 22, 1921. Serial No. 142,629. PUBLISHED MAY 17, 1921.

145,723. CUSHION-INSOLES. L. G. & S. S. CO., Boston, Mass.
Filed January 22, 1921. Serial No. 142,630. PUBLISHED MAY 17, 1921.

145,724. ARCH AND HEEL CUSHIONS. L. G. & S. S. CO., Boston, Mass.
Filed January 22, 1921. Serial No. 142,631. PUBLISHED MAY 17, 1921.

145,725. LAMB'S WOOL AND SATEEN QUILTED SOLES. L. G. & S. S. CO., Boston, Mass.
Filed January 22, 1921. Serial No. 142,633. PUBLISHED MAY 17, 1921.

145,726. HEEL-LINING REPAIRERS. L. G. & S. S. CO., Boston, Mass.
Filed January 22, 1921. Serial No. 142,634. PUBLISHED MAY 17, 1921.

145,727. POULTRY FOOD. H. D. LINKER, Hope, Ark.
Filed February 21, 1921. Serial No. 143,868. PUBLISHED MAY 3, 1921.

145,728. LADIES', MISSES', AND CHILDREN'S DRESSES, WAISTS, COATS, SUITS, AND SKIRTS. LIPSON & ADELSON, New York, N. Y.
Filed December 13, 1920. Serial No. 141,003. PUBLISHED MAY 17, 1921.

145,729. CHEWING-GUM. LISTERATED GUM CORPORATION, New York, N. Y.
Filed April 1, 1920. Serial No. 130,481. PUBLISHED JULY 13, 1920.

145,730. CERTAIN NAMED TOILET PREPARATIONS. FANNIE J. LONDON, New York, N. Y.
Filed August 26, 1920. Serial No. 136,525. PUBLISHED APRIL 19, 1921.

145,731. A SECTION OF A NEWSPAPER, SAID SECTION BEING ISSUED WEEKLY. LORD & TAYLOR, New York, N. Y.
Filed March 28, 1921. Serial No. 145,345. PUBLISHED MAY 10, 1921.

145,732. LADIES' BLOUSES. THE LORRAINE STORES CORPORATION, Wilmington, Del., and New York, N. Y.
Filed January 20, 1921. Serial No. 142,510. PUBLISHED MAY 17, 1921.

145,733. HEN FEED AND HORSE AND MULE FEED. LUEHRMANN HAY & GRAIN CO., St. Louis, Mo.
Filed February 23, 1921. Serial No. 143,933. PUBLISHED MAY 3, 1921.

145,734. WHEAT-FLOUR. LUEHRMANN HAY & GRAIN CO., St. Louis, Mo.
Filed February 23, 1921. Serial No. 143,934. PUBLISHED MAY 3, 1921.

145,735. PREPARATION FOR STIMULATING THE GROWTH OF HAIR. MADAME STELLA MCALLISTER, Philadelphia, Pa.
Filed November 19, 1920. Serial No. 139,865. PUBLISHED APRIL 26, 1921.

145,736. MEN'S HATS. MCKIBBIN, DRISCOLL & DORSEY, INC., St. Paul, Minn.
Filed March 5, 1920. Serial No. 129,269. PUBLISHED MAY 3, 1921.

145,737. CERTAIN NAMED MEDICINAL PREPARATIONS. HAROLD E. MCLEAN, Jacksonville, Fla.
Filed October 20, 1920. Serial No. 138,584. PUBLISHED MAY 3, 1921.

145,738. CERTAIN ARTICLES OF CLOTHING. MAASS & KEMPER, INCORPORATED, Baltimore, Md.
Filed December 17, 1920. Serial No. 141,235. PUBLISHED APRIL 26, 1921.

145,739. INSECTIFUGE. THE MENTHOLATUM COMPANY, Wichita, Kans., and Buffalo, N. Y.
Filed November 6, 1920. Serial No. 139,293. PUBLISHED APRIL 12, 1921.

145,740. OVERALLS, JUMPERS, COATS, AND UNION-ALLS MADE OF DENIM OR SIMILAR MATERIAL. D. D. METCALF, Greenville, Ala.
Filed September 28, 1920. Serial No. 137,706. PUBLISHED MAY 3, 1921.

145,741. OVERALLS, JUMPERS, COATS, AND UNION-ALLS. D. D. METCALF, Greenville, Ala.
Filed January 17, 1921. Serial No. 142,350. PUBLISHED MAY 10, 1921.

145,742. A REMEDY AGAINST SYPHILIS, SLEEPING-SICKNESS, TRYPANOSOMIASIS, AND OTHER TROPICAL INFECTIOUS DISEASES. H. A. METZ LABORATORIES, INC., New York, N. Y.
Filed April 23, 1920. Serial No. 131,534. PUBLISHED MAY 3, 1921.

145,743. HAIR-NETS. HENRY MEUER, New York, N. Y.
Filed February 21, 1921. Serial No. 143,882. PUBLISHED MAY 3, 1921.

145,744. CUP-CHOCOLATES IN BAR FORM. MEXICAN PRODUCTS CO., Laredo, Tex.
Filed April 22, 1919. Serial No. 117,735. PUBLISHED JUNE 8, 1920.

145,745. CRAVATS AND NECKTIES. MEYERSON-LEVINE & COMPANY, New York, N. Y.
Filed December 23, 1920. Serial No. 141,466. PUBLISHED MAY 10, 1921.

145,746. BLOOD-PURIFIER. SAN MIGUEL MEDICINE CO., Los Angeles, Calif.
Filed November 24, 1920. Serial No. 140,147. PUBLISHED APRIL 26, 1921.

145,747. SHOES FOR CHILDREN AND INFANTS, MADE OF LEATHER, FABRICS, AND CLOTH, AND COMBINATIONS. I. MILLER AND SONS, INC., Brooklyn, N. Y.
Filed January 6, 1921. Serial No. 141,916. PUBLISHED MAY 17, 1921.

145,748. CERTAIN NAMED TOILET PREPARATIONS. EST. HENRY C. MINER, INC., New York, N. Y.
Filed October 16, 1920. Serial No. 138,393. PUBLISHED APRIL 5, 1921.

145,749. WORM-DESTROYER, HOG-TONIC, AND POULTRY-REGULATOR. DR. CHARLES S. MOORE, Eldora, Iowa.
Filed October 26, 1920. Serial No. 138,818. PUBLISHED APRIL 12, 1921.

145,750. HATS FOR MEN AND WOMEN. H. S. MORAND, Cincinnati, Ohio.
Filed December 29, 1920. Serial No. 141,642. PUBLISHED MAY 10, 1921.

145,751. INSECTICIDES, COMBINED INSECTICIDES AND FUNGICIDES, AND FUNGICIDES FOR PLANTS. MORGAN CHEMICAL CORPORATION, Ogdensburg, N. Y.
Filed September 25, 1920. Serial No. 137,623. PUBLISHED APRIL 12, 1921.

145,752. HOSIERY AND UNDERWEAR, SUCH UNDERWEAR BEING OF KNITTED AND TEXTILE FABRIC. THE MUNSINGWEAR CORPORATION, Minneapolis, Minn.
Filed November 24, 1920. Serial No. 140,127. PUBLISHED MAY 3, 1921.

145,753. HOSIERY AND UNDERWEAR, SUCH UNDERWEAR BEING OF KNITTED AND TEXTILE FABRIC. THE MUNSINGWEAR CORPORATION, Minneapolis, Minn.
Filed November 24, 1920. Serial No. 140,128. PUBLISHED MAY 3, 1921.

145,754. SHINGLES AND SLATES MADE OF ASBESTOS AND CEMENT. THE NATIONAL ASBESTOS MFG. CO., Jersey City, N. J.
Filed February 18, 1920. Serial No. 128,556. PUBLISHED MAY 10, 1921.

145,755. OIL-STOVES. NATIONAL ENAMELING & STAMPING CO., Milwaukee, Wis., and Baltimore, Md.
Filed May 18, 1920. Serial No. 132,607. PUBLISHED MAY 10, 1921.

145,756. TOILET PREPARATIONS—TO WIT, PERFUMES, TALC, FACE-POWDER, ROUGE, TOILET WATER, AND SACHET. THE NATIONAL PHARMACEUTICAL COMPANY, Cleveland, Ohio.
Filed October 9, 1920. Serial No. 138,134. PUBLISHED APRIL 19, 1921.

145,757. MALTED MILK. NESTLÉ'S FOOD COMPANY, INC., New York, N. Y.
Filed February 4, 1921. Serial No. 143,177. PUBLISHED MAY 17, 1921.

145,758. CONDENSED MILK. NESTLÉ'S FOOD COMPANY, INC., New York, N. Y.
Filed February 4, 1921. Serial No. 143,179. PUBLISHED MAY 17, 1921.

145,759. STERILIZED MILK. NESTLÉ'S FOOD COMPANY, INC., New York, N. Y.
Filed February 4, 1921. Serial No. 143,180. PUBLISHED MAY 17, 1921.

145,760. ELECTRICAL MOTORS. NEW ERA MOTOR CORPORATION, New York, N. Y.
Filed December 30, 1919. Serial No. 126,650. PUBLISHED FEBRUARY 15, 1921.

145,761. FABRIC FIRE-HOSE. CHAS. NIEDNER'S SONS, CO., Malden, Mass.
Filed December 13, 1920. Serial No. 141,017. PUBLISHED MAY 10, 1921.

145,762. PISTON-RINGS. NILSON-MILLER COMPANY, Hoboken, N. J.
Filed January 29, 1920. Serial No. 127,737. PUBLISHED JULY 13, 1920.

145,763. PETROLEUM JELLY. NOCO PETROLEUM COMPANY, New York, N. Y.
Filed November 20, 1920. Serial No. 139,903. PUBLISHED APRIL 26, 1921.

145,764. CASKETS AND COFFINS. NORTH ST. PAUL CASKET COMPANY, North St. Paul, Minn.
Filed September 23, 1920. Serial No. 137,538. PUBLISHED MAY 17, 1921.

145,765. HAIR RESTORER, SHAMPOO, AND TONIC. NORTON, ROGERS & HUNTER, INC., Seattle, Wash.
Filed November 18, 1920. Serial No. 139,814. PUBLISHED APRIL 26, 1921.

145,766. SKIN-LOTIONS. NOUQUIE COMPANY, Chicago, Ill.
Filed November 17, 1919. Serial No. 125,011. PUBLISHED APRIL 12, 1921.

145,767. A CHEMICAL STAIN-REMOVER. JOHN A. ORTLIEB, Reading, Pa.
Filed January 2, 1920. Serial No. 126,742. PUBLISHED APRIL 5, 1921.

145,768. A WATERPROOF COATING FOR TEXTILE FABRICS AND LEATHER. JAMES H. OVERTON, Quincy, Ill.
Filed August 30, 1919. Serial No. 122,184. PUBLISHED JANUARY 6, 1920.

145,769. CERTAIN BEARINGS AND PUMPS AND AIR-COMPRESSORS, GREASE-GUNS, CARBURETERS, AND PRIMERS. OVERSEAS MOTOR SERVICE CORPORATION, New York, N. Y.
Filed February 25, 1921. Serial No. 144,039. PUBLISHED MAY 3, 1921.

145,770. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed December 29, 1920. Serial No. 141,649. PUBLISHED APRIL 19, 1921.

145,771. CLEANSING COMPOSITION AND SOAP. THE PAGET MANUFACTURING COMPANY LIMITED, Sydney, New South Wales, Australia.
Filed June 30, 1919. Serial No. 120,124. PUBLISHED MAY 17, 1921.

145,772. PRESSED-STEEL FRAMES FOR AUTOMOBILES AND CERTAIN NAMED PARTS THEREOF. PARISH & BINGHAM CORPORATION, New York, N. Y., and Cleveland, Ohio.
Filed January 31, 1921. Serial No. 143,008. PUBLISHED MAY 17, 1921.

145,773. A THERAPEUTIC PREPARATION FOR TREATMENT OF TUBERCULOSIS. BENJAMIN S. PASCHALL, New York, N. Y.
Filed February 15, 1918. Serial No. 100,012. PUBLISHED MAY 3, 1921.

145,774. BOOTS AND SHOES OF LEATHER OR LEATHER AND RUBBER IN COMBINATION. PENNINGTON-CROWELL SHOE COMPANY, Manchester, N. H.
Filed December 10, 1920. Serial No. 140,900. PUBLISHED MAY 17, 1921.

145,775. HOSIERY AND KNITTED UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. PERFECTION MILLS, INC., New York, N. Y.
Filed September 9, 1920. Serial No. 136,994. PUBLISHED MAY 3, 1921.

145,776. CHILDREN'S BLOUSES AND BLOOMERS. THE PETER PAN CO., New York, N. Y.
Filed December 18, 1920. Serial No. 141,276. PUBLISHED MAY 10, 1921.

145,777. DRESSES, SUITS, PANTS, ROMPERS, CAPES, BLOUSES, MIDDIES, APRONS, AND HATS FOR WOMEN AND CHILDREN. GENEVIEVE PFEFFER, San Jose, Calif.
Filed November 16, 1920. Serial No. 139,720. PUBLISHED MAY 17, 1921.

145,778. CERTAIN NAMED OILS AND GREASES. PHINNY BROTHERS COMPANY, Oil City, Pa.
Filed December 20, 1920. Serial No. 141,327. PUBLISHED MAY 10, 1921.

145,779. PREPARATION TO PREVENT PERSPIRATION. S. S. PIERCE CO., Boston, Mass.
Filed September 14, 1920. Serial No. 137,170. PUBLISHED APRIL 26, 1921.

145,780. MONTHLY PUBLICATIONS. THE PITCHFORK COMPANY, Dallas, Tex.
Filed March 29, 1921. Serial No. 145,412. PUBLISHED MAY 10, 1921.

145,781. BOOTS, SHOES, AND SLIPPERS OF LEATHER, RUBBER, FELT, SILK, CLOTH, OR OTHER FABRIC CONSTRUCTION. THOMAS G. PLANT COMPANY, Boston, Mass.
Filed December 6, 1920. Serial No. 140,678. PUBLISHED MAY 17, 1921.

145,782. MEN'S AND YOUNG MEN'S SUITS AND OVERCOATS. PLIMACK BROTHERS, INC., New York, N. Y.
Filed June 12, 1920. Serial No. 133,632. PUBLISHED MAY 3, 1921.

145,783. ORANGES, GRAPEFRUIT, AND PINEAPPLES IN THEIR NATURAL STATE. THE PORTO RICO FRUIT EXCHANGE, San Juan, Porto Rico.
Filed April 23, 1920. Serial No. 131,537. PUBLISHED JANUARY 11, 1921.

145,784. PREPARATIONS FOR THE TREATMENT OF BOILS, BURNS, WOUNDS, AND SIMILAR AILMENTS. SAMUEL POZMANTIER, New York, N. Y.
Filed November 4, 1920. Serial No. 139,169. PUBLISHED APRIL 12, 1921.

145,785. MONTHLY PERIODICAL. PRESSURE PROOF PISTON RING COMPANY, Boston, Mass.
Filed March 18, 1921. Serial No. 144,941. PUBLISHED MAY 10, 1921.

145,786. PREPARATION FOR INCREASING WEARING PROPERTIES OF FABRICS. PREVENTO-HOLE, INC., New York, N. Y.
Filed September 11, 1920. Serial No. 137,093. PUBLISHED APRIL 12, 1921.

145,787. KNITTED CAPS, INCLUDING SKATING-CAPS, STOCKING-CAPS. THE KELLER KNITTING COMPANY, Cleveland, Ohio.
Filed January 22, 1920. Serial No. 127,479. PUBLISHED MAY 3, 1921.

145,788. TIRES COMPOSED OF RUBBER AND FABRIC. RACINE RUBBER COMPANY, Racine, Wis.
Filed February 7, 1921. Serial No. 143,297. PUBLISHED MAY 17, 1921.

145,789. SKIN-SOAP. RADIOR CO. LTD. OF LONDON, New York, N. Y.
Filed November 24, 1919. Serial No. 125,246. PUBLISHED MAY 17, 1921.

145,790. A POLISH FOR PAINTED, VARNISHED, WAXED, AND SIMILAR SURFACES. THE W. T. RAWLEIGH COMPANY, Freeport, Ill.
Filed October 20, 1919. Serial No. 124,010. PUBLISHED APRIL 6, 1920.

145,791. CERTAIN NAMED TOILET PREPARATIONS. THE W. T. RAWLEIGH COMPANY, Freeport, Ill.
Filed December 7, 1920. Serial No. 140,749. PUBLISHED MAY 3, 1921.

145,792. A WEEKLY PUBLICATION. RAYNOR, NICHOLAS & TRUESDELL, New York, N. Y.
Filed March 3, 1921. Serial No. 144,298. PUBLISHED MAY 10, 1921.

145,793. CANNED FRUITS. REEDLEY CANNING CO., Reedley, Calif.
Filed December 21, 1920. Serial No. 141,395. PUBLISHED MAY 17, 1921.

145,794. CANNED FRUITS. REEDLEY CANNING CO., Reedley, Calif.
Filed December 21, 1920. Serial No. 141,396. PUBLISHED MAY 17, 1921.

145,795. VEHICLE-TIRES MADE OF RUBBER. REVERE RUBBER COMPANY, Providence, R. I.
Filed February 15, 1921. Serial No. 143,619. PUBLISHED MAY 10, 1921.

145,796. WOMEN'S SHOES, PUMPS, AND SLIPPERS MADE WHOLLY OR IN PART OF LEATHER AND CLOTH. RIALTO SHOE CO., Lynn, Mass.
Filed October 28, 1920. Serial No. 138,925. PUBLISHED MAY 17, 1921.

145,797. CERTAIN ARTICLES OF CLOTHING. RICHARD HAWORTH AND COMPANY, LIMITED, Manchester, England.
Filed May 25, 1920. Serial No. 132,940. PUBLISHED MAY 17, 1921.

145,798. CERTAIN ARTICLES OF CLOTHING. ROBERT REIS & CO., New York, N. Y.
Filed December 15, 1920. Serial No. 141,129. PUBLISHED MAY 10, 1921.

145,799. LIQUID WAX FOR WAXING SEWING-THREAD. JAMES T. ROEBUCK, Newnan, Ga.
Filed December 21, 1920. Serial No. 141,390. PUBLISHED MAY 17, 1921.

145,800. LIQUID MEDICINAL PREPARATION FOR THE TREATMENT OF THE LIVER AND KIDNEYS. ROSE DRUG COMPANY, Vicksburg, Miss.
Filed November 1, 1920. Serial No. 139,052. PUBLISHED APRIL 12, 1921.

145,801. CERTAIN ARTICLES OF CLOTHING. MAURICE ROSENTHAL, San Francisco, Calif.
Filed December 21, 1920. Serial No. 141,391. PUBLISHED MAY 3, 1921.

145,802. SOAP. SABERTON MFG. CO., Tampa, Fla.
Filed April 23, 1920. Serial No. 131,540. PUBLISHED MAY 17, 1921.

145,803. LADIES' SUITS, COATS, AND DRESSES. SALOMON, BLUM AND CO., New York, N. Y.
Filed February 28, 1920. Serial No. 129,025. PUBLISHED MAY 17, 1921.

145,804. HAIR-NETS. SAMSTAG & HILDER BROS., New York, N. Y.
Filed January 28, 1921. Serial No. 142,673. PUBLISHED APRIL 19, 1921.

145,805. MOTOR-TRUCKS AND AUTOMOBILES. SANDOW MOTOR TRUCK CO., Chicago, Ill.
Filed May 24, 1920. Serial No. 132,887. PUBLISHED MAY 10, 1921.

145,806. WATER-BAGS. THE SCHAEFER TENT & AWNING CO., Denver, Colo.
Filed January 30, 1920. Serial No. 127,789. PUBLISHED MAY 3, 1921.

145,807. HAIR-DYE. THE SCHEFFLER HAIR COLORINE COMPANY, New York, N. Y.
Filed May 22, 1920. Serial No. 132,816. PUBLISHED APRIL 12, 1921.

145,808. A LIQUID PREPARATION FOR TREATING GASOLENE, KEROSENE, BENZOL, DISTILLATE, &c., FOR THE PURPOSE OF PRODUCING MORE POWER IN MOTORS USING THE ABOVE FUELS. FERDINAND C. SCHUSSLER, Newark, N. J.
Filed October 1, 1920. Serial No. 137,818. PUBLISHED APRIL 26, 1921.

145,809. CANNED SARDINES. SEACOAST CANNING CO., Eastport, Me., and East San Pedro, Calif.
Filed January 30, 1920. Serial No. 127,779. PUBLISHED JUNE 22, 1920.

145,810. READY-MIXED PAINTS. SEATTLE PAINT COMPANY, Seattle, Wash.
Filed May 20, 1918. Serial No. 111,082. PUBLISHED AUGUST 17, 1920.

145,811. ANTISEPTIC LUBRICATING JELLY. SHARP & DOHME, Baltimore, Md.
Filed December 23, 1920. Serial No. 141,471. PUBLISHED MAY 17, 1921.

145,812. MEN'S ONE AND TWO PIECE ATHLETIC UNDERWEAR. CHARLES E. SHEDAKER & SONS, Philadelphia, Pa.
Filed December 30, 1920. Serial No. 141,692. PUBLISHED APRIL 26, 1921.

145,813. SHEET-PACKING CONTAINING COMMINUTED IRON AND SHEET-METAL GASKETS. SMOOTH-ON MANUFACTURING COMPANY, Jersey City, N. J.
Filed June 22, 1920. Serial No. 134,043. PUBLISHED MAY 17, 1921.

145,814. ADHESIVE TAPE FOR REPAIR PURPOSES AND THE LIKE. SMOOTH-ON MANUFACTURING COMPANY, Jersey City, N. J.
Filed June 22, 1920. Serial No. 134,044. PUBLISHED MAY 17, 1921.

145,815. PANCAKE-FLOUR. E. G. SMYTH CO., St. Louis, Mo.
Filed July 14, 1920. Serial No. 134,982. PUBLISHED MARCH 1, 1921.

145,816. FERTILIZER. SOCIÉTÉ D'ETUDES CHIMIQUES POUR L'INDUSTRIE, Geneva, Switzerland.
Filed May 22, 1920. Serial No. 132,822. PUBLISHED MAY 10, 1921.

145,817. CERTAIN PHARMACEUTICAL PREPARATION TO BE USED AS AN ANTHELMINTIC. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed November 8, 1920. Serial No. 139,380. PUBLISHED APRIL 12, 1921.

145,818. TITANIUM SULFATE. PETER SPENCE & SONS, LIMITED, Manchester, England.
Filed December 27, 1920. Serial No. 141,534. PUBLISHED MAY 17, 1921.

145,819. RUBBER VEHICLE-TIRES. THE STANDARD TIRE COMPANY, Willoughby, Ohio.
Filed January 5, 1920. Serial No. 126,827. PUBLISHED MAY 10, 1921.

145,820. PNEUMATIC RUBBER TIRES FOR VEHICLES AND RUBBER INNER TUBES FOR PNEUMATIC TIRES. STANDARD FOUR TIRE COMPANY, Keokuk, Iowa.
Filed January 26, 1921. Serial No. 142,813. PUBLISHED MAY 17, 1921.

145,821. RUBBER TIRES AND INNER TUBES. STANDARD FOUR TIRE COMPANY, Keokuk, Iowa.
Filed February 14, 1921. Serial No. 143,574. PUBLISHED MAY 17, 1921.

145,822. LIQUID FUEL-OIL. STANDARD OIL COMPANY, Bayonne, N. J.
Filed November 23, 1920. Serial No. 140,070. PUBLISHED MAY 10, 1921.

145,823. MEDICINE FOR COUGHS, COLDS, AND BRONCHIAL AFFECTIONS. FREDERICK STEARNS & COMPANY, Detroit, Mich.
Filed December 29, 1920. Serial No. 141,653. PUBLISHED MAY 17, 1921.

145,824. SOFT AND STIFF FELT HATS AND CAPS FOR MEN AND BOYS. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed October 9, 1920. Serial No. 138,143. PUBLISHED MAY 17, 1921.

145,825. SOFT AND STIFF FELT HATS AND CAPS FOR MEN AND BOYS. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed October 9, 1920. Serial No. 138,145. PUBLISHED MAY 17, 1921.

145,826. SOFT AND STIFF FELT HATS AND CAPS FOR MEN AND BOYS. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed October 9, 1920. Serial No. 138,146. PUBLISHED MAY 17, 1921.

145,827. HATS FOR WOMEN, MISSES, AND CHILDREN, AND HAT-FRAMES. ROBINSON STRAUS & Co., St. Paul, Minn.
Filed December 13, 1920. Serial No. 141,036. PUBLISHED APRIL 26, 1921.

145,828. HOUSE-PAINTS, VELOUR BLANC, OIL-COLORS, AND ZINC PASTE. SUNSET PAINT COMPANY, Los Angeles, Calif.
Filed January 27, 1920. Serial No. 127,866. PUBLISHED MAY 3, 1921.

145,829. MEN'S NECKTIES AND CRAVATS. SUNSHINE NECKWEAR COMPANY, Los Angeles, Calif.
Filed February 17, 1920. Serial No. 128,534. PUBLISHED MAY 3, 1921.

145,830. STONES FOR TREATING EYE DISEASE. STANISLAW SVIDER, Jackson, Mich.
Filed October 22, 1920. Serial No. 138,697. PUBLISHED MAY 3, 1921.

145,831. A MEDICINE USED IN THE TREATMENT OF TORPID LIVER, CONSTIPATION, KIDNEY AND BLADDER TROUBLES, ANEMIA, HEADACHE, RHEUMATISM, ERUPTIONS OF THE SKIN, PIMPLES, TETTER, MALARIA, CHILLS AND FEVER, AND AS A BLOOD-PURIFIER. DEAN SWIFT, Washington, D. C.
Filed September 11, 1920. Serial No. 137,089. PUBLISHED APRIL 12, 1921.

145,832. DYES IN THE FORM OF INDIGO PASTE. TAH CHANG SEN & Co., Shanghai, China.
Filed May 24, 1920. Serial No. 132,889. PUBLISHED APRIL 26, 1921.

145,833. DYES IN THE FORM OF INDIGO PASTE. TAH CHANG SEN & Co., Shanghai, China.
Filed May 24, 1920. Serial No. 132,890. PUBLISHED APRIL 26, 1921.

145,834. DYES. TAH CHANG SEN & Co., Shanghai, China.
Filed May 24, 1920. Serial No. 132,891. PUBLISHED APRIL 26, 1921.

145,835. DYES. TAH CHANG SEN & Co., Shanghai, China.
Filed May 24, 1920. Serial No. 132,892. PUBLISHED APRIL 26, 1921.

145,836. DYES. TAH CHANG SEN & Co., Shanghai, China.
Filed May 24, 1920. Serial No. 132,893. PUBLISHED APRIL 26, 1921.

145,837. DYES. TAH CHANG SEN & Co., Shanghai, China.
Filed May 24, 1920. Serial No. 132,894. PUBLISHED APRIL 26, 1921.

145,838. ANILIN DYES, A COAL-TAR PRODUCT IN POWDER FORM. EDWIN M. THAYER, Boston, Mass.
Filed September 7, 1920. Serial No. 136,923. PUBLISHED APRIL 26, 1921.

145,839. GENERAL TONIC. THOMPSON AND CAPPER, LIMITED, Liverpool, England.
Filed November 12, 1919. Serial No. 124,822. PUBLISHED APRIL 19, 1921.

145,840. ANTISEPTIC HEALING PREPARATION FOR OPEN SORES AND FOR APPLICATION TO MUCOUS MEMBRANES. CHARLES W. TREVERTON, Scranton, Pa.
Filed December 8, 1920. Serial No. 140,811. PUBLISHED MAY 3, 1921.

145,841. SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. NELS P. TURNBLADH, Duluth, Minn.
Filed October 7, 1920. Serial No. 138,072. PUBLISHED MAY 17, 1921.

145,842. INDUCTANCE-COILS AND WIRELESS APPARATUS. EUGENE T. TURNEY LABORATORIES, INCORPORATED, Holmes, N. Y.
Filed March 9, 1921. Serial No. 144,549. PUBLISHED MAY 3, 1921.

145,843. CERTAIN ARTICLES OF CLOTHING. ROSE E. TYSON, New York, N. Y.; Magnolia, Mass., and Palm Beach, Fla.
Filed November 18, 1920. Serial No. 139,638. PUBLISHED MAY 17, 1921.

145,844. CERTAIN ARTICLES OF CLOTHING. THE UNITED STATES AND SOUTH AMERICA CORPORATION, New York, N. Y.
Filed April 24, 1920. Serial No. 131,611. PUBLISHED MAY 10, 1921.

145,845. OILS, GREASES, AND WAXES OF ALL KINDS AND SIMILAR PRODUCTS FOR LUBRICATING, ILLUMINATING, HEATING, AND FUEL PURPOSES; ALSO GASOLENE. VACUUM OIL COMPANY, New York, N. Y.
Filed August 9, 1919. Serial No. 121,496. PUBLISHED MAY 25, 1920.

145,846. CERTAIN NAMED BEVERAGES, MALT EXTRACTS, MALT SYRUP, MALT TONIC, NEAR BEER, &c. VAL BLATZ BREWING COMPANY, Milwaukee, Wis.
Filed January 17, 1921. Serial No. 142,323. PUBLISHED MAY 17, 1921.

145,847. A MOUTH-WASH FOR USE IN CURING THE TOBACCO HABIT. L. D. VAN CLEAVE, Joplin, Mo.
Filed December 23, 1919. Serial No. 126,401. PUBLISHED APRIL 26, 1921.

145,848. A SALVE FOR INFLAMMATIONS. W. S. VICK CHEMICAL Co., Knoxville, Tenn.
Filed September 9, 1920. Serial No. 137,015. PUBLISHED APRIL 5, 1921.

145,849. HOSIERY. A. V. VICTORIUS & COMPANY, INC., New York, N. Y.
Filed December 24, 1920. Serial No. 141,511. PUBLISHED MAY 17, 1921.

145,850. PACKAGE-CANDY. VOGAN CANDY COMPANY, Portland, Oreg.
Filed December 30, 1920. Serial No. 141,706. PUBLISHED MAY 17, 1921.

145,851. SHINGLES, ROOFING-TILE, ROOFING-SLABS, COMPOSITION ROOFING, AND ROOFING-CEMENT. THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y.
Filed December 14, 1920. Serial No. 141,088. PUBLISHED MAY 10, 1921.

145,852. SHINGLES, ROOFING-TILE, ROOFING-SLABS, COMPOSITION ROOFING, AND ROOFING-CEMENT. THE VULCANITE ROOFING COMPANY, Wilmington, Del., and Buffalo, N. Y.
Filed December 27, 1920. Serial No. 141,543. PUBLISHED MAY 10, 1921.

145,853. VARNISHES. WADSWORTH, HOWLAND & Co. INCORPORATED, Boston, Mass.
Filed September 25, 1920. Serial No. 137,649. PUBLISHED MAY 3, 1921.

145,854. AN OINTMENT FOR CERTAIN NAMED AILMENTS. A. JAE WARD, Lincoln, Nebr.
Filed October 13, 1920. Serial No. 138,270. PUBLISHED APRIL 26, 1921.

145,855. MEDICINAL POWDERS AND TABLETS FOR DISEASES AND DERANGEMENT OF THE STOMACH AND BOWELS. THE WARE CHEMICAL Co., Dallas, Tex.
Filed October 28, 1920. Serial No. 138,934. PUBLISHED APRIL 19, 1921.

145,856. REMEDY FOR DIARRHEA AND OTHER DISEASES OF THE STOMACH AND BOWELS FOR CHILDREN AND ADULTS. THE WARE CHEMICAL Co., Dallas, Tex.
Filed October 28, 1920. Serial No. 138,933. PUBLISHED APRIL 19, 1921.

145,857. POULTRY MEDICINE FOR BLIND STAGGERS, LIMBERNECK, AND CATALEPSY OR SLEEPING-SICKNESS. CARL HEINRICH WEBER, Calumet, Okla.
Filed November 22, 1920. Serial No. 139,999. PUBLISHED APRIL 26, 1921.

145,858. DRESS-PROTECTOR IN THE NATURE OF A BLOOMER-APRON. IDA M. WEISERT, New York, N. Y.
Filed November 26, 1920. Serial No. 140,236. PUBLISHED MAY 3, 1921.

145,859. MONTHLY PERIODICAL. WESCO, INC., Chicago, Ill.
Filed March 29, 1921. Serial No. 145,487. PUBLISHED MAY 10, 1921.

145,860. SHEET-METAL POULTRY-HOUSES AND SMOKEHOUSES OF PORTABLE KNOCKDOWN FORM. WHEELING CORRUGATING COMPANY, Wheeling, W. Va.
Filed January 31, 1921. Serial No. 143,025. PUBLISHED MAY 10, 1921.

145,861. MONTHLY PUBLICATION. THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa.
Filed March 19, 1921. Serial No. 144,988. PUBLISHED MAY 10, 1921.

145,862. ABRASIVE POWDER AND ABRASIVE WHEELS. THE WHITE HEAT PRODUCTS COMPANY, West Chester, Pa.
Filed February 7, 1921. Serial No. 143,304. PUBLISHED MAY 17, 1921.

145,863. A MEDICINE FOR SCOURS. IRA WHITE, Schenectady, N. Y.
Filed January 4, 1921. Serial No. 141,848. PUBLISHED APRIL 26, 1921.

145,864. HOSE OF RUBBER AND COTTON CANVAS DUCK. THE WHITEHEAD BROS. RUBBER CO., Trenton, N. J.
Filed September 11, 1920. Serial No. 137,100. PUBLISHED MAY 3, 1921.

145,865. DYE TO BE USED ON LEATHER AND ARTICLES MADE THEREFROM. WHITTEMORE BROTHERS CORPORATION, Cambridge, Mass.
Filed October 17, 1918. Serial No. 113,783. PUBLISHED MAY 4, 1920.

145,866. GRASS-HOOKS. WIEBUSCH & HILGER, LIMITED, New York, N. Y.
Filed February 21, 1921. Serial No. 143,901. PUBLISHED MAY 3, 1921.

145,867. HAIR-TONIC. FLORA E. WILLIAMS, San Francisco, Calif.
Filed May 22, 1920. Serial No. 132,831. PUBLISHED MAY 3, 1921.

145,868. WATERPROOF, FLAT, OAK-TANNED LEATHER BELTING. I. B. WILLIAMS AND SONS, Dover, N. H.
Filed March 8, 1921. Serial No. 144,492. PUBLISHED MAY 17, 1921.

145,869. A RECONSTRUCTIVE TONIC. P. A. WILLIAMS, Atlanta, Ga.
Filed March 20, 1920. Serial No. 130,003. PUBLISHED JUNE 15, 1920.

145,870. COAL, GAS, AND WOOD FURNACES. THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio.
Filed October 25, 1920. Serial No. 138,795. PUBLISHED MAY 10, 1921.

145,871. CERTAIN NAMED ATTACHMENTS AND DIAPHRAGMS FOR PHONOGRAPHS. SAMUEL B. WILLIAMSON, Westport, Conn.
Filed September 17, 1920. Serial No. 137,297. PUBLISHED APRIL 12, 1921.

145,872. ANTISEPTIC POWDER. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed August 17, 1920. Serial No. 136,221. PUBLISHED APRIL 5, 1921.

145,873. AN ANTISEPTIC MEDICAL SUBSTANCE IN POWDERED FORM. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed August 17, 1920. Serial No. 136,222. PUBLISHED APRIL 5, 1921.

145,874. A SOPORIFIC DRUG PREPARATION CONTAINING CARBON, HYDROGEN, AND OXYGEN. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed August 17, 1920. Serial No. 136,223. PUBLISHED APRIL 5, 1921.

145,875. LUMBER AND TIMBER. WISCONSIN LUMBER COMPANY, Chicago, Ill.
Filed January 2, 1920. Serial No. 126,755. PUBLISHED APRIL 6, 1920.

145,876. MEN'S AND YOUNG MEN'S SUITS, TROUSERS, AND OVERCOATS. WOODHULL, GOODALE & BULL INC., Syracuse, N. Y.
Filed August 27, 1920. Serial No. 136,576. PUBLISHED MAY 17, 1921.

145,877. MEDICINAL TABLETS FOR HEADACHE, INFLUENZA, ASTHMA, AND ACUTE RHEUMATISM. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa.
Filed November 15, 1920. Serial No. 139,700. PUBLISHED APRIL 26, 1921.

145,878. PREPARATION FOR THE TREATMENT OF KINKY HAIR. ZENITH MFG. CO., Atlanta, Ga.
Filed October 29, 1920. Serial No. 138,967. PUBLISHED APRIL 12, 1921.

145,879. MAYONNAISE. JOHN H. ZETZSCHE, New York, N. Y.
Filed January 31, 1921. Serial No. 143,029. PUBLISHED APRIL 26, 1921.

145,880. ANTISEPTIC HEALING-SALVE. MARY ZIELINSKI, Cicero, Ill.
Filed December 23, 1920. Serial No. 141,476. PUBLISHED MAY 17, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

AUGUST 16, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

145,881. (CLASS 31. FILTERS AND REFRIGERATORS.) THE ALLEN FILTER COMPANY, Toledo, Ohio. Filed Nov. 30, 1920. Serial No. 140,423.

MANDLER

Particular description of goods.—Diatomaceous Filters.
Claims use since 1914.

145,882. (CLASS 37. PAPER AND STATIONERY.) A. P. W. PAPER COMPANY, Albany, N. Y. Filed Apr. 8, 1921. Serial No. 145,866.

PURE WHITE

Particular description of goods.—Toilet-Paper, Paper Napkins and Paper Towels.
Claims use since Sept. 27, 1912.

145,883. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMICAL WORKS FLORA, Dubendorf, Switzerland. Filed Aug. 26, 1920. Serial No. 136,508.

FLORA

Particular description of goods.—Natural and Synthetic Oils and Essences Suitable for the Production of Perfumes.
Claims use since May, 1903.

145,884. (CLASS 11. INKS AND INKING MATERIALS.) COLUMBIA RIBBON & CARBON MFG. CO., New York, N. Y. Filed Jan. 17, 1921. Serial No. 142,330.

Columbia

Particular description of goods.—Typewriter-Ribbons.
Claims use since Sept. 1, 1905.

145,885. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE CRANDALL PETTEE CO., New York, N. Y. Filed Apr. 30, 1921. Serial No. 147,012.

"Redimade"

Particular description of goods.—Prepared Cocoa, Milked and Sweetened, Ready for Service with Hot Water Added.
Claims use since 1909.

145,886. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) DOHERTY PHONOGRAPH COMPANY, INC., Chicago, Ill. Filed June 28, 1919. Serial No. 120,046.

Viola-Phone

Particular description of goods.—Phonographs and Parts Therefor and Records and Needles.
Claims use since Jan. 31, 1919.

145,887. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE DOVER MANUFACTURING COMPANY, Dover, Ohio. Filed Mar. 31, 1921. Serial No. 145,501.

DOVER

Particular description of goods.—Electric Sadirons.
Claims use since 1912.

145,888. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) E. I. DU PONT DE NEMOURS & COMPANY, Wilmington, Del. Filed Dec. 15, 1920. Serial No. 141,098.

OLD ENGLISH
PAINT OIL

Particular description of goods.—Paint-Oils.
Claims use since January, 1910.

145,889. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GIACHINI CANDY CO., Chicago, Ill. Filed Mar. 28, 1921. Serial No. 145,332.

Venetian

Particular description of goods.—Candies.
Claims use since July, 1903.

145,890. (CLASS 37. PAPER AND STATIONERY.) GROFF PAPER COMPANY, Minneapolis, Minn. Filed Dec 10, 1920. Serial No. 140,883.

Cornucopia

Particular description of goods.—Paper Napkins.
Claims use since on or about Jan. 15, 1917.

145,891. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE HOLBROOK CO., Hudson, N. Y. Filed June 17, 1921. Serial No. 149,284.

THE HOLBROOK CO.

Particular description of goods.—Vehicle-Bodies.
Claims use for about ten years.

145,892. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) KINNEY MANUFACTURING COMPANY, Boston, Mass. Filed Nov. 30, 1920. Serial No. 140,466.

Kinney

Particular description of goods.—Asphalt and Tar Heaters.
Claims use since July 1, 1907.

145,893. (CLASS 31. FILTERS AND REFRIGERATORS.) KINNEY MANUFACTURING COMPANY, Boston, Mass. Filed Nov. 30, 1920. Serial No. 140,469.

KINNEY

Particular description of goods.—Refrigeration Machinery and Parts Thereof.
Claims use since July 1, 1907.

145,894. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Dec. 18, 1920. Serial No. 141,275.

Miller

Particular description of goods.—Toy Balloons and Sponge-Rubber Balls.
Claims use since Apr. 29, 1916.

145,895. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed May 10, 1921. Serial No. 147,525.

BEST-HOLD

Particular description of goods.—Back and Side Combs, Pompadour-Combs, Barrettes, and Hairpins and Not Composed of Precious Metals.
Claims use since Jan. 1, 1910.

145,896. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) OSBS ZINC WHITE LIMITED, Widnes and London, E. C., England. Filed Feb. 18, 1921. Serial No. 143,777.

ORR'S ZINC WHITE

Particular description of goods.—Zinc-White.
Claims use since about Nov. 18, 1918.

145,897. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PATEK BROTHERS, Milwaukee, Wis. Filed Feb. 23, 1921. Serial No. 143,953.

HIGHEST QUALITY
WEARPROOF

Particular description of goods.—Ready-Mixed Paints.
Claims use since about Sept. 1, 1918.

145,898. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PATEK BROTHERS, Milwaukee, Wis. Filed Mar. 19, 1921. Serial No. 144,981.

HIGHEST QUALITY

Particular description of goods.—Ready-Mixed Paints, Paint Enamels, Paste Paints, Japans, Wood-Fillers, Paint-Driers, Wood-Stains, Lacquers, Calcimines, Cold-Water Paints, Concrete and Cement Paints, Flat Washable Oil-Paints, Paint and Varnish Removers, Floor-Paints, Colors in Oil, Varnishes, Furniture-Polish, Automobile-Body Polish, Floor-Oil, and Polishes Generally for Painted and Varnished Surfaces.
Claims use on ready-mixed paints, paint enamels, paste paints, japans, wood-fillers, paint-driers, wood-stains, lacquers, calcimines, cold-water paints, floor-paints, colors in oil, varnishes, furniture-polish, floor-oil, and polishes generally for painted and varnished surfaces since 1898. Flat washable oil-paints; paint and varnish removers since 1908. Concrete and cement paints, since 1910. Automobile-body polish, since 1914.

145,899. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE PETERS BAIT CO., Knox, Ind. Filed Nov. 9, 1920. Serial No. 139,427.

LINE DRYING CASTING REEL

Particular description of goods.—Fishing-Reels.
Claims use since Aug. 20, 1917.

145,900. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JACOB PETRY, Pittsburgh, Pa. Filed Oct. 11, 1920. Serial No. 138,187.

THE JACOB PETRY RETAINER CO.

Particular description of goods.—Dental Suction-Retainers.
Claims use since 1914.

145,901. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POLLY TRENT CANDY COMPANY, Washington, D. C. Filed Apr. 15, 1920. Serial No. 131,185.

Polly Trent

Particular description of goods.—Candy.
Claims use since Mar. 25, 1920.

145,902. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE H. W. REITHER, Brooklyn, N. Y. Filed Dec. 6, 1920. Serial No. 140,679.

Dr. DEE'S
Celebrated Prescription

Particular description of goods.—A Liquid Medicine for Internal Use for Coughs, Colds, and Bronchitis.
Claims use since July, 1908.

145,903. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LILLIAN E. SCOFIELD, New York, N. Y. Filed Aug. 30, 1920. Serial No. 136,653.

Tintex
TINTS AS YOU RINSE

Particular description of goods.—Dye.
Claims use since Mar. 15, 1920.

145,904. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. K. SMITH & CO., North Baltimore, Ohio. Filed Apr. 21, 1921. Serial No. 146,501.

Shurgud

Particular description of goods.—Coffee.
Claims use since about Mar. 15, 1920.

145,905. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,686.

NORMANDY

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,906. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,687.

HARTFORD

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,907. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,689.

RALEIGH

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,908. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,691.

LORRAINE

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,909. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,693.

WESTMINSTER

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,910. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,696.

MILANO

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,911. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,697.

EDGEMOOR

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,912. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,698.

ISLINGTON

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,913. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,701.

KENILWORTH

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,914. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,702.

MT. VERNON

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,915. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,703.

VERNON

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,916. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,704.

LUZERNE

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,917. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed June 14, 1920. Serial No. 133,707.

WINDERMERE

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since Feb. 1, 1920.

145,918. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Sept. 3, 1920. Serial No. 136,815.

CANTERBURY

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since June 1, 1920.

145,919. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Nov. 5, 1920. Serial No. 139,230.

LANCASTER

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since June 1, 1920.

145,920. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE C. SPENCER, South Bend, Ind. Filed Apr. 4, 1921. Serial No. 145,720.

SPENCER

Particular description of goods.—Perfumes.
Claims use since 1912.

145,921. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) UNKEFER VARNISH COMPANY, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 143,523.

LECLAIRE

Particular description of goods.—Varnishes, Varnish Coatings, Paint Enamels, Paste and Ready-Mixed Paints, and Paint Coatings.
Claims use since Apr. 5, 1919.

145,922. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WADSWORTH, HOWLAND & CO., INCORPORATED, Boston, Mass. Filed Sept. 30, 1920. Serial No. 137,796.

DULTINT

Particular description of goods.—Liquid Paint for Interior Finish.
Claims use since 1909.

145,923. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN WALKER, Redwood City, Calif. Filed Oct. 27, 1920. Serial No. 138,883.

TRY IT FOR Chapped Hands, Scalds, Burns, Sunburns.

Particular description of goods.—A Preparation for Chapped Hands, Scalds, Burns, Sunburn.
Claims use since Jan. 1, 1903.

145,924. (CLASS 37. PAPER AND STATIONERY.) S. D. WARREN COMPANY, Boston, Mass. Filed Mar. 29, 1921. Serial No. 145,423.

CUMBERLAND

Particular description of goods.—Printing-Paper.
Claims use since about Jan. 1, 1912.

145,925. (CLASS 37. PAPER AND STATIONERY.) WHITE & WYCKOFF MANUFACTURING COMPANY, Holyoke, Mass. Filed Mar. 16, 1920. Serial No. 129,816.

Master Makers of Distinctive Social Stationery

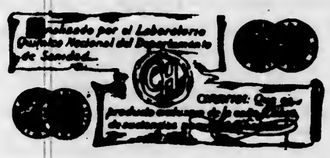
Particular description of goods.—Writing-Paper Tablets, Composition-Books, Note-Books and Memorandum-Books, Stenographers' Note-Books, Block-Pads, Typewriter-Paper, Papeteries, Writing-Paper, Mailing-Envelops, and Correspondence-Cards.
Claims use since Mar. 4, 1920.

INTERNATIONAL TRADE-MARK REGISTRATIONS

AUGUST 16, 1921.

The following International Registrations have been received from the Bureau at Habana and have been placed upon the Register in accordance with the provisions of section 1 (a) of the act of March 19, 1920.

International Registration No. 425 of February 28, 1921. Registered in Cuba on November 6, 1920, No. 35,870. Proprietor: B. CAMP Y CA., S. EN C. Address: J. A. Saco baja No. 40, Santiago de Cuba.



Merchandise to which the mark is affixed.—Rum.

International Registration No. 480 of June 10, 1921. Registered in Cuba on May 5, 1915, No. 30,816. Proprietor: ALLONES LIMITED. Address: Finlay No. 62, Habana, Cuba.



Merchandise to which the mark is affixed.—Cigars.

International Registration No. 481 of June 10, 1921. Registered in Cuba on July 11, 1917, No. 32,806. Proprietor: ALLONES LIMITED. Address: Finlay No. 62, Habana, Cuba.



Merchandise to which the mark is affixed.—Cigars.

International Registration No. 492 of June 20, 1921. Registered in Cuba on May 21, 1917, No. 32,728. Proprietor: SOCIEDAD ANÓNIMA COMPAÑIA NACIONAL DE PERFUMERÍA. Address: Monte No. 314, Habana, Cuba.



Merchandise to which the mark is affixed.—Rice Toilet Powders.

International Registration No. 503 of June 30, 1921. Registered in Cuba on April 21, 1914, No. 30,044. Proprietor: RON BACARDI, S. A. Address: Marina baja Nos. 30 y 32, Santiago de Cuba.



Merchandise to which the mark is affixed.—Rum.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

Circuit Court of Appeals—Seventh Circuit.

HUMMEL & DOWNING CO. *v.* HINDE & DAUCH PAPER CO. *et al.* SAME *v.* KIECKHEFER BOX CO. Nos. 2762, 2763.

Decided March 3, 1921.

1. PATENTS—REISSUE NO. 14,267, FOR PACKAGE-SEALING MACHINE, HELD INVALID AS UNAUTHORIZED.

The Morton reissue patent, No. 14,267, (original No. 1,138,238,) for improvements in package-sealing machines, *Held* invalid as not authorized by any inadvertence, accident, or mistake in the original patent and also as containing new matter.

2. SAME—No. 1,216,175, FOR IMPROVEMENTS IN PRESSES, HELD VOID FOR ANTICIPATION.

The Simpson patent, No. 1,216,175, for press for package-sealing machine, *Held* void for anticipation and lack of invention.

3. SAME—No. 1,228,978, FOR PLATEN CONNECTIONS, HELD VOID FOR LACK OF INVENTION.

The Simpson patent, No. 1,228,978, for improvements in platen connections in package-sealing machines, *Held* void for anticipation and lack of invention.

APPEALS from the District Court of the United States for the Eastern District of Wisconsin.

Suits in equity by the Hinde & Dauch Paper Company and another and by the Kieckhefer Box Company against the Hummel & Downing Company. Decrees for complainants, and defendant appeals. Reversed.

Mr. Arthur L. Morsell for the appellant.

Mr. Max W. Zabel for the appellees.

Before BAKER, ALSCHULER, and PAGE, circuit judges.

PAGE, *Cir. J.*:

No. 2762: On November 10, 1913, one Lawrence D. Morton filed his application for patent upon improvements in package-sealing machines. There was issued to said appellee, The Hinde & Dauch Paper Company, assignee, on May 4, 1915, Letters Patent No. 1,138,238, hereinafter known as the Morton original. On August 5, 1916, Morton petitioned for a reissue of Letters Patent, and Reissue Letters Patent No. 14,267 were, on March 6, 1917, issued to the Hinde & Dauch Paper Company. The Hinde & Dauch Paper Company constituted its co-appellee, Kieckhefer Box Company, licensee under said Reissue Letters Patent.

No. 2763: The complaint alleged that on June 29, 1914, one Simpson filed application for improvements in presses; that Letters Patent No. 1,216,175, bearing date February 13, 1917, were issued thereon to appellee, as assignee; that on the 28th of October, 1914, said Simpson applied for patent for improvements in platen connections; that there was, on June 5, 1917, issued to the appellee, as assignee, Letters Patent No. 1,228,978; that the appellant had infringed.

The cases were tried together and resulted in a decree for appellees (plaintiffs) in No. 2762, finding infringement of claims 9, 10, 11, 12, and 13 of the Morton reissue patent, and, in No. 2763, a decree in favor of appellee (plaintiff) found infringement of claims 2 and 3 of the Simpson patent, No. 1,216,175, and claims 1, 2, and 3 of Simpson patent, No. 1,228,978. These are appeals brought to reverse those decrees.

No. 2762.

1. No history of the Morton invention appears in the record, other than that shown in the file wrappers. The Morton original patent was allowed November 23, 1914, and letters issued May 4, 1915. Each of the ten claims allowed was for a combination embracing a revoluble carrier. The file wrapper shows that the claims filed with the original application covered some of the constituent elements of the individual sealing device, shown in the drawings. It also shows that from time to time other such elements were introduced into the claim. Morton's specifications, with twenty-eight claims,, for the reissue, were supported by an oath. Concerning that oath, the Department said:

> The oath accompanying this application is insufficient, because it fails to set out the alleged defects and insufficiencies with the particularity required by rule 87. • • • The oath alleges that specification does not set forth the general mode of operation with sufficient clarity and that the claims are not sufficiently broad. *Even these general statements do not appear to be borne out by a comparison of the original and reissue applications.*

A new oath was made by Morton. The differences in the wording of the two oaths are shown in the following parallel:

Original.	*Amended.*
1. The claims are unnecessarily limited to a revoluble framework.	1. Each claim, respectively, the claims numbered from 1 to 10, inclusive, has in line 1 thereof either the word "revoluble" or the word "revolving," thus limiting the device to a framework which is rotatable, whereas the rotatable feature of the device is merely incidental.
2. The specification does not set forth with sufficient clarity the general mode of operation of the device.	2. That such errors so particularly specified occurred as follows: The attorney in charge of the prosecution failed to realize during the prosecution that the revolving character of the framework was merely incidental and thus included that unimportant feature as one of the controlling elements in the claims.
3. That such errors so particularly specified occurred as follows: Through the failure of the attorney to have the claims of sufficient breadth on account of a mistake in his understanding of the real mode of operation of the device.	

We are unable to see any difference, in substance, between the two oaths. Morton was asked on the trial:

Q. The oath forming part of your reissue patent sets forth that through inadvertence, accident, or mistake the claims of the original patent were not made broad enough to cover your invention. Can you tell us what that inadvertence, accident or mistake was?

He answered:

That is the language of an attorney, and I would rather not get into it.

An examination of the claims presented, and of those rejected and those allowed, and of the changes made in the specifications filed for the reissue, convinces us that no inadvertence, accident, or mistake intervened in the prosecution of the original Morton application.

The elements composing the combination in claim 9 are as follows: (1) A pair of platens; (2) means for bringing said platens into and out of parallel alined relation; (3) lever and cam mechanism for moving one of said platens relatively to the other when in their alined condition; (4) a stem upon which one of said platens is mounted, said last aforesaid platen consisting of a rigid platelike structure and having edges parallel substantially to the sides of a box structure, so that the loose box end extremities may be folded upon said platen into their overlapping positions; (5) a support upon said stem adapted to hold the lower extending unfolded extremities of said box.

Claim 10 is identical with claim 9, except there is added: (6) a yielding mounting for one of said platens.

Claim 13 is the same as claim 9, except it is not so specific in some respects.

Claim 11 is for (1) a pair of platens; (2) means for bringing said platens into and out of parallel alined relation; (3) an adjustable stop to control said means; (4) means for moving one of said platens relatively to the other when in their alined condition; (5) a stem upon which one of said platens is mounted; and (6) a yielding mounting for one of said platens.

The elements of claim 12 are: (1) A pair of relatively moving platens; (2) a supporting structure therefor whereby relative motion may be imparted to the platens so that a box structure may be placed upon one of said platens without interference from the other platen; (3) means for moving and locking one of said platens whereby said platens are adapted to seal the overlapping ends of a box structure placed therebetween by pressing the overlapping ends between them, and means whereby opposing box flaps may be pressed toward each other prior to sealing.

In claim 9 there is no element that is not very old and that has not been used in combination many times, unless it is the fifth element: "a support upon said stem adapted to hold the lower extending unfolded extremities of said box." The record shows that this element was put upon the modified Muscatine machine some time in 1913. While it is not clearly shown that that was prior to November 10, 1913, when Morton filed his original application, yet it does clearly appear that this element was embraced and used in the modified Muscatine machine six months before it was embodied in any claim by Morton. It further appers that the Morton invention was a package-sealing machine, whereas the support in question really had nothing to do with the sealing operation performed by the machine. It was merely a stop placed at such a distance below the upper surface of the lower platen as would bring the hinge-line between the upper flaps and the sides of the box into the plane of the upper face of the lower platen. The sole purpose of it was to facilitate not an operation of the machine, but a hand operation of turning down the flaps on the head of the lower platen. There is nothing in the record, except the argument, to show that this really added anything even to the hand operation. From the reading of the record it is more than doubtful whether it did or could facilitate such an operation.

We have seen that this machine was particularly designed for use in connection with heavy grades of boxes, made of heavy cardboard, corrugated paper, and the like. The specifications repeatedly use the word "flaps" to distinguish the ends that are turned down. It also appears that the support is so spaced below the face of the lower platen that the "hinge line" is brought to a certain point. It also appears that unskilled labor is used to do the work of sealing. From the nature of heavy cardboard, particularly of corrugated paper and the like, and from the use of the word "flaps" and the words "hinge line," it is altogether probable that the hinge-line referred to was a real hinge made by scoring; if so, then that fixed definitely the point, and the only point, at which the flap could be turned down. It seems obvious that heavy cardboard and corrugated paper could not be otherwise handled without much breakage, and that unskilled labor could not handle such material at all, unless it was scored to make hinges for the flaps; particularly would that be true if the width of the box was so great that the operator could not, in pressing the flap down, cover its whole width with one or both of his hands. If the support added anything to any operation, it added to the hand operation and represented a mere aggregation and not invention. It was never more than a mere rest or stop. The same supports are found in the Wyman patent, No. 731,729, in what seems to us to be substantially the same combination, and likewise in the Jewell patent, No. 600,348, and Weis patents, Nos. 1,095,536 and 1,095,537.

The above discussion fully disposes of claim 10, except as to the provision, "a yielding mounting for one of the platens." This element was clearly present and represented in the spring 17, interposed between the platen and the arms 12ª in Figure 5, Weis patent, No. 1,095,536. It was also clearly present and represented in the coil-springs in the Muscatine machine, as shown in the opinion in case No. 2763.

The discussion of claim 9 fully disposes of claim 13.

Claim 11 contains an element, "an adjustable stop to control said means" of bringing the platens into and out of parallel alined relation. Reading together two widely-separated statements found in appellees' brief, we find that, in reading claim 11 upon the appellant's device shown in drawing A22, it is said that the adjustable stops in claim 11 are the stops 3 and 4 in drawing A22; but elsewhere in discussing claim 11 appellee claims counsel says that the adjustable stops therein are the elements O. The so-called adjustable stops 3 and 4 in A22 are set screws found at the bottom of the stem or shaft carrying the lower platen, and the elements O are the springs shown on the head H (Morton drawing) of which it is said in the old specifications:

During this operation the guides O insure proper registration of the heads G and H, so that, when clamped, all portions of the overlapping flaps are firmly pressed together.

To which was added in the reissue specifications:

Thus the guides O as stated press the overlapping flaps toward each other prior to and up to the time that the platens begin their operation of pressing the overlapping faces together.

We are unable to see in the guides O anything that could possibly control the means for bringing said platens into and out of parallel alined relation.

There are stops F and F' shown at the bottom of the stem in the Morton drawing, which more nearly approach the adjustable screws 3 and 4 in appellant's A22, but they are non-adjustable and there could be no infringement of this element.

Claims 12 contains the element.

means whereby opposing box flaps may be pressed toward each other prior to sealing.

Here, again, appellee's separated arguments must be brought together. In one place appellee says that the elements O represent means whereby opposing box-flaps may be pressed toward each other prior to sealing. These are the same elements O referred to in discussing claim 11. In reading claim 12 upon appellant's structure, it is said that means whereby opposing box-flaps may be pressed toward each other prior to sealing find their equivalent stop 13 (appellant's A22) or the downwardly extending lugs forming a part of the platen in appellant's B23.

Analyzation of the specifications on the method of operation, etc., shows that the arguments and conclusions are unsound. First, the elements O could not at one and the same time find their counterpart in stop 13 (A22) or the downwardly-extending lugs in B23, and also in the set-screws at the bottom of the stem or standard in A22. It is possible that stop 13 (A22), which is adjustably fastened onto the framework and which is designed to come in contact with the box over the outer edge of the lower platen at one point, may be a stop against which, in a hand operation, the box could be pressed by the operator, so as to bring the flaps together. In such case it is a mere stop, and it does not constitute a machine operation by means of which opposing box-flaps are pressed together. The same is true of the downwardly-extending lugs in B23. But a difficulty quite as serious arises in connection with the guides O, which in the original specification were merely to insure proper registration of the upper and lower platen. As above shown, the words,

Thus the guides O as stated press the overlapping flaps toward each other prior to and up to the time that the platens begin their operation of pressing the overlapping faces together,

present a false conclusion. It is wholly new matter in the reissue specifications, and not permissible.

There is a further reason why the argument and conclusions are unsound. There is a clear intimation that the lower platen is the exact size of the interior of the box to be sealed. This is asserted in the argument in case No. 2763. In fact, it would seem to be necessary in order that the package-head may be sealed throughout. From the nature of the operation in the use of heavy cardboard and corrugated-paper boxes, it would be absolutely necessary that there should be scored a hinge-line between the flap and the body of the box, or that the lower platen should be of the exact size of the box. If the hinge-line was scored the flaps would fall or be easily pressed down, bending naturally at the score-line, and the flaps would fall in such a relation to each other as the size permitted or required. The platen would square the box perfectly, with the edge of the platen touching the inside of the box all around, so that there would be neither opportunity nor necessity for any means of squaring the box or pressing the edges of the flaps together. They would be together or apart, just as they were cut. On the other hand, if the platen was not the exact size of the inside of the box, it could only be smaller, and unscored heavy cardboard or corrugated paper could not be bent down over a platen smaller than the box by an unskilled laborer or any one else. If means are used to press opposing box-flaps toward each other prior to sealing, that means is the unpatented and unpatentable hands of men and no part of the appellee's device.

No. 2763.

This suit, heard together with No. 2762, was brought by appellee, Kieckhefer Box Company, upon Patent No. 1,216,175, for which application was filed June 29, 1914, and upon Patent No. 1,228,978, application filed October 28, 1914, and is here to reverse the decree of the district court, finding infringement and sustaining validity of claims 2 and 3 of the first patent and all three claims of the other.

Simpson Patent No. 1,216,175.

(2) Appellee claims in argument that—

the novel feature of this patent rests in the means provided for securing the complete closure of the box ends.

The thing claimed in the specification is:

Downwardly extending lugs are provided at the rear and at one end of the plunger to assist in squaring the box flaps, * * * these lugs having a sufficient length to reach below the plane of the said flaps, when the plunger is in its upper position. Before lowering the plunger the operator presses the box flaps toward the center of the press, and while holding them in this position the lever is thrown.

The language in claims 2 and 3 is:

Downwardly extending lugs along one edge of the plunger against which the box flaps may be forced before lowering the plunger.

Another clause of the specifications is important, viz:

The platen is of a size to just fit within the box.

Appellee gives the operation of the press as follows:

When the stem is swung outwardly * * * the blank box form may be inserted over the platen until the lower box extremities rest upon the arms. The operator then folds two of the flaps inwardly, applies adhesive thereon, and folds the two outer flaps on top. The structure is then swung inwardly to the position * * * directly underneath the platen, so that the inner end of the box form rests against the downwardly extending lugs. * * * During the time that the operator is pulling down the lever so as to force the platen into sealing position the operator exerts by hand a pressure against the upper forward edge of the box form so as to push the box form tightly against the lugs. In this manner the upper opposing box flaps are pressed toward each other prior to sealing in order to thereby get the requisite closure of the box end.

In the Morton specifications, as amended for reissue, it is stated:

My improved machine is particularly designed for use in connection with the heavier grades of knock-down boxes made of heavy cardboard, corrugated paper, and the like. * * * The package or carton which is closed and sealed upon my improved machine comprises rectangular sides hinged to each other at the corners and projecting flaps from opposite ends thereof. In knock-down position the sides and end flaps lie in the same plane.

Taking these matters as claimed, they show:

1. That the means "to assist in squaring the box flaps" as set out in the specifications, viz., "lugs at the rear and at one end of the plunger," were abandoned in the claims in question, and the operation of—

pressing the box flaps toward the center of the press and * * * holding them in this position

was also abandoned in the claims in question.

2. In the specifications the lugs only assisted in squaring the flaps. So far as appears from the specifications, the pressing of the box flaps toward the center and holding them there was done by the operator, wholly unaided by the lugs. In the claims in question a different means, viz., lugs along one edge was claimed and a different purpose claimed, viz, "against which the box flaps may be pressed."

3. If the lower platen is made as specified, viz., "of a size just to fit within the box," then neither the function of the lugs specified, viz., "to assist in squaring the box flaps," nor the function claimed, viz., "against which the box flaps may be forced," could by any possibility be performed because a "platen just to fit" would square the box and the flaps would fall together just as they were cut.

4. Including the lugs as an element in a combination, and not claiming them singly, is an admission that they are not new. In the combination as claimed they could not be useful. The claims are for something not specified.

5. In appellee's operation of the press, as described, the flaps are not pressed against the lugs, nor is there contact anywhere.

Every element in the claims is found in the Morton device, even down to the lugs. The only attempt to point out any difference in this respect between the lugs and the fingers O in the Morton patent is in the following:

> These means are different in manner of detail from those disclosed in the Morton patent.

The contention is made that the lug or stop in appellant's device is the equivalent not only of the Morton fingers, but also of the Kieckhefer lugs. That being true, the Morton fingers and the Kieckhefer lugs must be the equivalent of each other, with the Morton as prior art.

The cartons described in the Morton patent and also in the Kieckhefer patent have identical ends (only one can be sealed on the press). From the uncertainty and lack of harmony between the specifications and the claims in question, when considered in connection with the following language from the Morton specifications, viz:

> Thereafter, the boxes are filled with merchandise and the sealing of the second end presents no particular difficulties

it is doubtful what, if any, purpose either the fingers or the lugs perform.

Simpson Patent No. 1,228,978.

(3) The claim under this patent is that the universal mounting of one of the platens, it does not matter which, is novel and important. The universal mounting has been so long and so variously in use that its use may almost be said to be universal. The press described by Simpson is no more truly a press than is the Lockwood copying-press, Patent No. 438,850, of October 21, 1890, where the universal mounting was used. The plate on the end of the ordinary builder's screw-jack is a very old example of the universal mounting and designed to not only permit the turning of the screw, but the adjustment of the plate to any angularities or irregularities in the contact.

The universal mounting, or perhaps, to be more accurate, the substantial equivalent thereof, was long used in the Muscatine machine. Its use by Simpson added nothing to the art. The Muscatine machine is disposed of by appellee in a very brief argument, which in substance says:

> The machine, according to appellant's testimony, was built in 1901 and used continuously until 1910. The machines then remained idle for three years, until some of them were purchased by Mr. Ziegler, * * * being what might be called an abandoned device.

This argument is not supported by the record. That the Muscatine machine never became commercially known might well be due to the fact that it was made by a user of cartons, not by a maker and vender of them. The Muscatine machine was made by a man doing general carpenter-work in an oatmeal-mill in Muscatine, Iowa, in 1901. It was never patented, but was used continuously for ten years. Then, because of changes in the business, its use was temporarily discontinued. Some time in 1913 it was put into use again, and because it then had added to it rests or arms, upon which the box rested while the upper end was being sealed, was called in the record the "modified Muscatine machine." It is in fact insisted that the last modification was made so recently that it was later than the Morton original application, and therefore does not represent prior art. There is nothing here that indicates abandonment. The record shows continued use and improvement.

The fact that the machine is crude so far as workmanship is concerned can make no difference. It had every element found in the Morton and Kieckhefer machines, excepting only the rotatable feature of the Morton, and possibly the lugs, and did the same work. The record shows that the stem of the Muscatine machine was merely a continuation of the lower platen of that machine, and that it was just the size of the containers that were placed over it, so that those downwardly extending sides of the stem were downwardly extending lugs, and, being the size of the carton, necessarily squared it.

The Muscatine machine antedated the Simpson patents, and the fact that it was made up from old and well-known elements by a man doing general carpenter-work in the Muscatine mill is convincing evidence that the Simpson patents are merely aggregations of old elements, in which no element performs any new function. Neither does the combination.

Both decrees are reversed, and the causes remanded, with instructions to dismiss the bills.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 19, 1921.

The Cachoid Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Bryant, French & Company, 305 South Fifth street, Minneapolis, Minn., for registration of a trade-mark and trade-mark registered December 11, 1906, No. 58,392, to The Cachoid Company, 170 West Seventy-eighth street, New York, N. Y., and a notice of such declaration sent by registered mail to The Cachoid Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Cachoid Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Adverse Decisions in Interference.

PATENT NO. 1,332,860.

On July 18, 1921, a decision was rendered that Alfred A. Wells was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 5, 6, 7, 8, and 9 of his Patent No. 1,332,860, subject, "Coumarone-resin insulating material," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,287,331.

On July 19, 1921, a decision was rendered that John W. Jepson was not the first inventor of the subject-matter covered by claims 1, 2, 3, 4, 5, 6, 7, and 9 of his Patent No. 1,287,331, subject, "Electrical system of distribution," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,359,168.

On July 18, 1921, a decision was rendered that William S. Guthrie was not the first inventor of the subject-matter covered by claim 12 of his Patent No. 1,359,168, subject, "Controlling mechanism for exhaust-gases of internal-combustion engines," and no appeal having been taken within the time allowed such decision has become final.

PATENT NO. 1,329,459.

On July 19, 1921, a decision was rendered that Emeis R. Dunsford was not the first inventor of the subject-matter covered by claims 1 and 2 of his Patent No. 1,329,459, subject, "Machine for feeding sand to molding-flasks," and no appeal having been taken within the time allowed such decision has become final.

Patents Nos. 1,388,155 to 1,388,838.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 289—No. 4. TUESDAY, AUGUST 23, 1921. Price—$5 per year.
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Prints	20	No. 5,693 to No.	5,712, inclusive.
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International Bureau at Habana—Protection of Trade-Marks.

(ORDER No. 2,685.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 6, 1921.

Under the convention adopted for the establishment of the International Bureau at Habana and regulations of such Bureau (280 O. G., 195) it is provided, to carry into effect the convention for the protection of trade-marks, that the legal representative of the administration of the country of origin shall communicate to the International Bureau (articles 2–1) the claim of the owner of the mark.

Hereafter no official abstract of title need be furnished by the applicant, but a fee of $5 must be paid the U. S. Patent Office, which will make the title search and perform the other work in connection with the certificate to the Habana Bureau.

Hereafter the applicant need not fill in the official form for such certificate, but in addition to paying the fee of $5 must provide the Office with (*a*) an international money order for $50 to the order of "Director of the International Bureau, Habana;" (*b*) an electrotype of the trade-mark, not larger than 10 centimeters in either dimension; (*c*) should the United States registration claim color as a distinctive element of the trade-mark he shall furnish thirty copies of the mark printed on paper, reproduced in color; (*d*) a statement including (1) the name of the owner of the mark; (2) the address of the owner of the mark; (3) the number and date of registration of the mark in the United States Patent Office, and (4) a translation into Spanish of the particular description of goods as stated in the certificate of registration.

THOMAS E. ROBERTSON,
Commissioner.

Fee for Recording Articles of Incorporation.

(ORDER No. 2,688.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 9, 1921.

For the present the Patent Office is recording the articles of incorporation of companies, so that their names may be available for trade-mark searchers. This is done at the request of the attorneys and is not advocated by the Office. As long as this practice continues a charge will be made for such record of $1.00 for 300 words or less; $2.00 if over 300 words and under 1,000 words; $1.00 for each additional 1,000 words or portion thereof.

THOMAS E. ROBERTSON,
Commissioner.

Classification Bulletin.

No. 46, containing the revision made during the period from January 1 to June 30, 1921, is now out. Price 10 cents.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Mark section will include: Trade-Marks published under the act of 1905; Trade-Marks registered under the act of 1905 and under the act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

Condition of Applications Under Examination at Close of Business August 13, 1921.

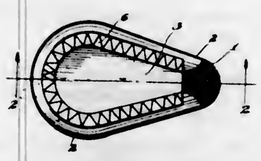
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164	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	Apr. 23	May 20	432
222	12. PIERCE, P. P., Machine Elements	Jan. 4	May 16	1,063
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 27	May 3	1,622
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 15	June 16	895
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Aug. 23	Jan. 15	1,641
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Sept. 22	Jan. 17	1,506
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 11	Apr. 27	895
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 7	Jan. 15	1,668
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 16	Feb. 25	951
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 24	Apr. 9	1,257
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 29	Apr. 22	578
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	Apr. 26	May 20	477
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 16	May 9	789
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 10	Apr. 23	890
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 1	June 8	283
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Jan. 11	Mar. 14	771
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Feb. 25	Apr. 16	1,257
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 7	Mar. 31	1,255
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Jan. 10	June 4	715
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 7	June 11	1,236
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 15	Nov. 8	2,039
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Oct. 5	May 23	1,091
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Feb. 14	Mar. 31	747
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	June 9	June 28	331
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 8	June 29	533
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Mar. 15	Mar. 3	1,543
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 17	Jan. 28	2,153
278	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Mar. 24	Mar. 30	1,175
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Sept. 24	Dec. 22	1,764
273	40. HOPKINS, F. M., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Dec. 27	Mar. 10	2,143
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Jan. 15	Apr. 4	855
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Nov. 15	Nov. 12	2,226
382	43. LANE, C. H., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Nov. 4	Jan. 3	1,396
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Nov. 29	May 17	526
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Feb. 5	Mar. 24	1,123
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Feb. 2	Mar. 2	990
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Dec. 4	Mar. 29	1,124
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Nov. 9	May 5	4,582
	Designs	Nov. 10	Feb. 9	2,115
	Labels and Prints	July 1	July 27	381

Total number of applications awaiting action, excluding Trade-Mark division, 52,680; Trade-Mark division, 7,078.

PATENTS

GRANTED AUGUST 23, 1921.

1,388,155. BEDPAN. EDWIN D. ABRAHAM, Chicago, Ill. Filed Sept. 2, 1919. Serial No. 321,015. 2 Claims. (Cl. 4—10.)



1. A bed pan comprising a substantially oblong outer receptacle tapering at one end and having a substantially flat bottom and side walls extending entirely around the bottom, said receptacle being formed with a flange turned inwardly along the upper edge thereof and extending around the wider end of the receptacle and along the converging sides, thereby providing an opening, and a removable inner receptacle having a body portion inserted through said opening to rest upon the bottom of said outer receptacle, said inner receptacle conforming substantially in outline with said outer receptacle and having its side walls formed with an outwardly turned flange extending along the upper edge thereof, said outwardly turned flange extending entirely around the wider end of the inner receptacle along the converging sides thereof and being arranged to overlie and rest on the inwardly turned flange of said outer receptacle.

1,388,156. FISHING-FLY AND METHOD OF MAKING THE SAME. CHAUNCY W. ALLEN, Sacramento, Calif. Filed July 27, 1920. Serial No. 399,359. 8 Claims. (Cl. 43—48.)

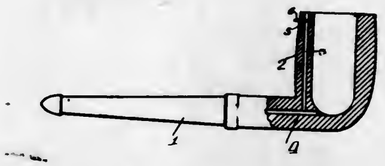


1. The method of making an artificial bait which consists in stripping back the barbs of a feather from tip to quill, securing one end of the feather to a hook, wrapping the feather spirally about the shank of the hook while applying torsion to the shaft of the feather to force the barbs of the feather in an outstanding position, and securing the other end of the feather to the hook.

1,388,157. VANADIUM-CONTAINING IMPACT-TOOL FOR HOT WORK. PERCY A. E. ARMSTRONG, Loudonville, N. Y., assignor to Ludlum Steel Company, a Corporation of New Jersey. Filed Apr. 10, 1919. Serial No. 289,150. 2 Claims. (Cl. 75—1.)

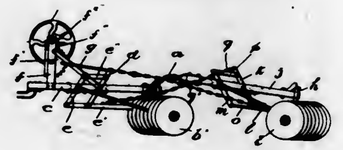
1. Impact tools for hot work of air hardening alloy steel, containing: carbon about .30–.60%, manganese about .30–1%, chromium about 1–1.75%, nickel about 5–6%, and also containing vanadium and the greater part of the remainder iron.

1,388,158. PIPE. JOHN AUSTIN, Geneva, Ohio. Filed Sept. 16, 1919. Serial No. 324,097. 1 Claim. (Cl. 131—12.)



A tobacco pipe including a stem having a passage therein, a bowl opening into the passage and having an air passage in the wall thereof opening at one end into the passage in the stem and at its other end through the top of the bowl, there being a slot extending partly through the wall of the bowl and intersecting the passage in said bowl, a damper pivotally mounted in the slot and normally filling the same, said damper being movable to open or close the passage in the bowl, and a projection on the narrow portion of the damper and extending beyond the wall of the bowl, said projection having opposed finger nail receiving recesses.

1,388,159. DISK HARROW. TORRANCE EDWARD BISSELL, Elora, Ontario, Canada. Filed Aug. 14, 1920. Serial No. 403,551. 7 Claims. (Cl. 55—83.)

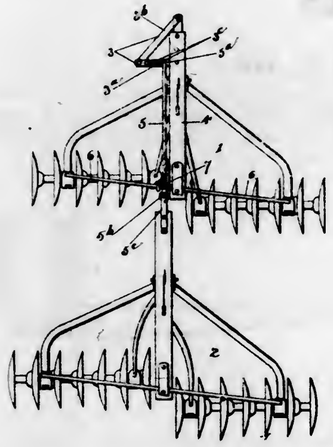


1. A disk harrow comprising a train of harrow units, a set of levers for each unit to angle its respective disk gang, the levers of each set being connected for united movement, operable means having a rigid connection with one of the levers of the front unit, and flexible connections between said lever and the corresponding lever of the unit in rear for simultaneously angling all the disk gangs of the train.

1,388,160. HORIZONTAL ADJUSTABLE DRAFT CONNECTION FOR DISK HARROWS. TORRANCE EDWARD BISSELL, Elora, Ontario, Canada. Filed Nov. 5, 1920. Serial No. 421,927. 6 Claims. (Cl. 55—83.)

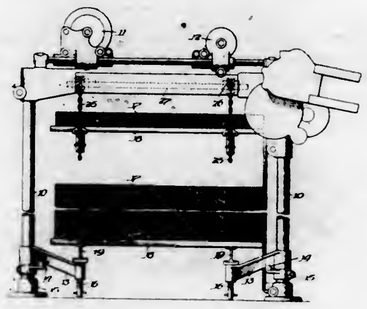
1. A draft connection between units of a tandem disk harrow, comprising a draft member, the front end of which has a laterally adjustable connection with the front unit and the rear end of which has a pivotal con-

nection with the rear unit, and means laterally adjustably holding the rear end of the draft member to the frame



of the front unit for the pivotal attachment of the rear unit.

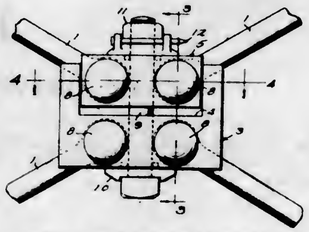
1,388,161. RELOADING FEEDER. JOSEPH R. BLAINE, Oak Park, Ill., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 27, 1917. Serial No. 164,942. Renewed Jan. 17, 1921. Serial No. 437,374. 5 Claims. (Cl. 271—62.)



2. Pile feeding means, comprising in combination, a plurality of standards, swinging arms supported on the standards near the lower ends thereof, and means for lifting a pile between the standards, a second pile being adapted to be supported on said arms while said first pile is being lifted and means carried by said arms for serving as additional supports therefor, substantially as described.

1,388,162. FITTING FOR DIAGONAL BRACES. RICHARD RALPH BLOSS and WILLIAM SCHWEMLEIN, Parkersburg, W. Va., assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a Corporation of West Virginia. Filed Jan. 20, 1921. Serial No. 438,721. 4 Claims. (Cl. 189—20.)

2. A fitting for diagonal bracing members comprising a pair of plates adapted to be arranged on opposite sides of the ends of the bracing members, said plates being provided with recesses, a second pair of plates adjustably mounted in said recesses, means for securing the ends of the braces to one of each pair of plates, and fastening



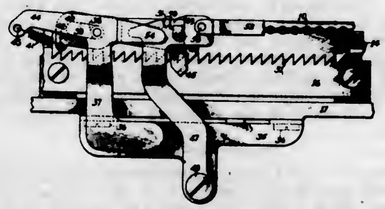
means for retaining said second mentioned plates in said recesses.

1,388,163. NECKTIE-RETAINER. MARTIN J. BOLSTAD, Salt Lake City, Utah. Filed Nov. 17, 1919. Serial No. 338,425. 3 Claims. (Cl. 2—84.)



3. A tie holder comprising in combination with a tie, a single body of substantially triangular shaped sheet material, with its apex portion lowermost and having a substantially triangular shaped central opening symmetrically disposed providing an upper bar about which the tie is tied, said body also having an outwardly extending lug adjacent its lower portion to engage the knotted portion of the tie and cause it to stand outwardly with respect to the holder body, giving the appearance of fullness to the tie.

1,388,164. TYPEWRITING-MACHINE. HERBERT E. BRIDGWATER, Syracuse, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 8, 1921. Serial No. 435,974. 7 Claims. (Cl. 197—91.)



1. In a typewriting machine, the combination of a carriage, a releasable feed rack, a back spacing rack separate and distinct from said feed rack and fixedly connected to said carriage, a rigid back spacing pawl carrier mounted for pivotal movement and also for sliding movement in the direction of the travel of the carriage and provided with a fixedly connected back spacing pawl,

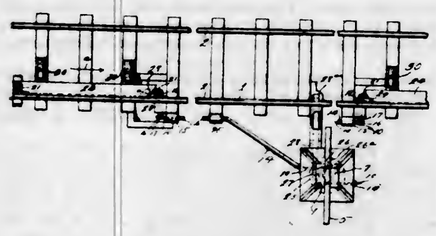
a spring connected directly to said carrier for returning it to normal position, a key actuated lever extending transversely of the sliding movement of said pawl carrier and provided with a cam which coacts therewith to turn said carrier and engage the pawl thereon with the back spacing rack while said spring tends to resist a sliding movement of the carrier, and coacting means between said lever and carrier for affording a movement of one relatively to the other and also for actuating one by the other.

1,388,165. FLASHLIGHT. WILLIAM BRONIE, Brooklyn, N. Y., assignor to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 22, 1919. Serial No. 332,382. 8 Claims. (Cl. 200—60.)



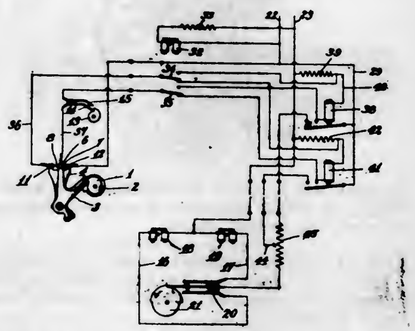
3. A contact device for flashlights comprising in combination a slotted casing, an automatically returning contact member, a circuit controlling member mounted on said casing for both sliding and tilting movement, said member in its tilted position being adapted to shift the contact member to circuit closing position, and a tongue on the casing adapted to form a fulcrum for the circuit controlling member when the same is tilted.

1,388,166. RAILROAD-CROSSING SIGNAL. GEORGE C. BRONSON and MERLE C. ST. CLAIR, Newcastle, Ind. Filed Mar. 8, 1921. Serial No. 450,796. 1 Claim. (Cl. 246—299.)



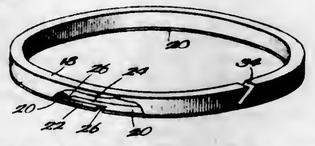
A train operated signal comprising wheel engaging treads spaced from each other and a signal disposed intermediate said treads, arms carried by said signal and extending in opposite directions, cables connected to the ends of said arms, said cables extending through conduits, spring means normally maintaining the signal in normal position, the ends of said cables being connected to upstanding arms of levers, said levers being rockably mounted in bearings and provided with horizontally disposed oppositely extending arms, rods pivoted to the ends of said arms and extending upwardly, the tread members located adjacent a rail and loosely pivoted at one of their ends, the adjacent ends of the tread members having loose connections with the upper ends of the upwardly extending rods carried by the horizontally disposed arms of the levers, spring means for normally holding the treads in engagement with the rail, a lever pivoted adjacent the rail, a lug carried by the signal and forming a stop, one end of said lever being disposed adjacent the rail and adapted to be engaged by a flange of a wheel, said lug being so positioned that when either of the signal actuated mechanisms is actuated the signal will be held against retrograde movement, said lever forming means whereby when the train passes the signal, said signal will be released and allowed to return to normal position.

1,388,167. SYNCHRONIZING-CLOCK SYSTEM. JAMES W. BRYCE, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed Dec. 30, 1920. Serial No. 433,976. 3 Claims. (Cl. 58—24.)



1. In a synchronizing clock system, the combination with a source of operating current, of a master clock, a circuit from the source to the same, a relay, a resistance and a circuit controller operated by the master clock in such circuit, said circuit controller being adapted to close such circuit for definite intervals of time, means operated by the relay for closing the circuit from the source through said resistance and its own magnet and for connecting said source to the line, and means operated by the master clock for throwing said relay out of action at the end of the periods of closure by the circuit controller therein.

1,388,168. COMPRESSION-SEAL FOR PISTONS. EARL J. BULLARD, Madison, Wis. Filed Oct. 13, 1920. Serial No. 416,685. 2 Claims. (Cl. 74—109.)



2. In mechanism of the class described, in combination with a piston having a circumferential ring seat of substantial width, a ring of any suitable construction occupying most of the width of the ring seat and a relatively thin ring made of relatively soft metal having a circumferential expansion joint, interposed between the wide ring and the ring seat wall and held in place by the wider ring to make an effective compression seal, and a spring ring occupying the space between the other side of the wider ring and the ring seat.

1,388,169. PROCESS OF TREATING MATERIALS WITH CELLULOSE DERIVATIVES. JOSEPH J. BYERS, Brookline, Mass., assignor to Products Syndicate, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Apr. 19, 1916. Serial No. 92,320. 12 Claims. (Cl. 91—70.)

10. The method of improving material which consists in impregnating it in the presence of heat with a solution of a cellulose derivative and a non-oxidizing oil.

1,388,170. RETRACTOR. WILLIAM J. CAMERON, Chicago, Ill. Filed Oct. 26, 1918. Serial No. 259,767. 6 Claims. (Cl. 128—16.)

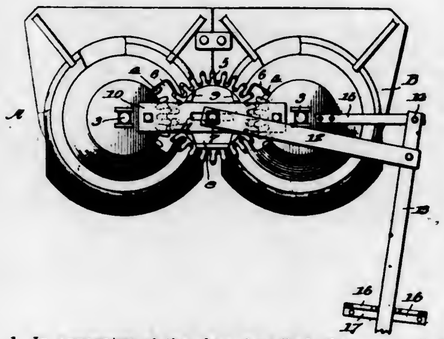
1. The combination with a retractor having a pair of separable arms, a hinge one element whereof is secured to one of said retractor arms, means for holding the elements of said hinge in desired positions, a tongue

depressor, a carrier securing said tongue depressor to the movable element of said hinge whereby said tongue



depressor may be moved longitudinally, and means permitting the pivotal movement of the tongue depressor in horizontal and vertical planes.

1,388,171. TWIN PLANTER. EUGENE M. COLE, Charlotte, N. C. Filed Jan. 14, 1920, Serial No. 351,279. Renewed June 20, 1921. Serial No. 479,085. 7 Claims. (Cl. 74—58.)



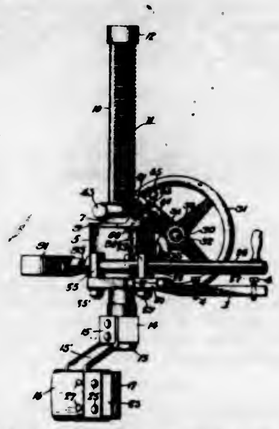
1. In apparatus of the class described, the combination with a pair of operating gears, of a driving gear mounted between the operating gears, and means for shifting said driving gear laterally, in its own plane, into mesh with either one of the operating gears, or simultaneously with both of said gears, as desired.

1,388,172. VETERINARY SURGICAL APPLIANCE. SIMON M. CRADDOCK, Roosevelt, Okla. Filed Mar. 18, 1920. Serial No. 366,895. 1 Claim. (Cl. 128—348.)



A device for the relief of bloat in cattle comprising an elongated and tapered body having a longitudinal central bore therethrough, said body being adapted to be inserted with its smaller end first through an opening in the abdominal and stomach walls of an animal formed by means of a trocar, the larger end of the body being formed with a diskal flange, and longitudinal fingers on the flange extending in a direction toward the said smaller end of the body, the free ends of the fingers being provided with barbs for penetration in the tissues of the opening in the animal's body.

1,388,173. DISCHARGER FOR SUGAR-CENTRIFUGALS. EDMUND DANIELS, Lahaina, Maui, Hawaii. Filed Aug. 23, 1920. Serial No. 405,542. 16 Claims. (Cl. 210—70.)

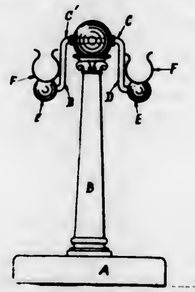


1. A discharger for sugar centrifugals, comprising a fixed bracket, a collar rotatably secured therein, a spindle mounted for vertical movement in and rotary movement with said collar, a semi-circular rack on said spindle, driving gear journaled on said bracket and meshing with said rack, and a plow fixed to the lower end of the spindle.

1,388,174. COMPOSITION OF MATTER AND PROCESS OF MAKING SAME. HENRY W. DENNY, Evanston, Ill. Filed Sept. 29, 1919. Serial No. 327,273. 6 Claims. (Cl. 99—11.)

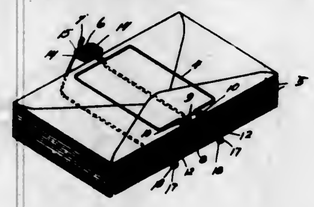
1. A sense-stimulating composition of matter for impregnating purposes, which is solid at ordinary temperatures, comprising, a jellifying material having substantially uniformly ad-mixed therewith, a sense-stimulating substance proper previously placed in solution, the composition of matter being liquefiable in the substance to be treated to thereby permit the impregnation of the substance by said dissolved sense-stimulating substance proper.

1,388,175. PENHOLDER-SUPPORT. JOSEPH J. DESMOND, Corry, Pa. Filed Dec. 26, 1919. Serial No. 347,485. 2 Claims. (Cl. 120—108.)



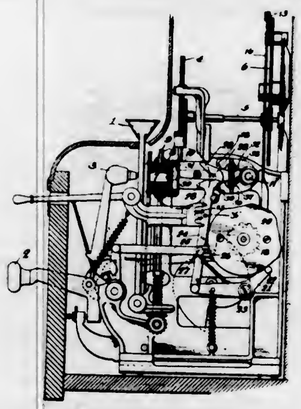
1. In a device of the class described, a weighted base, a vertical post secured to the base, a pair of rods pivoted transversely at opposite sides of the upper end of the post, a weight secured on the lower end of each of the rods and a spring clip mounted on each of the weights.

1,388,176. PACKAGE-TIE. GEORGE F. DILLON, McLouth, Kans. Filed Oct. 25, 1920. Serial No. 419,262. 8 Claims. (Cl. 24—17.)



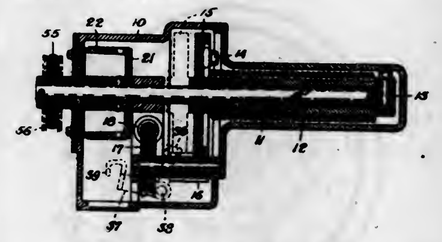
5. A package tie comprising a frame member adapted to be applied to one side of the package, one end of said frame being provided with a pair of spring arms lying normally in substantially coplanar relation to said frame, a second frame member pivotally connected at one end to said arms for swinging movement in either direction with reference to said arms, said second frame having a spring-hinge structure coöperating with said arms to maintain said second frame normally in a flat outline, and means for detachably connecting the free ends of said frames with said second frame at either side of said first frame.

1,388,177. THREE-RIBBON RECORDER. FRANK B. EELLS, Chicago, Ill., assignor to International Time Recording Company of New York, a Corporation of New York. Filed July 26, 1919. Serial No. 313,579. 11 Claims. (Cl. 234—41.)



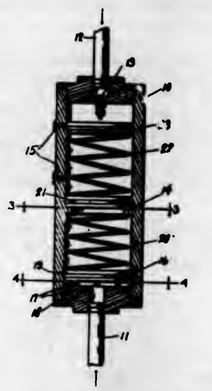
1. In a workman's time recorder, the combination with a multicolored inking ribbon and a movable carrier therefor, of a lever having a movable pivotal support and which is adapted by its engagement with the ribbon carrier to raise or lower the same according to the elevation of its pivotal support, a time controlled cam mechanism including a high cam surface, a low cam surface, and an intermediate cam surface, for varying the elevation of said pivotal support and a printing means which, when operated, brings the said lever into engagement with the carrier.

1,388,178. ENGINE-STARTER. JOHN W. ESTERLINE and DONALD J. ANGUS, Indianapolis, Ind., assignors to Tidewater Equipment Corporation, Portland, Me., a Corporation of Maine. Filed May 4, 1917. Serial No. 166,342. 11 Claims. (Cl. 185—41.)



11. In an engine-starter, a starting spring, mechanism including an electric motor arranged to wind said spring at one end, a rotatable member connected to the other end of said spring to transmit the starting motion from the latter, brake mechanism arranged to restrain said rotatable member, means including trip mechanism arranged normally to hold said brake mechanism in brake-applying position, controlling means arranged to trip said trip mechanism to release the brake, said controlling means being arranged to be actuated for the purpose stated by the prolongation of said starting spring in consequence of winding said starting spring to a predetermined degree, and a switch adapted to open and close the circuit of said motor, said controlling means being arranged to operate said switch.

1,388,179. VALVE. ROBERT LEE EVANS and HUGH LEONARD ROBERTS, Roanoke, Va. Filed Nov. 10, 1920. Serial No. 423,202. 5 Claims. (Cl. 116—55.)

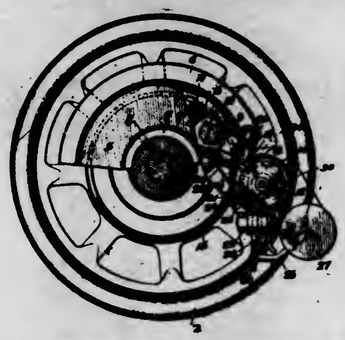


1. A device of the class described comprising a cylinder connected with the brake cylinder, signal means associated with the first mentioned cylinder and means in said first mentioned cylinder for operating the signal means, said means being actuated by the pressure in the brake cylinder caused by the leakage of air therein and said means being rendered inactive when the full pressure is admitted to the brake cylinder to apply the brakes.

1,388,180. BOBBIN-WINDER FOR SEWING-MACHINES. JAMES ALEXANDER FLANAGAN, Toronto, Canada. Filed Apr. 30, 1919, Serial No. 293,663. Renewed June 15, 1921. Serial No. 477,720½. 4 Claims. (Cl. 242—22.)

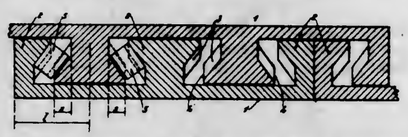
1. A bobbin winder for sewing machines, comprising a pivoted arm adapted to oscillate between an operative and an inoperative position, a bobbin spindle mounted

in said arm, a friction wheel on said spindle adapted to receive motion from the fly-wheel of the sewing machine to turn the spindle, a pivoted latch to yieldingly engage said arm and hold the friction wheel in operative



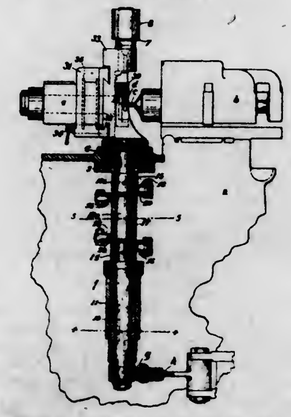
relation with the fly-wheel, and a stationary abutment opposed to the bobbin spindle and engaged by the thread wound on the bobbin as the winding proceeds to actuate the arm to displace the latch and then move said arm from its operative to its inoperative position.

1,388,181. BUILDING-WALL. LOUIS HENRI GUIMONNEAU, Le Raincy, France. Filed Jan. 22, 1920. Serial No. 353,159. 2 Claims. (Cl. 72—38.)



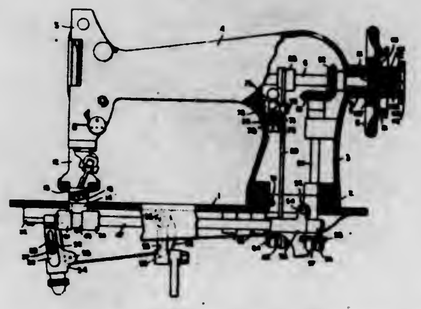
1. A dismountable wall which comprises in combination blocks with vertically and horisontally staggered joints, provided on one face with a plurality of tenons which are placed between the tenons of similar blocks oppositely arranged and which have inclined faces adapted to form with the opposite inclined faces of the opposite blocks downwardly tapering chambers and wedges with correspondingly inclined faces inserted in said chambers.

1,388,182. GRINDING-MACHINE. BENGT M. W. HANSON, Hartford, Conn. Filed Dec. 6, 1919. Serial No. 342,912. 9 Claims. (Cl. 51—97.)



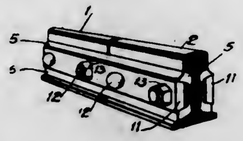
1. In a grinding machine, an oscillating work holder, a bearing supporting said holder, oscillating mechanism, and a flexible shaft forming a connection between said work holder and oscillating mechanism.

1,388,183. FEEDING MECHANISM FOR SEWING-MACHINES. THOMAS J. HAYES, Roslindale, Mass., assignor to Arbetter Felling Machine Company, Boston, Mass, a Corporation of Maine. Filed Jan. 4, 1917. Serial No. 140,522. 17 Claims. (Cl. 112—178.)



1. In a sewing machine comprising a stationary bed plate, an overhanging arm and stitch forming mechanism carried thereby, feeding mechanism including a pair of rock shafts, means for yieldably supporting the same at one end relatively to the stitch forming mechanism and said bed plate, means for pivotally supporting said shafts at the opposite end, a feed dog operating through an aperture in said bed plate, means for supporting said feed dog from said rock shafts and means for oscillating said rock shafts to actuate said feed dog.

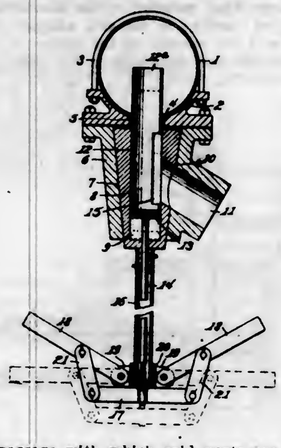
1,388,184. RAILWAY-RAIL JOINT. JACOB A. HYLE, Philadelphia, Pa. Filed May 26, 1921. Serial No. 472,755. 7 Claims. (Cl. 238—244.)



2. A rail joint of the character described, comprising track rails, a splice bar provided with thickened heavy upper and lower members and thinner web portions connecting said members only at and near each end thereof with a recess formed within its outer face, and means for causing said upper portion to be flexed tightly against the tread portion of the rails between said web portions.

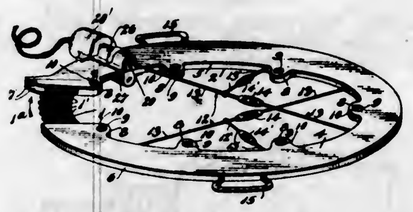
1,388,185. FEED-REGULATOR FOR POWDERED FUEL. WILLIAM P. KEYSER and JOHN A. MOORE, Richland district, W. Va. Filed June 10, 1919. Serial No. 303,074. 3 Claims. (Cl. 302—28.)

1. A feed regulator for powdered fuel, comprising a supply conduit for conveying the air and powdered fuel, said conduit having an opening in the under side thereof, a valve casing attached to said conduit and having a cone seat therein, a cone valve rotatable on said seat, a central socket in said valve disposed in register with the opening in the conduit, a tubular member fitted in said socket with its upper end extending into the interior of said conduit for intercepting and conducting downward some of the fuel, and means for adjusting the elevation of said member for disposing the receiving end of the latter at various levels within said conduit, said member and said valve having registering ports, and said valve casing having a



discharge passage with which said ports are adapted to register.

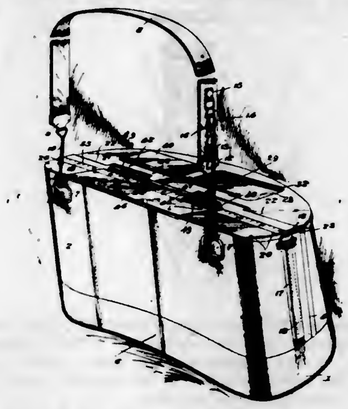
1,388,186. PORTABLE-SAW DEVICE. THOMAS MCCORMICK, Klamath Falls, Oreg. Filed July 7, 1920. Serial No. 394,422. 2 Claims. (Cl. 143—44.)



1. In a portable saw, the combination with an annular saw blade having its outer edge provided with cutting teeth, of a casing therefor comprising arcuate bottom and top plates provided with inner and outer edge walls spacing said plates to receive the saw blade therebtween, the operative portion of said saw blade being exposed between the ends of said casing, pairs of opposite projections extending radially inward from the inner edges of said plates and having alined circular openings therein, disks journaled in said openings, a bolt eccentrically mounted in the disks of each pair of projections, a guide roller journaled on each bolt between said plates and engaging the inner edge of said saw blade, said bolts constituting the means for securing said plates together and said guide rollers being adjustable radially with respect to said saw blade by rotating said disks, and means mounted on said casing for rotating said saw blade.

2. In a portable saw, the combination with an annular saw blade having its outer edge provided with cutting teeth, a casing forming an arcuate runway for said blade, the operative portion of said blade being exposed between the ends of said casing, means mounted on said casing for rotating said saw blade, a pair of adjustable main brace members connected at one end of the inner edge portion of said casing adjacent to and on opposite sides of the opening between its ends, said members crossing each other and connected at their opposite ends to the casing opposite the opening between its ends, and an adjustable auxiliary brace member extending at substantially right angles to each main brace member and having one end connected thereto and the other end connected to said casing.

1,388,187. CREEL OR TROUT-BASKET. WEBSTER L. MARBLE, Gladstone, Mich. Filed Apr. 17, 1920. Serial No. 374,577. 4 Claims. (Cl. 43—31.)

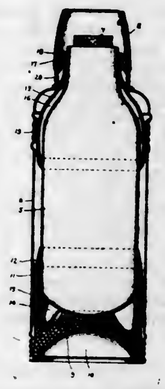


1. A creel or trout basket having a cover provided with an opening for the introduction of the fish, a snap-catch for the cover and an inwardly swinging automatically closing door or cover for said opening, said door being of smaller size than the opening, whereby a part of the opening is uncovered.

1,388,188. ART OF ANNEALING. PAUL A. MEEHAN, New Castle, Pa., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 20, 1920. Serial No. 375,271. 2 Claims. (Cl. 148—6.)

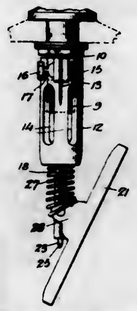
1. The improvement in the art of annealing acid pickled articles held by metallic supports which consists in neutralizing acid retained on such articles by acid neutralizing material supplied in the form of a coating to said supports from time to time.

1,388,189. THERMOS BOTTLE. GEORGE S. MEIKLE, New York, N. Y. Filed Nov. 4, 1919. Serial No. 335,641. 10 Claims. (Cl. 215—13.



1. In a thermos bottle, a container, a frangible filler, and yielding means for supporting the filler in the container said means providing air pockets under the bottom and at the side of the filler against which the filler rests and which serve to form air cushion supports for the filler.

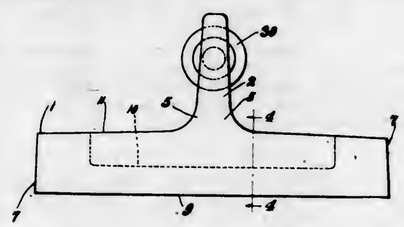
1,388,190. MOTOMETER-GUARD. GEORGE B. MEAS, Charleston, W. Va. Filed Sept. 23, 1920. Serial No. 412,349. 5 Claims. (Cl. 220—39.)



1. A device of the character described comprising a holding member for the motometer, a bolt resiliently connected to said holding member, and a cross-bar for securing the holding member to the radiator mounted on said bolt, substantially as set forth.

5. A device of the character described comprising a holding member for the motometer having a downwardly projecting rigid portion, an inverted T-shaped locking element loosely connected to said rigid portion and adapted for convenient application to a motor radiator, and means for automatically rendering the locking element rigid when in applied position, substantially as set forth.

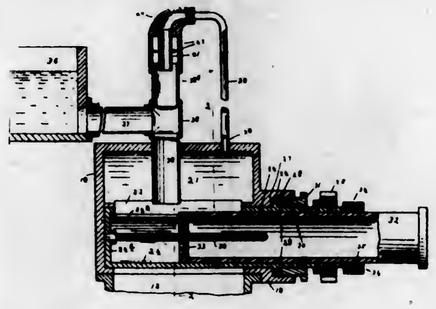
1,388,191. HOE. JOHN F. NEWMAN, Kansas City, Mo. Filed June 21, 1920. Serial No. 390,495. 1 Claim. (Cl. 55—99.)



A hoe comprising a blade and a shank projecting from the blade in direct alinement therewith, the blade being in the form of a narrow strip of relatively small width measured longitudinally of the shank and being of relatively great length measured transversely of the shank, the shank being increased in width at the place where it joins the blade, the blade tapering in thickness from its central portion to its ends to define terminal cutting edges, and being wedge-shaped in cross section, to define a lower cutting edge, the blade being tapered along its ends and in its lower portion, whereby said edges will hold their sharpness, the blade embodying an untempered portion located at the place of juncture between the shank and the blade and extended well toward the ends of the blade to prevent a rupture at the place of juncture between the shank and the blade due to the strain produced by the relative length of the blade, said untempered portion offsetting any weakness resulting from the fact that the blade is narrow.

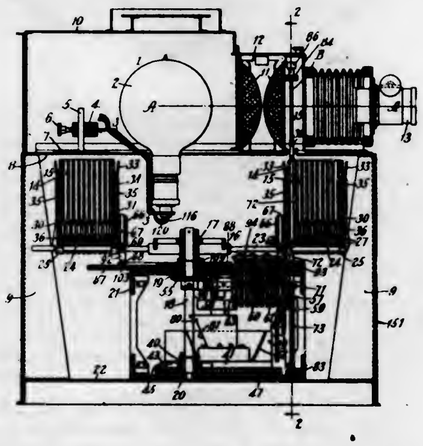
1,388,192. MEASURING DEVICE. GEORGE J. OLNEY, Westernville, N. Y. Filed Dec. 6, 1920. Serial No. 428,751. 4 Claims. (Cl. 99—2.)

1. In a measuring device the combination of a casing having a cylindrical measuring chamber, a supply chamber thereabove, a large opening leading from the supply chamber to the measuring chamber, a passage leading from the bottom of the measuring chamber, a main air escape leading from the said passage, a hollow cylindrical measuring valve revolubly mounted in the measuring chamber and having an opening in its side adapted to register alternately with the opening in the bottom of the supply chamber and with the passage from the measuring cham-



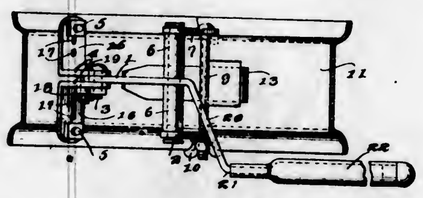
ber, a supply tank above the supply chamber, a supply pipe leading therefrom nearly to the bottom of the supply chamber and an air escape pipe leading from the upper part of the supply chamber to the atmosphere about the level of the liquid in the supply tank and adapted to return liquid carried along with said air to the supply of liquid.

1,388,193. PROJECTING APPARATUS. GEORGE L. W. PALMER, Plainfield, N. J. Filed Jan. 10, 1920. Serial No. 350,539. 33 Claims. (Cl. 88—27.)



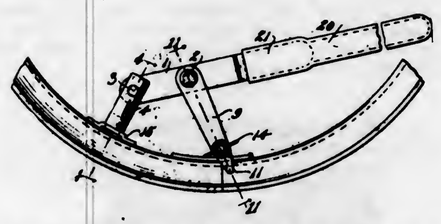
1. A projecting apparatus having in combination, instrumentalities for projecting luminous rays, a carrier constructed and arranged to rotate in a plane substantially parallel with the axis of said rays, a plurality of transparency containers mounted upon said carrier each adapted to hold a plurality of transparencies, means to feed said transparencies consecutively from each of said containers into the path of said rays, and means to move said carrier after a plurality of transparencies have been fed consecutively from a container into the path of said rays.

1,388,194. RIM-OPERATING TOOL. LOUIS H. PERLMAN, New York, N. Y., assignor to General Motors Corporation, a Corporation of Delaware. Filed Feb. 23, 1917. Serial No. 150,490. 5 Claims. (Cl. 157—1.)



1. A fulcrum post for a cross-cut rim manipulating tool comprising radially disposed plates each having an angularly extending arm, and rim engaging pins adjustable along the arms.

1,388,195. DEMOUNTABLE-RIM-OPERATING TOOL. LOUIS H. PERLMAN, New York, N. Y., assignor to General Motors Corporation, a Corporation of Delaware. Filed Aug. 16, 1917. Serial No. 186,524. 3 Claims. (Cl. 157—1.)



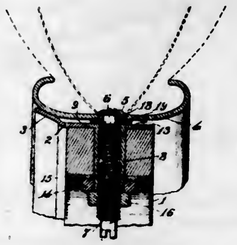
3. An operating tool for manipulating a cross-cut demountable rim comprising a fulcrum post having a button at one end of greater length than width and having a shouldered portion spaced from the button for enabling the button to be inserted in a slot through a portion of the rim and to be rotated beneath the material of the slot so that the terminals of the button will underhang such material while the shoulder overhangs the material, and means engaging the fulcrum post for shifting one end of the rim relative to the other, the said button being formed with a parti-globular face.

1,388,196. RIM. LOUIS H. PERLMAN, New York, N. Y., assignor to General Motors Corporation, a Corporation of Delaware. Filed Nov. 1, 1919. Serial No. 334,919. 3 Claims. (Cl. 301—33.)



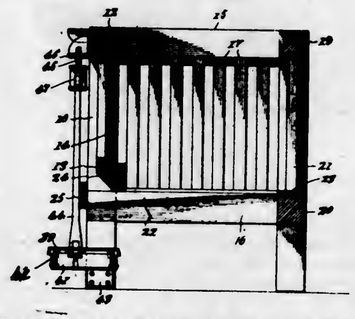
1. In a rim structure, the combination of a cross-cut demountable rim and a pair of levers, one arranged outside of each side flange of the rim and each lever pivoted at an intermediate point in its length to the rim adjacent one terminus of the rim and pivoted to an intermediate portion of the rim at one terminus of the lever, each lever having a free portion extending beyond its first-mentioned pivot and the free portion being offset laterally for receiving the socket of an operating tool.

1,388,197. WHEEL. LOUIS H. PERLMAN, New York, N. Y., assignor to General Motors Corporation, a Corporation of Delaware. Original application filed June 24, 1916, Serial No. 105,693. Divided and this application filed Nov. 8, 1919. Serial No. 336,596. 4 Claims. (Cl. 301—21.)



1. The combination, with a wheel body and a demountable rim therefor, of an internally threaded sleeve extending through a portion of the wheel body, and having means of engagement therewith, resisting inward travel of the sleeve, and a nut threaded on to the inner portion of the sleeve, and contacting with a portion of the wheel body for preventing outward travel of the sleeve, a bolt threaded into the sleeve and extending in position to engage and sustain the demountable rim on the wheel body, and a nut threaded on the inner portion of the bolt, and disposed to be threaded into contact with the first-mentioned nut.

1,388,198. VEGETABLE AND FRUIT DISPENSER. FRANK PHILIPPS, Hammond, Ind. Filed Mar. 26, 1921. Serial No. 455,809. 6 Claims. (Cl. 211—9.)

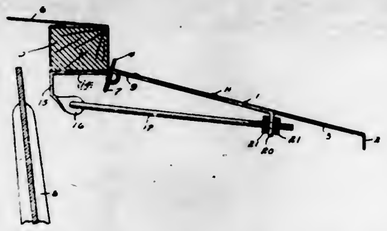


1. In a dispensing device, a hollow body adapted to receive articles to be dispensed and provided with a forwardly inclined bottom forming a chute, a gate closing the outer end of the chute, a pedal mounted upon the side of the body and connected to the gate for swinging the same into open position upon depression of the pedal, and a scale platform mounted within the forward end of the body portion beneath said gate for supporting a container in position to receive articles from the spout.

1,388,199. AUTO ADJUSTABLE SUNSHADE. EARL V. POWERS and WILLIAM J. BOYD, St. Louis, Mo. Filed Mar. 7, 1921. Serial No. 450,161. 1 Claim. (Cl. 296—95.)

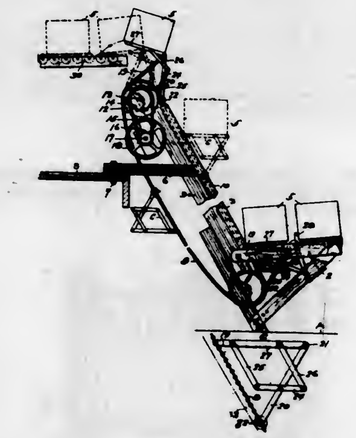
A sheet-metal sun-shade having hinges at its rear edge, by means of which it is to be supported entirely by the attachment of said hinges to the front bow or cross-bar of an automobile top; perforated brace-arms projecting downwardly from the rear of said hinges; perforated ears at the front ends of said hinges; brace rods pivoted at their rear ends to the said perforated brace-arms and

having their forward ends screw-threaded and mounted in the perforations of said perforated ears; and nuts on



said threaded portions of said braces, on each side of said perforated ears.

1,388,200. BOX OR PACKAGE HANDLING APPARATUS. WILLIAM G. PRICE, Yakima, Wash. Filed Sept. 10, 1919. Serial No. 322,810. 3 Claims. (Cl. 193—8.)

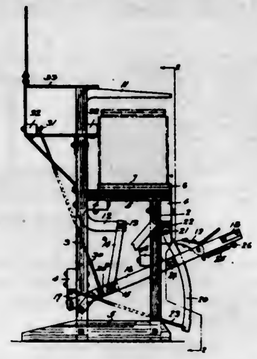


1. In package handling apparatus, the combination of an endless traveling chain conveyer, a bracket carried thereby comprising arms and braces pivotally mounted at their inner ends on said conveyer and connected at their outer ends, load supporting members carried by said arms and braces normally in a horizontal position, and means for elevating the outer ends of said supporting members when the inner ends of said arms and braces approach each other as said conveyer moves around the upper sprocket wheels.

1,388,201. FRUIT-BOX PRESS. WILLIAM G. PRICE, Yakima, Wash. Filed Nov. 10, 1919. Serial No. 336,825. 7 Claims. (Cl. 100—57.)

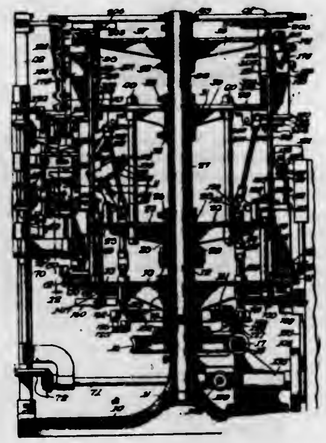
2. In a fruit box press, the combination of a box-receiving support, a pair of U-shaped press members, each of which has one arm extending above the said support and its other arm extending beneath the said support, means for vertically reciprocating the said members, and compression-resisting means attached to said U-shaped members for spacing apart the upper portions of the said members.

7. In a fruit box press, the combination of a frame, a box-receiving support, and a yoke vertically movable in the said frame and rigidly carrying pressure arms extending over the said box-receiving support, the said yoke and the said arms being adapted to tilt laterally as a unit to bring both of the said arms into engagement



with boxes that are of different heights at their two ends.

1,388,202. AUTOMATIC FIBER-CONTAINER MACHINE. WILLIAM HARRY RAY and PAUL BANCROFT PIERCE, Monroe, Mich., assignors to the Weis Fibre Container Corporation, Monroe, Mich., a Corporation of South Dakota. Filed Nov. 7, 1917. Serial No. 200,849. 50 Claims. (Cl. 93—36.)

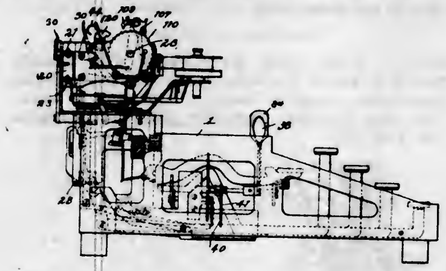


1. A machine for folding and securing the top and bottom flaps of containers, comprising means to carry the containers along successive paths of travel, a first group of devices associated with one path of travel to operate upon the top flaps, mechanism to automatically transfer the containers from the one path of travel to the other, and a second group of devices associated with said other path of travel to operate upon the bottom flaps.

1,388,203. TYPEWRITER. LYMAN R. ROBERTS, Rutherford, N. J. Filed Aug. 22, 1917. Serial No. 187,596. 15 Claims. (Cl. 197—72.)

1. In a typewriter, a platen carriage, a plurality of case shift levers, lifting mechanism for the carriage operable by either of said case shift levers, an abutment engaged by part of said lifting mechanism upon operation of one of said case shift levers, a slotted plate having a spacing lug associated therewith, and a pin associated

with the other case shift lever to ride in said slot and move the plate to interpose the spacing lug between the



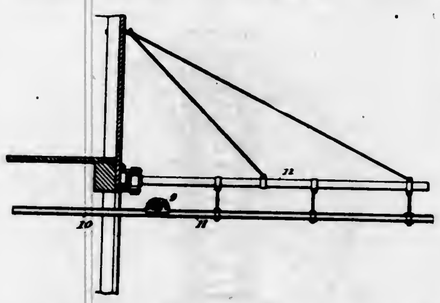
lifting mechanism and said abutment upon operation of said last named case shift lever.

1,388,204. TOILET ARTICLE. WILLIAM HERBERT ROYSTONE, New York, N. Y. Filed Aug. 7, 1920. Serial No. 402,003. 7 Claims. (Cl. 132—82.)



1. A toilet powder packet comprising a compressed mass of toilet powder having a covering of pervious fabric sufficiently loose to admit of its being moved over the surface of the inclosed mass by rubbing.

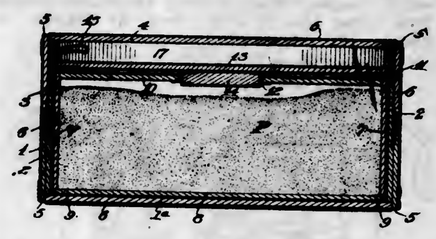
1,388,205. VARIABLE TRACK-HINGE. HENRY J. RUTZ, Lake City, Minn. Filed May 18, 1921. Serial No. 470,732. 3 Claims. (Cl. 104—92.)



1. A track hinge of the class described comprising two sections, one being provided with knuckles and the other having pintles for engagement with said knuckles, said sections being also provided with longitudinal channels adapted to receive portions of the track to which the sections are engaged.

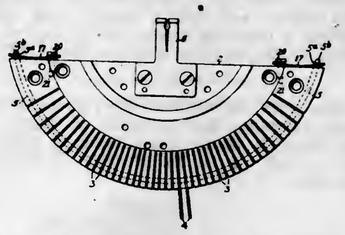
1,388,206. RECEPTACLE OR CONTAINER. FREDERICK SCHANG, New York, N. Y., assignor to The Lorscheider-Schang Co., Inc., Rochester, N. Y., a Corporation of New York. Filed Mar. 4, 1918. Serial No. 220,298. 3 Claims. (Cl. 229—7.)

1. A receptacle comprising outer and inner containers, the inner container including a fixed top having an aperture, a removable outside cover applicable to the outer container walls, a removable lid applicable over the inner container and closely fitting within the outer container side walls, and a stopper fixed to said lid and



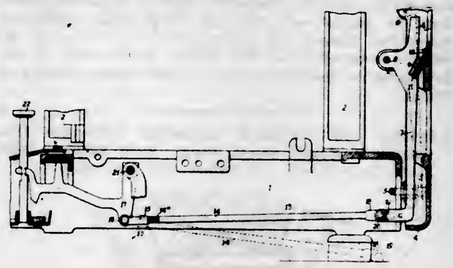
closing the aperture in the top of the inner container when the lid is applied thereover.

1,388,207. TYPEWRITING-MACHINE. WILHELM A. SCHMIDT, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Dec. 4, 1919. Serial No. 342,388. 8 Claims. (Cl. 197—38.)



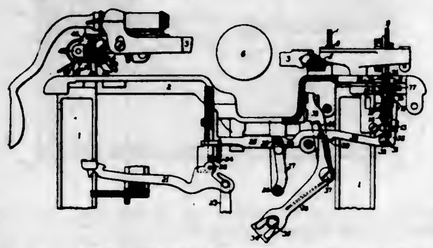
1. In a typewriting machine, the combination of a type bar support, type bars, a pivot wire for said type bars, a lever member of the first order having one arm coöperative with said pivot wire, and means coöperative with the other arm of said lever member to apply pressure from said lever to said pivot wire to fix said pivot wire securely in position.

1,388,208. TYPEWRITING-MACHINE. ARTHUR W. SMITH, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed May 3, 1919. Serial No. 294,559. 7 Claims. (Cl. 197—176.)



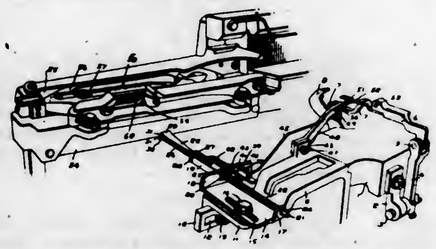
1. In tabulator mechanism for typewriting and like machines, the combination of a tabulator stop actuating member, a key controlled member, and a link connected to and supported at one end by one of said members and having a detachable connection with the other of said members and by which the link is supported at the other end, said detachable connection being formed by an open-ended slot in one part adapted to receive a co-acting portion on another of the two parts to be connected by said detachable connection.

1,388,209. TYPEWRITING-MACHINE. ARTHUR W. SMITH, New York, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed June 25, 1919. Serial No. 306,684. 36 Claims. (Cl. 197—63.)



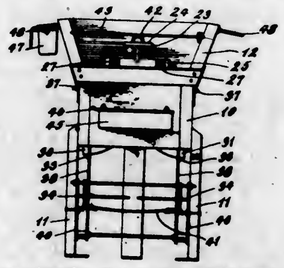
1. In a typewriting machine, the combination of a carriage, escapement mechanism therefor, a locking member coöperative with a part of said escapement mechanism to lock it against operation, means operative to move the locking member into locking position only during the stoppage of the return movement of the carriage, and independent means for moving the locking member to releasing position, said locking member being adapted to be restored to unlocking position during the first printing operation at the beginning of a new line of writing.

1,388,210. FEELER MECHANISM FOR LOOMS. ISAAC SNOW, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Apr. 7, 1920. Serial No. 372,007. 13 Claims. (Cl. 139—85.)



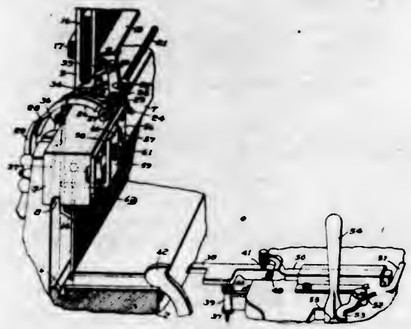
1. In a feeler mechanism for looms, the combination of two feelers mounted for relative separation in a direction transversely of the bobbin by the frontward beat, and which are held from such relative separating movement by engagement with the filling until substantial exhaustion thereof, and means which is actuated by the relative separation of the feelers transversely of the bobbin on a detecting beat to effect replenishment of filling.

1,388,211. PRUNE-TRAY CLEANER AND SACKER. GEORGE F. STARR, Salem, Oreg. Filed Sept. 8, 1920. Serial No. 408,900. 10 Claims. (Cl. 130—32.)



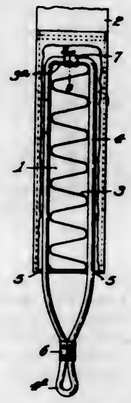
1. An apparatus for the purpose described comprising a tray supporting frame, a drying tray carried by the frame and having a screen portion and relatively elevated supporting bars on the frame for upholding the screen portion of the drying tray.

1,388,212. WARP STOP MECHANISM FOR LOOMS. MELVIN L. STONE, Lawrence, Mass., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Mar. 10, 1921. Serial No. 451,224. 13 Claims. (Cl. 139—92.)



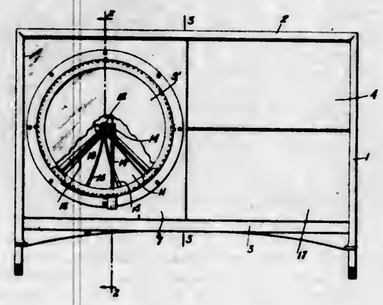
1. In a warp stop mechanism for looms, the combination of the lay, a reed mounted on the lay, a series of drop wires mounted on the lay above the cap of the reed, and each having a downwardly extended portion which projects between adjacent reed dents, a feeler mounted upon the reed cap and having a detecting movement above the reed to engage a drop wire above the reed cap when the drop wire fails to be supported by a warp thread, and means for stopping the loom when the feeler is arrested by a drop wire.

1,388,213. SUSPENDERS. VIRGIL REA STRADER, Philippi, W. Va. Filed Mar. 17, 1921. Serial No. 452,926. 2 Claims. (Cl. 267—74.)



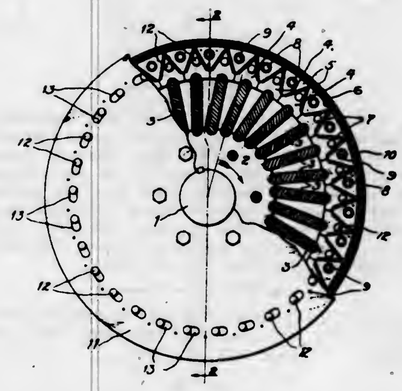
2. A suspender comprising an inelastic webbing doubled upon itself to form a pocket, a zigzag spring disposed within said pocket and having its lower end seated upon the bottom of the latter, the topmost lap of said spring being disposed horizontally, a cord having an intermediate portion thereof seated upon said topmost lap and extending thence downwardly between the sides of said spring and the lateral edge portions of said pocket and protruding through the bottom of the latter, a clamp securing said cord in its said seated position, and means uniting the ends of said cord outside said pocket and forming means for attaching said cord to a garment.

1,388,214. WINDSHIELD FOR VEHICLES. ALFRED O. TATE, New York, N. Y. Filed Mar. 13, 1920. Serial No. 365,482. 3 Claims. (Cl. 296—84.)



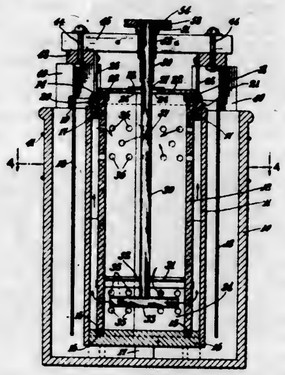
1. The combination with the frame of a windshield of a lookout device mounted in said frame to move transversely of the vehicle from one end of the frame to the other, and a glass pane mounted to move in said frame parallel to the movement of said device and an equal distance, whereby the positions of said pane and device may be interchanged with relation to the driver.

1,388,215. CALENDER-ROLL. ALFRED O. TATE, New York, N. Y. Filed Jan. 29, 1921. Serial No. 440,862. 7 Claims. (Cl. 26—11.)



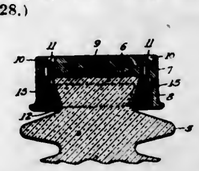
6. A roll of the kind described, comprising a cylinder, segmental longitudinal stiffening members for said cylinder, heating means inclosed within said stiffening members, wedge members so disposed as to hold the stiffening members apart and in contact with the supporting cylinder, means for forcing the wedges against the stiffening members and heat insulating means between said wedges and said stiffening members.

1,388,216. ELECTROLYTIC CELL. CHARLES J. THATCHER, New York, N. Y. Filed Oct. 21, 1919. Serial No. 332,228. 19 Claims. (Cl. 204—5.)



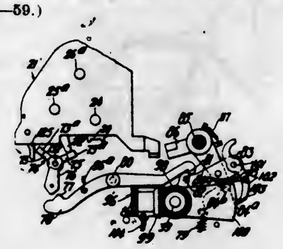
1. An electrolytic cell, comprising: a suitable container; a separator vessel therein; an electrode in the space between said vessel and container; and a hollow electrode within said vessel, said hollow electrode being provided with a false bottom.

1,388,217. INSULATOR. CYRIL H. THOMAS, Chicago, Ill. Filed May 9, 1919. Serial No. 295,849. 1 Claim. (Cl. 173—28.)



An insulator, and hanger therefor, said insulator having an integral annular conoidal projection similar in shape to a truncated cone with its base extending from the body and its apex merging in the body thereof, in combination with a cup-shape hanger having a flat base part overlying the cone base and a skirt extending over the circumferential part of the cone; a split ring, angular in cross-section, for insertion between said skirt and cone, and screws passing through said base into said split ring to wedge the latter between said skirt and cone and to clamp the hanger to the insulator.

1,388,218. COMBINED TYPEWRITING AND COMPUTING MACHINE. EDWARD THOMAS, New York, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Dec. 23, 1918. Serial No. 267,977. 38 Claims. (Cl. 235—59.)



13. In a combined typewriting and computing machine, the combination with a carriage, an algebraic totaliser

and a shutter therefor, of a device connected to be positioned by the shutter, a master wheel, numeral keys for driving the master wheel, driving means for inserting the fugitive unit between the keys and the master wheel, and means normally restraining the driving means but adapted to be caused to release the same by the shutter-connected device, if caused to change its position after the units order of the totalizer has been brought into co-operative relation with the master wheel, or by the same device, if it has been previously caused to change its position, on subsequent movement of the carriage to the position in which such relation of totalizer and master wheel is established.

19. In a computing machine, the combination with a totalizer, of a finger projecting therefrom adapted to occupy two positions, a feeler adapted to be selectively positioned by the finger so that when once shifted by the finger, the finger is ineffective thereon until it is again shifted, and a driving device for the totalizer controlled by said finger.

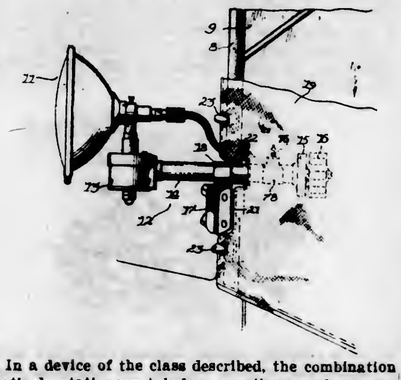
25. In a computing machine, the combination with a totalizer comprising computing wheels, of a master wheel therefor, numeral keys comprising cams for driving said master wheel, and a device interposed between said cams and master wheel for advancing the master wheel independently of the cams, said cams including a cam upon the "0" key.

1,388,219. ADVERTISING DEVICE. Frank Thompson, Camden, N. J., assignor to C. Howard Hunt Pen Company, Camden, N. J., a Corporation of New Jersey. Filed Mar. 21, 1921. Serial No. 453,901. 5 Claims. (Cl. 24—11.)



4. An advertising device comprising a clip consisting of a spring band and a downwardly extending shank, a portion of said band being slit and raised to form a cleat and provided with perforations at points adjacent the ends of, and in line with, said cleat, and a base adapted for the support of advertising matter, said base being slotted for the reception of said cleat and to permit rotation of the base relative thereto, said slot forming ears adapted on the rotation of the base to extend beneath said cleat and afford a connection between said base and clip, there being projections formed on said base adapted on rotation thereof to enter said perforations and tend to maintain the base in fixed position.

1,388,220. SPOT-LAMP FOR AUTOMOBILES AND THE LIKE. Henry P. Thompson, Chicago, Ill. Filed June 2, 1919. Serial No. 301,167. 6 Claims. (Cl. 240—7.)



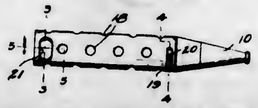
1. In a device of the class described, the combination of a relatively stationary tubular mounting member comprising means for mounting the same on or adjacent the windshield of the automobile, an operating sleeve extending through said mounting member and being rotatable therein, a rotatable hollow head on the forward end of said operating sleeve and adapted for rotation concentrically about the axis of said sleeve, said hollow head comprising a yoke member, and a separate cover member closing said yoke member, a rotatable stem extending through said hollow head and having bearing support in both arms of said yoke member, said stem projecting from said hollow head, a spot lamp supported on the projecting end of said stem with the axis of said spot lamp displaced laterally relative to the axis of said operating sleeve, a first bevel gear on said stem between the arms of said yoke member, an operating shaft extending concentrically through said operating sleeve, bearing surfaces in said operating sleeve adjacent the ends of said shaft for spacing the intermediate portion of said shaft from said operating sleeve, a second bevel gear on said operating shaft meshing with said first bevel gear, a first control knob rigidly mounted on the rear end of said operating sleeve, a second control knob positioned in the rear of said first control knob and rigidly mounted on the rear end of said operating shaft, each of said control knobs being capable of rotation independently of the other or simultaneously therewith for the adjustment of the spot lamp in its different planes, said control knobs adjusting said spot lamp through said operating sleeve and shaft solely by rotational adjusting motion of said knobs.

1,388,221. HEADLIGHT-SHIELD. Charles Toepfer, and Edward J. Toepfer, Milwaukee, Wis. Filed June 15, 1920. Serial No. 389,093. 2 Claims. (Cl. 240—48.4.)



1. A shield for a headlight or the like, comprising a substantially semi-circular opaque plate having a plurality of relatively small elongated light openings therein, formed by punching the material of the plate through from one side, the material struck from the openings forming independent deflector plates extending downwardly and forwardly from the upper sides of the openings, the openings of one row being staggered with respect to the openings of the next adjacent rows.

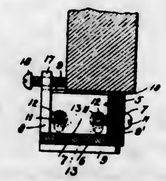
1,388,222. CIGARETTE-HOLDER. Randey Vakilian, Brooklyn, N. Y. Filed Mar. 29, 1920. Serial No. 369,567. 5 Claims. (Cl. 131—22.)



1. A cigarette holder comprising a mouthpiece, an apertured outer tubular casing, said apertured outer tubular casing provided with an abutment shoulder formed on the inner face thereof near one end, the opposite end of said casing being closed, and an inner tubular casing rotatably mounted within said outer tubular casing so as to bear against the abutment shoulder and the opposite end of the outer casing and provided with apertures adapted to register with the apertures formed in the outer casing, and means for limiting the rotary movement of said inner casing within said outer casing.

4. A cigarette holder comprising a mouthpiece, an outer tubular casing provided with an open end adapted to receive said mouthpiece, said outer casing provided with a shoulder portion formed upon the inner face thereof, an inner casing rotatably mounted within said outer casing and having one end thereof abutting said shoulder, said outer casing being closed at its opposite end for producing a bearing for one end of said inner casing, said inner and outer casings provided with apertures adapted to be brought into registration, means for rotating the inner casing within said outer casing, said inner and outer casings provided with registering clean-out openings formed near the outer ends of said casings, and one wall of each clean-out opening being flush with the inner face of the closed end of said inner tubular casing whereby ashes may be conveniently cleaned from said casings.

1,388,223. HINGE MARKER, MEASURER, AND CUTTING DEVICE. Aden Wakefield, Alhambra, Calif. Filed Mar. 2, 1920. Serial No. 362,792. 1 Claim. (Cl. 145—25.)



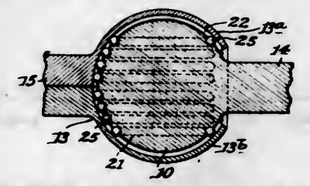
A device of the class described, comprising a rectangular base member having depending flanges formed along the sides thereof, each of three of said flanges having a cutting blade secured thereto, said blades being adjustable in a vertical direction, a pair of gaging screws mounted in the remaining flange of the base member for gaging the width of the cut, and a guard for said cutting blades.

1,388,224. BROOM-CLAMP. Eugene Ward, Brooklyn, N. Y. Filed Sept. 24, 1920. Serial No. 412,462. 2 Claims. (Cl. 15—23.)



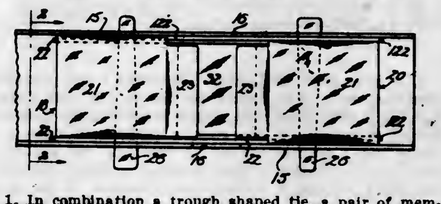
1. The herein described broom clamp comprising a body of sheet metal of uniform width and thickness, the same being bent at its middle portion forming a flexible loop, the metal at the loop being flat in cross section, the side portions of the body beyond the loop being channeled for stiffness, and the end portions of the body remote from the loop being provided with flat lips adapted to engage in flat position directly against each other and one of the lips being slidable along the other due to the flexibility of the loop, and means to secure said lips together for holding the clamp in practice.

1,388,225. UNIVERSAL JOINT. Ernest H. Webb, New Brunswick, N. J. Filed Dec. 6, 1919. Serial No. 343,043. 4 Claims. (Cl. 64—91.)



4. A universal shaft coupling comprising in combination, a driving member and a driven member one of which at least partially surrounds the other, the inner surface of the outer member being provided with a plurality of race-ways and the outer surface of the inner member being provided with a plurality of race-ways which intersect the first mentioned race-ways, and balls at the intersection of at least some of said race-ways, each of said race-ways containing a plurality of such balls.

1,388,226. METAL TIE AND RAIL-FASTENER. William H. H. Welton, Denver, Colo. Filed July 29, 1920. Serial No. 399,940. 6 Claims. (Cl. 238—63.)



1. In combination a trough shaped tie, a pair of members slidable within the tie, said members being of a width equal to the width of the inside of the tie minus the thickness of the material, each member being provided with two parallel sides one end of which is joined by a web and provided with tongues for engagement with the flanges of a railroad rail and means for securing said members to the tie and clamping them against the flange of the rail.

1,388,227. STITCH-DOUBLING DEVICE AND POINTS THEREFOR. Louis N. D. Williams, Ogontz, Pa. Filed Dec. 13, 1919. Serial No. 344,632. 2 Claims. (Cl. 66—32.)

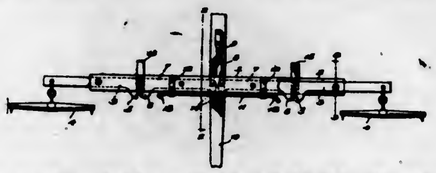


1. A split ring having points for receiving and doubling stitches of knitted web, the points adjacent the divisions of said ring each being provided with a notch adapted to receive and retain against accidental dislodgment the stitch carried by said point.

1,388,228. DOUBLETREE. Martin F. Williams, Brooklyn, N. Y. Filed Aug. 6, 1920. Serial No. 401,611. 3 Claims. (Cl. 278—92.)
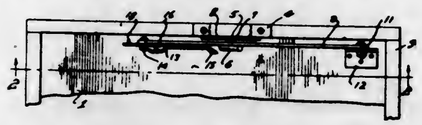
1. A double tree comprising a frame, two swingle tree levers pivotally mounted on said frame and each projecting beyond the adjacent end thereof, the inner end of each lever being provided with a plurality of teeth extending concentric with the lever pivot, a pair of intermediate levers pivotally mounted on the frame and each

having its outer end provided with teeth engaging the teeth on the inner end of the adjacent swingle tree lever, spring means coöperating with the intermediate levers



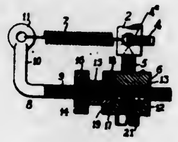
to normally maintain them and the swingle tree levers in alinement, and means connected to the intermediate levers near their inner ends and adapted to be engaged with an abutment on a vehicle tongue.

1,388,229. LATCH MECHANISM FOR GARAGE-DOORS. WESLEY G. WINANS, Detroit, Mich., assignor to Frederick Knowlson, Ann Arbor, Mich. Filed June 4, 1920. Serial No. 386,471. 5 Claims. (Cl. 292—262.)



1. A door latch mechanism comprising a bar pivotally connected to a door, means carried by the door frame forming a slide guide and pivotal mounting for said bar during movement of the door, a latch head upon the frame and a member carried by said bar, adjustable to form in one position a latch member yieldably engaging said latch head in a predetermined position of the door to yieldably maintain said position and forming in another position of adjustment a stop limiting the opening movement of the door.

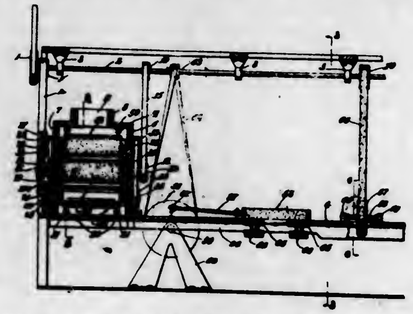
1,388,230. TENSION-REGULATING DEVICE FOR SPRINGS. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed Jan. 9, 1919. Serial No. 270,317. 2 Claims. (Cl. 197—82.)



1. The combination with a part capable of movement and a coiled spring connected thereto, of an adjustable anchorage for said spring comprising a screw to which one end of said spring is connected, a thumb nut mounted on said screw, a detachable stationary part coöperating with said thumb nut to prevent it from moving along said screw, and means for holding said screw against rotary movement while permitting endwise movement thereof.

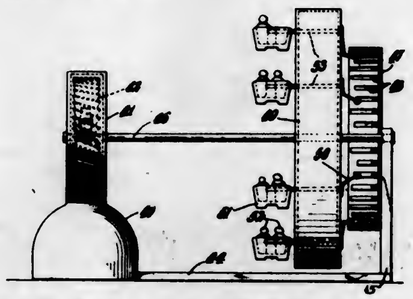
1,388,231. POLISHER AND GRINDER FOR WOOD AND METAL MANUFACTURERS. BÉLA ZSARNAY, Belleville, N. J., assignor of one-half to Abraham Lewis, Newark, N. J. Filed Mar. 26, 1920. Serial No. 368,829. 2 Claims. (Cl. 51—23.)

1. In a polishing machine, a set of revoluble rolls adapted to engage one side of the work, a second set of revoluble rolls spaced from said first set and adapted to engage the opposite side of the work, a movable frame carrying said second set of rolls, rods on which said frame is slidably mounted, springs on said rods for pressing said second set away from said first set of rolls, and



screws for moving said frame toward said first set of rolls.

1,388,232. FIGURE TOY. BÉLA ZSARNAY, Belleville, N. J., assignor of one-half to Abraham Lewis, Newark, N. J. Filed Nov. 26, 1920. Serial No. 426,332. 2 Claims. (Cl. 46—40.)



1. In a toy, an air motor, a shaft rotated thereby, a wheel fixed on said shaft, a series of toy elements carried by one face of the wheel, a stationary drum mounted concentric to said shaft adjacent the opposite face of said wheel, and having the face thereof contiguous to the wheel open and the opposite face closed, note strips fixed in said drum, and strikers carried by said wheel and projecting into said drum to engage the said note strips.

1,388,233. PLOW. FRANCISCO AÑORGA Y LARRALDE, Matanzas, Cuba. Filed Oct. 21, 1919. Serial No. 332,220. 4 Claims. (Cl. 97—1.)

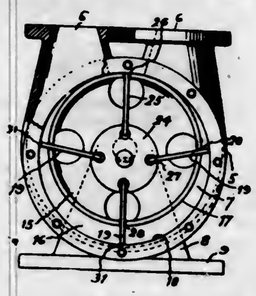


1. In plows, in combination with the beam and share thereof, a frame hanging from the beam, treading wheels carried on this frame, a system of knives arranged in a scissor like manner and mounted above the share, and a driving mechanism between the treading wheels and the knives system.

1,388,234. VALVELESS ROTARY PUMP. THOMAS A. BATEMON, Los Angeles, Calif. Filed July 22, 1920. Serial No. 398,190. 4 Claims. (Cl. 103—44.)

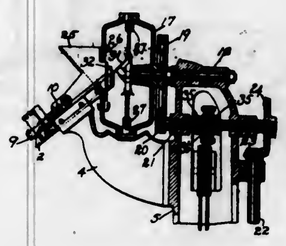
1. A rotary pump comprising a casing inclosing a substantially cylindrical chamber, an actuator revolubly

mounted therein, and having its axis eccentrically disposed relative to the chamber, a peripheral flange on the actuator having a series of transverse slots, and forming with the casing, a segmental working chamber, a shaft journaled in the casing, and projecting within the cylindrical chamber, a piston mounted on said shaft and rotating concentrically within the cylindrical cham-



ber, an impelling blade fixed to the piston and sliding inwardly and outwardly in one of said slots in the actuator, other impelling vanes connected to the piston and sliding in the remaining actuator slots, said actuator contacting with the casing at the uppermost point of the chamber, and induction and eduction ports in the casing, on opposite sides of the contacting point of the casing and actuator.

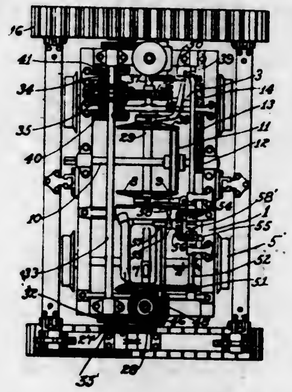
1,388,235. MECHANISM FOR HANDLING ARTICLES. CHARLES C. BLAKE, Brookline, Mass. Original application filed Mar. 27, 1916, Serial No. 86,958. Divided and this application filed Sept. 13, 1917. Serial No. 191,102. 15 Claims. (Cl. 1—6.)



12. A handling mechanism, having, in combination, a raceway, a support therefor, a gate pivoted on the support constructed and arranged to normally prevent the escape of the articles loaded on the raceway, a bridge carried by the raceway, a pair of leaf springs depending from the bridge, and blocks mounted on the lower ends of the springs, respectively, for alining the shanks of the articles adjacent to the gate, substantially as described.

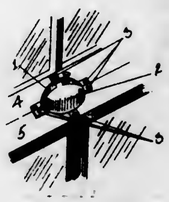
1,388,236. RAILROAD MOTOR-CAR. ROBERT E. BASSLER, Hammond, Ind., assignor to O. F. Jordan Company, East Chicago, Ind., a Corporation of Indiana. Filed July 18, 1919. Serial No. 311,879. 14 Claims. (Cl. 105—62.)

1. A car embodying therein wheels formed for rail travel; an elongated endless traction device transversely mounted on the car and of a length sufficient to span the distance between the rails, and adapted to travel on the ground; and means for moving the elongated



endless traction device downward relative to the wheels of the car and thereby to free the wheels from the rails.

1,388,237. WINDOW-FASTENER. JOHN L. BUSH, Little River, Kans. Filed Jan. 19, 1921. Serial No. 438,283. 2 Claims. (292—135.)

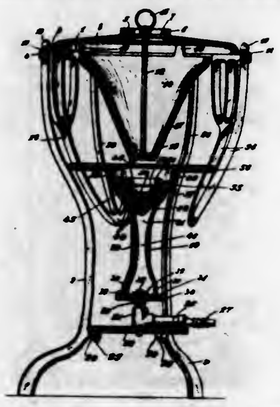


1. A window lock comprising two quarter spherical housings mounted, one upon the lower bar of the upper sash and the other upon the upper bar of the lower sash, and faced together so as to permit the lower sash to be raised past the upper sash; a bolt extended medially from the face of the housing mounted upon the upper bar of the lower sash, and a lip extended from the upper side of the housing out over the bolt and spaced from the bolt; a mortise chambered out of the upper frontal part of the housing mounted on the lower bar of the upper sash, to receive the bolt and lip of the other housing as the window is closed; a gravity latch pivotally mounted within said mortise and adapted automatically to lock over the bolt aforesaid as the two housings meet; and a release pin pivoted from said gravity latch, extended through the housing, and adapted to release the latch from the bolt by depressing the pin.

1,388,238. GAS-HEATER. CHARLES C. CHAPPELLE, New York, N. Y. Filed Oct. 21, 1918. Serial No. 259,154. 9 Claims. (Cl. 126—87.)

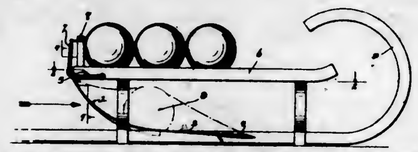
4. A heater comprising in combination a burner having circumferentially arranged jet apertures and adapted for the forcible discharge of fuel therefrom, a radiating member disposed above the burner and having a peripheral radiating wall arranged for the reception of flames from the burner, a horizontally extending baffle arranged above

the level of the burner and below the level of the radiating member, said baffle being apertured to permit



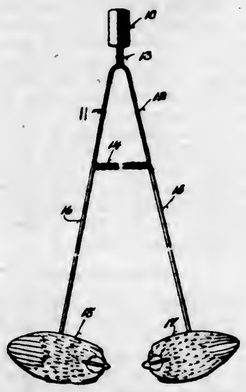
the passage of flame from the burner to the radiating member.

1,388,239. ATTACHMENT FOR BOWLING-ALLEY RETURN-TROUGHS. WALTER CHOINSKI, Milwaukee, Wis. Filed Oct. 28, 1920. Serial No. 420,136. 5 Claims. (Cl. 46—66.)



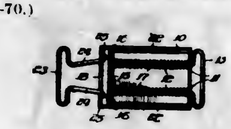
1. In combination with a bowling alley return trough, means adapted to form a trap for the balls traveling in one direction and to permit their passage in the opposite direction, said means comprising an apron having one end secured above the trough and the opposite end secured to the trough.

1,388,240. TOY. WALTER CHOINSKI, Milwaukee, Wis. Filed Dec. 21, 1920. Serial No. 432,246. 2 Claims. (Cl. 46—40.)



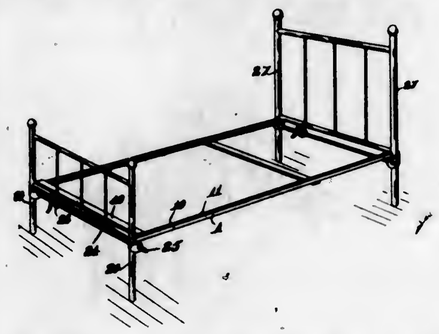
1. A device of the character described, comprising a block, two resilient members extending from one end of the block in divergent relation, the intermediate portions of said members crossing and each extending outwardly from the point of crossing substantially in alinement with the inner portion of the other member, said members being twisted together at the point of crossing, and fighting images attached to the outer ends of said members.

1,388,241. CLASP. LESLIE H. DIERKING, Elgin, Ill. Filed Sept. 20, 1919. Serial No. 325,068. 6 Claims. (Cl. 267—70.)



2. A clasp of the class described, comprising an elongated housing having one of its sides open, one end of said housing being perforated, and the other end being provided with a slot, a U-shaped attaching member slidably mounted in the perforated end of said housing, the arms of said attaching member being mounted in the perforations of the housing, springs arranged on the arms of said attaching member and abutting against one end of said housing, a tie-bar spanning the ends of the arms and serving to retain the springs thereon, said springs affording a yielding mounting for the attaching member with respect to said housing, a closure plate fitted within the open side of the housing and provided with engaging flanges, said flanges frictionally engaging the contiguous sides of the housing to retain the closure plate therein, and a hook member releasably engaged with the slotted end of said housing.

1,388,242. INVALID-BED. THOMAS DODDS, Thessalon, Ontario, Canada. Filed Dec. 23, 1919. Serial No. 346,863. 1 Claim. (Cl. 5—45.)

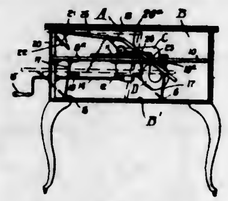


An invalid bed having tubular head and foot posts, racks slidably mounted in the said posts, U-shaped members carried by the tubular posts, a cross bar, a transversely extending rotatable rod journaled in the U-shaped members, gears on the ends of the rod meshing with the racks, and located between the two arms of the U-shaped members, a gear intermediate of the length of the rod, a spring dog on the cross bar, adapted to engage the last said gear, the said dog having a projecting handle formed integral therewith.

1,388,243. PHONOGRAPH-TABLE. HENRY DRAGNER and LOUIS J. HARRIS, New York, N. Y. Filed Oct. 22, 1919. Serial No. 332,544. 4 Claims. (Cl. 45—52.)

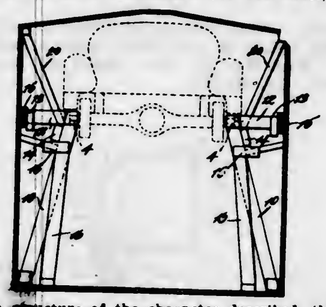
1. A phonograph table having a partially open compartment therein, a motor board movably supported in said compartment, pivotally mounted supports for said motor board and adapted to sustain the latter in a level

plane, an upper cover board, and means connecting the cover board and motor board whereby forward and rear-



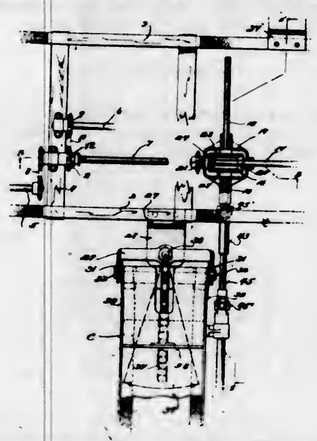
ward movement of the latter will control the arcuate and lateral movement of the former.

1,388,244. SHIPPING-SUPPORT FOR AUTOMOBILES. JAMES N. DUNCAN, Detroit, Mich. Filed May 2, 1919. Serial No. 294,140. 8 Claims. (Cl. 105—368.)



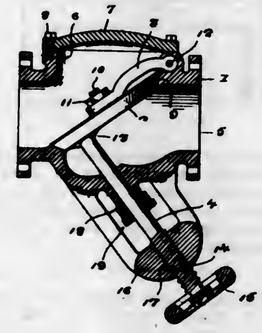
2. In a structure of the character described, the combination with the walls of a retaining inclosure, of supporting means for a vehicle, said supporting means forming trusses with the side walls of the inclosure, the members of the trusses forming two groups situated in planes at right angles to each other.

1,388,245. TRUCK CONVEYER AND UNLOADER. JAMES A. EATON, Milwaukee, Wis. Filed Dec. 8, 1919. Serial No. 343,246. 4 Claims. (Cl. 214—83.)



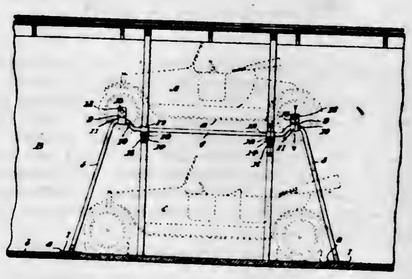
1. The combination with a portable receptacle, of a two-part drive shaft disposed transversely of the direction of normal movement of the receptacle, means for revolving the parts of the shaft in opposite directions, a supporting bracket carried by the receptacle forwardly of one part of the drive shaft, a second supporting bracket carried by the receptacle rearwardly of the other part of the drive shaft, a mechanical conveyer adapted to be selectively connected to either of said brackets, and means for coupling the operating means of the conveyer with either part of said shaft.

1,388,246. CHECK-VALVE. WILLIAM H. ELLIOTT, Washington, D. C., assignor of one-fourth to William F. Walter, Washington, D. C. Filed Aug. 30, 1920. Serial No. 406,840. 1 Claim. (Cl. 251—125.)



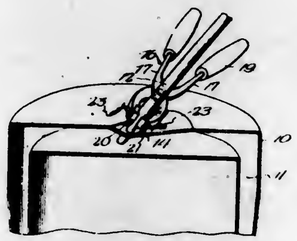
A check valve comprising a casing having alined orifices and also having an opening in its top and an open work extension pendent from its bottom and provided with a threaded bore, a plate to close the top opening of the casing and detachably connected to the casing, a diagonally-arranged valve body in the casing and opposed to a valve seat therein, said valve body having a stem, an arm arranged at the pressure side of the valve body and hingedly connected to the casing and receiving the said stem, a nut mounted on the stem above the arm, a stuffing box carried by the casing and disposed within the extension thereof, and a threaded stem bearing in the threaded bore of the casing extension and extending through the stuffing box and into the casing and having its inner end disposed in a depression of the valve body.

1,388,247. DOUBLE-DECKING BUCK. EDWARD S. EVANS, Detroit, Mich. Filed Mar. 24, 1920. Serial No. 368,367. 9 Claims. (Cl. 105—368.)



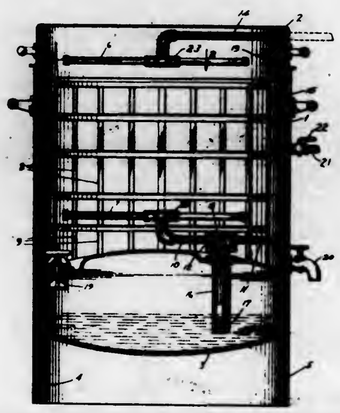
3. A double decking buck for automobiles comprising a pair of legs, a substantially horizontal member rigidly connected between the said legs, and a brace receiving socket carried thereby.

1,388,248. METHOD OF SEALING VACUUM-JACKETS. JOHN L. FATE, Chicago, Ill.; Daisy L. Fate, executrix of said John L. Fate, deceased, assignor, by mesne assignments, to C. Roy Gleason, Chicago, Ill. Filed Sept. 18, 1918. Serial No. 254,548. 5 Claims. (Cl. 113—82.)



1. The method of exhausting and sealing vacuum jackets which consists in exhausting air from the jacket through a conduit, pressing the walls of the conduit together exterior to the jacket, and substantially simultaneously fusing the flattened walls of the conduit to weld them together.

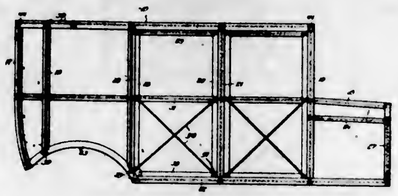
1,388,249. WASHING AND STERILIZING APPARATUS. THEODORE H. FRETER, Chicago, Ill. Filed Oct. 4, 1920. Serial No. 414,633. 3 Claims. (Cl. 141—9.)



1. A washing apparatus comprising a receptacle having an upper cleaning compartment containing a nozzle, a boiler located in the lower part of said receptacle and having an outlet communicating with said nozzle, said boiler being adapted to contain fluid under pressure for discharge through said outlet and nozzle into said compartment, a valve controlling said outlet, and means for normally holding said valve in its closed position until the pressure of the water in said boiler reaches a predetermined amount.

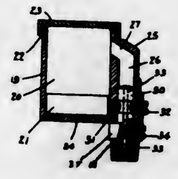
1,388,250. METHOD OF REINFORCING AUTOMOBILE-BODIES. JOHN F. GODFREY, Elkhart, Ind. Filed Dec. 20, 1920. Serial No. 431,820. 3 Claims. (Cl. 296—28.)

1. In a vehicle body construction, interrelated frame members, and tie members extending between joints of said frame members, three tie members meeting at corners of said vehicle body, and an anchor member located at



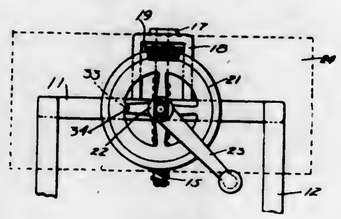
the point of meeting and adapted to be engaged by said members.

1,388,251. CENTRIFUGAL LUBRICATING-CUP FOR LOOSE PULLEYS. LYCURGUS P. GORTON, Indianapolis, Ind. Filed May 13, 1920. Serial No. 381,082. 7 Claims. (Cl. 64—26.)



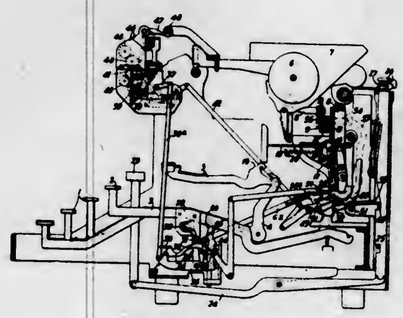
1. A centrifugal lubricating cup comprising a cup body, discharge means having a channel communicating with said body, a piston in said body for forcing the lubricant into said channel, a nipple for supporting the cup and adapted to be secured to a pulley independently of said cup and provided with a channel therein, and means separable from the cup and nipple detachably securing said cup to said nipple, whereby the discharge channel and the nipple channel are in registration with each other and secure said cup to said pulley.

1,388,252. WINDOW-SASH REGULATOR AND OPERATOR. LOUIS J. GOUIN, Freeport, Ill. Filed Sept. 22, 1919. Serial No. 325,394. 3 Claims. (Cl. 268—4.)



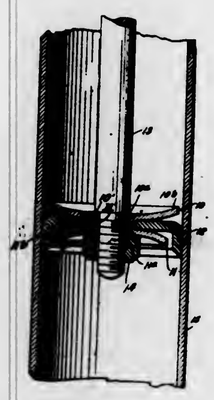
1. A sash operating mechanism having a feed screw arranged substantially parallel with the path of the sash, a bendable traveler connected with the sash, and engaged with said feed screw, and means for imparting rotary movement to the screw, the traveler being disengageable from the screw by lateral movement.

1,388,253. TYPEWRITING-MACHINE. WILLIAM L. GUMPRECHT, Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Mar. 22, 1917. Serial No. 156,595. 11 Claims. (Cl. 197—82.)



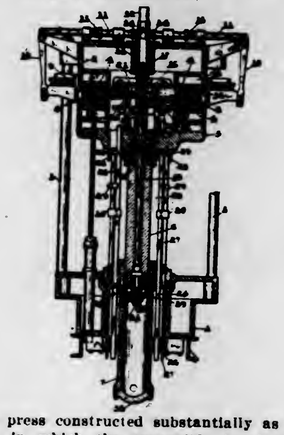
1. In a machine of the character described a key controlled step-by-step escapement mechanism tabulating mechanism and an interlocking element for preventing the operation of the tabulating mechanism after a key has released the escapement and until said key has practically finished its return movement, said interlocking element being so connected to the key as to remain stationary during part of the return movement of the key.

1,388,254. PUMP-PISTON. HANS L. C. HANSEN, Chicago, Ill. Filed Dec. 7, 1920. Serial No. 428,915. 4 Claims. (Cl. 103—63.)



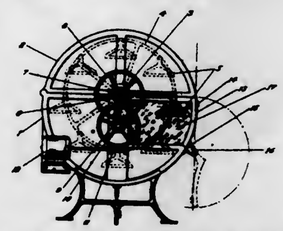
4. A pump piston comprising a piston rod, a cup leather mounted on said rod, and a backing washer mounted on said rod on each side of said cup leather and having convex faces opposing the same, said washers having ribs engaging said cup leather and clenching it upon said rod to provide a liquid tight connection between said cup leather and said piston rod.

1,388,255. TIRE-PRESS. WILLIAM EDWARD HARDEMAN, Birmingham, England, assignor to Dunlop Tire & Rubber Corporation of America, Buffalo, N. Y., a Corporation of New York. Filed Nov. 29, 1920. Serial No. 427,080. 7 Claims. (Cl. 18—17.)



4. A tire press constructed substantially as set forth in claim 3 in which the expansible tread member is formed of sections adapted to interlock with the side wall members; and a vertically movable ring is provided on which said sections are radially movable.

1,388,256. ROTARY BAKING-OVEN. GEORGE H. HARKRADER, Columbus, Ohio, assignor to The New System Manufacturing Company, Columbus, Ohio, a Corporation of Ohio. Filed Oct. 24, 1919. Serial No. 332,981. 3 Claims. (Cl. 107—59.)

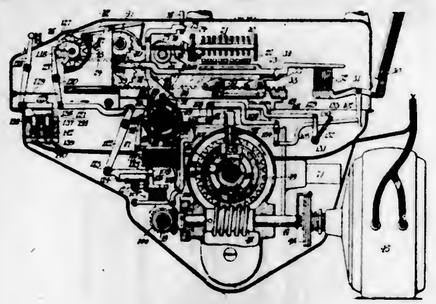


3. A rotary baking oven comprising a cylindrical casing, a reel operating in said casing, a door in the undercut part of the cylindrical casing and mainly below the horizontal center thereof, so that when the door is opened only a small amount of heat will escape through the door opening, hinges at the lower end of said door and on the casing projecting outwardly from the casing to such extent that when the door is closed it will lie of its own accord at one side of a vertical plane passing through the centers of the pivots of the hinges and when the door is open it will lie of its own accord at the other side of said plane.

1,388,257. COMBINED TYPEWRITING AND COMPUTING MACHINE. FREDERICK A. HART, Jersey City, N. J., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Dec. 12, 1911. Serial No. 665,315. 118 Claims. (Cl. 235—60.)

3. The combination of a set of numeral types, a carriage, a set of computation wheels, a set of type operators, and mechanism for causing the operation of said type-operators one at a time to print the number which is set up on the computation wheels; said mechanism including means for enabling each dial wheel to select the

type which is to be printed, and also including means to enable the carriage to determine the order or time of operation of the type-selecting devices.

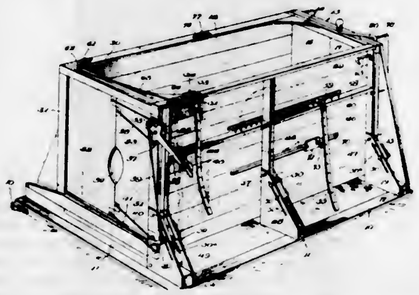


89. The combination, with a typewriting machine, of a computing device including a series of cams, a series of bars positioned by said cams, and means for actuating said bars to operate the numeral key bars of the type writer.

92. In a calculating machine, the combination of, a set of numeral printing bars, a set of displaceable elements, and automatic mechanism for operating said bars successively in a sequence determined by the position of said displaceable elements.

115. The combination with keys, of actuating mechanism for said keys, a carriage, carriage-controlled means for governing the action of said actuating mechanism, and selecting means operative to determine the particular actuation of said keys by said actuating mechanism.

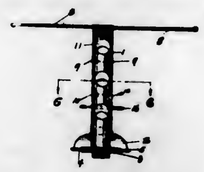
1,388,258. HOG-HOLDER. CECIL K. HASTY, What Cheer, Iowa. Filed Jan. 12, 1920. Serial No. 350,840. 6 Claims. (Cl. 119—99.)



1. A restraining device for animals including a support, a table horizontally pivoted to said support and provided with a longitudinally extending opening, a fastening element adapted to be passed about the body of a hog, a head at the lower end of said fastening member slidably mounted in said opening and comprising spaced plates engaging opposite sides of the table at said opening, and means for maintaining the plates in fixed spaced relation, and a plurality of spaced fastening members carried by said table and adapted to be selectively engaged by the free end portion of said fastening element.

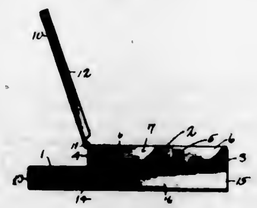
1,388,259. TIE-FASTENER. MICHAEL HENRY, Chicago, Ill. Filed Aug. 2, 1920. Serial No. 400,579. 7 Claims. (Cl. 2—84.)

1. An article of the class described comprising a tubular casing having laterally extending tie-engaging arms: openings in said casing; means mounted within said casing adapted to engage a collar button head whereby said



head may be locked in said openings, substantially as described.

1,388,260. COMBINATION WEIGHT AND SPATULA HOLDER. WILLIS F. HOOD, Highland Park, Mich. Filed May 20, 1919. Serial No. 298,508. 3 Claims. (Cl. 220—20.)



3. A tray for apothecaries' weights and the like and heel therefor, comprising a chamber open at the front and provided with standards upstanding from its top for supporting a tray.

1,388,261. BED-SPRING. JOEL L. ISAACS, Milwaukee, Wis. Filed July 23, 1920. Serial No. 398,519. 1 Claim. (Cl. 5—39.)

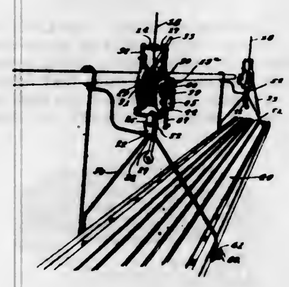


In a cushion structure of the character described, the combination of a frame, and a metallic fabric thereon comprising in combination a plurality of lengthwise-disposed, transversely upwardly arched spaced, parallel, sheet-metal bands, springs connecting said bands at their ends to said frame, means connecting said bands together transversely between their ends, the top faces of said bands and the tops of said intermediate connecting means being in substantially the same horizontal plane, the curved shape and the location of the top surfaces of said bands facilitating the transverse sliding of the superposed mattress thereon, substantially as described.

1,388,262. HOISTING ATTACHMENT FOR SCAFFOLDS. FRANK B. JOHNSTON, Roselle Park, N. J., assignor to American Safety Device Co., New York, N. Y. Filed Dec. 3, 1919. Serial No. 342,229. 11 Claims. (Cl. 254—167.)

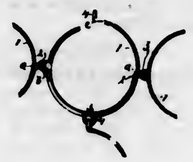
1. In a hoisting and lowering means for scaffolds, a frame, a drum in the frame adapted to receive a cable thereon, operating means for turning the drum whereby to hoist the frame on the cable, and a holding pawl adapted to maintain the drum from turning in a reverse direction, in combination with a yieldable normally inactive

reverse preventing means for the drum adapted to normally permit free operation of the latter and adapted to



hold the drum from reverse movement and absorb shock imposed on the drum when said pawl fails to operate.

1,388,263. BED-SPRING. FRANCIS KARR, Holland, Mich. Filed Aug. 5, 1918. Serial No. 248,459. Renewed Feb. 4, 1921. Serial No. 442,596. 4 Claims. (Cl. 5—29.)



2. In spring bed bottom and cushion construction, surface coils having eyes or rings horizontally disposed on two sides and vertically disposed on two sides of each surface coil all so arranged that the horizontal rings on one surface coil may be interlinked with the vertical rings on adjacent surface coils throughout the surface construction of the springs.

1,388,264. ANTISKID DEVICE. JOHN C. KEAVEY, Cleveland, Ohio. Filed June 12, 1919. Serial No. 303,670. 1 Claim. (Cl. 152—16.)



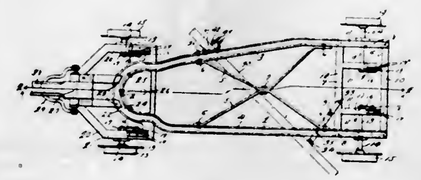
A device of the kind described comprising the semicircular side rings hinged together and terminating in eyes at the free ends, arched transverse bands connected to said eyes, a fabric connected to the transverse bands and to the side rings, and hooks passing through the eyes at the ends of the side rings, each hook having an eye to receive the extreme end of the hook as set forth.

1,388,265. GAME APPARATUS. GEORGE KEHL, Chicago, Ill. Filed June 24, 1920. Serial No. 391,410. 1 Claim. (Cl. 46—41.)



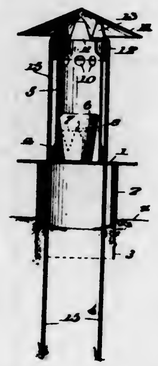
A device of the class described comprising a box like casing, having a flat bottom displaying an image arranged therein, a transparent covering in said casing, the bottom of said casing having a plurality of different sized and shaped depressions arranged therein in different relative positions, a plurality of rolling and tumbling members in said casing, said members being formed of different sizes and shape each adapted to fit in one of the aforesaid depressions to complete the character displayed in the casing.

1,388,266. WHEELED DITCHING-MACHINE. GEORGE KETTENTON, Scotts Bluff, Nebr. Filed Dec. 24, 1919. Serial No. 347,082. 1 Claim. (Cl. 37—7.)



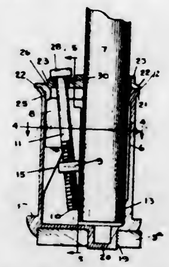
The combination with a vehicle frame formed from channel iron having its flanges extending upwardly, the forward end of the frame being semicircular, of a fifth wheel construction for the forward end of said frame, said fifth wheel comprising upper and lower members, the upper member being formed by removing the forward flange of the semi-circular portion of the frame, upwardly and rearwardly extending lugs carried by the lower member and overlying the horizontal portion of the semi-circular forward end of the frame and located on each side of the longitudinal center line of the frame, a flanged plate disposed within the semicircular forward end of the frame and having its flange secured to the rear flange of said semi-circular forward end of the plate and its body portion disposed on the lower member, and a king pin extending through the flanged plate and the lower member and concentrically disposed in relation to the upwardly and rearwardly extending lugs and in relation to the forward edge of the semicircular forward end of the vehicle frame.

1,388,267. LANTERN. ELIZABETH C. KNEIP, Maspeth, N. Y. Filed Jan. 25, 1921. Serial No. 439,761. 2 Claims. (Cl. 240—13.)



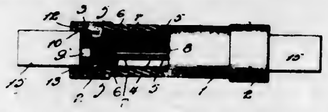
1. A lantern comprising a flat base plate having a pair of openings, a member protruding downwardly therefrom and adapted to be thrust into the ground, a source of light and a chimney supported by said base plate, and a pair of anchor rods, disposed one on each side of said chimney, passing through the openings in the base plate.

1,388,268. COUPLING. ALFRED W. KNUTSON, Galesburg, Ill., assignor to Rowe Manufacturing Co., a Corporation of Illinois. Filed Aug. 25, 1919. Serial No. 319,819. 7 Claims. (Cl. 287—23.)



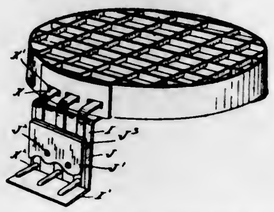
3. A device of the type set forth comprising a socket adapted to receive a post, a part of one wall of the socket and a part of the surface of the post converging toward each other, a bolt having a head adapted to engage an outer part of the socket and a nut on the bolt adapted to engage and slide between said wall and said surface as the bolt is rotated therein, whereby the nut may be forced into wedging engagement with the post.

1,388,269. INCLOSED OR CARTRIDGE FUSE. WILLIAM JOE KRAMER, St. Louis, Mo. Filed June 16, 1919. Serial No. 304,481. 10 Claims. (Cl. 200—132.)



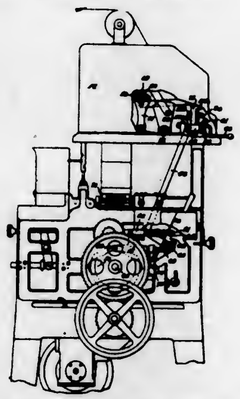
5. A renewable fuse comprising a shell and tubular ferrules fixed on the ends of the shell, in combination with a fuse-strip holder having current-conducting terminals fitting removably longitudinally within the shell, conducting retaining-members for the holder also fitting removably within the shell and engaging loosely with the ferrules and detachably with the holder, and closure-means for the ends of the shell having detachable engagement with the ferrules.

1,388,270. ELECTRIC HEATER. FRANK KUHN and JAY A. HAND, Detroit, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a Corporation of Michigan. Original application filed Feb. 21, 1918, Serial No. 218,402. Divided and this application filed May 31, 1918. Serial No. 237,423. 2 Claims. (Cl. 219—19.)



1. In an electric heater, the combination with a frame, of a heating unit detachably engageable with said frame, terminals for said unit projecting therefrom, a housing for said terminals secured to said frame, a marking plate for said unit secured to the terminal portion thereof, and a window in said housing through which the markings on said plate are displayed when said heating unit is in engagement with said frame.

1,388,271. DESIGNATION-PRINTING MEANS. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 18, 1916. Serial No. 79,013. 43 Claims. (Cl. 235—58.)



1. In a machine of the character described, the combination of means for setting up and printing items; means for accumulating said items; means for printing the total accumulated by the accumulating means; and settable means for automatically rendering the accumulating means inoperative from the time that a single item is accumulated after the setting of the settable means until the next total is printed.

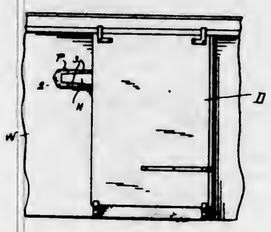
6. In an accounting machine having a plurality of groups of printers, each group of printers having means for defining the position of said printers for printing individual items, actuating means for actuating said printers into printing position, accumulators to be engaged by said printers to accumulate on said accumulators, means for resetting said accumulators so that said accumulators may define the position of said printers for taking totals, and means for anchoring said accumulators out of accumulating position during one or more normal accumulating periods.

11. In an accounting machine having a plurality of groups of printers, each group of printers having means for defining the position of said printers for printing individual items, actuating means for actuating said printers into printing position, accumulators to be engaged by said printers to accumulate on said accumulators, means for resetting said accumulators so that said accumulators may define the position of said printers for taking totals, progressively actuated anchoring means for anchoring said accumulators out of accumulating position on the second actuation of said anchoring means, the initial actuation of said actuating means not affecting the accumulators whereby the first card of a series may be accumulated but accumulation of all the remaining cards be prevented, and means restoring said accumulators.

23. In an accounting machine having a group of printers, accumulators for coöperating with said printers, a shifting link operatively connected to said accumulators for bringing said accumulators into or out of engagement with said printers, rocking means having an upper and a lower active end, the upper active end being operative to connect said shifting link for shifting the same to bring said accumulators into engagement with said printers for accumulation, the lower active end being operative to connect said shifting link for shifting the same to bring accumulators into engagement with said printers for taking a total, actuating means for actuating said rocking means, and means for anchoring said rocking means out of engagement with said shifting link.

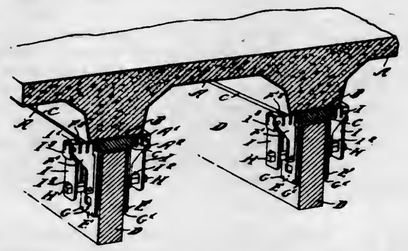
36. In a machine of the character described, the combination of a printing mechanism on which items may be set up; an accumulator adapted to effect the accumulation of a set-up item and to automatically become inoperative during the subsequent setting up of items; and an initiating means for causing the total-taking of said set-up item after said subsequent setting up.

1,388,272. DOOR-HOLDER. WILLIAM H. LAWRENCE, Akron, Ohio. Filed Dec. 24, 1920. Serial No. 433,039. 2 Claims. (Cl. 292—219.)



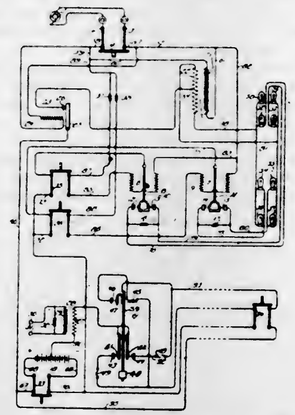
1. In combination with a wall provided with an opening and with a pocket adjacent said opening and a sliding door coacting with the opening, a plate substantially defining the side walls and inner end wall of the pocket and provided with flanges extending within the pocket, a plate fitting between the portions of the first named plate defining the side walls of the pocket, the side margins and the forward end margin of said second named plate being defined by inwardly directed flanges, a pintle supported by the flanges of the first named plate and with which the side flanges of the second named plate are pivotally engaged, and means for constantly urging an end portion of the second named plate outwardly of the pocket and in the path of travel of the door, the pivoted end portion of the second named plate being provided with a tail underlying the portion of the first named plate at the inner end of the pocket.

1,388,273. SUPPORT FOR CONCRETE-FORMS. RALPH R. LEFFLER, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed Nov. 21, 1919. Serial No. 339,715. 5 Claims. (Cl. 25—131.5.)



1. The combination with a form, of means for supporting said form including a stirrup, a supporting arm adjustable upon said stirrup to either an operative or an inoperative position, together with means for locking said arm in its operative position.

1,388,274. CONVERTER. OSCAR M. LEICH, Genoa, Ill., assignor to Leich Electric Company, Genoa, Ill. Filed Aug. 4, 1919. Serial No. 315,146. 2 Claims. (Cl. 172—281.)

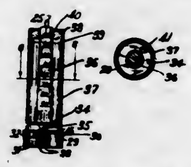


1. Apparatus of the character described comprising a source of alternating current, two or more vibratory rectifiers, means associated with each rectifier for limiting the current flow therethrough to protect the contacts thereof against overload, said rectifiers being adapted to convert said alternating current into uni-directional current, a translating device receiving said uni-directional current, means for connecting said rectifiers to supply said uni-directional current in parallel relationship to said translating device, an equalizer battery associated with said translating device and rectifiers to equalize the current supply to said translating device, a switch for controlling the association of said uni-directional current with said translating device and said battery, a second switch for controlling the association of said uni-directional current with said translating device, and a transformer having a primary and secondary winding, the primary winding being connected to said translating device and an intermediate point of said battery.

2. Apparatus of the character described comprising a source of alternating current, two or more vibratory rectifiers, means connected with each rectifier for lim-

iting the current flow therethrough to protect the contacts thereof against overload, said rectifiers being adapted to convert said alternating current into uni-directional current, a vibratory converter receiving said uni-directional current, means for connecting said rectifiers to supply said uni-directional current in parallel relationship to said vibratory converter, an equalizer battery associated with said vibratory converter and rectifiers to equalize the current supply to said vibratory converter, a switch for controlling the association of said uni-directional current with said vibratory converter, a second switch for controlling the association of said uni-directional current with said vibratory converter, and a transformer having a primary and secondary winding, the primary winding being connected to said translating device and an intermediate point of said battery.

1,388,275. TIRE-GAGE. ARTHUR B. LOW, Denver, Colo. Filed Apr. 12, 1918. Serial No. 228,251. 20 Claims. (Cl. 73—111.)

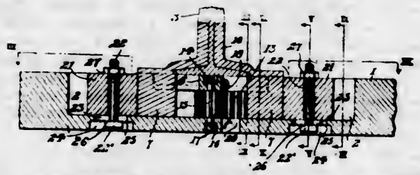


1. A tire gage, comprising a tubular member open at one end to receive fluid under pressure and having a cavity therein, a plunger movable in said cavity and in frictional engagement with the member, the two parts being constructed and arranged to gradually increase the friction as the plunger moves from the open end in predetermined degree having definite and predetermined relation to the extent of movement, and a gage bar on which said plunger is mounted, there being a passage connecting the portions of said cavity on opposite sides of the plunger, whereby the effective pressure area is equal only to that of a cross section of the gage bar.

1,388,276. EXTRACTION OF POTASSIUM FROM THE NATURAL SUBSTANCES IN WHICH IT OCCURS. SAMUEL MCKIRAHAN, Golden, Colo., assignor, by direct and mesne assignments, of two-thirds to F. A. Fuller, Denver, Colo. Filed Feb. 14, 1918. Serial No. 217,280. 3 Claims. (Cl. 23—22.)

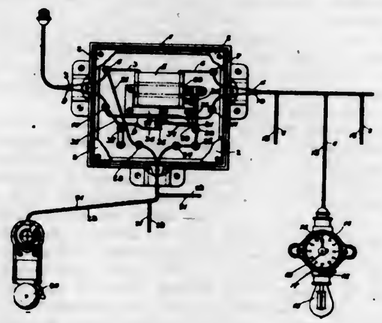
1. The process of extracting potassium from natural substances in which it occurs, consisting in mixing with non-calcic silicate rock carrying potassium compounds, a quantity of finely-divided fluorspar (CaF_2) exclusive of any other agent or agents, heating the mixture to volatilize the potassium as potassium fluorid (KF), and recovering the potassium salts from the volatile product.

1,388,277. RAILROAD TIE AND FASTENER. STIVE MALICZISKI, Jersey City, N. J. Filed May 23, 1921. Serial No. 471,723. 8 Claims. (Cl. 238—331.)



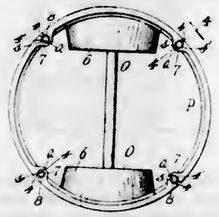
1. A rail tie and fastener of the type described comprising a tie having a recess formed therein and a rail supported on the tie above said recess, rail engaging clamps slidably and interlockingly mounted in said recess, rack bar extensions carried by said rail engaging clamps lying in spaced overlapped relations adjacent the opposite walls of the recess, a pinion journaled in said tie in engagement with said rack bars for shifting the rack bars and the rail engaging clamps carried thereby for engagement with the rail.

1,388,278. SIGNAL MECHANISM. LEWIS A. MAPEL, St. Louis, Mo., assignor to Automatic Appliance Company, St. Louis, Mo., a Corporation of Missouri. Filed July 13, 1918. Serial No. 244,753. 7 Claims. (Cl. 161—1.)



1. Signal mechanism comprising an electric circuit, a switch for opening and closing said circuit, a normally de-energized electro-magnet in said circuit, and a timing device settable to close said switch after any varying selected interval of time, in combination with an electrically operable signal, a circuit wire from said signal in connection with one of the wires of said circuit between said magnet and the source of the electrical energy, another circuit wire from said signal, and a device operated by said magnet when said magnet is energized for placing said other circuit wire from the signal in circuit with the other wire of the first-named circuit between said switch and the source of electrical energy.

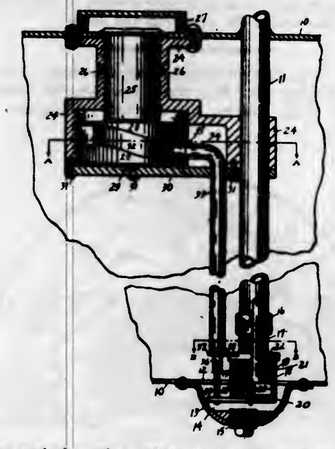
1,388,279. PISTON FOR ENGINE-CYLINDERS. CHARLES A. MARIEN, St. Louis, Mo., assignor to H. & H. Machine Company, St. Louis, Mo., a Corporation of Missouri. Filed Oct. 29, 1920. Serial No. 420,360. 7 Claims. (Cl. 74—108.)



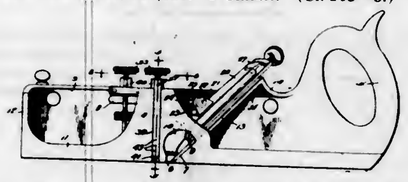
1. A piston for engine cylinders provided with a skirt slit or divided longitudinally, and longitudinally slit filler tubes in the slits of the skirt.

1,388,280. AUTOMOBILE GASOLENE-LOCK. HAL M. MASON, Independence, Kans. Filed June 17, 1920. Serial No. 389,682. 3 Claims. (Cl. 251—7.)

1. In combination, a gasolene tank, a pipe leading therefrom, a flanged extension upon the base of said pipe within the tank, a cap sleeved upon said flanged extension, a collar around said extension engaging said cap, a spring bearing between said collar and flange; openings in the sides of said cap adapted under certain conditions to admit gasolene for transmittal through said pipe, said spring normally tending to raise said cap to seat against the extension and close the orifices leading to said pipe against such gasolene transmittal.

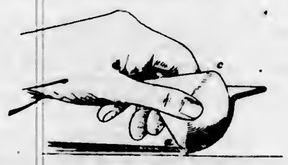


1,388,281. CARPENTER'S ADJUSTABLE FILLISTER OR RABBET PLANE. JAMES E. MEED, Palestine, W. Va. Continuation of application Serial No. 225,151, filed Mar. 28, 1918. This application filed June 21, 1920. Serial No. 390,425. 5 Claims. (Cl. 145—5.)



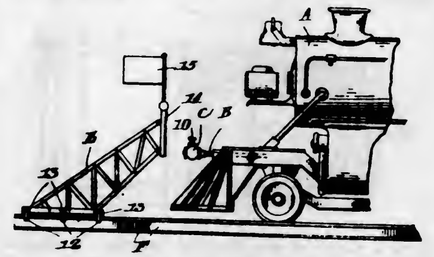
4. A fillister or rabbet plane comprising a stock having a base plate, a side plate, a bit seat, a web connecting said bit seat with the side plate and formed with an opening therein, a bit resting against the bit seat and provided with gear teeth exposed through an opening in said bit seat, a shaft arranged in rear of the bit seat and carrying a gear projecting through said opening and meshing with said gear teeth, said shaft being rotatably and tiltably mounted at its lower end and projecting at its opposite end through the opening in the web, and a latch device upon the web for holding the shaft in position for rotation with the gear engaging the gear teeth.

1,388,282. ECONOMIC COOKING-VESSEL WIPE. WILLIAM MEREDITH, Indianapolis, Ind. Filed Mar. 23, 1921. Serial No. 454,807. 2 Claims. (Cl. 65—12.)



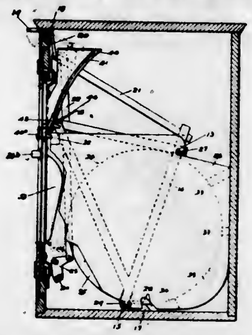
1. As a new article of manufacture, a substantially triangular vessel wipe of flexible material having two straight edges uniting in an acute angle and having a third curved edge, the body of said article increasing in thickness from all three of its edges to its middle in base to base pyramids.

1,388,283. TRAIN-STOP. GEORGE HUMISTEN METZLER, Halifax, Nova Scotia, Canada. Filed Oct. 19, 1920. Serial No. 417,867. 1 Claim. (Cl. 246—207.)



A train stop comprising a valve mounted on the brake pipe line of the locomotive, and a lever on the valve, an angularly disposed skeleton frame, side clamping members and bolts securing the skeleton frame to a rail in advance of the locomotive, a serrated rod in front of the skeleton frame designed to engage the lever, and signaling means on the top of the serrated rod.

1,388,284. CABINET FOR PHONOGRAPHIC RECORDS. ANDREW E. MICHAELSON, Portland, Oreg. Filed Nov. 22, 1919. Serial No. 339,891. 6 Claims. (Cl. 211—16.)

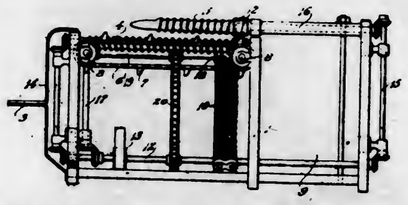


1. In a device of the character described, the combination of, a cabinet of desired form, a rigid transverse bar in a desired position in the cabinet, a triangular frame pivoted in its upper rear part on the bar, a series of cartons pivoted on the cabinet bar, said cartons being provided with notches in their lower parts, bell crank lever mechanism upon the interior, forward and lower part of the cabinet side walls, provided with a transverse bar, and a lever mechanism upon the interior forward upper side walls of the cabinet provided with a handle extending outwardly from the cabinet and intervening means connecting said lever mechanism with the bell crank lever mechanism and the said frame in a manner whereby the bar of the bell crank lever may engage a carton in its lower notch, when the said bar is moved forwardly beyond the bell crank center and the carton is moved upwardly, and to retain the carton in such raised position, also to release the carton when the bell crank bar is depressed and the bell crank moved reversely over its center.

1,388,285. PROCESS OF MANUFACTURE OF BLANC FIXE. GRANVILLE MOORE, San Francisco, Calif. Filed Aug. 13, 1919. Serial No. 317,384. 3 Claims. (Cl. 23—13.)

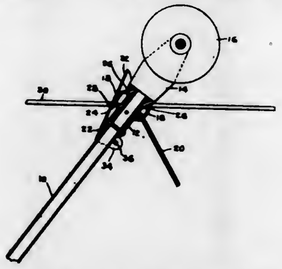
3. The method of producing blanc fixe which consists of mixing finely divided crude barytes with sodium chlorid and alkali metal nitrates, subjecting the mixture to fusion, then chilling the fused mass by discharging it into cold water.

1,388,286. CORN-HUSKING DEVICE. SAMUEL E. MORRAL and WILLIAM W. MORRAL, Morral, Ohio. Filed June 14, 1919. Serial No. 304,209. 15 Claims. (Cl. 130—5.)



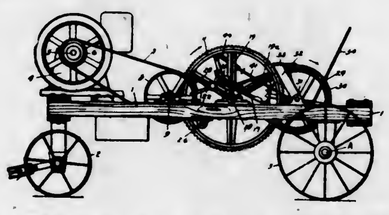
1. In a device of the character described, a rotatable ear removing device, a structure having means to support stalks of corn in horizontal position relatively to the opposite sides of the ear removing device and means operative substantially in the plane of said supporting structure for moving said stalk axially of said ear removing device to aline the same therewith and also transversely of said ear removing device to bring the ear into engagement therewith while said stalk is supported in substantially a horizontal position on said supporting structure.

1,388,287. DEVICE FOR PREVENTING WRECKING OF CROSS-WIRES OF TROLLEY SYSTEMS. WILLIAM F. MURRAY, Minneapolis, Minn. Filed Apr. 1, 1921. Serial No. 457,754. 1 Claim. (Cl. 191—74.)



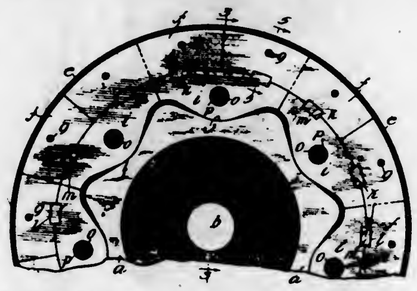
A device for preventing wrecking of cross wires of trolley systems comprising a transversely curved shield, a pair of enveloping ears at one end of said shield, and means for securing said ears around a trolley pole adjacent its head in such manner that said shield may be moved to cover said head according to which of the opposite sides of the latter is uppermost.

1,388,288. HOISTING DEVICE. HIRAM MYERS, Sterling, Ill. Filed Aug. 2, 1920. Serial No. 400,616. 7 Caims. (Cl. 255—9.)



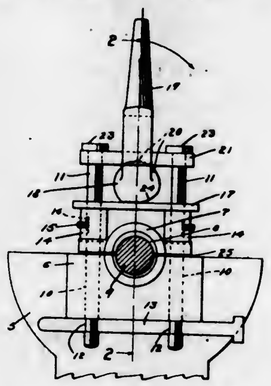
1. A device of the class described, comprising a suitably mounted frame; a shaft rotatably mounted on said frame; a drum supported on said shaft, so as to rotate independently thereof; a drive-wheel fixed to said shaft, in proximity to said drum; coupling devices carried by said wheel, adapted to connect said wheel and drum so as to rotate in unison; means for disconnecting said coupling devices upon said drum receiving a predetermined amount of movement; means for holding said devices in disconnected position; and means for releasing the same.

1,388,289. ELASTIC WHEEL. EDWARD NEELY, Chicago, Ill. Filed Dec. 26, 1917, Serial No. 208,899. Renewed Jan. 19, 1921. Serial No. 438,524. 4 Claims. (Cl. 152—36.)



1. In an elastic wheel, the combination with a rigid hub annulus, of a rigid rim annulus surrounding the same, one of said annuli having its periphery adjacent the other waved in its outline, and a rubber cushion annulus secured to the annulus that is opposed to the waved periphery of the other and having a coöperating waved periphery normally separated from the opposed waved periphery at the alternating crests and hollows of the wave-

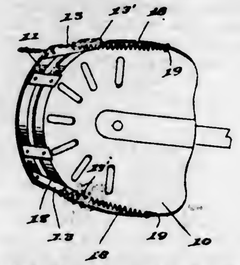
1,388,290. CLAMPING DEVICE FOR BEARINGS. JOYCE C. NELSON, Tracy, Minn., assignor of one-third to George T. Schesvold, Minneapolis, Minn., and one-third to Robert J. Nelson, Gales, Minn. Filed Apr. 5, 1920. Serial No. 371,423. 6 Claims. (Cl. 29—1.)



1. The combination, with a bearing block, of guide rods mounted therein, a cap mounted for vertical movement on said rods and between which and said block the shaft is seated, a presser bar, vertically movable on said rods, and means for exerting a downward pressure on said bar and bearing cap.

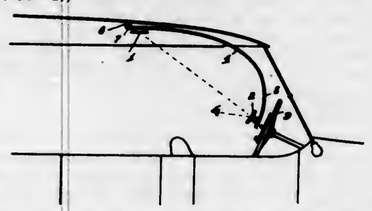
1,388,291. BACKREST FOR FARM MACHINERY. WILLIAM E. NICKLAUS, Madison, Ind. Filed Mar. 26, 1921. Serial No. 455,842. 1 Claim. (Cl. 155—164.)

A back rest for the seat of a farm machine or the like comprising upper and lower horizontal curved strips of different lengths and of different arcs of curvature, vertical connecting strips between the curved strips, downwardly and forwardly inclined side strips connected to the ends of the curved strips, hinged connections between



the side strips and the seat of the machine, and springs connected to the side strips and to the seat forwardly of the said hinged connections.

1,388,292. COMPASS. OLE P. NOISOM, South Bend, Ind. Filed Sept. 13, 1920. Serial No. 410,048. 2 Claims. (Cl. 88—1.)



1. The combination with a motor driven vehicle having a top and a steering wheel, of a compass located adjacent said top and to the rear of said steering wheel, a supporting arm, said compass being substantially horizontally disposed and carried by the supporting arm, the rear end of said supporting arm being secured to the top, said supporting arm extending forwardly and curving downwardly and terminating adjacent the steering wheel and a reflecting mirror carried by the downwardly extending portion of said arm and entirely supported by said arm.

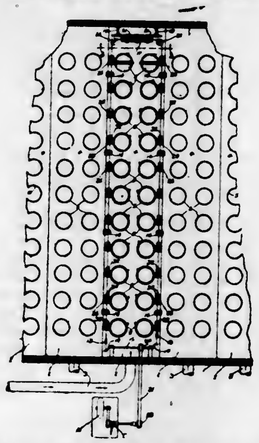
1,388,293. BELLOWS-BOX. FRANK J. NOVOTNEY, Kansas City, Mo. Filed Oct. 10, 1919. Serial No. 329,861. 1 Claim. (Cl. 43—146.)



A bellows box comprising a receptacle composed of a pair of box sections, one of which is of flexible material providing a diaphragm portion, a spring element interposed between said sections and comprising a wire coil having a branch portion engaging said diaphragm and a second branch portion resting against the opposite portion of the box, diametrical strips provided with retaining fingers engaging said branch portions for holding the same in position, and retaining means holding said box sections together against the action of said spring.

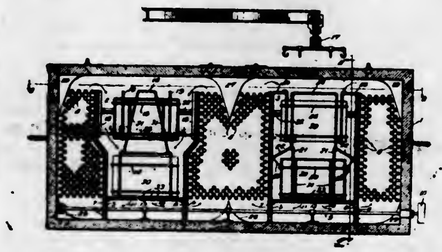
1,388,294. SHAKING MECHANISM FOR FILTERING APPARATUS. JOHN EDWIN PEDERSEN, Hillsboro, Ill., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a Corporation of Maine. Filed Dec. 13, 1920. Serial No. 430,559. 8 Claims. (Cl. 183—58.)

1. In mechanism of the class described, the combination of a gas-tight hopper, an outlet flue from the hopper, a vertically suspended bag having its lower end connected to the wall of said flue, a device connected with the walls of the bag for imparting thereto a torsional shaking motion in opposite directions to dislodge the residue from the walls of the bag and discharge the residue into said



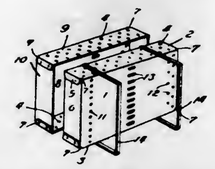
flue, and mechanism for operating said device alternately in opposite directions to shake the bag torsionally, as aforesaid.

1,388,295. REFRIGERATING APPARATUS. PAUL W. PETERSEN, Chicago, Ill. Filed Apr. 13, 1921. Serial No. 460,970. 17 Claims. (Cl. 62—101.)



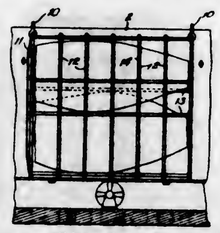
1. In a refrigerating apparatus, a tank containing a refrigerant, compartments therein embodying means for supporting comestibles during their refrigeration, the space without said compartments being approximately equal to the space within said compartments, and means for circulating said refrigerant downwardly through said compartments and around said comestibles.

1,388,296. CONTAINER FOR COMESTIBLES. PAUL W. PETERSEN, Chicago, Ill. Filed May 4, 1921. Serial No. 466,631. 11 Claims. (Cl. 62—1.)



1. A container for comestibles comprising a rectangular box member and a telescopic lid therefor, the ends of said box and of said lid being closed and the sides thereof being perforated to permit of a transverse flow of a refrigerant through the container.

1,388,297. RACK FOR COMESTIBLES. PAUL W. PETERSEN, Chicago, Ill. Filed May 4, 1921. Serial No. 466,632. 4 Claims. (Cl. 62—1.)

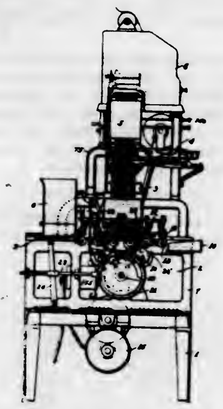


1. A rack for comestibles adapted to be immersed in a refrigerant and comprising an open-work frame to permit the comestibles held in said rack to come in direct contact with the refrigerant, a plurality of side-by-side partitions supported in said frame, said partitions being perforated to form a plurality of transverse and superposed rows of pigeon holes that are severally adapted to support comestibles longitudinally of their length, the pigeon holes in one row being staggered with respect to those in the adjacent row.

1,388,298. METHOD OF PRESERVING COMESTIBLES. PAUL W. PETERSEN, Chicago, Ill. Filed June 4, 1921. Serial No. 475,042. 7 Claims. (Cl. 99—14.)

3. The process of preserving a comestible which comprises refrigerating the comestible with a brine solution to the point where the brine solution may subsequently be washed off by cold water without the comestible being substantially deprived of its inherent cold, then washing the comestible with cold water, then subjecting the comestible to the action of cold air, then glazing the comestible by immersing it in an ice water bath, and then storing the comestible in air maintained below the freezing point.

1,388,299. COMBINED PERFORATING AND PRINTING TABULATOR MECHANISM. JAMES POWERS, New York, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 17, 1917. Serial No. 149,203. 25 Claims. (Cl. 235—58.)



1. In an apparatus of the character described, the combination of an accounting machine comprising settable stops; a perforating machine comprising settable members; key members; and means actuated by the actuation of the key members for causing the key members to be brought from operative relation with certain of said stops and settable members to operative relation with others thereof.

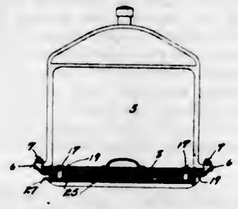
3. In an apparatus of the character described, the combination of an accounting machine comprising groups of movable stops arranged one behind the other; a perforating machine comprising a plurality of groups of settable members; a carriage; key members on said carriage and adapted to operate said stops and members of certain of said groups; and means actuating by the actuation of the key members for moving said carriage for moving said key members from operative relation with certain of said groups to other groups thereof.

7. In an apparatus of the character described, the combination of an accounting machine comprising settable stops; a perforating machine comprising settable members and manipulating means for simultaneously causing the release of the stops and settable members.

17. The combination with a perforating machine and a printing tabulator, of a key board device arranged to operate both of said mechanisms, said device comprising a framework, a plurality of main key bars mounted in said framework, a plurality of auxiliary key bars arranged adjacent to the main key bars, means for normally holding the auxiliary key bars in operative connection with the main key bars whereby a movement of the main key bars will operate the auxiliary key bars.

24. In a mechanism of the class described, a perforating machine having a plurality of punches, means for setting said punches, a printing tabulator arranged above the perforating machine, means for setting said printing tabulator and a key board mechanism arranged between the perforating machine and the printing tabulator and having elements arranged to operate the setting means of both of the said mechanisms.

1,388,300. HEATER FOR AUTOMOBILE-RADIATORS. AMANDUS PRIEBE and HUBERT PRIEBE, Antigo, Wis. Filed Nov. 22, 1920. Serial No. 425,931. 3 Claims. (Cl. 126—350.)

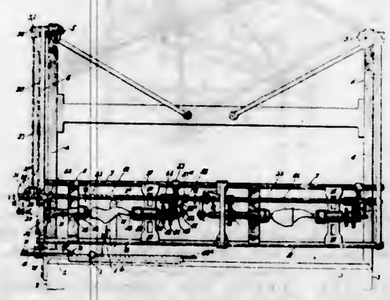


2. An automobile radiator heater comprising a casing adapted to contain prepared fuel, means for securing the casing against the front face of a radiator, a series of outlet ports in the upper portion of the rear wall of the casing, a series of inlet ports in the lower portion of the front wall of the casing, a face plate inside the casing and extending across the front, top and bottom sides thereof and having flanges facing the top and bottom portions of the rear side of the casing, inlet ports in the lower portion of the front wall of the plate, means for sliding the plate in the casing to cause the inlet ports thereof to cover or uncover the inlet ports of the casing and slots in the upper rear flange in alinement with the outlet ports of the casing.

1,388,301. MANUFACTURE OF ARTICLES HAVING A SYSTEMATIC RESEMBLANCE TO A PATTERN. EDWIN J. PRINDLE, East Orange, N. J., assignor, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed Apr. 27, 1918. Serial No. 231,154. 56 Claims. (Cl. 142—15.)

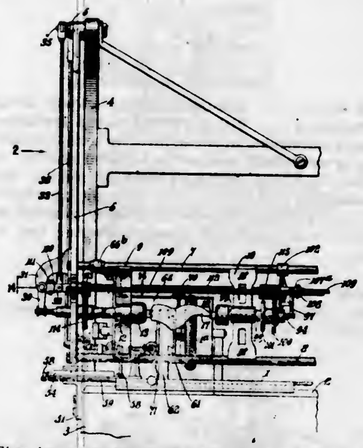
1. That improvement in the art of copy turning lasts which comprises so controlling the model that each point of a certain profile of the model shall be at the same distance from the axis of rotation at the instant when the model wheel is operating on the said point.

10. In a last turning lathe, the combination of a model wheel and cutter, means for rotating a model and block, and means for so shifting the model and block bodily during the turning operation that the portions of the profiles of the soles of the model and block being operated upon by the model wheel and cutter, respectively, shall always be at a fixed distance from the axis of rotation.



56. That improvement in the art of pattern copying which comprises so controlling the model and work that portions of corresponding contours of them at the instant of reproduction are at affixed distance (which may be zero) from a grading axis.

1,388,302. MANUFACTURE OF ARTICLES HAVING A SYSTEMATIC RESEMBLANCE TO A PATTERN. EDWIN J. PRINDLE, East Orange, N. J., assignor, by mesne assignments, to Fitz-Empire Double Pivot Last Company, Auburn, Me., a Corporation of Maine. Filed June 25, 1918. Serial No. 241,864. 30 Claims. (Cl. 142—15.)

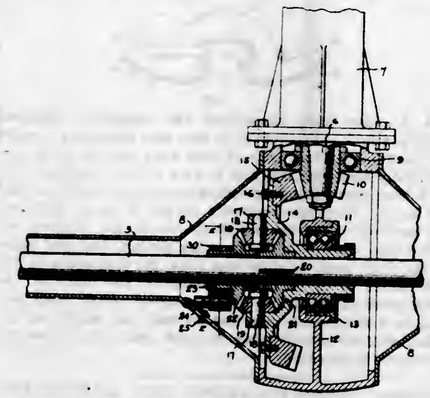


1. That improvement in the art of manufacturing lasts which comprises revolving a block on a fixed axis, revolving a model, and bodily shifting the model relatively to its axis a distance proportional to the difference in radius between the point of the profile of the last being operated upon and another point or points in the said profile.

9. In a last turning lathe, the combination of means for bodily shifting the model relatively to its axis of revolution a distance equal to the radius of that portion of the sole profile of the model which is being operated upon by the model-wheel, and means for varying said distance in accordance with the ratio of change in the width of the last.

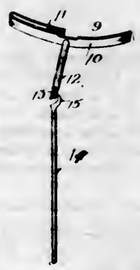
17. In a last turning lathe, the combination of means for rotating a model and a block, a cam having the shape of a longitudinal profile of the sole of the model, a part progressively engaging points of the said cam corresponding to points of the sole of the model engaged by the model-wheel of the lathe, a lever operated by said part, a second part engaging said lever, means for shifting said model relatively to its axis, connections between said part and said means, and means for adjusting said second part on said lever to transmit motion of said first-mentioned part to the model in accordance with the width ratio.

1,388,303. VARIABLE-SPEED POWER-TRANSMISSION. OSWALD S. PULLIAM, New York, N. Y. Filed Aug. 7, 1919. Serial No. 315,918. 1 Claim. (Cl. 74—34.)



A device of the character described comprising a driving shaft and a driven shaft, a bevel gear loosely mounted on the driven shaft, a bevel gear carried by the driving shaft and meshing with the bevel gear on the driven shaft, a second bevel gear loosely mounted on the driven shaft, said last-mentioned bevel gear having a hub extension, a bevel gear keyed to the driven shaft and interposed with respect to the two loosely mounted bevel gears on the driven shaft, a plurality of idle gears carried by the first-mentioned loosely mounted gear on the driven shaft and engaging the second-mentioned loosely mounted gear on the driven shaft and the bevel gear keyed to the driven shaft, and a friction brake engaging the hub extension of the last-mentioned loosely mounted gear for retarding the movement thereof and through the medium of the first-mentioned loosely mounted gear on the driven shaft and the idle gears carried thereby serving to transmit power from the driving shaft to the driven shaft through the bevel gear keyed thereto.

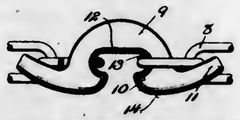
1,388,304. NECKTIE-HOLDER. ALEXANDER RADIN, New York, N. Y. Filed Jan. 5, 1921. Serial No. 435,095. 2 Claims. (Cl. 2—84.)



1. A device of the class described comprising a member adapted to be placed against the inner wall of a turned

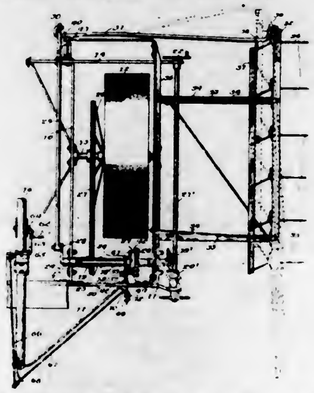
down collar with the ends thereof extending behind the front wall of the collar, said member having one end turned back upon itself to form a clamp adapted to engage around the edge of the outer flap of the collar to clamp said member upon the collar to make itself supporting thereon, and a rod member projecting forwardly and downwardly from said first member, about which latter member a tie is adapted to be tied, said second member being adapted to lie inside the knot of the necktie and to form a support to hold the knot in extended position.

1,388,305. DETACHABLE CHAIN-HOOK. JOHN G. RIEFF, London, Wis. Filed Apr. 9, 1921. Serial No. 459,907. 3 Claims. (Cl. 24—73.)



3. A chain hook comprising two oppositely disposed hook portions connected by a web and extending toward each other, the inner edge of each hook portion being substantially semi-circular, and a wing formed integral with each hook portion and extending outwardly therefrom and having its outer face convexly curved so as to facilitate the passing of the chain link thereover, the distance between the inner side of the wing portion and the point of the hook being slightly less than the free space in the link which is to be passed thereover, the point of the hook being substantially a continuation of the wing portion in the opposite direction so that the weight of the chain will effectually prevent said link from becoming accidentally detached.

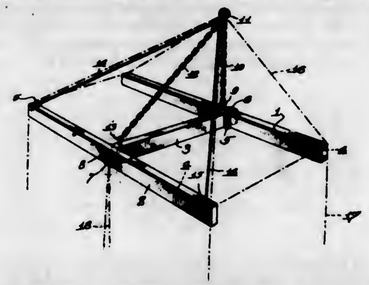
1,388,306. BUNDLE-CARRIER FOR HARVESTERS. CHARLES W. ROBINSON and ERNEST BASEMAN, Hamilton, Ontario, Canada, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 7, 1917. Serial No. 160,512. 11 Claims. (Cl. 56—478.)



1. In a harvester, a bundle carrier comprising a plurality of extending tines, means including a constantly driven mechanism for actuating said tines and dumping said bundle carrier, and means for controlling said constantly driven mechanism operating upon a single actuation to connect said driven mechanism to said carrier to dump said carrier and retain the carrier in dump position until released.

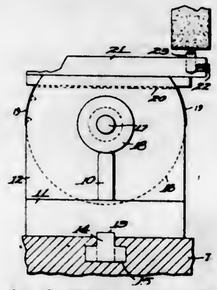
1,388,307. WARDROBE. WILLIAM H. ROBINSON, Detroit, Mich. Filed Dec. 3, 1919. Serial No. 342,081. 2 Claims. (Cl. 45—37.)

1. A wardrobe comprising an inclosure having a peak top and a bag-like bottom, a collapsible three member frame constantly in said inclosure and to which said inclosure is connected, a hanger in the top of said inclosure, and means connecting each member of the collapsible frame



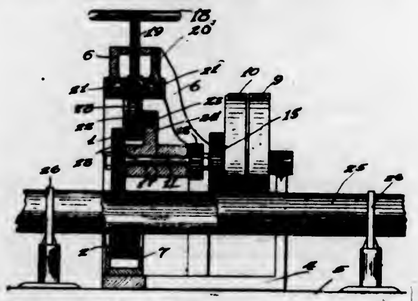
to said hanger so that the frame member may be assembled in said inclosure or said inclosure rolled about the members as a core when said frame is collapsed.

1,388,308. DEVICE FOR DRESSING GRINDING-WHEELS. FRANK P. ROGERS, Worcester, Mass. Filed Jan. 8, 1920. Serial No. 350,115. 2 Claims. (Cl. 125—11.)



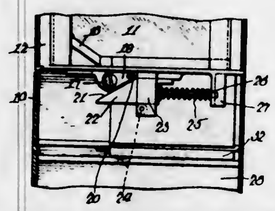
1. A device for dressing grinding wheels having, in combination, a base with a vertical face, a graduated disk angularly adjustable about a pivot in said vertical face, means to secure said member in adjusted position against said face, said base having an index coöperating with the graduations of said disk to show the resulting angle of the wheel face, a tool holding device slidably mounted on said disk, and means to secure a wheel dressing tool to said device.

1,388,309. BOILER-TUBE-CLEANING DEVICE. JAMES ROSS, Chicago, Ill. Filed Oct. 2, 1919. Serial No. 327,969. 7 Claims. (Cl. 29—81.)



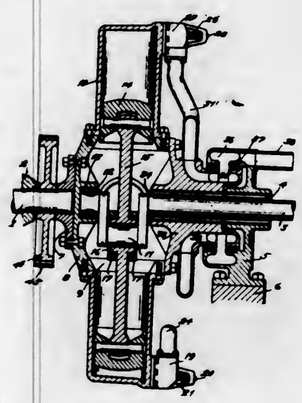
1. A pipe cleaning machine comprising means for supporting a pipe and a rotary cutter having teeth arranged spirally therearound whereby rotation of the cutter simultaneously removes the scale and traverses the pipe over the supporting means.

1,388,310. FARE-BOX. ALBERT RUEBSAMEN and WALTER L. DENNIS, Decatur, Ill. Filed July 19, 1919. Serial No. 311,944. 8 Claims. (Cl. 232—15.)



1. A mechanism of the character described including in combination a main casing or body having a hopper and provided with an opening leading into an intermediate part, a lid or tray for opening and closing said opening, a shaft journaled in said main casing or body and located near one side of said opening, said lid or tray being secured to said shaft, a spring pressed wedge element slidably mounted in one side of said body or casing, and coöperatively arranged with reference to said shaft so as to resist the opening movement of said lid or tray and to force the same to a closed position when pressure on the shaft is released, a sliding closure held closed by a part moved by said tray while the latter is closed.

1,388,311. FLUID CLUTCH AND TRANSMISSION. JOHN M. RUSSELL and FREDERICK C. RUSSELL, San Bruno, Calif. Filed June 12, 1919. Serial No. 303,640. 1 Claim. (Cl. 192—60.)



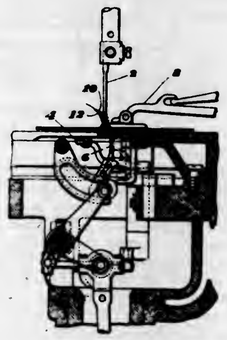
A fluid clutch having a drive and a driven shaft arranged in axial alinement, a cylinder cage secured to said drive shaft and into which the end of said driven shaft extends and is rotatably mounted, a plurality of cylinders mounted on said cage and each provided with a valve controlled fluid inlet port and a valve controlled outlet port, said driven shaft formed within said cage with a crank portion, a piston within each of said cylinders and operatively connected with said crank, a bearing for supporting said driven shaft, a flanged plate secured to said cylinder cage and received within said bearing, said plate provided with a bore within which said driven shaft rotates, said bearing formed at its inner wall with an annular groove communicating with a port, said plate formed with a plurality of bores terminating in an annular peripheral channel communicating with the channel within said bearing, a pressure outlet pipe leading from the outlet port of each cylinder and communicating one with each of said bores, packing between coöperating surfaces of said plate and bearing, and a valve controlling the outlet from said bearing port.

1,388,312. SALIVA-EJECTOR. CARL H. SEEGER, Manitowoc, Wis. Filed Jan. 12, 1920. Serial No. 350,850. 6 Claims. (Cl. 32—33.)



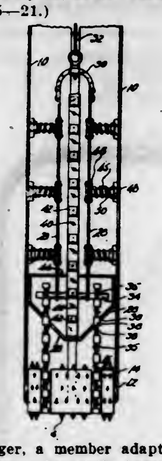
1. An ejector of the class described comprising a suction member having an inner tube of bendable metal, and an outer sheathing of soft yielding material, the outer sheathing being extended at one end beyond the end of the inner tube to form a mouthpiece, an air inlet opening in said inner tube, and means for connecting said inner tube with a suction producing device.

1,388,313. BUTTONHOLE-SEWING MACHINE. HENRY C. SEARLE, West Roxbury, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Aug. 15, 1919. Serial No. 317,655. 5 Claims. (Cl. 112—157.)



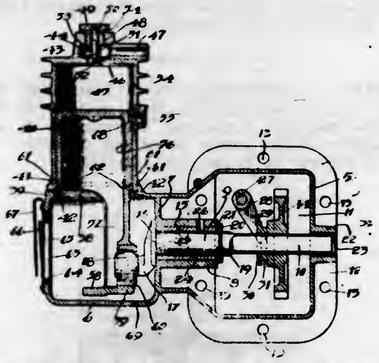
1. A buttonhole sewing machine having, in combination, a vertically reciprocating upper needle, a looper for taking a loop of upper thread and presenting it in position below the work for the passage up therethrough of an under needle, an oscillating curved under needle for carrying a loop of under thread up through the loop held by the looper and presenting it in position for the passage down therethrough of the upper needle provided with a surface arranged to press the point of the needle inward toward its axis of oscillation by engagement with the work as the needle penetrates the work.

1,388,314. WELL-DIGGER. WILLIAM V. SEIFERT, Denver, Colo. Filed July 20, 1920. Serial No. 397,588. 5 Claims. (Cl. 255—21.)



1. In a well digger, a member adapted to be lowered into a hole, a rotary member at the lower end of said member cutting disks on said rotary member, and a conveyer passing over said rotary member and adapted to elevate material loosened by said disks.

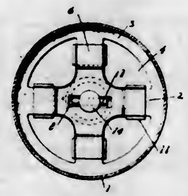
1,388,315. FLUID-PUMP. FRANK D. SHELDON, Chicago, Ill. Filed May 10, 1920. Serial No. 380,096. 2 Claims. (Cl. 230—34.)



1. In a fluid pump, the combination with a combined crank casing and a transmission gear casing, of a crank shaft horizontally journaled therein, a transmission gear slidably mounted on the crank shaft, means to shift said gear, passageways in one of the bearings of the crank shaft affording communication between the crank casing and said gear casing for the passage of lubricant, a cylinder mounted on the crank casing in communication therewith and having an inlet port and an outlet port, a spring-actuated valve controlling the outlet port, a piston located in the cylinder and having a passage-way for fluid coöperating with the inlet port for regulating the inflow of fluid, and means within the crank casing connecting the piston and the crank shaft for effecting combined reciprocating and oscillatory movement of the piston within the cylinder.

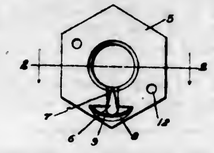
1,388,316. VALVE-HANDLE. FRANK A. STOLL, Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill., a Corporation of New Jersey. Filed May 21, 1921. Serial No. 471,389. 5 Claims. (Cl. 16—117.)

4. The combination with a stem having a transversely extending pin near the end thereof, of a hollow handle having a plurality of inwardly extending ears, a top clamping spider limited in vertical movement and in rotative movement by said pin and having its arm adapted



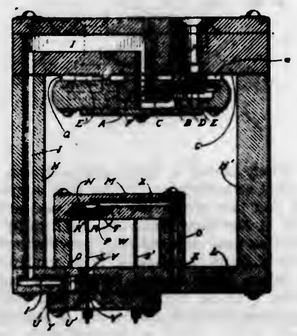
to engage above said ears, a bottom clamping spider having its arms engaging beneath said ears, and means for forcing the bottom clamping spider toward the top clamping spider.

1,388,317. NUT-LOCK. JOHN ARTHUR STUBBLEFIELD, Portland, Oreg. Filed Dec. 11, 1920. Serial No. 429,978. 1 Claim. (Cl. 151—25.)



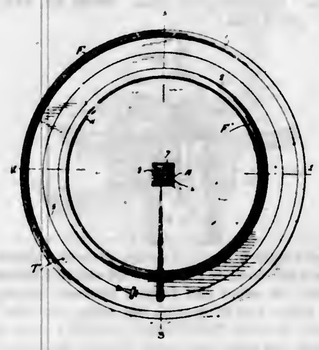
A nut lock including a body portion having a central threaded opening and having a lateral opening in communication therewith, said nut having an opening providing communication between the threaded opening and lateral opening, a spring member having its ends disposed toward the central threaded opening, a wedge member positioned within the lateral opening and having one end thereof extending beyond the wall of the central threaded opening, said wedge having a curved head contacting with the spring, said spring adapted to urge the wedge toward the central threaded opening, and said wedge member adapted to rock in the lateral opening.

1,388,318. PNEUMATIC ACTION FOR PIPE-ORGANS. WILLIS E. AUSTIN, Minneapolis, Minn.; John S. Austin administrator of said Willis E. Austin, deceased. Filed Oct. 5, 1917. Serial No. 194,865. 2 Claims. (Cl. 84—335.)



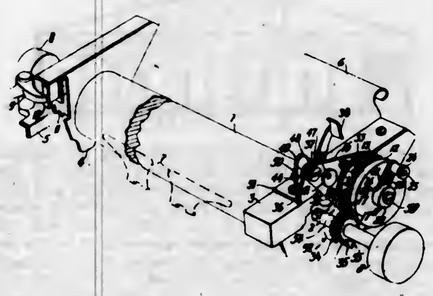
1. A pneumatic action comprising a motor-diaphragm chamber, a flexible motor-diaphragm member loosely fitting within said chamber, and movable bodily throughout its area in said chamber, a valve mounted on said motor-diaphragm member and a wind channel adjacent to said motor-diaphragm member and alternately closed and opened by the movement of said valve.

1,388,319. LANDING-STATION FOR AIRCRAFT. PETER JAMES BACKUS, Delphos, Ohio. Filed Dec. 27, 1920. Serial No. 433,367. 4 Claims. (Cl. 244—2.)



2. A landing station for aircraft comprising a trackway, a guide strip extending along said trackway, and a fencing extending along one side of the trackway and provided with a wall inclined downwardly toward the trackway.

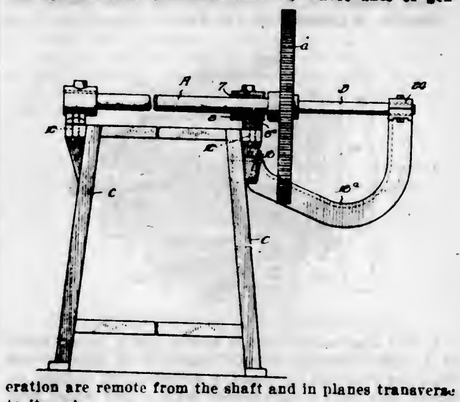
1,388,320. TYPEWRITING-MACHINE. GEZA BACSANYI, Detroit, Mich., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Feb. 3, 1919. Serial No. 274,639. 5 Claims. (Cl. 197—189.)



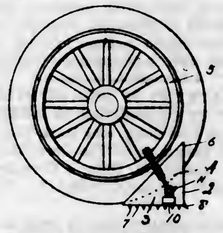
1. In a typewriting machine, the combination with a pinion having a hub, of a scale having a hub into which said first hub projects, and a dog adapted to pass through an opening in said scale hub to variably engage the first hub to position the scale variably thereon.

1,388,321. SELF-ALINING SHAFT-BEARING. WILLIAM BARTHOLOMEW and GEORGE SIMON, Chicago, Ill., assignors to Troy Laundry Machinery Co., Ltd., Chicago, Ill., a Corporation of New York. Filed Sept. 12, 1919. Serial No. 323,246. 11 Claims. (Cl. 64—52.)

1. In a shaft mounting, a shaft, bearings in which said shaft is rotatably mounted, bearing supports, and frames carrying said bearing supports with freedom of adjustment bodily and angularly in a plane parallel to the axis of the shaft; said bearings resting upon the supports through concave cylindrical surfaces whose axes of generation are remote from the shaft and in planes transverse to its axis.

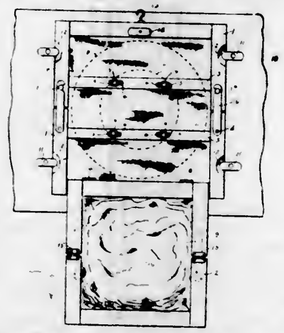


1,388,322. WHEEL-LOCK. MICHAEL BRANCO, Norristown, Pa. Filed Apr. 5, 1920. Serial No. 371,185. 1 Claim. (Cl. 70—90.)



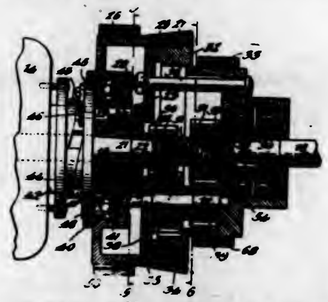
A wheel lock consisting of a triangular shaped body having a chamber adapted to register with a portion of a wheel, means for attaching the wheel lock to a wheel, projections extending from the base wall of said body and other projections extending at an angle from the corner produced at the meeting point of the base with the upright wall.

1,388,323. HAT-CASE. WILLIAM J. BRUCE and FANNIE M. WORTHINGTON, Sterling, Ill. Filed June 16, 1919. Serial No. 304,691. 5 Claims. (Cl. 206—9.)



1. A hat receptacle, comprising a main frame, provided with hat supporting means; a fabric closure for the back thereof; an auxiliary frame adapted to fold into said first-named frame, so as to engage the brim of a hat therein; and a distensible fabric closure for said auxiliary frame, oppositely disposed to said first-named closure.

1,388,324. CHANGE-SPEED MECHANISM. WILLIAM C. CARR, Buffalo, N. Y. Filed July 30, 1920. Serial No. 400,133. 6 Claims. (Cl. 74—34.)

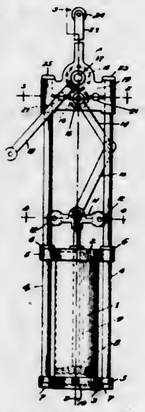


1. The combination with a driving and a driven shaft, of a clutch member slidable relatively to said driving shaft but rotatable therewith, a second clutch member rotatable relatively to said driven shaft, a gear wheel rotatable with said driving shaft, a second gear wheel rotatable with said driven shaft, a planetary gear set carried by said second clutch member and meshing with said driving and driven gear wheels, means for normally holding said clutch members in engagement with each other, automatic means for releasing said clutch members when said holding means are moved to abnormal position, and means for holding said second clutch member against rotation when out of engagement with the companion clutch member.

1,388,325. TREATMENT OF IRON OR STEEL FOR THE PREVENTION OF OXIDATION OR RUSTING. LEE S. CHADWICK, East Cleveland, and MARC RESEK, Cleveland Heights, Ohio, assignors to The Cleveland Metal Products Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 1, 1917. Serial No. 194,117. 7 Claims. (Cl. 148—6.)

1. The process of treating iron or steel, or articles composed of or having a surface of iron or steel, which includes subjecting the said articles to the action of a bath containing a mixture of di-hydrogen and mono-hydrogen phosphates of a metal less basic than iron.

1,388,326. TIRE-PUMP. MORRIS J. CHAIKIN, Detroit, Mich. Filed June 5, 1920. Serial No. 386,861. 6 Claims. (Cl. 230—27.)



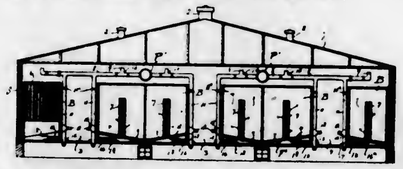
1. A tire pump comprising a cylinder, a standard carried by and projecting upwardly from said cylinder, a piston within the cylinder, a piston rod secured to said piston, a pitman engaging said piston rod, a crank arm engaging said pitman, actuating means for the crank-arm, and a mounting for said actuating means and crank-arm carried by said standard and adjustable from a position of use adjacent the top thereof to a lower stored position.

1,388,327. STOPPER. LOUIS A. CORNELIUS, Grand Rapids, Mich. Filed Apr. 23, 1921. Serial No. 463,780. 3 Claims. (Cl. 4—35.)



1. In combination a sleeve adapted to be located at the outlet of a wash bowl or the like, said sleeve having a cross bar adjacent its upper end formed between its ends with a vertical sleeve and said cross bar being provided with a longitudinal opening therethrough reaching from the vertical opening through the sleeve in the cross bar to the outer side of the first sleeve, a vertical rod passing loosely through said vertical sleeve formed at its lower end with outwardly bent forks and a short distance above the lower end with an annular groove a spring actuated catch located in the opening in said cross bar adapted to press against the rod, and a disk-like stopper member connected to the rod above the upper end of the first sleeve and adapted to close the upper end of said sleeve when in lower position, the catch entering the groove in the rod when the same is moved to an upper position, thereby holding the stopper member against downward movement.

1,388,328. MEANS FOR CURING SWEET POTATOES. WILEY D. COTTON, Dardanelle, Ark. Filed May 8, 1920. Serial No. 379,836. 5 Claims. (Cl. 98—26.)

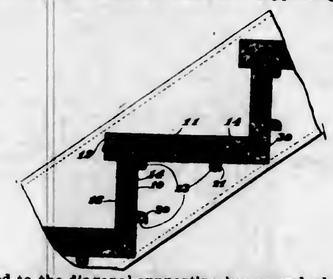


5. A means for curing potatoes embodying the combination with a house structure inclosing a plurality of bins and providing an upper chamber above said bins and hallways, said housing structure being provided with means for exhausting the air from the chamber, and each bin communicating with said chamber, air conduits within the upper portion of the housing and leading from a suitable source of supply; of nozzles interposed in said conduit and each having rocking movement about substantially a horizontal axis, conduits leading from said first named conduits and discharging below the bins, substantially horizontally disposed nozzles interposed in said last named conduits and arranged within the hallways, each of said last named nozzles being adjustable about substantially a vertical axis, said last named conduits also discharging below the floor of the housing, and means for controlling said last named discharge.

1,388,329. STAIRWAY. WILLIAM A. DAVIS, Malden, Mass., assignor to Babcock-Davis Corporation, Boston, Mass., a Corporation of Massachusetts. Filed May 7, 1920. Serial No. 379,493. 3 Claims. (Cl. 72—96.)

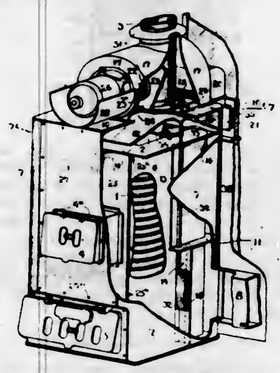
1. A stairway comprising a plurality of substantially parallel diagonal supporting beams, a series of separate concrete stair elements located between the supporting beams and each comprising a tread member and a riser depending integrally from the front portion of the tread

in the rear portion of the tread face to receive the lower member, each of the tread members having a recess formed portion of the next adjacent riser, and supporting means



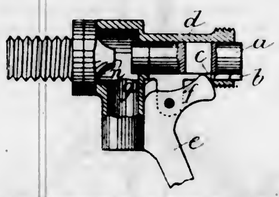
connected to the diagonal supporting beams and adapted to engage directly with the under portion of each tread member to support the separate stair elements from the diagonal supporting beams.

1,388,330. CAR-STOVE. WILLIAM H. GARDINER, Albany, N. Y., assignor, by mesne assignments, to The Peter Smith Heater Company, a Corporation of Michigan. Filed Sept. 20, 1917. Serial No. 192,245. 16 Claims. (Cl. 126—56.)



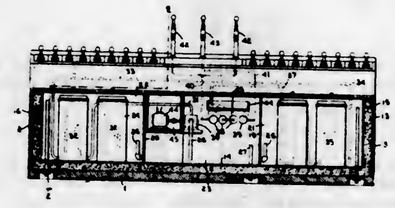
1. In a car stove, the combination of a fire-pot, a plurality of air-heating chambers surrounding it, a fan and means for conducting a blast of air from the fan through the surrounding air-heating chambers in series, or for cutting out part of them at will.

1,388,331. BALL AND FLOAT VALVE. ERNEST ALBERT GEORGE, Chelsea, England. Filed Apr. 30, 1920. Serial No. 377,863. 3 Claims. (Cl. 137—104.)



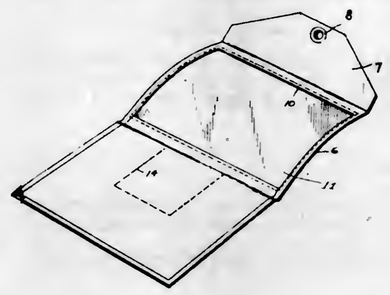
1. A ball or float valve comprising a body formed with an open ended housing and with a slot extending through the wall thereof, a sliding valve member in such housing, a valve lever formed in two parts one of which extends through the slot of the housing into engagement with the sliding valve member and is mounted upon a stationary pivot, while the other part is provided with a float, and means for normally connecting the said two parts of the lever together in a rigid manner in which condition a certain predetermined angular movement of the lever cannot be exceeded, such means being adapted to free the connection between the lever parts whereby the angular movement of the part that engages the sliding valve member can be increased to permit it to be disengaged from the valve member.

1,388,332. REFRIGERATING APPARATUS. JAMES E. GILMAN, Winchester, Mass., assignor of one-half to George A. Ambler, Winchester, Mass. Filed Aug. 7, 1918. Serial No. 248,721. 3 Claims. (Cl. 62—79.)



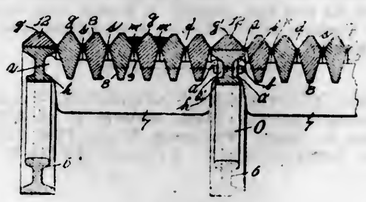
1. A soda fountain cabinet comprising a refrigerating compartment of sufficient size to receive salted ice with ice cream cans embedded therein, a tank for a circulating non-freezing medium and a cooling compartment, a conduit leading from said tank having a series of coils in said refrigerating compartment adapted to be embedded in the salted ice therein and a cooling section extending through said cooing compartment adapted to reduce the temperature of air and objects adjacent thereto in said compartment and a pump for causing circulation of said non-freezing medium through said conduit.

1,388,333. MARCH-FOLIO HOLDER. DWIGHT W. GODARD, Aurora, Ill. Filed Oct. 7, 1920. Serial No. 415,441. 1 Claim. (Cl. 45—58.)



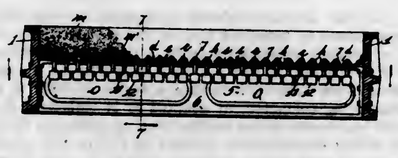
A device of the character described formed of an integral flexible material and comprising a back, a front and a flap, said front having a sight opening formed therein covering substantially its entire area, a sheet of flexible transparent material for covering the sight opening, said transparent material lying directly adjacent the inner face of the back over its entire area so that a music sheet disposed between the transparent material and the back will be visible through said transparent material over the entire surface of the latter and a sheet of material secured to the outer face of the back along both of its sides and across its upper edge and having its lower edge left free to thereby form a pocket for the reception of a supporting element.

1,388,334. GRATE FOR SINTERING-PANS. JOHN E. GREENAWALT, New York, N. Y. Filed Nov. 9, 1920. Serial No. 422,800. 49 Claims. (C. 266—21.)



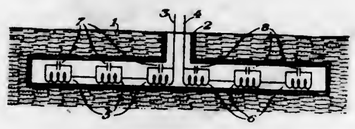
1. A grate provided with a plurality of openings, and having a succession of supports for the material disposed in a plane above said openings.

1,388,335. GRATE FOR SINTERING-PANS. JOHN E. GREENAWALT, New York, N. Y. Filed Dec. 31, 1920. Serial No. 434,212. 15 Claims. (Cl. 266—21.)



3. In combination with a treatment vessel tiltable to dumping position about a fixed axis, a grate for supporting the charge to be treated comprising a succession of individual parallel bars spaced apart, said bars being freely rotatable about their longitudinal axes, and means for causing the adjacent edges of contiguous bars to participate in a separating movement with a dumping movement of the vessel for dislodging the material resting on the bars.

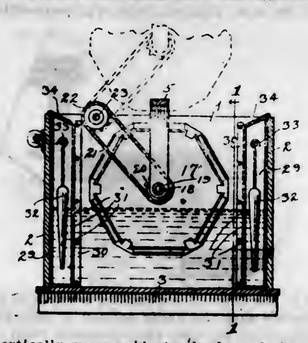
1,388,336. UNDERGROUND AND SUBMARINE ANTENNA. EARL C. HANSON, Washington, D. C. Filed Feb. 25, 1919. Serial No. 279,078. 4 Claims. (Cl. 250—33.)



1. A wireless system for signaling by electro-magnetic waves comprising antennæ formed of free ended spirals extending in opposite directions substantially parallel to and buried under the surface of the earth.

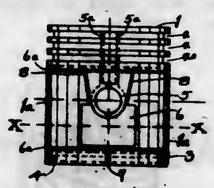
1,388,337. ELECTROPLATING APPARATUS. FOREST H. HARTZELL, Dayton, Ohio. Filed Apr. 22, 1919. Serial No. 291,893. 24 Claims. (Cl. 204—5.)

2. In an electroplating apparatus of the character described, the combination with a vat, a revolube drum, and actuating means therefor, of a pair of inverted U-shaped or goose neck standards straddling the opposite walls of the vat with the inner legs of which the drum is engaged, and actuating means engaging the outer legs of the stand-



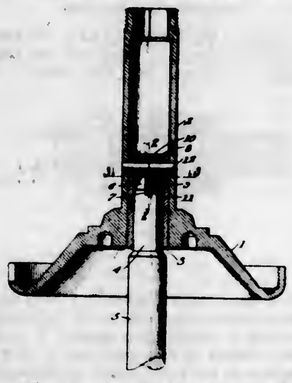
ards to vertically move said standards and the drum carried thereby.

1,388,338. PISTON FOR ENGINES. CHARLIE E. HATCH, Denver, Colo. Filed July 16, 1920. Serial No. 396,652. 5 Claims. (Cl. 74—108.)



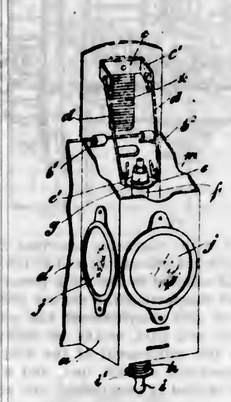
1. A piston composed of a head portion provided with a plurality of piston ring grooves and wrist pin lugs depending th refrom and rigidly supported thereon, a skirt portion depending from said head portion separate from said wrist pin lugs and provided with a full cylindrical portion at the lower end thereof with two cuts therethrough longitudinal in extent, and with an internal ring groove within said cylindrical portion, and an expanding ring within said internal ring groove.

1,388,339. DRIVING-MOUNT FOR THE BOWLS OF CENTRIFUGAL MACHINES. JAMES J. HAY, Bellows Falls, Vt., assignor to Vermont Farm Machine Corporation, Bellows Falls, Vt., a Corporation of Vermont. Filed July 14, 1920. Serial No. 396,155. Renewed June 24, 1921. Serial No. 480,193. 6 Claims. (Cl. 64—48.)



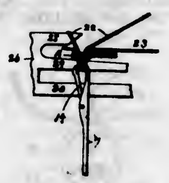
6. The combination with the base and hollow stem of a centrifugal bowl separator, of a hard metal bushing in the lower end of the stem, a hard metal tubular step-member having a flaring bore and tightly fitted in said bushing, a plug tightly fitted in said step-member and having a tongue extending beyond it, a transverse pin engaging the stem, bushing, step-member and plug, and a driving spindle having its upper end surrounded by and engaging the bushing and a frusto-conical tip transversely kerfed or nicked and seated in the step-member and engaged by the tongue.

1,388,340. VEHICLE-LAMP. FREDERICK HAGGER HEADLEY, Birmingham, England. Filed Feb. 26, 1920. Serial No. 361,516. 1 Claim. (Cl. 240—11.)



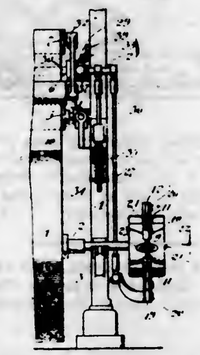
A lamp comprising a casing open at the top and provided with a hinged cover for the top, a burner arranged in the casing for vertical movement, a spring to normally depress the burner, and a link connecting the burner and the cover.

1,388,341. KNITTING-MACHINE. FRANK D. HOLMES and WALTER H. TRICK, Detroit, Mich. Filed Aug. 2, 1919. Serial No. 314,944. 1 Claim. (Cl. 66—26.)



In a knitting machine, a needle cylinder having radial and longitudinal guide grooves, needles mounted in the longitudinal grooves and means for moving said needles up and down, sinkers mounted in the radial grooves and having supporting fingers, tufting points and butts, a sinker cam-ring to move the sinkers in and out, means for guiding a pair of yarns to the sinkers so that one yarn will lie on the other below the tufting points, means to turn the needle cylinder relative to the sinker cam-ring, and means to move the needles down to engage both yarns and pull them through the previous stitch, said sinker cam-ring being formed to hold the tufting points between said yarns until just before the needle in its upward movement passes back of the previously formed stitch and then to move the sinkers back to release the yarn supported thereby so that the pressure of the succeeding sinkers will draw down the loop which has previously been supported by said sinker until it substantially contacts with and covers the other yarn.

1,388,342. TENSION DEVICE. EDWARD POWELL HOPKINS, New York, N. Y., assignor to The Publisher's Utilities Co., New York, N. Y., a Corporation of New York. Filed Jan. 2, 1913, Serial No. 739,715. Renewed June 28, 1918. Serial No. 242,504. 9 Claims. (Cl. 242—75.)



8. A web tension mechanism comprising a web roll shaft, a brake therefor, a web control for the brake having a rock shaft, a plurality of arms extending in different directions from the shaft at each side of the path of the web, and guide rollers carried by the arms and arranged to receive the web under and over them respectively, a tension roll over which the web is received as it passes from the web roll to the guide rollers, means for maintaining the tension roll in yielding contact with the web, adjustable yielding means coöperating with the brake and maintaining a predetermined initial tension in the web, and means connecting the arms and the brake for transmitting movement from the rollers to the brake.

1,388,343. SPARK-PLUG. RAY L. HULL, San Francisco, Calif. Filed Nov. 28, 1919. Serial No. 341,188. 1 Claim. (Cl. 123—169.)

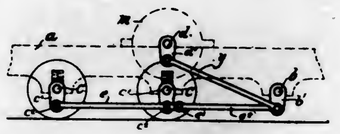


A spark plug such as described comprising a hollow cylindrical base, externally threaded, for engagement with the cylinder walls of an internal combustion engine; a flange within said base adjacent one end thereof; a hollow shell in threaded engagement with the interior of said cylindrical base on the end opposite said flange; an insulated member frictionally centered within said hollow shell having a shoulder thereon adapted to engage said base flange; a plural pointed flat electrode on said insulator end flush with the end of said base; a cap housing adapted to center said insulated member within said hollow shell by engagement with said insulated member and hollow shell and a terminal nut for binding said hollow shell, insulated member and cap housing into an integral unit.

1,388,344. CRANK-GEAR FOR MOTOR-DRIVEN VEHICLES. KALMAN V. KANDO, Budapest, Hungary. Filed Sept. 17, 1920. Serial No. 411,016. 7 Claims. (Cl. 105—120.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

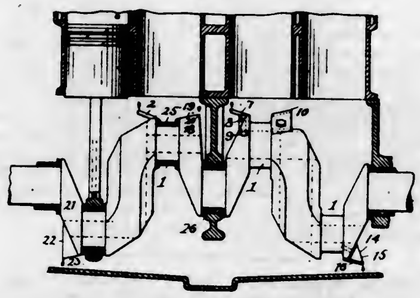
1. In a vehicle, axles, a frame, vertically yielding connections between said axles and said frame, crank-shafts

positively coupled in parallel journaled on said frame motors driving said crank-shafts mounted on said frame, cranks on said axles, a driving-member connected to said cranks, a driving-lever journaled to said driving-member,



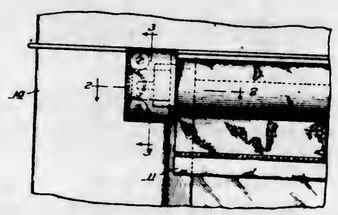
downwardly converging connecting rods pivotally linked at their upper ends at two different points to the positive coupling-member of the crank-shafts journaled on the frame and pivotally linked at their lower ends to two different points of said driving-lever.

1,388,345. MEANS FOR CONTROLLING LUBRICATION OF ENGINES. THOMAS S. KEMBLE, Cleveland, Ohio. Filed May 1, 1920. Serial No. 378,147. 7 Claims. (Cl. 184—11.)



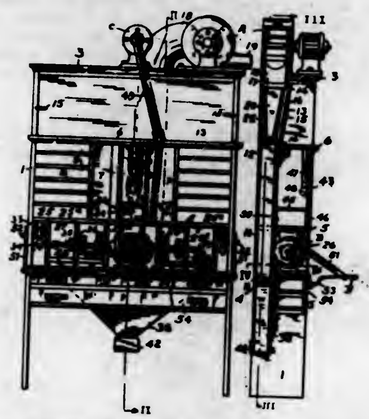
7. In an engine the combination with a cylinder, piston, connecting rod and crank shaft, bearings associated with the crank shaft, means for supplying lubricant to said bearings, of a device secured to the crank shaft at the end of an arm of the crank shaft, said device having a portion with a slanting surface which extends away from the said arm and positioned so that oil escaping from the bearings is centrifugally discharged in predetermined relationship to the open end of the cylinder.

1,388,346. SHADE-ROLLER HOOD. CHARLES W. KIASCH, Sturgis, Mich. Filed Jan. 13, 1921. Serial No. 436,959. 5 Claims. (Cl. 156—24.)



3. In combination with the bracket of a shade-roller, of a second bracket adapted to be clamped and held in position by the first bracket, and a hood adapted to engage said second bracket and when in position to overlie and conceal the end of the shade-roller and said first bracket.

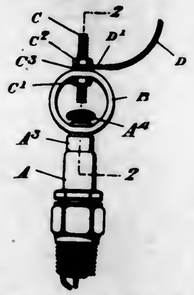
1,388,347. DENTIST'S CABINET. RUDOLF KLICKA, Pittsburgh, Pa. Filed Nov. 16, 1920. Serial No. 424,358. 15 Claims. (Cl. 45—6.)



1. In a cabinet of the character described, the combination of a working compartment inclosed at the bottom, top, sides and rear and adapted to contain a power tool, a port in the floor of said compartment, a drawer slidably mounted on the floor of said compartment and adapted when pushed in to close said port, means for applying suction to said port for the withdrawal of the dust and refuse caused by the operation of said tool, and a rearwardly inclined deflector carried by said drawer and adapted when said port is open to direct said dust and refuse into said port.

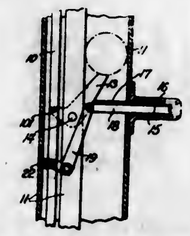
13. In a cabinet of the character described, the combination of a working compartment having a transparent top and provided with suction means for the removal of the refuse of working, and a lamp compartment above said working compartment and whose floor is formed by the transparent top of said working compartment, and said lamp compartment being provided with an opaque front wall to prevent the light shining into the eyes of the operator.

1,388,348. SPARK-INTENSIFIER. KURT R. KOEHLER, Merrill, Wis. Filed Nov. 25, 1919. Serial No. 340,528. 2 Claims. (Cl. 175—183.)



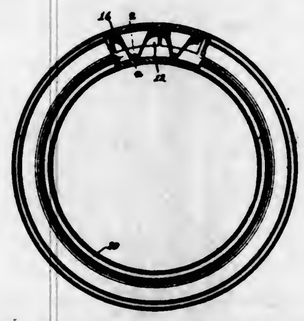
1. In an attachment for spark plugs, an insulated ring provided with two circular orifices, one of which is adapted to receive therethrough the binding post of a spark plug; a second binding post adapted to be inserted through the other orifice; a lock nut upon said spark plug binding post adapted to lock said ring upon said post; a lock nut upon said second binding post within the ring; and a second lock nut upon said second binding post outside of the ring; the said lock nuts upon said second binding post adapted to lock said second binding post upon said ring.

1,388,349. AMMUNITION-HOIST. HUGH WARREN LEE and JOHN WINDLOW SWINDALE, Newcastle-upon-Tyne, England, assignors to Sir W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Filed Mar. 22, 1921. Serial No. 454,471. 2 Claims. (Cl. 89—46.)



1. In a hoist, a trunk, a number of retaining arms pivoted to the trunk, a slider, a number of lifting arms pivoted to the slider, means for raising and lowering the slider, means for rocking the lifting arms on their pivots, a flash tight door in the trunk, and means for rocking the retaining arms and actuating the flash tight door.

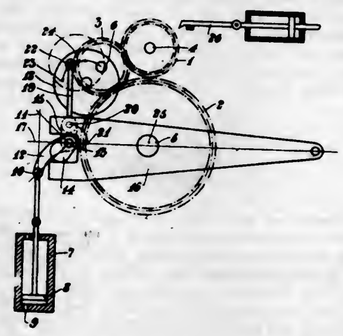
1,388,350. AIRLESS TIRE. CLAUS H. LIGHT, Des Moines, Iowa, assignor of one-eighth to August May and one-eighth to Victorene L. Stamen, Des Moines, Iowa. Filed June 8, 1920. Serial No. 387,450. 1 Claim. (Cl. 152—8.)



An airless tire structure, comprising the combination of a vehicle wheel rim with a flexible resilient casing mounted thereon, a plurality of inwardly opening channel-shaped non-fabric members received in the interior of the tread portion of said casing spaced from said rim arranged in a series circumferentially of the structure and a resilient device arranged in the casing opposite each of said channel-shaped members, and comprising a substantially V-shaped spring fixed at its apex to the rim and having its ends bearing against one of said members and curved to fit against such member, one of said ends being fixed to such member and the other being adapted to slide thereon; each of said resilient members being flat from side to side at its central part, and having its ends channel-shaped to fit the channel shaped members.

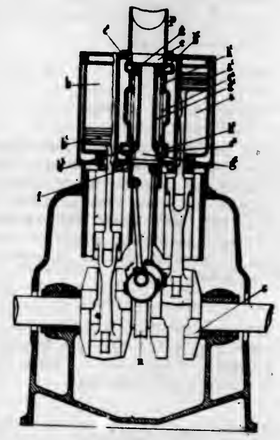
1,388,351. REVERSING DEVICE FOR TOOTHED GEARING. FREDRIK LJUNGSTRÖM, Lidingon-Brevik, ISIDOR BROBERG, Tallhyddan, Skarsatra, and ERIK OTTO ERIKSSON, Ormbunken, Brevik, Lidingon, Sweden, assignors to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden, a Corporation. Filed May 28, 1919. Serial No. 300,380. 20 Claims. (Cl. 74—58.)

1. In toothed gearings, a reversing device comprising a member in gear with any one of the rotating parts of the gearing, motion transmitting members actuated by said member and locking members adapted to lock the revers-



ing device and to be set in operation by said motion transmitting members.

1,388,352. MEANS FOR CONTROLLING ADMISSION AND EXHAUST IN DOUBLE-ACTING EXPLOSION-ENGINES. JOSEPH CHARLES WILLIAM LLOYD, Alperton, England. Filed Sept. 20, 1918. Serial No. 255,004. 4 Claims. (Cl. 123—52.)



1. An explosion motor of the class referred to and having double-acting reciprocating concentric slide and sleeve valves arranged within auxiliary cylinders independent of the main cylinders but communicating therewith and operating for the two main cylinders simultaneously; in which each auxiliary cylinder communicates with the admission pipe at midway of the length of said auxiliary cylinder, with the exhaust pipe at the top of the auxiliary cylinder, and with the top end of one main cylinder and the bottom end of another main cylinder by lateral openings.

1,388,353. APPARATUS FOR COATING THE SURFACES OF FLEXIBLE FOUNDATIONS. ROBERT A. MCQUITTY, London, England. Filed June 20, 1919. Serial No. 305,653. 5 Claims. (Cl. 91—43.)

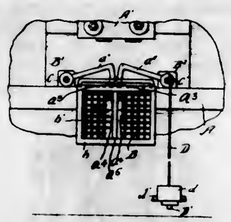
1. Apparatus for coating the surfaces of flexible foundations comprising a tank support, a tank with an opening in one wall thereof, a front piece hinged to said tank support and adapted to cover said opening, a roller mounted in an opening in the lower part of said front

piece, means for moving said front piece upon its hinges, back from the tank to allow of the end of the flexible foundation being passed over said roller mounted in the opening in the lower part of said front piece and placed in position between the front piece and the tank and for moving said front piece forward to a position in which it is in close proximity to the tank after the position of the flexible foundation has been adjusted, a projecting



lip mounted on said tank below said tank opening and adapted to engage the surface of a moving flexible foundation during its passage from said roller between said tank opening and the inner surface of said front piece, a float for raising or lowering the level of the liquid in said tank, and means for adjusting the relation of the tank lip to the surface of said flexible foundation.

1,388,354. SAFETY DEVICE FOR PUNCH-PRESSES. CHARLES C. MADSEN, Chicago, Ill., assignor to Keystone Tool and Die Works, trustee, Chicago, Ill. Filed Dec. 5, 1919. Serial No. 342,592. 6 Claims. (Cl. 74—105.)



1. A device of the class described comprising in combination a press, a guard movable vertically at the front of the bed plate of the press, rotatable blocks supported on the bed plate of the press, rods extending therefrom, arms connected with said blocks and having movable connection with said guard, and means for causing said guard to move to elevated position in advance of the operation of the press.

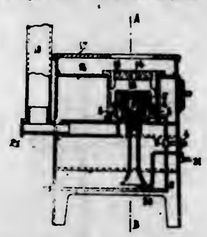
1,388,355. APPARATUS FOR HEATING BY COMBUSTION WITHOUT FLAME. MAURICE MATHY, Flémalle-Grande, Belgium. Filed Apr. 4, 1919. Serial No. 287,657. 5 Claims. (Cl. 158—99.)



3. A furnace having one or more of its heating walls in the form of boxes containing a mass of fragmentary porous, refractory material in the heart of which flameless combustion of a gaseous mixture takes place.

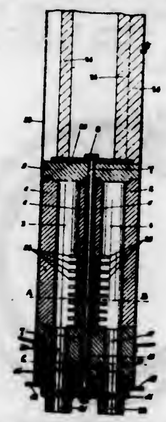
1,388,356. COOKER. MAURICE MATHY, Liège, Belgium. Filed July 17, 1919. Serial No. 311,608. 2 Claims. (Cl. 126—39.)

1. In a gas cooker, the combination of a casing including a top plate; a cooking chamber within the casing; a flameless combustion burner within said casing for heating said top plate and said chamber; a block of refractory material disposed directly above said burner and between the latter and the top plate; a depending draft chimney connected to the bottom of the burner and communicating with the same, said chimney being



open at its lower end for ingress of air and adapted to be heated by radiating heat from the cooking chamber so as to cause a current of air to enter and flow through the chimney into the burner; and means for supplying gas to said burner for admixture with the air.

1,388,357. SURFACE-COMBUSTION GAS-BURNER. MAURICE MATHY, Liège, Belgium. Filed Sept. 21, 1920. Serial No. 411,790. 4 Claims. (Cl. 158—99.)

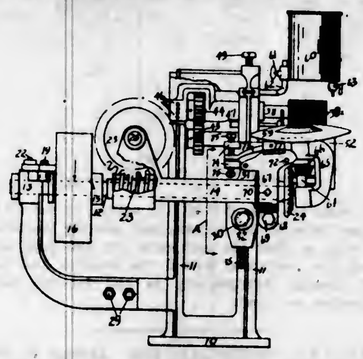


1. A burner for boilers having tubular furnaces heated by the incandescent combustion of a gaseous mixture, comprising a pipe for the admission of air and a pipe for the admission of gas arranged parallel with one another in the furnace tube, apertures provided over part of the length of said pipes, and a mass of porous and refractory granules arranged in the tube around said pipes, so that the gas and air meet among the granules and become intimately mixed and then burnt flamelessly in the mass of granules situated around the imperforate part of the air and gas supply pipes.

1,388,358. SKIVING-MACHINE. BERT E. MAXWELL, Wichita, Kans. Filed Nov. 18, 1920. Serial No. 424,932. 2 Claims. (Cl. 69—16.)

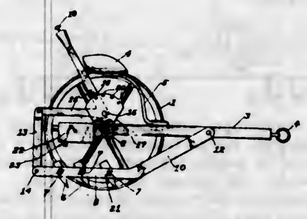
1. A skiving machine including a framework, a drive shaft carried by said frame; said drive shaft carrying a worm, a bevel gear and a clutch; a pulley wheel rotatably mounted on said drive shaft and a clutch face on said wheel, means for engaging said pulley wheel face to said clutch face and for disengaging same when desired, said means including a shifting lever and parts carried by said lever in engagement with parts on said pulley wheel; a disk cutter on a shaft operable through a bevel gear in mesh with bevel gear on said drive shaft;

a jack shaft carrying a worm gear in mesh with the worm on said drive shaft; a bevel gear on said jack shaft; a roller shaft housed in the framework, a bevel gear on said shaft in meshed engagement with the bevel gear on said jack shaft and a roller carried by said roller shaft; a second roller shaft carrying a second



roller arranged in parallelism with the driven roller and pinions on said roller shafts in meshed engagement; the said disk cutter being adapted to revolve adjacent the diametrical axis of said paired rollers during machine operation for the purposes as specified.

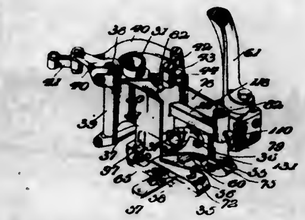
1,388,359. HARROWING-MACHINE. BARTLOMIEJ MAZURYK, Tugaske, Saskatchewan, Canada. Filed Oct. 15, 1919. Serial No. 330,767. 2 Claims. (Cl. 55—19.)



1. In a machine of the class described which includes a draft tongue and a pair of wheels, a pair of separately adjustable harrow units each consisting of an inner and an outer side bar, harrow teeth supported on the rear portions of the said bars, the said rear portions of the outer bars extending adjacent the wheels and the rear portions of the inner bars extending close beside one another at the center of the machine, the forward portion of all of said bars inclining upwardly, while the forward portions of the inner bars also incline outwardly to clear the side of the tongue and the foward portions of the outer bars incline inwardly, means pivotally connecting the forward ends of all of said bars to the said tongue, and a pair of separately operable devices adjustably supporting the rear ends of said bars.

1,388,360. SEWING-MACHINE PRESSER-FOOT. ARTHUR A. MERRITT, Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y., a Corporation of New York. Filed Oct. 24, 1917. Serial No. 198,249. 26 Claims. (Cl. 112—235.)

1. A presser foot having a foot-body, two companion work-contacting surfaces on said foot-body positioned to engage the work at opposite sides respectively of the medial line of the seam and forming between them a notch extending rearward from the forward end of the foot, and means movably mounting one of said surfaces on the foot-body under tension adapted to yieldingly hold it in engagement with work thereunder and enabling it to assume different elevations relative to the other sur-



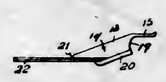
face and foot-body, said mounting means also permitting rocking or tilting of said movable surface in the direction of the length of the seam.

1,388,361. AIRPLANE-LAUNCHING APPARATUS. LOUIS JOHN LE MESURIER, Newcastle-upon-Tyne, England, assignor of one-half to Sir W. G. Armstrong, Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Filed May 6, 1920. Serial No. 379,354. 10 Claims. (Cl. 244—2.)



1. In apparatus for launching an air plane from a restricted area the combination of a track, a carriage adapted to travel thereon, a second track parallel to the first track, a movable member adapted to travel on the second track, and means operatively connecting said track, movable member, and carriage whereby acceleration is imparted to the carriage at the beginning of the movement of said member and retardation is imparted thereto as said member reaches the end of its travel.

1,388,362. WEEDER. AUSTIN E. MILLER, Cheney, Wash. Filed Aug. 12, 1919. Serial No. 316,957. 2 Claims. (Cl. 55—149.)



1. A weeder comprising a frame, a plurality of weeding elements mounted thereon, each of said elements consisting of a single piece of material formed to present a pair of cutting blades and a pocketed shank, and a clearing blade secured in said pocket.

2. A weeder comprising a frame, a plurality of weeding elements secured thereto, each of said elements consisting of a single piece of material, the intermediate portion of which is bent upon itself to form a pocketed shank and a clearing blade secured in the pocketed shank, said intermediate portion being inclined downwardly and rearwardly of the frame, the upper end of said material being secured to said frame, and the lower end of said material being split and flared to present a pair of rearwardly diverging weeding blades arranged parallel to the ground.

1,388,363. DEVICE FOR ATTACHING SHACKLES TO SUBMERGED OBJECTS. JOHN A. MILLER, South San Francisco, Calif. Filed May 17, 1920. Serial No. 382,347. 12 Claims. (Cl. 114—51.)

1. A device for attaching shackles to submerged objects comprising a barrel for projecting a projectile; a shackle connected to the barrel to receive a projectile therefrom

and to temporarily close the mussle of said barrel; means for holding said barrel and shackle adjacent the side of a submerged object whereby projection of a projectile from



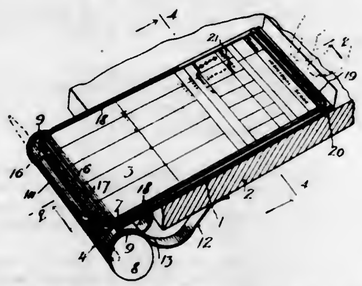
the barrel will secure said shackle to said object; and means for preventing an air pressure within the barrel and in front of the projectile when the same is projected.

1,388,364. CAKE-BAKING PAN. MARY A. MILLER, Lancaster, Pa. Filed Mar. 16, 1921. Serial No. 452,780. 5 Claims. (Cl. 53—6.)



1. A bake pan for cakes having a portion of its bottom raised to produce a hollow or depression in the cake and provided with a channel surrounding said raised portion and adapted to produce a rim for the aforesaid depression.

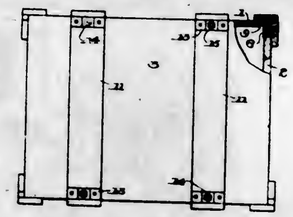
1,388,365. HOLDER FOR MEMORANDA-STRIPS OR GAME-SCORES. GUSTAVE M. MINTON, New York, N. Y., assignor to Leo Schlesinger & Co., New York, N. Y., a Firm composed of Leo Schlesinger, Gustave M. Minton, and Benjamin Levy. Filed Dec. 20, 1917. Serial No. 208,029. Renewed May 28, 1921. Serial No. 473,319. 1 Claim. (Cl. 281—12.)



A device of the class described including a platen, means for holding the platen thereon with one end projecting beyond the support, a tubular casing for holding a supply of paper for use on said platen, arranged beyond the support and below the plane of the platen, said casing having a slot in the top from which the paper is adapted to be drawn over the platen and a frame hinged to the tubular casing beyond said slot and extending over said slot and platen and adapted to hold the extended portion of the paper on the latter.

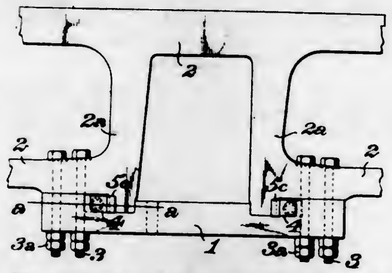
1,388,366. KNOCKDOWN PACKING-BOX. GENJI NAGAI, Tokyo, Japan. Filed Apr. 1, 1920. Serial No. 370,526. 5 Claims. (Cl. 217—12.)

1. A packing box constructed without using any nails characterized by fastening with metal pieces from inside the four side planks in such a way that the side planks can easily be taken to pieces but not from the outside; placing the body of box thus formed between a lid and a bottom, both of which have several notches at their edges; lining said notches with metal plates through



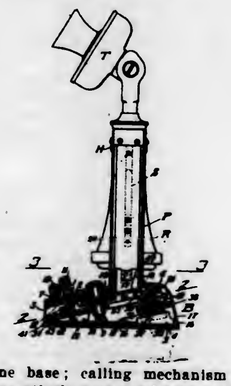
which bolts are passed from the bottom to the lid along the inner sides of side planks; and securing the bolt ends with nuts so that the bolt ends and the nuts screwed thereon are contained within the notches and can be sealed therein, substantially as and for the purposes hereinbefore set forth.

1,388,367. PEDESTAL-TIE. ALFRED C. NEGUS, Schenectady, N. Y. Filed May 18, 1921. Serial No. 470,650. 5 Claims. (Cl. 105—81.)



1. The combination, with a locomotive frame pedestal, of a pedestal tie, having transverse recesses in its upper face adapted to receive the ends of the pedestal jaws; bolts, securing said pedestal tie to the frame; and adjustable clamping devices, fitting between the pedestal jaws and the outer sides of the recesses of the pedestal tie.

1,388,368. CALLING DEVICE. ALFRED T. PALMER, Medford, Mass. Filed Mar. 20, 1919. Serial No. 283,854. 11 Claims. (Cl. 179—90.)



1. A telephone base; calling mechanism within said base; a shaft operatively connected with said mechanism and having one end projecting through said base; a lever

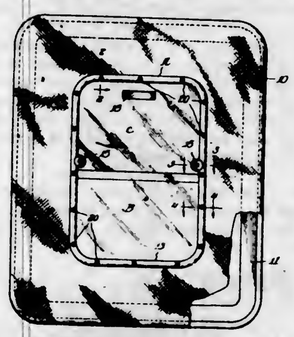
fast on the projecting end of said shaft; a variable stop adapted to limit the movement of said lever in one direction; and a telephone pedestal mounted on said base and so positioned as to limit the movement of said lever in the other direction.

1,388,369. SIGNALING DEVICE. ALFRED T. PALMER, Medford, Mass. Filed Feb. 16, 1920. Serial No. 359,211. 4 Claims. (Cl. 179—90.)



1. In a signaling device, a hollow base for a telephone desk-set; calling mechanism mounted within said base; manually-operative means positioned exteriorly with relation to said base; a vertically disposed shaft connected with said mechanism; a horizontally disposed shaft connected with said means; and means for operatively connecting said shafts.

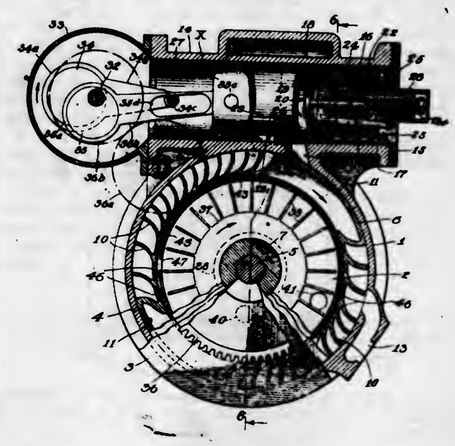
1,388,370. VENTILATING CURTAIN-WINDOW. VICTOR W. PETERSON, Chicago, Ill. Filed Jan. 24, 1921. Serial No. 439,476. 8 Claims. (Cl. 296—145.)



1. A curtain window construction including a frame having a glass slidably mounted therein, which glass is retained within said frame in every position.

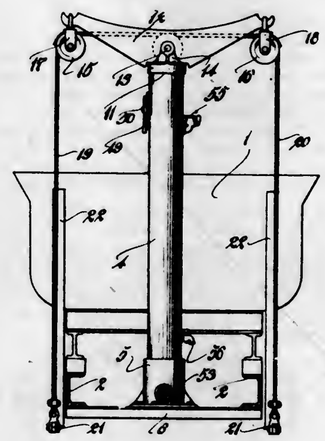
1,388,371. MOTOR. ANDREW J. PIERCE, Chicago, Ill.; Katherine M. Pierce executrix of said Andrew J. Pierce, deceased. Filed May 28, 1918, Serial No. 237,053. Renewed Jan. 27, 1921. Serial No. 440,515. 13 Claims. (Cl. 60—41.)

1. In an internal combustion motor, the combination of a turbine wheel and its inclosing housing, a casing communicating with the said housing through an admission port, said casing being provided with an inlet port for the entrance of the compressed explosive charge, a reciprocating valve cylinder in the casing inclosing a combustion chamber, said valve cylinder being provided with a port adapted to register with the admission port to admit the fired charge to the turbine, means for firing the charge in the combustion chamber, and a plunger-piston



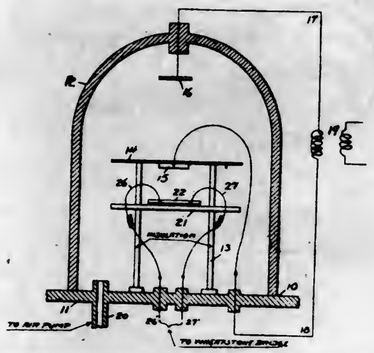
reciprocating in the valve cylinder relatively thereto and adapted to expel the dead products of combustion from the combustion chamber.

1,388,372. BODY-HOIST. HARRY H. RAWSON, Spokane, Wash. Filed Mar. 1, 1920. Serial No. 362,522. 1 Claim. (Cl. 298—21.)



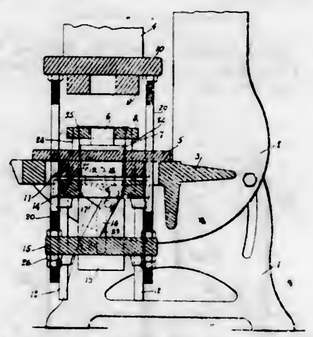
In an appliance as described, the combination of a truck frame and pivoted body, a fixed hollow standard, a reciprocable, non-rotatable head having pulleys in said standard, a head block on the standard, a radially arranged cross arm on said block and central and end sheaves on said arm, cables passed over said sheaves and under said pulleys and connecting the body with said block, mechanism for reciprocating said head, a control lever and connecting rod for said mechanism, spaced abutments on said rod and a tappet on the head between said abutments for automatically moving said rod to control the mechanism.

1,388,373. HIGH-RESISTANCE UNIT. FLOYD K. RICHTMYER, Ithaca, N. Y. Filed Feb. 6, 1919, Serial No. 275,474. Renewed June 3, 1921. Serial No. 474,766. 6 Claims. (Cl. 204—64.)
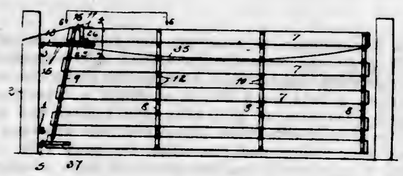


1. A high resistance unit consisting of a convexly formed non-conductive member carrying on its outer face a thin film of metal annealed *in situ*.

1,388,374. PRESS-DIE. FRANK D. RIFNER, Dayton, Ohio. Filed Jan. 29, 1920. Serial No. 355,012. 21 Claims. (Cl. 113—38.)



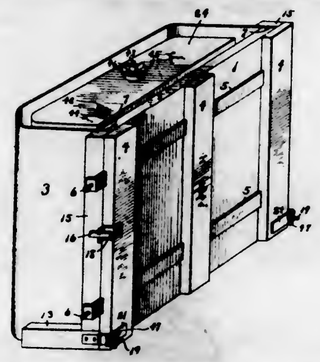
1. In a die mechanism a fixed die member, a movable die carried by the ram of the press, a movable member cooperating with the fixed die to hold the material, a member carried by the ram, and a fixed cam and connections for causing said movable member to remain stationary during the first part of the ram's motion and to follow it, to thus first hold on and then to strip off the material from the fixed die as described.

1,388,375. GATE. ALVIN V. ROWE, Galesburg, Ill. Filed Mar. 8, 1918, Serial No. 221,171. Renewed Feb. 23, 1921. Serial No. 447,222. 15 Claims. (Cl. 39—82.)



1. In a gate of the character described, a gate-slat loop, an element coacting therewith to clasp the gate slat, a U-bolt engaged with one at least of said elements, a locking and releasing member engaging the U-bolt, and a hinge-bar which it is adapted to engage at selective points.

1,388,376. MOLD FOR HOLLOW BODIES. FREDERICK C. RUPPEL, Grand Rapids, Mich., assignor to Hayes-Ruppel Manufacturing Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Nov. 1, 1920. Serial No. 420,966. 11 Claims. (Cl. 25—130.)



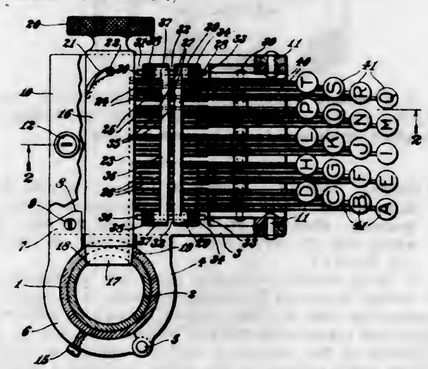
1. In a mold for hollow bodies, a shell comprising a rigid back board, a bottom hinged thereto, a flexible metal sheet constituting three sides of the shell, and packing strips between the contacting portions of the several members of the shell to prevent the escape of water.

1,388,377. MANIFOLD-HEATER. JOSEPH P. RUTH, Jr., Denver, Colo. Filed Nov. 20, 1919. Serial No. 339,361. 11 Claims. (Cl. 263—3.)



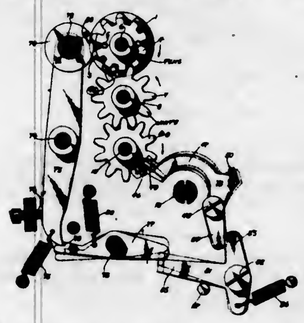
1. In combination, a T-shaped intake manifold, and a heater therefor having open tray-members for fuel underlying the transverse portions of the manifold, said members having means on their upper edges engaging the under sides of said transverse portions, and hooked means overhanging and engaging the top of said manifold whereby the heater is secured thereto.

1,388,378. COMBINATION-LOCK. JOSEF F. SCHICKE, St. Louis, Mo., assignor to Josef F. Schicke, trustee, St. Louis, Mo. Filed July 19, 1918. Serial No. 245,734. 6 Claims. (Cl. 70—60.)



1. In a combination lock, a tumbler having parallel sides and a cam-shaped edge adapted by engagement with a key lever to be moved in a rectilinear path into locking engagement and a key lever adapted to move said tumblers.

1,388,379. CALCULATING-MACHINE. EDWARD C. SCHINKE and NORMAN A. SUTHERLAND, St. Louis, Mo., assignors to Typewriter Calculating Attachment Company, St. Louis, Mo., a Corporation of Missouri. Filed Dec. 13, 1918, Serial No. 266,634. Renewed Feb. 4, 1921. Serial No. 442,594. 20 Claims. (Cl. 235—139.)



1. In a calculating machine, an accumulator provided with digit wheels of different orders, transferring means whereby motion is transmitted from one order to another, said transferring means comprising two transferring members one of which is driven by the other, one of said transferring members being adapted to occupy an idle position in the path of the other transferring member, and means whereby the idle transferring member is displaced to permit independent movement of the other transferring member.

1,388,380. TEAT-CUP. JOHN A. SCHMITT, Columbus, Ohio, assignor to The Universal Milking Machine Company, a Corporation of Ohio. Filed July 14, 1919. Serial No. 310,727. 14 Claims. (Cl. 31—102.)



1. In a teat cup, a cup, a flexible lining therefor of greater length than the cup, said lining being attached at one end to said cup, the opposite end of the lining being folded outward over and inclosing the opposite end of said cup, and a rigid band inclosing the overturned end of the lining having therein a series of peripheral corrugations.

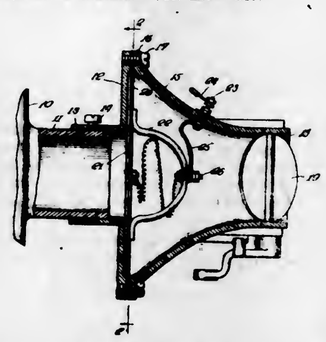
3. In a teat cup, a cup member, a flexible lining therefor of greater length than the cup member and attached thereto at one end, the opposite end of the lining being folded outward over and inclosing the end of the cup member, and a rigid retaining band having therein a series of peripheral corrugations whereby the overturned portion of the lining is engaged by said band with different pressure at different points thereof.

5. In a teat cup, a cup member of rigid material having a peripheral bead, a flexible lining therefor of greater length than the cup attached thereto at one end, and folded outward over and inclosing the peripheral bead of the cup member at the opposite end, a rigid retaining band inclosing the out turned portion of the lining having an interior groove registering with said bead when in adjusted position, the constricted portion of the band engaging the lining beyond said bead, and a flaring margin on said band, substantially as specified.

9. In a teat cup, a main cup member and a detachable cap therefor of rigid material having an inturned annular flange of rubber substantially as specified.

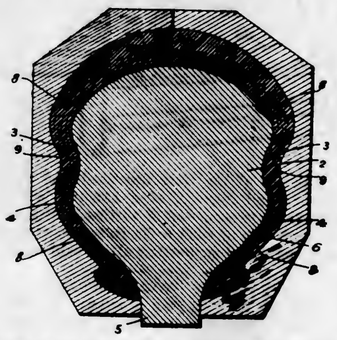
14. In a teat cup, a cup member and a detachable cap therefor comprising a rigid retaining band having an inturned marginal edge and an annulus of non-metallic material in which the inturned margin of the band is embedded.

1,388,381. AIR-PREHEATING DEVICE. LEO W. SCHUESSLER, Chicago, Ill. Filed May 5, 1920. Serial No. 378,996. 4 Claims. (Cl. 219—38.)



1. In air-heating means for internal combustion engines, the combination with a carbureter, of a casing secured to the carbureter intake nozzle and providing an expansion chamber having an inlet opening, heating means disposed within said chamber, and means for closing said inlet opening, whereby when said inlet opening is closed entry of air into the casing is prevented and a quantity of air is held in said casing subject to the action of said heating means.

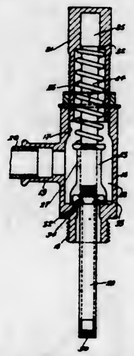
1,388,382. MOLD FOR PNEUMATIC-TIRE TUBES. FRED A. SCHWARTZ, Brooklyn, N. Y. Filed Feb. 10, 1921. Serial No. 443,917. 1 Claim. (Cl. 18—38.)



A casing mold comprising a pair of complementary annular sections each having an annular rib offset from its annular concave molding surface, and an annular core ele-

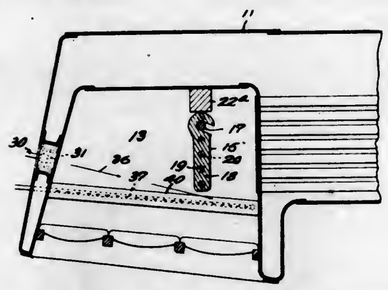
ment having a molding surface normally extending between the said complementary annular sections, the said annular core element having grooves opposite the said annular ribs.

1,388,383. TEMPERATURE-CONTROLLED SAFETY RELIEF-VALVE FOR HOT-WATER BOILERS. CHARLES H. SMITH, Boston, Mass. Filed Mar. 22, 1919. Serial No. 284,378. 11 Claims. (Cl. 137—92.)



1. A temperature-controlled relief valve adapted for use in hot-water systems, comprising a body or casing having a lateral threaded outlet nipple, a threaded inlet nipple at one end, and a threaded removable cap at the other end, in combination with a relief member normally closing said inlet to the entrance of water and having a tube projecting through said nipple and a plug of fusible material sealing the end of said tube, said parts being arranged and related whereby, when the inlet nipple is screwed into a hot-water container, the plugged end of the tube will project into the hot water therein, and whereby, on removing said cap, said member and tube may be removed without detaching said body or casing from said hot-water container.

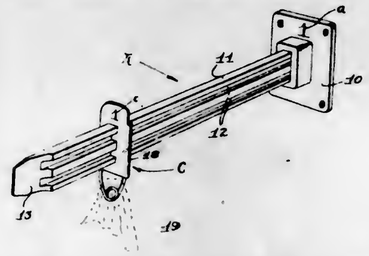
1,388,384. SMOKE-CONSUMER. WILLIAM D. SMITH, Montreal, Quebec, Canada; CECELIA SMITH, Universal Legatee of the estate of said William D. Smith, deceased. Filed May 27, 1918. Serial No. 236,907. 4 Claims. (Cl. 110—63.)



1. In a device of the class described, the combination with a boiler and furnace, of a hanging bridge at the back of the furnace composed of vertically disposed bricks, plates on each side of each brick bolted together through the bricks, and a bar supporting all of said bricks.

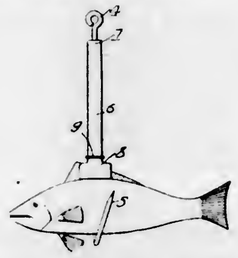
1,388,385. APPARATUS FOR SORTING CLOTHING AND OTHER ARTICLES. ASHLEY M. STOKOE, St. Paul, Minn. Filed Dec. 16, 1919. Serial No. 345,433. 3 Claims. (Cl. 40—26.)

2. In a device of the class described, a rack, a marker adapted to be applied to and supported by the rack, said marker comprising a body and a pin adapted to be caught in an article of clothing or the like and having a yielding member, clasps on the body to secure said yielding member, said body having a notch therein to receive the rack,



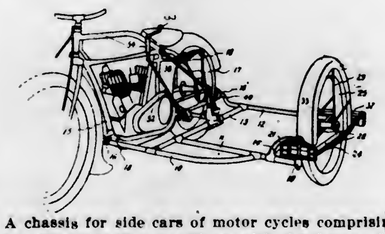
said yielding member being adapted to obstruct the open side of said notch and secure the marker upon said rack, said notch being designed to conform with and fit the rack.

1,388,386. BAIT-HOLDER FOR FISHHOOKS. SVEN SVENSON, La Crosse, Wis. Filed Oct. 27, 1919. Serial No. 333,672. 1 Claim. (Cl. 43—40.)



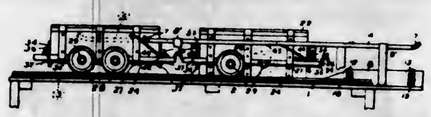
A bait holder comprising, in combination with a barbed hook, a pair of elongated resilient shanks, fixedly secured at one end to the eyelet end of the hook, the separated ends of the shanks disposed in proximity to the hook and terminating in transversely widened, relatively flat gripping heads shaped to grip without mutilation, the interposed fin or other part of the bait disposed within and extending crosswise of the hooked arch, and a member embracing and slidable lengthwise on said shanks for drawing the heads together so as to clamp and securely hold the bait.

1,388,387. CHASSIS FOR SIDE CARS OF MOTOR-CYCLES. ALBERT SAMUEL SWAN, Coburg, and JOHN ALBERT YEATS, Richmond, Victoria, Australia. Filed Dec. 22, 1919. Serial No. 346,780. 13 Claims. (Cl. 208—45.)



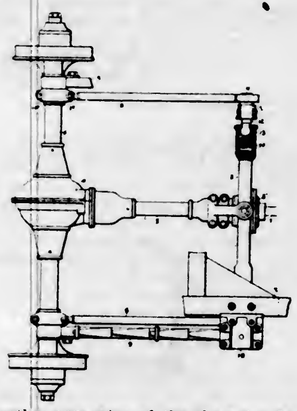
1. A chassis for side cars of motor cycles comprising a frame having pivotal connections with the frame of the cycle, an adjustable connection between the chassis frame and the frame of the cycle, and means for effecting an adjustment of the said connection to tilt the cycle to and from the chassis when the said cycle is in motion.

1,388,388. AUTOMATIC CAR-DUMP MECHANISM. DAVID L. SWANK, Davidsville, Pa. Filed Mar. 29, 1920. Serial No. 369,535. 2 Claims. (Cl. 214—63.)



1. A car dump mechanism comprising the combination with a car having a dumping bottom and a releasable latching element carried by the car for normally maintaining the bottom closed, of a stationary element adapted to engage and actuate the latching element during the travel of the car to release the dumping bottom to cause discharge of the load, and means for restoring the bottom to the closed position as the car continues its travel, said means including a stationary grooved member provided with two pairs of resiliently supported rollers.

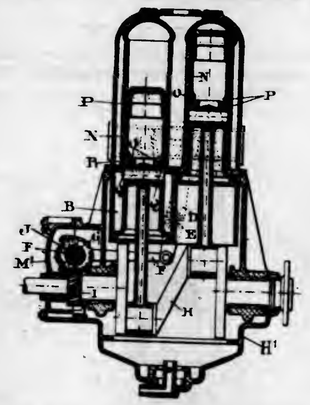
1,388,389. SUPPORTING APPARATUS FOR THE REAR-WHEEL SHAFT OF A MOTOR-CAR. SHINKICHI TAMURA, Kobe, and MASANORI WATANABE, Tokyo, Japan; said Watanabe assignor to said Tamura. Filed Aug. 1, 1918. Serial No. 247,883. 4 Claims. (Cl. 180—85.)



1. Supporting apparatus of the character described including in combination with the chassis, rear axle housing and propelling means for the rear wheels of a motor vehicle, a hanger having its ends universally connected with the sides of the chassis, a universal joint supported by the hanger and interposed in the driving shaft of the propelling means, thrust shafts between the end portions of the hanger and the rear axle housing and springs between the chassis and the rear axle housing.

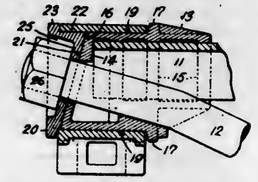
1,388,390. TWO-STROKE-CYCLE INTERNAL-COMBUSTION ENGINE. LOUIS VICTOR THOMAS and JOSEPH-ALEXANDRE GUÉRIN, Lyon, France, assignors to Societe Anonyme du Moteur L. Thomas, Lyon, France. Filed May 14, 1920. Serial No. 381,459. 1 Claim. (Cl. 123—59.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

In a two-stroke cycle internal combustion engine the combination of a cylinder having an explosion chamber and a pump chamber, a piston working in said chambers, a valve box having a gas inlet port, a gas delivery port, and a port communicating with said pump chamber, a reciprocating slide valve in said box controlling said ports, a crank shaft actuated by said piston a shaft arranged transversely to said crank shaft, actuating means connecting said crank shaft to said transverse shaft, an eccentric on said transverse shaft lever mechanism connecting said eccentric to said valve whereby said valve is reciprocated, a magneto connected to said transverse shaft,



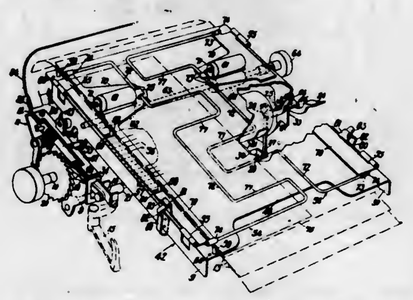
a lubricating pump connected to said transverse shaft, and a box having a removable cover inclosing said transverse shafts and eccentric.

1,388,391. BRAKE-BEAM. ERNEST R. VIBERG, Montreal, Quebec, Canada. Filed Feb. 2, 1920. Serial No. 355,742. 10 Claims. (Cl. 188—229.)



3. In a brake beam, the combination with compression and tension members of an end member formed in two parts, one of said parts being recessed to receive the compression member and form an abutment therefor and the other part being recessed to receive the tension member nut and form an abutment therefor.

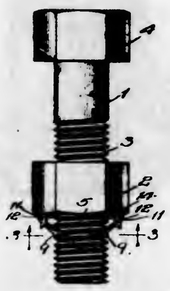
1,388,392. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 4, 1919. Serial No. 269,562. 26 Claims. (Cl. 197—127.)



1. In a typewriting machine, the combination with a platen frame, of a platen, plates comprising journals adapted to be made fast to said frame, and a collating table pivotally mounted in said journals back of said

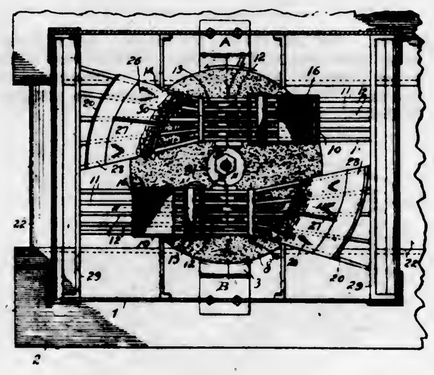
platen and adapted to be swung forwardly in said journals to a substantially horizontal position for the purpose of adjusting work-sheets thereon.

1,388,393. NUT-LOCK. DAVID T. WALLACE, Minneapolis, Minn. Filed Apr. 21, 1920. Serial No. 375,520. 7 Claims. (Cl. 151—21.)



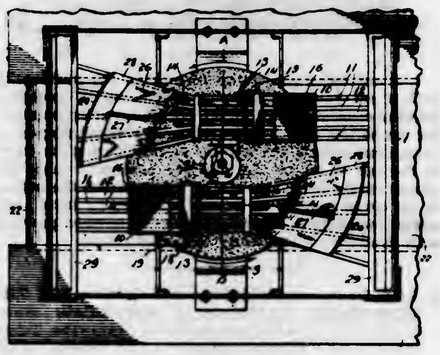
1. In a device of the kind described and in combination, a threaded bolt and a nut coöperating with said bolt, and a washer mounted on said bolt and provided with an extended portion at one side bent back upon itself and of a length to engage with the bolt at the base of the thread therein at a point at one side of the washer, and means on said extending part and integral therewith for engaging said bent over portion on the sides at the rear edges and transmitting thrust directly between the nut and said bent over portions upon movement of the nut, whereby the bent over portion is maintained in engagement with the bolt and rotation of the nut and washer prevented.

1,388,394. PEANUT-BLANCHING MACHINE. ROSCOE P. WITT, Kansas City, Kans., assignor to Ridenour-Baker Grocery Company, Kansas City, Mo., a Corporation of Missouri. Filed July 9, 1920. Serial No. 394,874. 16 Claims. (Cl. 146—14.)



2. In a peanut blanching machine, a member having an abrading surface, means for revolving said member, and means for guiding kernels to be blanched tangentially in contact with said revolving abrading surface, substantially as set forth.

1,388,395. METHOD OF BLANCHING PEANUTS. ROSCOE P. WITT, Kansas City, Kans., assignor to Ridenour-Baker Grocery Company, Kansas City, Mo., a Corporation of Missouri. Filed July 9, 1920. Serial No. 394,875. 9 Claims. (Cl. 146—14.)



1. The method of blanching the kernals of peanuts and the like, consisting in guiding the kernals, while permitting them to rotate, tangentially in contact with a revolving abrading surface, substantially as set forth.

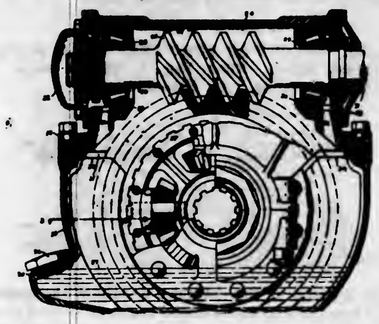
1,388,396. CHEESE-BOX. ERNEST ZEIDLER, Marshfield, Wis. Filed Feb. 7, 1921. Serial No. 443,023. 5 Cims. (Cl. 217—1.)



1. The combination with a cylindrical wall of a receptacle disposed in an annular groove adjacent the periphery of the head of the receptacle, of means for securing said head and wall together and holding the wall in the groove in engagement with the bottom of the groove, said means comprising an annular band having substantially right angularly disposed flanges, one of said flanges being secured to the head, the other flange being secured to the wall, and an annular struckout bead carried by the wall secured flange and having its inner face spaced from the edge of the head.

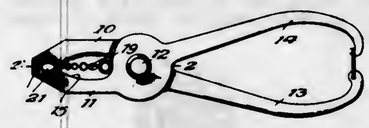
1,388,397. AXLE. THOMAS ZIMMERMAN, Cleveland, Ohio, assignor to The Standard Parts Company, Cleveland, Ohio, a Corporation of Ohio. Filed Oct. 17, 1918. Serial No. 258,593. Renewed Sept. 11, 1919. Serial No. 323,129. 9 Claims. (Cl. 74—36.)

1. In mechanism of the class described, the combination of a housing, a gear therein, a shaft above said gear, a worm on said shaft, bearings for said shaft on opposite sides of said worm, said housing closely surrounding the sides and top of said worm, and walls on the interior of said housing adjacent the sides of said gear forming a channel through which lubricant will be lifted by said gear from the lower part of the housing to one of said



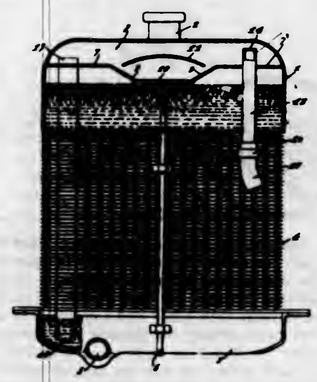
bearings and carried from the latter by said worm to the other of said bearings.

1,388,398. PLIERS. REGINALD GEORGE ADAMS, Kalgoorlie, Western Australia, Australia. Filed Feb. 19, 1920. Serial No. 359,964. 2 Claims. (Cl. 7—8.)



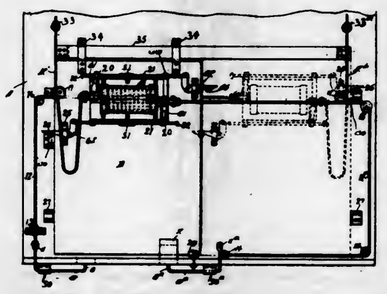
1. In pliers, the combination of a pair of pivoted jaws, each of said jaws having a portion cut away upon one side and face, to reduce the thickness thereof through a certain length of its face edge, the reduced faces of said jaws each having a plurality of coöperating semi-circular recesses therein having insulating stripping beveled knife edges graduated in size as they are positioned from the jaw's pivot, the reduced faces of said jaws having coöperating and abutting wire cutting beveled knife edges thereon.

1,388,399. MOISTENING DEVICE. JOHN A. BELT, Washington, D. C. Filed Apr. 23, 1920. Serial No. 376,061. 1 Claim. (Cl. 257—125.)



A radiator comprising an upper member; partitions in said member and separating the same into upper and lower chambers, the inner ends of the partitions converging downwardly; a screen connecting the said ends of the partitions; a baffle in the upper chamber above the screen and between the said ends of the partitions; an air inlet for the upper chamber; and an air outlet therefor.

1,388,400. AUTOMATIC DOOR-OPERATING MEANS. JOSEPH C. BERGEN, Davenport, Iowa. Filed Sept. 15, 1919. Serial No. 323,932. 7 Claims. (Cl. 268—8.)



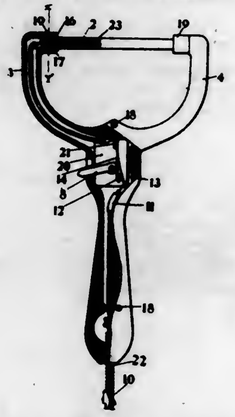
1. In apparatus of the class described the combination with a building structure and a slidable door movable relative thereto, of a spring movable with the door, latches carried by the door for holding the same in either open or closed position, vehicle operated means for placing the spring under compression while the door is held in either open or closed position, and means operated by the compression of the spring to a predetermined extent for unlocking the door, said spring constituting means, when expanded, for projecting the door from one extreme position to the other.

1,388,401. LINE-BUCKLE. THOMAS F. BOLIG, Bellevue, Ohio. Filed Apr. 23, 1919. Serial No. 292,081. 1 Claim. (Cl. 24—176.)



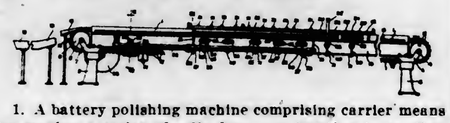
A buckle comprising a base provided at its ends with first and second terminal members disposed at right angles to the base, the terminal members having openings, the axes of which are parallel to the base, the opening in the first member terminating at the base, and the opening in the second member being approximately one-half the height of the opening in the first member and terminating in spaced relation to the base thereby to form a transverse flange, side lugs being formed integrally with the second member and with the base and coöperating with the transverse flange to form a pocket for one end of one of two straps, both of which extend through the opening in the first member, the other of which straps extends through the opening of the second member, the base being provided intermediate its ends with a stud located between the first and second members, the lugs terminating in spaced relation to the first member, to permit the edges of the straps to be engaged by the fingers of an operator, when it is desired to remove the straps from the stud.

1,388,402. APPARATUS FOR SINGEING THE HAIR. ISIDORO CALVETE, London, England. Filed Jan. 19, 1920. Serial No. 352,516. 3 Claims. (Cl. 219—29.)



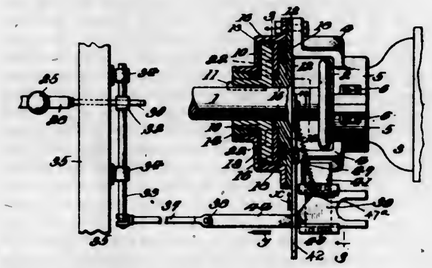
1. An apparatus for singeing the hair comprising an envelop of refractory material inclosing a resistance wire and carried within a holder, substantially as described.

1,388,403. MACHINE FOR POLISHING BATTERY-CELLS. SECONDO L. CASELLA, New York, N. Y., assignor to National Carbon Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 29, 1918. Serial No. 225,386. 10 Claims. (Cl. 51—74.)



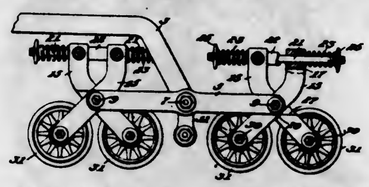
1. A battery polishing machine comprising carrier means for moving a series of cells from one location to another in substantially parallel relation and with their like ends projecting in the same direction substantially at right angles to the path of movement, one kind of polishing means for the bottoms of the battery cells arranged at right angles to the path of movement, polishing means of a different kind for the upper ends of the cells arranged at the other side of the path of movement and means for causing a more prolonged engagement of the polishing means of one kind with the lower end than of the polishing means of the other kind with the upper end of the cell.

1,388,404. REVERSE-STOP FOR VEHICLES. CHARLES P. CIRAC, San Francisco, Calif. Filed Mar. 26, 1918. Serial No. 224,738. 10 Claims. (Cl. 188—30.)



1. A reverse stop for vehicles including a fixed member, a movable member, stop members interposed between said members; and control means controlling said stop members including a slidable bar; a cam plate engaging said bar and means for actuating said cam plate.

1,388,405. TRUCK FOR VEHICLES. STUART H. CLAPP, Pittsfield, Mass. Filed Feb. 1, 1921. Serial No. 441,597. 7 Claims. (Cl. 280—124.)



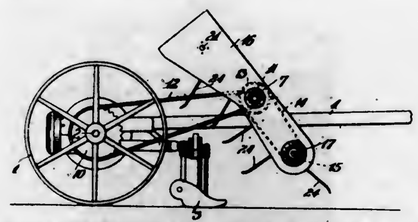
1. In a device of the character described, the combination of a supporting axle, crossed members pivoted to said axle, wheels supported from the lower ends of said members, and resilient means acting upon the upper ends of said members to cushion their movements under varying conditions of load imposed upon said members.

1,388,406. ROCK-DRILL. OMAR E. CLARK, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed July 19, 1918. Serial No. 245,696. 6 Claims. (Cl. 121—7.)



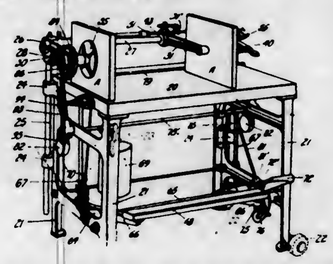
2. In apparatus of the character set forth, the combination with a drill actuating motor, of a drill rotating motor, means for supplying motive fluid to the motors, an actuating device, and means for effecting either the control of the supply of motive fluid to one of said motors independently of the other or to both simultaneously by said actuating device.

1,388,407. VINE-LIFTING ATTACHMENT FOR HARVESTING-MACHINES. JOHN E. CONKLIN, Tuscarora, N. Y. Filed Jan. 8, 1919. Serial No. 270,103. 7 Claims. (Cl. 56—219.)



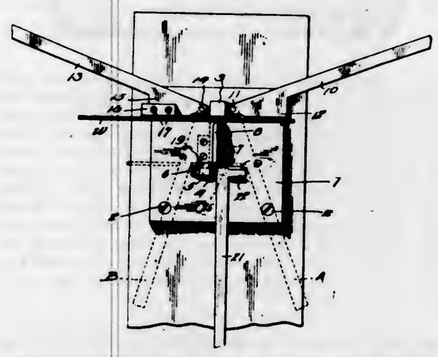
1. The combination with a harvesting machine, of a frame, means for supporting said frame in operative relation to the cutting bar of said machine, a plurality of flexible carriers movable on said frame, a plurality of shafts spaced from each other and connected to said carriers, means on the frame for guiding said shafts, a vine lifting device journaled on each of said shafts, a guide mounted on said frame, an arm on each of said vine lifting devices coöperating with said guide for controlling the operative position of said vine lifting devices, and a spring connecting each of said vine lifting devices with the next adjacent shaft and adapted to maintain said arm in coöperative relation with said guide.

1,388,408. APPARATUS FOR USE IN MAKING BOXES, CRATES, AND THE LIKE. ROBERT GEORGE CROSBIE, Hawthorn, Victoria, Australia, assignor to The Case Making Machine Company Limited, Melbourne, Australia. Filed Feb. 18, 1920. Serial No. 359,616. 28 Claims. (Cl. 144—295.)



1. In an apparatus for use in making boxes, a nailing table having a pair of vertically movable arms on both sides thereof provided with chucks for holding the ends of a box squarely on the table, a stop bar located transversely above the table, means for moving the stop bar forwardly and rearwardly across the table in line with the chucks, and means for raising the chuck carrying arms to adjust the height of the chucks and for simultaneously moving the stop bar into position for correctly determining the position of the ends of a box between the chucks.

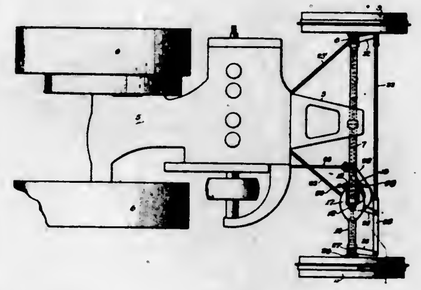
1,388,409. WIRE-BENDING MACHINE. JAY DARLING, Williamsport, Ind. Filed Sept. 9, 1920. Serial No. 409,223. 4 Claims. (Cl. 153—39.)



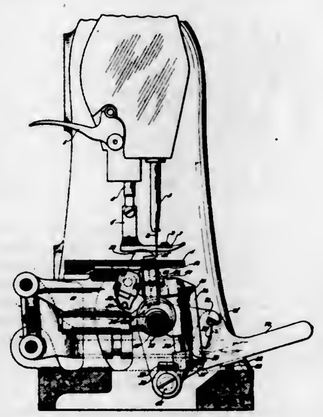
2. In a device of the class described the combination of a base-plate, an upstanding lug, a longitudinal upstanding flange spaced from said lug, a bending anvil spaced from the other end of the longitudinal upstanding flange, said bending anvil having a horizontally projecting extension, and a plurality of spaced bending levers pivotally mounted and suitably shaped and positioned to operate with the above described anvil and flange to bend a wire fastener to the shape shown.

1,388,410. TRACTOR. DAVID P. DAVIES, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation. Filed Aug. 20, 1920. Serial No. 404,803. 7 Claims. (Cl. 280—96.1.)

1. The combination, with a tractor, of a front axle, a knuckle pivotally secured thereto and having forked members, an extension axle secured to said front axle, means for adjusting said extension axle into an angle in relation to said front axle, forked members at the outer end of said extension axle, a wheel having a stud axle pivotally mounted between said forked members, steering means, and a link connected to said extension axle and said knuckle whereby said wheel is steered through the action of said steering means.



1,388,411. TRIMMING MECHANISM FOR SEWING-MACHINES. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 10, 1917. Serial No. 190,451. 33 Claims. (Cl. 112—122.)

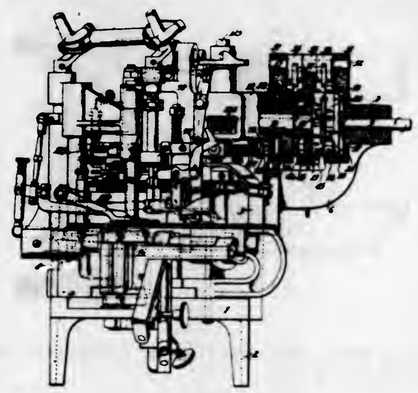


1. In a sewing machine, in combination with work-feeding mechanism, trimming mechanism comprising a pair of actuated severing members, an eccentric, and means operated by said eccentric for both relatively and bodily moving said members.

1,388,412. CLUTCH MECHANISM. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Original application filed Dec. 31, 1915. Serial No. 69,644. Divided and this application filed Mar. 11, 1918. Serial No. 221,595. Renewed Jan. 7, 1921. Serial No. 435,762. 17 Claims. (Cl. 192—116.)

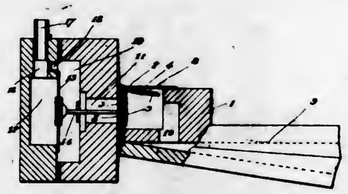
1. In a clutch device, in combination, a driving member and a braking member having adjacent portions formed with annular friction faces, a driven member formed with seats opposed respectively to said friction faces, friction contact elements movable relatively to each other and secured to said seats and adapted to effect

frictional engagement with the friction faces of the driving and braking members, and means acting reciprocally



upon said elements for effecting their alternate engagement with the respective friction faces.

1,388,413. PNEUMATIC ACTION. EDGAR HENRY DODDS, Crouch Hill, London, England. Filed Oct. 24, 1919. Serial No. 333,056. 3 Claims. (Cl. 84—53.)



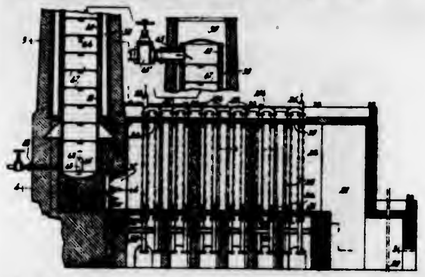
1. A pneumatic valve action comprising in combination a valve casing, including two open sides closed by a detachable L-shaped cover of metal, a single double-acting valve pivotally mounted to the angle of said cover, said valve being formed with two sides forming valve heads extending approximately at right angles to one another, and air ports or apertures in the walls of said cover with which said valve heads coöperate.

1,388,414. TRAWLING AND LIKE FISHING APPARATUS. CORNELIS PIETER DROS, Amsterdam, Netherlands. Filed Mar. 29, 1919. Serial No. 286,154. 14 Claims. (Cl. 43—4.)



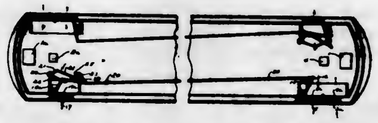
2. In a fishing apparatus, the combination of a fishing net having a catching compartment; a conduit connected at one end to said compartment; a siphon pipe connected to the other end of the conduit; a tank connected to the discharge end of the siphon pipe and having an outlet; a valve for closing said outlet; a separate tank located beneath said outlet and provided with a grating to separate the fish and water delivered immediately thereon by said outlet; and a pump to regulate the siphon action and connected to draw water from either of said tanks.

1,388,415. APPARATUS FOR TREATING OIL. CHARLES EKSTRAND, Brooklyn, N. Y.; Mabel Ekstrand executrix of said Charles Ekstrand, deceased. Filed Nov. 21, 1917. Serial No. 203,085. 8 Claims. (Cl. 196—26.)



1. An oil-treating apparatus comprising a retort, means for forcing oil therethrough under pressure, an expansion and mixing chamber, a baffle plate therein, two contracted nozzles of different sizes having valves for admitting the vapors from the retort through either nozzle into said chamber, said nozzles arranged to project said vapors against said plate.

1,388,416. DOUBLE-ENDED RAILWAY-CAR. THOMAS ELLIOTT, Cincinnati, Ohio, assignor to The Cincinnati Car Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 21, 1921. Serial No. 454,030. 17 Claims. (Cl. 105—341.)



1. A double-ended one-man car having front and rear doorways at each side thereof, and sign mechanism for each of said doorways, the signs on one side adapted to simultaneously exhibit an entrance legend at one doorway and an exit legend at the other, and the signs on the other side adapted to simultaneously exhibit an entrance legend at one doorway and an exit legend at the other, so that such car may be used on the "pay as you enter" system when the entrance legend is exhibited at the front doorway and the exit legend at the rear doorway, or on the "pay as you leave" system when the entrance legend is at the rear doorway and the exit legend at the front doorway.

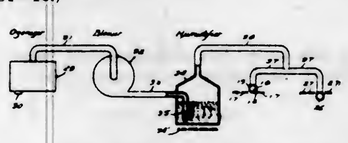
1,388,417. SAFETY LOCKING DEVICE FOR MOTOR-VEHICLES. JAMES HENRY FARMER, Hackney, London, England. Filed May 10, 1920. Serial No. 380,184. 1 Claim. (Cl. 70—131.)



A safety locking device for automobiles comprising a cover plate adapted to fit over the change speed gate, so as to cover all openings except that for the neutral position of the change speed lever, ribs on the under side of said plate engaging in said openings, a supporting plate secured to the under side of said ribs and shaped to pass through said openings, a lock carried by said cover plate, a crank operated by said lock, a transversely sliding bolt mounted in said cover plate, a slot in said bolt, a crank pin on said crank engaging in said slot and adapted to slide said bolt to make it engage with the gate, inclined slots on said transverse bolt, a pair of pins mounted in said supporting plate at right angles to said transverse bolt, a pair of sliding plates mounted on said pins, springs on said pins tending to force said plates apart, projections on said plates engaging in the inclined slots in the transverse bolt whereby when said bolt is moved said plates are forced apart to engage under adjacent portions of the gate

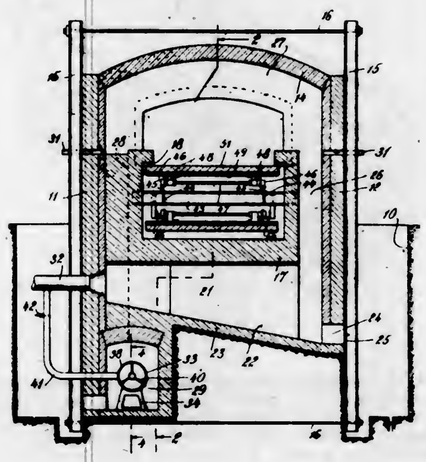
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1,388,418. PROCESS OF AND APPARATUS FOR PREVENTING OFFSETTING, &c. RICHARD L. FEARN, Jr., Washington, D. C., assignor to National Electrical Supply Company, Washington, D. C., a Corporation of Virginia. Filed Apr. 5, 1920. Serial No. 371,402. 8 Claims. (Cl. 34—18.)



4. The herein described process for preventing off-setting, which consists in heating the paper, subjecting it to the action of ozonized air, and reheating the paper.

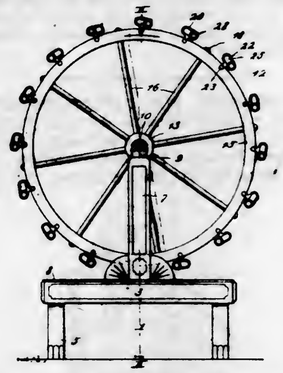
1,388,419. CONTINUOUS-HEATING FURNACE. WILLIAM HENRY FITCH, Allentown, Pa. Filed Jan. 27, 1920. Serial No. 354,415. 16 Claims. (Cl. 263—28.)



1. In a furnace, the combination of a heating chamber, a combustion chamber adjacent thereto, a flue at one side of the furnace for leading gas from the combustion chamber to the heating chamber, and a flue on the opposite side of the furnace for leading gas out of the heating chamber in a direction of flow opposite to the direction of flow in the first mentioned flue, whereby the hot gases pass completely around the heating chamber.

1,388,420. AMUSEMENT DEVICE. JOHN FLINNER, Leavenworth, Kans. Filed Aug. 5, 1918. Serial No. 248,310. 3 Claims. (Cl. 172—36.)

2. In a device of the character described, a vertical wheel, a suitable axis for said wheel, spaced elements on the wheel arranged at an angle to the periphery thereof, weights operably-mounted in said elements to move outwardly on the descending side of the wheel and inwardly



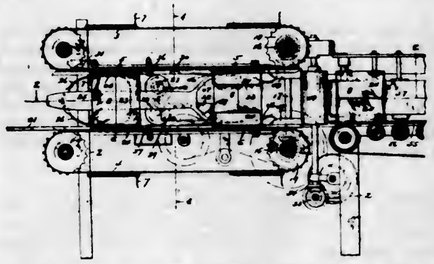
on the ascending side of said wheel, and means to rotate the wheel.

1,388,421. THROAT AND MOUTH GAG. LYMAN ROBERT FORGRAVE, St. Joseph, Mo. Filed Apr. 2, 1921. Serial No. 458,149. 6 Claims. (Cl. 128—12.)



1. A throat and mouth gag comprising a shank having a slideway provided with a ratchet surface, a latch slide plate operable in said slideway, a tongue depressor having a slide plate slidable in said slideway, said slide plates having separable engaging elements held together by the said slideway, when said slide plates are both in the slideway, a latch carried by said latch slide plate to coöperate with said ratchet surface and a loop carried by the shank and having provisions to lie under the upper jaw of the patient.

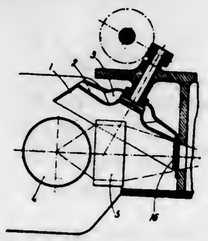
1,388,422. APPARATUS FOR SEALING CONTAINERS. STANTON W. FORSMAN, Los Angeles, Calif. Filed Oct. 30, 1918. Serial No. 260,247. 17 Claims. (Cl. 93—7.)



1. In an apparatus for sealing containers having sealing flaps, means for applying adhesive to said flaps com-

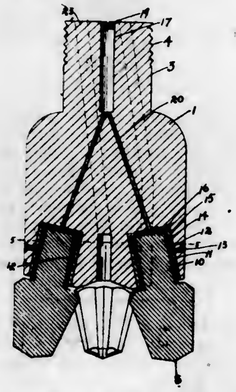
prising a trough, a roller rotatable within and extending below said trough, a second roller adapted to receive adhesive from said first roller, means for rotating said rollers, a conveyer for the containers, and means for holding the flaps on opposite sides of the containers extended so as to engage said rollers.

1,388,423. SHUTTER FOR CINEMATOGRAPHIC APPARATUS. PIERRE SYLVAIN GAUDIAT, Paris, France, assignor to Etablissements Continsouza (Societe Anonyme), Paris, France, a French Corporation. Filed Apr. 7, 1920. Serial No. 371,950. 2 Claims. (Cl. 88—19.3.)



1. In a cooling arrangement for the lamps of projecting apparatus, the combination with a rotatable, truncated, conical shutter, of a fan associated with said shutter, said fan being constructed to direct the cooling air through its whole periphery, and means for rotating said shutter and fan simultaneously and also causing the feeding of the film past said shutter during the operation of the apparatus.

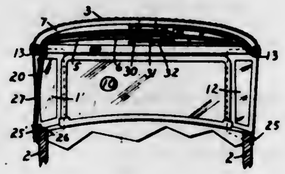
1,388,424. ROTARY BIT. EDWARD A. GEORGE, Shreveport, La. Filed June 27, 1919. Serial No. 307,098. 8 Claims. (Cl. 255—71.)



1. In a rotary boring drill, a head, approximately upright cutters rotatable in sockets in the forward face of said head, and having a tapered forward cutting face and laterally tapered cutting edges so arranged that one side thereof is parallel with the sides of the bore being drilled, the other face being adapted to cut the bottom of the hole and each cutter positioned to bear upon the bottom of the hole.

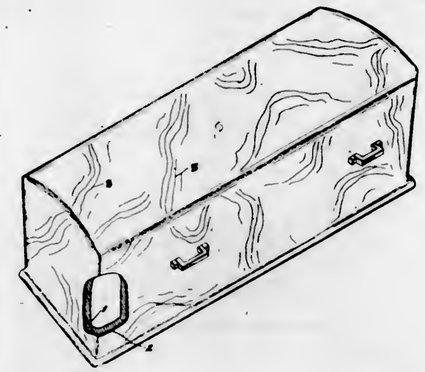
1,388,425. SIDE CURTAIN FOR AUTOMOBILES. LEO GILLIG and CHESTER GILLIG, San Francisco, Calif. Filed May 13, 1919. Serial No. 296,794. 8 Claims. (Cl. 296—140.)

6. Side curtains for automobiles comprising an automobile carrying a top, a bar carried thereby, a pair of flexible single unit curtains hinged thereto one at the edge of the other, means to hold the curtains against the



body at their lower edges when down, and means to hold the curtains flexed under the top when raised.

1,388,426. SURFACE-DECORATING. EDMUND J. GREIVE, Los Angeles, Calif. Filed Aug. 17, 1920. Serial No. 404,229. 4 Claims. (Cl. 91—68.)



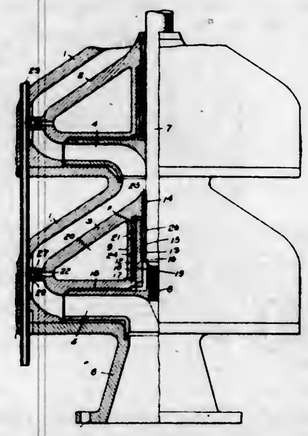
1. The method of decorating surfaces which consists in applying thereto an elastic coating, allowing said coating to dry, applying a lacquer coating containing a metallic pigment, applying a color coating, and removing the color coating from portions of the surface to allow the metal coating to shine through.

4. A casket having the outer surface composed of an elastic coating with ridges thereon, a metallic pigment coating covering said elastic coating, and a colored japan coating covering the metallic pigment coating except on said ridges.

1,388,427. PUMP MECHANISM. SAMUEL N. HALL, Los Angeles, Calif., assignor to Mahlon E. Layne, Los Angeles, Calif. Filed Sept. 8, 1920. Serial No. 408,948. 9 Claims. (Cl. 253—199.)

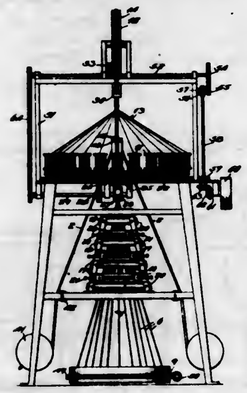
1. In combination in a centrifugal pump, an inner pump casing member provided with a bearing recess, an impeller or runner opposing the end of such member and provided with a bearing hub extending into said recess, a sleeve member secured to the other end of the casing

member and projecting inside the bearing hub, a drive shaft extending through said sleeve and connected to drive the



runner, and a relief passage leading from the space between said sleeve and the bearing hub.

1,388,428. MACHINE FOR MAKING PACKING. LAWRENCE W. HESSING, Maywood, Ill., assignor of one-half to John M. Rhodes, Chicago, Ill. Filed Aug. 30, 1920. Serial No. 407,011. 11 Claims. (Cl. 28—27.)



1. In a machine of the kind described and in combination, means for supplying strands of metallic packing material to the machine, means for initially guiding said strands into a compact body, means for forming and sizing the body, means for applying a backing to said body, and means for braiding a covering about the body and backing.

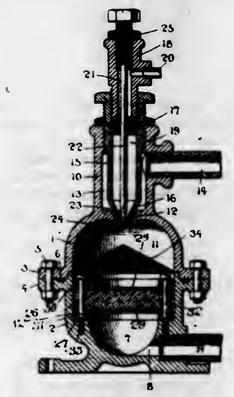
1,388,429. METHOD OF PACKAGING DIGITALIS. FREDERICK W. HEYL, Kalamazoo, Mich., assignor to The Upjohn Company, Kalamazoo, Mich., a Corporation of Michigan. Filed June 7, 1920. Serial No. 387,078. 2 Claims. (Cl. 99—8.)

1. The method of preserving digitalis consisting of comminuting desiccated digitalis leaves sufficiently to permit of compressing into porous tablets and compressing into porous tablets, placing the tablets in a desiccated condition in superimposed relation in a container containing at the bottom an alkaline dehydrating material



separated from the tablets by a layer of cotton and sealing.

1,388,430. MEANS FOR CONVERTING LIQUID FUEL INTO A COMPRESSED COMBUSTIBLE MIXTURE. PHILIP D. HIBNER, Seattle, Wash. Filed Jan. 27, 1919. Serial No. 273,365. 3 Claims. (Cl. 261—94.)

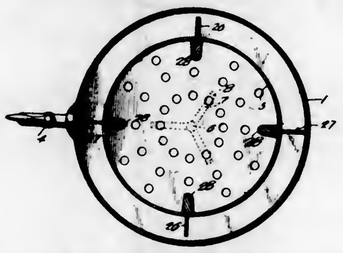


3. In a device of the character described, a mixing chamber, a partition therein composed of a dense compressible porous body of considerable thickness having a non-absorbent framework, means for forcing air and liquid hydrocarbon into the mixing chamber against and through the said partition to form a compressed combustible mixture, and means for placing the porous body under greater or lesser compression and thereby exert greater or lesser resistance to the passage of the air and liquid fuel therethrough.

1,388,431. DISH-WASHER. ALFRED H. HOCK, Bluefield, W. Va. Filed Aug. 15, 1919. Serial No. 317,756. 1 Claim. (Cl. 141—9.)

A device of the character described, comprising a stationary cylindrical outer container, a rotatably mounted inner container having its bottom spaced appreciably above the bottom of the outer container, the inner container being perforated throughout, a plurality of vertical strips extending inwardly from the inner periphery of the outer container, a plurality of vertical ribs ex-

tending inwardly from the inner periphery of the inner container, and a plurality of outwardly extending strips



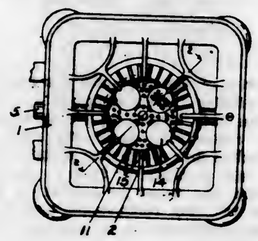
carried by the inner container, some of said strips having their inner edges embedded within certain of said ribs.

1,388,432. AUTOMOBILE-BUMPER. THOMAS A. HOOVER, Fresno, Calif., assignor to American Chain Company, Inc., a Corporation of New York. Filed Feb. 24, 1920, Serial No. 361,066. Renewed May 10, 1921. Serial No. 468,202. 3 Claims. (Cl. 293—55.)



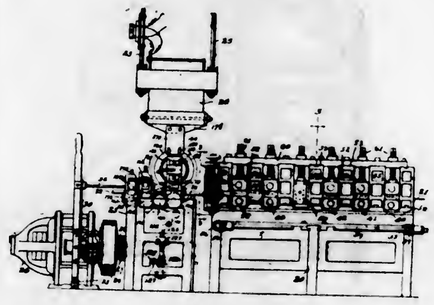
2. In a bumper of the double spring bar type, wherein the ends are brought together near the median line of the bumper at the front thereof, a coupling for the meeting ends of the bar comprising upper and lower plates, clamping bolts for the plates extending vertically between the walls of the bumper, and a flange on one longitudinal edge of one of the plates overlying the meeting ends of the bumper bar.

1,388,433. GAS-BURNER. ALFRED H. HUMPHREY and GEORGE A. HUMPHREY, New York, N. Y. Filed Aug. 3, 1920. Serial No. 400,895. 10 Claims. (Cl. 158—99.)



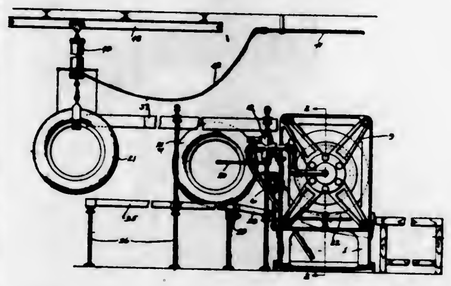
1. The combination with a grid, of a gas burner having a plurality of upwardly projecting burner tips, a pan-shaped deflector member disposed with its upper edge adjacent the under side of said grid and having openings in its bottom through which said burner tips project, there being spaces around said tips for the passage of secondary air thereto, said deflector member being of earthy material and having integral radially disposed internal fins and an integral baffle plate supporting posts disposed about the burner tip openings thereof, baffle plates disposed on said posts above said burner tips, and an outer metal shell for said deflector member.

1,388,434. METHOD AND APPARATUS FOR BUTT-WELDING THIN-GAGE TUBING. GUSTAVE V. JOHNSTON, Chicago, Ill., assignor to American Metal Molding Company. Filed June 9, 1919. Serial No. 302,932. 31 Claims. (Cl. 219—6.)



7. A process of making electrically butt-welded thin-walled steel tubing wherein the abutting walls are united by a recurrent weld, which consists in pressing the abutting walls into welding contact, causing an alternating welding current to flow across the seam, and advancing the tube at a rate sufficient to produce a substantially continuous weld exhibiting a recurrent welding effect synchronizing with the alternations of the welding current.

1,388,435. METHOD OF AND APPARATUS FOR REMOVING PNEUMATIC TIRES FROM CORES. KARL B. KILBORN, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 24, 1921. Serial No. 455,217. 12 Claims. (Cl. 18—2.)

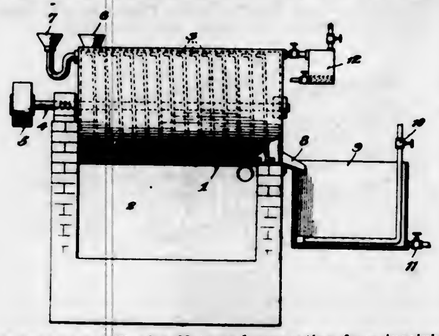


1. A tire stripper comprising means for supporting a tire and its core and means for forcing a fluid between the tire and the core.

1,388,436. MANUFACTURE OF ALUM CAKE. RICHARD MOLDENKE, Watchung, N. J. Filed Oct. 17, 1919. Serial No. 331,434. 3 Claims. (Cl. 23—13.)

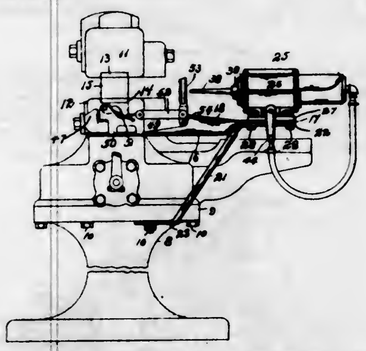
1. The process of making aluminum sulfate which comprises mixing a fine powdered aluminous mineral with about the amount of strong sulfuric acid corresponding to the available alumina present, vigorously agitating the mixture at a high temperature in an atmosphere of acid vapors to form aluminum sulfate while preventing its setting in cake form and to cause it to take a granular form, the agitation being continued to prevent its setting and to retain it in a granular state until reaction is

complete and thereafter mixing the granular reaction product with about the amount of water necessary to



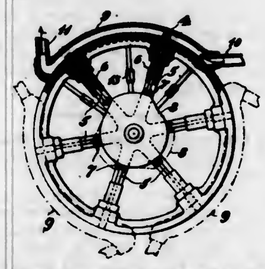
make a crystallized sulfate and separating from insoluble materials while the mixture is hot.

1,388,437. MEANS FOR OPENING THE BORES OF ROCK-DRILLING STEELS. GUSTAVE M. NELL, Denver, Colo., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo., a Corporation of Delaware. Filed June 14, 1919. Serial No. 304,296. 7 Claims. (Cl. 76—5.)



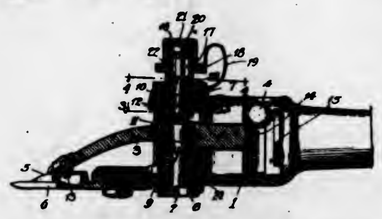
1. In apparatus of the character set forth, the combination with a drill sharpening machine having relatively movable drill steel clamping jaws, of a bracket arm secured at one point to the machine, a brace for the arm connected to another portion of the machine, and bore opening mechanism mounted on the bracket in position to enter the bore of a drill steel held by the jaws.

1,388,438. ROTARY MOTOR. GEORG NÖLLMANN, Buenos Aires, Argentina. Filed May 18, 1920. Serial No. 382,374. 1 Claim. (Cl. 121—85.)



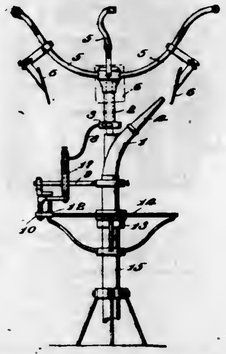
A rotary motor comprising a fly wheel having spokes, flanges on each side of the wheel rim forming an annular chamber, said rim projecting laterally at one side of the spokes and having pockets formed therein, blades in said pockets, stems on the blades projecting from said pockets centrally of the channel and at one side of the spokes, springs on the stems normally retracting the blades, a stationary cam at the center of the wheel over which the ends of the stems travel, a detachable steam channel extending over a portion of the rim and having sides fitting over the flanges of the rim, a stationary hub, and radially adjustable rods connecting the channel to the hub.

1,388,439. ANIMAL-SHEARS. CHESTER M. PALMER, Aurora, Ill. Filed Sept. 3, 1918. Serial No. 252,385. 4 Claims. (Cl. 30—1.)



1. A shearing machine comprising a casing, a fixed comb or cutter, a cutter movable on said fixed cutter, an oscillatory cutter lever, a pivot shaft having rotative bearing in the upper and lower walls of said casing and non-rotatively engaging between its ends said lever, one of said pivot shaft bearings formed relatively larger in diameter than the corresponding part of said shaft, whereby a comparatively increased tension may be provided automatically by the operation of the machine, an adjustable tension screw having threaded engagement with said casing in axial alinement with said pivot shaft, a pivot pin interposed between said tension screw and pivot shaft for applying tensions to the lever through said shaft, means whereby the lever and the cutter carried thereby may have a slight rocking movement with respect to the shaft to permit uniform pressure of the cutter on the fixed comb, means whereby a fixed angle between said pivot shaft and lever is maintained, and means for oscillating said cutter lever.

1,388,440. SPRINKLING-MACHINE. THOR PAULSEN PRESTGARD, Hedalen, near Sjoa, Norway. Filed Jan. 2, 1920. Serial No. 349,045. 2 Claims. (Cl. 299—68.)



1. A sprinkling machine including in combination, a rotatable jet piece, a rotatable support including a plurality of radiating arms, vanes connected on the arms and arranged in the path of the water issuing from the jet piece for breaking the water into a spray, and a pawl and ratchet mechanism mounted about the axis of the jet

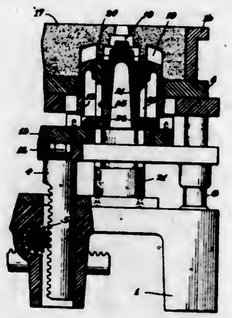
piece and operably connected with the support so as to be actuated thereby to consequently impart a step-wise rotative movement to the jet piece.

1,388,441. MULTIPLE ANTENNA FOR ELECTRICAL WAVE TRANSMISSION. MICHAEL I. PUPIN, Norfolk, Conn., and EDWIN H. ARMSTRONG, Yonkers, N. Y. Filed Oct. 1, 1915, Serial No. 53,494. Renewed Jan. 14, 1921. Serial No. 437,358. 1 Claim. (Cl. 250—33.)



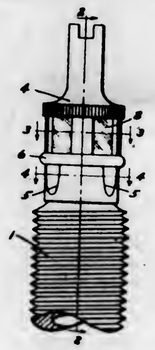
A wireless receiving antenna of such high resistance as effectively to screen the system against disturbing electromagnetic waves impressed upon the conductor, in inductive relation with a low resistance and low inductance antenna which serves as a screen protecting the high resistance antenna against electromagnetic pulses of short duration.

1,388,442. MOLD-FORMING APPARATUS. HERMAN RAU, Brooklyn, N. Y., assignor to Doehler Die Casting Company, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 19, 1919. Serial No. 339,092. 2 Claims. (Cl. 22—54.)



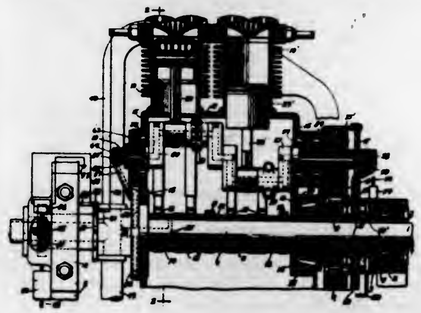
1. In mold making apparatus, the combination of a base, a hollow vertical pattern member, having vertical slots through its side walls, extending upwardly from said base, fixed vertical supports extending upwardly from said base, a plate slidably mounted on said supports, having an opening therethrough, through which said hollow pattern member extends, a mold-supporting plate, mounted on said supports, a pattern member within said hollow pattern member, having lugs extending outwardly through said vertical slots in said hollow pattern member and secured to said first named plate, said mold-supporting plate having an opening therein through which said pattern members are adapted to extend, and means for raising and lowering said first plate.

1,388,443. LEAK-INDICATOR FOR TIRE-VALVES. RALPH E. STEWART, Los Angeles, and HENRY H. HAMMERSTROM, Sierra Madre, Calif. Filed Aug. 17, 1920. Serial No. 404,244. 5 Claims. (Cl. 116—34.)



1. The combination with a valve stem, of a cap for the same having a slot therein, a transparent sleeve received within said cap beneath said slot, and an expandible diaphragm received in said cap and extending across the same, said diaphragm retaining said sleeve in position and adapted to be distorted by escaping pressure.

1,388,444. INTERNAL-COMBUSTION ENGINE. FREDERICK R. SUNDERMAN and WALTER H. SHIMPF, Detroit, Mich., assignors to Sunderman Corporation, Newburgh, N. Y., a Corporation of New York. Filed Apr. 12, 1918. Serial No. 228,125. 18 Claims. (Cl. 123—44.)

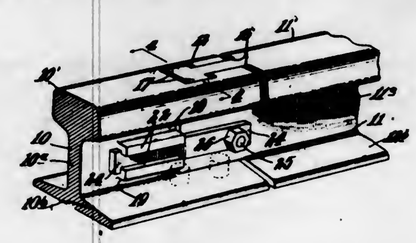


1. In a rotary internal combustion engine, the combination of a stationary gear, a frame mounted to revolve about the axis of said gear, two crank shafts mounted in said frame, a pinion on each crank shaft geared to said gear and one-half the diameter thereof, four cylinders having pistons operating on each of said crank shafts and means whereby said cylinders are fired so that an impulse is delivered at each 45° about the axis of said stationary gear to rotate said frame.

1,388,445. RAIL-JOINT. JOSEPH VASS, Sharpsville, Pa. Filed Feb. 18, 1921. Serial No. 445,940. 5 Claims. (Cl. 238—235.)

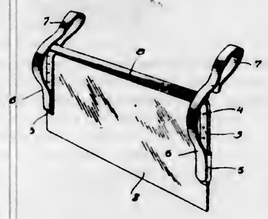
1. In a rail joint, a pair of rail ends one of which has the tread portion presenting a vertically extending T-slot, the other of said rail ends having the tread thereof cut out on opposite sides flush with the web at a distance from the end thereof, the extreme end of said tread being of diminished width to form a pair of projections presenting a T-head engaging in said slot, and means locking

said rail ends against relative vertical displacement, said means comprising a pair of bars detachably secured to the



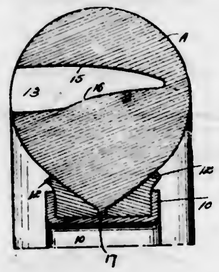
web of one rail end and retainer guides on the other rail end in which said bars engage slidably.

1,388,446. GLARE-SHIELD ATTACHMENT FOR AUTOMOBILE-WINDSHIELDS. ROY H. WOODMANSEE, Denver, Colo. Filed Aug. 16, 1920. Serial No. 403,678. 1 Claim. (Cl. 296—97.)



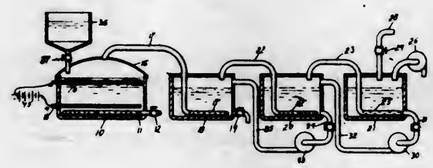
As a new article of manufacture, a glare shield for use on the wind shield of an automobile, comprising a translucent plate, a metallic binder straddling and secured on one longitudinal edge and the upper portions of the end edges of the plate, resilient clips clasping the end portions of the binder and plate, spring portions bowed away from the binder and secured to and extending upwardly from said clips and merged at their upper ends into resilient hooks, and a strip extending between and connected to the upper portions of the said bowed spring portions.

1,388,447. TIRE-CORE. WALTER A. BLACK, Perry, Iowa. Filed Oct. 23, 1920. Serial No. 418,872. 1 Claim. (Cl. 152—5.)



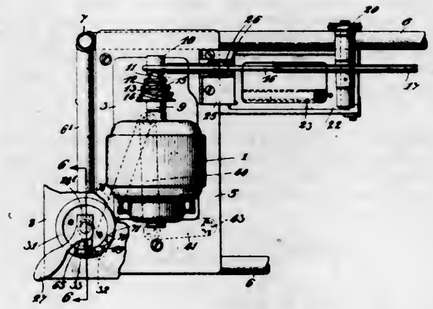
In a device of the class described adapted to be used in connection with a tire casing comprising an annular resilient core member, having apertures in its sides, the apertures on one side being staggered with relation to the apertures on the other side, said apertures being narrower circumferentially of the core at their inner ends than at their outer ends and the sides of said apertures being tapered radially inwardly, the walls of the apertures at the inner and outer sides thereof, radially of the device being arched, whereby in all positions of the core with relation to the ground a continuous cushion of resilient material radially of the core is provided for preventing vibration of load and road shocks and a flange formed on said core member adapted to be received between the edges of the casing for preventing any possible twisting of the core.

1,388,448. ELECTRIC PRODUCTION OF AMMONIA. HENRY BLUMENBERG, Jr., Oro Grande, Calif. Filed May 12, 1919. Serial No. 296,556. 11 Claims. (Cl. 204—9.)



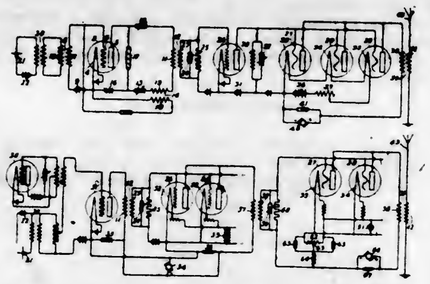
1. A process of making ammonia, comprising subjecting an aqueous solution of a metal nitrate of the alkali metal and alkaline earth metal groups to electrolysis, whereby the nitrate is first reduced to nitrite, and the nitrite is further reduced by the hydrogen generated to form ammonia and the hydroxid of the metal.

1,388,449. STARTING AND SPEED-CONTROLLING DEVICE. ERNEST J. BRASSEUR, Chicago, Ill., assignor to A. B. Dick Company, Chicago, Ill., a Corporation of Illinois. Filed June 12, 1920. Serial No. 388,484. 10 Claims. (Cl. 172—230.)



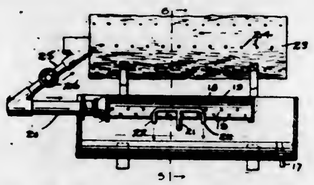
1. In a device of the character described, the combination of a motor, a motor shaft having stepped pulleys thereon with an inclined groove formed across the same, a driven pulley, a belt extending around said shaft and driven pulley, and means for shifting said motor axially in one direction or the other while it is running, to shift said belt from one of said stepped pulleys to another.

1,388,450. TRANSMISSION OF INTELLIGENCE. EDWIN H. COLPITTS, East Orange, and HAROLD DE FOREST ARNOLD, Maplewood, N. J., assignors, by mesne assignments, to Western Electric Company, Incorporated, a Corporation of New York. Filed Sept. 3, 1915, Serial No. 48,789. Renewed Jan. 13, 1921. Serial No. 437,125. 28 Claims. (Cl. 250—6.)



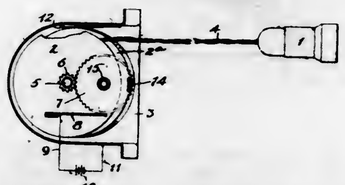
1. The method of signaling which consists in modulating carrier waves of insufficient power for transmission to a distant station and in increasing the power of said modulated waves before they are transmitted.

1,388,451. OIL-BURNER. EMANUEL W. DUNN, Los Angeles, Calif. Filed May 28, 1917, Serial No. 171,345. Renewed Jan. 20, 1920. Serial No. 352,915. 8 Claims. (Cl. 158—92.)



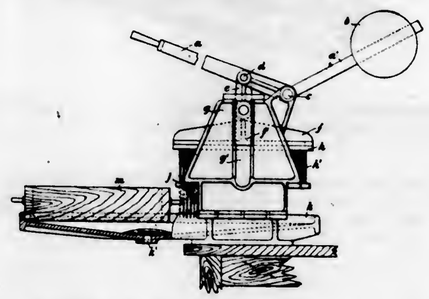
1. An oil burner comprising a base provided with a combined vaporizing and combustion chamber, a perforated blast chamber above said combustion chamber, means for delivering combustible material into the combined vaporizing and combustion chamber close to the wall of the blast chamber, whereby the said combustible material is instantly gasified as it is delivered, and means for delivering air into the blast chamber, the perforations in the blast chamber being oppositioned to discharge air into the zone of gases within the combined vaporizing and combustion chamber.

1,388,452. AUTOMATIC ELECTRIC SWITCH FOR CABLE-CARRYING DRUMS. CHARLES F. CUNO, Meriden, Conn. Filed May 8, 1920. Serial No. 379,750. 5 Claims. (Cl. 200—153.)



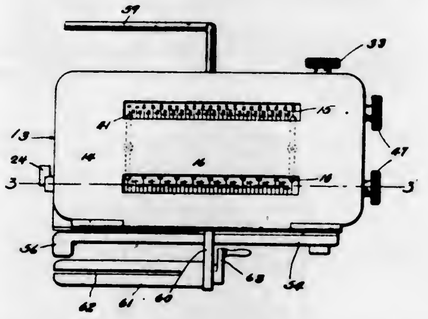
5. An automatic switch for a drum wound current consuming device, including a drum, a current carrying cord wound thereon, a movable member geared to the drum to be rotated thereby and having a conducting portion and a non-conducting portion, and a contact brush supported independently of the drum and arranged to contact with both the conducting and the non-conducting portions of said movable member depending upon the position of the latter.

1,388,453. **TREATMENT OF RAW RUBBER WHEN FRESHLY COAGULATED FROM THE LATEX.** SAMUEL CLELAND DAVIDSON, Belfast, Ireland. Filed Feb. 13, 1920. Serial No. 358,441. 7 Claims. (Cl. 18—50.)



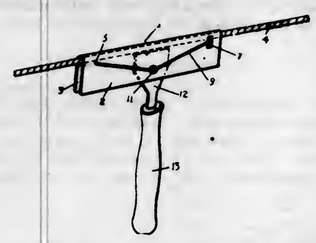
3. Apparatus for eliminating air, gas, and water contained in raw rubber which has been freshly coagulated from the latex, comprising the combination of a base plate, a pin plate, a number of pins fixed in the pin plate, a stripper plate having holes therein corresponding to the pins of the pin plate, a receiver for the rubber to be treated, a support on the tank for the receiver to one side of the pin plate, means for guiding the receiver under the carrier and pin plate and means for pressing the pin plate and receiver together and apart to force the pins through the rubber and for again withdrawing the pin plate.

1,388,454. FABRIC-MEASURING AND COST-COMPUTING MACHINE. LEO EHRLICH, St. Louis, Mo., assignor of one-half to Arthur S. Partridge, St. Louis, Mo., and one-half to Albert Blair, St. Louis, Mo. Filed Feb. 16, 1918. Serial No. 217,502. 20 Claims. (Cl. 33—133.)



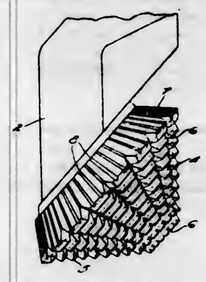
1. In a machine of the class described, an endless flexible member mounted for operation, means adapted to be actuated by the goods passing through the machine for imparting movement to said endless flexible member, a sales slip support arranged adjacent to a portion of said endless flexible member, and means carried by said flexible member and adapted to be manually actuated to mark a sales slip positioned on said support.

1,388,455. CLOTHESLINE-PULLING CLUTCH. SYDNEY JAMES FLEMING, Vancouver, British Columbia, Canada. Filed Oct. 19, 1920. Serial No. 417,906. 5 Claims. (Cl. 24—134.)



2. A clothes line pulling clutch comprising a substantially U-shaped member adapted to be placed on the line in an inverted position and provided at its opposite ends and intermediate its length with oppositely disposed apertures the apertures at one end being positioned just below the line and those at the opposite end being slotted with the upper edge above the under side of the line, the intermediate apertures being positioned adjacent its lower edge, a plate disposed between the sides of the U-shaped member the upper end of which lies close to the line having an opening registering with the intermediate apertures, said plate being provided with a gripping handle, and a spring wire member doubled over intermediate its length forming a pin adapted to pass through the plate opening and the intermediate apertures to pivotally connect said plate and said member, the ends of the wire being bent and passed through the said end apertures and slots.

1,388,456. ROLLER BORING-DRILL. HAROLD W. FLETCHER, Houston, Tex. Filed Jan. 29, 1921. Serial No. 441,062. 6 Claims. (Cl. 255—71.)



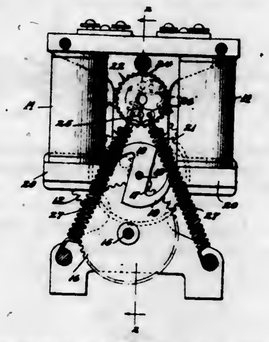
1. In a roller earth boring drill, the combination of a head, frusto-conical cutters rotatable on the forward end thereof, mounted in offset relation to the axis of rotation of the head and teeth on said cutters formed co-axially on the periphery thereof and presenting a cutting edge forwardly in the direction of sliding of said cutters.

1,388,457. FOLDING OR JOINTING AEROPLANE-WING FOR TRANSPORTATION OR STORAGE. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed Feb. 17, 1921. Serial No. 445,735. 3 Claims. (Cl. 244—12.)



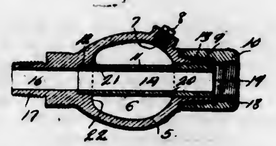
1. An aeroplane wing comprising members hingedly connected together along a line running in the direction of the major dimension of the wing to enable said wing to be folded.

1,388,458. SECONDARY ELECTRIC CLOCK. FREDERICK FRICK, Waynesboro, Pa. Filed Sept. 29, 1920. Serial No. 413,502. 8 Claims. (Cl. 58—26.)



1. In a secondary clock a device for intermittently rotating a shaft comprising in combination means for rotating said shaft through an angle less than 180°, and means for completing the rotation of said shaft through 180°, said last mentioned means including a member rotatable about an axis displaced from the axis of said rotatable shaft and operatively connected to said shaft and a resilient element connected to said member.

1,388,459. PNEUMATIC-HAMMER-OILING DEVICE. THOMAS J. GREENE and PETER W. BURKE, Bremerton, Wash. Filed Feb. 18, 1920. Serial No. 359,594. 1 Claim. (Cl. 184—55.)



An oiling device for pneumatic hammers comprising a body having an oil receptacle therein, said body member having its ends reduced and provided with axially alined air passages, one of said reduced portions of the body member being threaded, a tubular member extending through the oil receptacle of the body member and having one of its ends reduced and disposed within a counterbore adjacent one end of the body member and with the passage of the tube in axial alinement with the passage of the reduced portion of the body member, the other enlarged end of the tubular member being disposed in the passage of the threaded reduced end of the body member, a screen engaging the end of the reduced threaded end of the body member and the enlarged end of the tubular member, a shouldered member threaded on the reduced threaded end of the body member and forming means for maintaining the tubular member and the screen in position, said screen preventing displacement of the tubular member and passages of communication between the air passage of the tube and the oil receptacle whereby air will enter the oil receptacle and force air into the air passage of the tube.

1,388,460. CLOSED HIGH-TEMPERATURE GAS-BURNER. DAVID GUELBAUM, Syracuse, N. Y. Filed Jan. 5, 1921. Serial No. 435,185. 8 Claims. (Cl. 158—7.)

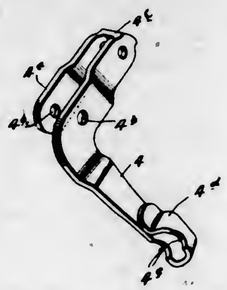
1. A closed high temperature gas burner, comprising a hollow base or frame with a rim and radial ribs supporting a well or recess in the center, having a cone beveled top and a blank bottom with a hub in its center, a nozzle from the rim to the well, means for closing up the open space between rim and well against access of the surrounding air, a central valve with a cone beveled top

concentric with the cone beveled top of the well and having a hub in the center, means for raising and lowering



the valve, thus opening or closing the concentric passage between well and valve, substantially as and for the purposes specified.

1,388,461. SPRING-EQUALIZER ATTACHMENT FOR AUTOMOBILES. BEN F. HARDESTY, St. Louis, Mo. Filed Jan. 24, 1920. Serial No. 353,905. 2 Claims. (Cl. 267—17.)



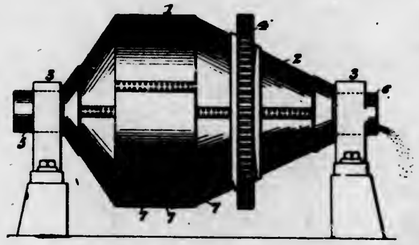
2. A spring equalizer attachment for automobiles comprising a blank bent upon itself and provided with perforations to form a fulcrum, and means of attachment for the spring shackle, the opposite end of said blank being recessed at its edges and bent upon itself to form a slotted opening through which an equalizer rod may pass.

1,388,462. GRINDING-MILL. HARRY W. HARDINGE, New York, N. Y., assignor to Hardinge Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 31, 1919. Serial No. 334,763. 8 Claims. (Cl. 83—9.)



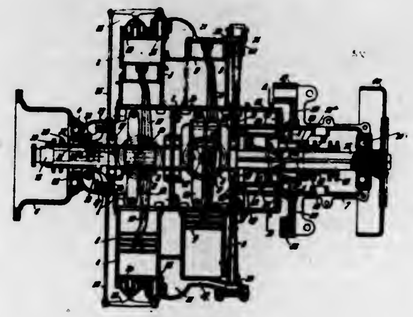
1. A grinding mill unit comprising a substantially integral body having conical ends and a central bore.

1,388,463. GRINDING-MILL AND GRINDING MEDIUM THEREFOR. HARRY W. HARDINGE, New York, N. Y., assignor to Hardinge Company, New York, N. Y., a Corporation of Delaware. Filed July 8, 1920. Serial No. 394,636. 2 Claims. (Cl. 83—9.)



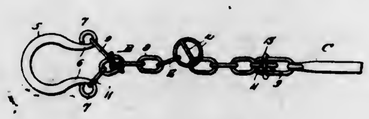
1. A grinding mill comprising in combination, a rotatable drum containing a multiplicity of discus-shaped elements relatively slidable with respect to each other and free to assume a position in which their geometrical axes are at a substantial angle to the axis of rotation of said drum, each of said elements comprising two cone portions secured base to base, the altitude of each cone portion being small as compared to the diameter of its base.

1,388,464. GYROSCOPIC APPARATUS FOR TRANSMISSION OF POWER. CAMILLE JEAN HAUTIER, Boulogne, France. Filed Apr. 12, 1913. Serial No. 760,768. 8 Claims. (Cl. 60—53.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



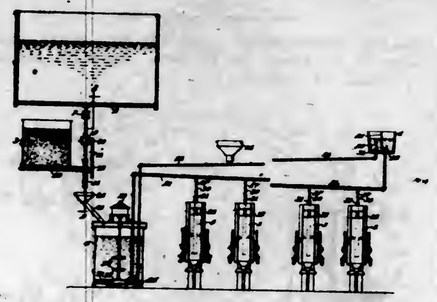
1. In a power transmission, the combination with a driving shaft, of a rotatable air pump driven by said shaft, a rotatable air driven engine, a driven shaft operated by said engine, an air reservoir included between the pump and engine, said engine, pump and reservoir rotating as a unit, and means to partially unload the pump including means to render it inactive.

1,388,465. HOPPLE. ELLIS ERVIN HIGLEY, Salmon, Idaho. Filed June 10, 1920. Serial No. 387,005. 3 Claims. (Cl. 119—128.)



1. A hopple including a cuff adapted to encircle the leg of the animal and having an eye formed on each of the adjacent ends, a chain consisting of a plurality of links and having one end link secured in one of the eyes of said cuff, a ring carried by the outer link of said chain, a long link carried by the other of said eyes on said cuff and through which said chain and said ring are adapted to pass, and a combined stop and centering link carried by one of the links of said chain and receiving the long link to limit the approach of the point of engagement of the long link and chain toward the leg of the animal and to constrain the pull of the chain to be exerted substantially radially of the cuff.

1,388,466. ELECTROLYSIS OF SOLUTIONS AND APPARATUS THEREFOR. ALBERT H. HOOKER, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Aug. 5, 1920. Serial No. 401,391. 3 Claims. (Cl. 204—1.)

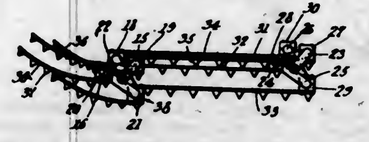


1. In a process of electrolysing salt solutions, the step which consists in supplying to the cell an aqueous electrolyte carrying a salt in solid phase.

1,388,467. FLEXIBLE PAPER TUBING. EMIL KELLER, Vienna, Austria. Original application filed May 22, 1919, Serial No. 299,056. Divided and this application filed May 1, 1920. Serial No. 378,245. 10 Claims. (Cl. 93—94.)

1. As an article of manufacture, a flexible tubing consisting of a paper tube, provided with corrugations having intermediate side parts between their hollows and crests, which are closely abutting along their adjacent faces.

1,388,468. BAND-CUTTER AND FEEDER FOR THRESHING-MACHINES. ISAAC KIRBY, Oklahoma, Okla. Filed Sept. 30, 1918. Serial No. 256,251. 3 Claims. (Cl. 130—1.)



1. The combination with a threshing cylinder and a conveyer extending upwardly toward the cylinder, of spaced crank shafts, located over the conveyer and adjacent the cylinder respectively, bearing boxes mounted on the shafts, a bar secured at one end to the top of a bearing box on the shaft above the conveyer and at its other end to the bottom of the bearing box on the other shaft, knives extending downwardly from the bar and means above the conveyer and connected with said bar for cutting bundles as they are brought successively to the upper end of the conveyer and under the bar.

1,388,469. BUTTON. ALBERT LATHAM, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me., a Corporation of Maine. Filed Feb. 19, 1919. Serial No. 277,931. 37 Claims. (Cl. 24—90.)



1. A button comprising a body having an opening therethrough, a securing member having an expansible portion extending into the opening, and a member entering the opening at the opposite side and coöperating with the securing member to permanently deform it.

1,388,470. BUTTON. ALBERT LATHAM, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me., a Corporation of Maine. Filed Mar. 10, 1919. Serial No. 281,836. 26 Claims. (Cl. 24—90.)



1. A button comprising a body having a plurality of openings, a securing member provided with portions extending into the openings, and a member engaging said portions.

1,388,471. BUTTON. ALBERT LATHAM, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me., a Corporation of Maine. Filed Oct. 2, 1919. Serial No. 327,937. 14 Claims. (Cl. 24—90.)



1. A button comprising a body, and securing members formed with a projection and depression arranged for engagement by direct rectilinear movement and retained positively against separation by reverse movement to connect the members to the body.

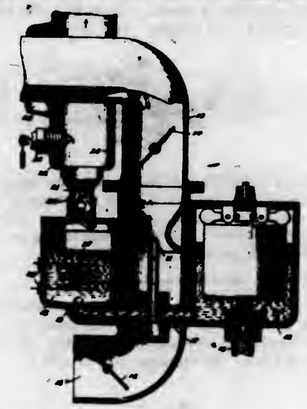
1,388,472. PLASTIC COMPOUND AND PROCESS. WILLIAM GODSON LINDSAY, Newark, N. J., assignor to The Celluloid Company, a Corporation of New Jersey. Original application filed Dec. 12, 1914. Serial No. 876,806. Patent No. 1,199,800. Divided and this application filed Sept. 1, 1916. Serial No. 118,002. 7 Claims. (Cl. 106—40.)

1. A composition of matter containing an acetyl cellulose, borneol, and a miscible medium.

1,388,473. FUEL PREHEATING DEVICE FOR INTERNAL-COMBUSTION ENGINES. THOMAS J. LITLE, Jr., Detroit, Mich., assignor to Lincoln Motor Company, Detroit, Mich., a Corporation of Delaware. Filed June 7, 1920. Serial No. 387,050. 12 Claims. (Cl. 219—38.)

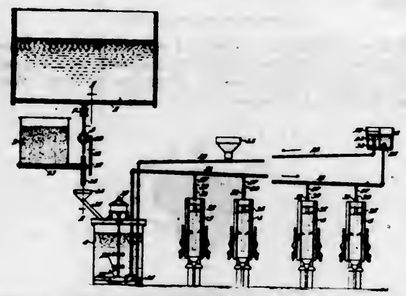
1. In an internal combustion engine, in combination, means for supplying fuel thereto, and means for preheating the fuel comprising a flame inclosing and confining casing in heating relation to said fuel supplying means, a vaporising chamber for a volatile combustible fluid in

communication with said casing, and heating means for vaporizing the hydrocarbon in said chamber, the resulting



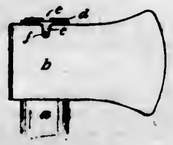
vapors passing into the flame inclosing chamber for ignition.

1,388,474. APPARATUS FOR ELECTROLYZING SOLUTIONS. THOMAS L. B. LYSTER and KENNETH E. STUART, Niagara Falls, N. Y., assignors to Hooker Electrochemical Company, New York, N. Y., a Corporation of New York. Filed Aug. 13, 1920. Serial No. 403,326. 8 Claims. (Cl. 204—5.)



1. The combination with an electrolytic cell of means for supplying electrolyte thereto; said means comprising an external circulating system for electrolyte; a feed orifice for the cell; and means included in said circulating system for maintaining a constant head at said feed orifice.

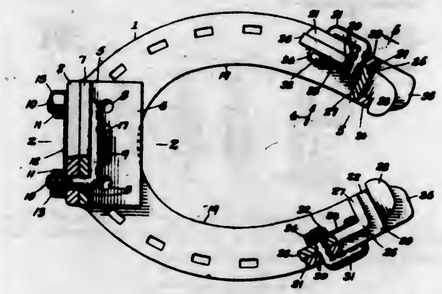
1,388,475. ATTACHMENT FOR AX-HEADS. CHARLES EDGAR MANNERS, Glenville Glen, Crafers, South Australia, Australia. Filed Aug. 26, 1920. Serial No. 406,100. 1 Claim. (Cl. 306—33.)



An attachment for ax heads comprising the combination with an ax head provided with a handle-receiving eye and having slots at said eye portion extending downwardly from the upper edge of the head, of a wedge adapted to be driven into the handle, said wedge having an open slot in its thicker portion designed to register with the slots in the head and to allow said wedge when loose to be driven farther into the handle, and a pin engaging the slots in the head and wedge and passing through the handle.

1,388,476. [WITHDRAWN.]

1,388,477. HORSESHOE. LAYTON M. MUSSELMAN, Jersey City, N. J. Filed June 15, 1920. Serial No. 389,140. 7 Claims. (Cl. 168—34.)



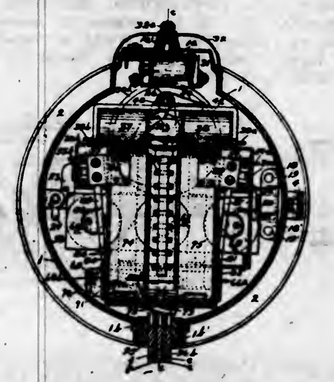
1. A horseshoe provided with a main toe calk member and with L-shaped main heel calk members, the longer arms of which extend longitudinally of the sides of the shoe and the shorter arms transversely thereof, and supplemental toe and heel calk members which are angular in form and fitted within the main toe and heel calk members and secured in position by U-shaped bolts.

1,388,478. TENT. ALBERT R. NELSON, Sheridan, Wyo. Filed May 13, 1920. Serial No. 381,152. 2 Claims. (Cl. 135—1.)

1. A tent comprising a fabric body, supporting bows positioned in the body with their ends engaging the ground and having their upper portions provided with studs passing through the body, and a reinforcing strip extending longitudinally of the body at the ridge and having free end portions extending beyond and out of engagement with the forward and rear ends of the body for engagement by guy ropes.

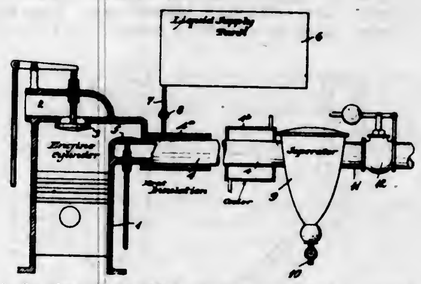
2. A shelter comprising a body and supporting arches for the body each formed of side members having upper and lower sections, sleeves slidably and releasably connecting the members and sections thereof, and resilient means positioned in the sleeves between the sections to retain the arches in tight engagement with the body.

1,388,479. ELECTRICAL WATER-LEVEL-INDICATING APPARATUS. WALTER D. NICKUM, Glendale, Calif. Filed Sept. 16, 1918. Serial No. 254,845. 29 Claims. (Cl. 177—351.)



1. A signal system including a conducting medium, a series of contacts connected in succession by the conducting medium, a source of current, a conductor from one side of said source of current having branches connected respectively to certain of said contacts, an electro-responsive device in each of said branches, a conductor extending from a contact intermediate said first-named contacts to the other side of said source of current, a plurality of signals equal in number to the number of contacts and means operated by the electro-responsive devices for rendering the signals active one at a time in accordance with the position of the conducting medium relative to the contacts.

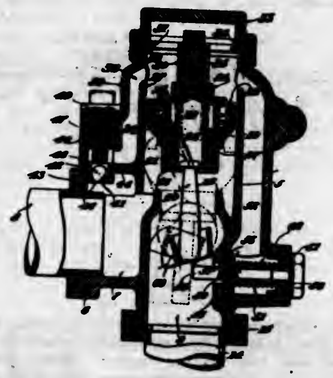
1,388,480. ART OF SEPARATING USEFUL PRODUCTS FROM THE EXHAUST OF INTERNAL-COMBUSTION ENGINES. AUGUSTE JEAN PARIS, Jr., Charleston, W. Va. Filed Apr. 12, 1919. Serial No. 289,767. 8 Claims. (Cl. 196—25.)



1. In the art specified, the process which consists in absorbing the heat from products of combustion from an internal explosive engine by introducing therein a suitable heat absorbing agent other than water, and thereafter condensing and separating out the liquefiable products.

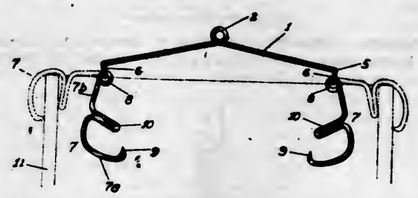
1,388,481. FLUSHING-VALVE. CHARLES H. PHILLIPS, Malden, Mass., assignor to Phillips Flushing Tank Company, Boston, Mass., a Corporation of Maine. Filed May 23, 1919. Serial No. 299,173. 11 Claims. (Cl. 137—93.)

9. A flushing valve having, in combination, an inlet, an outlet, a main valve normally closing the outlet, a by-pass leading from above the main valve to the outlet, an operating valve in said by-pass, a second by-pass leading from the inlet to above the main valve, and a ball valve in said second by-pass adapted to restrict the flow of water therethrough and to cause the ball to be completely inclosed within a body of water at each operation of the



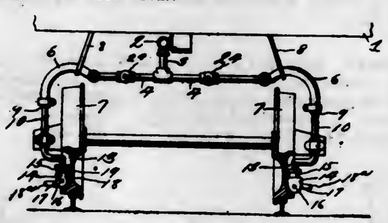
valve and having provision whereby it may be adjusted from the exterior of the flushing valve to regulate the flow of water by the ball.

1,388,482. GRAPPLING-HOOK. FRANK J. PORTER, Kernan, Calif. Filed May 24, 1920. Serial No. 388,618. 5 Claims. (Cl. 294—78.)



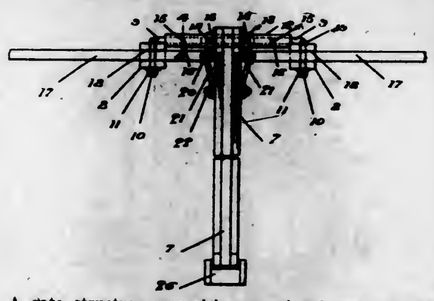
1. A grappling hook comprising a rigid beam adapted to be raised, and hook members flexibly mounted at the ends of the beam and constructed to be slipped over the sides of a box and to automatically and firmly engage said sides when the beam is raised.

1,388,483. AIR-BRAKE CONTROL. JOSEPH S. RASNICK, St. Paul, Va., and WALKER S. BLEVINS, Kingsport, Tenn. Filed May 26, 1921. Serial No. 472,678. 1 Claim. (Cl. 246—172.)



The combination with a railroad car having an air brake pipe and supported on wheels disposed on rails, of outwardly and downwardly extending pipes carried by the air line pipe, flexible connections in said outwardly and downwardly extending pipes, the lower ends of said outwardly and downwardly extending pipes being disposed within the outer chambers of the wheels, valves carried by the outwardly and downwardly extending pipes and means carried by the ends of the outwardly and downwardly extending pipe and so constructed that when it engages the rails air from the train line pipe will be released.

1,388,484. FARM-GATE. FLEMING C. RAWLEY, Houston, Tex. Filed Sept. 7, 1920. Serial No. 408,667. 1 Claim. (Cl. 39—60.)



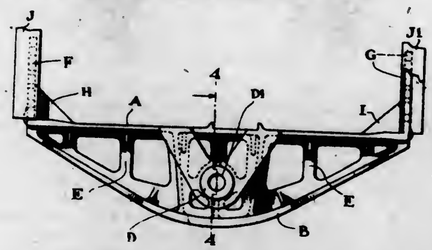
A gate structure comprising a pair of posts, a gate between them, a hinge tube extending through the gate, collars on said tube bearing against opposite sides of said gate, a pair of alining transverse rods fitted within the opposite end portions of said tube and having at their opposite end portions extending at an angle and engaging through said posts parallel with the gate, means on the opposite ends of said rods for securing same to said posts, said rods having grooves within said tube, and means carried by the tube engaging in said grooves for holding the tube and rods together for the turning movement of the tube on the rods.

1,388,485. GROUND. JOSEPH E. ROSENFELD, Council Bluffs, Iowa. Filed June 14, 1919. Serial No. 304,351. 2 Claims. (Cl. 72—105.)



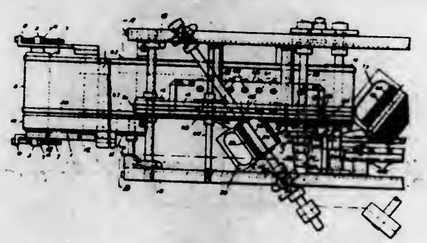
2. A ground comprising a perforated plate having a central opening, a block disposed within said opening, a continuous, inwardly projecting inclined flange on said plate, said block having an inclined portion extending co-extensively with the flange and engaged by said flange and a portion of uniform diameter projecting outside of said flange.

1,388,486. RAILWAY-CAR. HUGH W. SANFORD, CHARLES A. GRIFFITH, and GEORGE E. JONES, Jr., Knoxville, Tenn., assignors to Sanford-Day Iron Works, Knoxville, Tenn., a Corporation of Tennessee. Filed Dec. 2, 1920. Serial No. 427,772. 7 Claims. (Cl. 105—364.)



1. In a structure of the kind described, a one piece casting comprising an end sill, a bumper projecting therefrom, a draw bar element, and corner stiffeners for connection with the longitudinal sills, substantially as described.

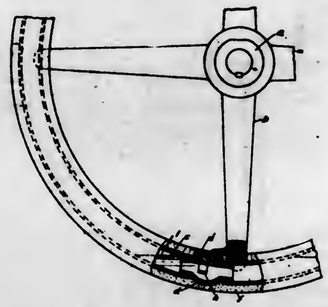
1,388,487. TOBACCO-STEMMING MACHINE. JAMES P. SCOVILL, Troy, N. Y., assignor, by mesne assignments, to Tolhurst Machine Works, a Corporation of New York. Filed Apr. 25, 1918. Serial No. 230,797. 41 Claims. (Cl. 131—57.)



1. A tobacco stemming machine including in combination a pair of leaf conveyers traveling side by side, one conveyer being longer than the other, a belt superposed upon the long conveyer, the long conveyer and superposed belt having coacting stem flexing and gripping devices, and means for stemming the projecting butt part of the leaf after it has passed the short conveyer and while it is held by the flexing grip between the other conveyer and the belt.

2. A tobacco stemming machine including in combination a pair of leaf conveyers traveling side by side, one conveyer being longer than the other, a belt superposed upon the long conveyer, the long conveyer and superposed belt having coacting stem flexing and gripping devices, and stem butt cleaning rolls arranged diagonally with respect to the conveyers, and acting to stem the butt end of the leaf and to bend the stems backwardly perpendicularly to the axis of the rolls whereby the pull of the rollers is at angle to the main line of the stem.

1,388,488. ELECTROVAPOR-HEATED STEERING-WHEEL. ARTHUR L. SENN, Seattle, Wash. Filed May 24, 1920. Serial No. 383,966. 4 Claims. (Cl. 219—19.)

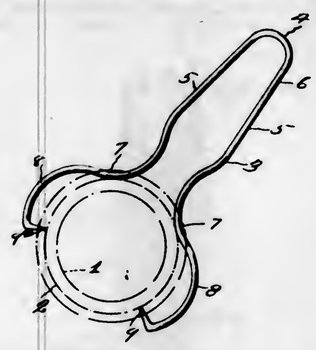


1. A steering wheel having a hollow rim forming a closed chamber, a heat-conveying liquid in said chamber, and an electrical heating element positioned to heat said liquid.

1,388,489. CARBON-SCRAPER. ALFRED BRUNO SEPPMANN, Lake Crystal, Minn. Filed May 5, 1921. Serial No. 467,161. 3 Claims. (Cl. 83—64.)

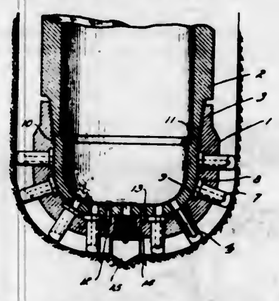
1. A carbon scraper for scraping carbon from piston ring grooves of pistons, said scraper being formed from a single piece of spring material bent upon itself to

form a U-shaped handle, the arms of said handle extending inwardly toward each other and forming portions adapted to be received by the piston ring grooves, said



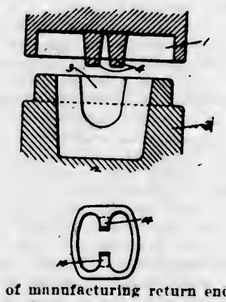
arms beyond the groove receiving portions extending outwardly and inwardly and terminating in scraping arms adapted to engage in the groove of the piston and scrape said groove upon a movement of the tool as a whole.

1,388,490. ROTARY EARTH-BORING DRILL. JOHN R. SUMAN, Houston, Tex. Filed Sept. 18, 1920. Serial No. 411,180. 8 Claims. (Cl. 255—61.)



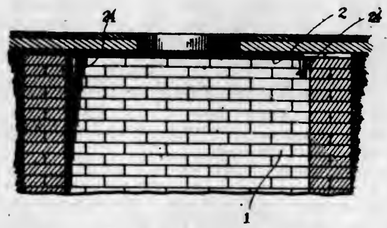
1. A rotary earth boring drill comprising a head, radially projecting teeth on the outer face thereof, said teeth having cutting edges presented forwardly in the direction of rotation and means to discharge flushing water against the cutting edges of each of said teeth.

1,388,491. PIPE-COUPLING. ROBERT ABSALOM THOM, Manchester, England, assignor to The Superheater Corporation Limited, London, England. Filed Aug. 27, 1919. Serial No. 320,207. 3 Claims. (Cl. 29—157.6.)



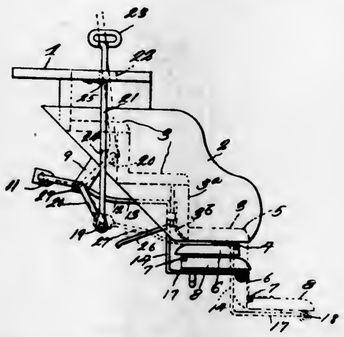
1. A method of manufacturing return ends for the elements or pipes of steam superheaters or the like, in which a solid piece or billet of metal is formed into a hollow forging having integral inwardly projecting solid webs or fins, the inner portions of which webs or fins are subsequently cut away to provide the passage way through the end, the forging being next operated upon to bring the remaining portions of said webs or fins together and produce circular orifices on either side of the web portions, the said web portions being then welded together where they meet, and suitable drilling or reaming operations being then performed to render the holes at the end of forging to which the pipes are connected truly circular, the metal being suitably heated as required for the forging operations.

1,388,492. MANHOLE-COVER. JOHN H. THOMSEN, Davenport, Iowa. Filed Apr. 19, 1920. Serial No. 374,944. 2 Claims. (Cl. 94—35.)



1. A man hole comprising a cover plate having inner and outer spaced annular ribs formed on the side, spaced pairs of radial arms having their intermediate portions extended through and turned into said outer ribs, said inner ribs being provided with openings slidably receiving the inner portions of said pairs of arms, pairs of latch bars carried by the other end of said pairs of arms, and coiled springs confined between the arms of said pair of arms for separating the outer portions of the arms in each pair and urging the latch bars outwardly.

1,388,493. EXTENSIBLE CAR-STEP. JASPER TOUTGES, Holland, Minn. Filed Mar. 22, 1921. Serial No. 454,478. 3 Claims. (Cl. 105—448.)

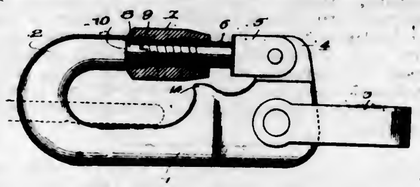


3. The combination with a foldable car step, said step comprising a hinged riser and tread and a right angled bracket having the end of one of its arms pivoted to the tread section adjacent its free edge and its vertical portion adapted to engage the rear face of the riser, of means for rigidly interengaging the vertical portion of the bracket with the riser when said car step is extended.

1,388,494. BUTT-HOOK. CHARLES VALA, Marshfield, Oreg. Filed Oct. 28, 1920. Serial No. 420,284. 3 Claims. (Cl. 24—241.)

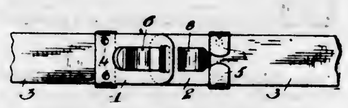
1. A logging hook comprising a body having a choker engaging bill terminating in a reduced stem forming an

annular shoulder, a threaded locking stem having one end portion enlarged for forming a second shoulder and an attaching portion pivotally connected to said body, and a stem connecting sleeve of elongated formation threaded on said second named stem and confined between



said shoulders, said elongated sleeve receiving the major portions of said stems for protecting the stems and reinforcing the connection between the same, said sleeve having its ends counter-bored for forming enlarged entrance openings for said stems, said sleeve being adapted to connect the stems for closing the hook.

1,388,495. CLASP. ANNA L. VILANDRER, New York, N. Y. Filed Oct. 23, 1920. Serial No. 418,085. 8 Claims. (Cl. 24—265.)



1. A clasp comprising complemental members having interengaging means to detachably connect them together, said means on one of said members being in position to engage a tube of a garment to prevent withdrawal therein, the other of said members having means to engage said tube to prevent withdrawal of said member into the tube.

1,388,496. ROTARY BORING-DRILL. FRANK L. O. WADSWORTH, Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Filed Jan. 29, 1919. Serial No. 273,715. 28 Claims. (Cl. 255—71.)



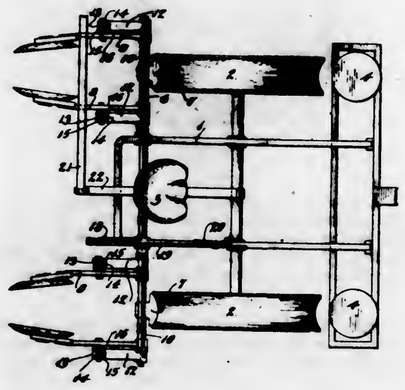
1. In a rotary well boring drill, the combination of a drill head, rotary cutters thereon, a hollow drill stem and a driving head interposed between the drill head and the drill stem and comprising two relatively reciprocable members, one of which is attached to the drill head, and the other of which is attached to the drill stem, said members acting when reciprocated to cause a positive rotation of said cutters.

1,388,497. ROTARY BORING-DRILL. FRANK L. O. WADSWORTH, Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex., a Corporation of Texas. Original application filed Oct. 18, 1919, Serial No. 329,409. Divided and this application filed Apr. 13, 1920. Serial No. 373,493. 9 Claims. (Cl. 255—71.)



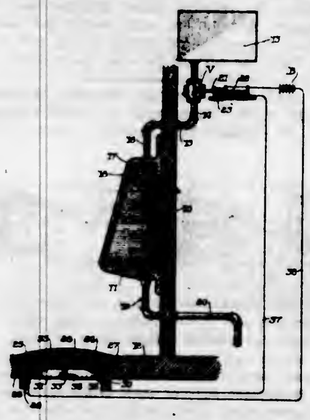
1. In a rotary disk drill, the combination of a head, and a rotatable disk member mounted thereon at a small angle to the axis of the head and provided with oppositely disposed cutting edges so positioned with reference to the drill axis as to exert a symmetrically balanced cutting action.

1,388,498. PLANTER ATTACHMENT. WILLIAM WELKE, Cleghorn, Wis. Filed Apr. 10, 1920. Serial No. 372,905. 2 Claims. (Cl. 97—91.)



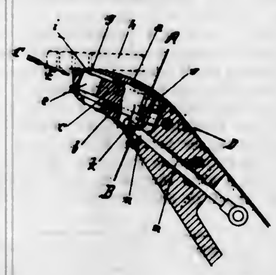
1. A coverer attachment for a planter or similar implement having furrow opening tools and a transversely extending shaft, said attachment comprising disk carrying arms pivotally mounted upon said shaft in pairs, each pair of arms being spaced apart upon opposite sides of the path of a furrow opening tool, disks mounted upon said arms in rear of said furrow opening tools, a controller shaft journaled upon said planter above said transversely extending shaft, arms arranged upon said controller shaft in spaced relation to correspond with the disk carrying arms, yieldable connecting means between each of said last mentioned arms and its corresponding disk carrying arm whereby said arms are adapted to yield vertically independently of each other, and a lever connected to said controller shaft for operating the same to simultaneously raise or lower all of said disks.

1,388,499. AUTOMATIC FLUSHING MECHANISM. JAMES CLAUDE ADELL, Cleveland, Ohio. Filed Jan. 8, 1917. Serial No. 141,155. 4 Claims. (Cl. 200—85.)



1. In a device of the kind described, a floor having an opening, a peripheral ledge in said opening below the floor level, a yielding closure in said opening, supported on said ledge, waterproof cement sealing the closure in the opening, the middle portion of the closure lying above the floor level, electric spring contacts beneath said closure adapted to be brought into contact to close a circuit by weight on the closure, and a spring normally holding such closure raised.

1,388,500. CUTTING DEVICE. ALBERT ANDRÄS, Cannstatt, Germany, assignor to the Firm of Fortunawerke, Spezial-Maschinen-Fabrik, G. M. B. H., Cannstatt-Stuttgart, Germany. Filed Sept. 24, 1919. Serial No. 326,102. 6 Claims. (Cl. 1—41.)



1. In a device of the character described, in combination, a work-supporting arm, a hollow cutting edge carrier carried by said arm and extending substantially longitudinally of it, a second cutting edge carrier concentrically arranged within the first-named carrier, and means for imparting to at least one of said carriers a movement about their common axis.

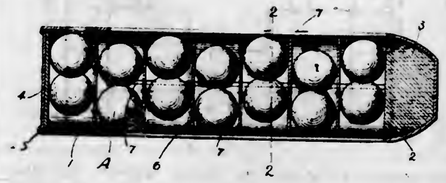
1,388,501. BINDER FOR BURNING COMPOSITIONS. EVELYN PAUL AURAND, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed May 5, 1921. Serial No. 467,129. 7 Claims. (Cl. 52—5.)

2. A non-explosive article of manufacture comprising an inflammable ingredient and a binder of gelatinized nitro-starch.

1,388,502. TORCH FUSE-LIGHTER. EVELYN PAUL AURAND, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a Corporation of Delaware. Filed May 5, 1921. Serial No. 467,130. 5 Claims. (Cl. 52—23.)

1. As an article of manufacture and use, a torch for lighting fuses consisting of mealed black powder and analogous substances and a binding material which consists essentially of gelatinized nitro-starch.

1,388,503. CANISTER. EDWARD M. AYER, U. S. Army, assignor to Newton D. Baker, Secretary of War, trustee. Filed Feb. 4, 1919. Serial No. 275,024. 1 Claim. (Cl. 102—33.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



A canister for warfare, including a casing closed at its forward end and provided with longitudinal slots, a filler in the forward end of the casing, balls in the casing and arranged in layers, spacing disks between the layers of balls and a closure for the rear end of the casing.

1,388,504. TIME-RETARDED LAMP-EXTINGUISHING DEVICE. MALCOLM H. BAKER, Braintree, Mass.; Marie H. Baker, administratrix of said Malcolm H. Baker, deceased, assignor, by mesne assignments, to Tremont Products Company, a Corporation of Massachusetts. Filed Aug. 9, 1915, Serial No. 44,602. Renewed Nov. 4, 1920. Serial No. 421,792. 6 Claims. (Cl. 67—87.)

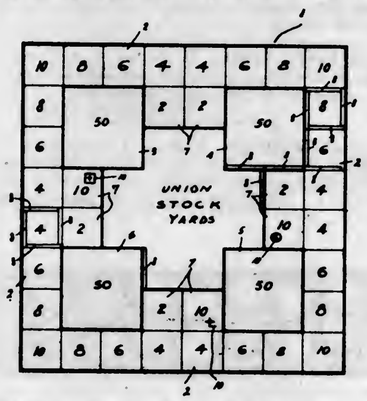


1. In combination with a gas burner and controlling valve therefor, means adapted upon designed manipulation to open the valve; actuating devices including a motor spring adapted to be energized, upon opening of the valve, to close the same; and mechanism arranged independently of the operation of said burner automatically to catch and to hold said devices inoperative for an indeterminate period after said valve is opened; said mechanism being separately actuatable by subsequent manipulation of said valve opening means thereby to fee said devices for operation while the burner is normally operating; together with retarding means automatically operative to slow down the valve-closing action of said devices, thereby to delay burner extinguishment after said subsequent manipulation of said means.

1,388,505. GAME. THOMAS HENRY RAMFORTH, North Vancouver, British Columbia, Canada, assignor of one-half to Ruby Mae Rawlings, Vancouver, Canada. Filed May 13, 1920. Serial No. 381,143. 3 Claims. (Cl. 46—64.)

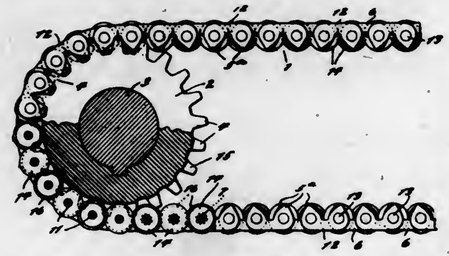
1. In a game of the character described, a board having a row of small outer squares along each side, larger squares at each corner of the space inclosed by the small squares, small inner squares between the large ones, the

remaining space forming a central inclosure bounded by the larger squares and the small inner squares, all of said squares having values, and bars adapted to be placed by



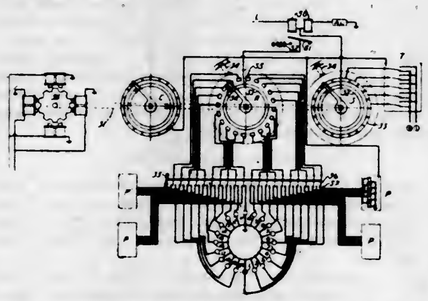
the players to inclose the squares whereby the player placing the last inclosing bar on a square scores the value of the square so inclosed.

1,388,506. DRIVE-CHAIN. WARREN J. BELCHER, Hartford, Conn., assignor to The Whitney Manufacturing Company, Hartford, Conn., a Corporation of Connecticut. Filed Sept. 8, 1919. Serial No. 322,462. 11 Claims. (Cl. 74—32.)



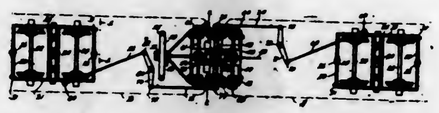
2. A sprocket drive chain provided with overlapping guide rollers.

1,388,507. SYNCHRONIZING SYSTEM. JOHN H. BELL, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed May 1, 1920. Serial No. 378,159. 4 Claims. (Cl. 178—53.)



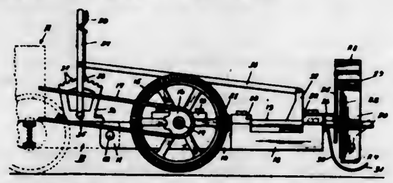
1. A synchronizing system comprising a correcting station and a corrected station, a current impulse distributer at said correcting station, a current impulse distributer at the corrected station, a recording mechanism at the corrected station adapted to be associated with the said current impulse distributer, means at the corrected station for indicating the relative phase displacement of said current impulse distributers, and means for connecting the indicating means to and disconnecting the recording mechanism from the current impulse distributer.

1,388,508. RAILWAY-TRUCK. SAMUEL B. BRILHART, New York, N. Y. Filed Mar. 27, 1920. Serial No. 369,196. 27 Claims. (Cl. 105—4.)



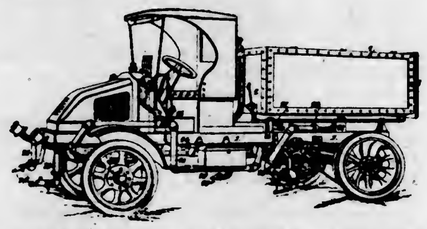
1. In railway truck construction, the combination with two car sections and means linking them together, of a truck for each car section remote from the point of connection, a single axle truck beneath the point of connection, a means connecting all of the trucks and serving to cause the transverse axis of each truck to operate in a position substantially in the radius of every track curve.

1,388,509. SNOW-REMOVER. HARLEY T. BROWN, Hubbardston, Mich. Filed June 18, 1920. Serial No. 389,901. 4 Claims. (Cl. 37—63.)



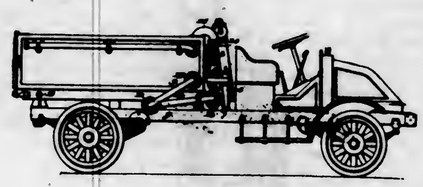
1. In combination with a tractor, a snow removing device for roads comprising a supporting structure pivotally mounted with respect to the tractor and carried thereby, a transverse shaft on said supporting structure having drive means adapted to be driven by the tractor mechanism, a pair of forwardly extending shafts journaled on said supporting structure and operatively connected with said first named shaft whereby to be driven thereby, fans secured upon the forward extremities of said second named shafts and rotating in a vertical plane, a shield carried by the forward end of the supporting structure and having its upper portion formed as a guard for the fans and also as a guide for snow thrown outwardly by the fans, and a shoe carried by the forward end of the supporting structure and extending between and below the fans.

1,388,510. STREET AND SEWER CLEANING APPARATUS. ERNEST O. CARTWRIGHT, Springfield, Ohio, assignor to Charles F. Gardner, Springfield, Ohio. Filed April 8, 1919. Serial No. 288,613. 7 Claims. (Cl. 299—36.)



4. In apparatus of the class described, the combination of a tank, a pump and an ejector having an intake duct and a discharge outlet duct, the latter being connected to deliver into the tank, said ejector having a pressure supply port connected with the pump, and a valve for controlling passage through said outlet duct, and a set of sprayer pipes and valves mounted on the vehicle and connected with said ejector.

1,388,511. PORTABLE PUMPING APPARATUS. ERNEST O. CARTWRIGHT, Springfield, Ohio, assignor to Charles F. Gardner, Springfield, Ohio. Filed May 29, 1919. Serial No. 300,544. 6 Claims. (Cl. 37—9.)



1. In apparatus of the class described, a supporting vehicle, a tank, a pump and an ejector fixedly mounted on the vehicle for elevating the material from the sump and depositing it into the tank, a duct between the outlet of the ejector and the tank for delivering the material into the tank, and an articulated non-collapsible pipe connecting the inlet of the pump with the tank for withdrawing material from the tank, the nossleway of the ejector being in communication with the outlet of the pump substantially as shown and described.

1,388,512. SECONDARY ELECTRIC CLOCK. THADDEUS STEPHENS CASNER, Plainfield, N. J. Filed Apr. 19, 1921. Serial No. 462,659. 10 Claims. (Cl. 58—26.)

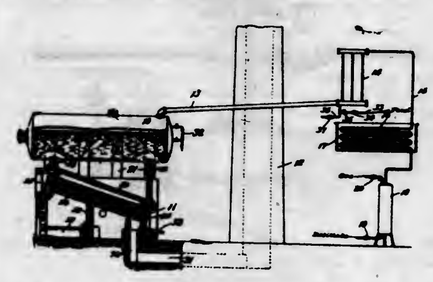


1. In a secondary electric clock, in combination, a wheel having peripheral projections constituting an armature, an electro-magnet associated with the wheel and adapted to attract said projections successively as successive impulses pass through the magnet, and a detent for holding the wheel between impulses.

1,388,513. PROCESS OF TREATING WOOD. ASA C. CHANDLER, Houston, Tex. Filed Aug. 9, 1920. Serial No. 402,316. 2 Claims. (Cl. 91—68.)

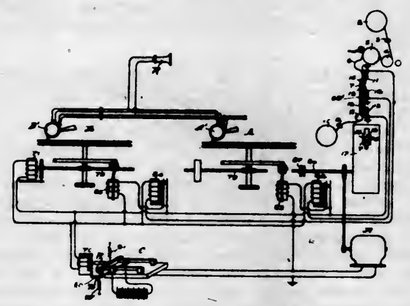
1. The process of preserving wood consisting of injecting into the wood a solution of copper carbonate in an alkaline carbonate solution and then allowing the copper carbonate to precipitate in the wood.

1,388,514. DISTILLATION OF PETROLEUM HYDROCARBONS. EDGAR M. CLARK, Alton, Ill., assignor to Standard Oil Company, Whiting, Ind., a Corporation of Indiana. Filed Dec. 14, 1915. Serial No. 66,702. 4 Claims. (Cl. 196—25.)



1. The process of treating petroleum hydrocarbons of relatively high boiling points to produce therefrom hydrocarbons of lower boiling point which consists in distilling a liquid body of such high-boiling-point stock under a pressure sufficient to effect its decomposition, carrying off the vapors of distillation while under the said pressure through a suitable unheated conduit leading away from the still, introducing fresh stock into the said conduit and causing it to traverse the latter and enter the still therethrough, and condensing and collecting the said vapors.

1,388,515. TALKING MOVING-PICTURE APPARATUS. WILLIAM M. CLARK, Chicago, Ill. Filed July 12, 1915. Serial No. 39,326. Renewed May 23, 1921. Serial No. 471,968. 8 Claims. (Cl. 88—16.2.)

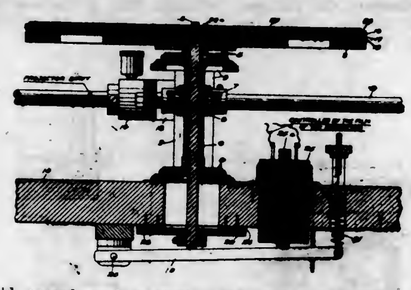


1. The combination of a switch operating moving picture film, a plate parallel to said film, a plurality of switches mounted on said plate, each switch having an element in the path of the film and controlled thereby, a circuit individual to each switch, a phonograph individual to each circuit and controlled thereover, a microphone controlled by each phonograph, a circuit common to said microphones, and a receiver under the control of said microphones in common, a driving element for operating the film and for operating the phonographs, and means controlled by one of said switches for stopping the driving element.

1,388,516. PHONOGRAPHIC APPARATUS AND COMBINED PHONOGRAPHIC AND MOVING-PICTURE APPARATUS. WILLIAM M. CLARK, Chicago, Ill. Filed Oct. 24, 1914. Serial No. 868,495. 16 Claims. (Cl. 88—16.2.)

1. In a phonograph, a record, a record driving element, means for driving the same, mechanism for bringing said record and said element into operative engagement and

for disengaging said element and record, a brake, means independent of gravity for operating said brake to stop



said record, and a single magnet for controlling the operation of said mechanism.

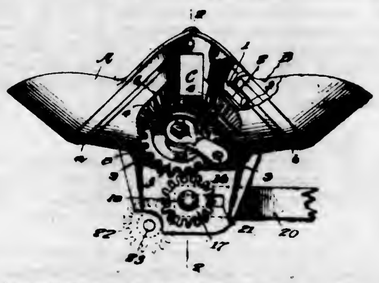
1,388,517. MANUFACTURE OF VISCOUS WATER-WHITE OILS AND OTHER DECOLORIZED PRODUCTS OF PETROLEUM. ERNEST B. COBB, Jersey City, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed July 23, 1914. Serial No. 852,671. 20 Claims. (Cl. 196—26.)

1. The process of making a decolorized hydrocarbon oil of viscous character, consisting in (1) subjecting stock which has a viscosity above forty seconds at 100° F. to the action of sulfuric acid so as to form an acid sludge which is removed, (2) distilling the acid treated oil with use of special agency to prevent the decomposition of component hydrocarbons and so obtaining distillate which has a viscosity above forty seconds at 100° F., (3) subjecting said distillate to the action of sulfuric acid so as to form an acid sludge which is removed, and (4) filtering the oil which has thus been twice subjected to sulfuric acid and to an intervening distillation through solid decolorizing material, substantially as described.

1,388,518. PROCESS OF INTERIOR DECORATION. ALBION P. COLE, Brockton, Mass. Filed Jan. 6, 1921. Serial No. 435,538. 1 Claim. (Cl. 91—68.)

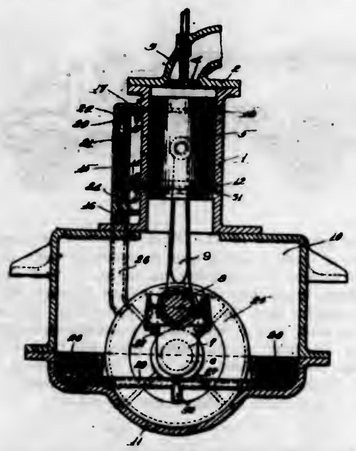
The process of interior decoration consisting of the application in three portions of first, an adhesive portion consisting of flour, animal glue and molasses, and moisture to allow its free spreading; the application of the second portion consisting of wood pulps of various natural colors, mixed with flour for adhering, petrolatum for permanency of colors, and glycerin to prevent excessive drying, and moisture sufficient to permit application with a trowel or like implement; and the finishing of the second portion with the third portion consisting of petrolatum, glycerin, silicate of soda and camphor, to which are added as required, magnesia and silex, and wax and potato starch for polishes.

1,388,519. DUPLEX PLANTER. EUGENE M. COLE, Charlotte, N. C. Filed Jan. 14, 1920. Serial No. 351,280. 14 Claims. (Cl. 221—122.)



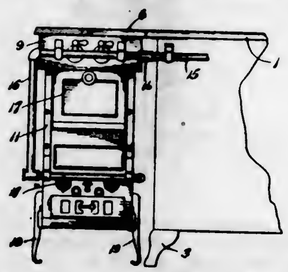
1. In a planter, the combination with a pair of hoppers, of a seed plate in each hopper, a gear rigid with each seed plate, a driving gear, all of said gears lying permanently in different planes, and means for shifting said driving gear into a position where it meshes with both seed plate gears simultaneously, or into positions where it meshes with either one of said gears, only.

1,388,520. LIQUID PACKING MEANS FOR ENGINE-PISTONS. EUGENE A. FOAD, Newton, Mass., assignor to R. E. D. Engine Company, Inc., New York, N. Y., a Corporation of New York. Filed Oct. 6, 1920. Serial No. 415,176. 10 Claims. (Cl. 74—108.)



1. A piston packing means comprising in combination with a piston and an inclosing wall within which said piston is reciprocatable and is acted upon by fluid pressure, said wall having a groove surrounding the piston, means for maintaining a constant supply of packing liquid in said groove to compensate for leakage of the liquid therefrom, and means for applying the said fluid pressure externally upon the packing liquid.

1,388,521. INCINERATOR ATTACHMENT FOR GAS-STOVES. HARRY J. HOOVER, Norwood, Ohio. Filed Nov. 24, 1917. Serial No. 203,652. 1 Claim. (Cl. 126—224.)



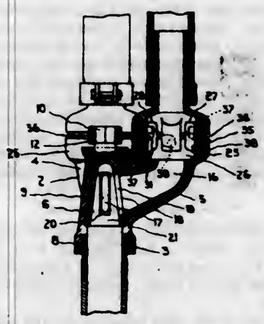
A device for use in connection with gas ranges having extension shelf slots in the top thereof, comprising a casing shaped to conform to the shape of the range, a fire insulated incinerator in said casing having a flue at the rear thereof, a gas burner box in the upper part of the casing having a top, gas supply pipes on said casing adapted to be secured to the gas pipes of the range, and extendible legs for said casing adapted to stand on the floor and to hold said burner box top on a level of the range top so as to form a continuation thereof, and lugs on the burner box top to engage the extension shelf slots in the range top, whereby an incinerator and cooking attachment for gas ranges is provided which requires no modification of the range and utilizes no kitchen floor space not given to cooking.

1,388,522. CUFF-BUTTON. CHARLES D. LYONS, Mansfield, Mass. Filed Feb. 14, 1919. Serial No. 277,054. 1 Claim. (Cl. 24—102.)



A separable cuff link button comprising independent button members each having an outer head and a flanged inner head, the latter adapted to pass through the button holes of the cuff and retain said member therein, and means for detachably securing the same together comprising a snap connection with means responsive to the pressure of the hand for releasing the same, said button members when connected being susceptible of a rocking movement relatively one to the other.

1,388,523. VALVE-COUPLING. ROBERT J. NOAKES, Montreal, Quebec, Canada, assignor, by direct and mesne assignments, to Chicago Pneumatic Tool Company, New York, N. Y., a Corporation of New Jersey. Filed June 28, 1919. Serial No. 307,442. 4 Claims. (Cl. 251—109.)



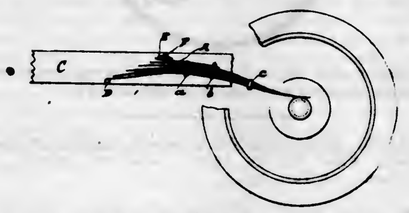
1. A valve coupling for connecting an intake pipe line and a pair of branch lines; said coupling consisting of a unitary integral casting including a pair of offset outlets for connection to the branch lines, a valve within the casting and located on the axial line of the intake pipe line and controlling the outlets, and a blow-off passage in said valve adapted to successively relieve the branch lines of pressure when the valve is moved from open to closed positions.

1,388,524. CONTROL FOR ARTIFICIAL ARMS AND LEGS. JOSEPH R. B. NORFOLK, Jessups, Md. Filed Aug. 18, 1920. Serial No. 404,479. 3 Claims. (Cl. 3—11.)



3. In a control for artificial limbs, the combination with two control strap sections, of an eye member secured to one section, a yoke member secured to the other section, and a rocking member mounted on the yoke member, said rocking member including a loop part passing through the eye of the eye member, said loop part having a relatively long end portion and a relatively short end portion with respect to the axis of rocking movement.

1,388,525. LAMINAR SUSPENSION OR SHOCK-ABSORBING SPRING FOR USE ON VEHICLES AND AIRCRAFT. ERNEST OWEN, FRANCIS CLARE PEARSON, and ARTHUR W. BERNDT, London, England. Filed July 16, 1920. Serial No. 396,727. 3 Claims. (Cl. 267—41.)



1. A laminar spring comprising a major leaf extending from one end to the other of the spring and adapted to bear yieldingly at its ends, a plurality of superposed reinforcing leaves arranged with one end of each leaf bearing directly on the next adjacent leaf and with the other ends of the leaves normally separated, and a bearing plate rigidly secured upon the superposed reinforcing leaves and having a free end separated from the leaves and projecting over the separated ends thereof, said free end of the bearing plate being adapted to receive the load.

1,388,526. HOT-AIR SYRINGE. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed Aug. 13, 1917. Serial No. 185,863. 9 Claims. (Cl. 219—39.)

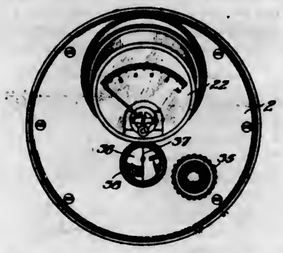


1. In an air syringe, the combination with a body having a recessed outer end and a transversely extending seat, of a sleeve located within the recess and having an inner end fitting the seat, a securing device fastening the end of the sleeve on the seat, said body and sleeve being provided with air passages each having laterally communicating portions formed therein at the point of union of the sleeve and seat.

1,388,527. IONIZATION-CURRENT REGULATOR. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed Nov. 5, 1918. Serial No. 261,311. 8 Claims. (Cl. 219—56.)

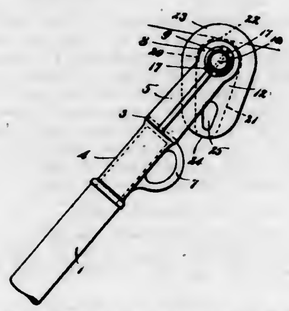
1. In a rheostat, a support, a member carried thereby in spaced relation, a resistance element carried by and

insulated from said member, a conductor carried by and insulated from said member, and an operating device



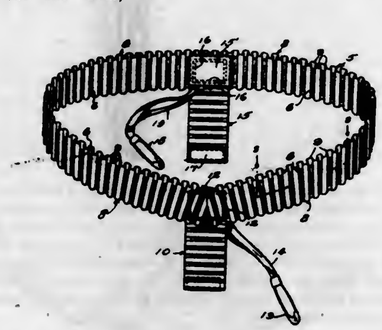
movably carried by said member and having connected contacts engaging said conductor and element.

1,388,528. TROLLEY-SHOE. LEWIS H. SHIPMAN, Boston, Mass. Filed July 18, 1918. Serial No. 245,491. 5 Claims. (Cl. 191—59.1.)



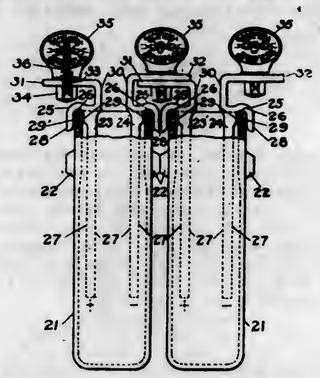
1. A sliding trolley shoe of the kind described, comprising two wire-engaging surfaces extending in divergent planes connected at the point of greatest divergence by a wire-engaging arc shaped surface.

1,388,529. SUPPORTER OF CATAMENIAL SACKS OR NAPKINS. GOODWIN B. SMITH, Philadelphia, Pa. Filed Mar. 15, 1921. Serial No. 452,419. 7 Claims. (Cl. 128—291.)



1. A supporter of a catamenial sack or napkin, comprising a waist band, said band embodying an elastic webbing and a corrugated strip woven therewith, said strip forming arched cells extending laterally beyond the webbing for a substantial distance, said cells holding the webbing spaced from the body, and supporting elements carried by the band.

1,388,530. ELECTRODE FOR STORAGE BATTERIES. VINCENT C. STANLEY, Brookline, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y., a Corporation of New York. Filed Feb. 4, 1920. Serial No. 356,305. 7 Claims. (Cl. 204—29.)



1. In a storage battery electrode: a plate of desired polarity; a connecting strap; and a supporting lug for said plate positioned in suitably spaced relation between said plate and said strap, said lug being so formed and positioned for electrodes of respective polarities as to assume abutting relation to a corresponding lug of another such electrode of opposite polarity mounted in intended relation thereto in an adjoining cell of a battery, so as to suitably space the plates of such electrodes and to position said strap parallel to and for suitably engaging a corresponding strap of such other electrode, whereby said strap will not be so positioned for a corresponding strap of another similarly mounted electrode of like polarity.

1,388,531. MOTOR-FUEL. ELBRIDGE W. STEVENS, Baltimore, Md., assignor to Chemical Fuel Company of America, Inc., Louisville, Ky., a Corporation of Delaware. Filed Mar. 9, 1920. Serial No. 364,387. 2 Claims. (Cl. 44—9.)

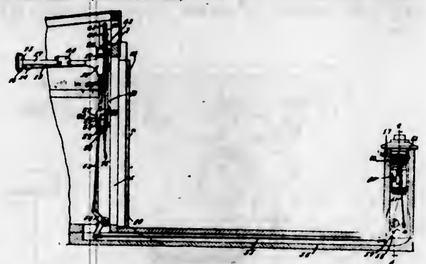
1. As a new motor fuel adapted for the same purposes as gasolene, a mixture containing a petroleum oil, in admixture with ethyl alcohol, methyl-ethyl ether and an oily body agent serving to blend the alcohol and oil and retain the ether.

1,388,532. FAUCET-LOCK. THEODORE G. STRATER, Brookline, Mass. Filed Aug. 4, 1919. Serial No. 315,056. 3 Claims. (Cl. 251—165.)



1. A valve comprising a valve casing, a valve plug rotatably mounted therein having a longitudinal chambered and transversely slotted stem and a winged handle, a locking member pivotally mounted in said stem having a handle extending through said slot and turned upwardly adjacent said winged handle, whereby it may be conveniently grasped with said winged handle, said casing having a recess adapted to receive said locking member when the valve is in closed position and a spring in said chambered stem normally tending to force said locking member into engagement with said recess.

1,388,533. DOOR-OPERATOR. GEORGE T. VAN HORN, Nutley, N. J. Filed Nov. 14, 1919. Serial No. 337,910. 2 Claims. (Cl. 268—9.)



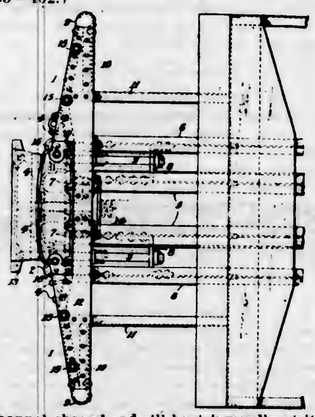
1. In combination with opposed hinged closures, an operating mechanism including rods having connection with the closures, an operating rod having connection with the rods, one of said rods including a sectional tubular portion, the sections of the tubular portion being normally held out of contact, means for forcing the sections together, for causing one closure to closed prior to the closing of the other closure, and means for releasing the closures.

1,388,534. MOLD FOR INGOTS AND OTHER HEAVY STEEL CASTINGS. ROWLAND VILLAGE, Ecclesall, Sheffield, England. Filed Jan. 26, 1921. Serial No. 440,094. 3 Claims. (Cl. 22—147.)



1. The combination with a mold for ingots and other heavy castings of a feeder head in the form of a detachable annular fire-place whose inner walls to extend the mold feed opening are integral with the fire-place, and are formed with undercut projections securing a renewable refractory lining inside the central opening of the feeder head, substantially as specified.

1,388,535. PLATFORM END SILL. WILLIAM VOSS, Wilmington, Del., assignor to American Car and Foundry Company, New York, N. Y., a Corporation of New Jersey. Filed June 25, 1920. Serial No. 391,596. 5 Claims. (Cl. 105—402.)



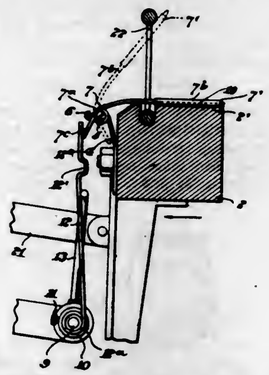
1. A channel-shaped end sill bent inwardly at its center, a buffer casting fitted to said bent portion and end castings carried by said sill.

1,388,536. PENCIL. CHARLES E. WEHN, Alameda, Calif., assignor to Listo Pencil Company, Alameda, Calif., a Corporation of California. Filed Feb. 9, 1920. Serial No. 357,390. 9 Claims. (Cl. 120—18.)



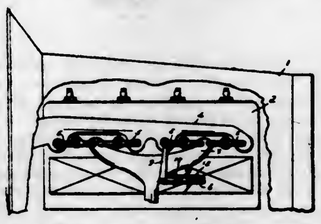
9. A pencil of the character described comprising a pair of tubular shell sections of approximate equal length, a comparatively short intermediate tubular section connecting the same, a nut within the intermediate section supported thereby and turnable therein, a screw rod extending through the nut and entering the tubular shell sections, a flattened portion on the rod extending from end to end thereof, an end plate secured in the intermediate tubular section, an opening formed in said plate forming a guide for the screw rod and securing the screw rod against turning movement, a plunger on the forward end of the screw rod and a lead receiving member carried by one of the tubular shell sections into which the plunger rod extends.

1,388,537. LOOM ATTACHMENT. JULIUS ALBERT WEITHAASE, Philadelphia, Pa. Filed Nov. 18, 1919. Serial No. 338,834. 7 Claims. (Cl. 139—74.)



1. In a loom, the combination with the lay and shuttle mechanisms, of bearings at the respective ends of the lay, pins carried by said bearings, levers fulcrumed on said pins so as to permit arms thereof to press against said lay the filling threads thrown by said shuttle mechanism, springs for effecting the engagements of said arms and means relative to which said lay is movable for engaging said levers and retracting said arms.

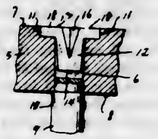
1,388,538. MANIFOLD-HEATER FOR AUTOMOBILES. HARRY J. WHEELER, Kansas City, Mo. Filed Dec. 13, 1919. Serial No. 344,726. 1 Claim. (Cl. 263—5.)



A manifold heater for automobiles, consisting of an open trough-shaped liquid fuel receptacle having an end basin and a vertically extending arm adapted for attaching

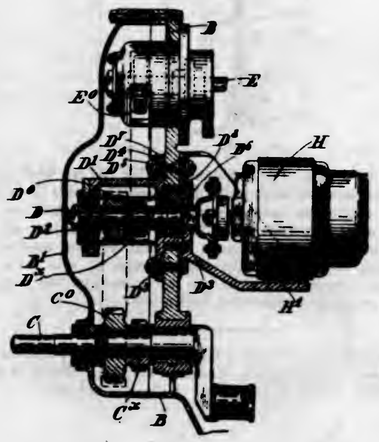
on the manifold, and a portable burner member lodged in the trough of said receptacle and extending into the basin therein, said burner member comprising a rolled pad of non-combustible material which is rolled in a perforated sheet of metal to form a wick.

1,388,539. HANDLE-SECURING WEDGE FOR TOOLS. ARTHUR H. WHITE, Pittsburgh, Pa. Filed June 24, 1920. Serial No. 391,335. 2 Claims. (Cl. 306—33.)



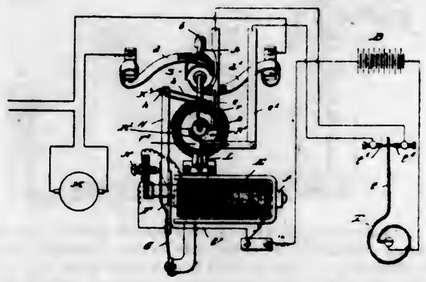
1. A device of the character described comprising a tool head having an eye adapted to receive a handle, the upper portion of the eye being larger than the lower portion, the upper portion of said head having registering dovetail slots communicating with the eye and a malleable tapering wedge, lugs projecting from the ends of the wedge, the upper portion of each lug projection above the upper surface of the wedge, said wedge being forced into the handle within the eye, said lugs being expanded into the dovetail slots, the upper portion of each lug lying flush with the upper surface of the wedge and tool head.

1,388,540. IGNITION AND LIGHTING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. ERNEST ALFRED WISE, Caversham, Reading, England, assignor to Herbert Merton, Caversham, Reading, England. Filed Apr. 21, 1920. Serial No. 375,585. 7 Claims. (Cl. 290—1.)



1. The combination with an internal-combustion engine-casing, a driving-shaft extending through one wall thereof, a dynamo-shaft, a magneto-shaft, all of which shafts are disposed parallel to each other but not all in the same plane, and whereof one is situated intermediate between the driving-shaft and the other shaft, and chain-gearing connecting all said shafts together on the same side of said wall, of a bearing-bracket adjustably mounted on said casing so that it can be bodily adjusted parallel to itself in any direction, which brackets has two bearings for the intermediate shaft situated one on either side of said chain-gearing, substantially as set forth.

1,388,541. CIRCUIT-CONTROLLING APPARATUS. HOMER C. WOODBURY, Providence, R. I., assignor to John Scheminger, Jr., Providence, R. I. Filed Feb. 13, 1919. Serial No. 276,849. 4 Claims. (Cl. 172—288.)



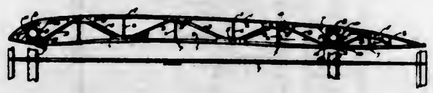
1. In circuit controlling apparatus for regulating the supply of electric energy to a motor-operated hydrocarbon burner, the combination of a rotary switch in the circuit of said motor, an electro-magnetic relay for operating said switch to effect the making or breaking of the motor circuit, a thermostat for controlling the relay circuit, and a second rotary switch also operated by the relay to break the relay circuit, after the operation of making or breaking the motor circuit shall have been completed, substantially as described.

1,388,542. WASHING-MACHINE. JOHN J. ZOFSAK, Greensburg, Pa. Original application filed Nov. 18, 1916, Serial No. 132,182. Divided and this application filed Nov. 19, 1917. Serial No. 202,875. 7 Claims. (Cl. 141—9.)



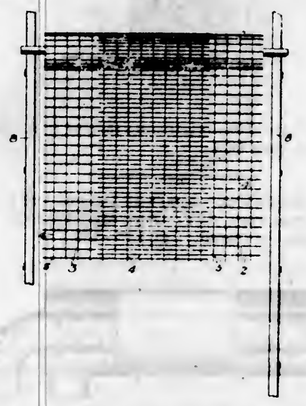
3. In a washing machine, an inclosing receptacle, a removable frame comprising a perforated cup holding member, and a hinged brush supporting member surmounted on the same, a number of vertical rotary brushes mounted in the said brush supporting member, adapted to revolve within the cups; and means for operating the said vertical brushes.

1,388,543. RIB FOR AIRPLANE-WINGS AND THE LIKE. WALTER H. BARLING, London, England. Filed July 3, 1920. Serial No. 393,900. 11 Claims. (Cl. 244—31.)



1. In a rib of the character described, upper and lower members having inwardly extending longitudinal flanges, diagonal bars extending between said upper and lower members, one of said bars having a relatively large intermediate portion and having its ends reduced in thickness adjacent to said flanges and arranged in line with said flanges, and means for attaching the ends of said bars to the respective flanges.

1,388,544. CONCRETE-ROADWAY-REINFORCING FABRIC. EDWARD L. BENEDICT, Pittsburgh, Pa., assignor of one-half to Herbert E. Marks, Glen Osborne, Pa. Filed Jan. 10, 1920. Serial No. 350,514. 5 Claims. (Cl. 94—8.)



1. A concrete roadway reinforcing fabric, comprising comparatively heavy transverse reinforcing elements adapted to be laid transversely of the roadway and comparatively light longitudinal flexible tie wires, substantially as described.

1,388,545. SELF-INTRENCHING SUBSURFACE-LAND-TORPEDO. WILLIAM J. BOHAN, St. Paul, Minn. Filed Dec. 3, 1917. Serial No. 205,087. 17 Claims. (Cl. 262—1.)



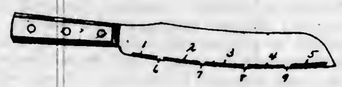
14. A self-contained, self-intrenching subsurface machine having an excavating device in front, a dirt packing device at the rear, means for transferring the earth from the front to the rear of the machine, a motor carried by said machine, and connections for driving the moving parts of said machine from said motor.

1,388,546. NAIL-POLISH. JOSEPH BRUECK, New York, N. Y. Filed Sept. 3, 1919. Serial No. 321,446. 2 Claims. (Cl. 167—9.)

1. A nail polish containing acetone and amyl acetate, and gun cotton dissolved therein.

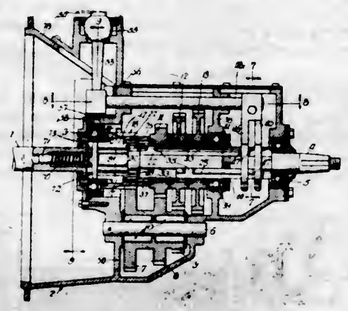
2. A nail polish comprising the following ingredients in the proportions stated: acetone four gallons, amyl acetate one gallon, gun cotton thirty-two ounces, and alkanet root approximately four ounces.

1,388,547. CUTTING-TOOL. JOSEPH E. BURNS, Syracuse, N. Y. Filed Sept. 25, 1919. Serial No. 326,364. 2 Claims. (Cl. 30—9.)



1. An edged tool provided with a plurality of series of obliquely disposed grooves forming a plurality of series of relatively fine accurately shaped ground teeth, the grooves of each series being inclined with respect to the edge of said tool in a direction offset to the direction of inclination of the adjacent series of ground grooves.

1,388,548. VARIABLE-SPEED-TRANSMISSION MECHANISM. LEON J. CAMPBELL, Buchanan, Mich. Filed Sept. 10, 1919. Serial No. 322,837. 16 Claims. (Cl. 74—59.)



1. A variable speed transmission mechanism having in combination, a driving shaft, a gear on and connected with said shaft, a driven shaft having grooves extending lengthwise thereof, speed gears loose on said driven shaft, a lay shaft, gears on said lay shaft and constantly in mesh with the gears on the driving and driven shafts, respectively, keys rockably mounted in said grooves and arranged so that there is a separate key for each of certain of said speed gears for locking the same to said driven shaft, and means, including a shift lever, for rocking the keys independently of each other into and out of locking engagement with their respective speed gears.

1,388,549. GLOVE CONSTRUCTION. ROBERT N. CARSON, San Francisco, Calif. Filed Feb. 4, 1920. Serial No. 356,137. 9 Claims. (Cl. 2—9.)



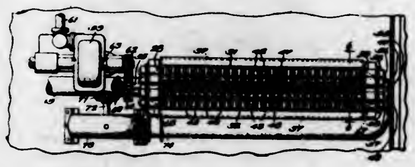
1. The combination in a glove, of a palm member having slits cut therein convergent from the ends to an apex located adjacent to the inside line of the glove, a thumb member having semi-circular arched tops and curved lower ends, said arches and curves terminating respectively at points on opposite sides of a line central to the member, and said member being folded and stitched along the meeting edges and with the wider curve of the lower end within the slit of the palm member.

1,388,550. DIRECTION-INDICATOR FOR AUTOMOBILES. OWEN C. COOK, King county, Wash. Filed Feb. 19, 1920. Serial No. 359,999. 8 Claims. (Cl. 116—50.)



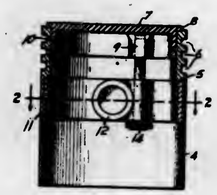
1. A direction indicator for automobiles comprising a laterally projectable support and a signal arm secured thereon to move relative thereto into a plurality of predetermined signaling positions, and stops for positioning said signal arm in each signaling position.

1,388,551. FUEL-PULVERIZING APPARATUS. JOSEPH H. COOPER, Chicago, Ill. Original application filed July 20, 1918, Serial No. 245,803. Divided and this application filed Apr. 7, 1919. Serial No. 288,007. 4 Claims. (Cl. 83—11.)



1. In a fuel pulverizer, the combination with spaced pulverizing disks each comprising a hub and a plurality of radially extending frusto-pyramidal projections, of a shaft upon which said disks are fixed, and a rigid wedge shaped arm positioned between said disks and substantially filling the space defined by the disks and the shaft.

1,388,552. HIGH-SPEED PISTON. JOHN W. CORSER, Los Angeles, Calif. Filed Nov. 5, 1919. Serial No. 335,805. 1 Claim. (Cl. 74—108.)



A piston comprising a cylindrical shell of hard metal having an internal diameter reduced at the top to form an internal shoulder for a wrist pin ring, a head of light weight metal detachably mounted on said shell and having a portion telescoping within said shell so that it may be turned, a wrist pin ring of light weight metal having diametrically disposed openings extending therethrough forming seats for a wrist pin mounted within said shell so as to turn and abutting said shoulder, an adjustable means detachably securing said head to said ring.

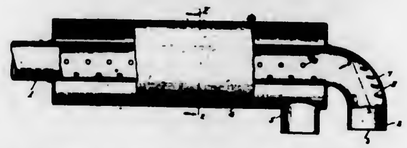
1,388,553. KNOTTER. ALBERT EARL CRANSTON, Spokane, Wash. Filed Oct. 29, 1920. Serial No. 420,519. 6 Claims. (Cl. 140—101.)

1. A knotter comprising, a stationary member and a movable member, means carried by the movable member and coöperating with the confronting face of the stationary member for receiving the two ends of a wire, bending and gripping the same between the members so that they will move with the movable member to effect a twisting of



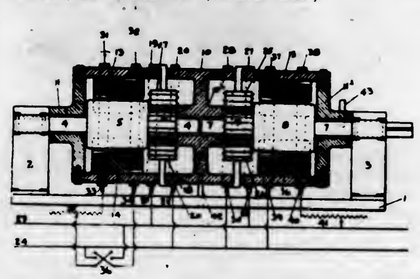
the wire and an ultimate releasing thereof in a manner to maintain the ends bent.

1,388,554. MUFFLER. HARRY F. DUBBEN and FRANK B. EASTON, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,480. 2 Claims. (Cl. 137—160.)



1. A muffler for exhaust gases comprising an exhaust pipe having an outlet and a casing surrounding said pipe, and pipe passing through the casing but communicating with the interior of same, said casing having an outlet for the exhaust gases adjacent the outlet of the pipe, whereby the gases pass from the exhaust pipe through both said outlets without substantial change of direction, and back pressure due to said gases, is eliminated.

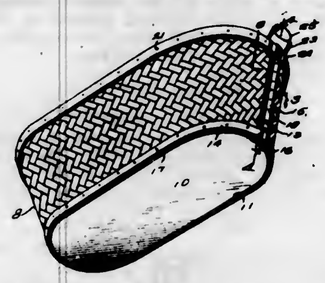
1,388,555. DYNAMO-ELECTRIC MACHINE. HERBERT S. EADES, Philadelphia, Pa. Filed June 29, 1920. Serial No. 392,854. 8 Claims. (Cl. 172—239.)



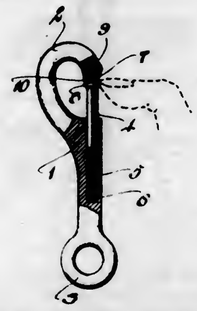
1. A multiple dynamo electric machine comprising a plurality of armature members, a field frame having a field for each of said armatures, said frame being adapted to rotate relative to both of said armatures, means for locking said frame against rotation, and means for locking said frame to rotate integrally with one of the armatures.

1,388,556. BASKET. HENRY R. GARRITSON, Logansport, Ind. Filed Apr. 9, 1920. Serial No. 372,527. 3 Claims. (Cl. 217—122.)

1. The herein-described method of producing a basket, which consists in weaving a narrow elongated strip of relatively short diagonal splints, the intersecting splints being disposed at substantially right angles to each other and at substantially an angle of 45° to the longitudinal axis of the strip, stamping a plurality of curved body portions from the strip in end to end relation, assembling one of these body portions above a bottom by extending the body portion around the bottom with its ends overlapping, securing the assembled body portion to the bottom, securing the overlapping ends together, and reinforcing the upper edge of the assembled body portion.

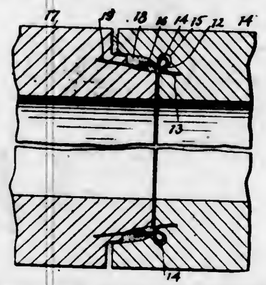


1,388,557. SNAP-HOOK. KARL F. GERHARD, Hatton, Wash. Filed Aug. 23, 1920. Serial No. 405,457. 1 Claim. (Cl. 24—239.)



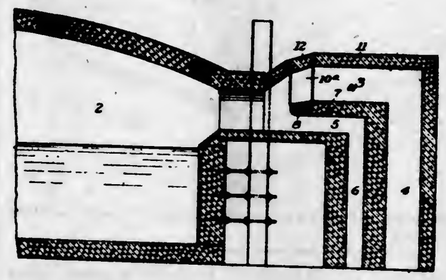
The combination in a snap hook with its hollow shank, spring projected pin, and hook-end having a socket to receive the pin point, of an annular head on the pin larger than the socket and of the same peripheral outline as the hook-end and complementary thereto to form a continuous surface with the inner portion of the hook-end, and said hook end having a beveled outer face to expose a portion of the pin head for thumb pressure, for the purpose described.

1,388,558. EXPANSIBLE-JOINT CONSTRUCTION. CHARLES GILMAN, Plainfield, and WALTER C. PARMLEY, Montclair, N. J. Filed Jan. 27, 1919. Serial No. 273,276 11 Claims. (Cl. 72—53.)
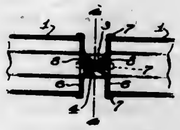


1. The combination of two adjacent bodies of concrete, one of said bodies having an inwardly extending recess, of an expansion joint between said bodies, said joint comprising a continuous strip of impervious material having an open rounded fold between the ends thereof, the ends being anchored with respect to the two bodies to form a bridge between the bodies, the fold in the strip extending within the aforesaid recess.

1,388,559. PORT CONSTRUCTION FOR FURNACES. ARLIE H. GOODMAN, Pittsburgh, Pa., assignor to Blaw-Knox Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1919. Serial No. 336,939. 2 Claims. (Cl. 122—6.5.)



1. The combination with a furnace having an air port, a gas port, and a refractory wall between said ports, of a hollow water cooled member extending transversely across the furnace and forming an inward continuation or extension of said wall, said member being seated at its ends in the side walls of the furnace structure, and said side walls, together with the furnace roof, above said member, each having a section which can be bodily removed to permit of removal and replacement of said member, substantially as described.

1,388,560. FURNACE-CLEANER. JAN DE GRAFF, Detroit, Mich. Filed Oct. 18, 1919. Serial No. 331,527. 3 Claims. (Cl. 287—101.)



3. A flexible device comprising a plurality of tubular members, pins pivotally connecting said members, and caps at the ends of said members and having prongs engaging the edges of said members, said caps having pressed out portions engaging said pins.

1,388,561. DISPLAY-CARD. ROBERT E. GROTE, St. Louis, Mo. Filed Feb. 13, 1920. Serial No. 358,438. 1 Claim. (Cl. 211—34.)

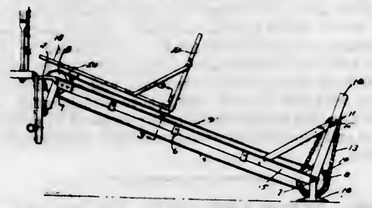
A display card for strings of tinsel, said card comprising an elongated sheet of cardboard slitted near its upper end to provide a flexible upright hanger tongue whereon the strings of tinsel may be folded, said upright hanger tongue being deflected from the body of the cardboard to receive the folded portion of the tinsel, and lower portions of said card being slitted to provide a lower retaining tongue and an intermediate retaining tongue between said lower tongue and the hanger tongue, said retaining tongues being arranged at an angle to said hanger tongue and

extended in opposite directions from opposite sides of the tinsel receiving space, so as to overlie lower portions of



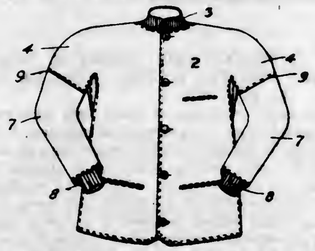
the tinsel and prevent free displacement thereof in either direction.

1,388,562. PIANO-MOVER. DAVID F. HAGERTY, Sioux City, Iowa. Filed June 6, 1919. Serial No. 302,235. 1 Claim. (Cl. 187—10.)



A device of the class described including side members, support engaging members diverging from one end of each side member, connections between the side members, transverse shafts carried by the end portions of the side members, supports detachably engaged by the end portions of one of the shafts, pulleys on the shafts, endless belts mounted on the pulleys cross strips connecting the belts, a carrier secured on the cross strips and having an upstanding portion, said carrier being parallel with the belt, an upstanding portion fixedly connected to the side members at one end thereof and means carried by said last mentioned upstanding portion and one of the shafts for driving the belts to move the carrier longitudinally of the side members.

1,388,563. SLEEVE-VEST. HARRY C. HANSON, St. Paul, Minn., assignor to Guiterman Bros., St. Paul, Minn., a Corporation of Minnesota. Filed July 31, 1919. Serial No. 314,403. 2 Claims. (Cl. 2—61.)



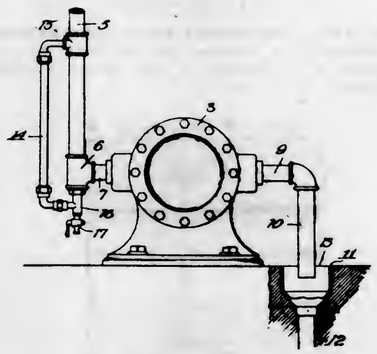
1. A garment comprising a body having integral shoulder extensions projecting beyond and below the shoulders, sleeves attached to the shoulder extensions, the side portions of the body adjacent and beneath the shoulder extensions being cut-away and the cut-away openings extending throughout the underarm portions of the respective extensions, and gores closing the cut-away openings and attached to the adjacent sleeves.

1,388,564. EXPANSIBLE PLUG FOR WELLS. WILLIAM G. HAYNES, Coffeyville, Kans., assignor of one-half to Fred E. Remington, Coffeyville, Kans. Filed Nov. 29, 1918, Serial No. 264,628. Renewed Apr. 12, 1920. Serial No. 373,389. 11 Claims. (Cl. 166—13.)



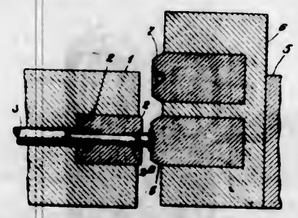
1. An expansible plug for wells, comprising a telescopic section composed of a polygonally sided wedge pin or core and a plurality of oppositely tapered staves encircling the wedge pin and having angular grooves on their inner side faces fitting the angular faces of the wedge pin.

1,388,565. VACUUM-DISCHARGE APPARATUS. HERMAN HEUSER, Evanston, Ill. Filed Nov. 21, 1919. Serial No. 339,772. 1 Claim. (Cl. 103—79.)



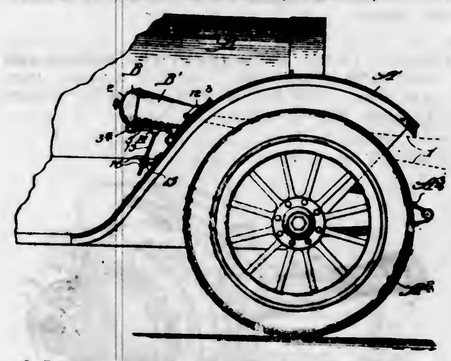
In combination, a discharge line, a vacuum pump, the intake of which is directly connected to the discharge line and a liquid-gage connected to said discharge line at points above and below the intake of the vacuum pump.

1,388,566. RIVET MANUFACTURE. HENRY C. HINCHCLIFF, Brooklyn, N. Y. Filed May 3, 1920. Serial No. 378,464. 7 Claims. (Cl. 10—12.)



6. In a machine of the character described, a rivet blank receiving die adapted to form a rivet body having a portion of a relatively reduced cross sectional area, and means adapted for positioning, dividing, and extruding the reduced portion of the rivet body.

1,388,567. LAMP FOR MOTOR-VEHICLES, &c. PETER M. HOFFMAN, Des Plaines, Ill. Filed Feb. 16, 1920. Serial No. 358,831. 10 Claims. (Cl. 240—7.)



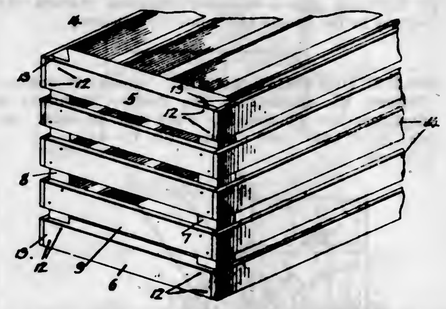
6. The combination with a front fender of a motor-vehicle, said fender having a perforation in its rear wall, of a lamp device comprising a tubular shield having its front end disposed at said perforation, whereby the fender will serve as a shield-extension, and a lamp-unit mounted in the rear portion of said shield.

1,388,568. METHOD OF MANUFACTURING DRAWN LINKS FOR ELECTRIC FUSES. SLAUGHTER W. HUFF, New York, N. Y. Filed Mar. 17, 1919. Serial No. 283,116. 2 Claims. (Cl. 200—135.)



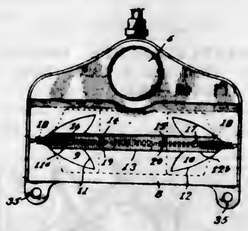
1. The process of forming drawn wire links of the character described, which consists in flattening out an intermediate portion of the wire link by pressure to the desired thickness; and then cutting off a transversely extending portion created thereby to leave a remaining portion of reduced sectional area limited in both lateral and longitudinal extent and corresponding to the carrying capacity desired.

1,388,569. CRATE. JOHN HUGHES, Pullman, Mich., assignor to Pullman Manufacturing Company, Pullman, Mich., a Corporation of Michigan. Filed Oct. 13, 1920. Serial No. 416,626. 2 Claims. (Cl. 217—43.)



1. A packing crate including an end frame comprising a bottom and top and two upright cleats each of triangular form and cross section, the bottom and top cleats each being positioned with one flat side outwardly, each of said bottom and top cleats being further provided with a triangular pocket in each end to receive the upright cleats, one wall of each pocket being extended parallel with the outer face of said bottom and top cleats and adapted for engagement with the outer face of said upright cleats while the remaining wall of each pocket being extended at an angle and adapted for engagement with the angular inner faces of said upright cleats, end slats connecting the upright cleats upon their outer faces, said bottom longitudinal cleats secured respectively to the flat side faces of the upright cleats and the flat lower faces of the bottom cleats.

1,388,570. DIRECTION-INDICATOR. HARRY H. JEWELL, Oakland, Calif. Filed Sept. 9, 1920. Serial No. 409,181. 5 Claims. (Cl. 116—44.)



1. A direction indicator comprising a plate having an elongated slot formed therein, a pair of plates always forming a partial closure for the slot and slidable along the longitudinal axis of the slot, and means for imparting a sliding movement to the plates independent of each other and in unison, said plates by their movement with relation to the slot and by the different positions assumed forming a series of visible signals.

1,388,571. TOOL-HANDLE. GEORGE T. JOHNSON, Waco, Tex. Filed Mar. 10, 1921. Serial No. 451,189. 1 Claim. (Cl. 145—61.)

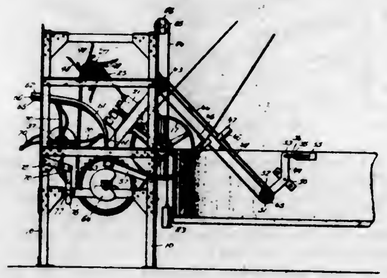
A tool handle having a slit extending longitudinally and edgewise thereof terminating at its inner end in diagonally opposed shoulders, the said handle having a transverse aperture, a reinforcing element comprising a

plate having an aperture alining with the aperture of the handle and a recess in its end conforming to the shoul-



ders, whereby the end of the reinforcing element contacts the shoulders, and a fastening extending through the apertures of the handle and reinforcing element.

1,388,572. DEHAIRING-MACHINE. ROBERT E. JORDAN, Chicago, Ill., assignor to The Packers Machinery & Equipment Co., Chicago, Ill. Filed Sept. 20, 1920. Serial No. 411,367. 109 Claims. (Cl. 17—11.)

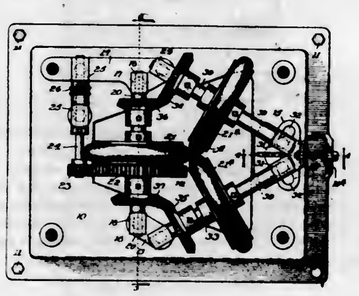


1. In a machine of the character described carcass supporting means, dehairing elements adapted to operate on the carcass while in position on said supporting means, and means for automatically ejecting said carcass independent of said supporting means.

1,388,573. ANESTHETIC COMPOUND. OLIVER KAMM, Urbana, and ERNEST H. VOLWILER, Chicago, Ill. Filed June 14, 1920. Serial No. 388,803. 2 Claims. (Cl. 23—24.)

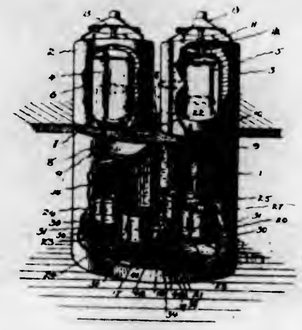
1. As a new article of manufacture, diallyl amino alcohol ester of an aromatic acid containing a benzene nucleus.

1,388,574. PEANUT-BLANCHER. GUSTAVE C. KELLING, Chicago, Ill. Filed Aug. 6, 1920. Serial No. 401,706. 14 Claims. (Cl. 146—14.)



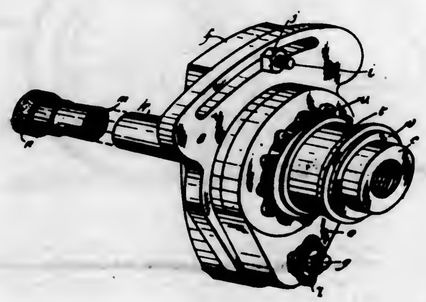
1. In a peanut blancher, a plurality of wheels set at an angle to each other and lying near each other at one point so as to grip a peanut placed therebetween, and means for feeding peanuts to the space between said wheels, said wheels being rotated at different peripheral speeds.

1,388,575. FURNACE. CHARLES F. KENWORTHY, Waterbury, Conn. Filed Sept. 26, 1919. Serial No. 326,655. 29 Claims. (Cl. 266—4.)



1. In an apparatus of the class described, a conveyer; and automatic mechanical means for effecting self-rotation thereof.

1,388,576. LATHE ATTACHMENT FOR BORING AND GRINDING CYLINDERS. CALVIN I. KEPHART, Portland, Oreg. Filed Jan. 20, 1920. Serial No. 352,876. 7 Claims. (Cl. 51—261.)

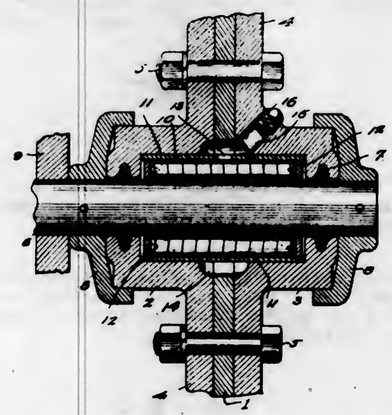


1. In a lathe attachment the combination of, a face-plate provided with a lateral projection adapted for mounting the face-plate on the spindle of the lathe, a shaft journaled in said face-plate to one side of the axis of rotation of said spindle, an offset-plate carried by said shaft and having a sliding bearing on said face-plate, the bearing face of the offset plate being provided with a recess, means for adjustably holding the offset-plate in place on the face-plate, a hollow arm projecting from said offset-plate, a spindle journaled in said arm, means operatively connecting the last mentioned spindle with said shaft, such means being housed in said recess, and means carried by said face plate for rotating said shaft independently simultaneously with the rotation of the face-plate by the lathe spindle.

1,388,577. HUB FOR ROTARY COLTERS. WILLIAM R. KINNEY, Reading, Mich. Filed Mar. 25, 1920. Serial No. 368,520. 3 Claims. (Cl. 64—26.)

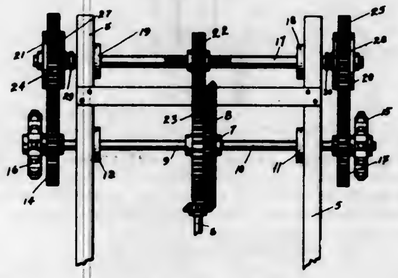
1. In combination a colter, hub sections at the sides of the colter, each consisting of a hollow portion and a flange, the outer ends of the hollow portions having openings to receive the axle and the walls of the said openings being grooved to receive a packing, the hub opening being enlarged to receive a roller bearing and further en-

larged to provide an annular oil chamber from which extends a feed opening in which is fitted a normally closed



element and a roller bearing disposed within the enlarged portion of the hub opening.

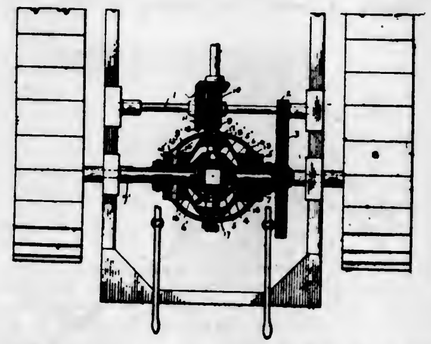
1,388,578. TRACTOR. ALBERT L. KINS, Farmington, Calif., assignor of one-half to Lloyd H. Housten, Farmington, Calif. Filed Mar. 31, 1919. Serial No. 286,437. 1 Claim. (Cl. 180—17.)



In a motor propelled vehicle, a pair of driving shafts each adapted to operate a driving wheel or the like, a differential mechanism between said shafts, power means actuating said differential a secondary shaft parallel with said driving shafts and driven by said differential a gear train from each of said driving shafts to gears loosely mounted on said secondary shafts, and independent clutch means between said secondary shaft and said loosely mounted gears, as and for the purpose set forth.

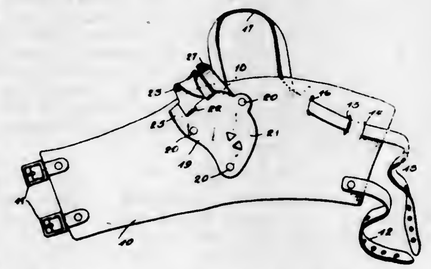
1,388,579. TURNING MECHANISM FOR TRACTORS AND THE LIKE. ALBERT L. KINS, Farmington, Calif. Filed Aug. 18, 1919. Serial No. 318,089. 2 Claims. (Cl. 180—17.)

1. In driving mechanism for motor propelled vehicles a pair of alined axles, a pair of gears loosely mounted on a sleeve, said sleeve carried on both axles, a driving member having a hub extension rotatable about said sleeve, independently operable clutch means between each of said hub extensions and said gears, said driving member inclosing differential pinions interiorly disposed and engaging both of said gears and carried by a central frame connecting said sleeves and each of said pinions having a shaft and another pinion, the last named pinion engaging two opposite faced pinions which are mounted one on each of said axles, and means constructed and adapted



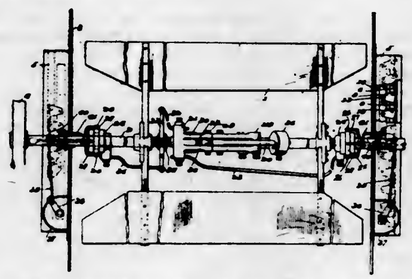
to drive the sleeve at a different rate from the driving member.

1,388,580. HUSKING-HOOK. JOSEPH M. KOZIOL, Pender, Nebr. Filed Apr. 22, 1921. Serial No. 463,649. 3 Claims. (Cl. 130—4.)



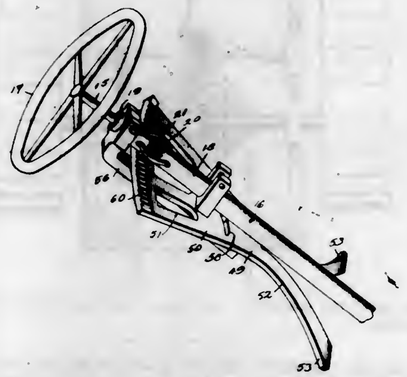
1. A husking hook comprising, in combination, a member adapted to fit the hand, a plate carried by said member, a hook hinged to said plate, a bifurcated resilient member secured to said plate, one portion thereof providing a husk slitting knife and the other portion a spring to press said hook forwardly.

1,388,581. FAN-BLAST REGULATOR. ALFRED LARSON, Scobey, Mont., assignor of one-half to Gustav Ole, Scobey, Mont. Filed May 1, 1920. Serial No. 378,163. 6 Claims. (Cl. 230—11.)



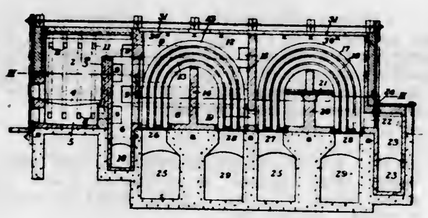
1. The combination with a fan, and a fan casing having an opening in its side, of a shutter mounted on the fan casing over the opening therein, and means operatively connected with the fan for actuating said shutter to open or close the same as the speed of the fan shaft decreases or increases.

1,388,582. MEANS FOR OPERATING THE STEERING-POSTS OF AUTOMOBILES. EDWARD P. LE COMPTE, Park City, Utah. Filed Oct. 10, 1919. Serial No. 329,672. 5 Claims. (Cl. 74—33.)



1. The combination with the steering post and housing of an automobile, of a gear secured to the steering post, a lever like relatively rigid member pivotally connected with the housing and extending longitudinally thereof, the lower end of the member being adapted to terminate near the floor of the automobile and to be engaged by the lower limbs and shifted generally horizontally and laterally, and a rack carried by the member and engaging the gear to rotate the same.

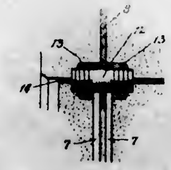
1,388,583. AIR-HEATING FURNACE. LEIF LEE, Youngstown, Ohio. Filed Mar. 1, 1921. Serial No. 448,929. 9 Claims. (Cl. 126—104.)



1. An air heating furnace, comprising a pair of combustion chambers arranged side by side, a pair of heating chambers located side by side in front of the combustion chambers, a longitudinally extending partition wall intermediate the combustion chambers, said wall having a plurality of flues therein arranged one above another, flues intermediate the combustion chambers and the heating chambers and with which the flues in the partition wall communicate, and a plurality of air heating pipes or tubes arranged in each of the air heating chambers, said flues communicating with the forward portions only of the heating chambers, and there being baffle means to prevent entrance of the products of combustion to the rear portions of said chambers, substantially as described.

1,388,584. ARCH-BRIDGE CONSTRUCTION. JAMES B. MARSH, Des Moines, Iowa. Filed Apr. 11, 1918. Serial No. 227,860. 13 Claims. (Cl. 72—56.)

1. In a bridge construction a hanger formed of reinforced concrete, and means in the plane of intersection of said hanger with the adjacent parts of said bridge connecting said hanger to said adjacent parts in such manner as to permit movement of the hanger with relation to said parts to prevent rupture of the concrete.

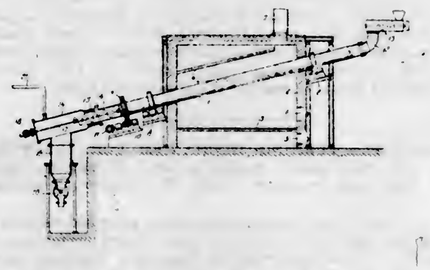


1,388,585. ADJUSTABLE FLUSH-VALVE-SEAT-CUTTING TOOL. JAMES MARTINO, White Plains, N. Y. Filed Apr. 23, 1920. Serial No. 375,998. 7 Claims. (Cl. 90—12.5.)



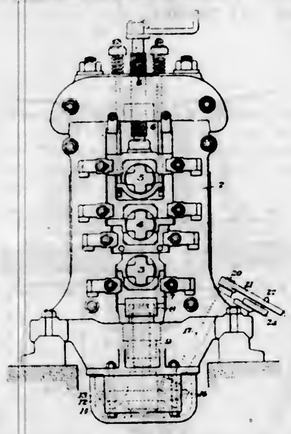
1. In a cutting device for the valve of a flush tank, a tool for cutting the flush valve seat, an operating stem secured thereto, a frame comprising brackets within which said operating stem has its bearings, and means for adjustably securing said frame to the overflow pipe for the flush valve.

1,388,586. PROCESS OF MANUFACTURE OF ALKALI METAL CYANID. FLOYD J. METZGER, New York, N. Y. Filed Mar. 16, 1918. Serial No. 222,812. 6 Claims. (Cl. 23—13.)



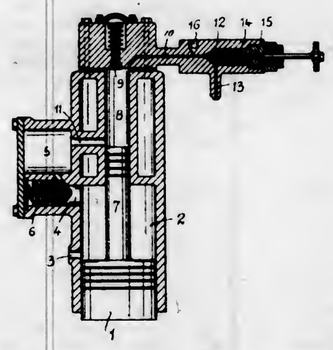
1. The process of producing alkali metal cyanids, which consists in filling the reaction zone of a retort with a mixture of an alkali and a carbonaceous material, passing a nitrogenous gas through said mixture, and tumbling the mixture while subjecting it to a high heat; substantially as described.

1,388,587. ROLL-ADJUSTING MECHANISM. RICHARD W. MOSSE, Coraopolis, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Jan. 21, 1920. Serial No. 353,040. 4 Claims. (Cl. 80—56.)



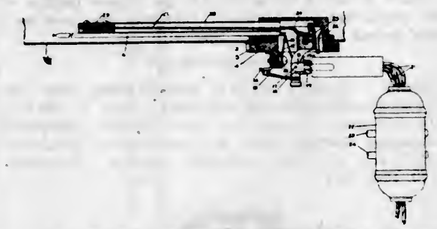
3. The combination with a roll housing and a mill roll mounted for vertical movement therein, of an adjusting shaft for said roll extending upwardly through the base of the housing, an actuating shaft extending obliquely in a lateral and upward direction through the base of the housing, an internal bevel gear on said adjusting shaft and said actuating shaft having a pinion engaging said internal gear, and means for operating the actuating shaft, said gearing being below the housing proper, and a removable cap inclosing said gearing, said cap having a step-bearing for the adjusting shaft, substantially as described.

1,388,588. FUEL-INJECTING APPARATUS FOR INTERNAL-COMBUSTION ENGINES. JOHAN KARLSEN MÖYSTAD, Christiania, Norway. Filed July 24, 1917. Serial No. 182,449. 4 Claims. (Cl. 123—33.)



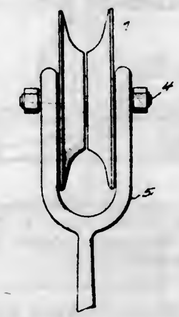
1. In a fuel injector for engines, an air compressor having an outlet conduit, a valve seating and housing formed co-axially with said conduit, a cylindrical valve mounted as a sliding fit in such housing and normally closing said conduit, the head of said valve being directly operated upon by compressed air for opening said conduit, a fuel supply inlet communicating with said conduit between the air compressor and valve housing and an outlet for air and fuel normally closed by said valve, such that the air and fuel are deflected to a minimum extent and pass exteriorly of the valve body and valve seating.

1,388,589. HEATING-ELEMENT-CONTROLLING DEVICE. PAUL M. MUELLER, Erie, Pa., assignor to American Sterilizer Company, Erie, Pa., a Corporation of Pennsylvania. Filed Mar. 24, 1920. Serial No. 368,246. 10 Claims. (Cl. 219—20.)



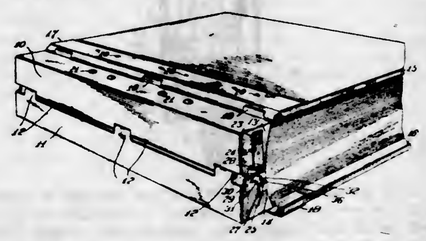
1. In a heating element controlling device, the combination of a heating element; an inclosing casing; a thermally sensitive element in direct thermal relation with the casing; a conductor leading to the heating element; a switch in the conductor; and means controlled by the thermal element opening the switch.

1,388,590. TROLLEY-WHEEL FOR ELECTRIC STREET-CARS. JULIO SOTO NAVARRO, Habana, Cuba. Filed Mar. 21, 1921. Serial No. 454,232. 2 Claims. (Cl. 191—59.)



1. A trolley wheel for electric cars comprising separate halves in disk form, both halves to be used mounted together on same axle, each half being free to rotate independently of the other, and means for maintaining said halves apart to insure independent rotation.

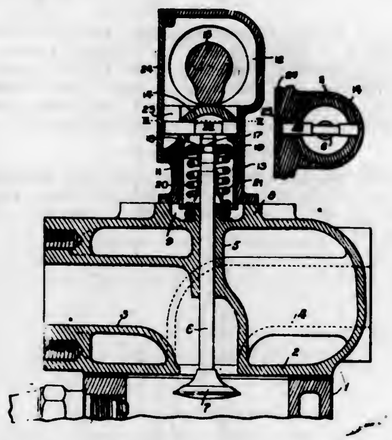
1,388,591. LOOSE-LEAF BINDER. CHARLES RUDOLPH NELSON, Chicago, Ill., assignor to C. R. & W. A. Nelson, Chicago, Ill., a Firm composed of Charles Rudolph Nelson and Wilbur A. Nelson. Filed Mar. 22, 1920. Serial No. 367,592. 3 Claims. (Cl. 129—17.)



2. A loose leaf binder comprising, separable portions having abutting edges, a resilient latch member secured to one of said portions and having an angularly project-

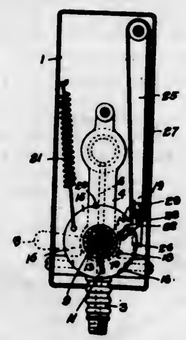
ing element passing through a slot therein, a connecting portion extending from the end of said element parallel with said binder portion past the abutting edges and a catch member projecting angularly from said connecting portion having a reduced neck, said other binder portion having a T-shaped recess therein, the narrow portion of said recess forming a passage adapted to pass said neck when sprung into alinement therewith.

1,388,592. TAPPET-VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES. EMIL A. NELSON, Detroit, Mich., assignor to E. A. Nelson Automobile Company, Detroit, Mich., a Corporation of Delaware. Filed July 19, 1918. Serial No. 245,739. 10 Claims. (Cl. 123—90.)



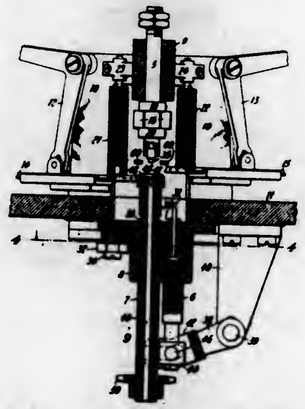
1. As a new article of manufacture, a tappet valve adjusting member having facets at different distances from the axis of said member adapted to be engaged by a valve operating member.

1,388,593. AUTOMATIC CUT-OFF FOR GAS-VALVES. ROBERT E. NEWELL, Irwin, Pa. Filed July 2, 1919. Serial No. 308,196. 8 Claims. (Cl. 67—117.)



1. In an automatic cut-off for gas burners, a valve plug and a valve bushing adapted to coöperate to open said valve and adapted to independently closed said valve, a member normally holding said bushing in closed position, means adapted to hold said bushing in open position and a thermostatically controlled hook for releasing said means.

1,388,594. MACHINE FOR ATTACHING STRING TO ENVELOPS AND THE LIKE. ABRAHAM NOVICK, New York, N. Y., assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 20, 1920. Serial No. 352,708. 5 Claims. (Cl. 93—61.)



1. In a machine of the character described the combination of an upper tool-carrying-plunger axially-slidable in a fixed bearing, a plurality of lower tool-carrying-plungers axially-slidable in parallelism with one another and with the upper plunger, one of said lower plungers being rotatable, means for bringing said lower plungers one at a time into axial alinement with said upper plunger, and means for sliding said upper plunger and that lower plunger in alinement therewith into coacting relation.

1,388,595. GUIDE FOR QUILL-WINDERS. JOHN A. OLSON, Paterson, N. J. Filed May 29, 1920. Serial No. 385,116. 4 Claims. (Cl. 242—157.)



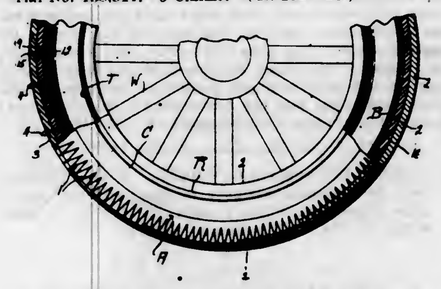
1. The combination with a quill winder embodying a tension wire and an eye detachably arranged thereon, said eye being provided with the usual guide opening and with an opening adapted to receive the end of the tension wire, of means for securing said eye to the tension wire, said means comprising a fastening element of wire secured to the tension wire engaging the guide opening of the eye.

1,388,596. HOG-RING. SAMUEL W. ORR, Green Valley, Ill. Filed Nov. 26, 1920. Serial No. 426,525. 2 Claims. (Cl. 119—135.)



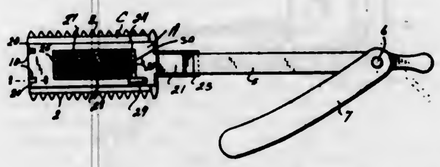
1. A hog ring in the form of an open loop having parallel prongs bent to an acute angle with the loop, the ends of said prongs being bent to form projections extending transversely to said prongs, said loop and projections being located on opposite sides of the plane of said prongs.

1,388,597. PROTECTING-ARMOR FOR TIRES. HARRY N. PAPPAS, Okmulgee, Okla. Filed May 11, 1921. Serial No. 468,511. 6 Claims. (Cl. 152—16.)



1. An internal armor for a tire casing embodying an expansible member adapted to coact with the tread portion of the casing and extend circumferentially thereabout, and means for expanding or contracting said member.

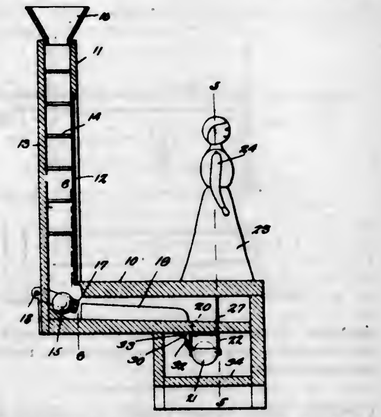
1,388,598. RAZOR. RICHARD E. PERKINS, Boston, Mass. Filed Sept. 4, 1920. Serial No. 408,171. 7 Claims. (Cl. 30—12.)



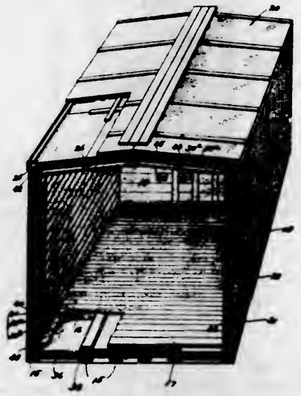
1. A razor of the class described comprising a guard member provided with a slot, a blade carrier overlying said guard member and also provided with a slot, a blade interposed between the guard member and the blade carrier, said blade being provided with a slot, a clamping member overlying the blade carrier and engaged with the guard member, a wing carried by the blade carrier and extending through the slots of the blade and guard member, a roller carried by the clamping member, said clamping member being provided with a slot through which the roller extends, and coacting means carried by the wing and the roller whereby the blade carrier is reciprocated upon rotation of the roller.

1,388,599. GAME. CHARLES J. PFEIL, Washington, D. C., assignor of one-half to Mrs. Catherine McGraw, Washington, D. C. Filed Sept. 25, 1920. Serial No. 412,799. 5 Claims. (Cl. 46—57.)

1. In a device of the class described, a signal; means, responsive to the action of a predetermined weight, for operating the signal; a plurality of rolling elements, one of which differs in weight from the others and is of said predetermined weight; and mechanism for directing the rolling elements at random upon the operating means.



1,388,600. REFRIGERATOR-CAR CONSTRUCTION. EDWARD POSSON, Chicago, Ill. Filed Dec. 19, 1917. Serial No. 207,833. 5 Claims. (Cl. 20—4.)

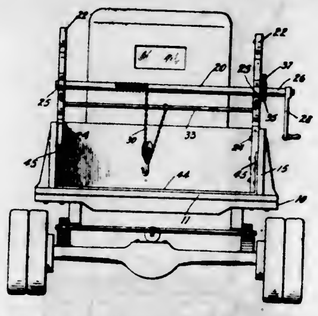


1. In a refrigerator car, an insulated wall comprising a plurality of sectional heat insulators each comprising a plurality of relatively thick layers of flexible insulating material united and supported by sheets of stiffening material cemented thereto, and a framework for uniting and supporting said sections, some of said layers being arranged to abut against said framework, and other layers being arranged to overlap said framework and abut against each other, whereby a continuous sheet of heat-insulating material is formed throughout the car wall.

1,388,601. LOADING DEVICE. EXZEOR PRAIRIE, West Kankakee, Ill. Filed Aug. 6, 1920. Serial No. 401,580. 1 Claim. (Cl. 212—142.)

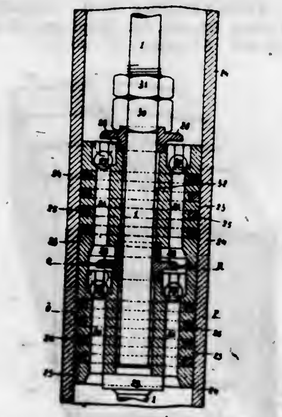
A loading device comprising in combination with a vehicle body having a floor and sides, standards secured to and rising above the sides of the vehicle body, a shaft journaled upon the standards, a rod secured to and extending between the standards parallel with the shaft, a flexible lifting element secured at one end to the shaft to wind thereon and having its opposite end loosely engaged

upon said rod to slide along the same as its main portion winds upon the shaft, a load-engaging device movably



supported by the flexible lifting element, means for turning the shaft, and means for preventing reverse movement of the shaft.

1,388,602. DEEP-WELL PUMP. PAUL CHARLES ALBERT ROTTELEUR, Maurecourt, France. Filed May 21, 1919. Serial No. 298,639. 4 Claims. (Cl. 103—83.)

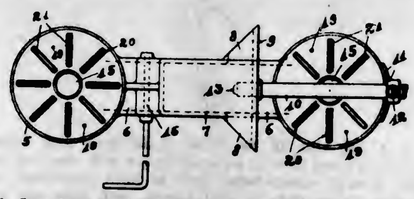


1. An apparatus for raising liquids from borings of considerable depth, comprising a column and successive pumps of unequal capacities with their pistons connected to a single rod for simultaneous reciprocation, the inlet to the column being beneath the bottom pump, whereby the liquid being pumped passes serially through the successive pumps, a pump thereof comprising a pump piston in sections fastened upon the pump rod, each section having a central opening for the rod, and lateral passages for the liquid, said passages enlarged to form valve chambers, and valves therein, and the sections having valve stops for limiting the lift of the valves.

1,388,603. PROCESS OF MAKING METAL NITROGEN-CONTAINING COMPOUNDS AUGMENTED BY GASEOUS CATALYSTS. JAMES HENRY REID, Pittsburgh, Pa., assignor to International Nitrogen Company, a Corporation of Delaware. Filed Sept. 12, 1917. Serial No. 191,053. 22 Claims. (Cl. 23—13.)

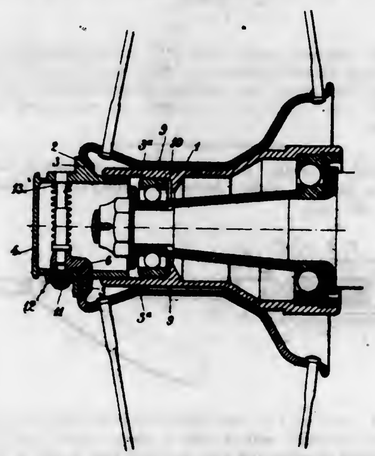
1. The process of making metal nitrogen containing compounds which comprises exposing a metal carbid while associated with a gaseous catalyst to the action of nitrogen and heat and maintaining the temperature below that at which a metal cyanamid is formed.

1,388,604. HYDROCARBON-BURNER. HERMAN F. RICHTER, Los Angeles, Calif. Filed Apr. 16, 1919. Serial No. 290,627. 3 Claims. (Cl. 158—65.)



1. In a burner of the class described, burner heads having an intercommunicating conduit, a mixing box extending upwardly from the conduit to a suitable point above the top of the burner heads having a curved portion projecting toward one of the burner heads opening sidewise, the closed side of the upper termination of the mixing box nearest the burner head toward which it projects being of greater width than the mixing box proper forming a preheating partition and adapted for keeping the ingoing cool air away from this burner head, and a supply tube disposed over such last-named burner head projecting through said enlarged preheating partition in the closed end of the said box terminating within the box at a point intermediate the side openings in the box.

1,388,605. DETACHABLE WHEEL. LOUIS ROUANET, Ivry Port, France, assignor to Compagnie D'Applications Mecaniques, Paris, France. Filed Feb. 16, 1920. Serial No. 358,877. 2 Claims. (Cl. 301—9.)

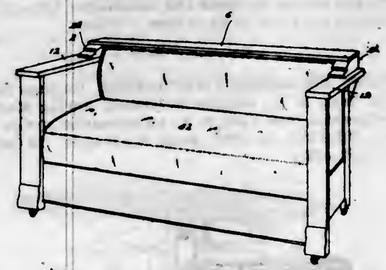


1. A detachable wheel construction comprising in combination a false hub, driving teeth on said false hub, a wheel hub surrounding said false hub, driving teeth on said wheel hub, adapted to engage the driving teeth on the false hub, locking teeth on said wheel hub, a locking nut adapted to be secured to the false hub and to engage with the wheel hub, and a bolt carried by said locking nut, and adapted to engage the said locking teeth, the driving teeth and the locking teeth on the wheel hub being in alinement and thereby adapted to be cut in one operation.

1,388,606. DAVENPORT. WILLIAM SCHICK, Topeka, Kans. Filed May 21, 1920. Serial No. 383,172. 1 Claim. (Cl. 5—48.)

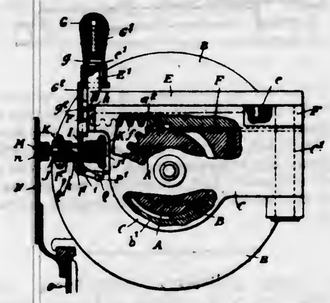
An article of furniture of the character described, consisting of a foldable seat, a frame having arms at its ends

and adapted to support said seat, and a movable upholstered rectangular back consisting of a continuous top rail which extends over the arms, a continuous bottom



rail adapted to rest upon the seat, end pieces rigidly connecting said top and bottom rails, and blocks fixed to the top rail and said end pieces and adapted to rest on top of the arms.

1,388,607. SAFETY APPARATUS FOR PREVENTING THE OPENING OF THE BREECH OF A GUN BEFORE THE RECOIL OF THE GUN-BARREL. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Dec. 28, 1920. Serial No. 433,658. 6 Claims. (Cl. 89—20.)



1. In a safety apparatus for preventing movement of the breech mechanism of a gun before recoil of the gun barrel, the combination of a cradle, a gun barrel carried within the cradle and provided with a breech mechanism, means for locking the breech mechanism in closed position made effective by a longitudinal movement of the breech mechanism operating handle, and means operable to engage and prevent movement of said handle after said locking means has been made effective.

1,388,608. CALF-WEANING DEVICE. MARTIN C. SCHOW, Regent, N. D. Filed Nov. 12, 1920. Serial No. 423,653. 3 Claims. (Cl. 119—130.)



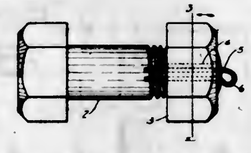
1. A device of the class described comprising a frame formed with an annular central portion, laterally extending offset portions, and radial devices projecting from said offset portions, an inner element of flexible material secured to the inner portion of the frame, and an outer element of flexible material connected with the flexible element first named and inclosing the offset portions of the frame.

1,388,609. GAS-BURNER. ALEXANDER B. SHARP, Steubenville, Ohio. Filed Oct. 27, 1920. Serial No. 420,037. 1 Claim. (Cl. 158—104.)



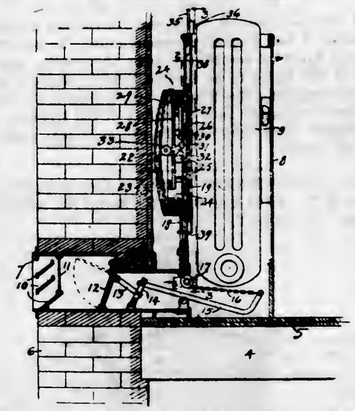
A gas burner consisting of a single integral casting and including a lower leg having an inlet opening at one end, the cross sectional area of the leg progressively increasing from said inlet end to the opposite end, a vertically disposed return bend leading upwardly from the end of the lower leg remote from the inlet end, an upper leg extending from the bend longitudinally over the lower leg and progressively decreasing in cross sectional area from the bend, a channeled burner face extending along the upper side of the upper leg and open through its entire bottom to the said leg, and a series of burner spuds extending along the top of the burner face from end to end thereof and each having a plurality of outlet openings.

1,388,610. NUT-LOCK. LEAVITT A. SHEETZER, Massillon, Ohio, assignor of one-half to Edison W. Hart, Massillon, Ohio. Filed May 9, 1921. Serial No. 467,797. 3 Claims. (Cl. 151—25.)



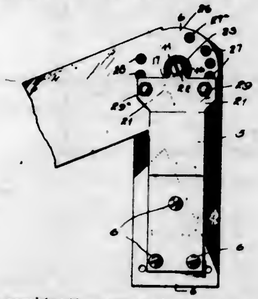
1. The combination of a bolt and a nut thereon, one of said parts having an aperture, and a forked resilient locker in the aperture, the aperture having means to cam the locker into biting engagement with a threaded surface on backward movement of the nut.

1,388,611. AUTOMATIC VENTILATOR. CLARENCE C. SHIPP, Indianapolis, Ind. Filed Jan. 19, 1920. Serial No. 352,357. 5 Claims. (Cl. 236—38.)



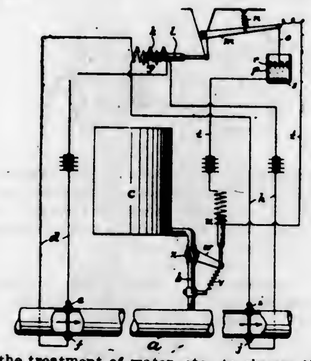
3. The combination with a heat radiator, of a sheet metal radiator-box having a recess pressed in its wall, and a disk closure forming a sealed chamber in said recess the outer wall of the recess forming one of the walls of the sealed chamber.

1,388,612. COMBINATION-SQUARE. HENRY SIMON, Laguna Beach, Calif., assignor of one-half to Joseph W. Skidmore, Laguna Beach, Calif. Filed Jan. 7, 1920. Serial No. 349,916. 24 Claims. (Cl. 33—120.)



1. In a combination square having a movable blade, automatic blade-arresting means overlapping one face of the blade, a push piece having an accessible portion movable toward and from the opposite face of the blade and capable of transmitting disengaging forces upon the blade-arresting means, and means for frictionally clamping the blade in various positions of adjustment.

1,388,613. PROCESS OF AUTOMATICALLY REGULATING THE ADDITION OF A TREATING AGENT TO WATER. JULIAN S. SIMSOHN, Philadelphia, Pa. Filed Oct. 25, 1918. Serial No. 259,695. 7 Claims. (Cl. 204—24.)



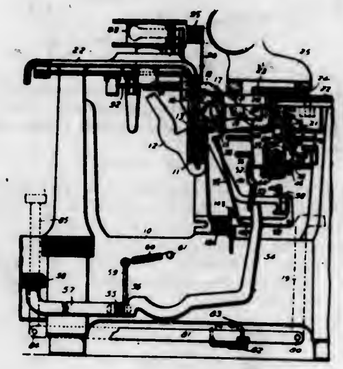
1. In the treatment of water, etc., to change its quality, the process of automatically proportioning the addition of a treating agent in accordance with the quality and rate of flow of the water to be treated, which consists in continuously supplying the treating agent during the flow of water and varying the rate of supply of the treating agent in accordance with variations in the electrical conductivity of the water.

1,388,614. EGG-COOKER. GUSTAV ANTON SORENSEN, Jamaica, N. Y. Filed Dec. 5, 1919. Serial No. 342,587. 3 Claims. (Cl. 116—1.)



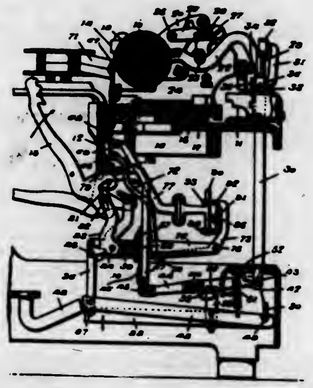
1. An alarm for a cooking vessel including a cover for said vessel, a sleeve secured to the cover and provided with an opening intermediate its ends, and a tube having its ends open extending through the cover externally of the sleeve and having its upper end terminating adjacent the opening in the sleeve so as to form a whistle.

1,388,615. ESCAPEMENT MECHANISM. CHARLES SPIRO, New York, N. Y., assignor to Federal Adding Machine Corporation, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1920. Serial No. 358,591. 26 Claims. (Cl. 197—82.)



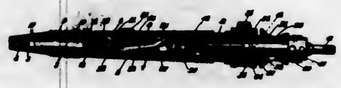
1. In a typewriter, a carriage, a motor member therefor provided with an escapement wheel, a movable member pivoted upon an axis intersecting that of the wheel and carrying fixed and movable dogs coöperating with said wheel, a space bar action arranged to engage and actuate said movable member, and a universal bail having means to actuate said movable member independent of the space bar action.

1,388,616. CASE-SHIFTING MECHANISM. CHARLES SPIRO, New York, N. Y., assignor to Federal Adding Machine Corporation, New York, N. Y., a Corporation of New Jersey. Filed Feb. 14, 1920. Serial No. 358,593. 18 Claims. (Cl. 197—155.)



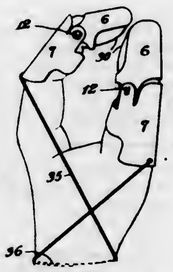
1. In a typewriter, a frame, a horizontal cross bar therein, a slide block carried by one face of said bar, a ribbon vibrating member carried by a support slidably mounted upon said block, and means for case shifting said support and member upon said bar.

1,388,617. HANDPIECE FOR DENTAL ENGINES. RUFUS G. STANBROUGH, New York, N. Y., assignor to Margaret E. N. Stanbrough, New York, N. Y. Filed Feb. 20, 1920. Serial No. 360,032. 5 Claims. (Cl. 32—15.)



2. In a dental hand piece, the combination with a casing, a rotary sleeve in the casing, a chuck having a longitudinal tool aperture, and a longitudinally movable chuck closer, in axial alinement with the chuck, of a dog for actuating the chuck closer, comprising an angular plate having a member disposed longitudinally of the sleeve and a member disposed transversely of the sleeve, the outer end of said transverse member having a fulcrum end in the plane of the longitudinal member and engaging an aperture in the wall of the sleeve, such chuck closer and said transverse arm being provided, the one with a recess and the other with a screw engaging said recess having its axis coincident with the axis of the chuck closer for holding said dog from movement transversely of the sleeve, and transmitting pressure to the chuck closer axially thereof, and actuating means for engaging the longitudinal arm of the dog.

1,388,618. FINGER-PROTECTOR. ALEC STEIN and GEORGE STEIN, New York, N. Y. Filed June 17, 1920, Serial No. 389,557. Renewed July 14, 1921. Serial No. 484,818. 4 Claims. (Cl. 2—104.)



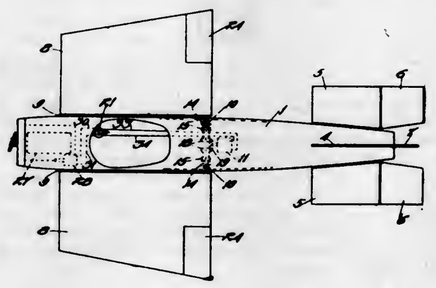
1. A finger guard comprising an outer finger tip section and a rear section, means for pivoting the one section upon the other, both of said sections being substantially semicircular in cross section and each of said sections having bottom retaining lugs, and means for attaching the said finger guard to the hand of the user thereof.

1,388,619. METHOD OF MAKING CONCRETE-LINED PIPE. WILLIAM SYMONS, Iron River, Mich. Filed Dec. 1, 1920. Serial No. 427,573. 9 Claims. (Cl. 25—38.)

1. The method of lining a pipe section with concrete comprising a placing a tapered core in said pipe, bracing said core substantially equidistantly from the pipe walls, filling the space between the core and pipe with concrete, periodically lifting the core a short distance and permitting it to settle back in place during the setting of the concrete.



1,388,620. AEROPLANE. ALAN LE OLEN TURNER, Carson City, Nev., assignor of one-fourth to Charles M. Hartt, Hartford, Conn., one-fourth to Frederick E. Skinner and one-fourth to Edward N. Tripp, Carson City Nev. Filed Aug. 12, 1920. Serial No. 403,011. 1 Claim. (Cl. 244—29.)

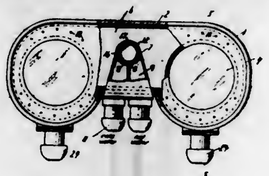


An aeroplane having two laterally extending side wings, one on each side, which are pivotally connected with the machine at their forward ends, and which are vertically movable at their rear ends, a worm screw for operating each of said wings to turn them on their pivots, a threaded block with which said worm engages, and connection between said block and the wing, whereby the rotation of the worm will actuate the wing to turn it up or down on its pivot, a motor having driving connection with each of said worms, and means under the control of the operator for making driving connection between the motor and the worms, for reversing the direction of rotation and for breaking the connection at will.

1,388,621. DEVICE FOR TREATING THE EYES. HENRY P. UMBSEN, San Francisco, Calif., assignor to Umbsen Manufacturing Corporation, a Corporation of Delaware. Filed Sept. 8, 1919. Serial No. 322,322. 11 Claims. (Cl. 128—249.)

1. In a device for treatment of the eyes, the combination of a casing, closed at the front side and open at the rear side, and of a form to fit closely against the face of the

patient around the eyes, annular chambers in said casing having discharge openings in their rear walls, means for



admitting a stream of liquid into said chambers, and means for directing the flow of liquid from said casing.

1,388,622. SCREW-THREADED CONNECTION. LEE J. VOORHEES, Binghamton, N. Y., assignor to National Carton Company, Inc., a Corporation of New York. Filed May 29, 1920. Serial No. 385,378. 6 Claims. (Cl. 285—146.)



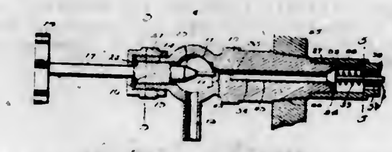
6. Process of connecting a screw-threaded tubular member to a second member made of a material differing from the material of the tubular member in the change of dimensions which it exhibits under the influence of the same change in conditions, which comprises forming on the second member a screw-thread adapted to engage the thread of said tubular member, slotting the end of the tubular member to increase its resiliency, forming on said second member an inclined surface adapted to force and hold the respective threaded portions in closer contact when the members are screwed together, and then screwing the members together.

1,388,623. BELT-BUCKLE. THOMAS D. WALKER, New Britain, Conn., assignor to The Traut & Hine Mfg. Company, New Britain, Conn., a Corporation of Connecticut. Filed Apr. 29, 1921. Serial No. 465,421. 2 Claims. (Cl. 24—191.)



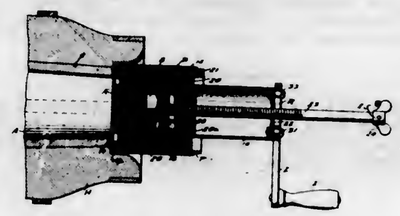
1. A belt buckle comprising a body portion having rearwardly extending flanges forming a channel between them at the back of said body, a tilting gripping plate pivoted at its ends and intermediate its upper and lower edges to said flanges, a swinging lever pivoted adjacent to the gripping plate at the back of the body and coöperating therewith, and having a limited amount of lost motion relatively thereto and adapted when swung to move said gripping plate into or out of the belt gripping position by engaging portions thereof on opposite sides of its pivotal axis.

1,388,624. SAFETY SCALEPROOF AUTOMATIC GAGE-COCK. LESSIE WHIPPLE and ZACK ONEAL, Shreveport, La. Filed Nov. 16, 1920. Serial No. 424,507. 2 Claims. (Cl. 73—54.)



2. In a gage cock, a body portion having a spherical main valve chamber adjacent one end and a manually operated, main valve screwed into such end, said body portion adapted to be screwed into a boiler head and having a central bore, a cage screwed onto the other end of the body, said cage having a central opening in its end wall, an auxiliary valve carrying a plunger extending into said bore and loosely mounted in said cage and adapted to automatically control the inner end of the bore of the body, said plunger coöperating with the main valve, a stem projecting through said central opening in the end wall of the cage, said end wall having a series of openings surrounding said central guide opening.

1,388,625. GREASE-GUN. ANDREW WHITE and MARTIN GRANUM, Montevideo, Minn. Filed Jan. 19, 1920. Serial No. 352,353. 9 Claims. (Cl. 64—27.)



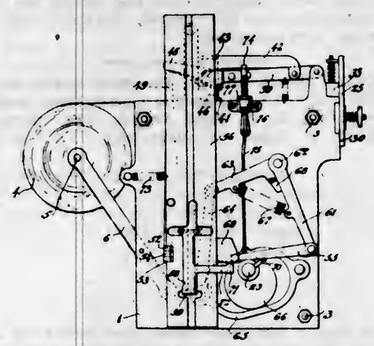
1. In combination, an axle skein, including a threaded head, and a grease gun comprising, a barrel, a plunger movable within the barrel, means for actuating said plunger, and means for attaching said barrel to said skein comprising, a sleeve nut having right and left hand screw threads, and a threaded spindle for actuating the nut.

1,388,626. TALKING-MACHINE. GUY L. WILLETT, Louisville, Ky. Filed Feb. 28, 1921. Serial No. 448,341. 2 Claims. (Cl. 274—35.)



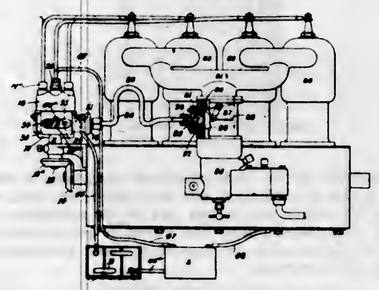
1. In a phonograph reproducer, a diaphragm, a stylus arm, a triad of posts fixed to the diaphragm in triangular relation, and a three armed spider having eyes at the ends of its arms embracing and gripping the posts, said spider further being firmly connected to the stylus arm.

1,388,627. VENDING-MACHINE. ABRAM L. ZENT, Dayton, Ohio, assignor to The Bushnell Manufacturing Company, Kansas City, Kans., a Corporation of Kansas. Filed Aug. 18, 1919. Serial No. 317,110. 55 Claims. (Cl. 194—2.)



1. In a mechanism of the character described, a feeding device for a series of connected articles having bodily movement to advance one or more of said articles to a discharge position, means for moving said device to its fully retracted position upon each operation of said mechanism and for advancing the same different distances to move different numbers of said articles to discharge position, and coin controlled means for controlling the distance said device is advanced.

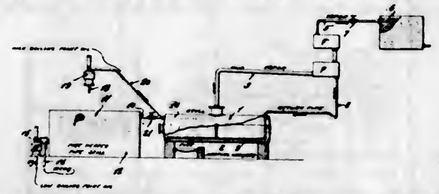
1,388,628. IGNITION-CONTROLLER. ALBERT E. BERDON, Anderson, Ind., assignor to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed Jan. 10, 1917. Serial No. 141,508. 34 Claims. (Cl. 123—117.)



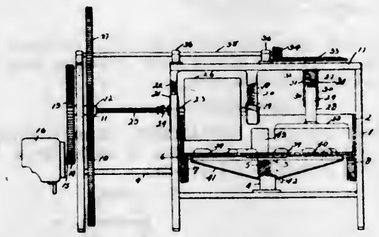
30. In an ignition controller for internal combustion engines, the combination with a timer device, of a timer setting device controlled automatically by the suction of the engine, and including provisions leading into the engine intake conduit at different points whereby the suction pressure effecting the operation of the timer setting device is the result of the differential action of the suction pressures at said different points, said differential action varying in accordance with the extent of opening of the engine throttle valve.

1,388,629. ART OF CRACKING HYDROCARBONS. JOHN W. COAST, Jr., Tulsa, Okla., assignor to The Process Company, Tulsa, Okla., a Corporation of Maryland. Filed Sept. 27, 1917. Serial No. 193,472. 5 Claims. (Cl. 196—25.)

1. In the art of cracking high boiling point and low boiling point hydrocarbon oils, the method which comprises maintaining a body of the high boiling point oil in a cracking still, forcing the low boiling point oil into a cracking coil, discharging the contents of the cracking coil into said high boiling point oil in the still, maintaining the low boiling point oil under a relatively high pressure and at a relatively high temperature, and maintaining the high boiling point oil under a lower pressure and at a lower temperature.

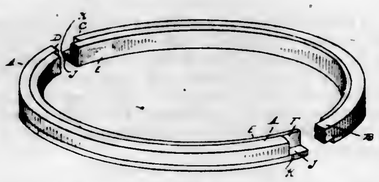


1,388,630. VEGETABLE-CLEANER AND THE LIKE. HERBERT E. COLLETT, Philadelphia, Pa. Filed June 19, 1920. Serial No. 390,110. 6 Claims. (Cl. 146—14.)



1. In a machine of the character described, a frame, a post carried by said frame, a receptacle mounted upon said post, means for revolving the receptacle, a cross bar carried by the frame, a short vertical shaft journaled in the cross bar, means for revolving said shaft, a socket carried by said shaft, a shank projecting into said socket having a limited vertical movement therein and revolving therewith, and a brush secured to the lower end of said shaft.

1,388,631. PISTON-RING. DAVID E. CREECH, Jackson, Mich. Filed Mar. 10, 1919. Serial No. 281,696. 2 Claims. (Cl. 74—109.)

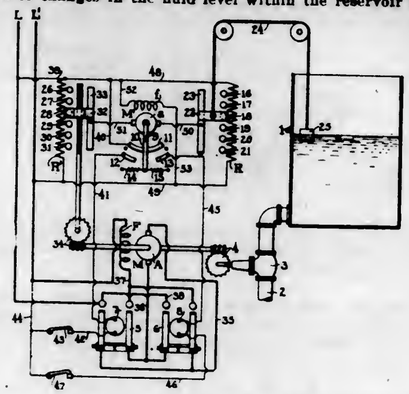


2. A piston ring, comprising members having complementary eccentric portions, the combined members having concentric inner and outer faces and each member being split at the thinnest point of its eccentric portion, one of said members being of L-shaped cross-section with the laterally extending portion thereof lying adjacent to the side of the other member, and the eccentric portion of the said L-shaped member being relatively thinner than the eccentric portion of the complementary member so that the tension upon contraction of said L-shaped ring is substantially equal to the tension upon equal contraction of the complementary ring.

1,388,632. MEANS FOR REGULATING THE FLOW OF FLUIDS. PETER P. DEAN, New York, N. Y. Filed Feb. 10, 1919. Serial No. 276,008. 5 Claims. (Cl. 137—68.)

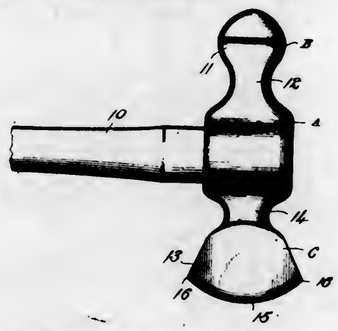
1. The combination with a valve and a motor for operating said valve to varying degrees, of starting and

stopping means for said motor, said means being responsive to changes in the fluid level within the reservoir for



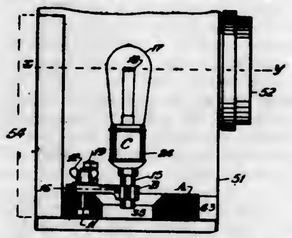
starting said motor and including means rendering the duration of operation of said motor dependent upon the degree of change in fluid level.

1,388,633. FELLING IMPLEMENT. BOYD T. DICKINSON, Billings, Mont. Filed Oct. 5, 1920. Serial No. 414,784. 2 Claims. (Cl. 17—30.)



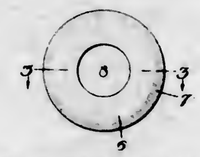
1. A felling implement comprising a handle, and a head on the handle including a body portion, and a wedging element on one side of the body portion connected with the latter by a reduced neck, said wedging element being fan-shaped and terminating at its outer end in a convex working edge rounded transversely, the width of said element being greater than the longitudinal extent of the body portion.

1,388,634. MEANS FOR POSITIONING LAMPS. EDWARD A. EVERETT, New York, N. Y. Filed June 14, 1919. Serial No. 304,260. 1 Claim. (Cl. 240—44.)



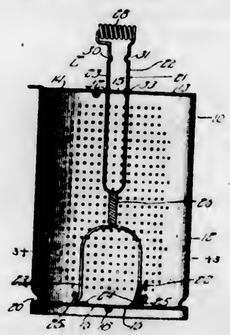
In combination a lamp and socket, a lamp housing having an opening, a loose block placed in said lamp housing and locked in position by a screw, a horizontal arm secured to said block by a thumb screw and capable of movement in a horizontal plane, said arm having jaws offset at a right angle and having a clamping screw, said lamp socket clamped to said arm by said clamping screw, said thumb screw located opposite said opening, the screws for locking said block and clamping said socket being in a direct line with said opening.

1,388,635. SPOOL-HEAD. CLARENCE HARRY FORNEY, Jersey City, N. J., assignor to Forney Fibre Company, Jersey City, N. J. Filed Aug. 6, 1919. Serial No. 315,585. 3 Claims. (Cl. 242—119.)



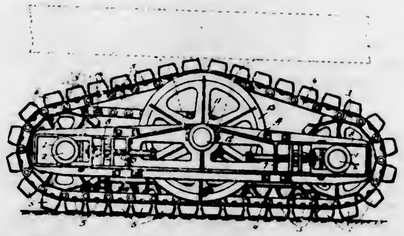
1. A fibrous disk shape spool head having its outer integral edge portion hardened and other integral portion adjacent its axis comparatively soft; substantially as described.

1,388,636. KITCHEN UTENSIL. EDWARD F. FRAUTNICK, Elgin, Ill. Filed Apr. 16, 1921. Serial No. 461,983. 8 Claims. (Cl. 53—3.)



1. A device of the class described, comprising a receptacle having a perforated side wall and a top wall, and means for sealing the bottom end of the receptacle, the means comprising a door, and means co-acting with the top wall for securing the door in a closed position relative to the receptacle.

1,388,637. MULTIPEDAL TRACTOR. JAMES C. FRENCH, Chicago, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed Sept. 24, 1917. Serial No. 192,896. 17 Claims. (Cl. 180—91.)

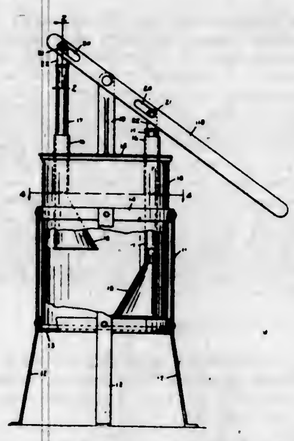


1. In a traction device, an endless belt composed of sprocket chains and treads held together by said chains

to travel on the ground, a frame, rotary elements on said frame to support and operate said belt, rotary members to support the frame on the lower portion of said belt, rotary means on said frame to prevent lateral displacement of said belt, said members engaging the treads centrally between the sprocket chains, so that said members roll on the unconnected portions of said treads, and said means confiningly engaging both sides of each of said sprocket chains at opposite sides of the path of travel of said members, whereby said engaging means are supported by the connected portions of the treads.

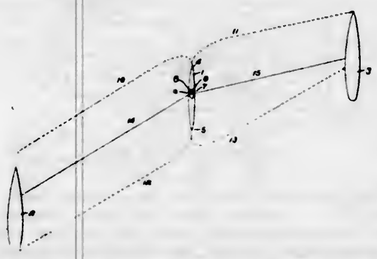
1,388,638. [WITHDRAWN.]

1,388,639. BUTTER-MAKING MACHINE. CHARLES H. HALT, New Haven, Ind., assignor to Non-Explosive Appliance Company, Fort Wayne, Ind., a Corporation. Filed Oct. 18, 1919. Serial No. 331,633. 3 Claims. (Cl. 259—112.)

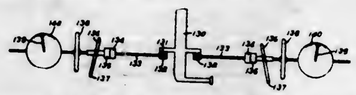


1. A churn including an elongated elliptical tank, a lid therefor, a pair of oppositely located tubular guides in said lid near the ends thereof, dasher members vertically reciprocatory in said guides, dashers secured eccentrically to the lower ends of said members and extending inwardly toward each other at their lower ends, so that one dasher operates at each end of the tank and extends almost to the middle thereof, a handle pivotally connected with the upper ends of said members, and means between said pivotal connections for fulcruming the handle lever between its connections with said dasher members, whereby the dashers will have relatively great vertical movement.

1,388,640. APPARATUS FOR CONTROLLING TORPEDO-FIRING. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed Aug. 5, 1915, Serial No. 43,879. Renewed Jan. 11, 1921. Serial No. 436,614. 23 Claims. (Cl. 114—235.)

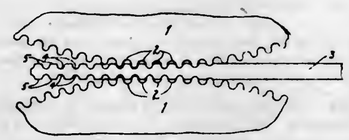


1. Apparatus for controlling torpedo firing comprising sighting means, a torpedo, direction maintaining apparatus for the torpedo, and means controlled by said sighting means to modify the action of said direction maintaining apparatus upon said torpedo, said means being



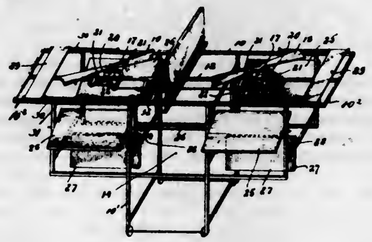
adjustable further to modify the action of said direction maintaining apparatus, whereby the actual path of the discharged torpedo is varied from that which otherwise would be imparted by said modifying means.

1,388,641. METHOD OF AND MEANS FOR EMBOSSING PAPER. HERMAN R. HARRIGAN, Holyoke, Mass., assignor to American Writing Paper Company, Holyoke, Mass., a Corporation of New Jersey. Filed Apr. 9, 1919. Serial No. 288,704. 3 Claims. (Cl. 101—23.)



1. The method of embossing paper consisting in passing the paper between compression rolls which have therein continuous indentations parallel with the axes of said rolls, and arranged to leave uncompressed diametrically opposite portions of the paper on opposite sides thereof, the unindented portions of said rolls penetrating the paper without meeting, and the indented portions of said rolls at their deepest parts contacting with the normal exterior surfaces of the paper.

1,388,642. FLYING-MACHINE. WENZEL HAUPT, New York, N. Y. Filed Oct. 8, 1920. Serial No. 415,526. 27 Claims. (Cl. 244—15.)

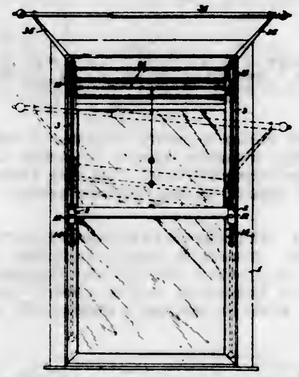


1. In a flying machine of the helicopter type, oppositely and horizontally revolving propellers, driving planes arranged below said propellers and capable of adjustment to different angles of inclination relative to said propellers and balancing planes arranged below said driving planes and capable of adjustment to different angles of inclination relative to said driving planes.

1,388,643. WINDOW-FIXTURE. AUGUSTIN HELLMUTH, West New York, N. J. Filed May 25, 1920. Serial No. 384,141. 10 Claims. (Cl. 156—27.)

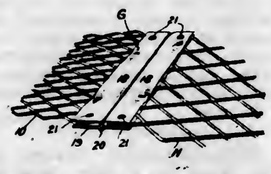
8. A fixture for a window comprising a pair of rods fitted to opposite sides of the window frame for independent vertical adjustment, a link pivoted to the upper end portion of each rod, for movement in a plane parallel with the window, a shade roller having its flat end pin non-rotatably supported in the free end of one of the

links, a member secured to the other end of the roller for rotatably mounting the same and having an articulate



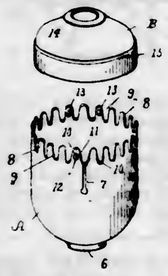
connection to the free end of the other link for permitting movement of the member parallel with that of the links.

1,388,644. GUARD DEVICE. THOMAS R. HERBERT, Jr., Philadelphia, Pa., assignor to Consolidated Expanded Metal Company, Braddock, Pa., a Corporation of Pennsylvania. Filed Mar. 15, 1919. Serial No. 282,970. 3 Claims. (Cl. 74—56.)



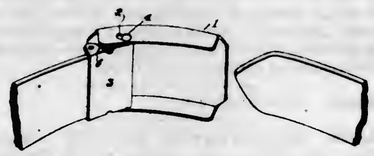
1. A device suitable for guards and the like, comprising in combination a frame, a plurality of sheets of open mesh fabric, and means for splicing the fabric consisting of a member having oppositely disposed U shaped portions, said splicing member being provided with means for attachment to the frame.

1,388,645. ELECTRIC-LAMP SOCKET. DAVID HJORTH, Bridgeport, Conn., assignor to The General Machine & Manufacturing Co., Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 27, 1919. Serial No. 285,522. 3 Claims. (Cl. 173—362.)



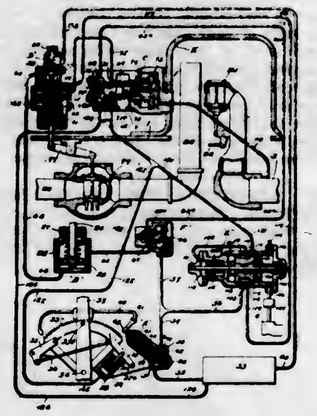
1. An incandescent lamp socket comprising a shell having a series of notches in the upper end thereof defining a series of resilient teeth, some of said teeth being provided with outwardly struck portions and a cap having an inwardly projecting ledge with the struck out portions of said teeth engaging the upper edge of said ledge for retaining the cap upon the shell.

1,388,646. BELT-BUCKLE. ERNEST N. HUMPHREY, New Britain, Conn. Filed Apr. 29, 1921. Serial No. 465,464. 1 Claim. (Cl. 24—191.)



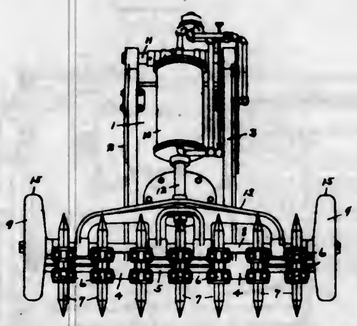
In a belt buckle, a body having rearwardly extending flanges along its upper and lower edges forming a belt passage between them, an oblique slot in each flange near one end thereof, a swinging lever pivotally mounted at one end in said slots and slidable therein, a belt gripping portion on the lever adjacent to the pivotal portion thereof, means for securing one end of a belt to said lever, the other end of the belt being arranged to pass between the body and the belt gripping portion of the lever, whereby when said lever is straightened out the belt gripping portion thereof will grip the belt between it and the back of the body, and whereby tension on the belt will tend to slide the lever bodily in a direction to cause the edges of the oblique slots to move the lever and belt gripping portion thereof into more intimate gripping contact with the belt.

1,388,647. CONTROL OF BOOSTER-MOTORS FOR LOCOMOTIVES. HOWARD L. INGERSOLL, White Plains, N. Y. Filed Oct. 20, 1919. Serial No. 331,876. 50 Claims. (Cl. 105—48.).



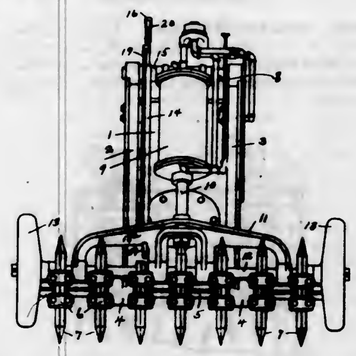
50. In combination with the main driving means of a locomotive, a booster motor and means whereby the booster motor can not be operatively connected with the locomotive while the main driving means is in operation or the locomotive is drifting faster than a predetermined speed.

1,388,648. GAGE-WHEEL FOR SCARIFYING DEVICES. HENRY D. JONES, Springfield, Ohio, assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio, a Corporation of Ohio. Filed Sept. 13, 1920. Serial No. 410,069. 4 Claims. (Cl. 37—50.)



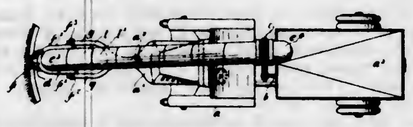
1. In a scarifying apparatus, a series of scarifying tools, gage wheels associated therewith, the side of each wheel being inclined outwardly away from its adjacent tool, for the purpose specified.

1,388,649. SUPPORT FOR SCARIFYING DEVICES. HENRY D. JONES, Springfield, Ohio, assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio, a Corporation of Ohio. Filed Sept. 13, 1920. Serial No. 410,070. 3 Claims. (Cl. 37—50.)



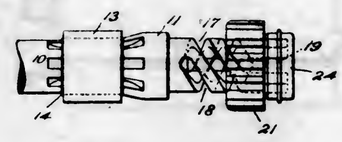
1. In a scarifying apparatus, a series of scarifying devices arranged to be raised and lowered, a support for holding said devices in raised position, and a pivoted latch on said support for locking the same to said devices.

1,388,650. MOTOR-TRUCK EXCAVATOR. LYMAN COLT JOSEPHS, Jr., New York, N. Y., assignor to International Motor Company, New York, N. Y., a Corporation of Delaware. Filed May 27, 1920. Serial No. 384,540. 1 Claim. (Cl. 37—32.)



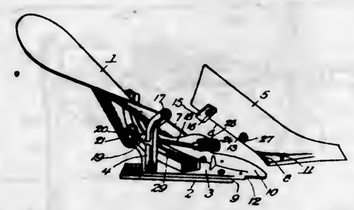
In a motor vehicle, in combination with the prime mover therefor, a power operated excavator head, a support therefor pivoted on the vehicle body and movable in a horizontal plane, a pivotal connection between the head and said support for movement of the head in a vertical plane, operative driving connections between said head and the prime mover and a conveyer pipe movable with the head and terminating in discharge position over the vehicle body.

1,388,651. GEAR-RELEASE. CHARLES H. KLOER, Jersey City, N. J. Filed Aug. 13, 1919. Serial No. 317,121. 19 Claims. (Cl. 74—7.)



1. Automatic gear shifting means comprising a pinion supporting member with a flexible hollow extension having spiral slots through its wall, a pinion carried loosely on said flexible extension and engaging said slots, and means for rotating said pinion support.

1,388,652. DETACHABLE PLOWSHARE. ALVARO S. KROTZ, Janesville, Wis., assignor to Janesville Machine Company, Janesville, Wis., a Corporation of Wisconsin. Filed Oct. 19, 1918. Serial No. 258,883. 8 Claims. (Cl. 97—18.)

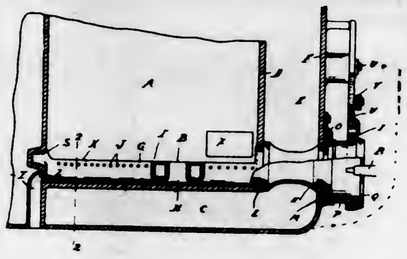


1. A quick detachable plow share construction for plows, comprising a frog and a moldboard secured thereto, a plow share, and mechanism including an element formed with a protuberance which fulcrums and slides on the smooth under surface of the frog to draw the plow share firmly into position, and adapted to permit detachment of the share from said element merely by a reverse adjustment of the mechanism, said frog having a portion with a notch which extends under the plow share, with a projection on the under side of the plow share to enter said notch, and said element comprising a yoke with a hook to engage said projection, and having portions which engage the under side of the frog to provide the fulcrum therefor, a rod connected to said yoke, a bearing for said rod, and a nut on said rod to engage said bearing, the rod being disposed at an angle to the yoke, so that tightening of the nut causes the yoke to operate as a lever on its said fulcrum, thereby to hold the under side of the plow share tightly against the upper surface of the frog, as well as to draw the plow share against the edge of the moldboard.

1,388,653. COMBINATION COAL AND GAS RANGE. JOHN H. LANE, Detroit, Mich., assignor to Peninsular Stove Company, Detroit, Mich., a Corporation of Michigan. Filed Sept. 16, 1918. Serial No. 254,174. 6 Claims. (Cl. 126—36.)

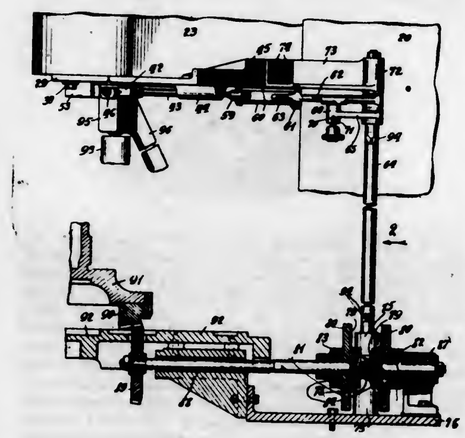
1. In a combination coal and gas stove, an inner casing forming an oven having a grooved bottom and an aperture in alinement with said groove through its end wall, an outer casing spaced from said inner casing to form bottom and side flues, the side wall thereof having an aperture in alinement with an aperture in the inner casing, and a burner extending through said alined apertures having an eccentric portion lying in said groove in one position of ad-

justment and raised above the oven bottom in another position of adjustment, and shoulders on said burner for co-



operating with the inner and outer side walls to form a sealed joint.

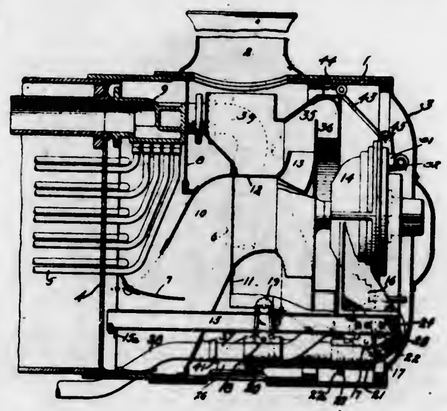
1,388,654. MECHANISM FOR CUTTING OFF MOLTEN GLASS. FRANK H. LOBB, Millville, N. J., assignor to United Bottle Machinery Co., New York, N. Y., a Corporation of New York. Filed Sept. 17, 1917. Serial No. 191,665. 19 Claims. (Cl. 49—55.)



10. In a device of the character described, a discharge member having an outlet, a shearing member movable across and in contact with said outlet, a carrier located on the side of the shearing member opposite to that facing the outlet, said carrier and shearing member being provided, on their adjacent faces, with coöperating rib and groove formations transverse to the path of the shearing member, said rib being in contact with the groove along a single line parallel to the path of the shearing member, and the shearing member being adapted to rock on the carrier transversely of said path, and means for moving the carrier.

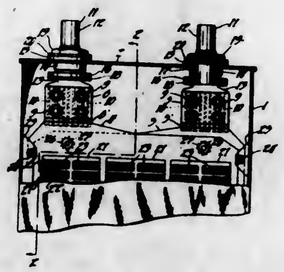
11. In a device of the character described, a discharge member having an outlet, a shearing member movable across and in contact with said outlet, a movable carrier for said shearing member, the said carrier and shearing member being provided, one with a rib extending transversely of the path of the shearing member and curved in said direction at its free surface, and the other with a transverse groove with the surface of which said curved surface of the rib is in rocking engagement, and means for operating said carrier.

1,388,655. LOCOMOTIVE DRAFT APPLIANCE. NATHAN M. LOWRY, Bellevue, Pa., assignor to The Locomotive Stoker Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 3, 1919. Serial No. 308,683. 7 Claims. (Cl. 110—162.)



5. Supporting means for locomotive fan exhausting apparatus, comprising a frame and means for slidably mounting said frame for movement into or out of the smoke box and means for securing the frame to the adjacent structure when moved into the smoke box.

1,388,656. STORAGE BATTERY. LAMAR LYNDON, West Orange, N. J., assignor to Edison Storage Battery Company, West Orange, N. J., a Corporation of New Jersey. Filed Apr. 30, 1919. Serial No. 293,791. 5 Claims. (Cl. 204—29.)

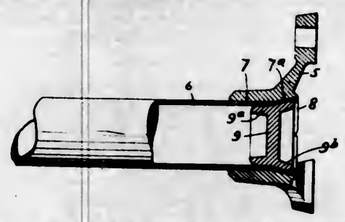


1. In a storage battery having a set of positive and a set of negative elements or plates, means for rigidly and electrically connecting the plates of each set together comprising spacing members each disposed between a pair of adjacent plates in the set, a face of each of said spacing members being provided with spaced ribs in contact with the respective adjacent plate, substantially as described.

1,388,657. ART OF JOINING METAL PARTS. HARRY P. MACDONALD, Montclair, N. J., and WILLIAM S. THOMSON, Plantsville, Conn., assignors to The Snead & Co Iron Works, Jersey City, N. J., a Corporation of New Jersey. Filed Apr. 4, 1919. Serial No. 287,570. 3 Claims. (Cl. 285—56.)

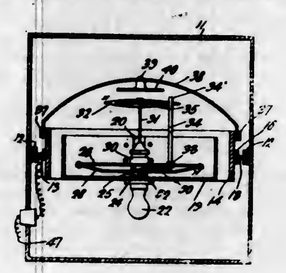
1. As a new article of manufacture, a torque transmitting device comprising a tubular member, a spider member adapted to connect said tubular member to an adjacent part, said spider having a hub to receive an end of the tubular member, the opening in the hub being enlarged

to a non-circular section of greater diameter than the tubular member, a wedge for expanding the tube in such en-



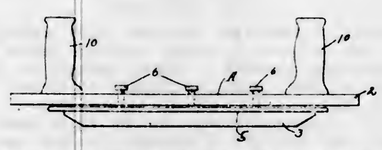
larged portion, and lug means on the spider member overlying the end of the tubular member and the wedge.

1,388,658. MAGNETIC CONTROLLING DEVICE. CESAR MARSHALL, New York, N. Y. Filed Oct. 16, 1917. Serial No. 196,833. 2 Claims. (Cl. 102—3.)



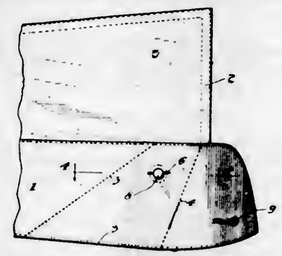
1. A circuit closer including a non-magnetic casing, a gimbal mounted in said casing and consisting of two members each insulated from the other and from the casing, a rotatable body carried by the inner member of the gimbal, said body being non-magnetic, a plurality of permanent magnets carried bodily thereby, said magnets being in parallel with their poles in the same direction, a vertical shaft carried axially of the rotatable member, a magnetic needle mounted for independent movement upon the upper end of said shaft with its north pole in an opposite direction to the north poles of the first mentioned magnets, a Y-shaped non-magnetic antenna carried by the rotatable body and disposed to have the terminals thereof fitting astride one end of the magnetic needle, contact members carried by the magnetic needle for engaging the antenna, said contact members being normally held out of contact with the antenna due to the magnetic affect on the first mentioned permanent magnets upon the magnetic needle, and circuit connections with the shaft and antenna and insulated from each other whereby the circuit is normally open.

1,388,659. SKATE-SHARPENER. VERNON V. MITCHELL, Whitney Point, N. Y. Filed Aug. 28, 1919. Serial No. 320,342. 3 Claims. (Cl. 76—83.)



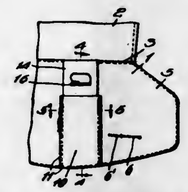
1. A skate sharpener consisting of a handle mounting plate, a guide flange projecting from beneath the same, a rectangular longitudinal recess extending the length of the guide flange, adapted to receive and hold a flat file, means for removably clamping said file therein, and a flat file so mounted therein.

1,388,660. COLLAR. JAMES L. MURPHY, Chicago, Ill. Filed Mar. 6, 1919. Serial No. 280,925. 2 Claims. (Cl. 2—69.)



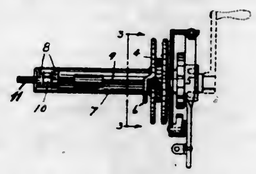
1. In a collar having the two ends of the neck band constructed to overlie, and provided with a button hole in the back and in each of the ends to engage the buttons carried by the shirt band, the neck band of the collar being formed of two layers of material secured together along their edges, and having near one end a pocket formed therebetween and opened at the bottom edge of the band, with a button hole formed in the outermost wall of the pocket, the opposite end of the collar extended to be positioned between the band and the folded over part to overlie the button hole, and having a registering button hole formed therein.

1,388,661. COLLAR. JAMES L. MURPHY, Chicago, Ill. Filed July 31, 1920. Serial No. 400,414. 8 Claims. (Cl. 2—69.)



1. In a collar of the kind described and in combination, a neck-band having the two ends of the same constructed to overlie, and provided with buttonholes for engaging the buttons carried by a shirt-band, and a stay detachably carried by said neck-band adjacent one end to one side of the buttonhole at said end and provided with engaging means, the opposite end of the neck-band provided with means for coöperating with said engaging means.

1,388,662. MEANS FOR CONNECTING FLEXIBLE ELEMENTS TO DRUMS. WYMAN L. OFFICER, Warren, Minn. Filed May 25, 1920. Serial No. 384,215. 1 Claim. (Cl. 254—150.)



In a device of the class described, the combination of a shaft journaled in plates for rotation, flanged winding drums carried by the shaft, a slot formed in one of the flanges of each drum for extending a flexible element through it, an angular guard provided on said flange and extending across the slot for holding the flexible element in place, spaced lugs provided on each drum

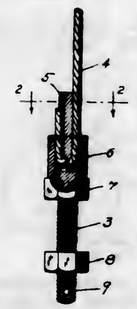
hub with eyes in them, a threaded bolt secured to the flexible element and passed through the said eyes, and a nut threaded on the bolt between the spaced lugs, whereby the flexible element is adjustably secured.

1,388,663. ROPE-END HEAD. WYMAN L. OFFICER, Warren, Minn. Filed May 25, 1920. Serial No. 384,217. 1 Claim. (Cl. 24—124.)



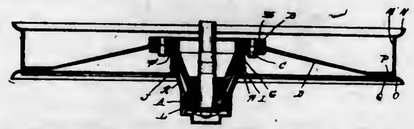
In a device of the class described, the combination of a forked plate with a raised groove, shoulders provided integrally on the groove and plate, eyes provided in the shoulders, rivets extending through the eyes for clamping a cable to it, and means for connecting it to a lug.

1,388,664. ROPE-END HEAD. WYMAN L. OFFICER, Warren, Minn. Filed Apr. 7, 1921. Serial No. 459,506. 1 Claim. (Cl. 24—124.)



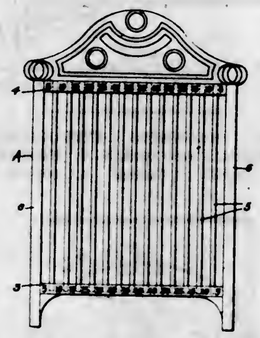
In a device of the class described, the combination of a threaded bolt carrying a nut and a sleeve, said bolt having an eye in it connected by ridged grooves, a cable extending through the eye and bent over into the grooves by the sleeve when the nut is turned up snug against them, and means for attaching it to a lug and adjusting the effective length of the cable down to a minimum.

1,388,665. VEHICLE-WHEEL. ALDEN L. PUTNAM, Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del., a Corporation of Delaware. Filed May 3, 1917. Serial No. 166,079. 6 Claims. (Cl. 301—9.)



1. In a vehicle wheel, the combination with a centrally-apertured disk, of a hub for engaging the aperture in said disk and provided with an outwardly-extending flange on one side of the disk, driving pins projecting laterally from said flange and engaging registering apertures in the disk, a reinforcement for the central portion of the disk correspondingly apertured for engagement with said driving pins and provided with an outwardly-extending annular flange, and a hub-cap having a threaded engagement with said hub and a grooved bearing for engaging the outer end of said annular flange.

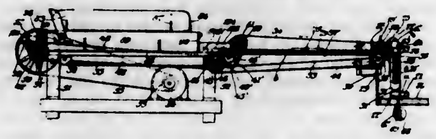
1,388,666. GAME. WALTER F. ROOT, Philadelphia, Pa., assignor of one-half to Frederick Beissel, Darby, Pa. Filed Apr. 17, 1920. Serial No. 374,580. 3 Claims. (Cl. 46—59.)



3. A game comprising in combination a frame adapted to rest on the floor and provided with a series of spaced bars, and a hoop of a diameter greater than the distance between any two bars adapted to be tossed toward the frame to bounce between two bars, the various spaces being given differing values.

1,388,667. [WITHDRAWN.]

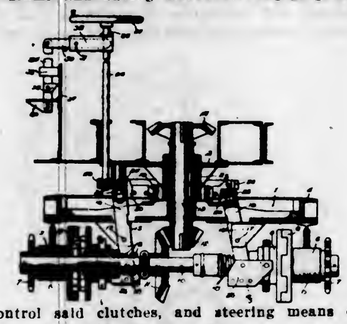
1,388,668. SHUCK-FEEDING MECHANISM FOR BOX-FILLING MACHINES. HENRY C. SCHUMACHER, Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 21, 1920. Serial No. 353,035. 20 Claims. (Cl. 193—48.)



11. The combination with a chute, of means for feeding shucks successively in endwise relation to each other into said chute, from one side of the latter, said means including pressure mechanism for acting upon the top of each succeeding shuck before its delivery to the chute, and means for bodily depressing each succeeding shuck as rapidly as it is fed into the chute.

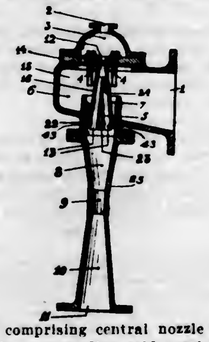
1,388,669. COMBINED DRIVING AND STEERING GEAR. CHARLES E. STAHL, Winthrop Harbor, Ill., assignor to Frederick C. Austin, Chicago, Ill. Filed Oct. 18, 1919. Serial No. 331,604. 18 Claims. (Cl. 180—17.)

1. In driving and steering gear for motor driven vehicles, the combination of oppositely arranged clutches, one for each side of the vehicle, a truck frame on which said clutches are supported, a turn-table body supported on the truck frame to turn about a vertical axis, power transmitting instrumentalities for communicating power to said clutches from a source on said body and through said axis thereof to drive the vehicle, a cam mounted to rotate about said axis, mechanism supported on said truck frame and having means for engaging said cam



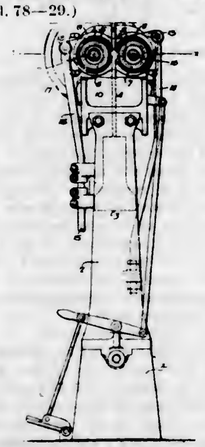
to control said clutches, and steering means on said body to rotate said cam.

1,388,670. FLUID-COMPRESSING APPARATUS. ROBERT SUCZEK, Philadelphia, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 21, 1918. Serial No. 212,936. 56 Claims. (Cl. 230—13.)



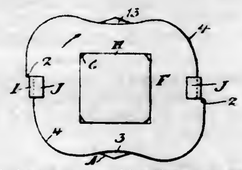
1. An ejector comprising central nozzle structure, and a group of nozzles surrounding said nozzle structure, the total throat area of said central nozzle structure being greater than the total throat area of said group of nozzles.

1,388,671. BOARD-HAMMER. HOWARD TERHUNE, Cleveland, Ohio. Filed Sept. 1, 1920. Serial No. 407,489. 3 Claims. (Cl. 78—29.)



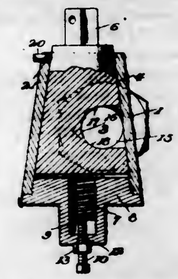
1. The combination in a board hammer, of standards; a hammer guided in the standards; a board attached to the hammer; two rollers arranged to engage the board and to lift the hammer; bearings at the upper end of the structure; rocking frames mounted eccentrically in the bearings; means for turning the rocking frames; bearings for the rollers mounted in the frames; and a driving shaft for each roller having its bearing in the rocking frame and passing freely through an opening in one end of the roller and attached at its inner end to the opposite end of the roller so that the wear of the shaft in its bearing will not affect the position of the roller in respect to the board.

1,388,672. LUBRICATOR. WILLIAM MCCRAE THURSBY, Watrous, Saskatchewan, Canada. Filed Apr. 21, 1921. Serial No. 463,271. 2 Claims. (Cl. 184—48.)



2. In a lubricator, in combination a grease cup provided with an internal thread; a plug, in part, externally threaded and adapted to co-act with said cup to feed the grease; a removable plate having a substantially central aperture shaped to conform to the shape of the external stem of said plug so that these parts cannot independently move to any considerable extent around the axis of the lubricator; a pair of resilient dogs externally carried by said cup on opposite sides thereof and each having an in-turned hook-shaped end which overhangs said plate; the periphery of said plate being rounded in opposite corners and recessed in opposite sides, and further provided with stops to co-act with said dogs, for the purpose specified.

1,388,673. VALVE. THOMAS EDGAR TRAINER, San Antonio, Tex. Filed Dec. 3, 1919. Serial No. 342,150. 2 Claims. (Cl. 251—92.)

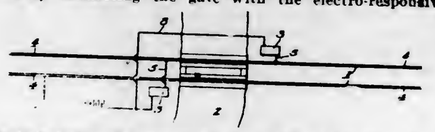


1. Valve mechanism including a casing having an inlet and an outlet, and a valve seat, said inlet and said outlet being in a direct line which is offset from the center line of said valve seat, and a solid plug having a passageway in one side adapted to communicate with said inlet and outlet, the walls of the passageway being substantially right angular at the inlet side of the plug and substantially circular throughout the main portion of its length and at the outlet side, said circular portion providing, in the full open position of the plug, a direct and unvarying line between the inlet and outlet of the valve casing.

1,388,674. CROSSING-GATE. SPIRO J. TSENES, St. Louis, Mo. Filed Mar. 29, 1921. Serial No. 456,728. 3 Claims. (Cl. 246—128.)

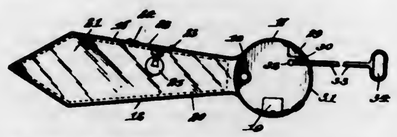
1. In combination with rails insulated from other rails of a track to provide a block over which a rolling stock travels, and electric conductors connected to the rails in

the block and in circuit with a source of electricity, of electro-responsive devices in said circuits, pivotally supported weight influenced gates, adjustable springs influencing the gates against their weighted means, means loosely connecting the gate with the electro-responsive



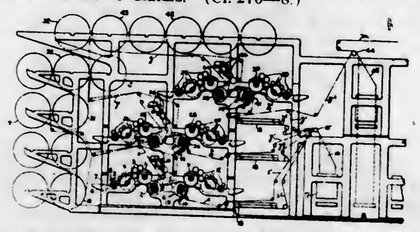
means, and buffer means actuated by the electro-responsive means when the same is energized and influences the gates to closed position when a rolling stock travels in the block, and said buffer means also influencing the gates against their weighted means for preventing the rapid swinging of the gates to their elevated positions.

1,388,675. VEHICLE-SIGNAL. THOMAS TURNER, JOHN E. KESSLER, and WILLIAM L. HIGGINS, Huntington, W. Va. Filed Feb. 9, 1920. Serial No. 357,393. 1 Claim. (Cl. 177—311.)



A vehicle signaling device comprising a pivotally mounted hollow casing having a substantially circular base and a pointed arm extending therefrom, said casing being divided into a switch compartment and a signal compartment, the latter including the arm and having opposite transparent walls, an electric lamp located within the signal compartment and included in an electric circuit, an operating lever having one end pivotally secured within the switch compartment and its opposite end extending through a slot in the casing, a normally open switch located in the switch compartment in the path of the operating lever and connected in the lamp circuit, whereby when the signal is moved to an active position, the lever will engage and close the switch.

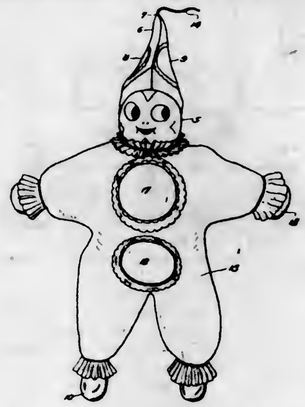
1,388,676. PRINTING-PRESS. JOSEPH J. WALSER, Ann Arbor, Mich., assignor to Goss Printing Press Company, a Corporation of Illinois. Filed Mar. 12, 1920. Serial No. 365,283. 8 Claims. (Cl. 270—8.)



1. A printing press including in combination a rotary printing couple printing one side of a web, a rotary couple printing the other side of the web, and a rotary late news device separate from but located adjacent to the printing couple, and means directing the web alternatively primarily to the printing couple or to the late news device to cause the late news device to selectively print upon one side or the other of the web.

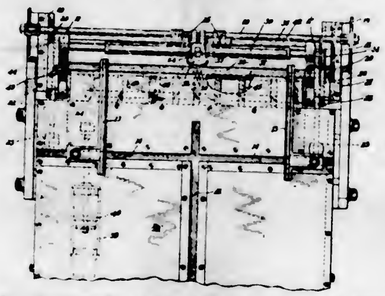
1,388,677. DOLL. BESSIE M. WEATHERLY, Rome, Ga. Filed Aug. 9, 1920. Serial No. 402,133. 3 Claims. (Cl. 46—40.)

1. A doll of the class described, comprising a stuffed fabric body and foot and hand members, flexible strips connecting said foot and hand members to said body, and a head carried by the upper end of said body and having a comparatively stiff connection therewith, a loose bifurcated dress encompassing said body and limbs, the legs



and sleeves being gathered at their free ends and secured to said hands and feet, adjacent their connection with said strips, and combined props and ornaments mounted on the front of said dress and adapted to assist in holding the doll in erect sitting posture.

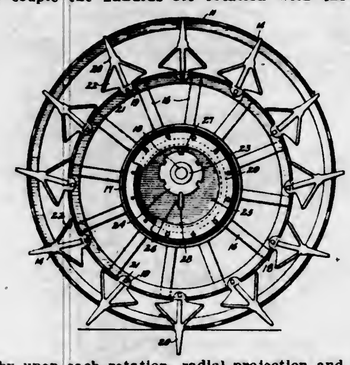
1,388,678. SHEET-FEEDING MECHANISM. WILLIAM A. WEIGHTMAN and CHARLES H. NITSCH, Philadelphia, Pa., assignors to Stokes and Smith Company, Summerdale, Pa., a Corporation of Pennsylvania. Filed Oct. 31, 1919. Serial No. 334,646. 12 Claims. (Cl. 271—29.)



2. In sheet feeding apparatus, a stationary support for a pack of sheets, a reciprocating carrier, sheet engaging means movably mounted on said carrier and located beneath the pack, means for shifting said engaging means during the forward movement of said carrier to engage the end of said bottom sheet and operable during the return motion of the carrier to retract the engaging means and bend said end away from the pack, means controlled in accordance with carrier movement and having sheet-gripping engagement only substantially at the end of return movement of the carrier for gripping said end, withdrawing the sheet from the pack, and feeding it forward, and means for releasing said sheet engaging means prior to the operation of said gripping means.

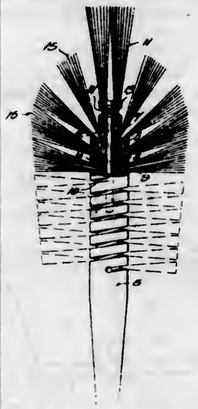
1,388,679. TRACTOR-WHEEL. EVERETT HOUSTON WHITING, Santa Rosa, Calif. Filed May 27, 1920. Serial No. 384,659. 8 Claims. (Cl. 301—48.)

7. A tractor wheel comprising a hollow ground engaging wheel having a plurality of openings in the tread thereof, an axle spindle upon which said wheel is concentrically mounted, a cam secured to said spindle, an annulus mounted on the cam, traction elements pivoted to the outer periphery of the annulus having their free extremities arranged in the openings, said traction elements serving to couple the annulus for rotation with the wheel



whereby upon each rotation, radial projection and retraction of the traction elements will be effected at opposite points in its cycle of rotation.

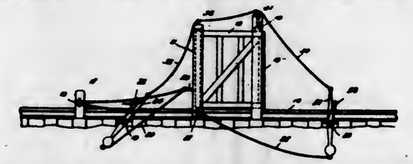
1,388,680. BRUSH. ADOLPH RICHARD WIENS, Omaha, Nebr. Filed Aug. 18, 1919. Serial No. 318,161. 2 Claims. (Cl. 141—7.)



1. A brush of the class described comprising a wooden stem having circumferentially extending bristle seating grooves adjacent one end and an axial bore in said end, a combined reinforcing and end tuft carrying rod disposed in said bore and having one end projecting beyond the end of the stem, end tuft bristles, means for securing the end tuft bristles to the exposed end of the rod, the other or shank portion thereof serving to reinforce said stem, bristles disposed in said grooves, and a retaining wire wound in the core grooves to secure the bristles therein, one end being attached to the stem and the other end anchored to said rod between the end of the stem and the end tuft bristle securing means.

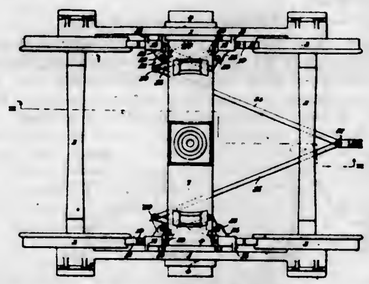
1,388,681. AUTOMATIC TRAPDOOR FOR MINES. WILLIAM W. WINGO, Wilburton, Okla. Filed May 14, 1920. Serial No. 381,351. 2 Claims. (Cl. 246—299.)

1. In combination with a track way, a vertical, pivoted, gravity controlled door disposed transversely of the track way, rock shafts journaled transversely of the track way on opposite sides of the door, car engaging lugs carried by the rock shafts and positioned in the track way, weighted levers carried by the outer ends of the rock shafts, an offset latch post and latch carried thereby, flexible elements connecting the said levers with the gate and latch whereby the gate is open when the



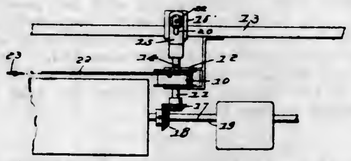
rock shafts are actuated and automatically closed after the car passes the gate.

1,388,682. RAILWAY-CAR BRAKE. JOHN WISNIEWSKI, Milwaukee, Wis. Filed Oct. 19, 1920. Serial No. 417,970. 8 Claims. (Cl. 188—53.)



1. A railway car brake comprising in combination with the side bars of a truck frame, mounting brackets, a lever pivoted in each bracket, a brake shoe resiliently mounted in the brackets, a foot extension carried by each lever for engagement with an adjacent brake shoe and operating means for the levers.

1,388,683. PULLING APPARATUS FOR AUTOMOBILES. JOSEPH H. WOOD, Blanks, La. Filed June 2, 1920. Serial No. 385,875. 1 Claim. (Cl. 254—166.)

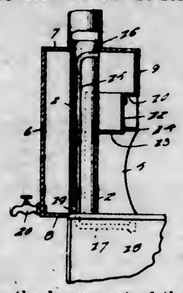


A pulling attachment for motor vehicles having a revoluble drum, a pulling cable having one terminal attached to said drum, a drum shaft having a key and slot connection with the drum to permit relative axial movement of the same with respect to the drum, a gear couple of which one unit is attached to one terminal of said shaft and the other unit designed for attachment to the transmission shaft of the vehicle, a guide for attachment to the vehicle frame, the said drum shaft being provided with a head carried in said guide, and means for locking the head in adjusted positions in the guide for the purpose specified.

1,388,684. WATER-HEATER. WILLIE WRIGHT, Thomasville, Ga. Filed Nov. 8, 1919. Serial No. 336,640. 1 Claim. (Cl. 126—34.)

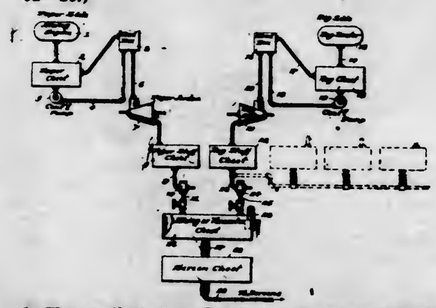
A water heater for stoves comprising a chamber having a smoke pipe projecting upwardly therethrough, the rear wall of said chamber being bent backwardly to form a curved water circulating space about said smoke pipe, said chamber having an overhanging part at the upper front portion thereof, and a water circulating tube open-

ing into the overhanging part and passing downwardly through said pipe and into the fire box of the stove and



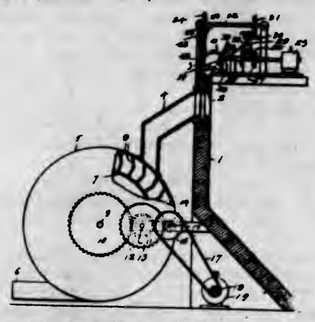
also opening into the lower part of the curved space beforementioned.

1,388,685. METHOD OF AND APPARATUS FOR PRODUCING FELT PAPER OR FELT. GEORGE R. WYMAN, East Walpole, Mass., assignor to Bird & Son, Inc., East Walpole, Mass., a Corporation of Massachusetts. Filed Sept. 3, 1918. Serial No. 252,374. 4 Claims. (Cl. 92—20.)



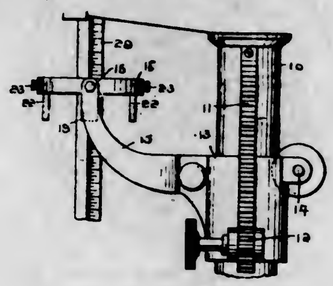
1. That method of producing felt for use in the manufacture of roofing material, which consists in producing paper stuff and passing it through a paper jordan to a paper stuff chest; producing rag stuff and passing it through a rag jordan to a rag stuff chest; discharging said stuffs in the proper portion, to produce a felt which has the desired degree of absorptiveness, into a mixing chest; then discharging such admixed pulp into a chest leading to screens; and finally forming the sheet from said admixed screened stuff.

1,388,686. GATE-OPERATING MECHANISM FOR WATER-WHEELS. WILLIAM ZAUGG, Chattanooga, Tenn. Filed Apr. 16, 1920. Serial No. 374,375. 3 Claims. (Cl. 253—136.)



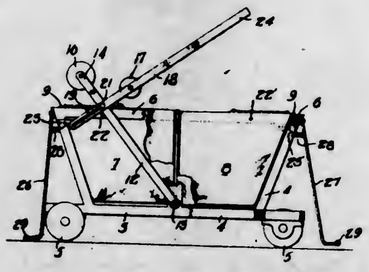
1. In a gate operating mechanism for the purpose described, means operable to move the gate in opposite directions, and control means operable through movement of the gate to determine the direction of movement of the first means.

1,388,687. ENGRAVING-MACHINE. CHARLES RALPH ZIMMERMAN, Memphis, Tenn. Filed July 3, 1920. Serial No. 393,948. 6 Claims. (Cl. 33—24.)



1. In a universal fulcrum for the transmitter of an engraving machine, an intermediate supporting element having an adjustable pivotal mounting, recessed members carried by the supporting element arranged intermediate the pivotal mountings of the latter, a transmitter engaging element, and adjustable pivotal members carried by the transmitter engaging element relatively engageable in the recesses.

1,388,688. MOP-WRINGER. NICHOLAS BAILHACHE, Berkeley, Calif. Filed Jan. 12, 1920. Serial No. 350,785. 1 Claim. (Cl. 15—12.)

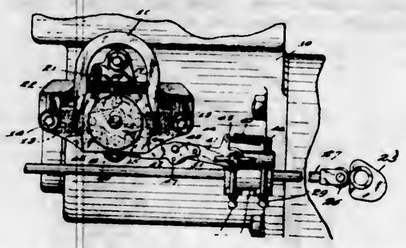


A device of the class described comprising a frame mounted upon wheels and adapted to removably support a pair of buckets thereon, arms pivoted to the opposite sides of said frame, a roller supported by said arms and arranged to overlie either of said buckets, a lever, a roller mounted on said lever and arranged to coöperate with said first roller, and connections between said lever and said arms whereby said second roller may be moved to coöperate with said first roller from either of the opposite sides of the latter.

1,388,689. IGNITER TRIP MECHANISM. ARTHUR B. BAKER, Indianapolis, Ind., assignor, by mesne assignments, to Charles G. McCutchen, Indianapolis, Ind. Filed Aug. 11, 1919. Serial No. 316,735. 13 Claims. (Cl. 123—149.)

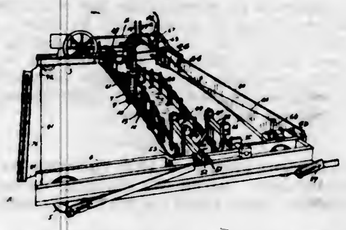
1. A magneto having an oscillating movable member which is spring-pressed to one position, in combination with a pushing member, a breakable toggle forming a thrust interconnection between said pushing member and said oscillating movable member, and a toggle-breaking

member carried by said oscillating movable member and engaging one part of said toggle to cause the toggle to



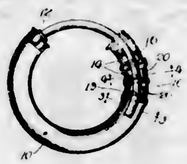
break upon a predetermined movement of said oscillating movable member.

1,388,690. PAVING APPARATUS. ROBERT D. BAKER, Detroit, Mich. Filed Aug. 11, 1915. Serial No. 44,916. 26 Claims. (Cl. 94—45.)



1. In a paving apparatus, the combination of a frame, a surfacing section mounted on the frame, a rotary shaft, a knocker on the shaft, and a projection on the surfacing section in the path of the knocker, whereby a vibration of the surfacing section is effected.

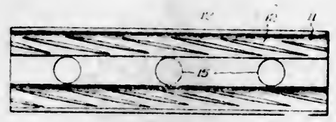
1,388,691. PERMUTATION LOCKING-RING. GEORGE BENTLEY BERGEN, Chicago, Ill. Filed Feb. 6, 1919. Serial No. 275,303. 6 Claims. (Cl. 70—19.)



1. In a locking device, the combination of a hollow, incomplete annulus, an arcuate bolt movable in said annulus and adapted to complete the same, a plurality of locking cylinders mounted within the annulus and adapted to surround the bolt, each of said cylinders being provided with a notch, and projections on said bolt adapted to coöperate with the notches when the cylinders are properly disposed, substantially as described.

1,388,692. METHOD OF MANUFACTURING GUY-CLAMPS. ANTHONY J. BLAESER, Chicago, Ill., assignor to Joslyn Mfg. & Supply Co., Chicago, Ill., a Corporation of Illinois. Filed May 19, 1921. Serial No. 470,778. 4 Claims. (Cl. 24—135.)

1. The method of making guy clamps, which consists in rolling strips of metal to provide on one flat surface a pair of parallel, longitudinal grooves having helical grooves disposed therein, then severing sections of desired length therefrom and punching said sections, and then assem-



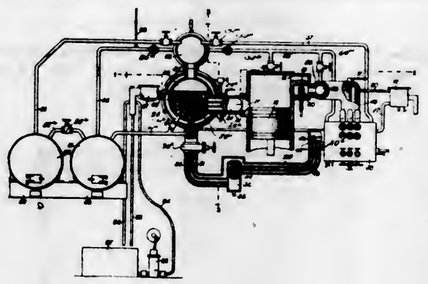
bling promiscuous sections to form properly coöperating clamps for guy cables.

1,388,693. LEAD-FEEDING PENCIL. LORING L. BLAKE, Chicago, Ill., assignor to Blake Pencil Co., Chicago, Ill., a Corporation of Illinois. Filed June 26, 1920. Serial No. 391,970. 10 Claims. (Cl. 120—18.)



8. In a lead-feeding pencil, a tubular casing, a lead-holder movable therein, a handle member rotatable on the casing, means associated with the handle member and the lead-holder for causing a rotation of the former to move the lead-holder longitudinally of the casing, and a plurality of means for latching the handle member in the casing, the said latching means being arranged for releasing the handle member from the casing after a plurality of successive rotational movements of the handle member with respect to the casing, the handle member having a threaded collar equipped with a lateral recess; the latching means including an inwardly projecting finger fast with respect to the casing and adapted to pass by the said shoulder when the recess in the latter is in alinement with the finger, and a flange fast within the casing back of the finger and threaded to match the threading on the collar.

1,388,694. POWER PLANT. OLE K. BOGSTRAND, Brooklyn, N. Y. Filed May 12, 1917. Serial No. 168,118. 7 Claims. (Cl. 123—122.)

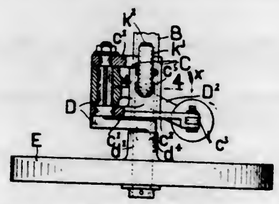


1. In a power plant, the combination with an internal combustion engine having a plurality of cylinders and an exhaust manifold, of a pair of drums having heating pipes communicating with said manifold, means for passing any desired portion or all of the products of combustion either through said manifold or through the heating pipes, and means for supplying water to one of said drums and oil to the other as and for the purpose specified.

1,388,695. VEHICLE-SPRING. FRANZ BÖMINGHAUS, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,095. 4 Claims. (Cl. 301—133.)

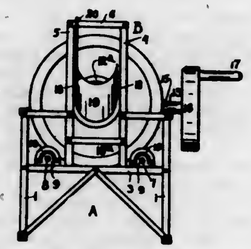
1. In a vehicle suspension mechanism, the combination with an axle of a limb or extension thereof, a bearing

piece in which said limb is mounted parallel to and eccentrically of the axle but with its pin substantially coaxial



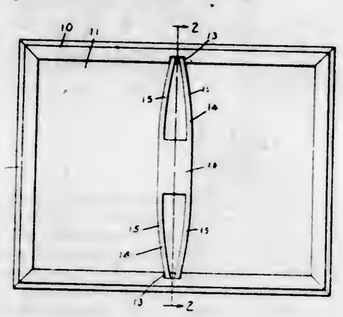
with the axle, and a spring arranged to take up relative motion between the limb and axle.

1,388,696. DISCHARGE-CHUTE. JOHN W. BRABANT, La Crosse, Wis. Original application filed July 3, 1917, Serial No. 178,498. Divided and this application filed Nov. 21, 1917. Serial No. 203,088. 7 Claims. (Cl. 193—29.)



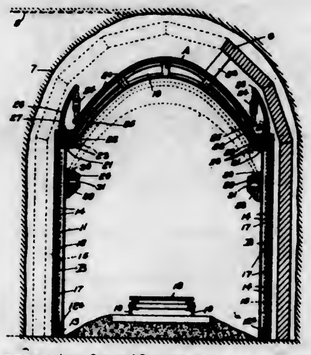
1. In a discharge chute, the combination of a frame, a discharge chute, a loose connection between the center of the chute and the frame permitting the chute to be moved to discharging and to non-discharging position, and means for holding the chute in non-discharging position, the chute when released being adapted to automatically adjust and hold itself in discharging position.

1,388,697. RETAINING MEANS FOR FRAMES. CARL F. BRECHT, Indianapolis, Ind. Filed Oct. 2, 1920. Serial No. 414,345. 3 Claims. (Cl. 40—156.)



1. In combination with a frame having a glass mounted therein, of a display and a backboard for retaining said display in position in said frame, said frame being provided with a plurality of notches therein extending transversely thereof, of a retaining member comprising resilient prongs each prong being adapted to engage a transverse side of a notch for holding said display and backboard therein.

1,388,698. METHOD OF AND APPARATUS FOR WIDENING TUNNELS. CHRISTIAN BRYNOLDT, Pittsburgh, Pa., assignor to Blaw-Knox Company, a Corporation of New Jersey. Filed July 22, 1918. Serial No. 246,238. 13 Claims. (Cl. 61—84.)



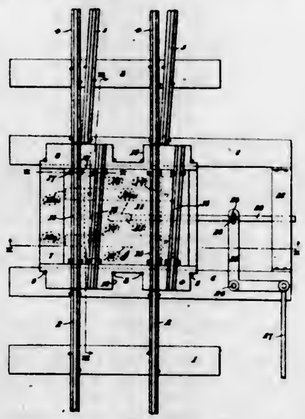
11. In apparatus for widening the bore of existing tunnels, the combination of a temporary, knockdown shield fitting within the tunnel but clear of the wall to be removed, said shield comprising side and arch members adapted to be detachably secured together to straddle the roadway so as not to interfere with traffic thereon, and means for moving the shield members.

1,388,699. FOOD PRODUCT AND PROCESS OF PREPARING SAME. RALPH W. CROCKER, Chicago, Ill. Filed May 26, 1919. Serial No. 299,898. 3 Claims. (Cl. 99—8.)

1. A method of preparing and preserving food for market, comprising finely chopping and thoroughly mixing meat with milk and a little flour; filling the mixture into molds; subjecting the molds to heat, whereby is accomplished a slight shrinkage and skin formation without substantial change of form or size; filling cans with the masses thus molded; and sterilising and sealing them.

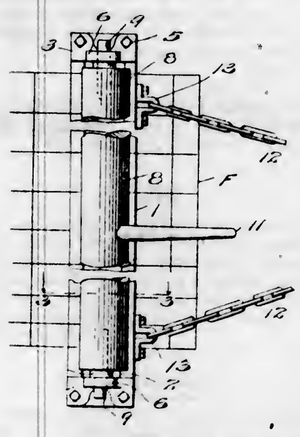
3. A canned food product comprising a combination of finely chopped meat and milk, thoroughly mixed; in pasty condition and having a skin made from the material thereof and externally non-adhering.

1,388,700. RAILWAY-SWITCH. ALBERT CWOJNA, Carnegie, Pa. Filed May 5, 1921. Serial No. 466,953. 5 Claims. (Cl. 246—430.)



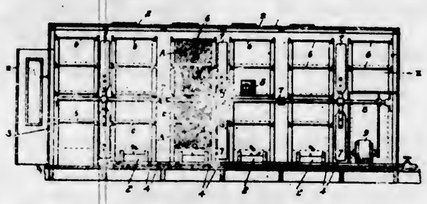
1. A railway switch of the type described comprising in combination with fixed rail sections, a rigidly mounted base plate, a switch rail supporting plate slidably mounted on the base plate and adapted to bodily move the switch rails for alining with the fixed rail sections and cooperating means carried by the base plate and switch rail supporting plate for limiting the movement of the switch rail supporting plate, said means including elongated openings formed in the base plate and cleats carried by the other plate received in said openings and of less length than said openings.

1,388,701. FENCE-WIRE CLAMP. DARGAN P. ELLIOTT, Rimini, S. C. Filed May 14, 1921. Serial No. 469,617. 2 Claims. (Cl. 254—83.)



1. In a device as described, the combination with a grooved base bar having end brackets and open, angular bearing slots in said brackets, of a clamp bar co-acting with said grooved bar, a handle bar on said clamp bar, and eccentric bearing pins at the ends of said clamp bar seated in said slots in the end brackets.

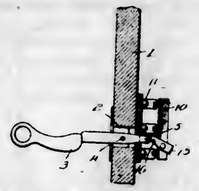
1,388,702. METHOD OF AND APPARATUS FOR DRYING MACARONI AND THE LIKE. ALEXANDER GALLERANI, Pittsburgh, Pa., assignor to H. J. Heinz Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Apr. 6, 1920. Serial No. 371,638. 6 Claims. (Cl. 34—19.)



1. The herein described method of drying macaroni and the like, hung fringe like from a support, which consists in maintaining the material in an atmosphere adequate to effect drying and, while so maintaining it, subjecting it to swaying impulses, alternately opposite in direction and operative in abrupt succession one upon another.

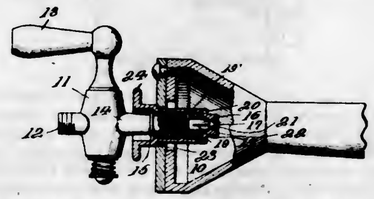
1,388,703. RECEIVER-HOOK SWITCH. JOHN T. GRAY, Great Falls, Mont. Filed Aug. 13, 1919. Serial No. 317,232. 3 Claims. (Cl. 179—164.)

1. A receiver hook switch for telephones comprising a pivoted receiver hook, fixed contacts, interconnected switch arms coöperating with said fixed contacts and a cam for actuating said switch arms, said cam being disposed in the path of the inner end of the receiver hook and



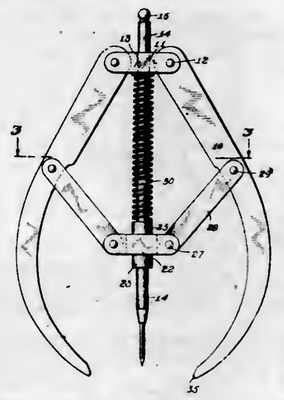
operable thereby to correspondingly close and open the circuits controlled by the switch.

1,388,704. FLOW-REGULATING DEVICE FOR GAS-BURNERS. JOHN T. GRIFFIN, Baltimore, Md. Filed Feb. 24, 1921. Serial No. 447,603. 16 Claims. (Cl. 67—121.)



1. A gas regulator of the character described comprising a regulator tube having means whereby it may be adjustably connected with a burner cock, means for locking said tube in any adjusted position, and regulating means carried by the locking means for controlling the volume of gas discharged through said regulator tube.

1,388,705. CALIPERS. WILLIAM HENRY HARRIS, Laurium, Mich. Filed Feb. 18, 1921. Serial No. 446,021. 3 Claims. (Cl. 33—191.)

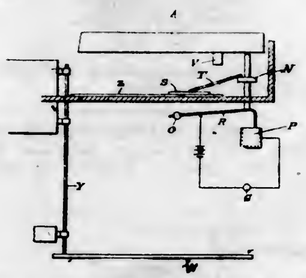


1. A device of the class described comprising legs, a member pivotally connected to said legs, a centering rod rigidly secured to said member, a slide movably mounted on said rod, links operatively connecting said slide with said legs, and a helical spring interposed between said slide and the member to which the legs are pivotally connected.

1,388,706. APPARATUS FOR PRODUCING COLOR-MUSIC. ALEXANDER BURNETT HECTOR, Greenwich, near Sydney, New South Wales, Australia. Filed July 9, 1917. Serial No. 179,460. 3 Claims. (Cl. 84—464.)

1. In an apparatus of the character described, the combination with a keyed musical instrument, of means

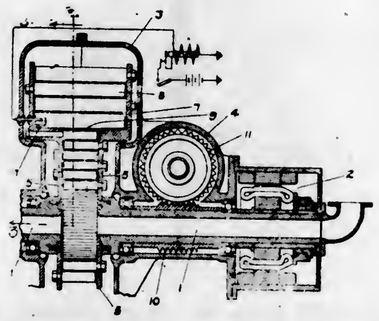
for displaying a variety of colors corresponding to the several notes struck, circuit closing devices operated by the several keys for controlling said displaying means, each of said circuit closing devices comprising a mercury cup and a lever having a portion adapted to dip into said cup, and a coupler mechanism coöperating with said controlling devices for causing a plurality of said colors to be simultaneously displayed upon operation of a single key.



2. In an apparatus of the character described, the combination with a musical instrument and means controlled thereby for producing varied color effects in accordance with the notes sounded by said instrument, of means under the control of the player and including one or more electric contacts and one or more electro-magnetic relays having a time element for varying the operation of said color producing means to produce a sustained effect therein.

3. In an apparatus of the character described, the combination with a musical instrument and illuminating means controlled thereby for projecting a variety of colors in accordance with the notes sounded by said instrument, of means controlled by said instrument for discharging a body of fluid upon which said colors are projected.

1,388,707. TURBINE. JOHN O. HEINZE, Boyne City, Mich. Filed Oct. 1, 1918, Serial No. 256,449. Renewed Jan. 7, 1921. Serial No. 435,756. 3 Claims. (Cl. 60—41.)



1. A turbine engine having opposed rotor disks, and having an inner compression and suction chamber, and an outer concentric expansion and combustion chamber of greater area than the first chamber.

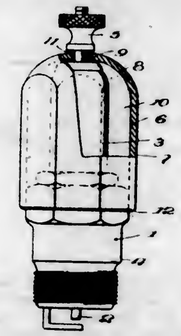
1,388,708. EXTENSION-TABLE. JOHN HERMANS, Vancouver, Wash. Filed Apr. 1, 1920. Serial No. 370,407. 3 Claims. (Cl. 45—113.)

1. An extension table comprising a rigid top frame including slotted cross rails and a central transversely disposed cross piece, adjustable inner and outer leaves normally supported upon the frame in the plane of the cross piece, permanent leaves supported by the cross piece and normally overlying the adjustable leaves, the outer adjustable leaves having cross bars supporting handles, and arms carried by the several adjustable leaves and coöperating with the slots of the cross rails, said arms of



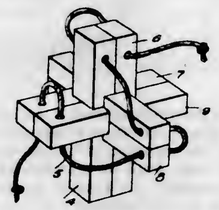
the outer adjustable leaves having angular pieces at their inner ends engageable with the inner ends of the arms of the inner leaves to cause simultaneous outward movement of the inner and outer leaves during a portion of the outward movement of the outer adjustable leaves, as and for the purpose described.

1,388,709. PROTECTING-SHELL FOR SPARK-PLUGS. IRL R. HICKS, Centralia, Mo. Filed Dec. 5, 1918. Serial No. 265,422. 2 Claims. (Cl. 123—169.)



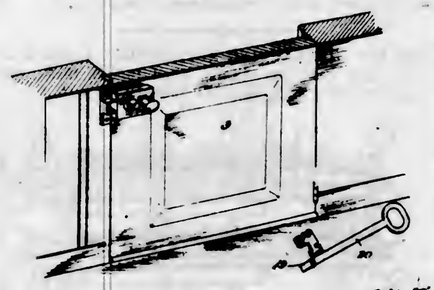
1. A protecting shell for spark plugs comprising a cylindrical body having a convexed closed end and an opposite open end, said closed end having a central aperture therein adapted to receive the central electrode of said plug when the body is telescoped thereover, said body being freely removable therefrom, and being of a diameter considerably greater than the upper portion of the plug to space the inner surface of said body from the shell of the plug and having its open end shaped correspondingly to the shell of said plug to snugly embrace the same.

1,388,710. PUZZLE. CLINT T. HIME, Hindes, Tex. Filed Aug. 24, 1920. Serial No. 405,776. 2 Claims. (Cl. 46—41.)



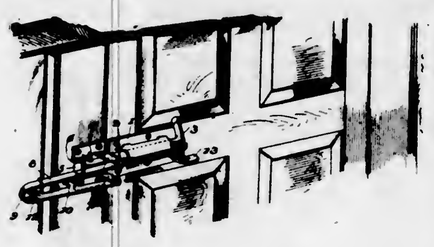
1. The combination of a puzzle made up of a plurality of bars having central notches and lugs in the notches designed to interengage, and a wedge bar for locking the remaining bars in the shape of a Chinese cross; of a flexible element slidable through one end of each of the bars and the ends of the said flexible element being knotted.

1,388,711. LOCK. CARL HOFFMAN, Allentown, Pa. Filed July 16, 1920. Serial No. 396,695. 7 Claims. (Cl. 70—29.)



2. A door lock including a spring tensioned lock-latch, an actuating spindle therefor, a handle for operating said spindle from inside the door, said spindle being operable by a key from outside the door, a guard plate having an aperture through which the key must be projected to engage said spindle, and a tumbler controlled actuating slide to shift said plate.

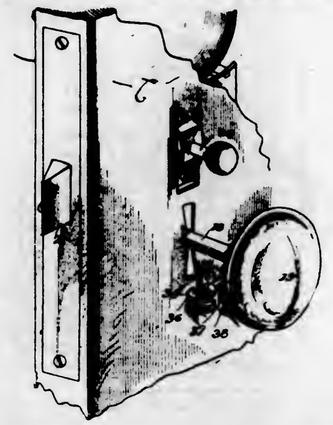
1,388,712. DOOR-BOLT. CARL HOFFMAN, Allentown, Pa. Filed July 16, 1920. Serial No. 396,696. 3 Claims. (Cl. 292—262.)



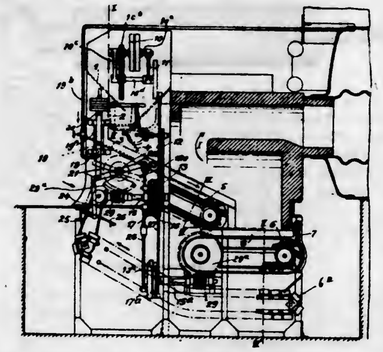
1. A fastening device for a door including a sliding bolt, a keeper on the door frame to receive said bolt, an auxiliary keeper also on the door frame and with which said bolt may be caused to engage to lock the door in a partly opened position, and means in part carried by said bolt and in part by said auxiliary keeper to maintain said bolt and said auxiliary keeper in locked engagement, said bolt being adapted for turning movement to free it of engagement with said auxiliary keeper.

1,388,713. LOCK. CARL HOFFMAN, Allentown, Pa. Filed July 16, 1920. Serial No. 396,697. 5 Claims. (Cl. 70—29.)

1. In a lock, a tensioned lock-latch, an actuating lever therefor, a handled spindle for operating said lever, tumbler controlled means for engaging and moving said lever to retract said lock-latch, and a tumbler controlled means for locking said lever against movement, in combination with a key for effecting movement of each of said last mentioned means.



1,388,714. MECHANICALLY-STOKED FURNACE. ALFRED HOFMANN, Zurich, Switzerland. Filed Oct. 31, 1918. Serial No. 260,560. 2 Claims. (Cl. 110—40.)



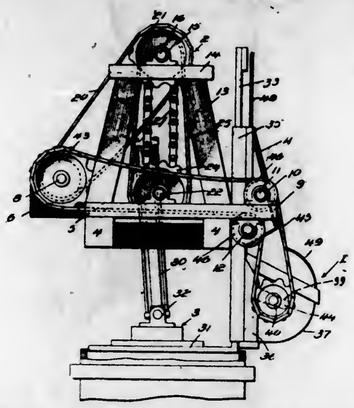
1. In a furnace, an inclined upper traveling grate, a lower traveling grate extending partially beneath the upper grate and receiving the fuel directly dropping from the upper grate and conveying away the slag, means for driving the traveling grates at adjustable different speeds, and boiler steam controlled means for regulating the air supply and the conveying away of the slag to suit the steam consumption.

1,388,715. COTTON-TRAMPER. ANDREW J. HOPKINS, Kaufman, Tex. Filed Oct. 8, 1919. Serial No. 329,249. 6 Claims. (Cl. 100—25.)

1. A device for tramping cotton comprising a tramping member and a feed member, a closure carried by said tramping member for regulating the amount of cotton transmitted by the feed member to the tramping member and means carried by said closure for regulating the amount of cotton transmitted to the feed member.

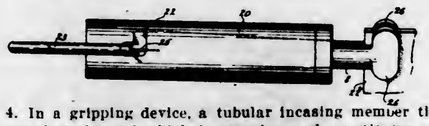
5. A device for tramping cotton comprising a tramping member and a feed member, a partition having openings therein carried by said tramping member for regulating the quantity of cotton delivered by the feed member to the tramping member, a movable cover carried by the partition for limiting the amount of cotton delivered to

the feed member, means for limiting the movement of the cover with respect to the feed member and means for



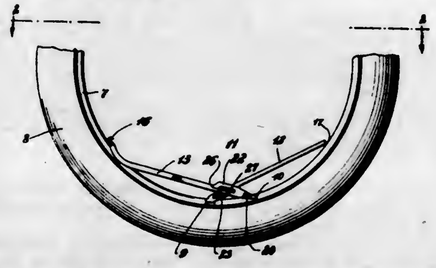
simultaneously actuating said feed member and tramping member.

1,388,716. DEVICE FOR TIGHTENING CABLES. THOMAS JEFFERSON HUGHES, Seattle, Wash. Filed Apr. 12, 1920. Serial No. 373,440. 5 Claims. (Cl. 24—136.)



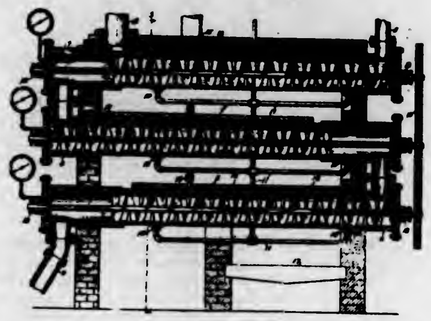
4. In a gripping device, a tubular incasing member the internal surface of which is tapering and constitutes an internal wedge, a plurality of gripping members positioned for frictional contact with said internal wedge surface of the incasing member, said gripping members being exposed at one end beyond the incasing member and said exposed portions constituting gripping jaws unitary with said gripping members, and a strain-applying member connected with said incasing member.

1,388,717. AUTOMOBILE-TIRE TOOL. WILLIAM T. IVEY, Lyons, Ga. Filed Jan. 9, 1920. Serial No. 350,337. 1 Claim. (Cl. 157—1.)



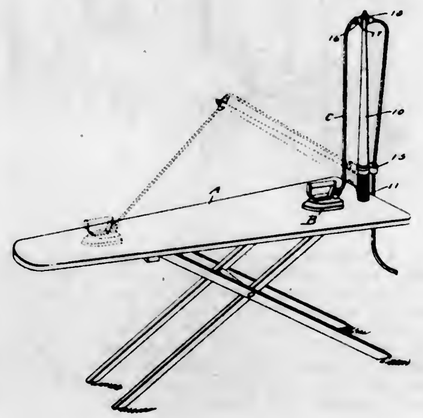
A tool for split auto rims comprising an outer yoke-shaped member, including a pair of parallel arms having alined notched elongated slots therein adjacent the free ends thereof and a connecting member having spaced elongated slots therein, adjustable hooks slidably mounted in the slots in said connecting member, inwardly extending lugs formed integrally with the free ends of said arms, an inner yoke-shaped member of a shorter length than the outer yoke-shaped member, including a pair of spaced parallel arms having alined elongated slots therein adjacent to the free ends thereof and a connecting member forming an operating handle therefor, inwardly extending lugs formed integrally with the free ends of the last mentioned arms, a headed shaft provided with a threaded end passing through the slots in the arms of said yoke-shaped members and loosely connecting the same and a thumb-screw carried by the threaded end of said shaft.

1,388,718. EXTRACTING APPARATUS. JAMES B. JENSON, Salt Lake City, Utah. Filed June 8, 1918. Serial No. 238,966. 8 Claims. (Cl. 196—19.)



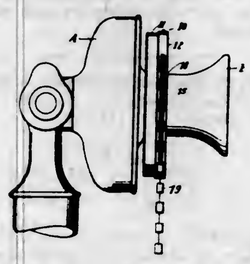
6. In an extracting apparatus of the class described, a plurality of interconnected superimposed units, each unit being in the shape of an elongated completely closed cylinder, means for supplying heat to said units, a revolving conveyer in each of the units mounted eccentrically therein at the bottom so that a clearance space is formed between the conveyer and the upper side of the unit, and means to cause obstruction of the passage of material at the discharge end of each unit.

1,388,719. ELECTRIC IRON. JAMES W. JOHNSTON, Salt Lake City, Utah. Filed Apr. 5, 1920. Serial No. 371,409. 2 Claims. (Cl. 219—23.)



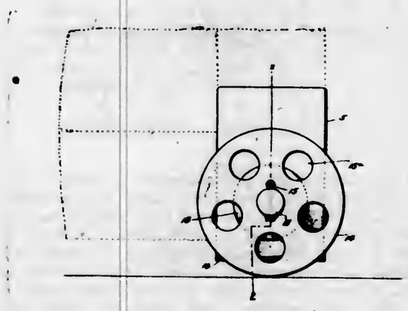
1. The combination with an electric device and its conductor, of a support, an arm arranged above the support, a coiled spring providing a connection between the arm and support whereby the arm is mounted for universal movement, and means carried by the arm and associated with said conductor whereby the latter is held taut between its point of connection with the arm and said electric device.

1,388,720. TELEPHONE ATTACHMENT. CHARLES EDWARD JONES, New York, N. Y. Filed May 17, 1920. Serial No. 382,093. 1 Claim. (Cl. 179—188.)



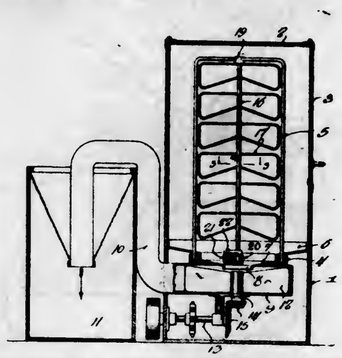
A telephone attachment comprising a casing formed of detachably connected sections, one section being formed with an outwardly extending central flange externally threaded for engagement within the threaded hole of a telephone transmitter and the other section being formed with a central internally threaded hole for engagement therein of the threaded end of the telephone mouth piece, a shutter pivoted within said casing and including a relatively large plate-like head portion and a relatively long and narrow extension constituting a handle, the side of the casing being formed with a slot through which said handle extension extends, said shutter being formed at one end of the head portion with a hole adapted to register with the hole encircled by said flange, and a leaf spring secured within the casing and engaging said head portion for normally holding the shutter with the hole therein registering with the hole in the transmitter.

1,388,721. CASTER. THOMAS J. KEEPING, Los Angeles, Calif. Filed Feb. 24, 1921. Serial No. 447,573. 2 Claims. (Cl. 280—58.)



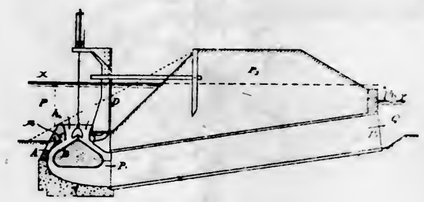
1. In a device of the class described comprising an L-shaped supporting pedestal, a horizontal spindle removably secured to the vertical wall of said pedestal and in proximity to the bottom thereof, a wide caster wheel journaled on said spindle, and a plurality of removable, sharp, securing members on the horizontal base of said pedestal.

1,388,722. BAG-CLEANING APPARATUS. JOHN M. KELLY, Manitowoc, Wis. Filed Sept. 21, 1920. Serial No. 411,691. 4 Claims. (Cl. 15—8.)



1. In an apparatus of the class described, a supporting base, a bag holding frame on the base, a shaft journaled in said frame, beater arms extending from the shaft, and means for oscillating the shaft to intermittently engage the beater arms with a bag disposed on said frame.

1,388,723. DEVICE FOR CONTROLLING A SUPPLY OF WATER FOR IRRIGATION OR OTHER PURPOSES. ROBERT G. KENNEDY, Sidney, Vancouver Island, Canada; The Royal Trust Company executor and trustee of the will of said Robert G. Kennedy, deceased. Filed Sept. 19, 1918. Serial No. 254,795. 8 Claims. (Cl. 61—23.)

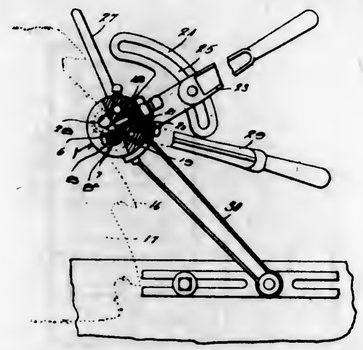


1. In devices for controlling water supply, the combination of a flume having contracted and expanded parts connecting a supply channel, with an outfall channel, means for subjecting water at the contracted part to atmospheric pressure for artificially increasing the velocity head of the water whereby the discharge passing the contracted part is independent of the outfall level, and means for varying the area of the contracted part for varying the discharge passing therethrough.

1,388,724. SAW-SWAGE. HENRY M. KING, Clayton, Okla. Filed Aug. 23, 1919. Serial No. 319,335. 1 Claim. (Cl. 76—54.)

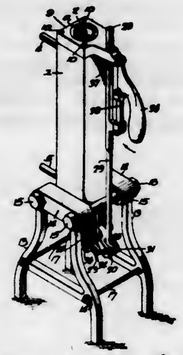
A saw swage comprising a body having openings and a saw receiving slot, an anvil carried by said body, a spindle extending through the openings and slot and having concentric outer portions located in the openings and one of said portions spaced from the wall of its respective opening, and of a diameter less than the diameter of the other portion, a sleeve on the small concentric portion and engaging the wall of said last opening and having one end extending beyond the body and provided with an annular groove, a plate pivoted to the body and having a curved edge engaging the groove, an eccentric portion formed on the spindle and located in the slot, a ring mounted on said

eccentric portion and engaging the large concentric portion at one end and engaging the sleeve at its other end and of



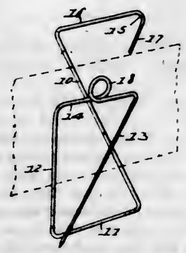
a diameter greater than the diameter of the small concentric portion, and an operating means for the spindle.

1,388,725. MOLD FOR CASTING PIGS FOR LINOTYPE-MACHINES. JOHN H. W. KNOOP, Upper Darby, Pa. Filed Nov. 2, 1920. Serial No. 421,346. 6 Claims. (Cl. 22—148.)



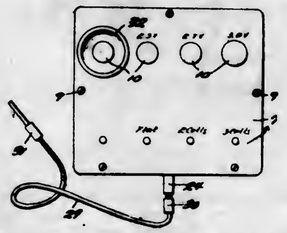
1. The combination in a mold for casting metallic pigs, of a mold body; a plug adapted to extend into the mold chamber; and means for actuating the plug so that it will first be withdrawn and then moved clear of the path of the pig, as the pig is discharged from the mold.

1,388,726. TAG-HOLDER. JOHN L. KOLBE, Wauwatosa, Wis. Filed June 13, 1919. Serial No. 303,926. 2 Claims. (Cl. 40—26.)



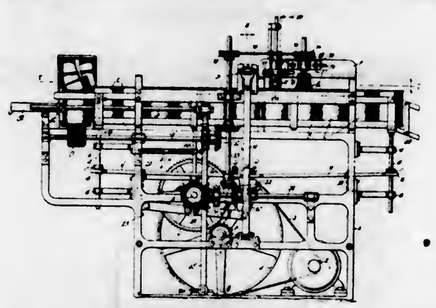
1. A holder for the purpose indicated formed from a single strand of wire bent to provide two substantially triangular frames with their bases oppositely disposed, the said frames having a spring tendency toward each other to permit the insertion therebetween of a tag to be supported, the leg of one of the frames constituting the free terminal of the wire having a spring tendency toward its attendant frame to permit the insertion of the tag between it and its frame, the remaining terminal of the wire having a pointed extremity for engagement with the bolt or wrapping of an article in connection with which the tag is to be displayed.

1,388,727. BATTERY-TESTER. LEWIS LINCOLN LASKA, Cordova, Alaska. Filed Aug. 9, 1919. Serial No. 316,411. 2 Claims. (Cl. 175—183.)



1. A battery tester including a body plate, a plurality of incandescent lamps supported therein, a contact point arranged opposite each incandescent lamp and electrically connected therewith, said contact points being engageable with one pole of an electric battery, a socket member electrically connected with the several incandescent lamps, and a flexible contact element detachably engaged with the socket member engageable with the opposite pole of the battery.

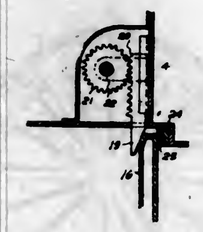
1,388,728. LABELING MACHINE. JAMES QUINCY LEAVITT, Ogden, Utah, assignor of one-half to Herbert L. Herrington, Ogden, Utah. Filed Aug. 20, 1920. Serial No. 404,811. 15 Claims. (Cl. 216—38.)



7. A can labeling machine, comprising a frame, a vertically movable track on the frame, means for compelling the movement of cans on the track a distance of one can at each operation thereof, a paste dauber, a label receptacle, a rotary brush supported above the track and in position to be engaged by the cans when the track is elevated, a paste receptacle at one side of the track, a paste roller in the receptacle, and means for moving the dauber from its position over the cans into engagement with the roller.

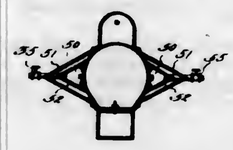
1,388,729. IMMERSIBLE SALVAGE VESSEL. ALBERT JOHN FREDERICK LEE, Montreal, Canada. Filed Aug. 22, 1919. Serial No. 319,115. 2 Claims. (Cl. 61—82.)

1. A submersible salvage vessel comprising a central tunnel approximately of an inverted U section, forming a chamber inclosed above and at the sides and open below to the sea water, the said chamber being adapted to be closed at at least one end by a vertical door pivoted about horizontal hinges, and means for securing



the door in the closed positions including a jamb and a resilient seating therefor, wedges for forcing the door against the jamb, and means for sliding said wedges into operative positions.

1,388,730. SUBMARINE BOAT. JOHN B. LOCKER, St. Louis, Mo., assignor of one-half to Joseph B. Crawford. Filed Sept. 22, 1917. Serial No. 192,733. 1 Claim. (Cl. 114—16.)



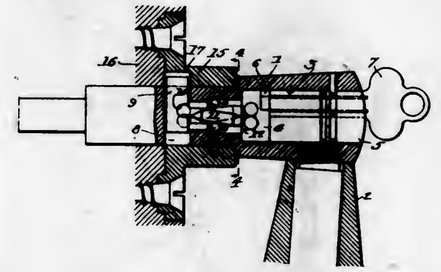
In a device of the class described, a hull including a plurality of compartments and air chambers, an additional air chamber located on each side of the hull and projecting laterally therefrom, the upper and lower walls of the additional chambers converging at their outer portions, means for admitting air to the chambers last named, and means for protecting each of the chambers last named, comprising a guard member extending longitudinally thereof, providing converging supporting surfaces.

1,388,731. PIPE-PATCH. WILLIAM LOUIS LONG, Coffeyville, Kans. Filed Mar. 6, 1919. Serial No. 280,890. Renewed Apr. 15, 1921. Serial No. 461,675. 2 Claims. (Cl. 285—194.)



1. In an attachable pipe patch of the character described, the combination with a curved patch plate and the gasket of a clamp comprising a U-shaped yoke having a hook at one end and threaded at its opposite end, a presser bar having a hook for engagement with the hook of the yoke, and an eye to receive the threaded end of the yoke, with a nut for holding said eye in adjusted position.

1,388,732. LATCH-LOCK. WILLIAM H. MCFALL, Philadelphia, Pa., assignor to Edward Reukauf and William H. McFall, Copartners, trading under the firm style of Carey-McFall Co., Philadelphia, Pa. Filed July 31, 1920. Serial No. 400,435. 7 Claims. (Cl. 70—91.)



1. In a lock, the combination of a reciprocatory bolt member, a pin having one end operably connected with said bolt member, a universal bearing for said pin intermediate the ends, and means for moving the free end of said pin in an arcuate path.

1,388,733. SMOKING-PIPE. HENRY J. MCGUCKIN, New York, N. Y. Filed May 28, 1920. Serial No. 384,887. 3 Claims. (Cl. 131—12.)



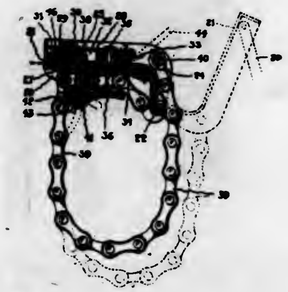
3. A smoking pipe comprising an integral spherical bowl formed with an integral stem radiating therefrom, said bowl having an opening therein diametrically opposite said stem, and said stem having a smoke passageway therein in axial alinement with said opening.

1,388,734. RAILWAY-RAIL BRACE. CLARENCE R. MCMICHAEL and BENJAMIN W. WALL, Patmos, Ark. Filed Nov. 9, 1920. Serial No. 422,831. 2 Claims. (Cl. 238—51.)



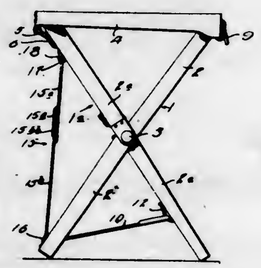
1. A railway rail brace comprising an upper continuous member of uniform width throughout with the lower faces at the ends beveled to bear over the confronting portions of the rail flanges, coacting lower members bearing beneath the upper member and extending beneath the rails, each of said lower members having a depressed seat to respectively receive the rail flanges and holding the rails from inward movement, clamping means uniting the upper and lower members, and an integral brace portion extending upwardly from each of the lower members at their outer ends, each of said brace portions having a recess to receive the adjacent edge of the rail flange and an obliquely directed extension bearing beneath the rail heat at its juncture with the rail web.

1,388,735. **FASTENER FOR MAIL-BAGS AND THE LIKE.** ALBERT MACDONALD, Burnside, and THOMAS WILLIAM WALLACE, Clare, South Australia, Australia. Filed Mar. 18, 1921. Serial No. 453,449. 14 Claims. (Cl. 24—30.5.)



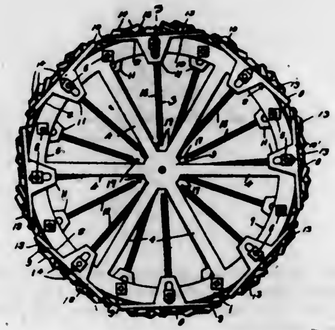
14. A fastener for mail bags and the like comprising two pivotally connected interlocking parts, an arm projecting from one part having a pivotal connection with a bar, a locking member on the free end of the bar, a hole in the bottom of a cup or depression on the first mentioned part of the fastener adapted to receive the locking member on the bar, a recess in the locking member, a locking piece pivotally mounted in the cup or depression and having a bearing face adapted to be placed in engagement with the recess in the locking member, and means for affixing a seal to retain the locking piece in its locked position.

1,388,736. **STOOL.** ERNEST E. MALLORY, Los Angeles, Calif. Filed Oct. 22, 1920. Serial No. 418,725. 6 Claims. (Cl. 155—136.)



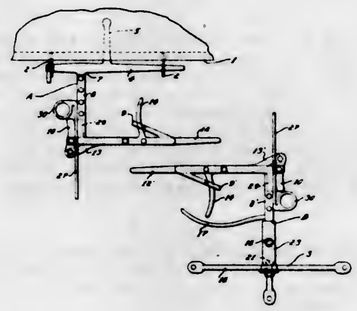
1. A device of the type described including main-members, each of these members comprising sections having their meeting or convergent ends pivotally connected to a common pivot, a seat-member, means at the rear edge of said seat-member integral therewith, means integral with one of said main-member sections and means forming freely movable connection between the aforesaid seat-member and said main-section.

1,388,737. **SELF-LAYING TWIN TRACTOR-WHEEL.** FRED D. MARIS, Toppenish, Wash. Filed May 14, 1920. Serial No. 381,414. 2 Claims. (Cl. 305—13.)



2. A wheel of the class described having a movable traction element, a rod extending through the traction element having terminal means to secure it to the element and to serve as a tractive means, and a return spring secured to the rod.

1,388,738. **MAIL CATCHING AND DELIVERING DEVICE.** FRANK L. MARTIN, RICHARD P. MARTIN, and LUKE H. MARTIN, Thornville, Ohio. Filed Aug. 28, 1920. Serial No. 406,597. 8 Claims. (Cl. 258—15.)

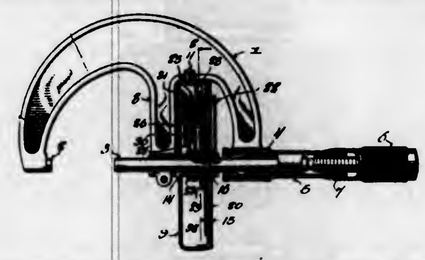


1. In combination with a mail car and a supporting frame placed along the track, a pair of members, one carried by the car and the other by said frame, each member comprising a supporting frame, a lever pivoted thereon for locking the bag to be delivered to the frame, a second lever for locking the caught bag to the frame, links connecting the two levers together so that the movement of one lever will be communicated to the other and means for moving the first lever into unlocking position and the second lever into locking position when the mail bag is engaged.

1,388,739. **MICROMETRIC INDICATOR.** FRANK H. MILLER, Racine, Wis. Filed Apr. 12, 1920. Serial No. 373,088. 3 Claims. (Cl. 33—166.)

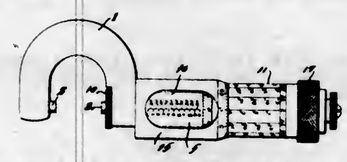
1. In a measuring instrument including an extensible and retractable spindle, a relatively stationary dial having a series of sight openings therein, a dial plate having

a series of graduations, said plate being rotatable to aline the graduations with the sight openings, and means oper-



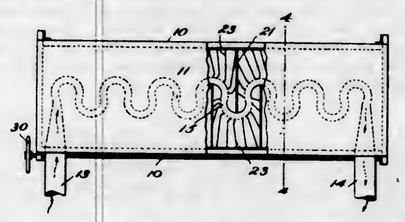
able by the rotation of the spindle for moving the dial plate to record the amount of movement of said spindle.

1,388,740. **MICROMETER-CALIPER.** FRANK H. MILLER, Milwaukee, Wis. Filed Oct. 15, 1920. Serial No. 417,069. 2 Claims. (Cl. 33—164.)



1. A micrometer caliper comprising a U-frame, a sleeve fixed in one end of said frame, a second sleeve spaced from and inclosing the first sleeve and having an opening therein, a third sleeve movable between the first two and having a measuring spindle fixed thereto, there being graduations upon the first and third sleeves coöperating with graduations upon the third and second sleeve, the graduations on the first sleeve being visible through the opening in the second sleeve.

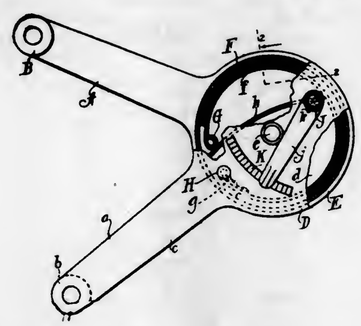
1,388,741. **DUST-SEPARATOR.** HUMPHREYS MILLIKEN, New York, N. Y. Filed Mar. 1, 1921. Serial No. 448,788. 10 Claims. (Cl. 183—79.)



1. The process for separating dust from air and gases which consists in forcing the dust-laden gas to move through a series of curved paths in opposed directions while confining the dust only on the inner side of each curve, and preventing exterior circulation of air on the convex side of each curve.

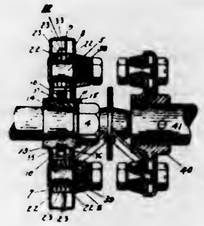
1,388,742. **SHOCK-ABSORBER.** CHARLES M. MOHLER, Richmond, Ind. Filed Aug. 19, 1920. Serial No. 404,695. 3 Claims. (Cl. 188—130.)

1. In a shock absorber, the combination with two arms angularly disposed, of an annular and two circular members connected with the said arms and with each other and being given rotary movements by the said arms, the said members being arranged to form a flat cylindrical box, a friction strip located within the box formed by said circular and annular members and arranged against the annular member, a friction spring arranged against the said friction strip and having one free end and one end attached to said circular members, a tension spring located



within said box and having one end bearing against the free end of the said friction spring, and adjustable devices arranged to act upon and to vary the tension of the tension spring.

1,388,743. **GOVERNING DEVICE FOR INTERNAL-COMBUSTION ENGINES.** EDWARD MOORE, Newark, N. J. Filed Feb. 18, 1918. Serial No. 217,862. 14 Claims. (Cl. 264—16.)



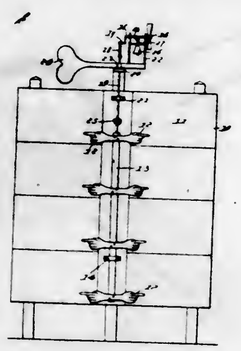
1. In a device of the character described, the combination of a multi-part driving member and a driven member, said driven member being housed within the driving member, studs on one of the parts of said driving member provided with means to bind the said parts together, weighted arms responsive to centrifugal force pivoted on said studs, links connecting said arms to the driven member whereby the driven member is responsive to movement of said arms and means for opposing the effect of centrifugal force on said arms as they are rotated.

1,388,744. **SPUD-TOOL.** JOHN T. MORRISSEY, Lincoln, Nebr. Filed Dec. 18, 1920. Serial No. 431,661. 3 Claims. (Cl. 81—79.)



1. A tool of the character described comprising two pivotally connected levers having overlapping ears formed adjacent their ends, said levers being disposed on opposite sides of the pivot and provided with angular gripping jaws at the extreme ends thereof presenting outer gripping surfaces, and means for locking the opposite free ends of said levers in their operative position.

1,388,745. ADVERTISING DISPLAY-STAND. RUFUS J. MORTON, Greensboro, N. C. Filed June 8, 1920. Serial No. 387,331. 3 Claims. (Cl. 40—139.)



1. An advertising display stand having a sign supporting rack, indicating elements movably supported in operative relation with the surface of said rack, a common actuating means for said indicating elements, and a wind motor having a swivel connection with said means and a vane to dispose it in operative relation with the wind, whereby said elements may be actuated irrespective of the direction in which the wind is blowing.

1,388,746. SUPPORTING MEANS OF THE TEN-PIN, HUNDRED-PIN, &c., OF THE CALCULATING-WHEELS IN CALCULATING-MACHINES. VALENTIN JAKOB ODHNER, Turisthotellet, Hindås, Sweden. Filed Feb. 18, 1920. Serial No. 359,628. 3 Claims. (Cl. 235—79.)



1. In calculating machines, the combination with a calculating wheel provided with a groove, of a pin loosely mounted in said groove and movable in a plane extending radially of the wheel, and resilient means operatively connected to said pin for normally holding the same in predetermined position.

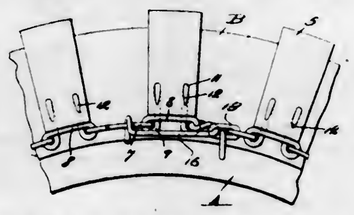
1,388,747. METHOD OF BUILDING CORD TIRES. CHASE F. OFFENSEND, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed May 6, 1921. Serial No. 467,413. 2 Claims. (Cl. 18—56.)

1. The hereindescribed method of manufacturing cord tires which consists in applying the tire material, including the cord structure, to an inflated elastic core, placing the core with the tire material carried thereby in a closed mold, subjecting the core to increased internal



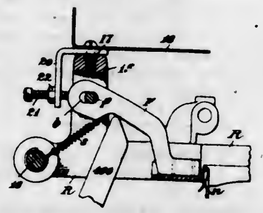
pressure to stretch the tire material, and subjecting it to vulcanizing heat while so expanded.

1,388,748. TIRE-PROTECTOR. ALDEN C. OLANDER, Billings, Mont. Filed Aug. 28, 1919. Serial No. 320,497. 1 Claim. (Cl. 152—16.)



In a device of the character described comprising spaced, transverse, tread members adapted to embrace a vehicle tire, U-shaped, normally upright hooks having sharpened upper terminals retaining said tread members and preventing longitudinal movement thereof with respect to the tire, the lower portion of said hooks being provided with reversely directed attaching eyes, loosely connected short chains connecting certain of the eyes of the adjacent hooks and closed links attached to the opposite eyes of said hooks.

1,388,749. YARN-FEED FOR KNITTING-MACHINES. ALBERT E. PAGE, Laconia, N. H., assignor to Scott and Williams, Inc., Boston, Mass., a Corporation of Massachusetts. Filed Jan. 14, 1919. Serial No. 271,128. 3 Claims. (Cl. 66—12.)



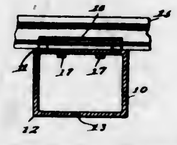
1. A knitting machine having needles and a yarn feeding finger therefor having a rounded rear end in combination with screw means to bear against the rear end of the yarn finger to adjust the yarn finger toward or from the needles.

1,388,750. TRACTOR ATTACHMENT. HAROLD N. PALMER, Putnam, Conn. Filed Mar. 4, 1920. Serial No. 363,166. 3 Claims. (Cl. 305—3.)



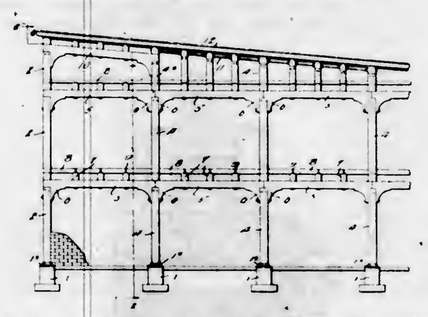
1. In an apparatus of the class described including an axle and an axle housing, a support depending from said housing and having a segmental socket, a frame having a segmental track extending upwardly therefrom intermediate the ends and engaging in said socket, tread chain wheels mounted for rotation in said frame at opposite sides of said axle, a tread chain including ground engaging lugs operating around said tread chain wheels, and means for transmitting the motion of said axle to said tread chain wheels.

1,388,751. CROSSTIE. WILLIAM F. PALMER, Charleston, W. Va. Filed Jan. 13, 1920. Serial No. 351,191. 1 Claim. (Cl. 238—77.)



The herein described railway tie formed from a single blank of resilient sheet metal, reduced to rectangular form in cross section and open throughout its length and at its ends and having its free longitudinal edges spaced apart throughout its length and also having at its underside and at opposite sides of the said longitudinal space serrations disposed at acute angles to the length of the space, for the purpose set forth.

1,388,752. REINFORCED-CONCRETE BUILDING. JOSEPH P. PAULISSEN, Kankakee, Ill. Filed Jan. 24, 1921. Serial No. 439,443. 2 Claims. (Cl. 72—1.)



2. In a building of the kind described, the combination with concrete upright columns, concrete beams supported by said columns, and reinforced concrete floor sections, said sections having a tongue and groove joint along their sides with a V-shaped groove formed above the tongue and joint, and having beveled ends forming a deep V-shaped groove at the meeting ends of the sections, a roofing composition inserted between the various sections, and a waterproof filler positioned in the grooves, and flush with the floor surface.

1,388,753. MODULATING DEVICE FOR SOUND-REPRODUCERS. GILBERT S. PEASE, Richfield, Wis. Filed Mar. 9, 1920. Serial No. 364,447. 2 Claims. (Cl. 274—27.)

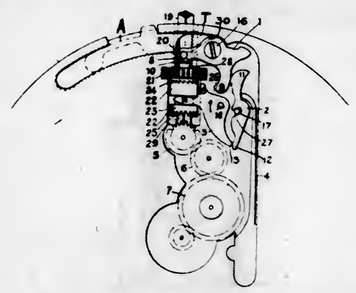


1. In a sound reproducer, a sound box provided with a diaphragm, a segmental modulating member interposed between the sound box and the rear face of the diaphragm and engaging the latter throughout its length, a pivot carrying the said member and journaled in the said sound box, and a handle on the outer end of the said pivot to permit of moving the said modulating member nearer to or farther from the center of the diaphragm.

1,388,754. PROCESS FOR THE MANUFACTURE OF METALLIC DIAPHRAGMS OF ELECTROLYTIC CELLS. RODOLPHE PECHKRANZ, Carouge-Geneva, Switzerland. Filed June 1, 1920. Serial No. 385,715. 9 Claims. (Cl. 204—28.)

1. A process of manufacturing metal diaphragms for electrolytic cells, comprising the steps of depositing electrolytically upon a foundation a coating of a metal which will be inert to the chemical reactions of the electrolyte in the cell in which it is to be used; and then detaching the metal coating from the foundation.

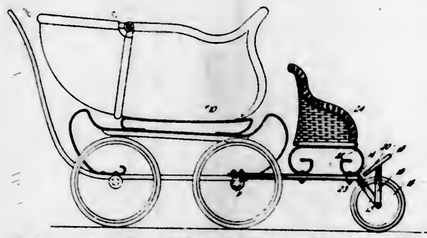
1,388,755. WATCH WINDING AND HANDS-SETTING MECHANISM. EDMOND PELLATON, Le Locle, Switzerland, assignor to Fabriques Des Montres Zenith Successeur De Fabriques Des Montres Zenith Georges Favre-Tacot & Cie. Filed May 10, 1921. Serial No. 468,381. 7 Claims. (Cl. 58—68.)



1. In a winding and hands setting mechanism for watches, an actuating spindle, a winding pinion thereon, a hands setting gear, a slidable pinion on the actuating spindle arranged to be coupled alternately with the winding pinion or with the hands setting gear, two levers each pivotable about a fixed axis and engaging, the first or hands setting lever, with said slidable pinion

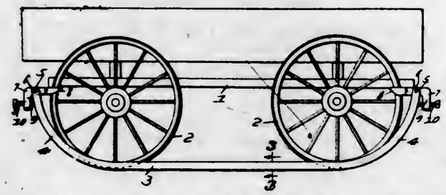
and the second with said winding spindle, one single spring for said two levers and a common rocking member between them and said spring, the latter being arranged so as to directly attack said common rocking member, substantially as and for the purpose described.

1,388,756. ATTACHMENT FOR CHILDREN'S CARRIAGES. FREDERICK PETERS, New York, N. Y. Filed Aug. 24, 1920. Serial No. 405,598. 2 Claims. (Cl. 280—47.)



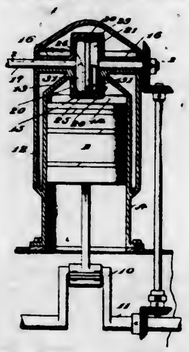
1. In combination with a child's carriage, an auxiliary seat comprising a platform, a single wheel for supporting the forward end of said platform, a seat carried by the platform, and means carried by the rear end of the platform for detachably securing said rear end to the forward axle of the carriage to which it is attached.

1,388,757. RUNNER FOR WHEELED VEHICLES. ARTHUR N. PURCELL, Corona, N. Y. Filed May 7, 1920. Serial No. 379,555. 1 Claim. (Cl. 280—13.)



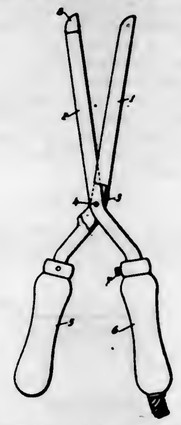
A runner for the purpose indicated which is channel shaped in cross section and curved upwardly at its forward and rear ends, bent levers pivotally mounted in the extremities of the runner and formed each at one end with a wheel engaging fork, and set screws threadingly engaging the remaining ends of the levers and bearing against the web of the runner, whereby the levers may be maintained in engagement with the wheels.

1,388,758. ROTARY-VALVE MOTOR. FRANZ P. RAHMEYER, Hampton, Nebr. Filed Mar. 13, 1919. Serial No. 282,283. 4 Claims. (Cl. 123—190.)



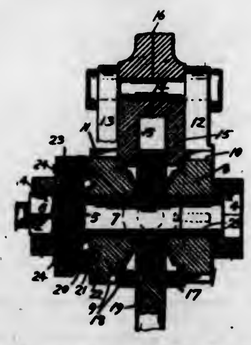
1. In a rotary valve, the combination with a cylindrical casing having diametrically opposite intake and exhaust passages through its periphery out of line with each other; and ports through its sides in alinement with each other; of a valve mounted for rotation within said casing and having a drum-like body containing independent intake and exhaust compartments, and packing around the periphery thereof contacting with the casing, said body having in its periphery intake and exhaust slots on opposite sides of a line through said packing and opening into the respective compartments, and having also through its sides intake and exhaust openings communicating with the respective compartments and adapted to aline with said ports.

1,388,759. ELECTRIC FOLDING AND CURLING IRON. GAETANO RAPIZZI, Parabiago, Italy. Filed Sept. 15, 1920. Serial No. 410,370. 2 Claims. (Cl. 219—24.)



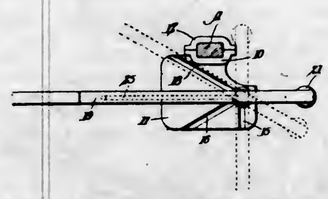
1. In an electric folding and curling iron of the character described comprising two pivotally connected metallic branches one of which is of a tubular shape and closed at its outer end, handles on the inner ends of the branches, terminals on the handle of the tubular branch, a heating unit mounted in said tubular branch and connected to the terminals, said unit consisting of a pair of insulating plates, a resistance wire wound continuously about said plates, means for insulating said plates from one another as well as at their external sides, and an insulating cord arranged about all of the plates and wire.

1,388,760. RATCHET-SPANNER. JOHN RAVEN, Deervale, via Armidale, New South Wales, Australia. Filed Apr. 12, 1920. Serial No. 373,251. 2 Claims. (Cl. 81—61.)



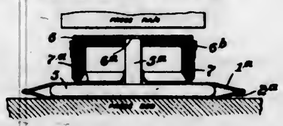
1. In ratchet spanners, the combination of a hollow spindle, two bevel wheels mounted on said spindle in spaced relation, one of said bevel wheels being secured to the spindle, opposite ratchets on said bevel wheels, a reciprocatory operating lever, pawls carried by said lever and adapted to alternately rotate said wheels in accordance with the movements of the lever, a holding arm interposed between said wheels, bevel pinions carried by said holding arm and meshing with said bevel wheels, said spindle having a socket at each end for engaging the nut of a bolt whereby said nut may be continuously rotated in one direction by the reciprocation of said lever, and the threaded end of the bolt may pass through said hollow spindle.

1,388,761. TRAFFIC-SIGNAL. GENEVIEVE REED, Naugatuck, Conn. Filed Feb. 15, 1921. Serial No. 445,175. 2 Claims. (Cl. 116—52.)



1. A device of the character described comprising a bracket member detachably engaged upon one side of a wind shield frame and including a horizontal platform portion provided with a hole and with a plurality of radial grooves, a pointer formed as a body of arrow shape, a bolt depending from said body and revolubly engaged through said hole, a flexible rod member secured at one end to the underside of the pointer body and having its major portion spaced below the lower edge thereof with its rear extremity revolubly engaged upon said bolt, and a coil spring surrounding the bolt and engaging against said rear extremity of the flexible member and against the underside of the pointer body, whereby to hold the flexible member resiliently in engagement within a selected groove.

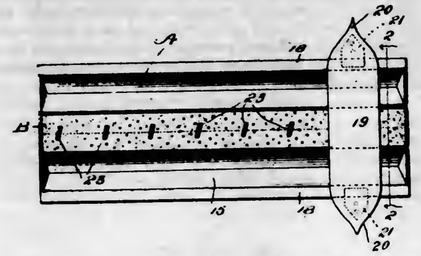
1,388,762. MANUFACTURE OF RUBBER BATHING-CAPS. RALPH E. RILEY, Akron, Ohio, assignor to The Miller Rubber Company, a Corporation of Ohio. Original application filed Sept. 11, 1919, Serial No. 323,096. Divided and this application filed Aug. 9, 1920. Serial No. 402,220. 4 Claims. (Cl. 154—2.)



4. The hereindescribed method of making rubber bathing caps which comprises superposing two imperforate sheets of unvulcanized rubber material, simultaneously cutting the superposed sheets along a circular line and joining the circular cut edges by a single operation, slitting one of said sheets approximately centrally thereof, supporting said last named sheet from its inner surface while spaced from the other sheet, applying to said slitted sheet around the opening the angularly turned edge of a substantially cylindrical band of rubber material, and pressing said angularly turned edge against the sheet to simultaneously join said band to the perforated sheet and sever the material projecting beyond the line of juncture.

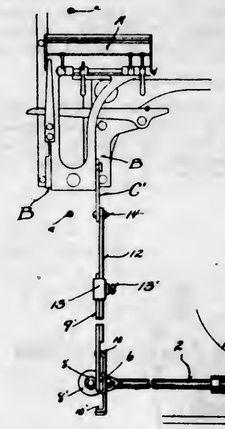
1,388,763. FENCEPOST-MOLD. DAVID ROBERTS, Ann Arbor, Mich. Filed Mar. 17, 1920. Serial No. 366,607. 2 Claims. (Cl. 25—118.)

1. A mold of the character described, comprising a blank of sheet metal cut and bent to form plural longitudinally disposed parallel channels, extensions formed at the ends of the blank and bent to provide end walls to the channels, flanges on said blank, tongues on the extensions



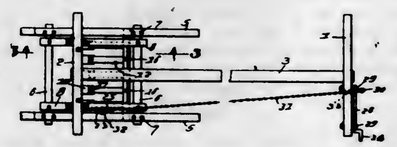
and in locking engagement with the flanges, guides longitudinally of the channels and a smoothing board slidably connected with the guides.

1,388,764. TYPOGRAPHICAL MACHINE. EDWIN W. ROGERS and CHARLES C. CHAPEL, Marshfield, Wis. Filed Mar. 8, 1921. Serial No. 450,522. 5 Claims. (Cl. 199—31.)



1. In a linotype machine having a vertically reciprocative matrix assembling elevator; the combination of a raising and lowering mechanism therefor, the same including a foot controlled rock shaft, a rock arm yieldably secured thereto, a link pivoted to the arm and connected to the elevator, the yielding connection between the rock arm and shaft serving to cushion the starting and stopping movement imparted to said elevator by foot power.

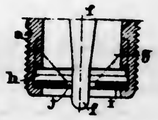
1,388,765. SLED-BRAKE. HARLEY A. ROWE, Brandon, Vt. Filed Nov. 1, 1918. Serial No. 260,691. 3 Claims. (Cl. 37—42.)



1. A combined road leveler and brake including a rockable shaft, road engaging teeth extending from said shaft and composed of curved flat spring steel strips, resilient

means coacting with the shaft for normally holding the teeth in raised inactive position, and means for rocking the shaft against the tension of the resilient means to move the teeth into road engaging position whereby said teeth may operate both as a brake and as a road leveler operating when sufficient pressure is applied to flex so as to bring the flat underfaces of the shoes into engagement with the roadway.

1,388,766. SPARKING PLUG WITH SELF-CLEANING ELECTRODES. BENOIT SCHERER, La Garenne-Colombes, France. Filed Mar. 19, 1921. Serial No. 453,774. 2 Claims. (Cl. 123—169.)



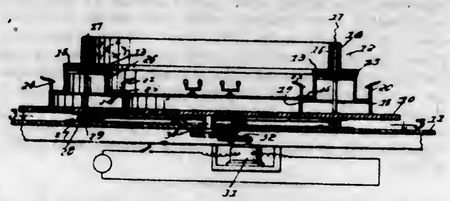
1. A sparking plug for internal combustion engines, comprising a body having an annular internal groove in its lower portion, a metallic disk of less thickness than the width of the groove and loosely mounted therein, said disk being centrally apertured and forming an electrode, and a rod like electrode mounted in the body and having its end extending through the aperture in the disk electrode.

1,388,767. MEANS FOR POLISHING SPACE-BANDS. WILLIAM H. SCHUYLER and GEORGE J. CHILES, Chicago, Ill. Filed Mar. 29, 1918. Serial No. 225,610. Renewed June 8, 1921. Serial No. 476,110. 10 Claims. (Cl. 51—110.)

1. The combination with a rotatably mounted polishing disk of a feed chute for receiving and holding space bands in a vertical stack adjacent the edge of said disk, a feed bar mounted to reciprocate above said disk, a lug secured to said bar intermediate the ends thereof for engaging the lowermost band and carrying it on to said disk, a plunger mounted to reciprocate on the outer end of said bar at right angles to said disk and provided with a friction block for engaging the upper sides of said space bands, a spring for urging said plunger downward, means for raising and locking said plunger at the outer end of its stroke, means for releasing said plunger at the inner end of its stroke, an assembling arm having its free end spaced from and below the upper face of said disk, a guide bar extending above said disk for guiding the space bands above said assembling arm, and means for rotating said disk and reciprocating said feed bar.

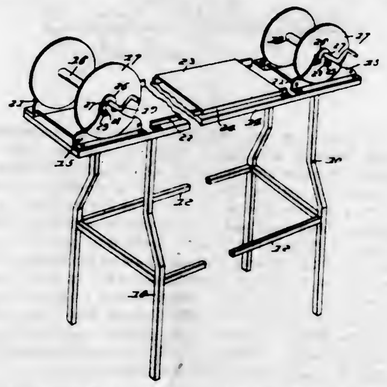
1,388,768. SHOE-SHINING STAND. FRANK S. SCOTT, Heyburn, Idaho. Filed Apr. 7, 1920. Serial No. 372,052. 4 Claims. (Cl. 15—58.)

2. A shoe shining stand having a revoluble table or platform, concentric inwardly and outwardly facing seats supported by the platform, corresponding series of foot rests disposed in operative relation with said series of



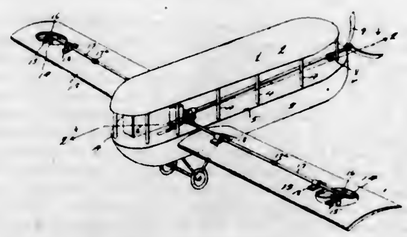
seats, and means for communicating progressive movement to the table or platform.

1,388,769. STENOGRAPHER'S RAPID RECORDER. WILLIAM J. SCULLY, Newport, Ky. Filed June 26, 1920. Serial No. 392,139. 5 Claims. (Cl. 281—7.)



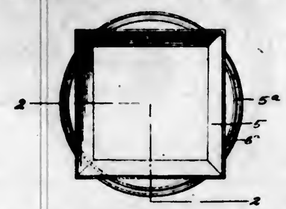
3. A stenographer's recording apparatus having a table, drums mounted on the table at its remote ends and adapted for transfer of a continuous strip of paper from one to the other, means for guiding the exposed portion of the strip or ribbon, means for rotating the drums, and an arm rest disposed above the exposed portion of the ribbon and movable from one drum to the other.

1,388,770. AIRPLANE. MATTHEW C. SHARPNACK, Omaha, Nebr., assignor of one-half to C. I. Hiddleston, Sr., Douglas county, Nebr. Filed Apr. 17, 1920. Serial No. 374,718. 1 Claim. (Cl. 244—5.)



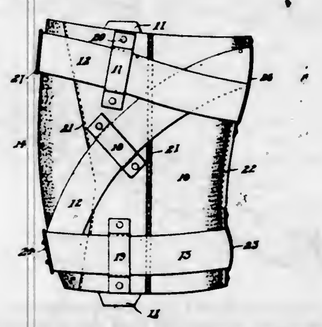
An airplane comprising upper and lower elongated casings semi-circular in cross section, said casings forming gas chambers, the flat surfaces of the casings being inwardly disposed, stanchions connecting the casings together and holding the casings in spaced relation to each other, planes extending outwardly from opposite sides of the lower casing, an engine disposed between the casings and carried by the flat surface of the lower casing, a driving propeller carried by the lower casing and driven by said engine, lifting propellers carried by the planes and means whereby said lifting propellers may be operated independently or simultaneously.

1,388,771. PAPER-CUSPIDOR HOLDER. LEO G. SHARTON, Little Falls, Minn. Filed July 3, 1919. Serial No. 306,444. 2 Claims. (Cl. 4—38.)



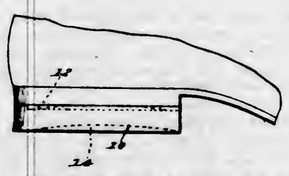
1. A holder for paper cuspidors of rectangular form comprising a circular body member adapted to receive a cuspidor, downwardly and inwardly directed supporting members struck from the top edge of the body member to engage beneath the bottom wall of the cuspidor, the struckout portions of the body forming a plurality of recesses in the top edge thereof adapted to accommodate the corners of the cuspidor to prevent accidental displacement of the latter relative to the holder.

1,388,772. KNEE-SUPPORTER. FRANK T. SHEEHAN, Ithaca, N. Y. Filed Feb. 24, 1921. Serial No. 447,627. 4 Claims. (Cl. 2—130.)



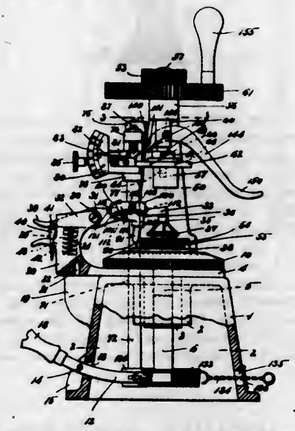
1. A device of the class described comprising an elastic sleeve, longitudinal side stays upon the sleeve, a strap centrally secured adjacent the bottom of the sleeve extending diagonally upwardly overlapping at the rear and adjacent the top of the sleeve with the ends of the strap adapted to be secured together forwardly of the sleeve above said point of attachment between the strap and sleeve.

1,388,773. RUBBER HEEL. DOMENICO SIMONE, Washington, D. C. Filed Sept. 30, 1919. Serial No. 327,516. 1 Claim. (Cl. 36—35.)



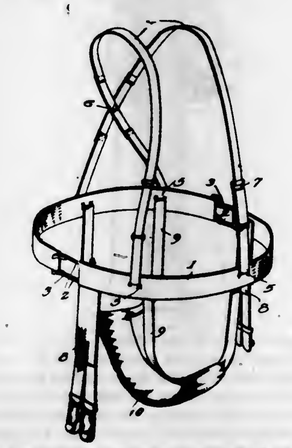
An elastic heel comprising a solid body having a central portion adapted to engage a shoe and provided with a plurality of nail receiving sockets adjacent to the rear and sides of the lower surface of said body, and a relatively wide substantially U-shaped marginal flange surrounding the rear and sides of the upper surface of said body, adapted to engage a shoe and coöperating with the central portion of the upper surface of said body to produce a concavity in the central portion of the lower surface of said body and a flat peripherical portion, said flange being provided with a right angular inner wall and having inwardly directed tapered outer ends.

1,388,774. LENS-CUTTING MACHINE. WALTER W. SLADE, Brookline, Mass., assignor to Globe Optical Company, Boston, Mass., a Corporation of Massachusetts. Filed June 24, 1920. Serial No. 391,416. 3 Claims. (Cl. 33—28.)



1. A lens cutting machine of the kind described, comprising a swinging support for said cutter, adapted to be held under spring tension toward the work to be operated on, and a lever operable to move the work holder out of operative position.

1,388,775. SUPPORTER. ANNA B. SMITH, Ebb, Fla. Filed Apr. 13, 1917. Serial No. 161,778. 1 Claim. (Cl. 128—289.)



A supporter of the character described, comprising a harness for suspension from the shoulders and to embrace the waist of a user, means for adjusting the harness about the waist, front and rear loops depending from

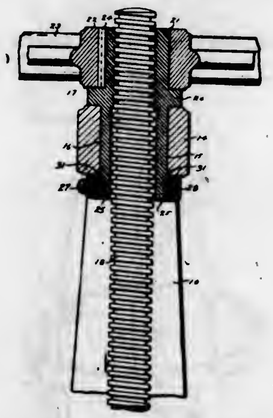
and detachably connected with the harness, and an endless sack having the loops loosely trained therethrough for free movement of said sack when supported by said loops.

1,388,776. SHOE-HEEL. CHARLES D. SMITH, St. Louis, Mo. Filed Dec. 15, 1919. Serial No. 344,895. 1 Claim. (Cl. 36—40.)



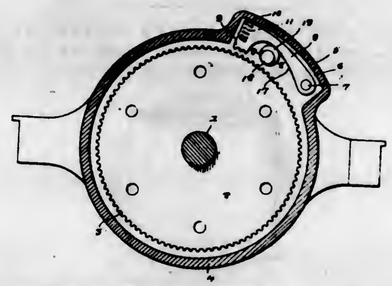
A heel of the character described comprising an outer shell, drawn and formed from a single sheet of material, a divided core of non-metallic material supported in the shell, means for securing the same together, a metallic strip placed on the bottom of the lower section of the core, a strip of resilient material placed against the metallic strip and held in position by crimping the bottom edge of the heel shell and a sole strip attached to the resilient material, a metallic strip placed on the top of the upper section of the core, a strip of non-metallic material placed on top of the metal strip and held in position by the crimping of the upper edge of the shell and fastening nails supported to the strip whereby the heel is attached to the shoe, substantially as specified.

1,388,777. GATE-VALVE. JAMES C. SMITH, Paterson, N. J., assignor to McNab & Harlin Mfg. Co., New York, N. Y., a Corporation of New York. Filed Nov. 3, 1919. Serial No. 335,236. 2 Claims. (Cl. 251—49.)



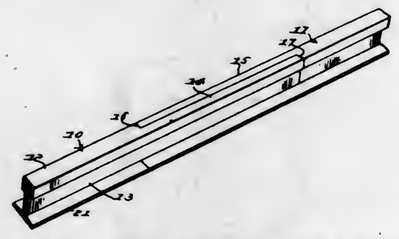
1. In a gate valve, a yoke having a hub, a yoke sleeve mounted to turn in the said yoke hub and in which moves the valve stem, the said yoke sleeve having an integral collar seated on the outer end of the said yoke hub, and removable retaining means engaging the said yoke sleeve to hold it against axial displacement in the hub, the said retaining means when removed allowing removal of the yoke sleeve from the hub and from the valve stem without disturbing the position of either the yoke, stem or other internal valve parts when the valve is in its closed position.

1,388,778. LOCKING DEVICE FOR MOTORS. WILBURN B. SMITH and DAVID N. SWATSELL, Birmingham, Ala. Filed Dec. 14, 1920. Serial No. 430,697. 1 Claim. (Cl. 70—90.)



In combination with the fly wheel of a motor, provided with peripheral teeth, and a fly case in which the wheel is housed, and said motor having an outwardly extended portion providing a pocket therein; of a dog pivotally secured in the pocket having a toothed end for engaging with the teeth of the fly wheel, spring means for influencing the dog to such engagement, a shaft journaled transversely in the housing below the dog, a cam surface thereon in the path of engagement with the inner edge of the dog, a lug on one end of the shaft, and a lock including a rotary barrel which has a notched end in which the lug of the shaft is received.

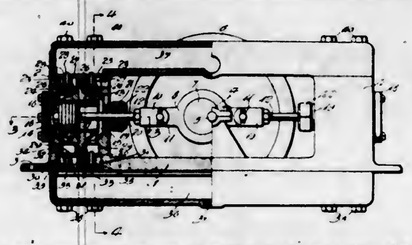
1,388,779. RAIL-JOINT. MILROY G. STACKHOUSE, Tulsa, Okla. Filed Jan. 4, 1921. Serial No. 434,892. 2 Claims. (Cl. 238—231.)



1. A rail joint having rail ends longitudinally halved on a vertical plane through the head and web portions thereof to form tongues at the inner ends of which are provided abrupt shoulders for abutting relation respectively with the extremity of the tongue of the other rail end, one of said tongues carrying a base common to both tongues and having a longitudinal groove for the reception of the lower edge of the other tongue, an interlocking connection being provided between said shoulders and the abutting extremities of the tongues.

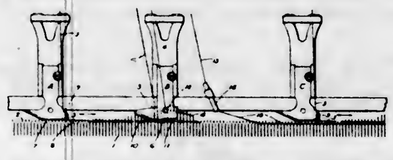
1,388,780. PUMP. ARTHUR E. STANLEY, Elkhart, Ind. Filed Nov. 29, 1920. Serial No. 427,058. 3 Claims. (Cl. 103—78.)

1. A pump comprising a base, opposed pump bodies carried by said base and held in spaced relation thereby, each pump body having a cylinder extending longitudinally through the same and communicating with chambers at the inner and outer ends of the pump body, the chambers extending annularly about the end portions of said cylinder and provided with ports leading through the upper and lower ends of the pump body, a suction chamber removably carried by the base and inclosing the ports at the lower ends of the pump bodies, a discharge manifold removably connected with and bracing the pump bodies and inclosing the ports at the upper ends of the pump bodies, removable heads for the outer ends of said cylinders, valve elements in said ports yieldably held in a closed position and removable when the suction chamber and discharge mani-



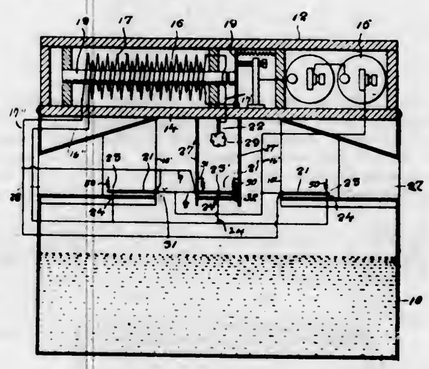
fold are removed, pistons in said cylinders having shafts extending through the inner walls of the pump bodies, and actuating means connected with piston shafts.

1,388,781. DIAL AND CYLINDER KNITTING-MACHINE. GODFREY STIBBE, Leicester, England. Filed Nov. 19, 1919. Serial No. 339,109. 10 Claims. (Cl. 66—22.)



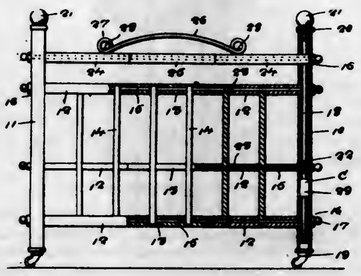
1. A circular knitting machine having two sets of needles, two or more feeders arranged so that at one or more feeders yarn is fed to the needles of one set only and at another feeder or feeders yarn is fed to the needles of the other set only whereby the two sets of needles knit independently of each other and produce individual webs, and means to feed in an additional yarn so that it becomes passed around the bases of the loops of the individual webs wholly below the surfaces of said webs and runs from one web to the other to tie them together.

1,388,782. ELECTRIC ANIMAL-TRAP. JOHNSON TUPPER, River Rouge, Mich. Filed Sept. 20, 1919. Serial No. 325,062. 2 Claims. (Cl. 43—99.)



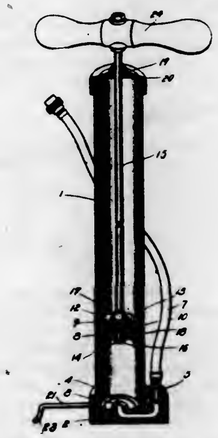
1. In a trap of the class described, a casing including a lower chamber, a contact element for a secondary circuit, an induction coil, and a battery within the casing, a pair of contact making devices adjacent to each opening and between the latter and the contact element first named, an additional pair of contact making devices between the pairs of contacts adjacent to the openings, and conductors connected with the coil, the battery, the secondary contact element and the contacts of the respective pairs, for completing a primary circuit by pressure between the contacts of either pair, and completing a secondary circuit through the coil and through the body of an animal engaging the contact first named while the contacts of either pair are closed.

1,388,783. BED. JOHN YEAGER, Baltimore, Md. Filed Mar. 5, 1920. Serial No. 363,394. 4 Claims. (Cl. 5—8.)



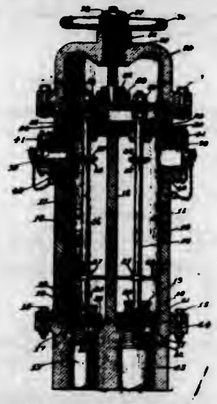
1. In a combined bed and crib, a bed structure comprising head and foot members, each member including end sections and a removable intermediate section, a sectional bed spring, said intermediate sections when removed from the bed structure being adapted to be turned to a position to constitute the end members of the crib and corner posts therefor, and certain sections of the springs being designed for association with the said intermediate sections to form the sides of the crib.

1,388,784. AIR-PUMP. JOSEPH C. YOUNGBLOOD, Denver, Colo. Filed Aug. 5, 1920. Serial No. 401,300. 1 Claim. (Cl. 230—27.)



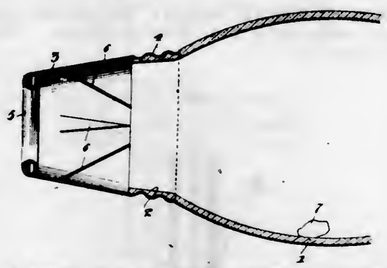
A pump comprising a cylinder, a piston in the cylinder having an integral, upstanding, threaded collar, said collar comprising a valve seat, ports leading from the valve seat through the piston, a pump leather on the piston surrounding the collar, a nut threaded on the collar to hold the piston leather in place, a pump rod for limiting the reciprocatory movement with respect to the pump piston, and a valve on the pump rod.

1,388,785. DUPLEX HYDRANT. HAROLD I. ACKER, New York, N. Y., assignor to Foamite Firefoam Company, New York, N. Y., a Corporation of Delaware. Filed Jan. 2, 1920. Serial No. 348,717. 12 Claims. (Cl. 221—96.)



1. In a fire extinguishing system of the multiple solution type, a hydrant including a casing adapted to be mounted in fixed position, a separate passage through the casing for each solution, each passage being adapted to be connected to a suitable source of solution supply, valve means for closing each passage, unitary means for simultaneously opening all of the passages to permit synchronous flow of the solutions therethrough, and means for connecting each passage to a line of a multiple distribution system.

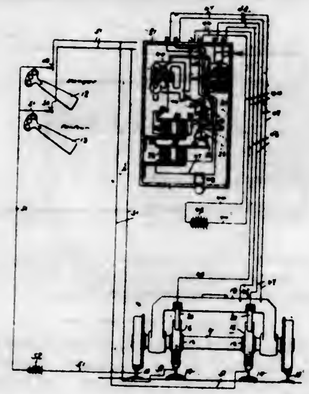
1,388,786. MOUSETRAP. NUNNALLY H. ALBRECHT and WALTER A. BALDWIN, Dawson, Ga. Filed July 13, 1920. Serial No. 395,852. 3 Claims. (Cl. 43—65.)



3. A device of the character specified, comprising a frusto-conical sleeve having at the large end thereof a threaded portion for engaging the neck of a fruit jar, said sleeve having struck-up internal pointed spurs converging toward the large end of the sleeve.

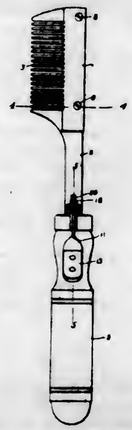
1,388,787. RAILWAY SIGNAL DEVICE. DENNIS J. ALLEN, Binghamton, N. Y. Filed Sept. 7, 1920. Serial No. 408,429. 1 Claim. (Cl. 246—191.)

In a signal apparatus, a semaphore device adjacent a railway line, electrical means for actuating the line semaphore device, a support on a moving train, a miniature semaphore mounted for oscillation within said support and carrying a gear pinion, an arm mounted for oscillation and carrying a gear segment engaging said gear pinion, an electromagnet for said arm, an armature swinging at one end adjacent said magnet, an extension from said armature and connected to said arm, an elongated electrical contact adjacent the railway line and in electrical connection with the line semaphore, an electric contact carried by the moving train in position to engage the elongated contact, and electric connections between said electric contacts and the electromagnet, whereby the miniature semaphores are moved into the



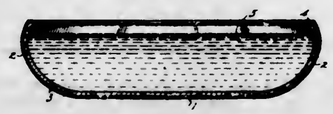
same relative position as the line semaphore when the train contact engages the elongated contacts.

1,388,788. COMB. OSCAR RICHARD ALTWEIN, Asheville, N. C. Filed Apr. 14, 1921. Serial No. 461,176. 3 Claims. (Cl. 132—14.)



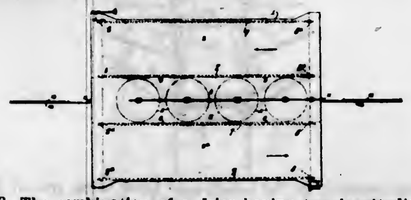
1. A comb of the character described, comprising a stationary comb mender, a movable comb member, teeth on said comb members normally in alinement, means for moving the movable member, and cushioning means interposed between said last-mentioned means and the movable member.

1,388,789. GAZING-BOWL. LEO M. ANDERSON, New York, N. Y. Filed Oct. 22, 1920. Serial No. 418,676. 2 Claims. (Cl. 46—37.)



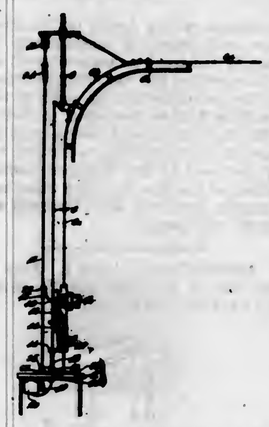
1. A gazing bowl comprising an open-topped metallic receptacle having curved sides suitably treated to produce any desired color effect thereon, and a lining of transparent material placed against the inner surface of this receptacle to form a highly polished reflective surface, said receptacle adapted to receive a body of transparent liquid.

1,388,790. DRIER. ELWOOD B. AYERS, Philadelphia, Pa., assignor to the Philadelphia Textile Machinery Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Sept. 23, 1919. Serial No. 325,714. 8 Claims. (Cl. 34—12.)



3. The combination of a drier having two longitudinal drying chambers; a heating chamber located between the drying chambers; means for circulating air through the heating chamber and the drying chambers; conveyers in each chamber, one conveyer moving in one direction and the other in the opposite direction; a frame pivoted in a central position at each end of the drier and arranged to swing in front of either drying chamber so as to carry material to the feed end of one chamber and to receive material from the feed end of another chamber.

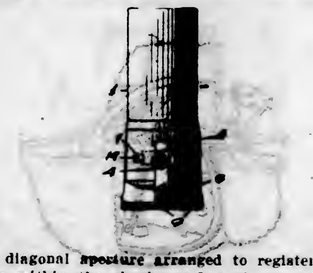
1,388,791. CASH-CARRIER. JAMES L. BALDWIN, Chicago, Ill. Filed Nov. 16, 1920. Serial No. 424,452. 8 Claims. (Cl. 105—22.)



1. In an apparatus of the character described, a carrier, elevating means for the carrier, an endless belt, a driving connection between the belt and the elevating means, an electric motor for driving the belt in a direction to impart a working stroke to the elevating means, a switch mechanism controlling the circut of the motor, and means for automatically operating the switch mechanism to open the motor circuit at the end of the working stroke of the elevating means.

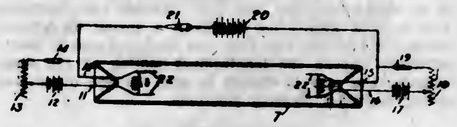
1,388,792. DRILL. HENRI BERNAY, San Francisco, Calif., assignor, by mesne assignments, to Fred W. Thurston, San Francisco, Calif. Filed Mar. 21, 1919. Serial No. 284,181. 3 Claims. (Cl. 255—64.)

1. A drill comprising a chuck having a central aperture and lateral slots arranged at right angles to each other and also having a lateral aperture reduced at one end thereof; a cruciform bit detachably mounted within the slots and having one end wider than the other and cutting edges on said wider end, and likewise provided



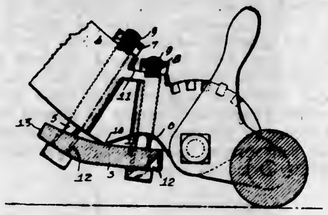
with a diagonal aperture arranged to register with the aperture within the chuck; and a pin mounted within said aperture and having a reduced portion to engage the reduced portion of the aperture whereby said pin may be inserted within said aperture from one end only.

1,388,793. VACUUM-TYPE CONVERTER. WILFRED T. BIRDSALL, Montclair, N. J., assignor, by mesne assignments, to Westinghouse Lamp Company, a Corporation of Pennsylvania. Filed Jan. 5, 1917. Serial No. 140,740. 3 Claims. (Cl. 250—27.)



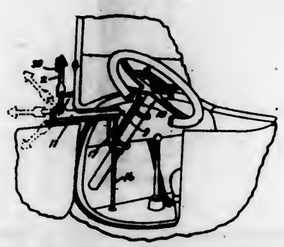
1. In an electron tube, the combination with two leading-in wires, of a filamentary cathode mounted therebetween, means for supplying current to said cathode for the production of electron emission thereat, an anode mounted within said tube, said leading-in wires extending beyond said cathode in the general direction of said anode, and means for maintaining an electromotive force between said cathode and said anode, said leading-in wire extensions being mounted in such relation to said cathode and having such conducting properties as to fail to become the seats of active electron emission.

1,388,794. LAWN-MOWER ATTACHMENT. WILLIAM J. BOLL, Platteville, Wis. Filed Sept. 16, 1920. Serial No. 410,763. 1 Claim. (Cl. 56—252.)



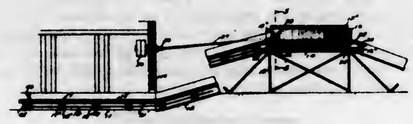
A blade adjusting attachment for lawn mowers comprising a pair of blade carrying frames, an angular shoulder presented downwardly from each frame, a blade, screws passed upwardly through the blade and entirely through the frames and holding the blades against the shoulders, said screws movable longitudinally in the frames, nuts on the upper ends of the screws engaging the upper face of the frame and controlling the position of the blade relative to the frame.

1,388,795. DIRECTION-INDICATOR FOR MOTOR-VEHICLES. Thomas A. Brett, Pittsburg, Calif. Filed Feb. 23, 1921. Serial No. 447,063. 2 Claims. (Cl. 116—52.)



1. A direction indicator for a motor vehicle, comprising a rack rod slidably mounted on and parallel to the steering post with freedom of longitudinal motion, a vertical shaft having a worm gear thereon adapted to be rotated by a longitudinal motion of the rack rod, a second horisontal rack rod mounted parallel to the dash board with freedom of longitudinal motion, an operative connection between the shaft and the second rack rod, an indicating arm pivotally supported over one end of the second rack rod having a toothed segment adapted to be engaged by the rack rod, whereby the indicating arm may be swung on its pivot, a spring operatively connected with the first rack rod being adapted to intermittently impede the longitudinal motion of the same whereby the arm is caused to stop in one of several clearly defined indicating positions.

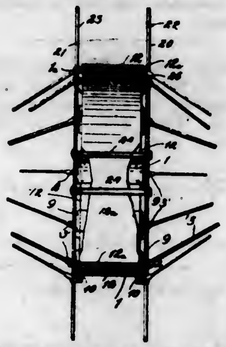
1,388,796. MANURE-REMOVER. Stanley E. Brown, Middlebury, Vt. Filed Dec. 2, 1919. Serial No. 342,008. 3 Claims. (Cl. 193—1.)



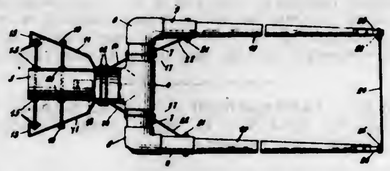
3. An apparatus of the class described including a structure, tracks thereon spaced to permit material to drop therebetween, a runway leading to said tracks, a carrier movable on said runway and adapted to receive material at the top surface thereof, a scraper on the carrier at the underside adjacent the rear end to scrape said runway and drag the scraped material to said tracks to permit the material to drop between the tracks, and scraper means on said structure above the tracks beneath which scraper said carrier is adapted to travel for the scraping of the material from the top surface of the carrier, said scraper being adapted to scrape the material laterally from said structure.

1,388,797. EXPANDING PULLEY. George Buttress, Los Angeles, Calif. Filed Nov. 19, 1919, Serial No. 339,187. Renewed Jan. 24, 1921. Serial No. 439,690. 4 Claims. (Cl. 64—8.)

1. A pulley comprising in combination a series of arcuate sections constructed to grip a band against radial movement in respect thereto and to permit the band to slide circumferentially, a series of drums, radial arms connecting said drums and sections, a convolution of a resilient band fastened at one end to one of said sections and encircling the others of said sections so as to slide circumferentially in the latter, said band being free at the other end and continuing under said sections.

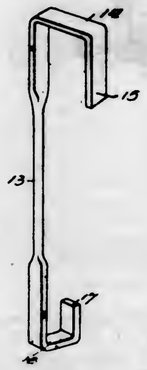


1,388,798. DOUBLE TONGUE. James S. Carter, Roby, Tex. Filed July 1, 1920. Serial No. 393,302. 1 Claim. (Cl. 278—34.)



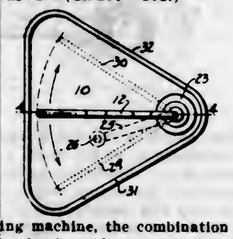
The combination with a double tongue structure including a hollow stub tongue, a substantially T-shaped coupling carried by the front terminal thereof, angular draft pole sockets carried by the oppositely directed head of the T-coupling, braces connecting the head of the T-coupling with the sockets, hounds connected at their front terminals with the stub tongue and having angular rear terminals arranged in spaced relation to the stub tongue, braces connecting the head of the T-shaped coupling with the front terminals of the hounds, and a brace rod connecting the rear angular terminals of the hounds with the rear terminal of the stub tongue.

1,388,799. IMPLEMENT-SUPPORT. Jens C. Christensen, Penn Yan, N. Y. Filed Aug. 24, 1918. Serial No. 251,286. 1 Claim. (Cl. 97—1.)



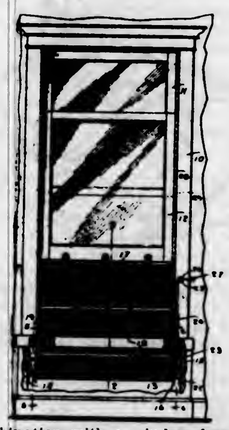
As a new article of manufacture, a double ended hook member formed of a length of stock of circular cross section throughout its intermediate length and of rectangular cross section at its opposite end portions, the rectangular end portions of the strap being bent to form upper and lower hooks, each substantially rectangular in side elevation, the lower of said hooks being disposed at right angles to the upper of said hooks and substantially less in size than the latter, the opening of the bills of said hooks being directly opposed one to the other.

1,388,800. WASHING-MACHINE. Robert F. Clark, Salt Lake City, Utah. Filed Feb. 20, 1920. Serial No. 360,196. 6 Claims. (Cl. 259—101.)



1. In a washing machine, the combination with a horizontal tub portion having sides lying in three intersecting vertical planes, of an agitator pivotally supported near the vertex formed by two of the intersecting planes, the said agitator being adapted to oscillate between the said two planes; and the third plane being tangent to an arc concentric with, and lying somewhat outside of, the arc described by the oscillating extremity of the said agitator, the point of tangency being approximately at the center of the said arc.

1,388,801. WINDOW, DOOR, OR PORCH SCREEN. Daniel R. Cooley, Smithers, British Columbia, Canada. Filed Apr. 6, 1920. Serial No. 371,762. 2 Claims. (Cl. 156—39.)



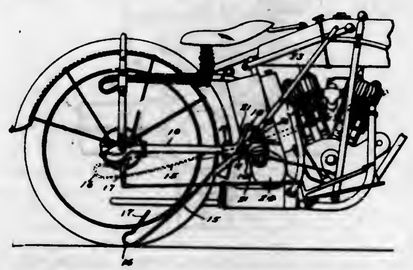
1. The combination with a window frame, of a spring actuated drum mounted in bearings located beyond one end of the frame, a screen or curtain wound upon said drum and extending through a slot in the adjacent end of the frame, means for removably securing the free end of the screen or curtain to the window sash, a ratchet wheel secured to the drum, a spring actuated dog pivotally secured to the window frame, and means secured to the dog and extending through the frame for moving the dog out of engagement with the ratchet wheel to regulate the position of the window sash.

1,388,802. GARMENT-WEIGHT. Morris L. Cooper, New York, N. Y. Filed Apr. 10, 1920. Serial No. 372,875. 1 Claim. (Cl. 2—124.)

A garment weight adapted to be connected to the bottom inner facing of a skirt in spaced relation with respect to one another and each comprising a convexed body portion of rectangular form, the material forming the body being reduced in thickness adjacent the edges thereof to provide the same with a pair of beveled longitudinal edges and a pair of transverse edges, each of the said beveled edges of the body portion being cut out to provide the same with oppositely arranged spaced parallel elongated slots adapting the weight to be sewed to the garment along both the longitudinal and transverse edges for the greater portion of the longitudinal and transverse extent of the body.

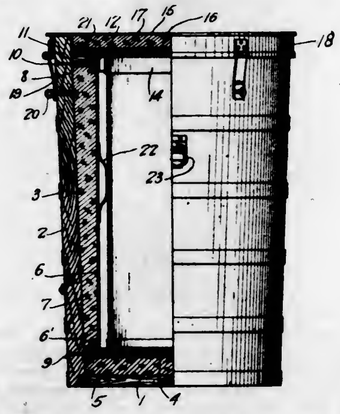


1,388,803. ATTACHMENT FOR MOTORCYCLES. Walter L. Craig, Washington, D. C. Filed July 17, 1920. Serial No. 397,014. 2 Claims. (Cl. 208—78.)



1. An attachment for motorcycles comprising a pair of levers mounted for pivotal movement upon the frame of a motorcycle upon opposite sides of the rear wheel, said levers including curved ground engaging portion and relatively wide extremities, to provide foot rests and means whereby the levers may be adjusted for either use.

1,388,804. SHIPPING-PACKAGE. Richard J. Decy, Jersey City, N. J. Filed Sept. 18, 1920. Serial No. 411,288. 5 Claims. (Cl. 217—5.)



I. A shipping package for ice cream, etc., comprising a tub having inner and outer walls with insulating material

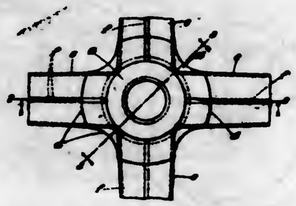
between said walls, an inner cover and gasket for hermetically sealing the inner wall, and an insulating cover fitting the upper edge of the outer wall.

1,388,805. CURLING-IRON. THOMAS L. DENNIS, New York, N. Y., assignor to George F. Parker, New York, N. Y. Filed Aug. 18, 1920. Serial No. 404,456. 4 Claims. (Cl. 219—24.)



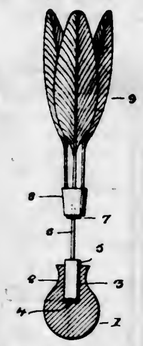
1. A curling iron comprising a heating bar, a handle carrying said heating bar and formed with a notch therein, a hair retaining member pivotally carried by said handle, the pivotal mounting of said retaining member being placed a short distance from one end, and means for depressing one end of the retaining member into said notch for elevating the opposite end.

1,388,806. HAND-WHEEL. HORACE WALTER DOVER, St. James, England. Filed Sept. 30, 1920. Serial No. 413,850. 2 Claims. (Cl. 74—33.)



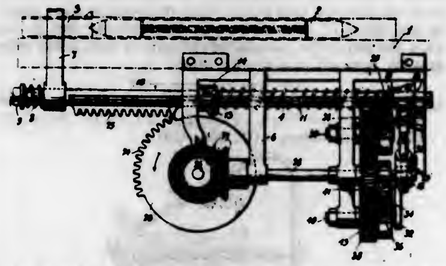
1. A hub for a hand wheel, formed peripherally with a groove adapted to receive the inner ends of the arms or spokes of the wheel said groove being bounded on two of its sides by flanges adapted to be pressed toward one another so as to fit closely around said arms.

1,388,807. EXPLODING TOY BOMB. LOUIS F. DUCK, De Kalb, Ill. Filed Dec. 13, 1919. Serial No. 344,641. 1 Claim. (Cl. 46—46.)



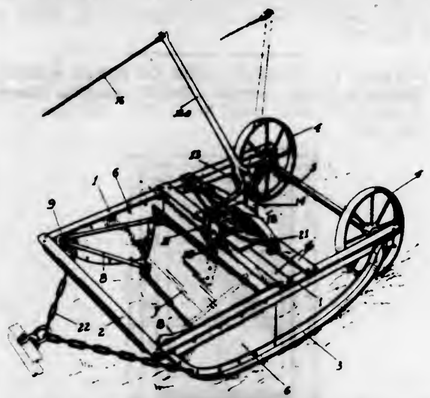
An aerial toy bomb comprising a relatively heavy base formed in it stop with a recess for the reception of caps, a plunger slidably engaged within said recess and carrying at its upper end a shaft formed intermediate its end with a disk, and a projectile member including a base slidably engaged upon the upper end of said shaft in abutting relation to the disk and carrying guide feathers.

1,388,808. LOOM. JACOB E. DUELKS, Boston, Mass. Filed Oct. 22, 1920. Serial No. 418,696. 8 Claims. (Cl. 139—48.)



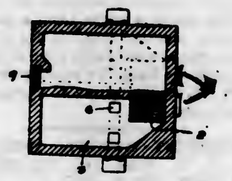
1. In a loom having a lay and a main frame, picker mechanism comprising a picker shaft, a spring for actuating the same on its shuttle-driving stroke, and direct gearing continuously connecting the lay and main frame and driven directly and continuously by the beats of the lay in both directions to retract said shaft against its spring and to release it to be driven forward on its shuttle-driving stroke by said spring.

1,388,809. SCRAPER. THEODORE EDGINTON, Cutler, Calif. Filed Jan. 2, 1920. Serial No. 348,764. 5 Claims. (Cl. 37—42.)



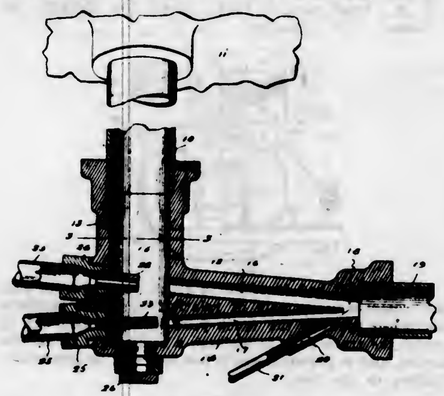
1. A scraper adapted to be drawn by a tractor comprising a frame, a scraping plate transversely mounted therein, a lever means mounted to the frame and connected to the plate for moving the latter downwardly with a pull on the lever, the latter being actuated from the tractor, and means for automatically causing the plate to move upwardly when the pull on the lever is released.

1,388,810. FURNACE. SAMUEL C. EVANS, New Castle, Pa. Filed Nov. 21, 1919. Serial No. 339,689. 1 Claim. (Cl. 263—40.)



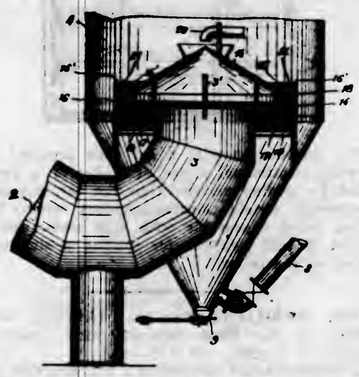
In a furnace a hearth or working chamber having doors at its front and rear ends, a grate at the rear of the furnace, an uptake leading from the hearth or working chamber at a point adjacent to the rear end of the furnace, means below the hearth or working chamber to conduct the products of combustion from the space above the grate to the forward end of the hearth or working chamber, and an air flue arranged transversely below and connected with the said conducting means at a point slightly in front of the grate, all in combination and for the purpose set forth.

1,388,811. LOCOMOTIVE SANDER ATTACHMENT. MACK J. FOWLER, Roanoke, Va. Filed Apr. 23, 1921. Serial No. 464,022. 4 Claims. (Cl. 291—11.)



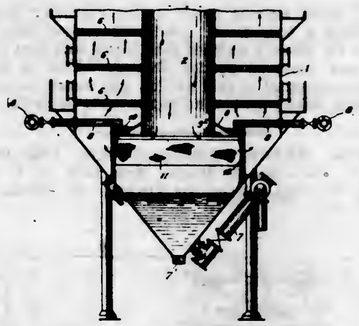
1. The combination with a sanding apparatus, of a discharge nozzle comprising a substantially L-shaped member including a vertical leg and a horizontal leg and adapted for connection with a sand supply, channels provided in the horizontal leg, said channels being spaced apart at their inner ends and having their outer ends communicating with a common outlet and air nozzles extending within the vertical arm of the L-shaped member and arranged to discharge air into the inner ends of each of the channels.

1,388,812. APPARATUS FOR WASHING GAS. WILBUR H. GEESMAN, Youngstown, Ohio, assignor of forty-eight one-hundredths to Arthur G. McKee & Company, Cleveland, Ohio, a Corporation of Delaware, twenty-six one-hundredths to F. E. Kling, Youngstown, Ohio, and twenty-six one-hundredths to L. B. Weidlein, Cleveland, Ohio. Filed Oct. 31, 1917. Serial No. 199,477. 13 Claims. (Cl. 261—111.)



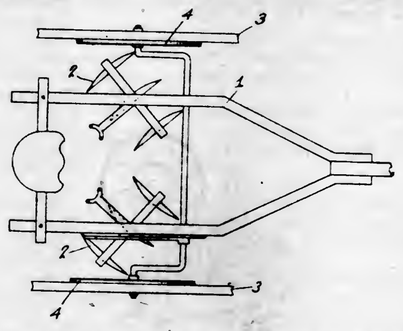
1. In a gas washer, the combination with a gas conduit and means passing gas therethrough; of means arranged to furnish water to said conduit, means arranged to cause the water to fall in a cascade through said conduit, means arranged to divert the gas horisontally through said cascade, and an annular screen disposed a spaced distance exteriorly of the latter for breaking up the water, resulting in an intimate mix of the latter and the gas.

1,388,813. MEANS FOR WASHING GAS. WILBUR H. GEESMAN, Youngstown, Ohio, assignor of forty-eight one-hundredths to Arthur G. McKee & Company, Cleveland, Ohio, a Corporation of Delaware, twenty-six one-hundredths to F. E. Kling, Youngstown, Ohio, and twenty-six one-hundredths to L. B. Weidlein, Cleveland, Ohio. Filed May 28, 1919. Serial No. 300,263. 5 Claims. (Cl. 261—111.)



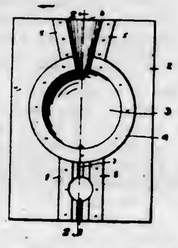
1. In a gas washer, the combination of a shell; a gas entrance thereto and a gas exit therefrom; means forming a gas conduit connecting said entrance and exit; means maintaining a water level in said shell in an area thereof removed from said entrance and contiguously to said gas conduit; means forming a substantially right angle turn in said conduit adjacently said water level; water-breaking means intersecting said right-angular direction of gas travel; and means providing a sheet of water falling forwardly of said breaking means.

1,388,814. WHEEL GUARD FOR WHEELED DISK HARROWS. WILLIAM H. C. HAMANN, Jr., Snyder, Nebr. Filed Sept. 28, 1920. Serial No. 413,381. Renewed July 8, 1921. Serial No. 483,342. 2 Claims. (Cl. 55—73.)



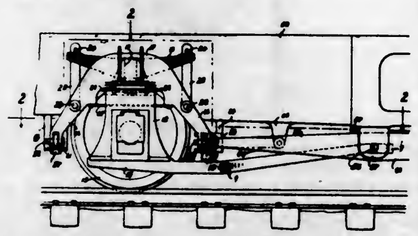
1. The combination with a ground wheel and a disk of a wheeled disk harrow, of an annular guard to protect the spokes of the ground wheel from the disk or disks; the said guard being fixedly connected to some of the spokes of the wheel and being interposed between the spokes and the disk or disks.

1,388,815. REPAIRING DEVICE. PETER HEDIN, Duluth, Minn. Filed Mar. 8, 1921. Serial No. 450,600. 3 Claims. (Cl. 22—116.)



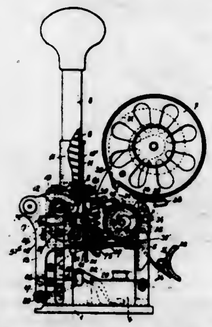
1. A patch forming device of the character described comprising a body block, a concaved portion within one face of the block, a recessed gate within said face leading into said concaved portion through which to deposit soldering material to said portion and means for holding the block tightly against an object being patched.

1,388,816. TRUCK. ERNEST R. HILL, East Orange, N. J., and JOHN W. MARSH, New York, N. Y. Filed Aug. 25, 1919. Serial No. 319,620. 26 Claims. (Cl. 105—82.)



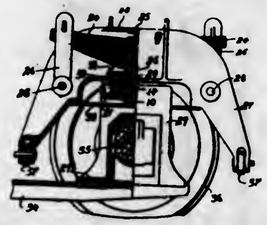
1. A radial truck for locomotives, comprising in combination, a railroad wheel and axle set, axle boxes journaled thereon, a yoke pivoted upon each axle box pivotally connected with a locomotive and capable of rocking motion transversely of the track upon which the truck runs, and a radius bar rigidly joined with the axle boxes.

1,388,817. DEVICE FOR SEVERING AND APPLYING STAMPS OR THE LIKE TO ENVELOPS OR OTHER SURFACES. FRANZ KAŠPAR, Olmutz Hodolein, Czecho-Slovakia. Filed Aug. 24, 1920. Serial No. 405,723. 16 Claims. (Cl. 216—27.)



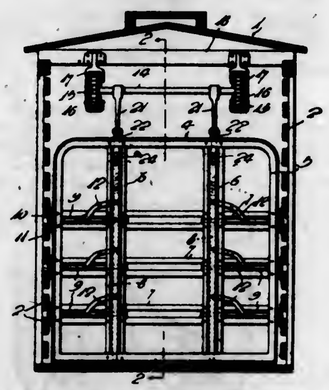
1. An implement for affixing stamps and the like, comprising a frame; a depressible operating element movable therein; mechanism actuated by said operating element during its movement in one direction for feeding a strip of stamps; a rocking lever having a pair of opposed cams; a member on said operating element engageable with one cam during the descent of the operating element for rocking said lever in one direction, and engageable with the other cam during the ascent of the operating element for rocking the lever in the opposite direction; and a moistening device connected to said lever for operation thereby and adapted to be dragged along the gummed face of the stamp to be affixed during the movement of said lever in one direction.

1,388,818. SWING-TRUCK-YOKE SUPPORT FOR RAILROAD ROLLING-STOCK. JOHN W. MARSH, New York, N. Y. Filed Nov. 7, 1919. Serial No. 336,817. 57 Claims. (Cl. 105—222.)



1. A support bed to mount a truck yoke over an axle box, comprising: a pair of relatively movable members interposed between the truck yoke and the axle box to permit the truck yoke to undergo a swingingly transverse motion, and to permit the axle box to travel longitudinally relative to the yoke.

1,388,819. ADJUSTABLE PARTITION FOR STOCK-CARS. JOSEPH RAYMOND MORIARTY, Hudson, Mich. Filed Nov. 22, 1920. Serial No. 425,792. 6 Claims. (Cl. 105—376.)



1. The combination with a car body provided in its sides with longitudinal series of seats; of a partition mounted for sliding movement in the car, horisontally and vertically movable locking members carried by the partition, being engageable with said seats, and links connected to said members for causing a simultaneous operation of the latter.

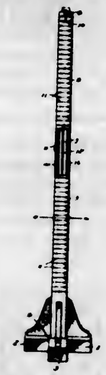
1,388,820. RESILIENT WHEEL. LEWIS A. NUCERA, Buffalo, N. Y. Filed July 25, 1919. Serial No. 313,277. 2 Claims. (Cl. 152—44.)

1. A resilient wheel comprising a hub structure having side plates, annular webs extending from one of the side plates to the second plate to hold the plates in spaced relation, radiating webs extending between the annular webs, means releasably connecting the second side plate with the annular webs, a spoke carrying rim positioned between the side plates of the hub structure and having



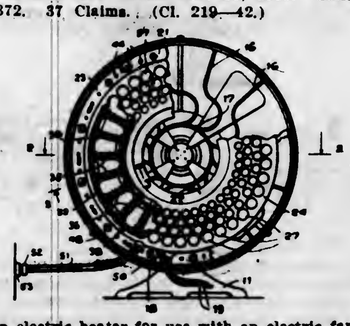
side walls and an annular web connecting said walls, and springs positioned between the annular web of the spoke carrying rim and one of the annular webs of the hub structure and connected therewith.

1,388,821. HURDLE AND VAULTING STANDARD. GEORGE E. PULLIAM, Mount Vernon, Ill. Filed Aug. 3, 1920. Serial No. 401,053. 2 Claims. (Cl. 46—69.)



1. In a standard of the class described two telescopically engaged members, a pulley carried by the fixed member, and a flexible element secured to the inner end of the slidable member and passed over said pulley to effect movement of said sliding member in one direction by a pull exerted on the free end of said element, a pin carried by said flexible element, and a plurality of longitudinally spaced sockets carried by the fixed member said pin being insertible in one of said sockets to hold the sliding member in adjusted position against the force of its weight.

1,388,822. CIRCULATOR-HEATER. HERMAN E. ROYS, New York, N. Y., assignor, by mesne assignments, to Universal Interests, Inc., New York, N. Y., a Corporation of Delaware. Filed Nov. 15, 1919. Serial No. 338,372. 37 Claims. (Cl. 219—42.)



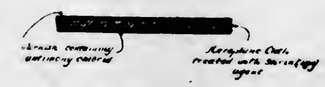
1. An electric heater for use with an electric fan comprising a heating unit and means for securing said unit to said fan, said means being constructed to coöperate with a fan of any size within a given range.

1,388,823. GRAIN-BAG HOLDER. IRA B. WHITE, Fort Worth, Tex. Filed June 11, 1921. Serial No. 476,662 3 Claims. (Cl. 83—26.)



1. In a device of the class described, the combination with a chute, of a pair of horizontal brackets fastened at their inner ends to the sides of the chute, a rod extending through the outer ends of said brackets, links pivotally mounted on said rod, another rod mounted upon said links, and manually operated means connected to one of said links for moving the links and the rod supported thereby with respect to the chute.

1,388,824. PROTECTIVE TREATMENT OF MATERIALS. ARTHUR ARENT, Des Moines, Iowa. Filed Sept. 20, 1918. Serial No. 254,958. 26 Claims. (Cl. 91—68.)



19. In a process of protectively treating material, the step of applying to the material a fire-retardant hydrolyzable compound of a metal dissolved in a non-aqueous solvent.

25. As a new article of manufacture, cloth for aeroplanes and the like comprising a fabric base carrying a shrinking agent and coated with a mixture of a gum and a hydrolyzable compound of a metal.

1,388,825. ART OF PROTECTIVELY TREATING MATERIALS. ARTHUR ARENT, Des Moines, Iowa. Filed Feb. 5, 1919. Serial No. 275,242. 33 Claims. (Cl. 91—68.)

1. The process of protectively treating material which comprises applying thereto a solution of a fire-retardant hydrolyzable metal compound in a menstruum comprising amyl acetate.

8. The process of preparing a liquid treating composition which comprises dissolving antimony trichlorid in amyl acetate, and mixing the solution with a varnish.

16. As a new composition of matter, a solution of an antimony salt of a mineral acid in amyl acetate, said solution yielding a substantially non-inflammable residue upon drying.

21. As a new composition of matter, a mixture of collodion, amyl acetate, and a water-insoluble antimony compound, said mixture yielding a substantially non-inflammable residue upon drying.

25. As a new fire-retardant composition of matter, a non-aqueous liquid material comprising coloring matter, a vehicle therefor, and a water-insoluble antimony compound dissolved in said vehicle.

1,388,826. TREATMENT OF MATERIALS TO REDUCE THEIR INFLAMMABILITY. ARTHUR ARENT, Des Moines, Iowa. Filed June 26, 1919. Serial No. 306,928. 16 Claims. (Cl. 23—5.)

15. A protective composition comprising creosote having antimony chlorid incorporated therewith.

1,388,827. PROTECTIVE MATERIAL. ARTHUR ARENT, Des Moines, Iowa. Filed Jan. 29, 1921. Serial No. 441,081. 15 Claims. (Cl. 23—5.)

7. As a new composition of matter for fireproofing and like purposes, a varnish containing a fire-retardant antimony salt in proportion sufficient to produce a non-inflammable varnish coating.

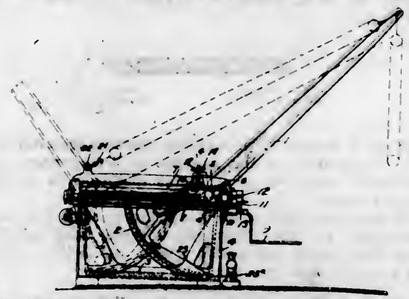
1,388,828. ART OF PROTECTIVELY TREATING MATERIALS. Arthur Arent, Des Moines, Iowa. Filed Jan. 29, 1921. Serial No. 441,082. 13 Claims. (Cl. 23—5.)

2. The process of waterproofing and decreasing the combustibility of fibrous material which comprises applying thereto a mixture of a drying oil, a fire-retardant antimony compound, and a volatile solvent.

1,388,829. PROTECTIVE TREATMENT OF MATERIALS. Arthur Arent, Des Moines, Iowa. Original application filed June 26, 1919. Serial No. 306,928. Divided and this application filed Jan. 29, 1921. Serial No. 441,084. 13 Claims. (Cl. 23—5.)

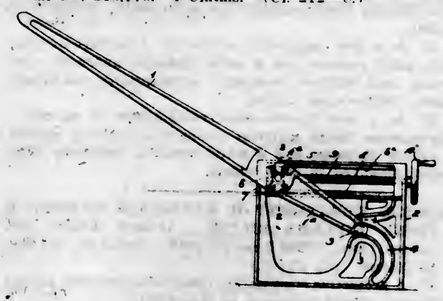
4. The process of protectively treating fibrous materials which comprises applying thereto a tarry substance having a fire-retardant hydrolysable compound of antimony incorporated therewith.

1,388,830. DAVIT AND CRANE. Harry W. Broady, Bayside, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Filed Aug. 11, 1919. Serial No. 316,775. 4 Claims. (Cl. 212—8.)



1. In a crane or davit, the combination with a suitably supported and pivoted davit arm and operating mechanism engaging said arm intermediate its ends for swinging the same to its normal extreme positions respectively, of means for connecting said arm and said operating mechanism to permit relative movement therebetween to permit swinging of the arm beyond one of such normal extreme positions.

1,388,831. CRANE OR DAVIT. Harry W. Broady, Bayside, N. Y., assignor to American Balsa Company, Inc., a Corporation of New York. Filed Aug. 11, 1919. Serial No. 316,776. 4 Claims. (Cl. 212—8.)



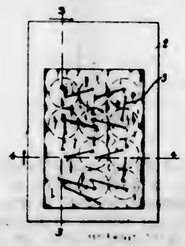
1. In a crane or davit, the combination with a frame having a rectilinear and substantially horizontal, rigid track at its upper end and a guiding slot below said track, of an arm supported on a pivot located between its ends and movable on the said track, and also having at its heel a guiding connection with the said guiding slot and means for moving said pivot along said horizontal track.

1,388,832. MANUFACTURE OF MEDICINAL OILS AND OTHER VISCOUS DECOLORIZED PRODUCTS OF PETROLEUM. Ernest B. Coss, Jersey City, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed June 7, 1917. Serial No. 173,312. 12 Claims. (Cl. 196—26.)



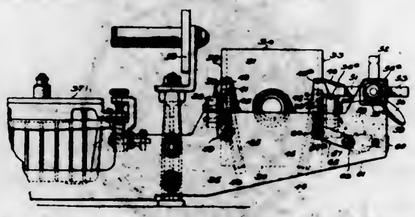
1. Stock for the manufacture therefrom of decolorised hydrocarbon oil, which stock has as a whole a viscosity above eighty seconds at 100° F. and is compounded of distillates, that belong to different types of petroleum, and are as a whole of different viscosities, and whose respective hydrocarbons have equal gravities over a range of gravities corresponding with the lighter end of the more viscous distillate, mixed together in such manner that between fifty per cent. and ninety five per cent. of said stock is distillate, which as a whole is heavier and more viscous than the stock as a whole, and whose hydrocarbons of equal gravities with hydrocarbons in the remainder of said stock are less viscous than these latter, substantially as described.

1,388,833. BUTTON-CARD. Lewis W. Harlem, New York, N. Y. Substitute for abandoned application Serial No. 358,274, filed Feb. 12, 1920. This application filed July 21, 1920. Serial No. 397,991. 6 Claims. (Cl. 211—34.)



1. In a button card having a paper body and having buttons sewed thereto by means of a running stitch of thread, the combination of the body of the said card and a thin tenacious film of adhesive which connects the back of the said card to the thread located adjacent thereto, the said film being substantially unaffected by moisture and heat, and being durable and flexible, the said film being absorbed by the said thread to thicken and strengthen it.

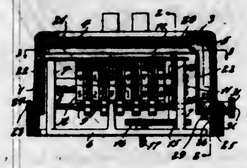
1,388,834. SPARK-GAP APPARATUS. Fritz Lowenstein, Brooklyn, N. Y. Filed Jan. 19, 1918. Serial No. 212,616. 46 Claims. (Cl. 250—38.)



1. A spark gap device comprising a pair of electrode members insulated from one another and having coöperating annular sparking surfaces disposed in parallel closely spaced relation, in combination with means extending between said members centrally of said sparking surfaces and serving to hold said members firmly together in operative relation, said device constituting a removable gap unit adapted for use in series with similar gap units in a complete spark gap.

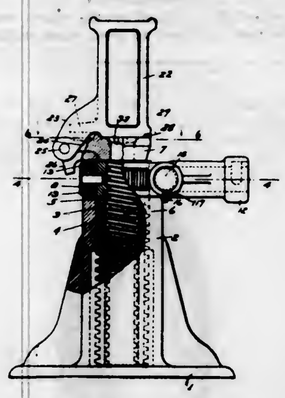
44. Spark gap apparatus, comprising a plurality of independently removable spark gap units connected in series, and means for automatically closing the circuit between adjacent gap units when a gap unit is removed.

1,388,835. METER. John H. Norris, New York, N. Y.; Emma M. Norris executrix of said John H. Norris, deceased. Filed Feb. 9, 1917. Serial No. 147,536. 4 Claims. (Cl. 235—1.)



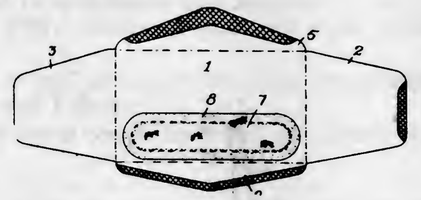
1. In a meter, indicating mechanism, a casing inclosing the indicating mechanism, and provided with a glass through which said mechanism is visible, a wiper comprising a member contacting with the inner surface of said glass and two arms connected with the ends of said member and pivotally mounted within the casing, and manually operable means for swinging the wiper about its pivots.

1,388,836. LIFTING-JACK FOR TRUCKS. Charles W. Ripsch, James C. Dawley, and Charles D. Derby, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a Corporation of Ohio. Filed Feb. 2, 1920. Serial No. 355,719. 19 Claims. (Cl. 254—100.)



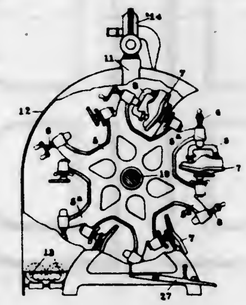
1. In a lifting jack, the combination with a base, a lifting element movably mounted on said base, and a ratchet wheel operatively connected with said lifting element, of a pawl to coöperate with said ratchet wheel, a lever operatively connected with said pawl, and a part rigidly secured to said lever and arranged to move said pawl into an inoperative position when said lever is moved about its longitudinal axis.

1,388,837. WINDOW-ENVELOP. Willard E. Swift, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a Corporation of Maine. Original application filed Mar. 2, 1915, Serial No. 11,574. Divided and this application filed Mar. 28, 1918. Serial No. 225,216. 2 Claims. (Cl. 229—71.)



1. As an article of manufacture, an envelop provided with a window opening in its face and having a margin of adhesive material around said opening, said opening and said margin being covered by a patch of semitransparent material, with a transparent solution applied to the outer surface of said patch but wholly within the limits of said opening.

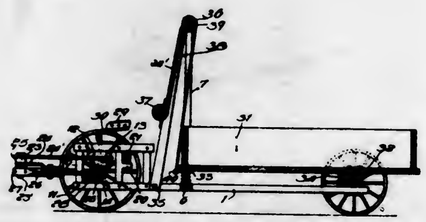
1,388,838. MULTIPLE PRESS FOR THE MANUFACTURE OF SHOES AND BOOTS. Eugen Gottfried Dihlmann, Leipzig-Reudnitz, Germany. Filed June 23, 1919. Serial No. 306,267. 1 Claim. (Cl. 12—37.)



In a press for manufacturing foot-wear by gluing the upper to the sole, the combination with a number of individual press-devices, arranged upon and around a horizontal shaft, so as to form a plurality of series, of a casing inclosing the said individual press-devices at the rear and the sides of the press, a heating device placed in said casing, an exhaust connected to the casing, and means for revolving the said individual press-devices in unison.

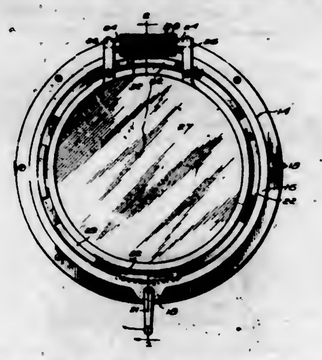
REISSUES.

15,180. DRAFT APPLIANCE FOR WAGONS AND THE LIKE. LAMBERT COPPOCK, Lebanon, Oreg. Filed May 21, 1921. Serial No. 471,497. Original No. 1,342,254, dated June 1, 1920, Serial No. 157,694, filed Mar. 27, 1917. 14 Claims. (Cl. 278—1.)



6. In a vehicle the combination of a draft bar, a load supporting frame swingingly suspended from the draft bar at a plurality of points, means adapted to make contact with the roadway and support the draft bar thereabove, means connecting the loading frame to the draft bar, said means normally tending to hang pendant under the weight of the loading frame and normally oscillating in a vertical plane under the draft bar stresses for the purpose described.

15,181. PORT-LIGHT. ALBERT H. KENNEWEG, Brooklyn, N. Y. Filed Apr. 18, 1921. Serial No. 462,430. Original No. 1,350,507, dated Aug. 24, 1920, Serial No. 374,345, filed Apr. 16, 1920. 8 Claims. (Cl. 144—178.)



1. The combination with a member having an annular opening and a hinged cover closing said opening, of a locking member rotatably mounted in said opening, and means actuated thereby to turn said cover on its hinge.

15,182. DISAZO DYE. WALTER M. RALPH, Buffalo, N. Y., assignor to National Aniline & Chemical Co., Inc., New York, N. Y., a Corporation of New York. Filed June 29, 1921. Serial No. 481,414. Original No. 1,371,979, dated Mar. 15, 1921, Serial No. 376,277, filed Apr. 24, 1920. 4 Claims. (Cl. 8—1.)

1. The herein described new diazo dye obtainable by diazotizing 1-amino-4-nitro-naphthalene-6 (or -7) monosulfonic acid coupling with m-amino-p-cresol methyl ether, again diazotising and coupling the diazotized intermediate with 2.8.6 amino-naphthol sulfonic acid, and reducing the nitro group, said dye, in the form of its sodium salt being a bluish black powder, soluble in water to give a blue solution from which hydrochloric acid produces a blue precipitate, and soluble in concentrated sulfuric acid to give a greenish blue solution, said dye dyeing cotton, wool, silk, and other fibers, bluish shades which can be developed to give fast blue-black to green-black shades.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 23, 1921.

[PUBLISHED SEPTEMBER 8, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 100,827. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) SIGNODE SYSTEM, INC., Chicago, Ill. Filed Jan. 22, 1917.



Particular description of goods.—Metal Strapping for Bails, Wooden Boxes, and the Like and Metallic Fastening Seals for Said Strapping.

Claims use since about Aug. 15, 1916.

Ser. No. 101,064. (CLASS 35. BELTING, HOSE, MACHINERY PACKING AND NON-METALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Jan. 31, 1917.



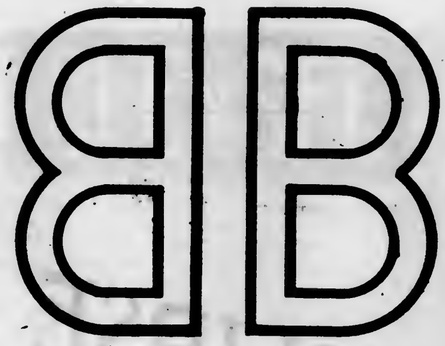
No claim being made to the pictorial representation of a tire apart from the mark as shown in the drawing.

The trade-mark consists in a black or substantially black central or peripheral band upon the outer surface of the tire body, black or substantially black side walls, and an arbitrarily-placed band of blue between the two black surfaces at one or both sides of the tire. The blue band or bands are usually narrower than either of the black bands, although the width of the blue bands may vary considerably.

Particular description of goods.—Elastic Vehicle-Tires.

Claims use since October, 1916.

Ser. No. 108,137. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BAYNE MANUFACTURING COMPANY, Bushnell, Ill. Filed Dec. 26, 1917.



Consists of the letters "B B" one being in normal and the other in reversed position.

Particular description of goods.—Shock-Absorbers, Shock and Rebound Absorbers, Tire and Wheel Carrying Attachments for Automobiles, Radius-Rods, Radius-Rod Supports, Fenders, Fender-Braces, Number-Plate Brackets, Windshields, Windshield Hinges and Frames, End-Gates for Wagons, and Shoveling-Boards for Wagons.

Claims use since on or about Nov. 1, 1917.

Ser. No. 111,984. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) Babbitt Steam Specialty Co., New Bedford, Mass. Filed July 8, 1918.

B-Square

Particular description of goods.—Sheet-Packing of Cured Rubber Composition, Compressed Asbestos Fiber, and/or Fabric and Rubber Adapted to Pack the Joints of Pipes, Engine-Cylinder Heads, and Any Other Joints Between Flat Surfaces to Resist Pressure of Gases, Vapors, or Liquids.

Claims use since May 10, 1918.

Ser. No. 116,739. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) Carson, Pirie, Scott & Co., Chicago, Ill., assignor to Carson Pirie Scott & Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 20, 1919.

CLIPPER

Particular description of goods.—Percale Dress Goods in the Piece.

Claims use since about 1908.

Ser. No. 117,621. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) Morgan Spring Company, Worcester, Mass., Filed Apr. 19, 1919.

ECLIPSE

Particular description of goods.—Wire Articles—Namely, Wire Hooks, Wire Chains, Wire Springs, Wire Towel-Racks, Wire Racks for Glasses, Jars, and Dishes, Wire Soap-Holders, Wire Trays, and Wire Dish-Drainers.

Claims use since January, 1900.

Ser. No. 117,783. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) William H. Rutland, Altus, Okla. Filed Apr. 23, 1919.

SURE SR RELIEF REMEDIES

No claim is made to the words "Sure Relief Remedies" apart from the trade-mark shown in the drawing.

Particular description of goods.—Medicinal Preparations for the Treatment of Affections of the Eye.

Claims use since Jan. 10, 1919.

Ser. No. 117,913. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) The Alvey-Ferguson Company, Cincinnati, Ohio. Filed Apr. 28, 1919.

A-F TRADE MARK

No claim is made to the words "Conveying" and "Machinery" or for the words "Trade Mark" apart from the mark shown in the drawing.

Particular description of goods.—Conveyers and Conveying Machinery—Namely, Gravity-Conveyers, Belt Conveyers, Spiral Chutes, Vertical Elevators, Scraper Conveyers, Screw Conveyers, Apron Conveyers, Inclined Automatic Elevators, Lowering-Machines, Live-Roller Conveyers, Piling-Machines, Tiering-Machines, Wagon-Loaders, Coal-Handling Conveyers, Ash-Conveyers, Beaded-Apron Conveyers, Roller-Spirals, Slides, and Conveyer-Supports—and Parts Thereof.

Claims use since Jan. 10, 1919.

Ser. No. 118,734. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) Edmond Jaeger, Paris, France. Filed May 20, 1919.

JAEGER PARIS

No claim is made to the word "Paris" apart from the mark shown in the drawing.

Particular description of goods.—Indicators of Revolution, Speed-Indicators, Altitude-Registering Anemometers.

Claims use since Feb. 11, 1919.

Ser. No. 122,095. (CLASS 2. RECEPTACLES.) United States Envelope Company, Springfield, Mass. Filed Aug. 28, 1919.

VICTOR DRINKING CUPS

No claim is made for the words "Drinking Cups," "Pat. Pend'g," or for the surrounding double panel, the trade-mark being confined to the word symbol "Victor."

Particular description of goods.—Paper Drinking-Cups.

Claims use since July 1, 1919.

Ser. No. 122,963. (CLASS 32. FURNITURE AND UPHOLSTERY.) Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Filed Sept. 22, 1919.

BESCO

Particular description of goods.—Tables, Chairs, and Stools in Which the Legs of the Tables, Chairs, and Stools and the Backs of the Chairs Are Composed of Wire Bent in Various Designs and Scrolls for Ornamentation Purposes, Which Tables, Chairs, and Stools are Those Commonly in Use Around Confectionery-Stores, Ice-Cream Parlors, and Like Places.

Claims use since Mar. 21, 1913.

Ser. No. 122,964. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Filed Sept. 22, 1919.

BESCO

Particular description of goods.—Ice-Picks, Ice-Tongs, Milk-Can Carriers, Ice-Crushers, Ice-Scrapers, Ice-Shavers, Ice-Scoops, Ice-Cream-Can Carriers, Lemon-Squeezers, Ice-Cream-Soda and Sherbet Spoons of Base Metal, Tumbler-Washers, Drink-Mixers.

Claims use since Mar. 21, 1913.

Ser. No. 125,163. (CLASS 39. CLOTHING.) Penn Shoe & Overgaiter Co., Philadelphia, Pa. Filed Nov. 21, 1919.

GLOV-FIT

Particular description of goods.—Spats and Overgaiters.

Claims use since Apr. 1, 1919.

Ser. No. 126,332. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) John Paterson & Co., Ltd., Glasgow, Scotland. Filed Dec. 22, 1919.

CLENSEL

Particular description of goods.—A Liquid Compound for Toilet Use in Connection with Hot or Cold Water for Bathing the Person, Washing the Hair, Removing Grease from the Hands, and for Bathing the Feet.

Claims use since January, 1898.

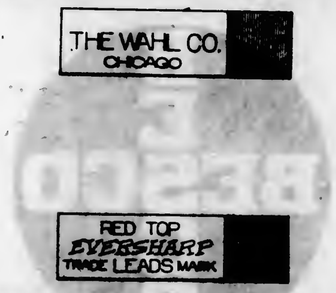
Ser. No. 126,333. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) John Paterson & Co., Ltd., Glasgow, Scotland. Filed Dec. 22, 1919.

CLENSEL

Particular description of goods.—Liquid Insecticides.

Claims use since January, 1898.

Ser. No. 128,122. (CLASS 37. PAPER AND STATIONERY.) THE WAHL COMPANY, Chicago, Ill. Filed Feb. 7, 1920.



The mark consists of the box having the top or cover thereof colored red and having inscribed on one of the wider sides "Red Top Eversharp Trade Leads Mark" and on the opposite side "The Wahl Co. Chicago," no claim being made herein to the words "The Wahl Co.," "Chicago," "Trade Mark," or "Leads" except in association with the other features shown, and no claim is made broadly to the representation of a container. The cover or top portion of the container, as heretofore stated, is to be painted red, and the parallel lines in Figures 1 and 2, illustrate the colored portion of said container.

Particular description of goods.—Leads Suitable for Use in Mechanical Pencils.

Claims use since Feb. 2, 1920.

Ser. No. 128,498. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Feb. 17, 1920.

TITANIC

Particular description of goods.—Belting Made of Fabric Combined with Rubber.

Claims use since about 1900.

Ser. No. 129,586. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COOPER & COOPER, INC., New York, N. Y. Filed Mar. 12, 1920.

C&C
CHEMICALS

No claim is made to the exclusive use of the word "Chemicals" apart from the mark as shown on the drawing.

Particular description of goods.—Acetaldehyde, Acetanilid, Acetic Anhydrid, Acetone, Acetophenone, Acetphenetidin, Acetyl Chlorid, Acetylene, Acetylene Tetrachlorid, Acetylsalicylic Acids—Namely, Acetic, Arsenic, Arsenious, Benzoic, Beta-Naphthol-Sulfonic, Boracic, Bromic, Butyric, Camphoric, Carbolic, Chlorosulfonic, Chromic, Cinnamic, Citric, Cresotinic, Cresylic, Electrolyte, Formic, Gallic, Glycerophosphoric, Hydriodic, Hydrobromic, Hydrochloric, Hydrocyanic, Hydrofluoric, Hydrofluosilic, Hypophosphorous, Iodic, Lactic, Metaphosphoric, Molybdic, Monochloracetic, Monosulfonic, Muriatic, Naphthalene Sulfonic, Naphthionic, Naphthylamin Sulfonic, Nitrating, Nitric, Oleic, Oxalic, Para-Amido-Salicylic, Perchloric, Phosphoric, Phosphotungstic, Phthalic, Picramic, Picric, Pyroacetic, Pyroligneous, Rosolic, Salicylic, Stearic, Sulfanilic, Sulfuric, Sulfurous, Tannic, Tartaric, Toluol-Sulfuric, Tungstic, Valeric, Vanadic; Amyl Alcohol, Butyl Alcohol, Denatured Alcohol, Alpha-Naphthylamin, Ammonium Alum, Burnt Alum, Chrome-Ammonium Alum, Chrome-Potassium Alum, Chrome-Sodium Alum, Ferric Alum, Potassium Alum, Alumina, Aluminum Acetate, Aluminum Ammonium Sulfate, Aluminum Fluorid, Aluminum Chlorid, Aluminum Hydroxid, Aluminum Nitrate, Aluminum Oleate, Aluminum Oxid, Aluminum Phosphate, Aluminum Stearate, Sulfate of Alumina, Amido-Azo-Benzol, Amidonaphthol, Ammonium Acetate, Anhydrous Ammonium, Aqua Ammonium, Ammonium Benzoate, Ammonium Bicarbonate, Ammonium Bifluorid, Ammonium Binoxalate, Ammonium Borate, Ammonium Bromid, Ammonium Carbonate, Ammonium Chlorid, Ammonium Chromate, Ammonium Fluorid, Ammonium Iodid, Ammonium Molybdate, Ammonium Nitrate, Ammonium Oxalate, Ammonium Perchlorate, Ammonium Persulfate, Ammonium Phosphate, Ammonium Picrate, Ammonium Salicylate, Ammonium Stearate, Ammonium Sulfate, Ammonium Sulfid, Ammonium Sulfocyanate, Ammonium Tartrate, Ammonium Tungstate, Ammonium Vanadate, Amyl Acetate, Amyl Butyrate, Amyl Formate, Amyl Valerate, Amyl Valerianate, Anilin Dyes, Anilin Hydrochlorid, Anilin Oil, Anilin Salts, Antimony Chlorid, Crimson Sulfid, Antimony Lactate, Antimony Oxalate, Antimony Oxid, Antimony Potassium Tartrate, Antimony Salts, Sulfuret of Antimony, Antimony Sulfite, Antimony Tartrate, Antimony Tribromid, Antipyrine, Argols, Arsenate Lead, Arsenate Soda, Arsenic, Arsenic Bromid, Red Arsenic, Arsenic Salts, Arsenic Sulfid, Arsenic Trioxid, White Arsenic, Arsenious Iodid, Soda-Ash, Atropin Alkaloid, Atropin Sulfate, Aurantine, Barium Acetate, Barium Bromid, Barium Carbonate, Barium Chlorate, Barium Chlorid, Barium Cyanid, Barium Fluorid, Barium Hydrate, Barium Hydroxid, Barium Monoxid, Barium Nitrate, Barium Oxid, Barium Peroxid, Barium Sulfate, Barium Sulfid, Barium Sulfocyanid, Beechwood Creosote, Benzaldehyde, Benzidin, Benzol, Benzoyl, Benzyl Acetate, Benzyl Alcohol, Benzyl Benzoate, Benzyl Chlorid, Beryllium, Beryllium Nitrate, Beryllium Oxid, Beryllium Silicate, Beta-Naphthol, Beta-Naphthyl, Betanaphthylamin, Betanaphthyl Salicylate, Bicarbonate Ammonium, Bicarbonate Potash, Bicarbonate Soda, Bismuth, Bismuth Acetate, Bismuth Beta-Naphtholate, Bismuth Carbonate, Bismuth Chlorid, Bismuth Nitrate, Bismuth Subnitrate, Bismuth Sulfid, Bismuth Tribromphenolate, Chlorid of Lime, Bluestone, Borax, Brimstone, Bromin, Cadmium, Cadmium Bromid, Cadmium Carbonate, Cadmium Chlorid, Cadmium Iodid, Cadmium Potassium Iodid, Cadmium Sulfate, Cadmium Sulfid, Cæsium Alum, Cæsium Chlorid, Cæsium Nitrate, Cæsium Silicate, Caffein, Caffein Alkaloid, Caffein Benzoate, Caffein Bromid, Caffein Citrated, Caffein Hydrobromate, Caffein Sodium Benzoate, Caffein Sodium Salicylate, Caffein Sulfate, Calcium, Calcium Acetate, Calcium Acid Phosphate, Calcium Arsenate, Calcium Bisulfid, Calcium Bisulfite, Calcium Bromid, Calcium Carbid, Calcium Carbonate, Calcium Chlorid, Calcium Ferrocyanid, Calcium Fluorid, Calcium Glycerophosphate, Calcium Hypochlorite, Calcium Hypophosphite, Calcium Lactophosphate, Calcium Linoleate, Calcium Magnesium Chlorid, Calcium Molybdate, Calcium Nitrate, Calcium Oxalate, Calcium Oxid, Calcium Perborate, Calcium Permanganate, Calcium Peroxid, Calcium Phosphate, Calcium Phosphate Monobasic, Calcium Phosphid, Calcium Resinate, Calcium Stearate, Calcium Sulfate, Calcium Sulfid, Calcium Sulfite, Calcium Sulfo-Carbolate, Calcium Superphosphate, Calcium Tungstate, Calomel, Camphor, Camphor Gum, Camphor Monobromate, Carbon, Carbon Bisulfid, Carbon Dioxid, Carbon Tetrachlorid, Caustic Soda, Cellulose Acetate, Chloral Hydrate,

Chlorin, Chromium Acetate, Chromium Alum, Chromium Bisulfate, Chromium Chlorid, Chromium Fluorid, Chromium Hydroxid, Chromium Oxid, Chromium Sulfate, Chromic Acid, Chrysarobin Cobalt Acetate, Cobalt Ammonium Sulfate, Cobalt Carbonate, Cobalt Chlorid, Cobalt Hydrate, Cobalt Linoleate, Cobalt Nitrate, Cobalt Oleate, Cobalt Oxid, Cobalt Resinate, Cobalt Sulfate, Cobalt Tungstate, Copper Acetate, Copper Carbonate, Copper Chlorid, Copper Cyanid, Copper Fluorid, Copper Nitrate, Copper Oxid, Copper Resinate, Copperas, Corrosive Sublimate, Cream-Tartar, Creosote, Creosote Carbonate, Creosote Cresol, Creosote Oil, Cresol, Crimson Antimony, Cyanid, Cyanid Chlorid, Cyanid Potassium, Cyanid Soda, Dinitranilin, Dinitrobenzol, Dinitrochlorbenzol, Dinitronaphthalene, Dinitrophenol, Dinitrotoluol, Diphenylamin, Divi-Divi, Dyestuffs, Dyewood Extract, Epsom Salts, Ether Sulfuric, Ethyl Acetate, Ethyl Bromid, Ethyl Chlorid, Ethyl Formate, Ethyl Iodid, Eucalyptol, Feldspar, Ferric Ammonium Sulfate, Ferric Chlorid, Ferric Nitrate, Ferric Oxid, Ferric Sulfate, Ferrous Chlorid, Fluorid Salts, Formaldehyde, Formic Acid, Formin, Fuchsin, Fustic Extract, Chestnut-Oak Extract, Cutch Extract, Divi-Divi Extract, Gall Extract, Gambier Extract, Hematin Extract, Hemlock Extract, Hypernic Extract, Indigo Extract, Larch Extract, Logwood Extract, Mangrove Extract, Myrobalans Extract, Oak Extract, Osage-Orange Extract, Quebracho Extract, Quercitron Extract, Spruce Extract, Sumac Extract, Tannin Extract, Valonia Extract, Wattle-Bark Extract, Gelatin, Glauber Salts, Glycerin, Glycerophosphates, Guaiacol, Hematin, Hexachlorethane, Hexamethylene Tetramin, Hydrogen Peroxid, Hydroquinon, Hyposulfite Soda, Ichthyol, Indigo, Indigotin, Iodin, Iodin Salts, Iodin Tribromid, Iodoform, Iron Chlorid, Iron Chromate, Iron Cyanid, Iron Iodid, Iron Oxid, Iron Perchlorid, Iron Perhydrogen, Iron Phosphate, Iron Pyrites, Iron Sulfid, Lactic Acid, Lactose, Sugar of Lead, Lead Arsenate, Lead Hyposulfite, Lead Linoleate, Lead Molybdate, Lead Nitrate, Lead Resinate, Lead Sulfate, Lithium Benzoate, Lithium Bromid, Lithium Carbonate, Lithium Citrate, Lithium Fluophosphate, Lithium Fluorid, Lithium Iodid, Lithium Salicylate, Lye, Magnesium Bromid, Magnesium Carbonate, Magnesium Chlorid, Magnesium Citrate, Magnesium Fluorid, Magnesium Nitrate, Magnesium Oxid, Mercuric Bromid, Mercuric Chlorid, Mercuric Nitrate, Mercuric Oxid, Mercuric Sulfid, Mercurous Chlorid, Mercury Cyanid, Mercury Iodid, Mercury Bichlorid, Methyl Salicylate, Meta Nitranilin, Meta Nitroparatoluidin, Meta Phenylenediamin, Meta Toluylenediamin, Manganese Acetate, Manganese Borate, Manganese Carbonate, Manganese Chlorid, Manganese Copper, Manganese Dioxid, Manganese Hydroxid, Manganese Linoleate, Manganese Oleate, Manganese Oxid, Manganese Resinate, Manganese Sulfate, Menthol, Methyl Acetate, Methyl Acetone, Methyl Bromid, Methyl Chlorid, Methyl Iodid, Methyl Orange, Methyl Red, Methyl Salicylate, Molybdic Acid, Monobrombenzol, Monochlorbenzol, Monoethylanilin, Mordants, Myrbane Oil, Naphthalene, Naphthol, Naphthol Alpha, Naphthol Beta, Naphthylamin, Nickel Ammonium Sulfate, Nickel Carbonate, Nickel Chlorid, Nickel Hydroxid, Nickel Nitrate, Nickel Oxid, Nickel Sulfate, Nigrosin, Nitrobenzol, Nitrophenol, Nitrotoluol, Anilin Oils, Banana-Oils, Castor-Oil, Cocoanut-Oil, Cod-Liver Oil, Creosote-Oil, Eucalyptus-Oil, Fusel-Oil, Turkey-Red Oil, Paracresol, Paraformaldehyde, Paraldehyde, Paramidophenol, Paranitranilin, Paraphenylenediamin, Paris Green, Hydrogen Peroxid, Soda Peroxid, Phenol, Phenolphthalein, Phosphate of Lime, Phosphoric Anhydrid, Phosphorus, Phosphorus Amorphous, Phosphorus Yellow, Potassium, Potassium Acetate, Potassium Bicarbonate, Potassium Bichromate, Potassium Binoxalate, Potassium Bisulfate, Potassium Bitartrate, Potassium Bromate, Potassium Bromid, Potassium Carbonate, Potassium Caustic, Potassium Chlorate, Potassium Chlorid, Potassium Chromate, Potassium Creosote Sulfonate, Potassium Cyanid, Potassium Hydroxid, Potassium Hypophosphite, Potassium Iodid, Potassium Magnesium Sulfate, Potassium Meta Bisulfite, Potassium Muriate, Potassium Nitrate, Potassium Oxalate, Potassium Perchlorate, Potassium Permanganate, Potassium Persulfate, Potassium Prussiate, Potassium Pyrosulfite, Potassium Silicate, Potassium Sodium Tartrate, Potassium Sulfate, Potassium Sulfid, Potassium Sulfocyanid, Prussiate of Soda, Pyrogalol, Pyridin, Quinidin, Quinidin Alkaloid, Quinidin Sulfate, Quinin, Quinin Hydrobromid, Quinin Hydrochlorid-Chlorhydrate, Quinin Sulfate, Resorcin, Resorcinol, Rochelle Salts, Anilin Salt, Cake-Salt, Tartar Salt, Silicon Tetrachlorid, Silver Salts, Starch, Soluble Starch, Strontium Bromid, Strontium Carbonate, Strontium Iodid, Strontium Nitrate, Strontium Sulfate, Sulfur Black, Sulfur Chlorid, Sulfur Roll, Sublimed Sulfur; Soda—Namely, Acetate, Aluminate, Arseniate, Benzoate, Bichromate, Bin Arseniate, Bisulfate, Bitartrate, Bromid, Borate, Carbonate, Chlorate, Chlorid, Chromate, Citrate, Cresolate, Crystals, Cyanid, Ferricyanid, Fluorid, Hydroxid, Hyposulfite, Iodid, Monohydrate, Nitrate, Nitrite, Nitroprussid, Oxalate, Perborates, Peroxid, Phosphate, Phosphate Tribasic, Prussiate, Resinate, Silicate, Salicylate, Silico Fluorid, Stannate, Sulfate, Sulfid, Sulfite; Tanala; Cream-Tartar, Emetic Tartar, Tartar Salts, Tartrates, Tetrachlorid, Thymol, Tin Bichlorid, Tin Chlorid, Muriate of Tin, Tin Hydrate, Tin Oxid, Tin Tetrachlorid, Titanium Oxid, Titanium Oxalate, Titanium Potassium Oxalate, Titanium Tetrachlorid, Toluidin, Toluol, Trinitrotoluol, Ultramarine, Uranium Acetate, Uranium Nitrate, Uranium Oxids, Uranium Oxylate, Vitriol Oil, Beeswax, Zinc Chlorid, Zinc Cyanid, Zinc Nitrate, Zinc Oxid, Zinc Peroxid, Zinc Stearate, Zinc Sulfate, Zinc Sulfid, Zirconium Silicate; Marble Floor, (pulverized Calcium Carbonate;) Acid Colors—Namely, Black, Blue, Navy Blue, Violet 4B, Orange II, Ponceau 2G, Yellow, Azo Yellow, Tartrazin, Red A, Amaranth, Crocein, Scarlet 3BX, Carmosin, Brilliant Scarlet, Brilliant Red NR, Magenta BR, Red, Brilliant Scarlet 3RS, Green M, Green G, Green 2G, Yellow, (Tartrazin Concentrated,) Blue 2R, Navy Blue B, Violet 10B, Orange 11, Brilliant Scarlet 3RS; Basic Colors—Namely, Nigrosin W. S. Blue, Nigrosin W. S. Black, Methylene Blue, Basic Navy Blue, Methyl Violet 4BX, Auramin 00, Fuchsin Crystals, Safranin, Malachite, Green Crystals 100%, Bismarck Brown Y, Bismarck Brown R, Bismarck Brown 3R, Chrysoidin R, Chrysoidin Y, Auramin; Chrome Colors—Namely, Black, Brilliant Blue, Brown, Green, Orange, Red A, Blue; Direct Colors, Including Black, Niagara Blue 2B, Sky Blue, Blue BX, Violet BS, Violet BR, Orange G, Orange 2R, Yellow, Brown C, Congo Red 4B, Red 4B, Bordeaux R, Corinth CC, Green WT, Brilliant Green, Benzo Purpurin 4B, Violet, Orange 2G; Intermediates for the Manufacture of Dyestuffs—Namely, Acetic Anhydrid, Amidonaphthol Disulfonic Acid, Dimethylanilin; Logwood Solid, Logwood Paste, Ultramarine Blue, Wash-Blue, Leather Black, Chrome-Leather Black Liquid, Oil Black Base, Oil Black Liquid, Oil Black Solid, French Archil Extract, Egg-Yolk, Naphthol Yellow S, Oil Sale Anilin; Sulfur Colors—Namely, Black, Blue and Brown.

Claims use since January, 1920.

Ser. No. 130,143. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE KLENZAL CO. INC., Washington, D. C. Filed Mar. 24, 1920.

KLENZAL

The lining upon the drawing is intended to indicate a red background.

Particular description of goods.—A Paste Cleanser for Carpets, Rugs, and other Fabrics.

Claims use since Jan. 1, 1920.

Ser. No. 130,369. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARNETTE KNAPP, Los Angeles, Calif. Filed Mar. 30, 1920.



The picture in the trade-mark is fanciful.
Particular description of goods—Toilet Preparation Used as a Face-Pack.
Claims use since Dec. 1, 1918.

Ser. No. 130,589. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) COOPER & COOPER, INC., New York, N. Y. Filed Apr. 3, 1920.



No claim is made to the word "Chemicals" apart from the mark shown in the drawing.
Particular description of goods.—Pigments—Namely, Alumina Hydrate, a Solid Form of Alumina Hydroxid Used as a White Pigment for Making Paints; Barytes, Blanc-Fixe, Flake-White, Litharge, Lithopone, Metallic Paints, Orange Mineral; White Lead, Dry and in Oil; Red Lead, Dry and in Oil; Zinc Oxid; Dry Colors—Namely, Blacks, Comprising Bone, Carbon-Gas, Charcoal, Drop, Ivory, Lampblack, Mineral Blacks, Vine; Blues, Comprising Bronze, Celestial, Chinese, Milori, Prussian, Soluble, Ultramarine; Browns—Namely, Sienna Brown, Spanish Brown, Umber Brown, Vandyke Brown; Greens—Namely, Chrome, Paris Green, and Verdigris; Reds—Namely, Alizarin, Carmine, Amaranth, Crocus Martus, Eosin, Indian Red, Red Oxid, Para Red Toners, Purple Lake, Rose Pink, Toluidin Toner, Tuscan Red, Venetian Red, Vermilion; Yellows—Namely, Chrome, Ocher, Zinc Yellow; Colors in Oil—Namely, Coach Black, Drop Black, Lampblack, Chinese Blue, Prussian Blue, Ultramarine Blue, Imitation Cobalt, Sienna Brown, Turkey Umber, Chrome Green, Paris Green, Indian Red, Tuscan Red, Venetian Red, Chrome Yellow, Ocher; other Paint Materials—Namely, Bronze Powders, Casein Used in Making Cold-Water Paints, Copper Oxid, China, Clay Used as a White Pigment for Making Paints, Cobalt Oxid, Graphite Used for Making Stove-Paints, Magnesite Used as a White Pigment for Making Paints, Putty, Silex, Silicate of Soda Used as a White Pigment for Making Paints, Small, Whiting, and Paint-Varnishes.
Claims use since January, 1920.

Ser. No. 130,582. (CLASS 38. PRINTS AND PUBLICATIONS.) HARRY C. COWDERY, New York, N. Y. Filed Apr. 3, 1920.



Particular description of goods.—Pamphlets and Bound Publications; Printed, Embossed, and Engraved Business, Commercial, and Advertising Cards; Printed, Embossed, and Engraved Calling and Visiting Cards; Printed, Embossed, and Engraved Placards, and Printed, Embossed, and Engraved Invitations and Announcements.
Claims use since Sept. 1, 1919.

Ser. No. 130,786. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GEORGE WILLIAM BELDAM, London, England. Filed Apr. 7, 1920.



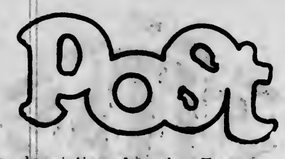
The word "Cup" being disclaimed.
Particular description of goods.—Rubber Sponges.
Claims use since July 11, 1918.

Ser. No. 131,049. (CLASS 32. FURNITURE AND UPHOLSTERY.) SUMMERFIELD COMPANY, Boston, Mass. Filed Apr. 12, 1920.



Particular description of goods.—Sofas, Couches, Davenports, Cedar Chests, Dressers, Chiffonniers, Wardrobes, Hall-Trees, Chaise-Lounges, Babies' Cribs, Bookcases, Bureaus, Lounges, Tea-Wagons, Pedestals, Chifforobes, Baby-Carriages, Reed Settees, Reed Chairs, Office-Chairs, Kitchen-Chairs, Dining-Room Chairs, Bassinets, Kitchen-Tables, Library-Tables, Consol-Tables, Sewing-Tables, Den-Tables, Kitchen-Cabinets, Desks, Extension-Tables, Card-Tables, Single Beds, and Twin Beds.
Claims use since Jan. 2, 1920.

Ser. No. 131,467. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) "THE E. B. CASSATT COMPANY," Cleveland, Ohio. Filed Apr. 22, 1920.



Particular description of goods.—Tractors.
Claims use since Dec. 1, 1919.

Ser. No. 131,501. (CLASS 5. ADHESIVES.) POMEROY INK MANUFACTURING CO., Newark, N. J. Filed Apr. 22, 1920.



Particular description of goods.—Mucilage, Paste, and Sealing-Wax.
Claims use since 1880.

Ser. No. 131,636. (CLASS 15. OILS AND GREASES.) THE JEWETT & SOWERS OIL CO., Chicago, Ill. Filed Apr. 26, 1920.

JEWELINE

Particular description of goods.—Motor-Lubricating Oils.
Claims use since Mar. 5, 1919.

Ser. No. 131,671. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STEWART-SKINNER COMPANY, Worcester, Mass. Filed Apr. 26, 1920.



No claim is made to the exclusive right to the word "Products" apart from the mark shown.
Particular description of goods.—Knife-Grinders, Scissors-Sharpeners, Clothesline-Pulleys, Butter-Merging Machines, Jar-Openers, and Hand Sewing-Awls.
Claims use since April, 1920.

Ser. No. 131,974. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. A. KRAUSE MILLING CO., Greenfield, Wis. Filed May 3, 1920.

De Luxe

Particular description of goods.—Cracked Corn for Poultry Feed, Known as Scratch Feed.
Claims use since about Dec. 24, 1919.

Ser. No. 132,364. (CLASS 39. CLOTHING.) RICHARDSON DRY GOODS CO., St. Joseph, Mo. Filed May 12, 1920.



Linnet

Particular description of goods.—Ladies' Neckwear—Namely, Berthas, Collars, and Scarfs.
Claims use since Oct. 15, 1919.

Ser. No. 132,376. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN PURCHASING CORPORATION, LTD., Toronto, Ontario, Canada, and New York, N. Y. Filed May 13, 1920.



Particular description of goods.—Linen and Cotton Table-Cloths, Napkins, Cover-Pieces, Sheets, Pillow-Cases, and Towels; Carpets; Tapestries, Including Decorative Fabrics Made of Wool, Cotton, or Cotton and Wool, Silk, and other Mercerized Cottons.
Claims use since June, 1919.

Ser. No. 133,032. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VANTEX CHEMICAL COMPANY, Memphis, Tenn., and New York, N. Y. Filed May 27, 1920.

Vantex

Particular description of goods.—Skin-Ointment.
Claims use since about Mar. 13, 1920.

Ser. No. 133,170. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TAYLOR TAMALE COMPANY, Los Angeles, Calif. Filed June 1, 1920.

44

Particular description of goods.—Chilli Sauce, Chilli-con-Carne with Frijoles, Boneless Spanish Chicken Tamales, Beans and Chilli, Spaghetti with Tomato Sauce.
Claims use since Apr. 28, 1920.

Ser. No. 133,323. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) MARBURG BROTHERS, INC., New York, N. Y. Filed June 5, 1920.



Particular description of goods.—Rolling Stock—Namely, Coaches, Trucks, Cars, Journal-Bearings, Springs, Wheels, and Parts Thereof; Ships and Boats, Automobiles, Parts, and Accessories Thereof—Namely, Wheels, Axles, Bodies, Windows, Curtains, Seats, Cushions, Coverings, Except Waterproof Coverings, Tops, Windshields, Fenders, Mud-Guards, and Shock-Absorbers.
Claims use since May 20, 1920.

Ser. No. 133,440. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DANIEL D. WOLFROM, San Francisco, Calif. Filed June 8, 1920.



Particular description of goods.—Polish for Automobiles, Floors, Wood and Varnished Surfaces.
Claims use since May 12, 1920.

Ser. No. 133,668. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MILL AND MINE SUPPLY CO., Seattle, Wash. Filed June 14, 1920.



Particular description of goods.—Power-Driven Pumps, Drag-Saws, and Iron Wedges, Hammers, Axes, Picks, and Handles for the Same and Peaveys.
Claims use since Jan. 1, 1908.

Ser. No. 133,775. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) HADFIELDS LIMITED, Sheffield, England. Filed June 16, 1920.

GALAHAD

Particular description of goods.—Unwrought and Partly-Wrought Steel, Comprising High-Speed Steel, Alloy-Steels, and Manganese Steel; Steel Castings and Forgings; Rails for Railways and Tramways; Railway and Tramway Points and Crossings.
Claims use since Feb. 22, 1918.

Ser. No. 134,811. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EVERETT, HEANEY & COMPANY, INC., New York, N. Y. Filed July 12, 1920.

DRIL LUJOSO

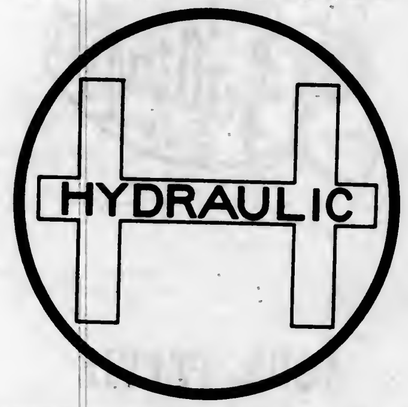
No claim being made to the word "Dril" apart from the mark shown.
Particular description of goods.—Cotton, Cotton and Woolens, Woolen and Linen, Woolen, Linen, and Combination of other Wool and Linen Piece Goods.
Claims use since Jan. 1, 1916.

Ser. No. 135,870. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Aug. 6, 1920.

CIBANIT

Particular description of goods.—Coal-Tar Colors.
Claims use since Aug. 9, 1915.

Ser. No. 135,925. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE HYDRAULIC STEEL COMPANY, Cleveland, Ohio. Filed Aug. 9, 1920.



Particular description of goods.—Rolled-Steel Sheets and Rolled Steel in Various Forms and Finishes.
Claims use since about July 28, 1920.

Ser. No. 135,958. (CLASS 17. TOBACCO PRODUCTS.) THE BALKAN SOBRANIE CIGARETTES LIMITED, London, England. Filed Aug. 10, 1920.



No claim is made to the words "The Balkan Sobranie Cigarettes" apart from the mark shown in the drawing.
Particular description of goods.—Cigarettes.
Claims use since August, 1919.

Ser. No. 136,773. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) UEHLING INSTRUMENT CO., Passaic, N. J., and New York, N. Y. Filed Sept. 2, 1920.

Check FUEL WASTE

The words "Check Fuel Waste" are hereby disclaimed apart from the mark shown by the drawing.
Particular description of goods.—Indicating and Recording Instruments for Use in Effecting Fuel-Saving, Pyrometers, Draft Indicators and Recorders, Carbon-Dioxid Recorders, and Carbon-Monoxid Recorders.
Claims use since July 9, 1920.

Ser. No. 137,045. (CLASS 39. CLOTHING.) SHAFT-PIERCE SHOE CO., Faribault, Minn. Filed Sept. 10, 1920.

PLAY GROVND

Particular description of goods.—Fabric, Rubber, Rubber Composition, and Leather Shoes.
Claims use since August, 1915.

Ser. No. 137,843. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) W. S. LIBBEY COMPANY, Lewiston, Me. Filed Oct. 2, 1920.

GOLDEN FLEECE

Particular description of goods.—Bed-Blankets Made of a Mixture of Cotton and Wool and Made Entirely of Cotton.
Claims use since July 30, 1919.

Ser. No. 137,985. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WHITING-MEAD COMMERCIAL CO., Los Angeles, Calif. Filed Oct. 5, 1920.



No claim is made to exclusive use of the word "California" apart from the mark shown on the drawing.
Particular description of goods.—Porcelain Enameled Bathtubs, Lavatories, Toilets, and All Toilet-Room Fixtures and Supplies—Namely, Foot-Baths, Shower-Baths, Sitz-Baths, Toilet Closet-Seats, Towel-Bars, Soap-Dishes, Toothbrush-Holders, Soap-Dish Holders, Toilet-Paper Holders, Bath-Seats, Comb and Brush Trays, Drainage-Fittings, Basin-Cocks, Bath-Cocks, and Shower-Heads.
Claims use since May 1, 1920.

Ser. No. 138,153. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE CHARLES ALFRED WALDECK COMPANY, INC., Baltimore, Md. Filed Oct. 9, 1920.

DESAVAPOR

Particular description of goods.—Vaporizing Apparatus.
Claims use since July 1, 1920.

Ser. No. 138,445. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BARNEY KITE, Chicago, Ill. Filed Oct. 18, 1920.



Applicant disclaims the words "Rheumatic Remedy," the picture shown in the drawing being merely fanciful and not the portrait of a living individual.

Particular description of goods.—A Preparation for the Treatment of Rheumatism, Neuralgia, Lumbago, and Disorders of the Liver and Kidneys.

Claims use since Jan. 1, 1920.

Ser. No. 138,577. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) LORIMER, GREENBAUM CO., INC., New York, N. Y. Filed Oct. 20, 1920.

"Floral"

Consisting of the word "Floral."

Particular description of goods.—Worsted Trimming for Use in Art-Needle Work.

Claims use since Sept. 24, 1920.

Ser. No. 138,641½. (CLASS 32. FURNITURE AND UPHOLSTERY.) SANITARY MATTRESS COMPANY, Minneapolis, Minn. Filed Oct. 21, 1920.



The words "Guaranteed Mattresses" and "Minneapolis, Minn.," are disclaimed apart from the other features of the mark.

Particular description of goods.—Mattresses.

Claims use since Sept. 1, 1920.

Ser. No. 138,642. (CLASS 32. FURNITURE AND UPHOLSTERY.) M. L. HIMMEL & SON, Baltimore, Md. Filed Oct. 21, 1920.

The Brilliant Ideal

Particular description of goods.—Showcases.

Claims use since 1910.

Ser. No. 138,714. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GEORGE FISHER, New York, N. Y. Filed Oct. 23, 1920.

AQUA PEEVIE

Particular description of goods.—Polish for Furniture.

Claims use since July 1, 1920.

Ser. No. 139,031. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. O. W. GREEN AND DR. L. O. GREEN, Chicago, Ill. Filed Nov. 1, 1920.

ACESTORIA

Particular description of goods.—A Local Anesthetic for Use in Painless Extraction of Teeth and in General Surgery.

Claims use since Nov. 1, 1890.

Ser. No. 139,035. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. L. O. GREEN, Chicago, Ill. Filed Nov. 1, 1920.



Particular description of goods.—An Ointment in Salve Form Possessing Antiseptic and Healing Qualities Used by Application upon the Skin for the Cure and Relief of Inflammations, Skin Diseases, Swellings, Insect-Bites, Croup, Sore Throat, Catarrh, Neuralgia, Rheumatism, Cuts, Burns, Piles, Headaches, Chapped Hands and Lips, and for a Special Flexible Hypodermic Needle, Being an Instrument Used for the Injection of Anesthetic or Other Medicines into the Flesh of the Body.

Claims use since Nov. 1, 1905.

Ser. No. 139,214. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MINERVA MOTORS, Antwerp, Belgium. Filed Nov. 5, 1920.

MINERVA

Particular description of goods.—Transmission Apparatus and Explosion-Motors for Motor-Cars, Motorcycles, and Aeroplanes.

Claims use since 1897.

Ser. No. 139,225. (CLASS 2. RECEPTACLES.) J. M. RAFFEL CO., Baltimore, Md. Filed Nov. 5, 1920. Under ten-year proviso.

J. M. RAFFEL CO.

Particular description of goods.—Corrugated-Fiber Packages, Folding Boxes, and Paper Boxes.

Claims use since 1887.

Ser. No. 139,552. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) T. F. SHURLY CO. LIMITED, St. Catharines, Ontario, Canada. Filed Nov. 11, 1920.



The following, being a disclaimer, is not part of the trade-mark—to wit, "St. Catharines," "Vanadium Steel," "Patent Ground," "The Saw," "Extra Temper," "Unequaled in Quality, Uniformity and Service," and "Trade Mark."

Particular description of goods.—Saws of all Kinds and Machine-Knives.

Claims use since July, 1916.

Ser. No. 139,581. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) KEYSTONE DIE CASTING CO., Norristown, Pa. Filed Nov. 12, 1920.



Particular description of goods.—Ingots of Non-Ferrous Metal.

Claims use since Mar. 1, 1920.

Ser. No. 139,681. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SOLENE PRODUCTS COMPANY, Perkasie, Pa. Filed Nov. 15, 1920.

SOLENE

Particular description of goods.—A Chemical Preparation for the Removal of Road-Tar from Auto-Bodies, Leaving a Polished Surface.

Claims use since Apr. 1, 1920.

Ser. No. 139,713. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CECIL JOHNSTON, Royse City, Tex. Filed Nov. 16, 1920.

CHILL CAPSULES
JOHNSTON'S

No claim being made to the words "Chill Capsules" appearing on the drawing apart from the mark as shown.

Particular description of goods.—For Treatment of Chills.

Claims use since Jan. 1, 1920.

Ser. No. 139,732. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. C. COLE MILLING CO., Chester, Ill. Filed Nov. 17, 1920.

FFFG

Particular description of goods.—Wheat-Flour.

Claims use since 1855.

Ser. No. 139,848. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) CHICAGO ORTHOPEDIC APPLIANCE COMPANY, Chicago, Ill. Filed Nov. 19, 1920.



Particular description of goods.—Deformity-Braces, Extension-Shoes, Artificial Limbs, Elastic Stockings, Abdominal Supporters, Arch-Supports, and Trusses.

Claims use since Dec. 10, 1919.

Ser. No. 139,862. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MICHIGAN WIRE GOODS CO., Niles, Mich. Filed Nov. 19, 1920. Under ten-year proviso.

"REDDICK'S"

Particular description of goods.—Doll Beds and Cribs.
Claims use since 1879.

Ser. No. 139,927. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ACME DIE CASTING CORPORATION, Brooklyn and New York, N. Y. Filed Nov. 22, 1920.

ALUMAC

Particular description of goods.—Non-Ferrous Castings, Such as Die-Castings.
Claims use since about Oct. 15, 1920.

Ser. No. 140,337. (CLASS 39. CLOTHING.) KANNER, MARKS & TRAURIG, New York, N. Y. Filed Nov. 27, 1920.

Youthcraft

Particular description of goods.—Misses' and Juniors' Suits and Coats.
Claims use since Dec. 15, 1920.

Ser. No. 140,688. (CLASS 32. FURNITURE AND UPHOLSTERY.) TUSKELOID COMPANY, INC., New York, N. Y. Filed Dec. 6, 1920.

TUSCULOR

Particular description of goods.—Hand and Wall Mirrors and Picture-Frames.
Claims use since July 1, 1916.

Ser. No. 140,695. (CLASS 32. FURNITURE AND UPHOLSTERY.) TUSKELOID COMPANY, INC., New York, N. Y. Filed Dec. 6, 1920.

TUSKELOID

Particular description of goods.—Hand and Wall Mirrors and Picture-Frames.
Claims use since July 1, 1916.

Ser. No. 140,739. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NEWPORT CHEMICAL WORKS, INCORPORATED, Passaic, N. J. Filed Dec. 7, 1920.

ANTHRENE

Particular description of goods.—Dyes.
Claims use since Sept. 10, 1920.

Ser. No. 140,886. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE HARDRIGHT COMPANY, Belleville, N. J. Filed Dec. 10, 1920.

STERILLO

Particular description of goods.—Lather-Brushes.
Claims use since Feb. 9, 1920.

Ser. No. 140,888. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE HARDRIGHT COMPANY, Belleville, N. J. Filed Dec. 10, 1920.

HARDRIGHT

Particular description of goods.—Lather-Brushes.
Claims use since June 24, 1913.

Ser. No. 140,889. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE HARDRIGHT COMPANY, Belleville, N. J. Filed Dec. 10, 1920.

YELLOW JACKET

Particular description of goods.—Lather-Brushes.
Claims use since Feb. 2, 1920.

Ser. No. 140,891. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) THE HARDRIGHT COMPANY, Belleville, N. J. Filed Dec. 10, 1920.

BLUEBEARD

Particular description of goods.—Lather-Brushes.
Claims use since Jan. 31, 1920.

Ser. No. 140,943. (CLASS 5. ADHESIVES.) L. HEMMERDINGER & CO., New York, N. Y. Filed Dec. 11, 1920. Under ten-year proviso.

NEVERBREAK

Particular description of goods.—Mending-Cement.
Claims use since 1888.

Ser. No. 140,974. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ALBERT WIELICH, New York, N. Y. Filed Dec. 11, 1920.

LIGHT HOUSE
MALT EXTRACT

No claim is made to the exclusive use of the words "Malt Extract" apart from the mark shown on the drawing.
Particular description of goods.—Malt Extracts.
Claims use since Nov. 15, 1920.

Ser. No. 141,146. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNION TWIST DRILL COMPANY, Athol and Mansfield, Mass. Filed Dec. 15, 1920.

FAVORITE

Particular description of goods.—Collets, Thread-Cutting Dies and Guides Therefor, Die-Holders, Screw-Plates, and Screw-Plate Stocks.
Claims use since 1892.

Ser. No. 141,242. (CLASS 10. FERTILIZERS.) SECURITY CEMENT & LIME CO., Hagerstown, Md. Filed Dec. 17, 1920.

HYDRA-CALCITE

Particular description of goods.—Calcareous Composition for Soil Improvement.
Claims use since the fall of 1916.

Ser. No. 141,542. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) UNITED SHOE MACHINERY CORPORATION, Paterson, N. J., and Boston, Mass. Filed Dec. 27, 1920. Under ten-year proviso.

GOODYEAR

Consists of the word "Goodyear."
Particular description of goods.—Machines, Their Parts and Accessories, and Tools Used in the Manufacture of Boots and Shoes, Comprising, Outsole-Lock-Stitch Machines, Inseam-Stitching Machines, Outsole-Stitch-Rubbing Machines, Bobbin-Winding Machines, Welt-Edge-Turning Machines, Welt Butting and Tacking Machines, Welt-Splitting Machines, Welt Grooving and Beveling Machines, Welt Beating and Slashing Machines, Welt Indenting and Burnishing Machines, Tack-Pulling Machines, Tack Pulling and Resetting Machines, Outsole-Channel-Shank-Reducing Machines, Inseam-Trimming Machines, Turn-Shoe-Trimming Machines, Insole-Heel-Seat-Trimming Machines, Insole-Toe-Snipping Machines, Channeling-Machines, Welt-Beating Machines, Skiving-Machines, Insole-Channeling and Lip-Turning Machines, Rounding and Channeling Machines, Channel-Opening Machines, Channel-Laying Machines, Jointing-Machines, Lip Turning and Slashing Machines, Insole-Toe-Lip-Forming Machines, Power Molding-Machines, Sole-Laying Machines, Sole Tacking and Laying Machines, Sole-Leveling Machines, Presses, Pounding-Machines, Sole-Flexing Machines, Grinding-Machines, Stapling-Machines, Edge Setting and Wheeling Machines, Pattern-Generating Machines, Forepart-Turning Machines, Heel-Turning Machines, Tack-Pullers, Needles, and Awls.
Claims use since prior to 1891.

Ser. No. 141,694. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MARIANTHI F. STAMOS, Canajoharie, N. Y. Filed Dec. 30, 1920.

SEVEN BEAUTY CREAM



The portrait being that of Mary Kratas, and no claim being made to the exclusive use of the words "Beauty Cream" apart from the mark as shown in the drawing.
Particular description of goods.—A Cream for Beautifying the Skin.
Claims use since Nov. 1, 1920.

Ser. No. 141,765. (CLASS 15. OILS AND GREASES.) JOHN DUNN, SON & CO., New York, N. Y. Filed Jan. 3, 1921.



GUANACO

Particular description of goods.—Lubricating Oils and Greases.
Claims use since 1901.

Ser. No. 141,813. (CLASS 32. FURNITURE AND UPHOLSTERY.) TONK MANUFACTURING CO., Chicago, Ill. Filed Jan. 3, 1921.

Tonkbench

Particular description of goods.—Piano-Benches.
Claims use since June 2, 1920.

Ser. No. 141,851. (CLASS 39. CLOTHING.) ABRAHAM CHANOVITZ, New York, N. Y. Filed Jan. 5, 1921.

Aetna

Particular description of goods.—Men's Silk Dress-Shirts.
Claims use since Nov. 6, 1919.

Ser. No. 142,075. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FLORIDA JENNETH HART, Fort Wayne, Ind. Filed Jan. 11, 1921.

LACO

Particular description of goods.—A Preparation for Treatment of Diseases Peculiar to Females.
Claims use since November, 1917.

Ser. No. 142,098. (CLASS 39. CLOTHING.) THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa. Filed Jan. 11, 1921.



Particular description of goods.—Wool Underwear and Cotton Underwear for Men, Women, and Children, Made of Knitted and Textile Fabrics, Also Knit Corset-Covers for Women.
Claims use since Dec. 17, 1907.

Ser. No. 142,099. (CLASS 39. CLOTHING.) THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa. Filed Jan. 11, 1921.



Particular description of goods.—Hosiery.
Claims use since May 22, 1906.

Ser. No. 142,188. (CLASS 7. CORDAGE.) W. H. WORDEN CO., San Francisco, Calif. Filed Jan. 12, 1921.

TIMBEROPE

Particular description of goods.—Wire Rope for General Purposes, Hauling, Hoisting, Logging, &c.
Claims use since July 3, 1906.

Ser. No. 142,211. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DANIEL A. FLOOD, Okmulgee, Okla. Filed Jan. 13, 1921.

FLOOD'S OINTMENT

D. A. Flood

The name "D. A. Flood" is a facsimile of the signature of the applicant. No claim is made to the exclusive use of the word "Ointment" except when used in conjunction with other features of the mark.

Particular description of goods.—An Ointment Having Medicinal Properties, and Especially Useful in Treatment of Cuts, Burns, Boils, Stings, Insect-Bites, Old Sores, Felons, Scalds, and Wounds.
Claims use since Jan. 1, 1907.

Ser. No. 142,264. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) METAL AND ALLOY SPECIALTIES COMPANY, INC., Buffalo, N. Y., assignor, by mesne assignments, to Heirloom Aluminum Corporation, Buffalo, N. Y., a Corporation of New York. Filed Jan. 14, 1921.

Heirloom

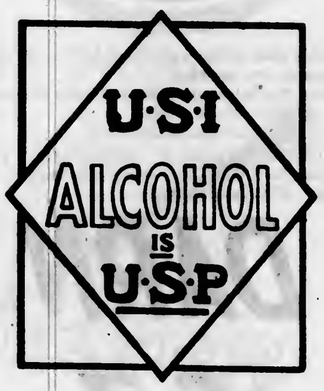
Particular description of goods.—Metal Kettles, Pots, Pans, Skillets, Griddles, Dishes, and Trays.
Claims use since Dec. 14, 1919.

Ser. No. 142,437. (CLASS 12. CONSTRUCTION MATERIALS.) JOHN GOLDSTEIN, New York, N. Y. Filed Jan. 19, 1921.

PYROLITH

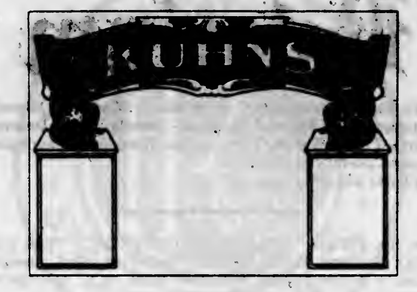
Particular description of goods.—Adhesive Cement.
Claims use since Jan. 1, 1921.

Ser. No. 142,438. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) U. S. INDUSTRIAL ALCOHOL CO., New York, N. Y. Filed Jan. 19, 1921.



No claim is made to the words "Alcohol is" or to the letters "U. S. P."
Particular description of goods.—Ethyl Alcohol.
Claims use since Jan. 5, 1921.

Ser. No. 142,442. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARRY J. KUHN, Houston, Tex. Filed Jan. 19, 1921.



Particular description of goods.—Paste and Liquid Paints and Painters' Enamels, Stains, and Fillers, and Putty.
Claims use since about Jan. 10, 1915.

Ser. No. 142,443. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) HARRY J. KUHN, Houston, Tex. Filed Jan. 19, 1921.



Particular description of goods.—Varnishes, Stains, Lacquers, Japan Driers, and Asphalt Varnish and Paint.
Claims use since about Feb. 2, 1908.

Ser. No. 142,461. (CLASS 10. FERTILIZERS.) THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y. Filed Jan. 20, 1921.

ACME

Particular description of goods.—Fertilizers.
Claims use since May, 1883.

Ser. No. 142,512. (CLASS 39. CLOTHING.) THE LITTLE DUCHESS DRESS CO., INC., New York, N. Y., assignor to Rotary Frocks, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 20, 1921.

Rotarium

Particular description of goods. — Women's, Misses', Children's, and Infants' Clothing—Namely, Suits, Dresses, Skirts, Coats, Waists, Underwaists, Brassières, Camisoles, Corset-Covers, and Bloomers.
Claims use since Nov. 25, 1920.

Ser. No. 142,513. (CLASS 39. CLOTHING.) THE LITTLE DUCHESS DRESS CO., INC., New York, N. Y., assignors to Rotary Frocks, Inc., New York, N. Y., a Corporation of New York. Filed Jan. 20, 1921.

Rotate

Particular description of goods. — Women's, Misses', Children's, and Infants' Clothing—Namely, Suits, Dresses, Skirts, Coats, Waists, Underwaists, Brassières, Camisoles, Corset-Covers, and Bloomers.
Claims use since Nov. 25, 1920.

Ser. No. 142,562. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. LASKIN & SONS, New York, N. Y. Filed Jan. 21, 1921.

J. L. & S. BEAVER INE

Particular description of goods.—Brown-Dyed Rabbit-Skins.
Claims use since Feb. 2, 1920.

Ser. No. 142,615. (CLASS 10. FERTILIZERS.) THE FISHERIES PRODUCTS CO., INC., New York, N. Y. Filed Jan. 22, 1921.

THE FISHERIES PRODUCTS CO.

Particular description of goods.—Fertilizers.
Claims use since Nov. 1, 1920.

Ser. No. 142,669. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) GEORGE H. PRIDDY, Huntington, W. Va. Filed Jan. 22, 1921.

DUCK FEATHERS

Particular description of goods.—Water-Deflecting Dressing for Windshields.
Claims use since July 14, 1920.

Ser. No. 142,782. (CLASS 5. ADHESIVES.) HARRY A. COOK, Yakima, Wash. Filed Jan. 26, 1921.

4 IN 1 CEMENT

No claim is made to the word "Cement" apart from the mark shown on the drawing.
Particular description of goods.—Adhesive Cement.
Claims use since Dec. 1, 1920.

Ser. No. 142,806. (CLASS 5. ADHESIVES.) PURL C. PLASTERER, Hamilton, Ohio, assignor to Darn E. Z. Laboratories. Filed Jan. 26, 1921.

DARN E-Z

Particular description of goods.—Patching-Cement.
Claims use since Jan. 1, 1920.

Ser. No. 142,916. (CLASS 39. CLOTHING.) BU-TI-MAID PETTICOAT & PETTIPANTS CO., New York, N. Y. Filed Jan. 29, 1921.

Bu-Ti-Maid

Particular description of goods. — Ladies' Undergarments.
Claims use since May 20, 1920.

Ser. No. 143,082. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BUTLER-DIESTELKAMP-STOCK CHEMICAL CO., St. Louis, Mo. Filed Feb. 2, 1921.

OVA-NITE

Particular description of goods.—A Salve for Boils, Bruises, Chafings, and Irritations, Burns and Scalds, Cuts, Scratches, and Wounds.
Claims use since about July 15, 1920.

Ser. No. 143,151. (CLASS 38. PRINTS AND PUBLICATIONS.) BUFFALO SOCIETY OF NATURAL SCIENCES, Buffalo, N. Y. Filed Feb. 4, 1921.

Hobbies

Particular description of goods.—A Monthly Magazine Publication.
Claims use since May 1, 1920.

Ser. No. 143,167. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HEZEL MILLING COMPANY, East St. Louis, Ill. Filed Feb. 4, 1921.

BANJO

Particular description of goods.—Self-Rising Flour.
Claims use since Apr. 13, 1915.

Ser. No. 143,504. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) LINCOLN-RAY MANUFACTURING CO., Springfield, Mass. Filed Feb. 12, 1921.

LINCOLN-RAY MFG. CO. LR SPRINGFIELD, MASS.

The words "Lincoln-Ray Mfg. Co." and "Springfield, Mass." are disclaimed apart from the mark as shown.
Particular description of goods.—Solid and Liquid Toilet Soaps, Washing-Wafers and Laundry Soaps for Cleansing and Washing Linens, Cottons, Wool Goods, Silks, and other Fabrics Having a Vegetable or Animal Thread Base; Solid Soaps and Paste and Polishes for Cleansing and Polishing Metals, Wood, Glass, Chinaware, Furniture, and Painted or Varnished Articles or Surfaces.
Claims use since Oct. 1, 1910.

Ser. No. 143,595. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. F. GIVAN, Constantine, Ky. Filed Feb. 15, 1921.

"Willow-Brook Farm"

Particular description of goods.—Poultry Food.
Claims use since 1910.

Ser. No. 143,605. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) F. C. HUYCK & SONS, Albany, N. Y. Filed Feb. 15, 1921.

KENWOOD

Outdoor Comfort PRODUCTS

Under section 9 of the act of March 19, 1920.
No claim being made to the words "Outdoor Comfort Products" apart from the mark shown in the drawing. The mark consists of the words "Kenwood Outdoor Com-

fort Products" and a panel in outline in which is a representation of a mountain ram occupying a prominent position in the foreground and woods and a portion of a mountain-range forming the background.

Particular description of goods.—Outdoor Rugs, Bed-Blankets, Camping-Blankets, Baby-Blankets, Couch-Covers, Bed-Covers, Auto-Robes, and Perambulator-Robes of Textile Fabric.

Claims use since about Feb. 1, 1919.

Ser. No. 143,698. (CLASS 21. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) MARSHALL B. EATON, Chittenango, N. Y. Filed Feb. 17, 1921.

CYCLONE

Particular description of goods.—Combination-Gas-Intake Deflectors and Gaskets for Use on Internal-Combustion Engines.

Claims use since Feb. 1, 1921.

Ser. No. 143,700. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OR-BLOS CO., Jacksonville, Fla. Filed Feb. 17, 1921.

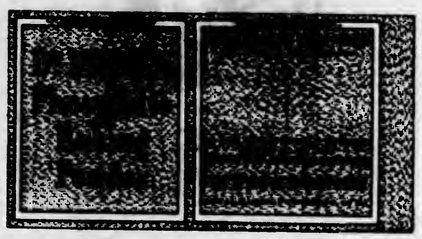
OR-BLOS



Particular description of goods.—Talcum Powder, Face-Powder, Perfume, Toilet Water.

Claims use since Dec. 28, 1920.

Ser. No. 143,708. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROYAL BAKING POWDER COMPANY, Jersey City, N. J., and New York, N. Y. Filed Feb. 17, 1921.



The lining on the drawing represents the color yellow. Aside from the words "Dr. Price's," "Price's," and "Royal Baking Powder Company" no claim is made to the exclusive use of the language appearing on the trade-mark except in so far as it may form part of the particular trade-mark.

Particular description of goods.—Baking-Powder.

Claims use since Jan. 29, 1921.

Ser. No. 143,761. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY C. JARVIS, New York, N. Y. Filed Feb. 18, 1921.

DR. JARVIS' FOR CONSTIPATION AND TORPID LIVER

No claim being made to the right to the exclusive use of the words "For Constipation and Torpid Liver" apart from the mark as shown.

Particular description of goods.—Pills Intended as a Remedy for Constipation and Torpid Liver.

Claims use since July 15, 1920.

Ser. No. 143,796. (CLASS 39. CLOTHING.) THORNTON & MAWBY LIMITED, Leicester, England. Filed Feb. 18, 1921.

JOHN BULL



No claim being made to the words "John Bull" apart from the mark shown in the drawing.

Particular description of goods.—Articles of Clothing—Namely, Blouses, Aprons, Knitted Leggings, Bodices, Pelisses, Bloomers, Garters, Outer Coats, Cloaks, Under Coats, Capes, Knickers, Jerseys, Singlets, Jackets, Dress-Shirts, Negligée Shirts, Work-Shirts, Muffs, Undershirts, Undervests, Under Union Garments, Mittens, Underdrawers, Hosiery, Petticoats, Waistcoats, Trousers, Dress-Skirts, Underskirts, Cardigan Jackets, Combination Shirt and Pants.

Claims use since Apr. 23, 1904.

Ser. No. 143,830. (CLASS 39. CLOTHING.) OPPENHEIM, OBERNDORF & CO., INC., Baltimore, Md. Filed Feb. 19, 1921.

PRESIDENT

Particular description of goods.—Men's, Women's, and Children's Drawers, Pajamas, Union-Suits, and Undershirts; Men's and Children's Night-Shirts; Men's Dress, Negligée, and Work Shirts; Women's and Children's Nightgowns, Petticoats, and Underskirts; Women's Chemise, Combination-Garments, Kimonos, Shirt-Waists, Skirts, Undervests, and Wrappers, and Children's Rompers and Bloomers.

Claims use since January, 1901.

Ser. No. 143,896. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. EARL S. SLOAN INCORPORATED, Wilmington, Del.; New York, N. Y., and St. Louis, Mo. Filed Feb. 21, 1921. Under ten-year proviso.

SLOAN'S LINIMENT



Deborah Sloan

The portrait being that of the applicant's predecessor in title.

Particular description of goods.—Liniment Used in the Treatment of Muscular Rheumatism, Lumbago, Bronchial Cough, Spasmodic Croup, Muscular Cramp, Neuralgia, Sciatica, Neuralgic Headache, Toothache, Bruises, Stiff Neck, Sprain, and Stiffness and Soreness of the Muscles After Severe Exertion or Exposure.

Claims use since June 1, 1890.

Ser. No. 143,947. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE PURITAN OIL AND SOAP COMPANY, Boston, Mass. Filed Feb. 23, 1921.



Particular description of goods.—Lubricating Oils and Greases.

Claims use since July 15, 1915.

Ser. No. 144,188. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GOODE & DUNKIE, Covington, Ky. Filed Feb. 28, 1921.

KANSAS Kream

Particular description of goods.—Wheat-Flour.

Claims use since early part of September, 1911.

Ser. No. 144,288. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EDWARD J. KUKAC, Chicago, Ill. Filed Mar. 3, 1921.

EUREKA

Particular description of goods.—Molds for Casting Battery Parts.

Claims use since June 1, 1919.

Ser. No. 144,387. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DU BOIS LABORATORIES, New York, N. Y. Filed Mar. 7, 1921.

TRADE DUHANS MARK

Consists of the word "Duhans" within a diamond. No claim is made to the exclusive use of the word "Trade-Mark."

Particular description of goods.—Urinalysis-Cabinets.

Claims use since Jan. 26, 1921.

Ser. No. 144,475. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOUTHERN VETERINARY REMEDIES COMPANY, Birmingham, Ala. Filed Mar. 8, 1921.

SOVREM

Particular description of goods.—A Medical Preparation for Black Tongue, Sore Mouth, and Distemper.

Claims use since Dec. 1, 1920.

Ser. No. 144,551. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNDERTAKERS FLUID CO., INC., Syracuse, N. Y. Filed Mar. 9, 1921.

SPHINX

Particular description of goods.—Arterial and Cavity Embalming Fluid.
Claims use since July, 1915.

Ser. No. 144,555. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) "WELDRITE" COMPANY, INCORPORATED, Long Island City, N. Y. Filed Mar. 9, 1921.

"WELDRITE"

Particular description of goods.—Welding-Torches, Cutting-Torches, and Removing-Torches, Tips, and Parts Thereof.
Claims use since June, 1914.

Ser. No. 144,568. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Mar. 10, 1921.

CRE-O-SAN

Particular description of goods.—Disinfectants.
Claims use since Sept. 1, 1920.

Ser. No. 144,589. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) READ MACHINERY CO., York, Pa. Filed Mar. 10, 1921.

Particular description of goods.—Bakers' Machinery—Namely, Cake-Mixers, Dough-Mixers, Kitchen Mixing-Machines, Automatic Proofers, Flour Handling and Sifting Machinery and Apparatus, and Dough-Rounding-Up Machines—and Speed-Changing Mixing-Machines for Hotel and Kitchen Use.
Claims use since January, 1915.

Ser. No. 144,689. (CLASS 39. CLOTHING.) FRANK H. SPENCER, Lexington, Ky. Filed Mar. 12, 1921.

"POLLY-ANNA"

Particular description of goods.—Bungalow-Aprons.
Claims use since July 1, 1920.

Ser. No. 144,690. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HENRY SWARTZ, Philadephia, Pa. Filed Mar. 12, 1921.

MASTER

Particular description of goods.—Carbureters, Which are Air-Feeding Devices in Coal-Burning Furnaces.
Claims use since Jan. 24, 1921.

Ser. No. 144,692. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) TUCKAWAY FOLDING LADDER CO., INC., New York, N. Y. Filed Mar. 12, 1921.

TUCKAWAY

No claim being made to the words "Folding Ladder" apart from the mark shown.
Particular description of goods.—Folding Ladders.
Claims use since December, 1920.

Ser. No. 144,698. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) THE GEO. WIEDEMANN COMPANY, Newport, Ky. Filed Mar. 12, 1921.

WIEDEMANN'S THREE STAR NON-BEVERAGE GRAIN ALCOHOL

No claim is made for the words "Non-Beverage Grain Alcohol" apart from the mark as shown in accompanying drawing.
Particular description of goods.—Non-Beverage Grain Alcohol.
Claims use since Jan. 2, 1920.

Ser. No. 144,707. (CLASS 10. FERTILIZERS.) THE COE-MORTIMER COMPANY, New York, N. Y. Filed Mar. 14, 1921.

FRANK COE'S

Exclusive use of the words "Increase the Yield of Every Field" is disclaimed apart from the mark shown.
Particular description of goods.—Fertilizers.
Claims use since Jan. 1, 1921.

Ser. No. 144,732. (CLASS 39. CLOTHING.) MERIT BABY WEAR COMPANY, New York, N. Y. Filed Mar. 14, 1921.

"Baby's Delight"

Particular description of goods.—Infants' Sleeping-Garments.
Claims use since Nov. 20, 1920.

Ser. No. 144,848. (CLASS 39. CLOTHING.) CINDERELLA HEEL CORPORATION, St. Louis, Mo. Filed Mar. 17, 1921.

CINDERELLA

Particular description of goods.—Metal Heels and Tread-Lifts Therefor.
Claims use since on or about Feb. 16, 1920.

Ser. No. 144,849. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS AARON COHEN, Boston, Mass. Filed Mar. 17, 1921.

Stopane

Particular description of goods.—Medicinal Tablets to Relieve Headache, Neuralgia, Migraine, Hysteria, and Asthma.
Claims use since Mar. 1, 1921.

Ser. No. 144,850. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS AARON COHEN, Boston Mass. Filed Mar. 17, 1921.

Flu-grane

Particular description of goods.—Medicinal Tablets to Relieve Cold, Grippe, Catarrh, Bronchitis, and Sore Throat.
Claims use since Mar. 1, 1921.

Ser. No. 145,016. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COSTAS GEKAS, Cleveland, Ohio. Filed Mar. 21, 1921.

Honey Balm

No claim being made to the word "Balm." The lining is merely shown to represent shading.
Particular description of goods.—A Medicine Used in the Treatment of Gonorrhea.
Claims use since Dec. 20, 1920.

Ser. No. 145,249. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Mar. 25, 1921.

W

WESTINGHOUSE ELECTRIC

Particular description of goods.—Steam-Turbines; Steam-Condensers; Auxiliary Apparatus for Condensers, Consisting of Air-Ejectors, Condensate-Pumps, Circulating-Pumps, and Air-Pumps; Stokers; Steam-Engines; Gas Engines, and Reduction-Gears.
Claims use since Feb. 15, 1921.

Ser. No. 145,308. (CLASS 39. CLOTHING.) G. H. BASS & COMPANY, Wilton, Me. Filed Mar. 28, 1921.

Woc-O-Moc

Particular description of goods.—Moccasins.
Claims use since about Dec. 31, 1920.

Ser. No. 145,324. (CLASS 39. CLOTHING.) JOHN J. DALY, Brockton, Mass. Filed Mar. 28, 1921.

"ONE"

Particular description of goods.—Leather Shoes.
Claims use since Sept. 28, 1920.

Ser. No. 145,339. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SARAH A. JOHNSON, Quincy, Mass. Filed Mar. 28, 1921.

Cornella

Particular description of goods.—A Hair-Tonic.
Claims use since Jan. 1, 1921.

Ser. No. 145,369. (CLASS 39. CLOTHING.) SAPCHIK & COMPANY, New York, N. Y. Filed Mar. 28, 1921.

PROMENADE

Particular description of goods.—Fur Coats, Fur Capes, Fur Wraps, Fur Neck-Pieces, Cloth Coats, (Either Plain or Trimmed with Fur,) Fur Muffs.
Claims use since Feb. 15, 1921.

Ser. No. 145,429. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANLEY M. BALTZLY, Massillon, Ohio. Filed Mar. 30, 1921.



Particular description of goods.—Cold-Cream.
Claims use since Mar. 1, 1915.

Ser. No. 145,686. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HIBBARD, SPENCER, BARTLETT & CO., Chicago, Ill. Filed Apr. 4, 1921.



Particular description of goods.—Cream-Separators, Shears, Trowels, Tinners' Shears, Clothes-Washers, Shoemakers' Outfits, Coffee-Mills, Carpet and Vacuum Sweepers, Grinding-Machines—Namely, Grindstones and Tool-Grinders—Axes, Hatchets, Adzes, Lawn-Mowers and Parts Thereof, Shovels, Spades, Scoops, and Spading-Forks.
Claims use since Aug. 1, 1905.

Ser. No. 145,704. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) OSCAR E. PALMER, Cleveland, Ohio. Filed Apr. 4, 1921.

A soothing and healing preparation for eruptions of the skin, such as Scald-head, Saltrheum and all

ECZEMA

Formula Written in 1875

Curo-Zema

OINTMENT

Prepared Only By

Curo-Zema Ointment Co.

Cleveland, O.

U.S.A.

All rights to registration of the language of the drawing are hereby disclaimed except the words "Curo-Zema" and "Curo-Zema Ointment Company."
Particular description of goods.—Ointment for Eruption of Skin, Such as Scald-Head, Salt-Rheum, and Eczema.
Claims use since Feb. 1, 1921.

Ser. No. 145,707. (CLASS 39. CLOTHING.) THE PITTSBURGH DRY GOODS COMPANY, Pittsburgh, Pa. Filed Apr. 4, 1921.

PLA-MATE

Stubens

Particular description of goods.—Hosiery.
Claims use since 1907.

Ser. No. 145,731. (CLASS 39. CLOTHING.) WILSON BROTHERS, Chicago, Ill. Filed Apr. 4, 1921.

Wilson Bro's

Is substantially a facsimile copy of the signature of Wilson Brothers as signed by M. H. Wilson.
Particular description of goods.—Garters, Suspenders, Belts for Personal Wear, and Armbands.
Claims use since 1900.

Ser. No. 145,732. (CLASS 39. CLOTHING.) WILSON BROTHERS, Chicago, Ill. Filed Apr. 4, 1921.

Wilson Bro's

Is substantially a facsimile copy of the signature of Wilson Brothers as signed by M. H. Wilson.
Particular description of goods.—Dress and Negligée Shirts, One and Two Piece Undergarments of Knitted and Textile Fabric for Men and Boys, Hosiery, Pajamas, and Neckties, and Gloves Formed of Leather and of Fabric.
Claims use since 1900.

Ser. No. 145,733. (CLASS 39. CLOTHING.) WILSON BROTHERS, Chicago, Ill. Filed Apr. 4, 1921.

Signature

Particular description of goods.—Garters, Belts for Personal Wear, Suspenders, and Armbands.
Claims use since about Feb. 3, 1920.

Ser. No. 145,760. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH C. WHITFIELD, Palisades Park, N. J. Filed Apr. 5, 1921.



The exclusive use of the words "Trade Mark" is disclaimed apart from the mark shown only.
Particular description of goods.—Natural Gas.
Claims use since Mar. 18, 1921.

Ser. No. 145,761. (CLASS 38. PRINTS AND PUBLICATIONS.) EDGAR WHEELAN, New York, N. Y. Filed Apr. 5, 1921.

The Inkling Kid

Particular description of goods.—A Series of Cartoons.
Claims use since December, 1919.

Ser. No. 145,773. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ENOZ CHEMICAL COMPANY, Chicago, Ill. Filed Apr. 6, 1921.

RAT FINIS

Consisting of the words "Rat Finis."
Particular description of goods.—Rodent-Poison.
Claims use since November, 1920.

Ser. No. 145,788. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) (MRS.) CORA M. LAMPING-NOLAN, Boston, Mass. Filed Apr. 6, 1921.

"Maryco Boston's Own"

Particular description of goods.—Massage and Tissue Cream.
Claims use since Apr. 1, 1919.

Ser. No. 145,812. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE AMERICAN DRUG COMPANY, Dayton, Ohio. Filed Apr. 7, 1921.



Particular description of goods.—Medicines Used as a Tonic, Stomachic, Diuretic, and Laxative in Stomach, Kidney, and Liver Ills.
Claims use since about Feb. 28, 1921.

Ser. No. 145,815. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LOUIS BODOR, New York, N. Y. Filed Apr. 7, 1921.



No claim being made to the representation of the lead-pencil and the words "Hexagon Pencil Press" appearing in the mark shown by the drawing.
Particular description of goods.—Machines for Impressing Inscription on Pencils.
Claims use since Feb. 1, 1921.

Ser. No. 145,884. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DE VILBISS MANUFACTURING CO., Toledo, Ohio. Filed Apr. 8, 1921.

AEROL

Particular description of goods.—Oils With or Without Medication and Intended for Medicinal Purposes, and Particularly for a Throat and Nose Spray.
Claims use since Mar. 23, 1921.

Ser. No. 145,889. (CLASS 5. ADHESIVES.) NELSON W. FINCH, Chicago, Ill. Filed Apr. 8, 1921.

MEGO

Particular description of goods.—Tire-Fillers.
Claims use since 1920.

Ser. No. 145,897. (CLASS 39. CLOTHING.) IDEAL LINEN MESH CO., Poughkeepsie, N. Y. Filed Apr. 8, 1921.

BEAU IDEAL

Particular description of goods.—Sweaters.
Claims use since Apr. 7, 1921.

Ser. No. 145,921. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) SHELDON AXLE & SPRING CO., Wilkes-Barre, Pa. Filed Apr. 8, 1921.



Consisting of a small projection from an exposed surface of the goods circular in outline and curved in section.
Particular description of goods.—Springs for Vehicles.
Claims use since Jan. 3, 1921.

Ser. No. 145,965. (CLASS 32. FURNITURE AND UPHOLSTERY.) HENRY SCHOMER COMPANY, Chicago, Ill. Filed Apr. 9, 1921.

Relax

Particular description of goods.—Bed-Springs.
Claims use since Nov. 15, 1920.

Ser. No. 145,966. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOMAS M. PENNY, New York, N. Y. Filed Apr. 9, 1921.

"VECO"

Particular description of goods.—Medicinal Tablets for the Treatment of Colds.
Claims use since June 1, 1920.

Ser. No. 145,995. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONSOLIDATED COMPANIES INC., Plaquemine, Morgan City, St. Martinsville, New Roads, and White Castle, La. Filed Apr. 11, 1921.



The drawing being lined to indicate the color red.
Particular description of goods.—Quinin, Epsom Salts, Castor-Oil, Cough-Syrup, Salt, Baking-Powder, and Bluing.
Claims use since 1914.

Ser. No. 146,001. (CLASS 39. CLOTHING.) THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill. Filed Apr. 11, 1921.

EISENTAN

Particular description of goods.—Leather Gloves and Mittens.
Claims use since Mar. 18, 1921.

Ser. No. 146,068. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMICAL REDUCTION CO., Boston, Mass. Filed Apr. 12, 1921.



Particular description of goods.—Chemical Carbon-Remover.
Claims use since Mar. 17, 1920.

Ser. No. 146,084. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AMELIA GLADU ROY, Nashua, N. H. Filed Apr. 12, 1921.



No claim being made to the words "Headache Capsules" apart from the mark as shown.
Particular description of goods.—A Preparation Sold in Capsules for the Treatment of Headache.
Claims use since Mar. 28, 1921.

Ser. No. 146,108. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHRISTMAN OINTMENT CO., Greenville, N. C. Filed Apr. 13, 1921.

Christman's Ointment



No claim being made to the words "Christman's Ointment" apart from the mark shown.
Particular description of goods.—Ointment for Skin Diseases.
Claims use since January, 1887.

Ser. No. 146,114. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) J. EPHRAIMSON, Bradford, England. Filed Apr. 13, 1921.



Particular description of goods.—Animal Hair or Wool for Making Wigs and other Similar Articles.
Claims use since April, 1912.

Ser. No. 146,116. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) FOAMITE FIREFOAM COMPANY, New York, N. Y. Filed Apr. 13, 1921.

FIREFLY

Particular description of goods.—Hand-Operated Portable and Stationary Fire-Extinguishers.
Claims use since Aug. 31, 1920.

Ser. No. 146,120. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB M. JACOBS, Paterson, N. J. Filed Apr. 13, 1921.

LIN-O-DINE

Particular description of goods.—A Liniment for Rheumatism, Colds, and Coughs, Bruises, Stiff Neck, Neuralgia, Toothache, Headache, and Sprains.
Claims use since Jan. 1, 1920.

Ser. No. 146,122. (CLASS 39. CLOTHING.) JUNIOR HOSIERY COMPANY, Philadelphia, Pa. Filed Apr. 13, 1921.

JUNIOR

Particular description of goods.—Hosiery.
Claims use since Apr. 1, 1921.

Ser. No. 146,167. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE DENVER ROCK DRILL MANUFACTURING COMPANY, Denver, Colo. Filed Apr. 14, 1921.

"WAUGH WAY WINS"

Particular description of goods.—Rock-Drills, Drill-Sharpeners, Drill-Bits, and Parts Thereof.
Claims use since March, 1921.

Ser. No. 146,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Apr. 14, 1921.

PAN-PEPTIC

Particular description of goods.—A Medical Compound in Liquid and Tablet Form for the Treatment of Indigestion or Dyspepsia.
Claims use since May 31, 1890.

Ser. No. 146,228. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NELSON & MCLEOD, Seattle, Wash. Filed Apr. 15, 1921.

POM-PO

Particular description of goods.—Preparation for Making Hair Lie Flat Against the Head.
Claims use since June 1, 1920.

Ser. No. 146,231. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIA A. NEAL, Oklahoma, Okla. Filed Apr. 15, 1921.

YULA'S HAIR GROWER



The picture forming a part of the trade-mark is a reproduction of a photograph of the applicant. No claim is made to the exclusive use of the words "Hair-Grower" except in association with the other features of the trade-mark shown.
Particular description of goods.—Preparations for Promoting the Growth of the Hair.
Claims use since Mar. 1, 1921.

Ser. No. 146,233. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DANIEL B. O'NEAL, Ocoee, Tenn. Filed Apr. 15, 1921.

O'Nealene

Particular description of goods.—External Medicines for the Treatment of Cancer.
Claims use since Mar. 18, 1921.

Ser. No. 146,249. (CLASS 39. CLOTHING.) JAMES A. BANISTER COMPANY, Newark, N. J. Filed Apr. 16, 1921.

Counterpoise

Particular description of goods.—Boots and Shoes Made of Rubber, Leather, Fabric, or a Combination of the Same.
Claims use since Apr. 6, 1921.

Ser. No. 146,288. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN ENGSTROM, Jr., Co., Little Valley, N. Y. Filed Apr. 18, 1921.

RAINBOW

Particular description of goods.—Razors.
Claims use since May 19, 1920.

Ser. No. 146,335. (CLASS 32. FURNITURE AND UPHOLSTERY.) CHARLES P. ROGERS & CO., INC., New York, N. Y. Filed Apr. 18, 1921.

Ritz Carlton

Particular description of goods.—Bed-Springs, Mattresses, and Pillows.
Claims use since October, 1910.

Ser. No. 146,352. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

The Ayeristocrat (OF ALL)

Particular description of goods.—Vanishing Cream.
Claims use since Apr. 1, 1915.

Ser. No. 146,355. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LULU E. MORRIS, Baltimore, Md. Filed Apr. 19, 1921.

VESPER.

Particular description of goods.—Hair-Grower, Hair-Tonic, Facial Cream, Shampoo, Tar Salve to Remove Dandruff from the Head, and Glossine, a Preparation to Render the Hair Glossy.
Claims use since Mar. 1, 1921.

Ser. No. 146,398. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SWIANTOX COMPANY, Eaton, Ohio. Filed Apr. 19, 1921.



No claim is made apart from the mark of the words "Trade Mark Registered" and "Eaton, Ohio." The line shading appearing upon the representation of the mark is not indicative of coloring, but of shading only.
Particular description of goods.—Hog Medicines for Treatment of Congested Liver, Indigestion, Constipation, Diarrhea, Cholera, Dysentery, Septicemia, Flue, and Unfavorable Results of Immunizing.
Claims use since about Mar. 1, 1921.

Ser. No. 146,401. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JAMES B. SEDBERRY, Texarkana, Ark. Filed Apr. 19, 1921.



Particular description of goods.—Agricultural and Milling Machinery Consisting of Feed-Mills, Grinding-Mills, Crushers, Pulverizers, and Shredders.
Claims use since August, 1920.

Ser. No. 146,443. (CLASS 39. CLOTHING.) LIEBERMAN MANUFACTURING CO., Philadelphia, Pa. Filed Apr. 30, 1921.



No claim is made to the words "Backed by a Bond" apart from the other features of the mark.
Particular description of goods.—Men's, Women's, and Boys' Suits and Trousers.
Claims use since about Nov. 1, 1920.

Ser. No. 146,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE MOORE COMPANY, Temperance, Mich. Filed Apr. 23, 1921.



No claim being made to the exclusive use of the words "Horehound" and "Tar" apart from the mark shown on the drawing.
Particular description of goods.—A Cough-Syrup.
Claims use since Mar. 1, 1913.

Ser. No. 146,700. (CLASS 33. GLASSWARE.) FLEX-LUME SIGN COMPANY, Buffalo, N. Y. Filed Apr. 25, 1921.

OPLEX

Particular description of goods.—Raised Glass Letters and Raised Glass Characters and Raised Glass Devices Generally for Illuminating Signs.
Claims use since August, 1912.

Ser. No. 146,701. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) FALLS CITY BUGGY TOP COMPANY, Louisville, Ky. Filed Apr. 25, 1921.

DERBY

Particular description of goods.—Automobile-Tops, Automobile-Radiator Covers, Automobile-Curtains, and Cushions.
Claims use since about Sept. 8, 1920.

Ser. No. 146,769. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Filed Apr. 26, 1921.

LITTLE RR TUGGER

Particular description of goods.—Pneumatic Motor-Hoists.
Claims use since Sept. 5, 1914.

Ser. No. 146,770. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Filed Apr. 26, 1921.

RR

Particular description of goods.—Steam-Engines, Steam-Turbines, Turbo-Compressors, Turbo-Blowers, Turbo-Exhausters, Reciprocating Compressors, Portable Air-Compressors, Gas-Compressors, Gas-Boosters, Gas-Expanders, Gasolene-Extraction Compressors, Regulating Devices for Compressors, Valves for Compressors, Air-Lift Pumps, Return-Air Pumping Systems, Vacuum-Pumps, Centrifugal Pumps, Reciprocating Pumps, Sinking-Pumps, Marine Pumps, Tire-Pumps, Steam-Condensers, Air-Receivers, Intercoolers, Aftercoolers, Air-Filters, Air-Reheaters, Pneumatic Motors, Pneumatic Hoists, Rock-Drills, Hammer-Drills, Pneumatic Drills, Rotary Drills, Submarine Drills, Pile-Drivers, Core-Drills, Coal-Punchers, Core-Breakers, Coal-Drills, Coal-Shearing Machines, Stone-Channeling Machines, Coal Cutters and Loaders, Coal-Picks, Drill-Bits, Hollow and Solid Drill-Blanks, Chisel-Blanks, Mountings for Drills, Rock-Drill Columns, Quarry-Bars, Tripods and Gadder-Frames, Lubricating Devices, Water-Spray Attachments, Drill-Throttles, Drill Manifolds and Headers, Shank and Bit Punches, Drill-Sharpeners, Blacksmith-Tools for Forming Shanks and Bits on Rock-Drill Steel, Sand-Pumps, Pneumatic Stone-Dressing Tools, Pneumatic Saws, Pneumatic Rammers, Portable Pneumatic Grinders, Mounted Grinding-Wheels, Pneumatic Hammers, Riveting-Hammers, Chipping-Hammers, Scaling-Hammers, Wood-Boring Machines, Close-Quarter Drills, Tamping-Machines, Railway-Tie Tampers, Spike-Drivers, Drift-Bolt Drivers, Plug-Drills, Calking-Machines, Rivet-Sets and Retainers Therefor, Jam-Riveters, Rivet Holders-On, Grease-Guns, Fusible Signal-Plugs, Oil-Engines, Ticket-Canceling Boxes, Component Parts of and Repair Parts for All of the Above Devices.
Claims use since October, 1908.

Ser. No. 146,843. (CLASS 39. CLOTHING.) MARCUS PAULSON, Brooklyn and New York, N. Y. Filed Apr. 27, 1921.



Lucette Maid

Particular description of goods.—Ladies' Silk and Muslin Underwear in One, Two, and Three Piece Garments.
Claims use since Mar. 14, 1921.

Ser. No. 146,875. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) COINGUM MANUFACTURING COMPANY, Philadelphia, Pa. Filed Apr. 28, 1921.

"ALUMINOID"

Particular description of goods.—Vending-Machines.
Claims use since February, 1920.

Ser. No. 146,951. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX BASS, New York, N. Y. Filed Apr. 29, 1921.

Dandruffend

Particular description of goods.—A Dandruff-Ointment.
Claims use since April, 1921.

Ser. No. 147,095. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DETROIT TWIST DRILL COMPANY, Detroit, Mich. Filed May 2, 1921. Under ten-year proviso.

DETROIT

Particular description of goods.—Twist-Drills.
Claims use since 1894.

Ser. No. 147,111. (CLASS 39. CLOTHING.) WILLARD A. KIMBALL, New York, N. Y. Filed May 2, 1921.

WEARPLUS

Particular description of goods.—Men's and Boys' Clothing—Namely, Suits, Trousers, and Overcoats.
Claims use since March, 1921.

Ser. No. 147,186. (CLASS 39. CLOTHING.) BROHMAN COMPANY, New York, N. Y. Filed May 4, 1921.

Pidgie PANTIE FROCK

No claim being made to the word "Frock" apart from the mark shown in the drawing.
Particular description of goods.—Children's Dresses.
Claims use since Apr. 28, 1921.

Ser. No. 147,190. (CLASS 4.) ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOSEPH GUTRADT COMPANY, San Francisco, Calif. Filed May 4, 1921.



Particular description of goods.—Soap.
Claims use since Apr. 1, 1920.

Ser. No. 147,308. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) QUEEN INCUBATOR COMPANY, Lincoln, Nebr. Filed May 6, 1921.

Queen

Particular description of goods.—Chicken Incubators, Brooders, and Galvanized Hovers.
Claims use since 1901.

Ser. No. 147,321. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD R. SPENCER, New York, N. Y. Filed May 6, 1921.

QUICKO

Consisting of the word "Quicko."
Particular description of goods.—A Chemical for Removing Dirt and Stains.
Claims use since Apr. 20, 1921.

Ser. No. 147,328. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ZIP PRODUCTS COMPANY, Fremont, Ohio. Filed May 6, 1921.

"ZIP"

Particular description of goods.—Cleaning and Polishing Fluid.
Claims use since Dec. 30, 1920.

Ser. No. 147,344. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GLOBE DRUG COMPANY, Florence, S. C. Filed May 7, 1921.

RELYON

Particular description of goods.—Medicines for the Treatment of Indigestion, Dyspepsia, Rheumatism, Neuralgia, Lumbago, Colds, Croup, Coughs, Malaria, Chills and Fever, Bilious Fever, Intermittent and Remittent Fevers, Diarrhea, Dysentery, and Irritated and Congested Conditions of the Bronchial Mucous Membranes; Tonics, and Oils for the Treatment of Burns, Cuts, Sores, Ulcers, Hemorrhoids, and Inflammation of the Skin.
Claims use since Apr. 4, 1921.

Ser. No. 147,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALPHONSE GRAVIER, Neuilly-sur-Seine, France. Filed May 7, 1921.

ME VOICI

Particular description of goods.—Perfumes, Toilet Waters, Lotions, Brilliantine, Face-Cream, and Eau-de-Cologne.
Claims use since Aug. 1, 1914.

Ser. No. 147,346. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALPHONSE GRAVIER, Neuilly-sur-Seine, France. Filed May 7, 1921.

PLUIE D'OR

Particular description of goods.—Perfumes, Toilet Waters, Lotions, Brilliantine, Face-Cream, and Eau-de-Cologne.
Claims use since Aug. 25, 1906.

Ser. No. 147,388. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH F. ALLISON, Washington, D. C. Filed May 9, 1921.

ALASCO

Particular description of goods.—Cough Medicines.
Claims use since Sept. 1, 1920.

Ser. No. 147,414. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUISEPPINA COCCIOLA, North Revere, Mass. Filed May 9, 1921.

ZATCA

Particular description of goods.—Herb Tonic for Stomach and Kidney Ailments.
Claims use since Nov. 15, 1920.

Ser. No. 147,493. (CLASS 10. FERTILIZERS.) THE MICHIGAN HUMUS & CHEMICAL COMPANY, Chassell and Klingville, Mich. Filed May 4, 1921.

Humasoil

Particular description of goods.—Fertilizers.
Claims use since Apr. 1, 1921.

Ser. No. 147,527. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed May 10, 1921.

IVOR-AMBRE

Particular description of goods.—Hand-Mirrors and Picture-Frames.
Claims use since Jan. 1, 1921.

Ser. No. 147,563. (CLASS 38. PRINTS AND PUBLICATIONS.) NEWS SYNDICATE CO., INC., New York, N. Y. Filed May 11, 1921.

SUNDAY NEWS

The subtitle—to wit, "New York's Picture News Paper"—appearing on the drawing submitted herewith being descriptive, and consequently incapable of registration, is hereby disclaimed.
Particular description of goods.—Newspapers Published in the City of New York.
Claims use since May 1, 1921.

Ser. No. 147,713. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DISPATCH PUBLISHING COMPANY, Pittsburgh, Pa. Filed May 14, 1921.

THE TOWN TATTLER
By DAVID J. DAVIES

Particular description of goods.—A Newspaper-Section.
Claims use since Sept. 13, 1920.

Ser. No. 147,714. (CLASS 38. PRINTS AND PUBLICATIONS.) THE DISPATCH PUBLISHING COMPANY, Pittsburgh, Pa. Filed May 14, 1921.

WHERE WE STAND
By THE WANDERER

Particular description of goods.—A Newspaper-Section.
Claims use since Feb. 24, 1919.

Ser. No. 147,795. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ESCHENBURG EMBROIDERY COMPANY, Inc., Chicago, Ill. Filed May 16, 1921.



The trade-mark is a picture of Madeline Rechsteiner.
Particular description of goods.—Embroideries or Embroidered Articles—Namely, Bed Sets, Dresser-Scarfs, Curtains, Pillow-Cases, Table-Covers, Fabric Towels, and Embroidered Piece Goods Used for Making Such Articles.
Claims use since Mar. 1, 1921.

Ser. No. 148,060. (CLASS 38. PRINTS AND PUBLICATIONS.) A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa. Filed May 28, 1921.

The HUMAN SIDE

Particular description of goods.—Publications Issued Monthly.
Claims use since Mar. 26, 1921.

Ser. No. 148,064. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM TYLER GREEN, Summit, N. J. Filed May 23, 1921.

Yeasto

Particular description of goods.—A Beauty-Cream.
Claims use since Feb. 10, 1921.

Ser. No. 148,117. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) JOSEPH W. BEAVAN, Syracuse, N. Y. Filed May 24, 1921.



Particular description of goods.—Perfumes, Toilet Waters, Creams, Face-Powders, Talcum Powders, Sachet-Powders, and Rouges.
Claims use since Apr. 1, 1921.

Ser. No. 148,125. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CHESNUTT, COOPER & CO., London, England. Filed May 24, 1921.



The English translation of the Chinese words appearing on the drawing being "Palm" and "Tree."
Particular description of goods.—Bristles.
Claims use since September, 1919.

Ser. No. 148,138. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RI-MAY CO., Richmond Hill, N. Y. Filed May 24, 1921.

DUZZIT

Particular description of goods.—Insect-Powders.
Claims use since May 3, 1921.

Ser. No. 148,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDEPENDEN CANNING CO., Chicago, Ill. Filed May 24, 1921.

SILVER LAKE



Particular description of goods.—Canned Vegetables.
Claims use since Dec. 21, 1911.

Ser. No. 148,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. A. MURDOCK MFG. CO., Kansas City, Mo. Filed May 24, 1921.

Opt.

Particular description of goods.—Coffee, Spices, Mustard, Fruit Flavoring Extracts—Namely, Lemon.
Claims use since 1898.

Ser. No. 148,164. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PREMIER MALT PRODUCTS CO. OF OHIO, INC., Steubenville, Ohio. Filed May 24, 1921.

PREMEX

Particular description of goods.—Malt Syrup Used for Food Purposes.
Claims use since Apr. 25, 1921.

Ser. No. 148,188. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) YORK DRUG STORE, York, S. C. Filed May 24, 1921.

PINKSULES

Particular description of goods.—A Preparation for the Treatment of Headache, Neuralgia, Cold, La Grippe, Flu, and Rheumatism.
Claims use since Oct. 1, 1918.

Ser. No. 148,229. (CLASS 12. CONSTRUCTION MATERIALS.) KING REFRACTORIES CORPORATION, Buffalo, N. Y. Filed May 25, 1921.

MONO

Particular description of goods.—Hydraulic and High-Temperature Cement.
Claims use since May 9, 1921.

Ser. No. 148,239. (CLASS 38. PRINTS AND PUBLICATIONS.) PHILIDELPHIA OPERATIVE BUILDERS ASSOCIATION, Philadelphia, Pa. Filed May 25, 1921.

PHILADELPHIA HOME BUILDER

Particular description of goods.—A Monthly Periodical.
Claims use since December, 1920.

Ser. No. 148,329. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HARRM CANDY CO., New York, N. Y. Filed May 27, 1921.



No claim being made to the word "Candy."
Particular description of goods.—Candy in Boxes.
Claims use since May 9, 1921.

Ser. No. 148,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) V. VIVAUDOU, INC., New York, N. Y. Filed May 27, 1921.

Boudoir Patties

Particular description of goods.—Rouge and Face-Powder in Compact Form.
Claims use since May 19, 1921.

Ser. No. 148,358. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) YOUNG & GRIFFIN COFFEE CO. INC., New York, N. Y. Filed May 27, 1921.

BULL'S EYE

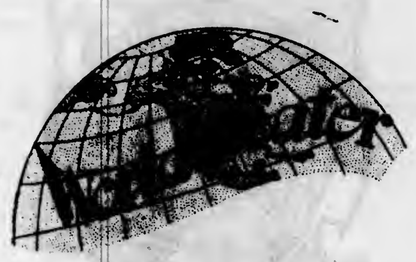
Particular description of goods.—Roasted Coffee.
Claims use since 1906.

Ser. No. 148,433. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CAROLINA REMEDIES COMPANY, Union, S. C. Filed May 31, 1921.

CARO VET

Particular description of goods.—Veterinary Preparations—a General Swine Tonic, Medicines for Various Forms of Colic of Horses and Mules, a Medicinal Hemostat to Stop Bleeding or to Check Hemorrhage in Bleeding Cuts or Wounds, a General Liniment for All Live Stock, a General Disinfectant; an Antiseptic Dusting-Powder Applied to Sores, Cuts, and Wounds; a Vermifuge to Eradicate Intestinal Worms in Horses and Mules; an Antiseptic Ointment or Salve for Sores, Cuts, or Wounds; a Mange Treatment for Mange and other Skin Diseases of Live Stock, Also for Loss of Hair and Scalp Diseases of the Human Head; a General Tonic for Horses, Mules, and Cattle; a General Swine Laxative and Purgative, a Medicinal Treatment for Cattle Bloat or Tympanites of Cattle; a General Medicinal Treatment for Scours, Diarrhea, or Dysentery of Pigs; a General Medicinal Treatment for Influenza, Distemper, Colds, and Shipping-Fever in Horses and Mules; a Lotion for All Live Stock in Treatment of Bruises, Stiffness, or Soreness from Work and Hot Painful Swellings; a General Purgative Powder for Horses, Mules, and Cattle; a General Condition-Powder for Horses, Mules, and Cattle; a General Condition-Powder for Swine.
Claims use since Apr. 15, 1921.

Ser. No. 148,513. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CLIFFORD SHATTUCK, Detroit, Mich. Filed June 1, 1921.



The lining shown on the drawing is merely for shading.
Particular description of goods.—Valve-Grinding Compound.
Claims use since May 10, 1921.

Ser. No. 148,550. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) A. E. PERKINS, Jr., Baltimore, Md. Filed June 2, 1921.

Nut Lovet

No claim being made to the words "Black Walnut Kisses" apart from the mark shown on the drawing.
Particular description of goods.—Candy.
Claims use since January, 1905.

Ser. No. 148,581. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATE TRUFFLES CO. INC., Portland, Oreg. Filed June 3, 1921.

Truffle

Particular description of goods.—Candy.
Claims use since June, 1919.

Ser. No. 148,625. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SEBRING CITRUS GROWERS ASSOCIATION, Sebring, Fla. Filed June 3, 1921.

Sebring Sweets

Particular description of goods.—Fresh Citrus Fruits.
Claims use since Jan. 10, 1920.

Ser. No. 148,659. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BERNARD KAY, New York, N. Y. Filed June 4, 1921.

NOVOLET

Particular description of goods.—Imitation-Leather Material.
Claims use since Apr. 29, 1921.

Ser. No. 148,672. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HENRY T. FRANCE, Kalamazoo, Mich. Filed June 4, 1921.

"U-C"

Particular description of goods.—A Glass Cleansing and Polishing Liquid.
Claims use since May 1, 1920.

Ser. No. 148,696. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SAM BRETCH WHOLESALE SPECIALTIES, Oklahoma, Okla. Filed June 6, 1921.

SATISFACTION

Particular description of goods.—Rubber Inner Tubes for Automobile Tires.
Claims use since Mar. 7, 1921.

Ser. No. 148,740. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MEAD JOHNSON & CO., Evansville, Ind. Filed June 6, 1921.



Particular description of goods.—A Preparation of the Casein or Protein of Milk Used to Increase the Protein of Various Diets.
Claims use since June 1, 1920.

Ser. No. 148,790. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWARD D. BRADSHAW, New York, N. Y. Filed June 7, 1921.

I·X·L

Particular description of goods.—Popping Corn.
Claims use since 1909.

Ser. No. 148,794. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE CUDAHY PACKING COMPANY, Chicago, Ill. Filed June 7, 1921.

Solvene

The representation of an arrow being produced in red.
Particular description of goods.—Shredded Soap.
Claims use since May 26, 1921.

Ser. No. 148,958. (CLASS 10. FERTILIZERS.) U. S. INDUSTRIAL CHEMICAL CO., Baltimore, Md. Filed June 10, 1921.

HUMICO

Particular description of goods.—Fertilizers.
Claims use since Apr. 7, 1921.

Ser. No. 149,079. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WILLIAM M. GIBBS, Duluth, Minn. Filed June 13, 1921.

WHITE SUPREME
Gibb's King of All
POLISH

Applicant hereby disclaims the words "White" and "Polish" apart from the mark shown.
Particular description of goods.—Shoe-Polish.
Claims use since May, 1921.

Ser. No. 149,126. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITY MILLS COMPANY, Columbus, Ga. Filed June 14, 1921.



The drawing is lined to indicate the colors red, blue, and yellow.
Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since May 26, 1921.

Ser. No. 149,132. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES A. HERINK, New York, N. Y. Filed June 14, 1921.

HAYTONA

Particular description of goods.—Coffee.
Claims use since May 30, 1921.

Ser. No. 149,233. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) HERMAN KRAUSS, Toledo, Ohio. Filed June 16, 1921.

E-Z
H M S

Particular description of goods.—Malt Extracts.
Claims use since May 13, 1921.

Ser. No. 149,302. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRI-STATE ICE CREAM CORPORATION, La Crosse, Wis. Filed June 17, 1921.

Tri-State

Particular description of goods.—Ice-Cream.
Claims use since February, 1920.

Ser. No. 149,308. (CLASS 38. PRINTS AND PUBLICATIONS.) UNITED PUBLISHING COMPANY, Kansas City, Mo. Filed June 17, 1921.

RURAL MECHANICS

Particular description of goods.—Monthly Magazine.
Claims use since June 1, 1921.

Ser. No. 149,523. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) OHIO VALLEY BOTTLING WORKS, Cincinnati, Ohio. Filed June 22, 1921.

GREEN VALLEY

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks.
Claims use since June 8, 1921.

Ser. No. 149,673. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY B. BISCHOFF, Collinsville, Ill. Filed June 27, 1921.

SYN-PAR

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrup for Making the Same.
Claims use since July, 1908.

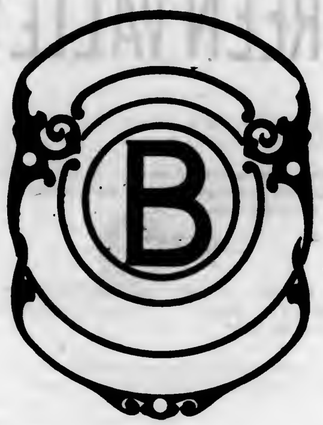
Ser. No. 149,897. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed July 1, 1921.

PINNACLE

Particular description of goods.—Hose, Dredging-Sleeves, and Machinery Packing, All Made of Rubber Combined with Fabric.

Claims use on hose and dredging-sleeves since about 1912, and on machinery packing since about 1918.

Ser. No. 149,997. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE G. S. BLODGETT COMPANY, INC., Burlington, Vt. Filed July 5, 1921.



Particular description of goods.—Bake-Ovens.
Claims use since 1900.

Ser. No. 149,998. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE G. S. BLODGETT COMPANY, INC., Burlington, Vt. Filed July 5, 1921. Under ten-year proviso.

THE G. S. BLODGETT CO.

Particular description of goods.—Bake-Ovens.
Claims use since 1850.

Ser. No. 150,195. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ARIEL CLYDE JEWELL, Chicago, Ill. Filed July 9, 1921.



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Nov. 25, 1914.

Ser. No. 150,466. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE CO., Portland, Oreg. Filed July 16, 1921.

"BRONCHO BRAND" RED THREAD

Consisting of the words "'Broncho Brand' Red Thread," no claim being made to the exclusive use of the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Lariat-Rope.
Claims use since November, 1908.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 23, 1921.

145,926. EGGS. CARL AHLERS, New York, N. Y.
Filed October 14, 1920. Serial No. 138,274. PUBLISHED MAY 10, 1921.

145,927. HAIR-RESTORER. RUDOLPH JOHN ARATA, Los Angeles, Calif.
Filed February 24, 1920. Serial No. 128,813. PUBLISHED MAY 10, 1921.

145,928. A MEDICINAL PREPARATION FOR CERTAIN NAMED PURPOSES. BELLINGHAM CHEMICAL CO., Bellingham, Wash.
Filed October 12, 1920. Serial No. 138,204. PUBLISHED MAY 10, 1921.

145,929. FACE CREAM OR OINTMENT. DR. C. H. BERRY CHEMICAL CO., Chicago, Ill.
Filed November 3, 1920. Serial No. 139,106. PUBLISHED APRIL 12, 1921.

145,930. MEDICINE FOR DEAFNESS. VICTORIA A. BIOLECK, Colorado Springs, Colo.
Filed November 18, 1920. Serial No. 139,783. PUBLISHED APRIL 26, 1921.

145,931. HOME MEDICINES FOR DISEASES OF THE KIDNEYS AND BLADDER. BORRICKE & RUNYON CO., San Francisco and Oakland, Calif.
Filed September 24, 1920. Serial No. 137,563. PUBLISHED MAY 10, 1921.

145,932. INSECTICIDE, DISINFECTANT, AND DEODORIZER. BONO PRODUCTS CORPORATION, New York, N. Y.
Filed November 10, 1920. Serial No. 139,449. PUBLISHED MAY 3, 1921.

145,933. CONFECTIONERY—NAMELY, CHOCOLATES. BOSTON CONFECTIONERY COMPANY, Cambridge, Mass.
Filed January 15, 1921. Serial No. 142,281. PUBLISHED MAY 17, 1921.

145,934. EXTERNALLY-APPLIED COMPOUND FOR THE REMEDY OF HEADACHES. ALFRED A. BURNHAM, Boston, Mass.
Filed November 2, 1920. Serial No. 139,072. PUBLISHED APRIL 12, 1921.

145,935. OLEOMARGARIN, NUT-BUTTERS, LARD, EDIBLE OILS, AND FATS, BREAD DOUGH, CANDY, AND PASTRY SHORTENING. CADMUS PRODUCTS COMPANY, Bayonne, N. J.
Filed September 11, 1920. Serial No. 137,066. PUBLISHED MAY 10, 1921.

145,936. A DETERGENT. THE CHEMICAL UTILITIES COMPANY, Cincinnati, Ohio.
Filed December 24, 1920. Serial No. 141,480. PUBLISHED MAY 17, 1921.

145,937. CANDY. CURTISS CANDY CO., Chicago, Ill.
Filed December 5, 1919. Serial No. 125,602. PUBLISHED MAY 10, 1921.

145,938. CANDY. CURTISS CANDY CO., Chicago, Ill.
Filed December 5, 1919. Serial No. 125,599. PUBLISHED MAY 10, 1921.

145,939. A DENTIFRICE. JOHN N. COLE, San Francisco, Calif.
Filed December 11, 1920. Serial No. 140,914. PUBLISHED MAY 3, 1921.

145,940. CANDIES. G. G. CORNWELL & SON, Washington, D. C.
Filed December 10, 1920. Serial No. 140,863. PUBLISHED MAY 17, 1921.

145,941. GENERAL MEDICINAL TONIC. THE CYCO MEDICINE CO., Chicago, Ill.
Filed November 9, 1920. Serial No. 139,3[illegible]. PUBLISHED APRIL 12, 1921.

145,942. A CERTAIN NAMED MEDICINAL PREPARATION. THE CUR-ZON COMPANY, Los Angeles, Calif.
Filed December 21, 1920. Serial No. 141,359. PUBLISHED MAY 17, 1921.

145,943. FRESH PEARS. JOHN AUGUST DE BACK, San Francisco, Calif.
Filed December 21, 1920. Serial No. 141,362. PUBLISHED MAY 17, 1921.

145,944. A POLISHING MATERIAL—NAMELY, AN AUTO-POLISH. DE-LITE MANUFACTURING COMPANY, Boston, Mass.
Filed June 16, 1920. Serial No. 133,766. PUBLISHED MAY 10, 1921.

145,945. PREPARATION FOR TREATMENT OF BRUISES, BURNS, SCALDS, CUTS, AND INFLAMMATION. E. C. DEWITT CO. INC., Chicago, Ill., and New York, N. Y.
Filed December 11, 1920. Serial No. 140,930. PUBLISHED MAY 3, 1921.

145,946. A CERTAIN NAMED MEDICINAL PREPARATION. ALOYSIUS J. DOHERTY, Chicago, Ill.
Filed December 10, 1920. Serial No. 140,878. PUBLISHED MAY 3, 1921.

145,947. RIBBONS, LACES, TULLES, AND WOVEN FABRICS IN THE PIECE. DOLLFUS MIEG & CIE., SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,782. PUBLISHED MAY 17, 1921.

145,948. RIBBONS, LACES, TULLES, AND WOVEN FABRICS IN THE PIECE. DOLLFUS MIEG & CIE., SOCIETE ANONYME, Mulhouse, France.
Filed December 8, 1920. Serial No. 140,787. PUBLISHED MAY 17, 1921.

145,949. ANTISEPTIC MOUTH-WASHES PARTICULARLY ADAPTED AS A REMEDY FOR PYORRHEA. ALICE G. H. DUDEN, Indianapolis, Ind.
Filed February 2, 1917. Serial No. 101,121. PUBLISHED FEBRUARY 10, 1920.

145,950. CERTAIN NAMED TOILET PREPARATIONS. THE EMDEE COMPANY, New York, N. Y.
Filed November 11, 1920. Serial No. 139,517. PUBLISHED MAY 3, 1921.

145,951. A LIQUID POLISH OR DRESSING FOR FURNITURE, FLOORS, AND AUTOMOBILES. JEANETTE M. ENSIGN, Chicago, Ill.
Filed December 12, 1919. Serial No. 125,880. PUBLISHED JUNE 8, 1920.

145,952. A MEDICINE TO BE USED AS A UTERINE SEDATIVE. FANNIE FRAZIER, Chicago, Ill.
Filed September 22, 1920. Serial No. 137,460. PUBLISHED MAY 10, 1921.

145,953. CERTAIN NAMED TOILET, MEDICINAL AND CHEMICAL PREPARATIONS. ADOLPH NELSON GAEBLER, St. Louis, Mo.
Filed December 7, 1920. Serial No. 140,715. PUBLISHED MAY 3, 1921.

145,954. A LAXATIVE TABLET. THE GLANDEX COMPANY, INC., New York, N. Y.
Filed November 26, 1920. Serial No. 140,174. PUBLISHED MAY 10, 1921.

145,955. POMADES FOR THE HAIR. MAX GOLDSTEIN, Los Angeles, Calif.
Filed November 11, 1920. Serial No. 139,522. PUBLISHED APRIL 12, 1921.

145,956. DAIRY PRODUCTS—NAMELY, MILK. GREAT FALLS DAIRY PRODUCTS COMPANY, Great Falls, Mont.
Filed March 1, 1920. Serial No. 129,057. PUBLISHED MAY 10, 1921.

145,957. WHEAT-FLOUR, GRAHAM FLOUR, WHOLE-WHEAT FLOUR, WHITE CORNMEAL, YELLOW CORNMEAL, HEALTH-BRAN. GREAT WESTERN MILLING COMPANY, Los Angeles, Calif.
Filed August 9, 1920. Serial No. 135,923. PUBLISHED MAY 10, 1921.

145,958. POULTRY COMPOUND FOR CHOLERA, ROUP, AND SORE HEAD. J. S. GRIFFITH, Chattanooga, Tenn.
Filed February 27, 1920. Serial No. 128,961. PUBLISHED MAY 10, 1921.

145,959. CANNED SARDINES, SALAD-OIL, OLIVE-OIL, CANNED AND DRIED FRUITS. HAMMER & Co., San Francisco, Calif.
Filed June 24, 1919. Serial No. 119,888. PUBLISHED MAY 10, 1921.

145,960. A COMPOUND SOLUTION FOR CERTAIN NAMED PURPOSES. ALBERT A. HARPER, St. Louis, Mo.
Filed March 13, 1920. Serial No. 129,632. PUBLISHED APRIL 5, 1921.

145,961. CERTAIN NAMED MEDICINAL PREPARATIONS. GEORGE HARRIS, Calgary, Alberta, Canada.
Filed November 20, 1920. Serial No. 139,887. PUBLISHED APRIL 26, 1921.

145,962. WITCH-HAZEL CREAM. THE E. E. HESS COMPANY, Brook, Ind.
Filed November 1, 1920. Serial No. 139,038. PUBLISHED APRIL 12, 1921.

145,963. PREPARATION FOR THE LOCAL TREATMENT OF PILES. HINDU CHEMICAL CO., Houston, Tex.
Filed November 5, 1920. Serial No. 139,208. PUBLISHED APRIL 12, 1921.

145,964. EGGS, BUTTER, AND LIVE AND DRESSED POULTRY. GEORGE F. HINRICHS, INCORPORATED, New York, N. Y.
Filed September 13, 1920. Serial No. 137,124. PUBLISHED MAY 10, 1921.

145,965. WORSTED AND WOOLEN TEXTILE FABRICS IN THE PIECE. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed February 17, 1920. Serial No. 128,505. PUBLISHED MAY 10, 1921.

145,966. A MEDICAL PREPARATION FOR THE TREATMENT OF COLDS, INFLUENZA, BRONCHITIS, NEURALGIA, AND RHEUMATISM. AUSTIN J. HOLLIDAY, Washington, D. C.
Filed December 9, 1920. Serial No. 140,838. PUBLISHED MAY 3, 1921.

145,967. BOTTLED MAGNESIA. CATHARINE H. HUSBAND, Philadelphia, Pa.
Filed October 15, 1920. Serial No. 138,318. PUBLISHED MAY 10, 1921.

145,968. A CHEMICAL COMPOSITION FOR PRODUCING COLORED FIRE. EDWIN A. JACKSON & BRO., INCORPORATED, New York, N. Y.
Filed November 9, 1920. Serial No. 139,399. PUBLISHED MAY 3, 1921.

145,969. WHEAT-FLOUR. EAGLE ROLLER MILL CO., New Ulm, Minn.
Filed February 24, 1920. Serial No. 128,767. PUBLISHED MAY 10, 1921.

145,970. A PREPARATION FOR APPLICATION TO MOLDS TO FACILITATE SEPARATION OF THE MOLD AND CAST. JOHN B. JONES, Atlantic City, N. J.
Filed January 20, 1921. Serial No. 142,498. PUBLISHED MAY 17, 1921.

145,971. CUFF-BUTTONS AND CUFF-LINKS. SAMUEL B. KAHN, Chicago, Ill.
Filed December 9, 1920. Serial No. 140,840. PUBLISHED MARCH 29, 1921.

145,972. LAXATIVE TABLETS. JOHN M. KAPPUS, Cleveland, Ohio.
Filed October 11, 1920. Serial No. 138,170. PUBLISHED APRIL 26, 1921.

145,973. HAIR-TONIC. JOHN B. KORI, Jacksonville, Fla.
Filed May 13, 1920. Serial No. 132,395. PUBLISHED OCTOBER 5, 1920.

145,974. HAIR-TONIC. JOSEPH LEGGIERE, Mount Vernon, N. Y.
Filed November 12, 1920. Serial No. 139,584. PUBLISHED APRIL 12, 1921.

145,975. FOODS FOR INFANTS, INVALIDS, AND CONVALESCENTS. THE LENITONE LABORATORIES COMPANY, Cleveland, Ohio.
Filed October 14, 1920. Serial No. 138,290. PUBLISHED MAY 10, 1921.

145,976. REMEDY FOR HEADACHE, COLDS, AND RHEUMATISM. LIBERTY PRODUCTS COMPANY, INC., New York, N. Y.
Filed November 9, 1920. Serial No. 139,404. PUBLISHED APRIL 12, 1921.

145,977. REMEDY FOR HEADACHE, COLDS, AND RHEUMATISM. LIBERTY PRODUCTS COMPANY, INC., New York, N. Y.
Filed November 9, 1920. Serial No. 139,405. PUBLISHED APRIL 12, 1921.

145,978. FUNGICIDES, INSECTICIDES, AND WEED-DESTROYERS. JACOB G. LIPMAN, New Brunswick, N. J.
Filed November 11, 1920. Serial No. 139,539. PUBLISHED APRIL 12, 1921.

145,979. TANNING MATERIALS PRODUCED FROM BASIS DERIVED FROM COAL-TAR. HAROLD M. MCARTHUR & CO. LIMITED, Liverpool, England.
Filed July 2, 1920. Serial No. 134,516. PUBLISHED MAY 10, 1921.

145,980. POLISHING MATERIAL FOR AUTOMOBILE-BODIES, FURNITURE, AND PIANOS. MICHAEL A. MALLON, Nashville, Tenn.
Filed September 9, 1919. Serial No. 122,490. PUBLISHED MAY 10, 1921.

145,981. A CREAM TO BE APPLIED TO THE SKIN FOR REMOVING FRECKLES AND SPOTS. FRANCISCO TORRES MARTINEZ, Juana Diaz, Porto Rico.
Filed December 10, 1920. Serial No. 140,896. PUBLISHED MAY 3, 1921.

145,982. A LIQUID PREPARATION FOR SMOOTHING AND DRESSING THE HAIR AND ALSO BENEFICIAL AS A SCALP-TONIC. JOSEPH MAURO, Rochester, N. Y.
Filed September 25, 1920. Serial No. 137,622. PUBLISHED MAY 10, 1921.

145,983. COW FEED. JULIUS E. MUGGE, San Antonio, Tex.
Filed January 30, 1920. Serial No. 127,766. PUBLISHED MAY 10, 1921.

145,984. A CERTAIN NAMED MEDICINAL PREPARATION. THE NA-HOM LABORATORY, Poughkeepsie, N. Y.
Filed November 17, 1920. Serial No. 139,749. PUBLISHED APRIL 26, 1921.

145,985. DYESTUFFS, INTERMEDIATES, AND CERTIFIED FOOD-COLORS. NATIONAL ANILINE & CHEMICAL COMPANY, INCORPORATED, New York, N. Y.
Filed December 1, 1920. Serial No. 140,502. PUBLISHED MAY 10, 1921.

145,986. HAIR-DRESSING PREPARATIONS. T. Noo[illegible] & SONS COMPANY, Boston, Mass.
Filed November 27, 1920. Serial No. 140,345. PUBLISHED MAY 10, 1921.

145,987. CREAMS, ICE-CREAMS, AND FROZEN DESSERTS. NUCOA BUTTER COMPANY, New York, N. Y.
Filed March 20, 1920. Serial No. 129,985. PUBLISHED MAY 10, 1921.

145,988. SYRUPS AND MOLASSES FOR FOOD PURPOSES; GLUCOSE, HONEY, AND INVERT SUGAR. THE NULOMOLINE COMPANY, New York, N. Y.
Filed November 6, 1920. Serial No. 139,206. PUBLISHED MAY 10, 1921.

145,989. A CERTAIN NAMED MEDICINAL PREPARATION. "P A C" LABORATORIES, Sioux City, Iowa.
Filed December 10, 1920. Serial No. 140,899. PUBLISHED MAY 3, 1921.

145,990. TOILET PREPARATIONS—VIZ., FACE-POWDER. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,143. PUBLISHED MAY 10, 1921.

145,991. A PHARMACEUTICAL PREPARATION FOR RELIEVING AFFECTIONS OF THE THROAT. CAMILLE PEPIN, Paris, France.
Filed June 26, 1920. Serial No. 134,269. PUBLISHED MAY 10, 1921.

145,992. THERMOMETERS. PHILBRIN THERMOMETER CO., New York, N. Y.
Filed August 17, 1920. Serial No. 136,203. PUBLISHED MAY 3, 1921.

145,993. WHEAT-FLOUR. PIEDMONT MILLS, INC., Lynchburg, Va.
Filed July 26, 1920. Serial No. 135,433. PUBLISHED MAY 10, 1921.

145,994. A PREPARATION FOR THE HAIR AND SCALP. WILLIAM F. MARSHALL, Marion, Ind.
Filed June 28, 1920. Serial No. 134,319. PUBLISHED MAY 10, 1921.

145,995. A WATERPROOFING COMPOSITION FOR FABRICS OF ALL KINDS. WILLIAM B. PRICE, Poughkeepsie, N. Y.
Filed December 1, 1920. Serial No. 140,503. PUBLISHED MAY 10, 1921.

145,996. BEAUTY-CREAM. KATHLEEN MARY QUINLAN, New York, N. Y.
Filed November 10, 1920. Serial No. 139,461. PUBLISHED APRIL 12, 1921.

145,997. CERTAIN NAMED TOILET PREPARATIONS. KATHLEEN MARY QUINLAN, New York, N. Y.
Filed November 10, 1920. Serial No. 139,462. PUBLISHED MAY 3, 1921.

145,998. FOOT-POWDER. Dr. THEODORE SCHONDAU, El Paso, Tex.
Filed November 1, 1920. Serial No. 139,056. PUBLISHED MAY 3, 1921.

145,999. PREPARATION FOR SCALP DISEASES. CLOMA HASTINGS SCOTT, Omaha, Nebr.
Filed November 1, 1920. Serial No. 139,057. PUBLISHED APRIL 12, 1921.

146,000. CERTAIN NAMED PIECE GOODS FOR WEARING-APPAREL, UPHOLSTERY, AND GENERAL MECHANICAL PURPOSES. SEAMANS & COBB COMPANY, Augusta, Me., and Boston, Mass.
Filed September 10, 1920. Serial No. 137,043. PUBLISHED MAY 17, 1921.

146,001. A CERTAIN NAMED CHEMICAL PREPARATION. SHAUB & HOWETT, Lancaster, Pa.
Filed January 12, 1921. Serial No. 142,110. PUBLISHED MAY 17, 1921.

146,002. SELF-RISING WHEAT-FLOUR. J. ALLEN SMITH & CO., Knoxville, Tenn.
Filed January 11, 1921. Serial No. 142,107. PUBLISHED MAY 17, 1921.

146,003. PHARMACEUTICAL PREPARATIONS—NAMELY, EPINEPHRIN AND EPINEPHRIN SUBSTITUTE. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed November 8, 1920. Serial No. 139,381. PUBLISHED APRIL 12, 1921.

146,004. PHARMACEUTICAL PREPARATIONS—NAMELY, EPINEPHRIN AND EPINEPHRIN SUBSTITUTE. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed November 8, 1920. Serial No. 139,382. PUBLISHED APRIL 12, 1921.

146,005. PREPARATION FOR THE TREATMENT OF DISEASES OF THE THROAT AND LUNGS. MARY A. SORDS, Cleveland, Ohio.
Filed November 10, 1920. Serial No. 139,480. PUBLISHED APRIL 12, 1921.

146,006. CONSTRUCTION TOYS, TOY RAILROADS AND THEIR ACCESSORIES, AND INSTRUMENTS FOR DRAWING IN SAND. STÉ. AN. POUR L'EXPLOITATION DE JOUETS S. A. J., Paris, France.
Filed June 24, 1920. Serial No. 134,154. PUBLISHED MAY 24, 1921.

146,007. HAND-OPERATED TOY CARS FOR INDOOR OR OUTDOOR USE. STOEHRER & PRATT DODGEM CORPORATION, Lawrence, Mass.
Filed September 25, 1920. Serial No. 137,636. PUBLISHED MAY 24, 1921.

146,008. FACE-POWDER. JAMES F. SULLIVAN, Camden, N. J.
Filed November 5, 1920. Serial No. 139,231. PUBLISHED APRIL 26, 1921.

146,009. TOOTH-PASTE. JAMES F. SULLIVAN, Camden, N. J.
Filed November 5, 1920. Serial No. 139,232. PUBLISHED APRIL 26, 1921.

146,010. SALTED NUTS, NUTS IN THEIR NATURAL STATE, AND CANDY. THRIFT STORES, INC., Springfield, Mass.
Filed March 8, 1920. Serial No. 129,432. PUBLISHED MAY 10, 1921.

146,011. COFFEE. ANASTASIOS TRIANTAFILAKOS, New York, N. Y.
Filed January 14, 1919. Serial No. 115,193. PUBLISHED MAY 10, 1921.

146,012. GOLF-BALLS. UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y.
Filed June 16, 1920. Serial No. 133,808. PUBLISHED MAY 24, 1921.

146,013. CERTAIN NAMED TOILET PREPARATIONS. V. VIVAUDOU, INC., New York, N. Y.
Filed November 26, 1920. Serial No. 140,223. PUBLISHED MAY 10, 1921.

146,014. AN ANTISEPTIC. VAN VLEET-MANSFIELD DRUG CO., Memphis, Tenn.
Filed October 5, 1920. Serial No. 137,978. PUBLISHED MAY 10, 1921.

146,015. SARDINES AND OLIVE-OIL. VON BREMEN, ASCHE & CO., New York, N. Y.
Filed May 25, 1920. Serial No. 132,962. PUBLISHED MAY 10, 1921.

146,016. COFFEE. WAPLES-PLATTER GROCER COMPANY, Denison, Tex.
Filed January 7, 1919. Serial No. 115,033. PUBLISHED MAY 10, 1921.

146,017. LAXATIVE MEDICINES. A. J. WHITE, LIMITED, New York, N. Y.
Filed October 9, 1920. Serial No. 138,154. PUBLISHED APRIL 19, 1921.

146,018. CANDY AND CAKE. HIDETARO YAMAGUCHI, Arlington, N. J.
Filed January 20, 1921. Serial No. 142,548. PUBLISHED MAY 17, 1921.

146,019. PERFUMES. GERARD M. WILDES, New York, N. Y.
Filed November 9, 1920. Serial No. 139,435. PUBLISHED APRIL 12, 1921.

146,020. PREPARATION FOR USE IN THE TREATMENT OF PYORRHEA. C. S. WILLIAMS, Ellisville, Miss.
Filed November 6, 1920. Serial No. 139,336. PUBLISHED APRIL 26, 1921.

146,021. PLAIN WHITE, DYED, OR PRINTED COTTON PIECE GOODS. WINDSOR PRINT WORKS, North Adams, Mass., and New York, N. Y., assignor to Consolidated Textile Corporation, New York, N. Y., a Corporation of New York.
Filed February 27, 1920. Serial No. 128,986. PUBLISHED MAY 10, 1921.

146,022. ANTIGONORRHEIC AND ASTRINGENT MEDICAL SUBSTANCES. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed August 17, 1920. Serial No. 136,220. PUBLISHED APRIL 5, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

AUGUST 23, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

146,023. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. THEO. ABBOTT & CO., Philadelphia, Pa. Filed May 21, 1921. Serial No. 148,013.

"LONG-LIFE-COLORS"

Particular description of goods.—Fiber Fabric Imitating Silk in the Piece and Draperies, Table-Covers, Pillow-Tops, &c.
Claims use since about Jan. 16, 1919.

146,024. (CLASS 25. LOCKS AND SAFES.) ALBANY HARDWARE SPECIALTY MFG. CO., Albany, Wis. Filed Sept. 7, 1920. Serial No. 136,868.

WHITCOMB

Particular description of goods.—Latches.
Claims use since 1900.

146,025. (CLASS 12. CONSTRUCTION MATERIALS.) THE AMERICAN TURPENTINE COMPANY, Cleveland, Ohio. Filed May 6, 1921. Serial No. 147,274.

HORNEBLENDE

Particular description of goods.—Plastic Cement, Asphalt Roll Roofing, and Asphalt Shingle Roofing.
Claims use since about Oct. 18, 1915.

146,026. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) ARTHUR S. BROWN MFG. CO., Tilton, N. H. Filed Mar. 29, 1921. Serial No. 145,385.

ENDLESS TILTON WOVEN FAN BELTS

Particular description of goods.—Transmission Belts Made of Fabric.
Claims use since July, 1919.

146,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CARY MAPLE SUGAR COMPANY, St. Johnsbury, Vt. Filed Nov. 18, 1920. Serial No. 139,787.

MAPLE HONEY

Particular description of goods.—Cakes of Maple-Sugar, Cans of Soft-Grain Maple-Sugar, and Pure Sap Syrup.
Claims use since on or about the 1st day of March, 1907.

146,028. (CLASS 38. PRINTS AND PUBLICATIONS.) CHRISTMAS CLUB (A CORPORATION,) New York, N. Y. Filed Oct. 30, 1920. Serial No. 138,979.

CHRISTMAS CLUB

Particular description of goods.—Printed Books, Pamphlets, Posters, Car and Advertising Cards, and Circulars.
Claims use since Oct. 1, 1909.

146,029. (CLASS 38. PRINTS AND PUBLICATIONS.) P. F. COLLIER & SON COMPANY, New York, N. Y. Filed Aug. 23, 1920. Serial No. 136,359.

THE HARVARD CLASSICS

Particular description of goods.—Series of Books.
Claims use since 1909.

146,030. (CLASS 38. PRINTS AND PUBLICATIONS.) P. F. COLLIER & SON COMPANY, New York, N. Y. Filed Aug. 23, 1920. Serial No. 136,360.

THE FIVE-FOOT SHELF OF BOOKS

Particular description of goods.—Series of Books.
Claims use since 1909.

146,031. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EYE BRAND CONFECTIONERY, INC., Brooklyn, N. Y. Filed Dec. 2, 1920. Serial No. 140,526.

AMERICAN BLOCKS

Particular description of goods.—Candies—Namely, "Square Suckers."
Claims use since June 1, 1917.

146,032. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GIBSON MFG. CO., Concord, N. C. Filed May 28, 1921. Serial No. 148,382.

KNICKER CLOTH

Particular description of goods.—Cotton Piece Goods.
Claims use since June, 1915.

146,033. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 6, 1921. Serial No. 147,285.

GOODYEAR

Particular description of goods.—Vehicle Tires and Treads Therefor Composed Wholly or in Part of Rubber.
Claims use since Mar. 1, 1920

146,034. (CLASS 32. FURNITURE AND UPHOLSTERY.) M. L. HIMMEL & SON, Baltimore, Md. Filed Oct. 21, 1920. Serial No. 138,641.

"MODEL" CLOTHING CARRIER

Particular description of goods.—Sectional Garment-Cabinets.
Claims use since 1910.

146,035. (CLASS 32. FURNITURE AND UPHOLSTERY.) M. L. HIMMEL & SON, Baltimore, Md. Filed Oct. 21, 1920. Serial No. 138,643

"ALLINSITE"

Particular description of goods.—Revolving-Rack Wardrobes.
Claims use since 1910.

146,036. (CLASS 32. FURNITURE AND UPHOLSTERY.) M. L. HIMMEL & SON, Baltimore, Md. Filed Oct. 21, 1920. Serial No. 138,644.

HIMMEL BALTIMORE

Particular description of goods.—Tables for Office and Household Use, and Partitions and Railings for Store and Office Equipment.
Claims use since 1910.

146,037. (CLASS 32. FURNITURE AND UPHOLSTERY.) M. L. HIMMEL & SON, Baltimore, Md. Filed Oct. 21, 1920. Serial No. 138,645.

"FAULTLESS"

Particular description of goods.—Revolving-Rack Wardrobes.
Claims use since 1910.

146,038. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE HORTON MANUFACTURING COMPANY, Bristol, Conn. Filed Jan. 29, 1921. Serial No. 142,832.

DE LUXE

Particular description of goods.—Fishing-Rods.
Claims use since Jan. 1, 1915.

146,039. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed June 1, 1921. Serial No. 148,494.

No-Lite

Particular description of goods.—Hand-Painted Shade-Cloth.
Claims use since about May 1, 1920.

146,040. (CLASS 39. CLOTHING.) KAHN TAILORING COMPANY, Indianapolis, Ind. Filed Nov. 6, 1920. Serial No. 139,285.

The Kind of Clothes KAHN MADE TO MEASURE CLOTHES Gentlemen Wear

Particular description of goods.—Men's Clothes, Comprising Coats, Vests, and Trousers.
Claims use since Aug. 1, 1916.

146,041. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KING & WILLIAMS, Delphos, Ohio. Filed Apr. 2, 1921. Serial No. 145,632.

SKINTONE

Particular description of goods.—A Preparation for the Treatment of Eczema, Scrofula, Lupus, Salt Rheum, Tetter, Itch, Barber's Itch, and Dandruff.
Claims use since August, 1915.

146,042. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) LAWSON MANUFACTURING COMPANY, Pittsburgh, Pa. Filed Apr. 4, 1921. Serial No. 145,694.

Lawson

Particular description of goods.—Gas Water-Heaters and Gas Heating-Stoves.
Claims use since Aug. 1, 1914.

146,043. (CLASS 12. CONSTRUCTION MATERIALS.) LOS ANGELES PRESSED BRICK CO., Los Angeles, Calif. Filed June 9, 1920. Serial No. 133,485.

Varicolor

Particular description of goods.—Pressed Clay Products—Namely, Bricks and Tiles for Construction Purposes.
Claims use since Apr. 27, 1920.

146,044. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MADISON CHEMICAL COMPANY, INC., New York, N. Y. Filed Feb. 3, 1921. Serial No. 143,136.

CANDY-ASPIRIN

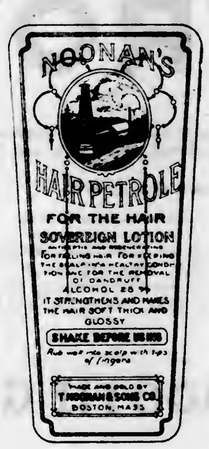
Particular description of goods.—Remedying Colds, Rheumatism, Headache, Neuralgia, Toothache, Earache, Periodical Pains, and General Relief of Pain.
Claims use since Jan. 15, 1920.

146,045. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1921. Serial No. 146,542.

Vassar

Particular description of goods.—Snap-Fasteners.
Claims use since April, 1918.

146,046. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. NOONAN & SONS COMPANY, Boston, Mass. Filed Apr. 13, 1921. Serial No. 146,130.



Particular description of goods.—Hair-Tonic.
Claims use since on or about Sept. 1, 1913.

146,047. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) W. S. NOTT COMPANY, Minneapolis, Minn. Filed Mar. 2, 1921. Serial No. 144,269.

RIVERSIDE

Particular description of goods.—Rubber Belting and Rubber Hose.
Claims use since Jan. 1, 1900.

146,048. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) W. S. NOTT COMPANY, Minneapolis, Minn. Filed Mar. 2, 1921. Serial No. 144,270.

CLIFTON

Particular description of goods.—Rubber Belting and Rubber Hose.
Claims use since Oct. 1, 1908.

146,049. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RICO MILK PRODUCTS COMPANY, East Troy, Wis. Filed June 1, 1920. Serial No. 133,168.

TROY

Particular description of goods.—Condensed Milk, Evaporated Milk, Powdered Whole Milk, and Powdered Skim-Milk.
Claims use since Oct. 1, 1919.

146,050. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn. Filed Apr. 26, 1920. Serial No. 131,667.

SMOOTH GRIP

Particular description of goods.—Automobile-Brake Linings.
Claims use since on or about July 1, 1918.

146,051. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) TEMPEST WATERPROOFING CORPORATION, New York, N. Y. Filed Feb. 14, 1921. Serial No. 143,578.

TEMPEST-PROOF

Particular description of goods.—Overcoating, Worsteds, Pile Fabrics, Tentings, Gaberdines, Mohairs, Khaki Cloth, Duck, Automobile-Cloth, Cashmeres, Cassimeres, Serges, Uniform-Cloth, Shoe-Cloth, and Umbrella-Cloth.
Claims use since July 1, 1916.

146,052. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE TIMKEN-DETROIT AXLE COMPANY, Detroit, Mich. Filed Jan. 31, 1921. Serial No. 143,019.

TIMKEN

Particular description of goods.—Axles for Motor Vehicles.
Claims use since 1903.

146,053. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TURPSENE M'F'G. CO., Philadelphia, Pa. Filed June 21, 1920. Serial No. 133,993.

TURPSENE M'F'G CO. PURE SPIRITS OF TURPSENE PHILADELPHIA PA.

Particular description of goods.—Paint-Reducer.
Claims use since about Mar. 1, 1905.

146,054. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAN ANTWERP'S DRUG CORPORATION INC., Mobile, Ala. Filed Apr. 19, 1921. Serial No. 146,408.

SOOTHE SKIN POWDER

Particular description of goods.—Face-Powder.
Claims use since July 29, 1916.

146,055. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VINO MEDICAL CO. INC., New York, N. Y. Filed Apr. 1, 1921. Serial No. 145,599.

ANTIPLASMA

Particular description of goods.—Medicine for the Treatment of Malaria.
Claims use since September, 1919.

146,056. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VOEGELE & DINNING CO. INC., Lynchburg, Va. Filed Apr. 24, 1920. Serial No. 131,614.

V VIRGINIANS

Particular description of goods.—Candy.
Claims use since May 7, 1918.

146,057. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN MARTHA WASHINGTON CANDIES COMPANY, Chicago, Ill. Filed Mar. 12, 1921. Serial No. 144,694.

"HAVE A GRAPE"

Particular description of goods.—Candies.
Claims use since on or about Oct. 1, 1912.

146,058. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WESTERN MARTHA WASHINGTON CANDIES COMPANY, Chicago, Ill. Filed Mar. 12, 1921. Serial No. 144,695.

"THE FAMILY CANDIES OF THE NATION"

Particular description of goods.—Candies.
Claims use since on or about Dec. 1, 1913.

146,059. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) EVERARD L. WILLSON, Milton, Mass. Filed Feb. 17, 1921. Serial No. 143,729.

WASHALL

Particular description of goods.—Washing Compound for Clothes, Dishes, Aluminum, Silverware, Pots, Pans, Bathtubs, and All Kinds of Wood, Metal, and Porcelain.
Claims use since about February, 1920.

LABELS

REGISTERED AUGUST 23, 1921.

23,172.—*Title:* "ALLEN TIRE CASE." (For Cases for Automobile-Tires.) THE ALLEN AUTO SPECIALTY CO., New York, N. Y. Filed May 11, 1921.

23,173.—*Title:* "ALLEN TIRE CASE." (For Cases for Automobile-Tires.) THE ALLEN AUTO SPECIALTY CO., New York, N. Y. Filed May 11, 1921.

23,174.—*Title:* "ALLEN TIRE CASE." (For Cases for Automobile-Tires.) THE ALLEN AUTO SPECIALTY CO., New York, N. Y. Filed May 11, 1921.

23,175.—*Title:* "ALLEN TIRE CASE." (For Cases for Automobile-Tires.) THE ALLEN AUTO SPECIALTY CO., New York, N. Y. Filed May 11, 1921.

23,176.—*Title:* "KHELS." (For Liver-Pills.) AMERICAN GROCERS SOCIETY, INC., Newark, N. J. Filed March 14, 1921.

23,177.—*Title:* "ABESCO COCOANUT OIL." (For Cocoanut-Oil Shampoo.) ATLANTA BARBERS' SUPPLY CO., Atlanta, Ga. Filed February 23, 1921.

23,178.—*Title:* "LIQUID NAIL ENAMEL." (For Enamel for the Nails.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,179.—*Title:* "FACE CREAM." (For Preparations for Beautifying the Skin.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,180.—*Title:* "BANDOLINE." (For Preparations for Keeping the Hair in Wave or Curl.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,181.—*Title:* "EYE LASH AND BROW GROWER." (For Preparation for Stimulating the Growth of the Eye Lashes and Brows.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,182.—*Title:* "PURE TAR SOAP SHAMPOO." (For Preparations for Cleaning the Hair.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,183.—*Title:* "EYEBROW PENCILS." (For Preparations for Coloring the Eyebrows.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,184.—*Title:* "BATH SALTS." (For Preparations for Softening Bath-Water.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,185.—*Title:* "LA BELLE COQUETTE." (For Pomade.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,186.—*Title:* "GARDENIA SOAP." (For Toilet Soap.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,187.—*Title:* "DEPILATORY." (For Preparation for Removing Hair.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,188.—*Title:* "MARYLAND PRIDE." (For Oleomargarin.) THE BALTIMORE BUTTERINE CO., Baltimore, Md. Filed March 29, 1921.

23,189.—*Title:* "16." (For Cards for a Game.) THE B. & T. ENGINEERING AND SALES CO., New York, N. Y. Filed March 17, 1921.

23,190.—*Title:* "BOYSHFORM BRASSIERE." (For Cartons or Boxes Containing Brassières.) THE BOYSHFORM BRASSIERE CO., New York, N. Y. Filed March 25, 1921.

23,191.—*Title:* "BRACH'S CHOCOLATES ASSORTED." (For Boxes and Containers Containing Candy.) E. J. BRACH AND SONS, Chicago, Ill. Filed March 21, 1921.

23,192.—*Title:* "BRACH'S CHOCOLATE COVERED CHERRIES IN CREAM." (For Candy.) E. J. BRACH AND SONS, Chicago, Ill. Filed March 21, 1921.

23,193.—*Title:* "CADILLAC." (For Electric Washing-Machines and Wringers.) THE C. & D. MANUFACTURING CORPORATION, Detroit, Mich. Filed December 2, 1920.

23,194.—*Title:* "COLUMBIA EXCLUSIVE ARTIST." (For Sound-Records of the Columbia Graphophone Company.) COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y. Filed March 2, 1921.

23,195.—*Title:* "COLUMBIA EXCLUSIVE ARTIST." (For Sound-Records of the Columbia Graphophone Company.) COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y. Filed March 2, 1921.

23,196.—*Title:* "RED STICK COFFEE." (For Coffee.) FRANK DANNA, Baton Rouge, La. Filed December 18, 1920.

23,197.—*Title:* "NO-ZO." (For Containers for an Antiseptic for Nose and Mouth.) CARL A. FOWLER, Kansas City, Mo. Filed February 10, 1921.

23,198.—*Title:* "QUALITY FIRST LOUISIANE BRAND KLONDYKES." (For Strawberries.) THOMAS F. GRESSNER, Hammond, La. Filed March 8, 1921.

23,199.—*Title:* "GILLEN'S MALTED MILK CHOCOLATE AND TOASTED ALMONDS." (For Candy.) GILLEN & BONEY, Lincoln, Nebr. Filed August 23, 1920.

23,200.—*Title:* "$1 000.00 GUARANTEED BED BUG KILLER." (For Cans Containing Bedbug-Killer.) B. HELLER & CO., Chicago, Ill. Filed January 29, 1921.

23,201.—*Title:* "KONSERVIRUNGS-SALT." (For a Preparation for Curing Meat, Fish, Fowl, and Game.) B. HELLER & CO., Chicago, Ill. Filed February 10, 1921.

23,202.—*Title:* "HELLER'S FANCY PASTRY BAKING POWDER." (For Receptacles Containing Heller's Fancy Pastry Baking-Powder.) B. HELLER & CO., Chicago, Ill. Filed February 21, 1921.

23,203.—*Title:* "ZANZIBAR-BRAND CATTLE AND SHEEP DIP." (For a Preparation for Dipping Cattle and Sheep.) B. HELLER & CO., Chicago, Ill. Filed February 21, 1921.

23,204.—*Title:* "WHITE SWAN WASHING POWDER." (For a Preparation for Scrubbing and Cleaning Purposes.) B. HELLER & CO., Chicago, Ill. Filed February 21, 1921.

23,205.—*Title:* "CANDY MAKERS' FRIEND." (For a Flavoring Compound.) B. HELLER & CO., Chicago, Ill. Filed February 21, 1921.

23,206.—*Title:* "FLORA LINEN." (For Stationery, Tablets, Pound-Paper, and Envelops.) B. HOPPER, Kalamazoo, Mich. Filed February 7, 1921.

23,207.—*Title:* "TEMPTATION WINE GRAPE JUICE." (For Containers for Grape-Juice.) INTERSTATE PRODUCTS CO., Chicago, Ill. Filed March 28, 1921.

23,208.—*Title:* "SANTONEX COMPACTED FACE POWDERS." (For Receptacles and Packages Containing Compacted Face-Powders.) INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., New York, N. Y. Filed May 24, 1921.

23,209.—*Title:* "SAVON DE TOILETTE TOKALON." (For Receptacles and Packages Containing Toilet Soap.) INTERNATIONAL CONSOLIDATED CHEMICAL CORPORATION, INC., New York, N. Y. Filed May 24, 1921.

23,210.—*Title:* "OUR-OWN." (For Socks.) KING & COMPANY, New York, N. Y. Filed March 5, 1921.

23,211.—*Title:* "LEM-MUD." (For Jars Containing Facial Treatment.) ALFRED J. KRANK, St. Paul, Minn. Filed January 27, 1921.

23,212.—*Title:* "LEMON SHAMPOO." (For Cartons Containing Bottles of Shampoo.) ALFRED J. KRANK, St. Paul, Minn. Filed January 27, 1921.

23,213.—*Title:* "LEWIS' SHAVE-EZEE CREME." (For Shaving-Cream.) THE KREEM-EZE COMPANY, Roseville, Calif. Filed February 1, 1921.

23,214.—*Title:* "TWO IN ONE." (For Hair-Nets.) S. S. KRESGE CO., Detroit, Mich. Filed April 25, 1921.

23,215.—*Title:* "GRANDMA'S CAKE." (For Cake.) LANTZ BROS. BAKING CO., St. Louis, Mo. Filed February 7, 1921.

23,216.—*Title:* "McQUAY-NORRIS JIFFY GRIP PISTON RINGS." (For Piston-Rings.) McQUAY-NORRIS MFG. CO., St. Louis, Mo. Filed April 29, 1921.

23,217.—*Title:* "KROWNIT." (For Hair-Tonics.) MELCHIOR SUPPLY CO., Chicago, Ill. Filed November 1, 1920.

23,218.—*Title:* "MIL-MALT." (For Malt Syrup.) MILWAUKEE MALTING & GRAIN CO., Milwaukee, Wis. Filed May 6, 1921.

23,219.—*Title:* "GREYSOLON." (For Boxes Containing Hard-Center Chocolates.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed May 19, 1921.

23,220.—*Title:* "FRUITS AND NUTS." (For Boxes Containing Chocolate-Covered Fruits and Nuts.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed May 21, 1921.

23,221.—*Title:* "GRANDMA'S BREAD." (For Wax Paper Bread-Wrappers.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis. Filed March 15, 1921.

23,222.—*Title:* "HAYDON'S ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Haydon Company, Brainerd, Minn. Filed March 15, 1921.

23,223.—*Title:* "PEOPLE'S ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Peoples Fuel & Supply Company, Chicago, Ill. Filed March 21, 1921.

23,224.—*Title:* "THE CREAM OF THE TOWN GEO. K. BROWN ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to George K. Brown Co., Chattanooga, Tenn. Filed March 21, 1921.

23,225.—*Title:* "EVEREADY MARINE LIGHTING AND IGNITION BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed April 28, 1921.

23,226.—*Title:* "EVEREADY BELL RINGER." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed April 28, 1921.

23,227.—*Title:* "EVEREADY MOTOR BOAT BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed April 28, 1921.

23,228.—*Title:* "COLUMBIA BELL RINGER." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed May 12, 1921.

23,229.—*Title:* "Y & S." (For Stick-Licorice, Licorice Lozenges, and Licorice Wafers.) NATIONAL LICORICE COMPANY, Brooklyn, N. Y. Filed March 18, 1921.

23,230.—*Title:* "QUEEN." (For Bottles and Packages of Hair-Dressing.) NEWBRO MANUFACTURING COMPANY, Atlanta, Ga. Filed November 10, 1920.

23,231.—*Title:* "OSBORN'S APPLE SAUCE." (For Apple Sauce.) NEW YORK CANNERS, INC., Rochester, N. Y. Filed November 22, 1921.

23,232.—*Title:* "LA FLOR DE C. J. N." (For Cigars.) CHARLES J. NIELSEN'S SONS, Brooklyn, N. Y. Filed May 24, 1921.

23,233.—*Title:* "QUEEN OF PARIS." (For Cigars.) THE PARIS CIGAR COMPANY, Paris, Mo. Filed May 24, 1921.

23,234.—*Title:* "PREMEX." (For Malt Syrup.) PREMIER MALT PRODUCTS CO. OF OHIO, INC., Steubenville, Ohio. Filed May 24, 1921.

23,235.—*Title:* "BILLY BAXTER." (For Bottles or Packages Containing Ginger-Ale.) THE RED RAVEN CORPORATION, Red Raven, Pa. Filed February 11, 1920.

23,236.—*Title:* "ORIENTAL LINIMENT." (For Liniment.) FRED ROSIN, Philadelphia, Pa. Filed December 27, 1920.

23,237.—*Title:* "GOLDEN ROD." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed May 20, 1921.

23,238.—*Title:* "CONCRETE." (For Hosiery.) LEOPOLD B. SCHWAB, New York, N. Y. Filed January 26, 1921.

23,239.—*Title:* "A LAMP FOR MINERS INVENTED BY A MINER." (For Cartons for Miner's Lamp.) SHANKLIN MANUFACTURING COMPANY, Springfield, Ill. Filed February 9, 1921.

23,240.—*Title:* "SMILE." (For Roasted Coffee.) THE SMILE COMPANY, Topeka, Kans. Filed May 16, 1921.

23,241.—*Title:* "ACE." (For Evaporated Milk.) TRI-STATE MILK PRODUCTS CO., Galena, Ill. Filed May 24, 1921.

23,242.—*Title:* "TRUE SHAPE." (For Hosiery.) TRUE SHAPE HOSIERY CO., Philadelphia, Pa. Filed March 12, 1921.

23,243.—*Title:* "RAINBOW." (For Cartons Containing Jar-Rubbers.) UNITED STATES RUBBER COMPANY, New York, N. Y. Filed May 3, 1921.

23,244.—*Title:* "BEAVER." (For Cartons Containing Jar-Rubbers.) UNITED STATES RUBBER COMPANY, New York, N. Y. Filed May 3, 1921.

23,245.—*Title:* "GOLD SEAL." (For Cake.) UNITED STATES FOIL COMPANY, Louisville, Ky. Filed May 28, 1921.

23,246.—*Title:* "OLD KENTUCKY." (For Jelly-Roll.) UNITED STATES FOIL COMPANY, Louisville, Ky. Filed May 28, 1921.

23,247.—*Title:* "LAVO-KLEEN." (For Powder for Cleaning Closet-Bowls.) UNITED STORES SUPPLY CO., Minneapolis, Minn. Filed May 11, 1921.

23,248.—*Title:* "OH! PLEASE." (For Candy.) VAL. BLATZ JR. CANDY CO., Milwaukee, Wis. Filed November 1, 1920.

23,249.—*Title:* "HOOK 'EM COW." (For Cigars.) JACOB C. VERHAAG, St. Paul, Minn. Filed November 10, 1920.

23,250.—*Title:* "WARD BAKING CO.—QUALITY CAKES—MADE CLEAN—100% PURE." (For Cakes.) WARD BAKING COMPANY, New York, N. Y. Filed March 30, 1921.

23,251.—*Title:* "SPORTS." (For Hosiery.) HARNEY I. WILLIAMS, New York, N. Y., assignor to J. William Landenberger, Philadelphia, Pa., trading under firm name and style of J. W. Landenberger & Co. Filed March 23, 1921.

PRINTS

REGISTERED AUGUST 23, 1921.

5,693.—*Title:* "VIRGINIES—A TREAT IN MEAT." (For Advertising Purposes for Canned Meat Patties.) ACME PACKING CO., Chicago, Ill. Filed February 23, 1921.

5,694.—*Title:* "BLUE BAND VELVET PENCILS." (For Advertising Lead-Pencils.) AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Filed May 26, 1921.

5,695.—*Title:* "FAMOUS ACHIEVEMENTS." (For Advertising Purposes for Tires.) THE BRUNSWICK, BALKE, COLLENDER CO., Chicago, Ill. Filed February 16, 1921.

5,696.—*Title:* "CLARKE'S VIRGIN PEANUT OIL." (For Advertising Purposes for Peanut-Oil.) THE E. CLARKE CO., Baltimore, Md. Filed April 5, 1921.

5,697.—*Title:* "UNCLE TOM'S CABIN." (For Advertising Purposes for Wheat Breakfast Food.) CREAM OF WHEAT CO., Minneapolis, Minn. Filed May 23, 1921.

5,698.—*Title:* "DE LAVAL CREAM SEPARATORS." (For Advertising Purposes for Cream-Separators.) THE DE LAVAL SEPARATOR CO., New York, N. Y. Filed February 16, 1921.

5,699.—*Title:* "COVO." (For Advertising Purposes for Vegetable Oils for Salads and for Cooking.) THE N. K. FAIRBANK COMPANY, Chicago, Ill. Filed February 16, 1921.

5,700.—*Title:* "FAIRY SOAP." (For Advertising Purposes for Soaps.) THE N. K. FAIRBANK COMPANY, Chicago, Ill. Filed February 16, 1921.

5,701.—*Title:* "THE 1921 NEAPOLITAN JELLO." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed January 31, 1921.

5,702.—*Title:* "THE 1921 STRAWBERRY JELLO-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) THE GENESEE PURE FOOD COMPANY, Le Roy, N. Y. Filed January 31, 1921.

5,703.—*Title:* "HEINZ VINEGARS, PINTS, QUARTS, HALF-GALLONS. ANY SALAD DRESSING WILL BE BETTER BY THE USE OF THESE VINEGARS." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) H. J. HEINZ CO., Pittsburgh, Pa. Filed December 4, 1920.

5,704.—*Title:* "HEINZ VINEGARS, PINTS, QUARTS, HALF-GALLONS, IN BOTTLES FILLED AND SEALED IN THE HEINZ ESTABLISHMENT. THESE FRAGRANT, PIQUANT VINEGARS." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) H. J. HEINZ CO., Pittsburgh, Pa. Filed December 4, 1920.

5,705.—*Title:* "WINECUP." (For Advertising Purposes for Soft Drinks.) MONARCH BITTERS CO., Buffalo, N. Y. Filed March 23, 1921.

5,706.—*Title:* "THERE ARE NO SUBSTITUTES FOR DAIRY PRODUCTS—AND HEALTHY CHILDREN." (For Advertising Purposes for Dairy Products.) National Dairy Council, Chicago, Ill. Filed February 16, 1921.

5,707.—*Title:* "LYDIA E. PINKHAM'S VEGETABLE COMPOUND." (For Advertising Purposes for a Vegetable Compound Used for Medicinal Purposes.) LYDIA E. PINKHAM MEDICINE CO., Lynn, Mass. Filed February 16, 1921.

5,708.—*Title:* "GRAPE-NUTS—FOOD FOR STURDY HEALTH." (For Advertising Purposes for Foods—Grape-Nuts.) POSTUM CEREAL CO. INC., Battle Creek, Mich. Filed February 16, 1921.

5,709.—*Title:* "DOUGH-BOY." (For Advertising Purposes for Bread.) JAMES W. RINEHART, Columbus, Ohio. Filed February 27, 1920.

5,710.—*Title:* "TIGER-FOOT TIRES." (For Advertising Purposes for Tires.) THE STANDARD TIRE CO., Willoughby, Ohio. Filed July 8, 1920.

5,711.—*Title:* "HOTTER THAN SUNSHINE." (For Advertising Purposes for Coal.) UNITED FUEL & SUPPLY COMPANY, Detroit, Mich. Filed March 9, 1921.

5,712.—*Title:* "JABON DE AFEITAR DE WILLIAMS." (For Advertising Purposes for Soap—Stick, Powder, Paste, Cream, and Liquid.) THE J. B. WILLIAMS COMPANY, Glastonbury, Conn. Filed February 16, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

FICKLEN *et al. v.* HARDING.

Decided April 13, 1921.

(273 Fed. Rep., 179.)

PATENTS—No. 1,098,792, FOR STREET-PAVEMENT, VOID FOR PRIOR USE.

The Ficklen patent, No. 1,098,792, for street-pavement *Held* void for prior public use of a pavement having all essential elements of that of the patent.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit in equity by William E. Ficklen and Fred J. Klein against J. Horace Harding. Decree for defendant, and complainants appeal. Affirmed.

STATEMENT OF THE CASE.

Suit is upon patent to Ficklen (application filed August 21, 1909, issued June 2, 1914), No. 1,098,792, for a "street pavement." Plaintiffs rely on claims 1, 2, 3, 6, and 7, of which the third claim describes the subject-matter with great particularity and is as follows:

3. A pavement comprising an earth roadbed, a crust supported directly on said roadbed and comprising a plurality of concrete sections of relatively large area, separated from each other by expansion joints extending from the top of the pavement to the roadbed, and reinforcing means imbedded in and carried by and continuing along the concrete section at the joints which require reinforcement; said reinforcing means consisting of metal strips set into the upper surfaces of the concrete sections along the expansion joints.

After seeing and hearing numerous witnesses the trial court dismissed the bill; the final decree declaring merely that the Letters Patent in suit "are void." The opinion of Mayer, district judge, found a prior use on the part of one Baker, such use consisting in the construction (for Wayne county, Mich.) of about a mile of concrete road on Woodward avenue, near Detroit, in April–June, 1919. He therefore did not consider any other defense, although several were urged below and are presented on this appeal.

Mr. W. H. C. Clarke and *Mr. George H. Gilman* for the appellants.

Mr. W. F. Guthrie for the appellee.

Before WARD, HOUGH, and MANTON, circuit judges.

HOUGH, *Cir. J.*, (after stating the facts as above:)

Counsel for Ficklen present in argument the following description of the subject-matter of the patent in suit:

A loose-foundation, expansion-jointed, creeping-section, single-course untopped concrete road having self-setting, substantially-component, soft-wearing reinforcements out of contact with the roadbed at the upper edges of those joints which require reinforcement.

For purposes of discussion only we accept this collection of laudatory phrases as the best that can be said for Ficklen's patent, as it issued, after a very stormy career in the Office. We may, however, state our opinion that Ficklen's disclosure, as filed in 1909, could not have merited from even the most friendly critic such a description as we have just quoted. If the patent has ever taken a form which justifies the claims now made for it, the transformation occurred only when the present claims were advanced; *i. e.*, after 1912.

As for the disclosures and proposed claims as filed, we agree with the summary disposition of them made by the Primary Examiner who rejected them as showing no invention over Colgnet, 98,033. It may be true that Mr. Ficklen, or his solicitors, did not watch the rapidly-advancing art, and amend claims and specification so as to capture some portion of it; but it is plainly true that he did not describe in specification or define in claims that for which he now demands protection until long after his filing date.

We have mentioned this only because the public use found by the court below occurred so soon before Ficklen filed his application. With the findings of fact made by the lower court we entirely agree, and it would serve no good purpose to rehearse the evidence. The result is that, several months before Ficklen filed any application, and several years before he described substantially that which is now said to infringe, the commissioners of Wayne county had and the public used a road substantially as described in the claim first above quoted.

It is said that this road, or so much of it as embodied what is said to be Ficklen's idea, was either an abandoned experiment or an experimental use. As to the law on these points, we need add nothing to our decision in *Eastman* v. *Mayor*, (134 Fed., 844; 69 C. C. A., 628.)

But it is always true that the question whether a given use is experimental or not is one of fact, and we are of opinion that Baker's or Wayne county's use of the road in question had ceased to be an experiment before Ficklen's filing date. Whatever value there was in it was apparent, and favorably apparent, before that time; that it has not proved important is of no moment, and that it may have been superseded by later and better devices does not render the original use experimental, nor make out of it an abandoned experiment.

Appellant much relies upon the case of *Warren* v. *Owosso*, (166 Fed., 309; 92 C. C. A., 227.) That case is to be read in conjunction with the subsequent decision of the same court in *Young* v. *Burley*, (200 Fed., 258; 118 C. C. A., 368.) So read, they do hold that a use of paving for foot passengers was a distinct use from that of the same paving for vehicular traffic. We express no opinion on the foregoing doctrine, other than to point out that the Wayne county use of 1909 was in kind as well as in degree exactly that for which Ficklen's pavement was and is intended.

The decree appealed from is affirmed, with costs.

Supreme Court of the United States.

STARK BROTHERS NURSERIES & ORCHARDS COMPANY *v.* WILLIAM P. STARK AND WILLIAM H. STARK, TRUSTEES, DOING BUSINESS UNDER THE NAME AND STYLE OF WILLIAM P. STARK NURSERIES.

Decided January 31, 1921.

TRADE-MARK—REGISTRATION—INFRINGEMENT—ACCOUNTING—DAMAGES—LIMITATION TO DATE OF NOTICE.

Both the account of profits and the damages in a suit for the infringement of a registered trade-mark, brought in a Federal district court without diversity of citizenship, are limited to the date when notice was given of the registered mark, by the Trade-Mark Act of February 20, 1905, section 28, which makes it the duty of the registrant to give notice to the public by attaching certain specified words or abbreviations to the trade-mark, or to the receptacle wherein the article is inclosed, and provides that "in any suit for infringement by a party failing so to give notice of registration no damages shall be recovered except on proof that the defendant was duly notified of infringement and continued the same after such notice," notwithstanding an earlier notice calling on the defendants "to discontinue the unfair competition and infringement on our rights," and the wilful character of defendants' wrongdoing.

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Eighth Circuit to review a decree which modified, and affirmed as modified, a decree of the District Court for the Western District of Missouri in favor of plaintiff in a trade-mark infringement suit. Affirmed.

Mr. Andrew B. Remick for petitioner.

Mr. Xenophon P. Wilfley for respondents.

Mr. Justice HOLMES delivered the opinion of the Court.

This is a suit brought September 11, 1916, in the district court of the United States by the petitioner, a Missouri corporation, against citizens of Missouri, for an infringement of a trade-mark, "Stark Trees," registered under the act of Congress of February 20, 1905, (chap. 592, 33 Stat. at L., 724; Comp. Stat., sec. 9485; 9 Fed. Stat. Anno. 2d ed., p. 747,) and amendments. The district court found infringement and unfair competition, granted an injunction, and made a decree for an account of profits from March 11, 1914, when the infringement began, limiting the damages, however, to those suffered after August 26, 1916, that being the date when the plaintiff gave the defendant notice of the registration of the mark. The circuit court of appeals concurred with the district court as to the facts, but limited the account as well as the damages to the date when notice was given of the registered mark, a few days before the bringing of this suit. (248 Fed., 154; 168 C. C. A., 221; 257 Fed., 9.) This limitation is the only question here.

By section 28 of the Trade-Mark Act it is made the duty of the registrant to give notice to the public by attaching certain specified words or abbreviations to the trade-mark, or to the receptacle wherein the article is inclosed;

and in any suit for infringement by a party failing so to give notice of registration no damages shall be recovered, except on proof that the defendant was duly notified of infringement, and continued the same after such notice. (33 Stat. at L., 730; chap. 592, Comp. Stat., sec. 9514; 9 Fed. Stat. Anno. 2d ed., p. 789.)

The infringement that is sued for is infringement of a registered trade-mark, not infringement of a trade-mark. That is the plain meaning of the above words and the necessary scope of this suit, since that is the scope of the jurisdiction of the district court. (*A. Leschen & Sons Rope Co.* v. *Broderick & B. Rope Co.*, 201 U. S., 166, 172; 50 L. Ed., 710, 712; 26 Sup. Ct. Rep., 425.) It seems very plain that the plaintiff had a cause of action outside the statute, but that would have to be asserted elsewhere, as the suit was between citizens of the same State. The statute alone gave the right to come into this Court of the United States. Coming in to assert its statutory rights, we will assume in the plaintiff's favor that it could recover for unfair competition that was inseparable from the statutory wrong, but it could not reach back and recover for earlier injuries to rights derived from a different source.

The plaintiff argues that a notice of March 11, 1914, calling on the defendants "to discontinue the unfair competition and infringement on our rights," coupled with the wilful character of the defendants' wrongdoing, ought to lead to a different result, and the district judge seems to have had a similar notion. But that is to forget the origin and necessary limit of the jurisdiction in this case.

Decree affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. Ill.) The Monette patents, Nos. 878,147 and 971,300, for counter-protecting devices, *Held* void for lack of invention. *J. B. Monette Co.* v. *Kurtzon*, 272 F. R., 687.

(U. S. C. C. A. Ohio.) The Conrad patents, Nos. 1,167,742, claims 3, 7, 8, and 14, and 1,167,743, claim 3, for noiseless gears, *Held* invalid for want of invention. *Westinghouse Electric & Mfg. Co.* v. *Formica Insulation Co.*, 272 F. R., 667.

(U. S. D. C. N. Y.) The McLeod patent for cord tire, No. 1,029,307, *Held* void for lack of invention. *McLeod Tire Corporation* v. *B. F. Goodrich Co.*, 272 F. R., 901.

(U. S. C. C. A. Ohio.) The Eccard and Smith patent, No. 1,117,944, claims 1, 2, and 11, for trailer-trucks, *Held* not infringed. *Troy Wagon Works Co.* v. *Ohio Trailer Co.*, 272 F. R., 850.

(U. S. C. C. A. Wis.) The Simpson patent, No. 1,216,175, for improvements in presses, *Held* void for anticipation. *Hummel & Downing Co.* v. *Hinde & Dauch Paper Co.*, 272 F. R., 812.

(U. S. C. C. A. Wis.) The Simpson patent, No. 1,228,978, for platen connections, *Held* void for lack of invention. *Hummel & Downing Co.* v. *Hinde & Dauch Paper Co.*, 272 F. R., 812.

(U. S. C. C. A. Wis.) The Morton reissue patent, No. 14,267, for package-sealing machine, *Held* invalid as unauthorized. *Hummel & Downing Co.* v. *Hinde & Dauch Paper Co.*, 272 F. R., 812.

(U. S. C. C. A. N. Y.) The Ficklen patent, No. 1,098,792, for street-pavement, *Held* void for prior use. *Ficklen* v. *Harding*, 273 F. R., 179.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 19, 1921.

The Cachoid Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Bryant, French & Company, 305 South Fifth street, Minneapolis, Minn., for registration of a trade-mark and trade-mark registered December 11, 1906, No. 58,392, to The Cachoid Company, 170 West Seventy-eighth street, New York, N. Y., and a notice of such declaration sent by registered mail to The Cachoid Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Cachoid Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Disclaimer.

1,371,364.—*Sylvester Leo Gookin*, Boston, Mass. FASTENER-SETTING MACHINE. Patent dated March 15, 1921. Disclaimer filed August 20, 1921, by the assignee, *United Shoe Machinery Corporation*.

Hereby presents this disclaimer to said claim 20 of said patent, which is in the following words, to wit:

"In a fastener setting machine, two raceways arranged to deliver the complemental annular parts of a two-part annular fastener at opposite sides of the plane of the work, respectively, and two coöperative setting tools movable toward and from each other and having central parts arranged to pass through the two parts of such fastener in their respective raceways so as to detach them from the raceways, said tools being arranged to apply the detached fastener parts to the work."

Changes in Classification.

(ORDER No. 2,684.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 3, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 193, Conveyers, (Division IV,) abolish subclasses—

- **Combined types.**
- 52. Endless or rotary and roller-way,
- 51. Endless or rotary and screw,
- 48. Endless or rotary carrier and reciprocating carrier—
- 49. Loading-machine type,
- 50. Reciprocating carrier and roller-way.
- 1. **Conveyers—**
- 64. Leer.
- 2. **Endless—**
- 3. Adjustable leg,
- **Endless—**
- 4. Belt—
- 26. Belt structure,
- 24. Feeders,
- 23. Guides,
- 25. Trippers,
- 27. Troughing-rollers,
- 5. Boot,
- 6. Bucket—
- 28. Bucket structure,
- 7. Bucket, with traction rollers,
- 8. Flight,
- 9. Hook,
- 63. Stairway type.
- 47. **Magnetic.**
- 62. **Reciprocating bar.**
- 12. **Retransfer and weighing.**
- 13. **Screw.**
- 22. **Spouts.**
- 57. **Step by step—**
- 58. Reciprocating bar—
- 59. Coacting catch,
- 60. Interfingered sections,
- 61. Vibrating trough.
- 20. **Storehouse.**
- 14. **Thresher attachments—**
- 15. Foldable,
- 16. Laterally and vertically adjustable,
- 17. Oscillatory,
- 18. Vertically adjustable.
- 19. **Trimmers.**

The patents formerly contained in these subclasses have been placed for the most part in class 198, Conveyers—Power-Driven, hereinafter established.

Establish, in Division IV, class 198, Conveyers—Power-Driven, with the following subclasses and definitions, the patents contained in this class having been taken for the most part from the subclasses hereinbefore abolished in class 193, Conveyers:

198.—CONVEYERS—POWER-DRIVEN.

- 1. **Miscellaneous.**
- 2. **Box-car-loader type—**
- 3. Longitudinally adjustable,
- 4. Centrally supported,
- 5. Single-end supported,
- 6. Blower or thrower.
- 7. **Loading-machine type—**
- Endless conveyer with coacting gatherer—
- 8. Endless gatherer,
- 9. Rotary gatherer,
- 10. Reciprocating gatherer,
- 11. Endless conveyer—
- 12. Bucket,
- 13. Tine,
- 14. Reciprocating conveyer.
- 15. **Locomotive-stoker type.**
- 16. **Escalator type—**
- 17. Endless lateral bend and step-forming conveyer.
- 18. Endless horizontal and step-forming section.
- 19. **Work-station type.**

198.—CONVEYERS—POWER-DRIVEN—Continued.

- 20. **Article-transfer—**
- 21. Article-controlled,
- 22. Circular articles,
- 23. Endless pusher-bar and article-registering,
- 24. Reciprocating pusher,
- 25. Rotary member,
- 26. Intermediate chute and regulator,
- 27. Vertically-swinging member,
- 28. Coacting stationary member.
- 29. **Arranging articles on conveyers—**
- 30. In row or rows,
- 31. Single to multiple rows,
- 32. Multiple to single row,
- 33. Orienting articles,
- 34. Spacing,
- 35. Piling or unpiling.
- 36. **Piling or unpiling bulk material,**
- 37. **Material-controlled drive.**

198.—CONVEYERS—POWER-DRIVEN—Continued.

- 38. **Carrier-controlled selective delivery,**
- 39. **Weighing and measuring.**
- 40. **Signaling, indicating, etc.**
- 41. **Magnetic.**
- 42. **Distributing type.**
- 43. **Conveyer and chute type—**
- 44. Hoppers between conveyers,
- 45. Chutes between conveyers,
- 46. Feeding and discharging—
- 47. Receiving and discharge hoppers,
- 48. Hopper and discharging-chute—
- 49. Adjustable discharging-chute,
- 50. Receiving and discharging chute—
- 51. Adjustable chute,

198.—CONVEYERS—POWER-DRIVEN—Continued.
Conveyer and chute type—
52. Conveyer-feeder—
53. Hopper—
54. Fixed conveyer under storage-bin,
55. For vertical-bucket-type conveyer,
56. For horizontal conveyer—
57. Hopper-bottom endless conveyer—
58. Separate conveyer,
59. Reciprocating feeder—
60. Horizontal load-support,
61. Vertically-vibrating chute,
62. Rotary regulating means,
63. Endless or rotary guiding-chute,
64. Screw feeder,
65. Conveyer discharge—
66. Plural-discharge conveyer—
67. Chute at each end of conveyer,
68. Plural-discharge chute,
69. Hopper—
70. Leg-supported,
71. Rotatable conveyer-leg,
72. Adjustable chute—
73. Vertically swinging,
74. Horizontally swinging.
75. Plural—
76. Variable and differential speeds,
77. Traveling bridge and elevator,
78. Main and tributary—
79. Collecting—
80. Wing-feeders.
81. Distributing,
82. Single line—
83. Plural discharge,
84. Superposed,
85. Closed path,
86. Automatic oscillating,
87. Foldable,
88. Adjustable—
89. Longitudinally slidable,
90. Horizontally swinging delivering to dependent vertically swinging,
91. Vertically swinging delivering to vertically swinging,
92. Series carriers,
93. Adjustable delivering to stationary—
94. Vertically swinging,
95. Horisontally swinging,
96. Bodily adjustable,
97. Stationary delivering to adjustable—
98. Receiving hopper type,
99. Vertically swinging,
100. Horisontally swinging,
101. Bodily adjustable.
102. Both endless,
103. Endless and rotary,

198.—CONVEYERS—POWER-DRIVEN—Continued.
Plural—
Single line—
104. Endless or rotary and screw,
105. Endless or rotary and live rolls,
106. Endless and reciprocating,
107. Rotary and reciprocating.
108. Single—
109. Flexible frame,
110. Variable velocity and reversible,
111. Automatic shifting—
112. Oscillating,
113. Folding—
114. Swinging—
115. Vertically, pivoted,
116. Suspended loop,
117. Adjustable—
118. Bodily and swinging,
119. Swinging—
120. Bodily,
121. Vertically—
122. Pivoted at receiving end,
123. Pivoted at discharge end,
124. Horizontally—
125. Pivoted at receiving end,
126. Bodily,
Conveying-element structure—
127. Live rolls,
128. Thrower,
129. Endless—
130. Single cable,
131. Special-article engaging—
132. Hod-elevator type,
133. Signatures,
134. Sheet on edge,
135. Step by step,
136. Spiral,
137. With guides—
138. Off-bearing,
139. Extensible,
140. Bucket—
141. Discharging—
142. Hollow-head drum,
143. Bucket-door,
144. Ejector,
145. Pivoted bucket—
146. With drawable trip,
147. Inclined-track trip,
148. Pivoted—
149. Gap-closing,
150. Strand attachment,
151. Strand attachment,
152. Bucket structure,
153. Flexible pocket,
154. Shelf—
155. Tilting discharge,
156. Interfingering—
157. Pivoted,
158. Pivoted,
159. Superposed runs, all runs active,
160. Coacting member—
161. Oppositely moving,
162. Endless—
163. Shelf type,
164. Push-plate,
165. Belt,
166. Reciprocating,
167. Rotary,

198.—CONVEYERS—POWER-DRIVEN—Continued.
Single—
Conveying-element structure—
Endless—
168. Pusher—
169. Plural discharge,
170. Pivoted,
171. Lateral plate,
172. Vertical plate—
173. Upward,
174. Downward,
175. Strand attachment—
176. Single,
177. Hook,
178. Article-impaling,
179. Gripper—
180. For sheets,
181. Uniplaner,
182. Superposed runs, lateral bend,
183. Traveling roll,
184. Belt—
185. Unloader—
186. Tripper,
187. Twister,
188. Scraper,
189. Carrying-chain,
190. Multiple strand,
191. Troughing—
192. Roll,
193. Structure—
194. Chain and fabric,
195. Slatted—
196. Troughed,
197. Friction-increaser,
198. Projecting member—
199. Slat,
200. Single strand (log-dogs),
201. Troughed belt,
202. With alining-guides,
203. Driving devices,
204. Trough structure—
205. Gate,
206. Leg structure—
207. Boot,
208. Tighteners,
209. Rotary—
210. Gripper,
211. Horisontal axis,
212. Pusher,
213. Screw—
214. Variable capacity,
215. Internal thread,
216. Reversible blades and adjustable pitch,
217. Opposed-direction feed,
218. Reciprocating—
219. Interfingered sections,
220. Vibrating trough,
221. Pusher-bar—
222. Platform loader and unloader,
223. Tine,
224. Blade,
225. Coacting catch,
226. Plunger.
227. Antibacksliding.
228. Discharge-hoods.
229. Cleaners—
230. Belt,
231. Leg.
232. Automatic stops.
233. Special vehicle-mounts and auxiliary supports.

THOMAS E. ROBERTSON, *Commissioner.*

Patents Nos. 1,388,839 to 1,389,569.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 289—No. 5. TUESDAY, AUGUST 30, 1921. Price—$5 per year.
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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of August 30, 1921.

Patents	731—No.	1,388,839 to No.	1,389,569, inclusive.
Designs	166—No.	58,666 to No.	58,852, inclusive.
Trade-Marks	94—No.	146,060 to No.	146,153, inclusive.
Labels	83—No.	23,252 to No.	23,334, inclusive.
Prints	17—No.	5,713 to No.	5,729, inclusive.
Reissues	4—No.	15,183 to No.	15,186, inclusive.
Total	1097		

Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 2, 1921.

Beginning with the fiscal year July 1, 1922, the OFFICIAL GAZETTE will be published with weekly and annual indexes only, the monthly indexes being omitted.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 19, 1921.

The Cachoid Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Bryant, French & Company, 305 South Fifth street, Minneapolis, Minn., for registration of a trade-mark and trade-mark registered December 11, 1906, No. 58,892, to The Cachoid Company, 170 West Seventy-eighth street, New York, N. Y., and a notice of such declaration sent by registered mail to The Cachoid Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The Cachoid Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 31, 1921.

The Premier Cabinet Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Polyphonwerke Aktiengesellschaft, 76 Markgrafenstrasse, Berlin, Germany, and The Premier Grand Piano Corporation, 510–532 West Twenty-third street, New York, N. Y., for registrations of trade-marks and trade-mark registered December 19, 1916, No. 114,546, to The Premier Cabinet Company, 495–497 Hepburn street, Williamsport, Pa., and a notice of such declaration sent by registered mail to The Premier Cabinet Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The Premier Cabinet Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Changes in the Directory of the Patent Office.

The following changes in the Directory of the Patent Office published in the GAZETTE of July 26, 1921, are announced.

The list of Law Examiners is changed to read:

I. P. Disney, T. A. Hostetler, Chas. H. Lane, M. J. Moore, and Geo. P. Tucker.

The list of Examiners, as to the following divisions, is changed to read:

Div.	Examiners.
40	J. J. Oberlin.
43	F. M. Hopkins.
48	O. B. Roepke.

The list of Chiefs of Divisions is changed to read:

Div.	
C	D. W. Edelin.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Mark section will include: Trade-Marks published under the act of 1905; Trade-Marks registered under the act of 1905 and under the act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

Condition of Applications Under Examination at Close of Business August 20, 1921.

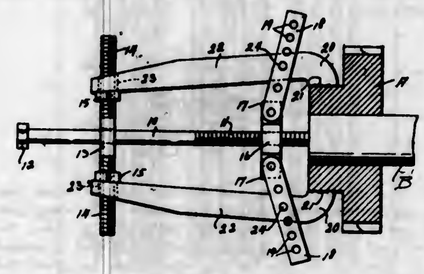
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Sept. 3; oldest amended, Nov. 5.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Mar. 3	Mar. 21	686
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Dec. 2	Jan. 17	1,562
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 18	Nov. 5	716
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 20	Mar. 16	1,642
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 19	Jan. 3	862
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 2	May 10	1,001
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Feb. 23	Apr. 6	1,731
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 2	June 24	743
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 3	July 9	850
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 4	June 9	1,180
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	May 9	May 20	445
222	12. PIERCE, P. F., Machine Elements	Jan. 20	May 16	1,071
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Oct. 29	May 11	1,600
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 15	June 18	882
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 3	Jan. 27	1,657
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Oct. 6	Jan. 29	1,499
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 11	Apr. 30	903
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Oct. 7	Jan. 24	1,644
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 19	Feb. 25	950
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Mar. 29	Apr. 14	1,282
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Dec. 29	May 18	613
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	Apr. 26	May 26	474
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 31	May 24	814
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 10	May 28	928
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 16	June 14	272
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Jan. 12	Mar. 30	778
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Mar. 1	May 5	1,257
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 7	Mar. 24	1,206
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Jan. 17	June 4	727
152	30. SULLIVAN, M. B., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 7	June 11	1,225
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 11	Nov. 8	2,081
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Oct. 14	June 3	1,103
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Feb. 16	Mar. 31	765
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	June 11	July 1	362
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 8	July 19	606
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Mar. 19	Mar. 16	1,564
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 17	Feb. 2	2,172
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 2	Mar. 30	1,155
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 4	Dec. 23	1,796
273	40. HOPKINS, F. M., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 10	2,130
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Jan. 24	Mar. 26	862
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Nov. 29	Nov. 12	2,253
382	43. LANE, C. H., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Nov. 26	Jan. 3	1,455
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Nov. 29	June 2	527
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Feb. 5	Mar. 24	1,154
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Feb. 2	Mar. 2	1,010
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Dec. 4	Mar. 29	1,115
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, Jr.			
	Trade-Marks	Nov. 9	June 15	4,505
	Designs	Dec. 1	Mar. 1	2,101
	Labels and Prints	July 1	Aug. 18	273

Total number of applications awaiting action, excluding Trade-Mark division, 53,350; Trade-Mark division, 6,879.

PATENTS

GRANTED AUGUST 20, 1921.

1,388,839. GEAR AND KEY PULLER. THOMAS W. ALLEN, Hoquiam, Wash. Filed Feb. 18, 1920, Serial No. 359,748. Renewed May 28, 1921. Serial No. 473,322. 3 Claims. (Cl. 29—85.)



1. A device of the character described comprising a centrally disposed screw, a collar through which the screw loosely passes and having oppositely projecting, screw-threaded arms, a nut engaged by the threads of the screw and having arms pivoted thereto, jaws having shanks pivoted to said arms, said shanks at the ends remote from the jaws being provided with perforations through which the arms of the collar loosely pass, and nuts carried upon said arms and engaging against the adjacent ends of the shanks whereby the adjacent ends of the shanks may be forced outward and the jaws forced against the work.

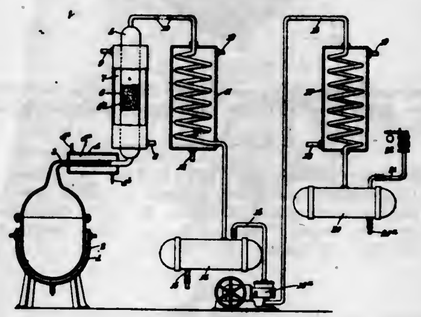
1,388,840. PREPARING TIRES FOR SHIPMENT OR STORAGE. EDWARD H. ANGIER, Framingham, Mass. Filed Jan. 11, 1918. Serial No. 211,414. 7 Claims. (Cl. 206—46.)



1. As a unit for shipment or storage, in combination, a tire shoe and a protective strip of wrapping material encircling the inner circumference of the same, covering solely the inner portion of the tire and closing the space between the beads.

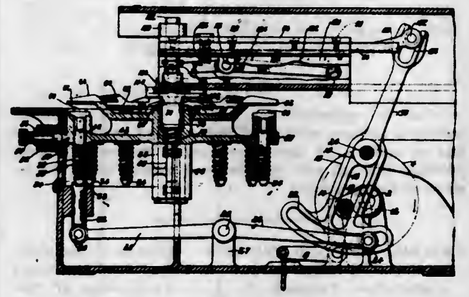
1,388,841. PROCESS OF MAKING ALDEHYDES. ARTHUR A. BACKHAUS, Baltimore, and FRED B. ARENTZ, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co., a Corporation of West Virginia. Filed June 24, 1918. Serial No. 241,649. 4 Claims. (Cl. 23—24.)

1. The process which comprises preheating an alcohol vapor to a temperature lying between 250 and 350 degrees C., and passing it through a catalytic agent comprising finely divided metallic particles maintained at



about the above temperature, and separating out the aldehyde formed.

1,388,842. ARCTIC-UPPER-STAMPING MACHINE. LEWIS J. BAZZONI, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 29, 1920. Serial No. 369,736. 36 Claims. (Cl. 91—18.)

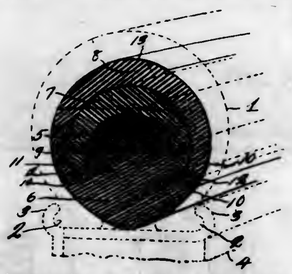


1. In a marking machine, a stencil, a corresponding impression member for forcing rough fibrous material through the stencil to stretch and compact the fibers, and means to apply coloring matter to the stretched and compacted fibers.

1,388,843. RESILIENT-TIRE-CASING FILLER. LORENZ F. BIESMEYER and OTTO STOCKSICK, Chamois, Mo. Filed Apr. 5, 1921. Serial No. 458,649. 1 Claim. (Cl. 152—5.)

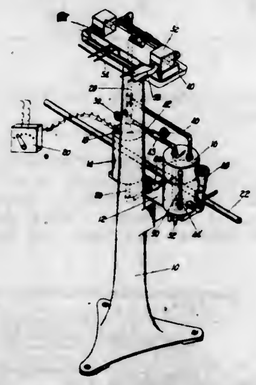
A tire core substantially round in cross section, said core comprising an annular inner member, an annular rib carried by the outer side of the annular inner member and centrally thereof, thereby forming outwardly extending annular flanges, annular sections disposed on the annular rib of the inner member and having their

marginal edges in abutting engagement with the faces of the flanges of the annular inner member, said annular



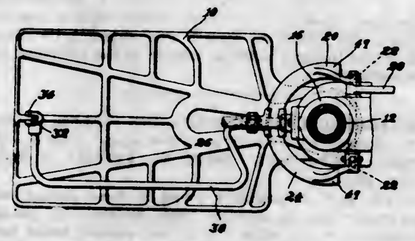
sections interengaging each other and having the curvature of the inner and outer sides thereof eccentric to each other.

1,388,844. SOFTENING APPARATUS. CHARLES M. BRADFORD, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 4, 1918. Serial No. 215,319. 24 Claims. (Cl. 12—1.)



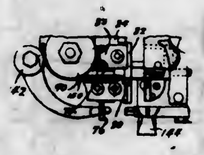
1. In an apparatus for treating shoes, a humidifier having a pressure-sustaining chamber and having an inlet and an outlet, and means arranged to conduct air under pressure through said chamber and thence to a shoe positioned for treatment.

1,388,845. CUTTING-MACHINE. WILLIAM J. BRENNAN, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 21, 1919. Serial No. 284,150. 13 Claims. (Cl. 164—23.)



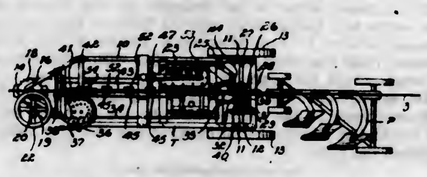
1. In a cutting machine, a cutting bed, a presser member movable into and out of operative position over said bed and toward and from said bed, in pressure-applying operations, and means for controlling the movements of the presser member comprising a lever consisting of relatively movable portions, one of said portions being provided with a plate of semi-circular shape and the other portion having a part designed, slidably to embrace the semi-circular plate for movement therealong.

1,388,846. STAPLE MAKING AND DRIVING MACHINE. MATTHIAS BROCK, deceased, Boston, Mass., by Edward L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed Mar. 26, 1915, Serial No. 17,182. Patent No. 1,327,196, dated Jan. 6, 1920. Divided and this application filed Jan. 27, 1919. Serial No. 273,452. 10 Claims. (Cl. 140—129.)



2. In a staple forming and driving machine, wire feeding mechanism, wire cutting mechanism, said wire feeding mechanism comprising feed rolls, and a lever for supporting one of said rolls constructed and arranged to be operated by the cutting mechanism to cause the separation of the feed rolls in a lateral direction.

1,388,847. FARM IMPLEMENT. ANTON BRUNNERT, Old Monroe, Mo. Filed May 31, 1921. Serial No. 473,658. 8 Claims. (Cl. 104—169.)



1. A farm implement comprising a frame provided with a running gear, an endless chain mounted thereon, gripping devices on said chain and a tractional element disposed above said gripping devices.

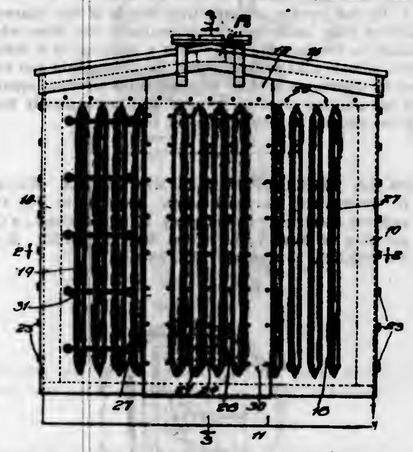
1,388,848. TIRE-DISPLAY SUPPORT. WILLIS M. CARTER, Jersey City, N. J., assignor to The W. F. Powers Company, New York, N. Y., a Corporation of New York. Filed Aug. 30, 1920. Serial No. 406,744. 2 Claims. (Cl. 211—24.)



2. A tire display support comprising a sheet of suitable material fashioned to the desired form and provided with

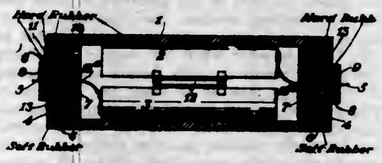
an upwardly directed arc-shaped portion at the opposite sides of which the side edge portions of the sheet are beveled, and display members detachably connected with said sheet.

1,388,849. METAL END STRUCTURE FOR RAILWAY-CARS. SAMUEL H. CONWELL, Chicago, Ill., assignor to Walter P. Murphy, New York, N. Y. Filed Nov. 29, 1919. Serial No. 341,455. 36 Claims. (Cl. 105—410.)



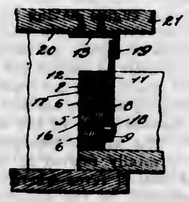
12. A sheet metal end structure for a railway car, the side portions of which are composed, in each case, of a single thickness of sheet metal and the middle portion of which is composed of two sheets arranged face to face.

1,388,850. STORAGE BATTERY. THOMAS R. COOK, Pittsburgh, Pa., assignor to Westinghouse Union Battery Company, Swissvale, Pa., a Corporation of Pennsylvania. Filed July 21, 1920. Serial No. 397,859. 11 Claims. (Cl. 204—28.)



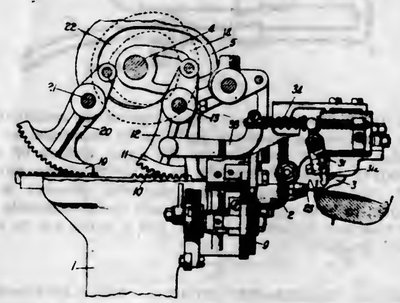
1. A storage battery comprising a tubular container, and two semi-cylindrical plates located in said container.

1,388,851. STOP FOR DRAWERS. HERMAN J. CORDES, San Francisco, Calif. Filed Feb. 16, 1920. Serial No. 358,835. 1 Claim. (Cl. 45—7.)



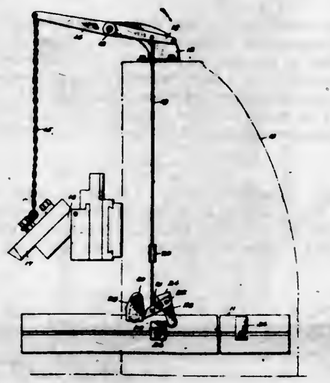
A drawer stop comprising a base plate attached to the wall of a drawer, a stop plate pivotally mounted on the base plate, a recessed portion formed in one of said plates and a projecting portion formed in the opposing plate and adapted to engage with said recessed portion in the opposite plate when the stop plate is swung to one of its pivotal positions.

1,388,852. LASTING-MACHINE. JOHN W. COSGROVE, Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 15, 1918. Serial No. 222,601. 56 Claims. (Cl. 12—2.)



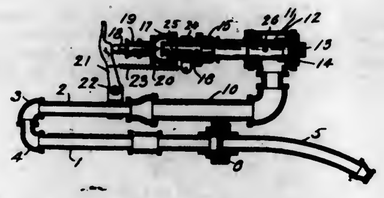
1. In a machine of the class described, an abutment against which shoe parts on a last may be pressed, a fastening inserting mechanism having a fastening guiding nose, means for clamping a portion of the shoe upper against the nose, and means for moving the clamping means and nose toward the abutment to press the shoe thereagainst to tension the upper about the last, the construction and arrangement being such that the clamping pressure on the upper increases with the tensioning of the upper.

1,388,853. ATTACHMENT FOR PLANER OR SIMILAR MACHINES. RICHARD H. DAVIS, Davenport, Iowa. Filed Dec. 23, 1920. Serial No. 432,880. 4 Claims. (Cl. 90—55.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



4. The combination with a planer including a bed plate and a clapper block, of a latching bar pivoted to the planer, a connection between the latching bar and the clapper block, a dog pivoted to the planer to engage the latching bar, means carried by the planer to trip the latching bar to be engaged by the dog and lift the clapper block at the end of the cutting stroke and means carried by the planer to trip the dog and release the latching bar to lower the clapper block at the end of the return stroke.

1,388,854. MEANS FOR CLEARING SERVICE-PIPES OR EJECTING LIQUIDS. RICHARD L. DEENDORF, Richmond Hill, N. Y. Filed Jan. 26, 1920. Serial No. 354,301. 8 Claims. (Cl. 137—70.)



3. In an apparatus for ejecting liquids, the combination of a container, a discharge pipe leading therefrom, an explosion chamber connected to the upper portion of said container, means for igniting an explosive charge within said explosion chamber, said explosion chamber being adapted to hold a cartridge, a breech block removable for the insertion of said cartridge, and a firing pin in said breech block.

1,388,855. LUMINOUS ARTICLE. RUFUS G. FORDYCE, Pittsburgh, Pa., assignor to Radium Dial Company, Pittsburgh, Pa. Filed Feb. 9, 1918. Serial No. 216,21?. 1 Claim. (Cl. 240—1.)



A dial comprising a thin disk of transparent celluloid having depressions forming characters closed at the front of the dial by material of which the dial is composed, said dial provided with a material rendering it opaque except where the character depressions occur, and luminous material in said character depressions and protected by the transparent portions of the dial forming the characters.

1,388,856. MACHINE-GUN. ANSLEY H. FOX, Philadelphia, Pa., assignor to Ansley H. Fox Company, Philadelphia, Pa., a Corporation of Delaware. Filed July 30, 1917. Serial No. 183,401. 15 Claims. (Cl. 89—2.)

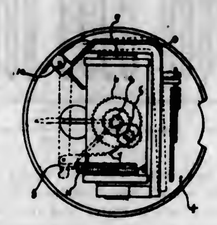


1. In a machine gun, the combination with a receiver having a guide way in the top thereof and a guide way beneath the same, of a barrel fixed to said receiver with its bore in line with said guide way second named, action slide mechanism adapted to reciprocate in said guide way first named, said mechanism having a depending block adapted to reciprocate in said guide way second named, and a sear fulcrumed in said receiver and adapted to engage said block.

1,388,857. PROCESS OF EXTRACTING TUNGSTEN AND SIMILAR METALS FROM THEIR ORES. DAVID JOHN GILBS and JAMES EARL GILBS, McKeesport, Pa. Filed Sept. 30, 1918. Serial No. 256,214. 6 Claims. (Cl. 75—18.)

1. In the process of extracting metals of the character specified from their ores or concentrates, the steps which consist in treating the same with a solution of a readily water soluble alkaline compound, under pressure and heat, thereby forming a soluble alkaline-metal-solution, separating the solution from the gangue, and mechanically treating the gangue to recover the ore residue.

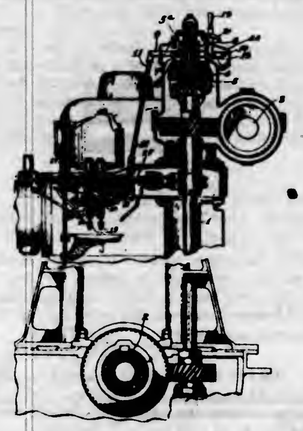
1,388,858. TIME-CONTROLLED MECHANISM. WILLIAM H. GREENLEAF, Hartford, Conn., assignor to The Connecticut Electric Clock Company, Hartford, Conn., a Corporation of New York. Filed Mar. 29, 1920. Serial No. 369,575. 5 Claims. (Cl. 58—41.)



1. The combination of time controlled mechanism involving an arbor, a ratchet wheel associated with said arbor, a magnet, an armature for the magnet, the latter when energized acting to attract its armature, means for operating the armature in an opposite direction, when the magnet is deenergized, a pawl for actuating said ratchet wheel, operated by the armature, a catch member, a circuit controlling member, the armature having controlling means to engage under the catch member and to free the catch member when the magnet is deenergized, the controlling means on such motion also engaging the circuit controlling member to move the same to circuit breaking position, means acting against the catch member to cause it to momentarily hold the circuit controlling member in circuit breaking position, a contact, and means for causing the circuit controlling member to engage said contact, after the catch member has been tripped by said controlling means.

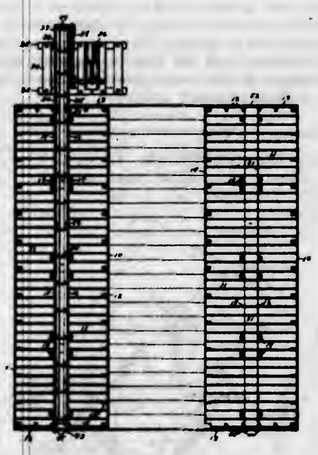
1,388,859. EMERGENCY ENGINE CONTROL. PAUL HENTSCHKE, St. Louis, Mo., assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 14, 1917. Serial No. 148,664. 2 Claims. (Cl. 264—3.)

1. In a combustion engine having an emergency governor remaining inoperative within the range of normal engine speed and operating on an increase of speed to some predetermined limit to cut off the fuel supply, and having also a fuel pump, said governor comprising pivoted weights, a slidable member controlled thereby and a spring opposing the movement of the weights, the combination therewith of a manual emergency control lever, a governor lever pivotally related to both said slidable member and said control lever whereby when the governor lever is operated by the governor it utilizes its pivotal connection with control lever as its fulcrum and when it is operated by the control lever the governor lever utilizes its pivotal connection with the sliding member as its fulcrum, and a connection between said governor lever and said fuel pump whereby operation of the



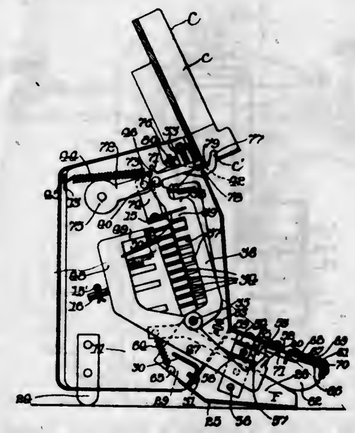
governor lever either by said governor or by said control lever cuts out the delivery of fuel from said pump.

1,388,860. DRAG CONVEYER AND ELEVATOR. ANDY HIGDON, Nevada, Iowa. Filed Dec. 7, 1918. Serial No. 265,677. 1 Claim. (Cl. 193—14.)



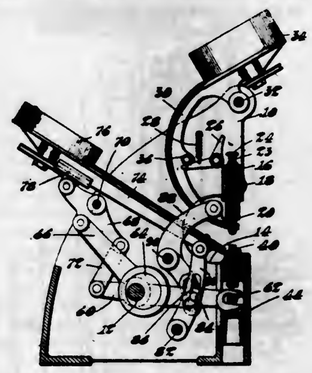
A device of the class described, comprising a horizontally arranged conveyer frame having spaced side frame boards, an elevator frame having side boards spaced to correspond to the side boards of the conveyer, means for supporting the outer end portion of the elevator frame, said elevator frame being formed with an apron projecting from its inner end portion and adapted to extend between the side frame boards of the conveyer frame, said apron being formed with a downturned flange at its free end, said conveyer frame being formed with a transverse rod adapted to be engaged by said flange, and a flexible conveyer adapted for travel in and longitudinally of said conveyer and elevator frames.

1,388,861. COIN-DELIVERING MACHINE. BENJAMIN C. HOEFER, Kansas City, Mo., assignor to Hoefer Change-Maker Company, Kansas City, Mo., a Corporation. Filed Jan. 18, 1918. Serial No. 212,387. 26 Claims. (Cl. 133—4.)



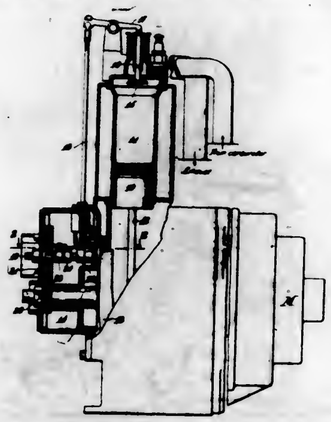
1. In a coin delivering mechanism, a plurality of coin magazines, an ejector for each magazine, a plurality of arms for operating the ejectors, a longitudinally slidable scale, and means set by the scale to actuate said arms for performing an ejecting operation.

1,388,862. FASTENER-SETTING MACHINE. PATRICK J. HORGAN, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed May 11, 1918. Serial No. 233,870. 34 Claims. (Cl. 218—15.)



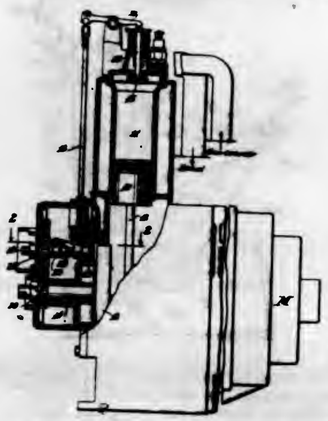
28. A machine of the class described comprising setting mechanism including a fixed setting tool and a movable setting tool, a raceway for supplying fasteners to the fixed tool, the delivery end of the raceway being movable to and from registration with the fixed tool, a spring-projected spindle arranged in the fixed tool so as to be pushed back by the movable tool, and means arranged to restrain the spindle when the latter is pushed back, said means being controlled by the raceway so as to release the spindle when the end of the raceway is in registration with the fixed tool, the spindle being thereupon movable under the influence of its projecting spring to thread the fastener at the end of the raceway.

1,388,863. METHOD OF STARTING INTERNAL-COMBUSTION ENGINES. JOHN W. JEPSON, Buffalo, N. Y., assignor to The Prest-O-Lite Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 25, 1919. Serial No. 319,621. 5 Claims. (Cl. 123—179.)



1. The method of starting a liquid fuel internal combustion engine having a piston and an inlet valve for admission of combustible charges from the carbureter, said method consisting in keeping the inlet valve closed until the piston has traveled a substantial portion of its inlet stroke, and then opening the valve to draw air in through the carbureter at a relatively high velocity and attain a better vaporization of fuel than with normal valve openings whereby the engine may be started.

1,388,864. APPARATUS FOR STARTING INTERNAL COMBUSTION ENGINES. JOHN W. JEPSON, Buffalo, N. Y., assignor to The Prest-O-Lite Company, Inc., New York, N. Y., a Corporation of New York. Filed Aug. 25, 1919. Serial No. 319,622. 7 Claims. (Cl. 123—179.)



1. In an internal combustion engine, the combination with a piston, of an intake valve of a starting cam associated with the valve and adapted to permit the said valve to be kept closed until the piston has traveled a substantial distance on the intake stroke, said cam thereafter opening the said valve and permitting the entrance of mixture, means operable at will to bring said starting cam into operative relation with the valve, said means and said cam being so arranged as to be ineffective in changing the time of the point of closure of said valve.

1,388,865. VENTILATED PULLEY. AUSTIN KIMBLE, Wausau, Wis., assignor to Marathon Electric Mfg. Co., Wausau, Wis., a Corporation of Wisconsin. Filed Apr. 25,1921. Serial No. 464,124. 6 Claims. (Cl. 64—43.)



1. A pulley having a radially disposed centrifugal fan part at one end arranged to admit air centrally and formed at its outer edge to deflect and discharge the air diagonally backward against the outer face of the pulley.

1,388,866. WRENCH. FRANK LAMBERT, Brooklyn, N. Y., assignor to Thomson Meter Company, a Corporation of New Jersey. Filed Oct. 22, 1920. Serial No. 418,744. 5 Claims. (Cl. 81—53.)



2. In a wrench, a handle, a jaw rigidly mounted on said handle, a second jaw movably mounted on said handle, a spring for urging the movable jaw toward the fixed jaw, and means for limiting said movement of the second jaw to provide a normal working opening between the jaws, the tension of said spring being such that the second jaw is movable away from the fixed jaw against the action of said spring when the turning power applied by the wrench exceeds a predetermined amount.

1,388,867. INFANT-BINDER. EMMA L. LABRABEE, West Palm Beach, Fla. Filed Sept. 1, 1920. Serial No. 407,355. 2 Claims. (Cl. 2—98.)

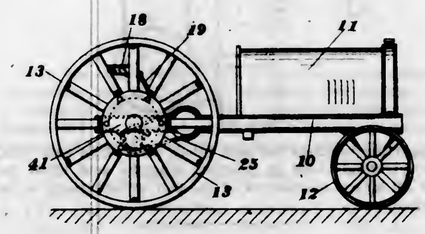


1. An infant binder formed of a single piece of unstiffened material comprising a body portion with a transverse slit and a flap at each end forming extensions of the body portion at the bottom, one of said flaps adapted to pass through the slit when the binder is applied, the upper edge of the body portion being formed with extensions in pairs adapted to overlap over the shoulder of the infant, said flaps being adapted to pass around the body of an infant one over the other.

1,388,868. PROCESS OF PURIFYING LIQUORS BY FROTH FLOTATION. FRANK BUTLER JONES, London, and ERNEST BURY, Yorkshire, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Filed Feb. 26, 1921. Serial No. 447,941. 11 Claims. (Cl. 83—85.)

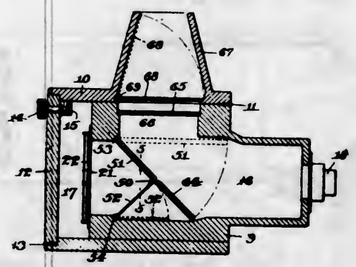
1. The process of treating a liquid which consists in agitating and aerating a liquor containing organic matter derived from the scrubbing of gas obtained from coal and containing finely divided carbonaceous matter and thereby producing a froth containing said organic matter and carbonaceous matter, and separating said froth.

1,388,869. DRIVE MECHANISM FOR VEHICLES. WILLIAM B. LEFLER, Springfield, Nebr. Filed Aug. 23, 1920. Serial No. 405,403. 3 Claims. (Cl. 180—10.)



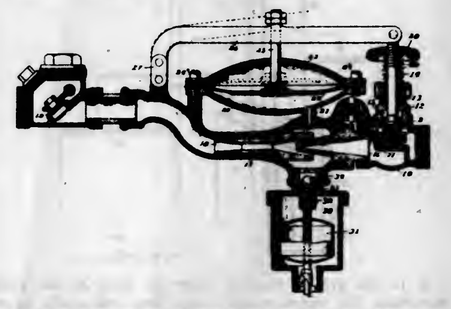
1. In combination with a vehicle having a self-contained power plant, a differential on the vehicle in connection with the power plant, jack shafts journaled in the vehicle and connecting individually with said differential, drive shafts directly supporting the weight at the rear of the vehicle and connected to be individually driven from said jack shafts, pinions on the ends of said drive shafts, traction wheels for the vehicles, internal gears fixed to said traction wheels and engaging with said pinions, sleeves rotatably fitting said drive shafts, arms extending from said sleeves, a rod turning in said arms, and axles extending from said rod on which the traction wheels are fitted to rotate.

1,388,870. CAMERA. ALBERT E. LIPP, Philadelphia, Pa. Filed Dec. 29, 1917. Serial No. 209,387. 11 Claims. (Cl. 88—18.)



1. In a camera, the combination of a casing having an exposure chamber therein, a focusing mirror movable to and from a focusing position, a part coöperating with said mirror and thereby forming an exposure shutter, a movable operating part, and means operated by said part when moved to open said shutter and move said mirror from its focusing position.

1,388,871. VACUUM-GENERATOR FOR STEAM-HEATING SYSTEMS. BRYCE W. MCCLYMONT, Detroit, Mich., assignor to Penberthy Injector Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 27, 1918. Serial No. 264,409. 4 Claims. (Cl. 230—24.)



1. In a device of the character described, an ejector casing having inlet and outlet openings and a vacuum chamber and ejector members arranged to produce a vacuum in said chamber, a diaphragm casing mounted on said ejector casing and a diaphragm arranged therein, one side of said diaphragm being subject to the pressure in said vacuum chamber and the other side exposed to atmospheric pressure, a valve casing and an admission valve therein arranged adjacent the inlet of said ejector casing, said valve having a valve stem, a lever pivotally connected with said valve stem and also flexibly connected with said ejector casing, a link connecting said diaphragm and said lever, a spring tending to open said valve, and a check valve at the outlet opening of said ejector casing.

1,388,872. PICK. LEWIS O. MCELHANEY, Glasford, Ill. Filed June 4, 1920. Serial No. 386,594. 4 Claims. (Cl. 306—42.)

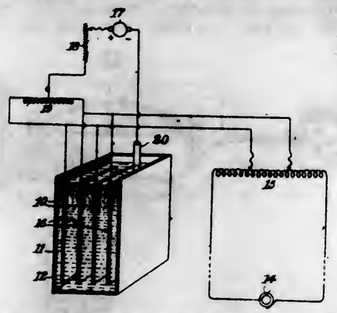


1. A pick including a one-piece head having a longitudinal bore terminating at one end of the head in an outwardly flared angular recess, a pick-point having a tapered shank corresponding to and adapted to fit into the recess, said shank including a hook to extend into the said bore inward from the recess, said hook lying nearest one of the walls of the bore, a locking bar lying in and having a diameter less than that of the said bore and having a hook to lie opposite and engage the said hook of the shank, means at one side of the bar to positively move its hook into engagement with the shank-hook, and a device placed under tension by the bar in the movement thereof to engage the hook, the same adapted to separate the two said hooks when said means is actuated to release the bar.

1,388,873. MANUFACTURE OF CEREAL FOOD. EUGENE HENRY MCKAY, Battle Creek, Mich., assignor to Kellogg Toasted Corn Flake Co., Battle Creek, Mich., a Corporation of Michigan. Filed June 28, 1919. Serial No. 307,447. 6 Claims. (Cl. 99—10.)

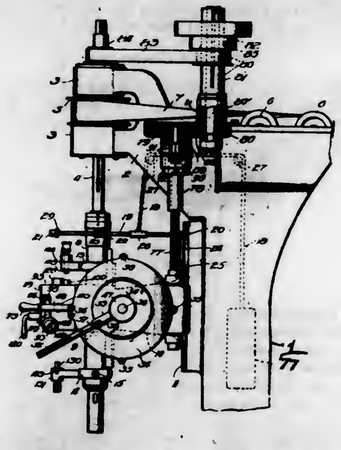
1. The improvement in the process of producing cooked cereal foods by cooking, drying and forming the cereal particles which consists in impregnating the cereal particles with steam after cooking and drying and before forming.

1,388,874. FORMING DIELECTRIC FILMS. RALPH D. MERSHON, New York, N. Y. Filed Feb. 18, 1920. Serial No. 359,573. 11 Claims. (Cl. 175—315.)



1. In the art of forming dielectric films of the kind described, the improvement comprising impressing upon the electrodes immersed in a suitable electrolyte both direct and alternating voltages of such relative values as to prevent reversal of the film stress.

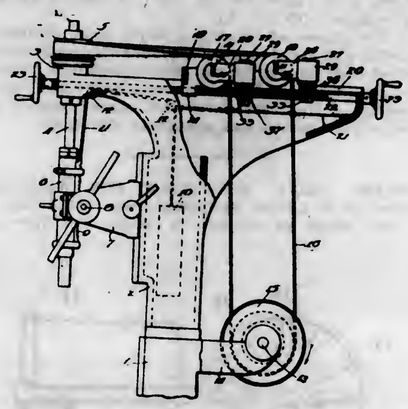
1,388,875. FEED MECHANISM FOR DRILLING-MACHINES. JAMES F. MERRIELEES, Cincinnati, Ohio, assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed June 6, 1919. Serial No. 302,166. 24 Claims. (Cl. 77—33.)



1. In a drilling machine, the combination with the drill spindle and guiding head therefor, of power actuated feed mechanism for effecting the working stroke of said spindle, a controlling clutch for said feed mechanism, a shifter actuated by a spring to engage said clutch, latches for respectively holding said clutch engaged and said shifter retracted, and trips connected to said spindle for retracting said shifter independently of said clutch and for tripping said latches.

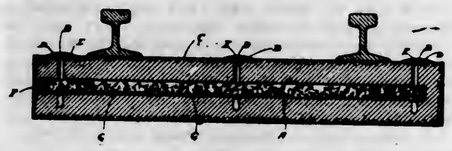
1,388,876. BELT-DRIVE MECHANISM FOR DRILLING-MACHINES AND THE LIKE. JAMES F. MERRIELEES, Cincinnati, Ohio, assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Sept. 2, 1919. Serial No. 321,095. 12 Claims. (Cl. 64—5.)

1. A belt driving mechanism for drilling machines, comprising a longitudinal driving shaft, a vertical spindle shaft, pulleys on said shafts, a flat quarter-turn belt connecting said pulleys, a horizontally adjustable carriage, vertical studs fixed thereto, delivery and return idlers having flanges for engaging the edges of the belt and



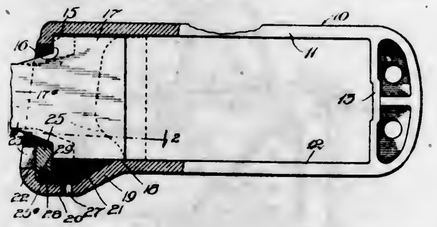
supporting brackets for said idlers pivoted on said studs and yieldingly held in position, whereby said idlers follow all lateral movements of the belt, substantially as described.

1,388,877. PROCESS OF PRESERVING WOOD. STUART B. MOORE, Houston, Tex. Filed July 6, 1920. Serial No. 394,164. 4 Claims. (Cl. 99—12.)



1. The process of treating wood, which consists of forming a central reservoir therein, penetrating the fibers of the wood with a fungicide, sealing the entrance to said reservoir, and then impregnating the wood with a cementing mixture.

1,388,878. DRAFT-GEAR YOKE. GEORGE C. MURRAY, Chicago, Ill. Filed Dec. 11, 1919. Serial No. 344,004. 7 Claims. (Cl. 213—42.)



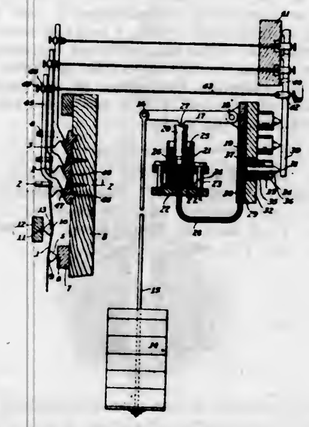
1. The combination with a yoke having upper and lower arms and a hooded forward end, of a drawbar having a shouldered butt adapted to be received within said hooded end, means carried by one of said arms to engage one shoulder of said butt, a movable block mounted adjacent the other arm and adapted to be tilted upwardly and forwardly about its lower edge into a position to engage the other shoulder of said butt, and means passing through said block and through the walls of said hooded ends to prevent a reverse tilting movement of said block.

1,388,879. GAS-OPERATED FIREARM. CHARLES A. NELSON, Utica, N. Y., assignor to Savage Arms Corporation, a Corporation of Delaware. Filed Sept. 21, 1918. Serial No. 255,058. 6 Claims. (Cl. 42—3.)



1. In gas operated fire arms, a gas connection between the mussle and gas cylinder including two fittings one of which is connected to the cylinder and encircles the mussle and the other of which in itself forms a gas-tight connection between the first fitting and the mussle.

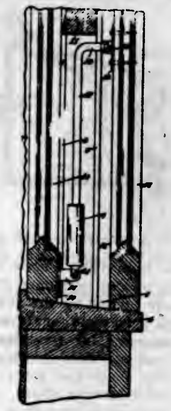
1,388,880. STRINGED MUSICAL INSTRUMENT. ALEXANDER J. OSTRANDER, Lyons, N. Y. Filed Jan. 26, 1918, Serial No. 213,992. Renewed Feb. 17, 1921. Serial No. 445,851. 8 Claims. (Cl. 84—67.)



1. A stringed musical instrument comprising a plurality of differently tensioned strings and interrelated connections between the strings for maintaining them under tension, said connections having provision for changing the tension of all of the strings simultaneously a like per cent.

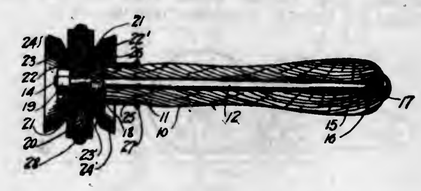
1,388,881. STORM-SASH HOLDER. ARTHUR W. PALM, Minneapolis, Minn. Filed Feb. 11, 1921. Serial No. 444,271. 2 Claims. (Cl. 20—55.)

1. In combination with a vertically slidable window sash and a storm sash adapted to be swung outwardly therefrom, a cylinder pivotally connected to one of the sashes, a piston slidably mounted in the cylinder, two springs in said cylinder, one on each side of the piston,



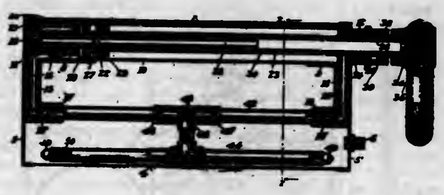
and a connecting rod having said piston at one end and pivotally secured at the other end to the other sash.

1,388,882. BLADE-SHARPENER. ADOLF PAUL, Brooklyn, N. Y. Filed Sept. 29, 1920. Serial No. 413,572. 7 Claims. (Cl. 51—210.)



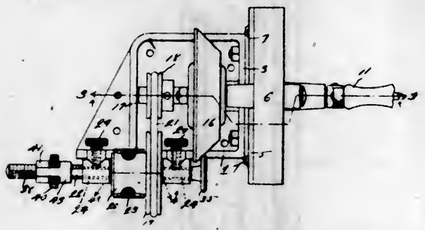
1. A blade sharpener comprising a manually operable handle, a rod rotatably journaled therein, an abrading disk fixed on said rod and conical guides clamped on each side of said disk, said rod, disk and guides being rotated by frictional contact with a surface over which the sharpener is passed.

1,388,883. FIRE-EXTINGUISHER. GEORGE T. PEARSONS, New York, N. Y. Filed Sept. 27, 1916. Serial No. 122,324. 19 Claims. (Cl. 299—98.)



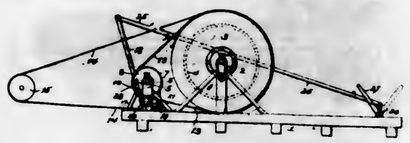
1. In a syringe the combination of a reservoir; a piston cylinder therein; a piston to reciprocate in said cylinder; a hollow piston rod, said rod and piston being arranged to discharge the liquid from the piston cylinder at opposite sides of the piston into the piston rod; a tube in the piston rod through which to discharge the liquid from the piston rod; and a chamber to which the tube is connected having an outlet to the exterior of the reservoir for the purpose specified.

1,388,884. VALVE-GRINDING MACHINE. HARRY E. PECK, Waverly, N. Y. Filed Sept. 30, 1920. Serial No. 413,813. 2 Claims. (Cl. 51—105.)



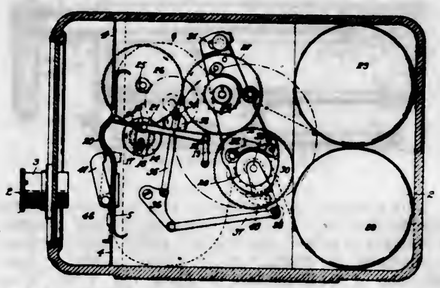
1. A valve grinder comprising a main drive shaft having an operating handle and an auxiliary drive shaft, a beveled grinding element carried by the auxiliary shaft, gear connections between the main shaft and the auxiliary shaft, adjustable bearings for receiving and supporting rotatably a valve and its stem, a chuck adapted to be received by the valve shaft and rotate with said valve shaft, a pulley carried by the chuck, said pulley being belted to a pulley carried by the main shaft und spring means for imparting a longitudinal movement on the valve and its valve stem during a grinding operation for maintaining the valve in grinding engagement with the grinding element.

1,388,885. DRIVING AND CONTROLLING THE OPERATION OF REELS. LEWIS PIERDUN and JOSEPH P. BURKE, Sand Springs, Okla. Filed Nov. 24, 1920. Serial No. 426,151. 3 Claims. (Cl. 192—17.)



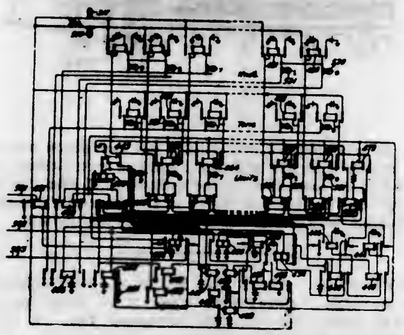
1. The combination with a reel, a pulley for rotating the same, a belt wheel, and means for driving the latter, of a belt passing over said belt wheel and pulley, a belt tightener for said belt, a clutch for operatively connecting said pulley with the reel and disconnecting it therefrom, and a brake for said reel, of manually operable controlling means common to said belt-tightener, clutch and brake.

1,388,886. MOTION-PICTURE-FILM-FEEDING DEVICE. REINHART W. PITTMAN, New York, N. Y. Filed Sept. 3, 1920. Serial No. 407,889. 11 Claims. (Cl. 88—18.4.)



8. In a motion picture film camera, a film guide arranged to provide a cylindrically shaped passage for the film, a movable feed member, and means arranged to guide and move the feed member to engage the apertured film margins at said cylindrical passage in a direction substantially perpendicular to the film when it enters the film apertures, and to have a movement at the film-engaging portion that substantially coincides with the film path of movement, whereby the film-engaging portion of the member is not moved relatively to the film during such advance feed movement.

1,388,887. INDICATING SYSTEM. LIPA POLINKOWSKY, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 1, 1919. Serial No. 334,922. 9 Claims. (Cl. 179—27.)



1. In a telephone system, selective switches for extending telephone connections, a controlling mechanism comprising a plurality of registers, means for positioning said registers, means for operating certain of said positioned registers for controlling the operation of said switches, a plurality of indicating devices, a series of relays, means for operating the remaining positioned registers of said mechanism, means controlled by the operation of such registers for operating the relays of said series, and means under the control of said relays for variable selecting said indicating devices.

1,388,888. MANUFACTURE OF PASTEBOARD CASES AND MEANS THEREFOR. PIERRE POMÉON, JOSEPH POMÉON, and ANTOINE LÉON POMÉON, St. Chamond, France. Filed Mar. 4, 1919. Serial No. 280,578. 6 Claims. (Cl. 113—49.)

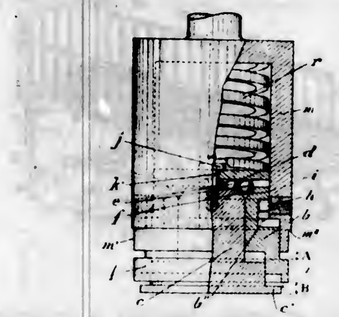


1. In an apparatus for the purpose described, the combination of a mold having an annular groove in its inner face, a mandrel or plunger comprising a tubular member, adapted to enter the mouth of the mold, a piston like member adjustably connected with the tubular member and arranged to extend through the end thereof that cooperates with the mold, and means acting to maintain the piston in projected relation to the tubular member and to permit the piston to be forced into said tubular member during the pressing operation, for the purpose specified.

1,388,889. MOLDING-PRESS. PIERRE POMÉON, JOSEPH POMÉON, and ANTOINE LÉON POMÉON, St. Chamond, France. Filed Dec. 26, 1919. Serial No. 347,416. 2 Claims. (Cl. 113—49.)

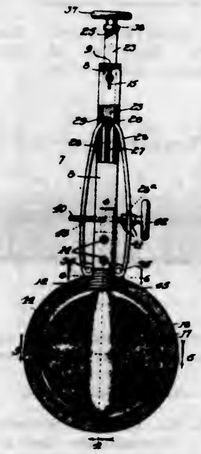
1. In a molding or swaging press the combination of a matrix, and a plunger adapted to enter said matrix, the

said plunger comprising a shell having an orifice, a piston-like member which is guided in said shell and has an enlargement outside said orifice, and elastic means in said shell acting to maintain said piston in projected relation



to said shell with a gap between said enlargement and the rim of said orifice, and permitting said enlargement to be forced toward said rim during the pressing operation, for the purpose specified.

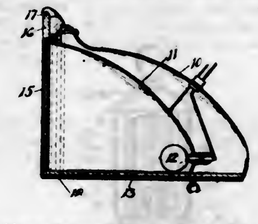
1,388,890. STOPPER. MICHAEL PROVICH, Chicago, Ill. Filed Dec. 20, 1919. Serial No. 346,260. 40 Claims. (Cl. 137—76.)



1. A device for the purpose set forth, comprising, in combination, a bag-diaphragm containing an opening and equipped at its open end with a hollow member adapted to be secured in the tap-hole of a pipe, and means for causing said bag to be forced into tight-joint-forming condition relative to the inner wall of the pipe.

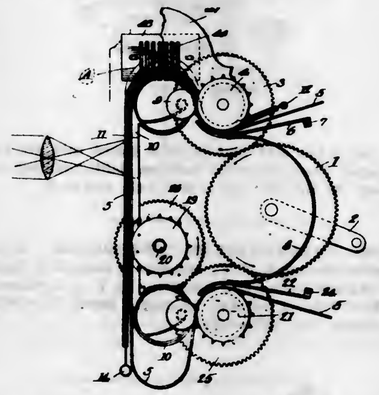
1,388,891. HEADLIGHT FOR VEHICLES. VITO A. QUAGLIANO, East Boston, Mass. Filed June 16, 1920. Serial No. 389,296. 3 Claims. (Cl. 40—132.)

1. A headlight for automobiles or the like comprising a housing having its front and lower sides open, a reflector within said housing and also having its front and lower sides open, a lamp within said reflector, a sheet of material arranged simultaneously to close the lower sides of said housing and reflector, a sheet of light transmitting material for closing the front of the housing, said sheet



having a cruciform figure of distinctive color thereon, and means for hingedly supporting said latter sheet upon the housing.

1,388,892. MOVING-PICTURE CAMERA. GEORGE RAMSEY, Washington, D. C. Filed July 7, 1917. Serial No. 179,189. 34 Claims. (Cl. 88—18.)

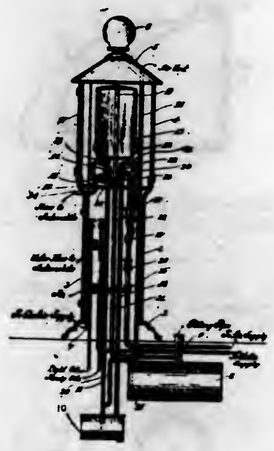


1. In a moving picture instrument, an intermittent feed comprising in combination, means to hold a portion of film stationary, devices for feeding another portion of film to form a loop to store up energy capable of pushing forward the stationary portion of the film, mechanism for storing up energy capable of pulling forward the stationary portion of the film, and means for releasing the stationary portion of the film and permitting the stored up energy to move the portion of the film that was held stationary.

1,388,893. SERVICE STATION. SAMUEL W. RAYMOND, Adrian, Mich. Filed July 9, 1917. Serial No. 179,351. 1 Claim. (Cl. 221—99.)

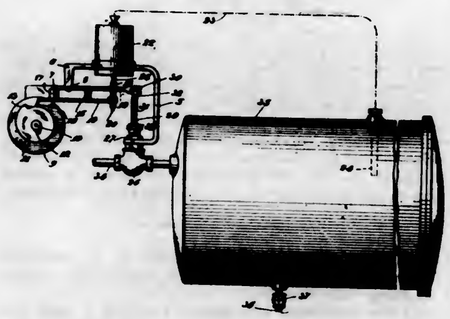
In a fuel dispensing apparatus, a reservoir, a main fuel tank provided with an air vent pipe, an overflow pipe for said reservoir and having a side opening communicating with said reservoir, said overflow pipe having its upper end extending out of the reservoir and open to the atmosphere and its lower end communicating with said main fuel tank, an auxiliary fuel tank at a level below said main fuel tank and separate therefrom, a pipe extending from the bottom of said auxiliary fuel tank to the bottom of said reservoir, a fuel valve carried by said pipe, a siphonic connection between said main fuel tank and said pipe so that the fuel may be siphoned from said main tank into said auxiliary fuel tank, an air supply pipe adapted to communicate with said aux...ary fuel tank, an air valve carried by said air supply pipe adapted to either admit air to said auxiliary fuel tank or place said tank in communication with the atmosphere, and a connection between said air valve and said fuel valve so that said valves

may be operated in synchronism, said valves being arranged so that when air pressure is in said auxiliary fuel tank said reservoir communicates with said auxiliary fuel



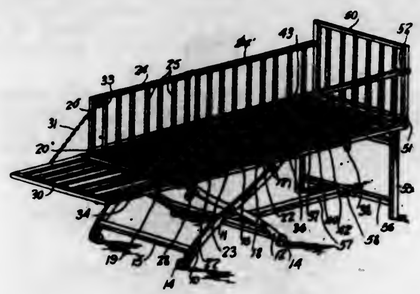
tank, and when said fuel valve is closed said air valve establishes communication between said auxiliary fuel tank and the air vent pipe of said main fuel tank.

1,388,894. TEMPERATURE-CONTROLLER. ALFRED ROESCH, Brooklyn, N. Y., assignor to Charles J. Tagliabue Manufacturing Co., Brooklyn, N. Y., a Corporation of New York. Filed Aug. 28, 1920. Serial No. 406,738. 3 Claims. (Cl. 236—46.)



1. The combination of a valve casing, a valve therein, a bracket carried by said casing, a main lever pivotally mounted on said bracket and connected directly with said valve, a clock work carried by said main lever, a cam mounted on said clock work and operated thereby, a secondary lever pivotally mounted on said main lever and engaging said cam, a spring located between and engaging said levers for moving said secondary lever relatively to said main lever, an adjusting screw carried by said secondary lever, a series of connected bellows mounted upon said bracket, a rod projecting from said bellows in alinement with said adjusting screw, a temperature sensitive bulb connected with said bellows and a spring tending to move said valve toward its open position and to pivotally swing said levers, clock work and cam as a unit.

1,388,895. CONVERTIBLE ARTICLE OF FURNITURE. Rocco Russo, New York, N. Y. Filed Jan. 25, 1921. Serial No. 439,715. 2 Claims. (Cl. 155—44.)



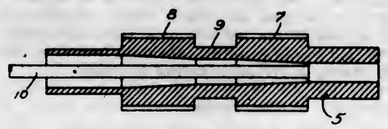
1. An article of furniture comprising in combination two pairs of crossed legs pivoted at their intersection, a platform having one set of said legs pivotally engaged thereto, the other set of legs being in slidable contact with said platform and means to prevent further movement when extended, side elements hinged at the side of said platform, elements comprising an extensible back hingd at the rear of said platform, means for holding said elements wuen in either a horizontal or vertical position, a front element hinged to said platform and means for supporting said front element in vertical or horizontal position.

1,388,896. CAR CONSTRUCTION. RALPH V. SAGE, Philadelphia, Pa. Filed Dec. 18, 1919. Serial No. 345,716. 10 Claims. (Cl. 10—406.)



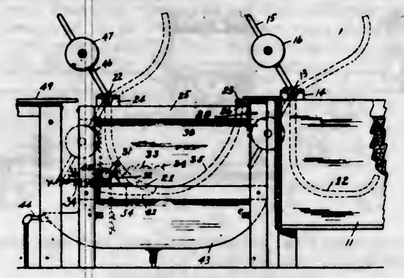
1. A car underframe, a transversely corrugated plate supported thereby, and a flat plate extending over the corrugated plate.

1,388,897. GEARING. HENRY F. SCHMIDT, Wilkinsburg, Pa., assignor to Westinghouse Gear & Dynamometer Company, a Corporation of Pennsylvania. Filed Apr. 24, 1918. Serial No. 230,450. 10 Claims. (Cl. 74—7.)



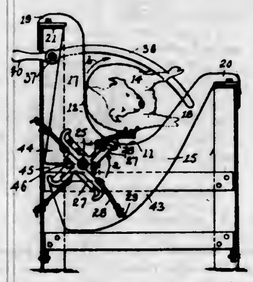
1. A tubular gear having a power connection portion and another portion adapted to be free of the driving connection and the mass of said last portion being so disposed that the moment of inertia decreases gradually outwardly from the connection portion whereby the gear may deflect uniformly per unit of length.

1,388,898. CARCASS DEHAIRING AND CLEANING MACHINE. CHARLES G. SCHMIDT and OSCAR C. SCHMIDT, Cincinnati, Ohio, assignors to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Continuation of application Serial No. 100,839, filed May 31, 1916. This application filed Dec. 17, 1917. Serial No. 207,581. 32 Claims. (Cl. 17—11.)



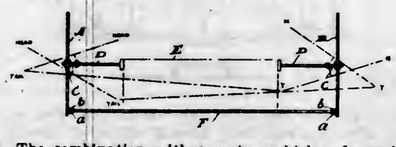
1. In a hog-scraper, a rigid pocket-shaped grate adapted to receive and to hold a carcass, hair-removing devices operating in said grate, and means to support this grate in a manner permitting it to be bodily canted in its entirety to effect discharge of the carcass.

1,388,899. CARCASS DEHAIRING AND CLEANING MACHINE. OSCAR C. SCHMIDT, Cincinnati, Ohio, assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio, a Corporation of Ohio. Continuation of application Serial No. 121,671, filed Sept. 22, 1916. This application filed Dec. 17, 1917. Serial No. 207,582. 56 Claims. (Cl. 17—11.)



1. In a hog-scraper, the combination of hair-removing means, and stationary means to support a carcass while these hair-removing means act upon the carcass so as to remove the hair therefrom, said stationary means being so constructed that contact with them by the carcass as produced by the impact with the same of the hair removing means imparts also an endwise movement to the carcass past said hair-removing means.

1,388,900. TRAFFIC-SIGNAL FOR AUTOMOBILES. LOUIS CORNELIOUS SCHRAG, Kitchener, Ontario, Canada. Filed May 13, 1921. Serial No. 469,165. 2 Claims. (Cl. 116—51.)



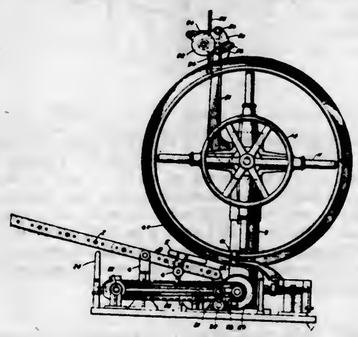
1. The combination with a motor vehicle, of a pair of pointers located one at each side of said vehicle; an arm for each of said pointers on which the same has vertical movement; a bracket for each of the said arms to permit the same to have horizontal movement, said brackets adapted to be carried by said vehicle, and means having hinged-connection with each of the said pointers near the tail ends thereof, whereby the same are substantially simultaneously moved.

1,388,901. RAILWAY-CAR CONSTRUCTION. VINTON E. SISSON, Chicago, Ill., assignor to Walter P. Murphy, Chicago, Ill. Filed Nov. 21, 1917. Serial No. 203,132. 15 Claims. (Cl. 105—410.)



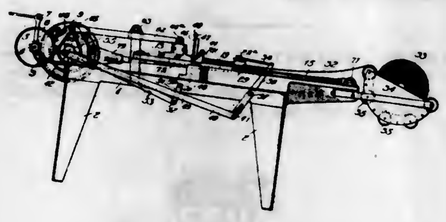
9. A railway car wall structure comprising a sheet metal panel having vertical corrugations extending to the upper edge thereof and an angular end plate having a flat portion overlapping the upper edge of the panel on the outside thereof, said edge being seated in the angular space provided by said end plate and being secured to said plate.

1,388,902. MOTOR-TIRE-APPLYING APPARATUS. WILLIAM C. STEVENS, Summit county, and CHARLES W. STEELE, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed July 5, 1917. Serial No. 178,837. 22 Claims. (Cl. 18—11.)



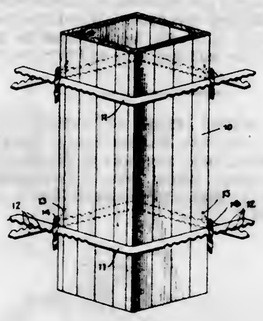
1. A machine for applying cushion tires to rims comprising a holder for supporting and revolving a rim, a guide way for the cushion tire, a roller adjacent the end of the guideway and the rim and means for moving the roller toward said rim to raise the tire and apply pressure thereon.

1,388,903. TUBE-MAKING MACHINE. FRANK H. STOLP, Geneva, N. Y., assignor to Stolp Co., Inc., Geneva, N. Y., a Corporation of New York. Filed Dec. 18, 1919. Serial No. 345,795. 5 Claims. (Cl. 113—33.)



1. In a tube forming machine, the combination with a bed, a guideway provided with tube forming dies and a mandrel operating in the guideway and provided with a shoulder to engage the end of the blank and thrust it through the dies, of a work guide extending longitudinally of the die guide and communicating therewith, means for feeding the blank therethrough and means for thrusting a blank from the work guide into the die guide between the dies and the mandrel.

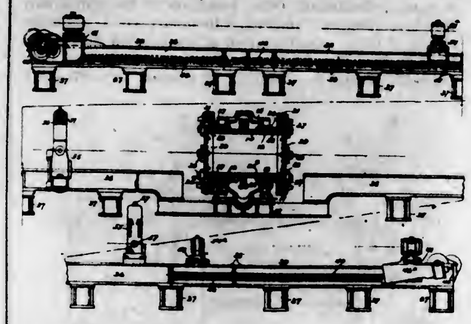
1,388,904. CONCRETE-MOLD CONSTRUCTION. GUSTAV SWENSON, New York, N. Y., assignor to George Peterson, New York, N. Y. Filed Mar. 16, 1921. Serial No. 452,680. 7 Claims. (Cl. 144—291.)



1. In a construction of the class described, in combination, a plurality of mold forming members, a plurality of retaining members, a series of seats on each of said retaining members, a tie member having one end adapted to engage a seat on one of said members and having the other end in the form of a seat, a tapered key coöperating with said seat on said tie member and a seat on one of said retaining members to hold the two of said retaining members together.

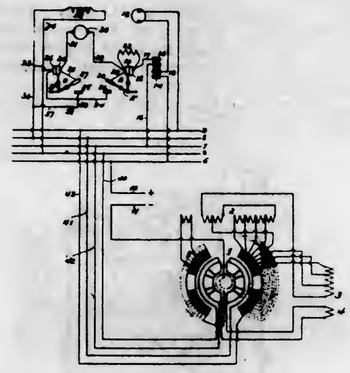
1,388,905. BORING-LATHE. CLARENCE L. TAYLOR, Alliance, Ohio, assignor to The Morgan Engineering Company, Alliance, Ohio. Filed May 29, 1919. Serial No. 300,599. 7 Claims. (Cl. 77—3.)

1. In a lathe, the combination of a headstock, a cylinder therein and carrying clamping mechanism to engage the work, a motor and gearing for rotating the cylinder, carriage ways at opposite sides of the headstock, a carriage on each of said ways, a rack on each side member of the ways, a motor on each carriage, gearing actuated by said



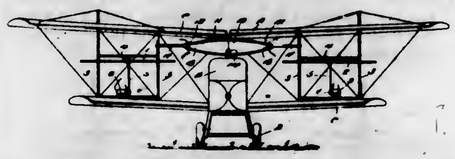
carriage motors and meshing with said rack bars and a tool holder on each carriage.

1,388,906. ELECTRIC-MOTOR-CONTROL SYSTEM. HARRY A. WACKERLY, Alliance, Ohio, assignor to The Morgan Engineering Company, Alliance, Ohio. Filed July 21, 1920. Serial No. 397,820. 4 Claims. (Cl. 172—152.)



1. In a motor control system, the combination with an electric motor, circuits therefor, and controlling means for said circuits, of a limit switch, motor operated means for shifting said switch to short circuit the motor armature, and electrically controlled means for resetting said switch when the controlling means are operated to reverse the current in the armature circuit.

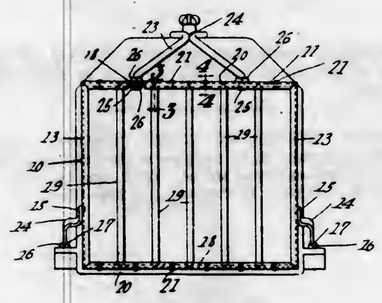
1,388,907. AIRPLANE-STABILIZER. THURLOW E. WEIBLE, Chicago, Ill. Filed Apr. 26, 1918. Serial No. 230,969. 1 Claim. (Cl. 244—29.)



In an airplane stabilizer, the combination, with a plurality of planes and their bracing struts, of an aileron hingedly connected to the struts upon each side of the fuselage of an airplane, and intermediate the planes

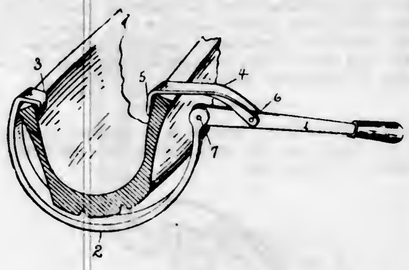
thereof, a substantially oval-shaped housing carried by the airplane intermediate the tips of the plane, spaced contacts carried at each end of said oval housing, electrically operated means connected to said contact for operating said ailerons upon the bridging of any pair of the contacts, and means within said housing movable toward the low side of the airplane when it tilts to bridge the contacts at the low end of the housing for operating the ailerons connected thereto, and springs connected to the ailerons and to the airplane, for returning the ailerons to their normal position upon the breaking of an electric circuit through the aileron operated means.

1,388,908. RADIATOR-GUARD. ROBERT H. WILSON, Indianapolis, Ind. Filed Mar. 8, 1920. Serial No. 363,960. 4 Claims. (Cl. 180—68.)



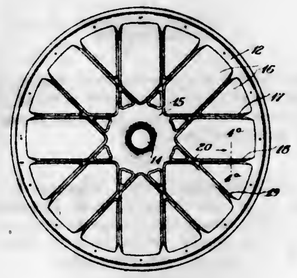
1. A guard for radiators comprising a frame having longitudinal flanges upon the top and bottom portions thereof, strips detachably secured to the top and bottom portions of the frame and bearing against the flanges, bars interposed between the strips, fastening means extending through the strips and into the bars, said fastening means being held against detachment by the top and bottom portions of the frame, means for securing the side portions of the frame to the chassis of a vehicle, and means fixedly connected to the top portion of the frame for attaching it to the neck of the radiator.

1,388,909. TIRE-OPENER. DONALD C. WOODWORTH, Auburn, Me. Filed Apr. 5, 1918. Serial No. 226,953. 5 Claims. (Cl. 152—27.)



5. In a tire spreader, a bow-shaped member having a jaw at one end and a handle pivotally attached to the other end, a second member terminating in a jaw pivotally secured to the handle, the bow-shaped member being adapted to pass around the tread of the tire, with the jaw at one end thereof engaging one edge of the tire, the second jaw engaging the other edge of the tire in a manner whereby neither member obstructs the opening in the tire.

1,388,910. METAL WHEEL. GEORGE E. WORTH, Rochester, N. Y. Filed Mar. 5, 1920. Serial No. 363,368. 6 Claims. (Cl. 301—64.)



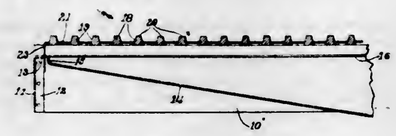
1. A metal wheel comprising a pair of sheet metal disks each stamped to form a plurality of integral spokes adjacent ones of which are integrally connected with each other at a point spaced from the extremities thereof and extend tangentially of the wheel hub on opposite sides thereof to increase the torsional strength, said disks being connected with each other adjacent their peripheries, tread supporting means on the peripheries of said disks, and a connection between said disks adjacent their hubs.

1,388,911. WINDSHIELD-WIPER. JOHN T. ALLMAND, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 20, 1919. Serial No. 331,875. 3 Claims. (Cl. 287—53.)



2. An assembly for the purpose specified, comprising a rod having a bearing portion, means rotatably supporting the last-mentioned portion of the rod, the end of the rod being polygonal and having its extreme end screw-threaded, a lever arm having at one end a permanently attached clamp in the form of a pair of half tubes each secured permanently to the lever arm, means for drawing the free end of the clamp portions toward each other upon the polygonal portion of the rod, and a nut engaging the threads on the end of the rod for holding the clamp in position.

1,388,912. STRAW-RACK. EMIL F. ANDERSON, Chicago, Ill., assignor to International Harvester Company, a Corporation of New Jersey. Filed June 25, 1919. Serial No. 306,578. 7 Claims. (Cl. 130—26.)



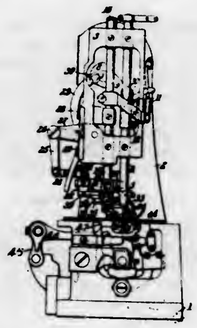
1. In a straw walker, a casing, a plurality of cross slats carried thereby, and a plurality of longitudinally removable members carried by said cross slats, and said members having angularly disposed portions to prevent their longitudinal displacement.

1,388,913. SPRING. HOLLIS B. BAGG, Watertown, Conn., assignor to Scovill Manufacturing Co., Waterbury, Conn., a Corporation of Connecticut. Filed Aug. 26, 1919. Serial No. 319,918. 4 Claims. (Cl. 267—1.)



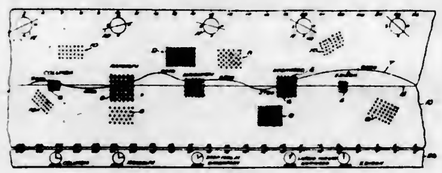
1. A spiral spring of the motor type formed of a long, narrow, coiled band slightly concaved in cross section on at least one face, said concavity extending across at least the greater portion of the face.

1,388,914. SEWING-MACHINE. WILLIAM L. BARRON, New York, N. Y., and FRITZ E. OSOL, Elizabeth, N. J., assignors to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Nov. 23, 1915. Serial No. 62,951. 13 Claims. (Cl. 112—100.)



1. In stitch-forming mechanism, the combination with a needle and means for reciprocating the same, of a presser-bar, a reciprocating member adapted for movement upon said presser-bar, a thread-carrying implement and a spreader, one of which is mounted on the presser-bar and the other upon the reciprocating member, means including said reciprocating member for imparting movements to said thread-carrying implement, and a connection between said reciprocating member and said spreader for actuating the latter.

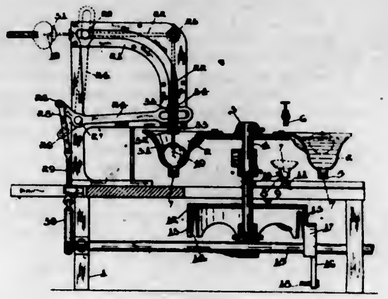
1,388,915. AERIAL-PHOTOGRAPH MAP. DAVID L. BEHNCKE, Chicago, Ill. Filed Apr. 19, 1919. Serial No. 291,262. 5 Claims. (Cl. 35—6.)



1. An aerial route map comprising a scroll having thereon photographic reproductions of portions of the earth's surface along a predetermined route, a flight line extending longitudinally of the scroll and along the photographic reproductions thereon, and an altitude line in coöperative relation with the flight line.

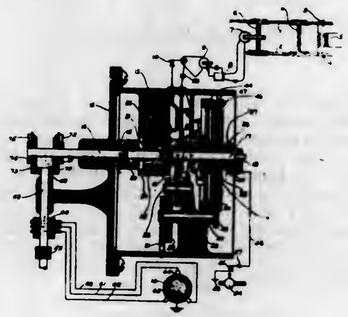
1,388,916. APPLE-FEEDING DEVICE. CHARLES A. RIGGS, Regina, Saskatchewan, Canada. Filed Mar. 9, 1921. Serial No. 451,024. 8 Claims. (Cl. 146—8.)

1. In an apple feeding machine, the combination of a positioning cup adapted to contain a single apple; and means for temporarily floating the apple in liquid in said cup to cause it to assume a position with its core axis



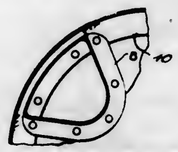
substantially vertical and thereafter lowering the liquid level in the cup to cause the apple to be supported by the cup.

1,388,917. SYSTEM OF SPEED CONTROL. ELI J. BLAKE, Buffalo, N. Y., assignor to Hall Switch & Signal Co., a Corporation of Maine. Filed June 14, 1919. Serial No. 304,293. 17 Claims. (Cl. 246—182.)



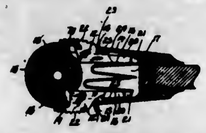
17. In a speed controlling device for railway vehicles a revolving member driven at a speed proportional to the speed of the vehicle from an axle of the vehicle, a mechanism driven thereby to determine when brakes should be applied in accordance with the speed of the revolving member and a brake system controlled by a closed electric circuit comprising synchronous commutating devices on the axle and the revolving members whereby their relative rotation is constantly checked.

1,388,918. TORPEDO. EDMUND S. R. BRANDT, Newport, R. I. Filed Apr. 16, 1921. Serial No. 462,046. 4 Claims. (Cl. 114—20.)



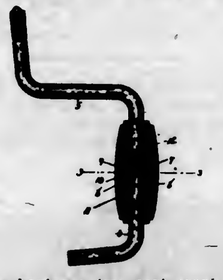
1. In a torpedo, in combination, exhaust trunks in which the outer shell of the torpedo forms one of the walls thereof.

1,388,919. RATCHET MECHANISM. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Aug. 13, 1920. Serial No. 403,197. 4 Claims. (Cl. 74—54.)



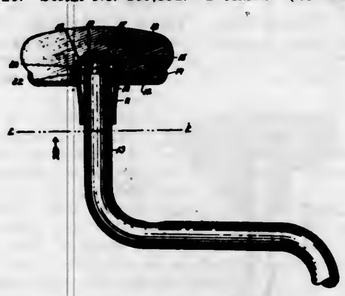
1. A ratchet-mechanism having a housing formed with complementary assembling-openings, a ratchet located in the said housing, and two complementary spring-actuated floating pawls entering the respective assembling-openings and each having rocking and longitudinal movement with respect to the ratchet with which they co-act.

1,388,920. BIT-BRACE. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,850. 2 Claims. (Cl. 145—66.)



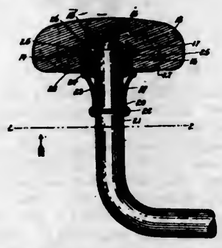
1. A bit-brace having a two part crank, the parts of which have their adjacent ends beveled and each formed with a semi-circumferential groove, a sleeve receiving at its opposite ends the beveled ends of the crank-parts and formed with an internal circumferential groove, and a resilient split ring adapted to lie partly in the groove of the sleeve and partly in the grooves of the beveled ends of the crank-parts, whereby the said parts and the sleeve are coupled together.

1,388,921. BRACE-HEAD. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,851. 1 Claim. (Cl. 145—66.)



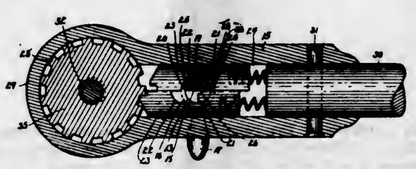
In a brace head, the combination with a one-piece, sheet-metal assembling-cup comprising a sleeve and an annular flange concentric therewith and offsetting therefrom at substantially a right angle thereto, of a body fastened to said flange and formed in its inner face with a concentric chamber, an inverted ball-cup located within the said chamber and resting upon the said flange by which it is held in place in the said chamber, a crank having its upper end entered into the said ball-cup and formed with a raceway antifriction balls interposed between the said ball-cup and raceway, and a race-ring formed independently of the assembling-cup and ball-cup and inserted within the open end of the latter for co-action with the said balls and for holding the crank in place within the ball-cup, the outer edge of the said race-ring resting upon the flange of the assembling-cup at the juncture of the said flange with the sleeve of the said cup.

1,388,922. BRACE-HEAD. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,853. 1 Claim. (Cl. 145—66.)



A brace head having a chambered body, a bearing-cup located in the chamber thereof and formed with a cone-bearing and a flaring assembling flange, a crank having a cone-shaped upper end which enters the said cone-bearing, a bushing located within the open end of the chamber in the body, an assembling-sleeve encircling the crank, entering the said bushing and formed at its upper end with a series of locking-fingers turned outwardly upon the flange of the cone-bearing for locking the parts together, and means for coupling the said sleeve with the crank with freedom for rotation thereupon.

1,388,923. RATCHET MECHANISM. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,854. 1 Claim. (Cl. 145—73.)



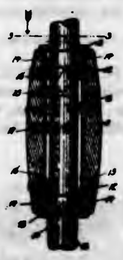
In a ratchet-mechanism, the combination with a ratchet-housing having a ratchet-chamber and a cylindrical pawl-chamber located at a right angle to the said ratchet-chamber, of a ratchet located in the ratchet-chamber, a pair of complementary semi-cylindrical pawls sliding one upon the other, having their flat contacting faces located in the plane of the axis of the ratchet and formed with opposed complementary cuts providing operating-shoulders, a shank having a bearing at its ends in the said housing and passing between the pawls in the plane of their contacting surfaces in position to co-act with the shoulders of their said cuts for the independent operation of the pawls, a grip applied to the lower end of the said shank for the rotation thereof, and springs located within the housing for the operation of the respective pawls, whereby the noses of the pawls substantially correspond in length to their diameter, and whereby any torsional strain upon the pawls is prevented.

1,388,924. BIT-BRACE HANDLE. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,856. 1 Claim. (Cl. 145—66.)



In a bit-brace, the combination with a crank, of a handle applied thereto, two complementary combined, one-piece, sheet-metal bushings and flaring ferrules applied to the respective ends of the handle and each shaped to produce at the juncture of its bushing and ferrule an integral raceway angularly disposed between them, two retaining-collars fastened to the crank at the opposite ends of the handle in position for the coaction of their inner faces with the said raceways of the combined bushings and ferrules, means for securing the said collars in place, and antifriction balls located in the channels formed by the said raceways, retaining-collars and crank.

1,388,925. BIT-BRACE HANDLE. EDWIN W. BULLARD Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,857. 1 Claim. (Cl. 145—66.)



In a bit-brace, the combination with a crank formed with circumferential combined raceways and positioning-grooves spaced apart, of a handle, a sheet-metal ferrule at each end thereof, a combined raceway and bushing inserted within each end of the handle, and having its outer end flared to engage with the adjacent ferrule, whereby the same is held in place, anti-friction rollers interposed between the said raceways and bushings, and a single sheet-metal positioning-sleeve located within the handle and turned inward at its respective ends to engage with the inner ends of the said rollers, whereby the sleeve co-acts with the said rollers to hold the said handle against longitudinal displacement.

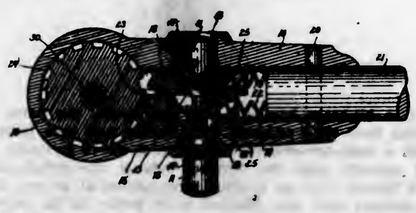
1,388,926. RATCHET MECHANISM. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,858. 6 Claims. (Cl. 145—73.)

2. A ratchet-mechanism having a ratchet, a housing therefor, a pair of semi-cylindrical, matched, longitudinally slidable, contacting, spring-actuated pawls, the flat inner faces of which are formed with primary shoulders notched to produce auxiliary shoulder, a rotary stem cut transversely to form two operating-corners respectively co-acting with the said primary shoulders of the pawls for the independent operation thereof, and the said operating-corners being flanked with grooves respectively co-acting with the said auxiliary shoulders of the pawls.



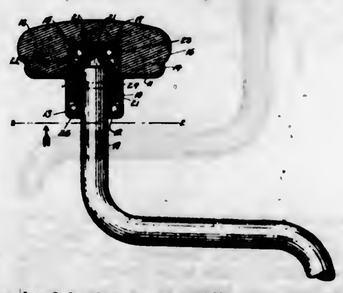
4. A ratchet-mechanism comprising a ratchet-housing, a ratchet, a pair of longitudinally slidable contacting pawls co-acting with the said ratchet, a semi-circular rack mounted in the said housing, a pinion engaged by the said rack, a stem turning with the pinion and co-acting directly with the said pawls for retracting the same independently of each other, and means mounted upon the said housing and connected with the said rack for operating the same to independently retract the pawls.

1,388,927. RATCHET MECHANISM. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Sept. 13, 1920. Serial No. 409,859. 6 Claims. (Cl. 145—73.)



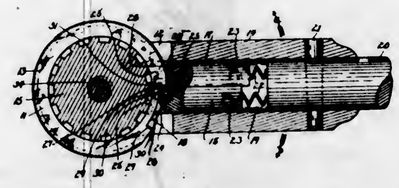
2. A ratchet-mechanism having a housing, a ratchet, a pair of complementary, longitudinally-slidable contacting pawls located in the said housing, and cam-slide mounted in the housing at a right angle to the axis thereof, passing through the said pawls and provided with complementary-cam surfaces for the operation thereof, and with complementary means for holding the same in their retracted positions.

1,388,928. BRACE-HEAD. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Oct. 4, 1920. Serial No. 414,540. 1 Claim. (Cl. 145—66.)



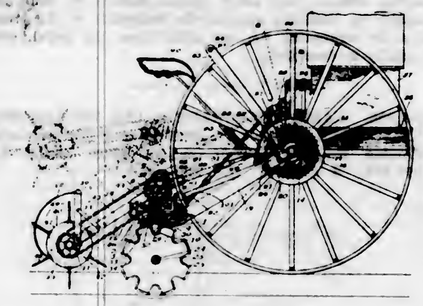
A brace head having an assembling-cup comprising a sleeve and a mounting-flange, a chambered head fastened to the said flange, a ball-cup inserted into the said head, from which it projects and which fits within the said sleeve, a brace crank, a ball cone fastened upon the upper end of the crank and formed at its ends with bearing faces, and antifriction balls located between the bottom of the ball-cup and the upper end of the cone and between the lower end of the cone and the bottom of the sleeve of the assembling-cup.

1,388,929. RATCHET MECHANISM. EDWIN W. BULLARD, Whitneyville, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Oct. 5, 1920. Serial No. 414,899. 5 Claims. (Cl. 74—54.)



1. A ratchet mechanism having a housing provided with a ratchet-sleeve having a transverse slot, a ratchet located in the said sleeve, two longitudinally-slidable contacting pawls located in the said housing and coacting with the said ratchet, and a pawl-operating ring located in the slot in the ratchet-sleeve and coacting with the nose ends of the pawls for disengaging one or the other of the same from the ratchet.

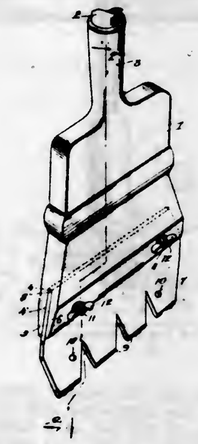
1,388,930. TILLAGE IMPLEMENT. EDWARD W. BUSSMAN, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed May 8, 1916. Serial No. 96,074. 9 Claims. (Cl. 97—89.)



1. In a tillage implement, in combination, a frame, tillage elements carried by said frame, draft members secured to said frame, a source of draft power including a rotatable axle having said draft members pivotally connected with opposite ends thereof, clutch elements mounted upon opposite ends of said axle and rotatable therewith, and coöperating clutch elements carried by said draft members and adapted to engage with said first clutch elements in a manner to turn said draft members about the axis of said axle.

1,388,931. COMBINED SCRAPER AND CHOPPER. ARTHUR CELLER, Brooklyn, N. Y., assignor of one-half to Thomas B. Oneill, Brooklyn, N. Y. Filed Mar. 13, 1920. Serial No. 365,524. 1 Claim. (Cl. 145—47.)

In a combined scraping and chopping tool, a heavy flat-headed member provided with a socket at one end for securing a handle thereto in alinement with the horizontal axis of said member, said member having shoulders formed at the juncture of the socket and head thereof, extension lips forming a blade receiving groove at the other end of said head, a double edged blade one edge being of the continual edge type to form a scraper and the other edge being notched or of the interrupted edge



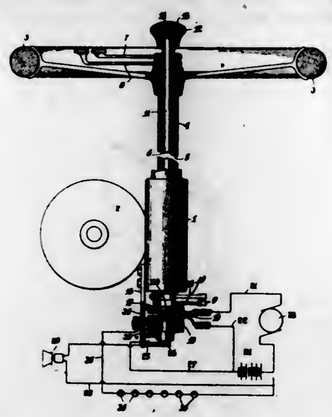
type to form a chopper either of said edges being formed to fit between said lips in alinement with said member and handle, means for clamping said blade between said lips said means comprising coöperating bolt holes provided in said lips and said blade edges, and removable bolts in said coöperating bolt holes whereby either edge of the blade may be secured to said lips.

1,388,932. AERIAL TORPEDO. HUGO CENTERVALL, Brooklyn, N. Y. Filed July 27, 1916. Serial No. 111,592. 6 Claims. (Cl. 244—1.)



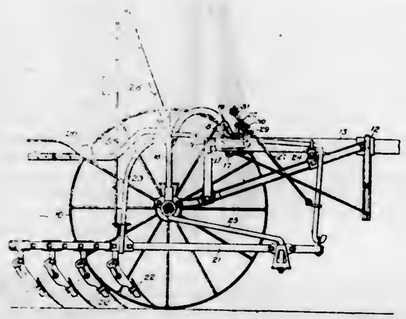
1. In an aerial torpedo the combination of a guiding device, an image-forming directing device adapted to be trained on the object to be attacked, and means controlled by said directing device for operating said guiding device to cause said guiding device to guide said torpedo back to the line of movement toward said object when deflected therefrom.

1,388,933. STARTER, LIGHTS, AND ALARM CONTROL DEVICE FOR AUTOMOBILES, &c. WILLIAM H. COLLIER, Sandusky, Ohio. Filed Apr. 23, 1917. Serial No. 163,801. 8 Claims. (Cl. 171—97.)



8. In a starter, and light-control device for automobiles and the like, the combination with the steering post of an automobile, or the like, of a control rod within that post adapted for both axial and rotary motion, two conductive disks, one mounted to be moved axially by and also to be rotated by said control rod, the other disk independently supported, said disks arranged to be brought into contact, one with the other, by axial motion of the rod, and to contact, one with the other, in various rotative positions of said rod, a starter motor and source of current supply therefor connected to said disks, that disk which is connected to move with the rod being provided also with a contact segment, a contact member adapted to make contact with such segment in one position of such disk, and a lighting-circuit connected to such last mentioned contact member, and, also, to the corresponding contact segment.

1,388,934. STRADDLE-ROW CULTIVATOR. SAMUEL K. DENNIS, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Apr. 30, 1915. Serial No. 24,946. 5 Claims. (Cl. 97—35.)



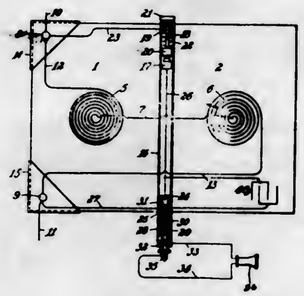
1. In a wheeled cultivator, a frame, cultivator means connected to the frame by laterally shiftable means including pendent members, a guiding member pivotally supported between its ends for lateral swinging movement on the frame, a pivot member on the forward end of the guiding member, and a yoke supported on said pivot member and having its branches slidably connected to said pendent members.

1,388,935. PEDAL-CAP. EDWARD S. DE TAMBLE, Chicago, Ill., assignor to Racine Accessories Manufacturing Co., Racine, Wis., a Corporation of Wisconsin. Filed Feb. 18, 1920. Serial No. 359,623. 4 Claims. (Cl. 74—81.)



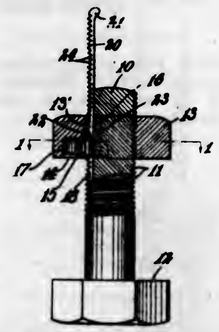
1. In combination with a pedal having an elongated tread plate arched from end to end, an attachment therefor comprising a cap plate shaped to closely overlie the tread plate and provided with a depending marginal flange adapted to surround the edges of the tread plate, the marginal flange being extended from the cap plate for a greater distance in the region of its side centers whereby the panel formed on the under side of the cap plate is relatively deep in the center and relatively shallow at its ends, a lug depending from near the center of each side of the cap plate, an inturned lip carried by each lug adapted to underlie the tread plate in spaced relation thereto, and screw means carried by said lips adapted for clamping against the underside of the tread plate for tightening the cap plate upon the pedal, substantially as described.

1,388,936. RADIO TELEGRAPHIC AND TELEPHONIC APPARATUS. HORACE ST. JOHN DE AULA DONISTHORPE, London, England. Filed Apr. 28, 1920. Serial No. 377,274. 4 Claims. (Cl. 250—14.)



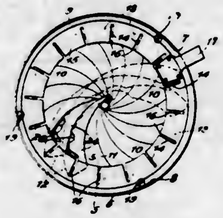
1. A wireless telephonic and telegraphic receiving set comprising in combination two book parts and a hollow hinge part with inductances, a detector, a condenser, telephone terminals, aerial and earth terminals and electrical connections contained therein, telephones and means for connecting the telephones in operative relationship to the receiving circuit.

1,388,937. NUT-LOCK. JÓZEF DZIKOSKI, Warrior Run, Pa. Filed Jan. 22, 1921. Serial No. 439,078. 3 Claims. (Cl. 151—12.)



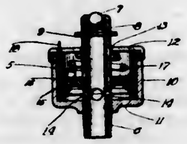
1. A releasing means for a nut-lock having a pawl carried by the nut and engaging in a groove in the bolt, consisting of a key adapted to fit into said groove and lift said pawl, said key having serrations on its outer face complementary to the threads of the bolt.

1,388,938. DISSOLVING SHUTTER FOR CAMERAS. HUGO ENDEAS, Lehighton, Pa. Filed May 19, 1920. Serial No. 382,498. 7 Claims. (Cl. 95—64.)



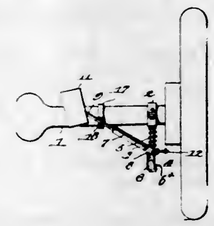
1. A dissolving shutter for cameras comprising a shutter frame, a plurality of vanes mounted in said frame, a shiftable actuating member to which said vanes are operatively connected, said vanes lapping upon each other and each having a part assuming a superposed relation to the corresponding part of an adjacent vane in the closing movement of said vanes to thereby effect a complete closure of the shutter opening.

1,388,939. LUBRICATING DEVICE. DOUGLAS F. FESLER, Evanston, Ill., assignor to The Bassick Manufacturing Company, Chicago, Ill., a Corporation of Delaware. Original application filed Nov. 18, 1918, Serial No. 262,930. Divided and this application filed Aug. 25, 1920. Serial No. 405,979. 5 Claims. (Cl. 184—45.)



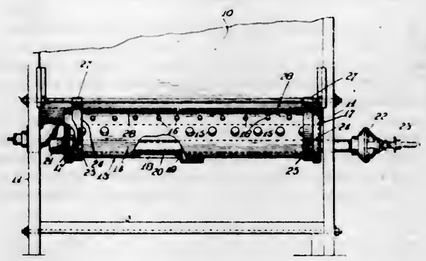
2. A lubricating device comprising a container, the opposite ends of which are provided with registering openings, a tube extending through said container and said openings, one end of said tube being provided with means for making a detachable connection with a lubricant compressor, the other end of said tube being provided with means for connecting said device with a bearing to be lubricated, the wall of said tube being provided with an opening adjacent the inner side of one end wall of said container, a plunger mounted in said container and means for urging said plunger toward said last-mentioned end wall.

1,388,940. AUTOMOBILE ATTACHMENT. JODA FINCH, Great Neck, N. Y. Filed Apr. 9, 1920. Serial No. 372,467. 1 Claim. (Cl. 188—4.)



In a device of the character described, the combination of a rod adapted to be secured to the axle of a vehicle, a collar thereon, a spring for moving said collar in one direction, an extensible arm pivoted to said collar, a block supported by said arm, guiding means for said arm, means for holding said arm in normal position, and means for moving said arm from normal position.

1,388,941. WASHING-MACHINE HEATER. ALVA J. FISHER, Evanston, Ill., assignor to Hurley Machine Company, Chicago, Ill., a Corporation of Illinois. Filed June 16, 1919. Serial No. 304,573. 10 Claims. (Cl. 126—350.)

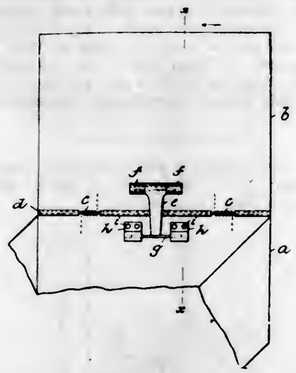


1. The combination of a washing machine frame having a casing and a supporting frame including end-members and parts inwardly projecting therefrom above the bottom level of the casing; a burner-shell having an orifice to conform to the bottom of the casing, and variable-tension hangers extending upwardly from engagement with the shell into engagement with said projecting parts of the frame to press the shell-orifice snugly against the casing-bottom.

1,388,942. DIP-TANK WITH AUTOMATIC COVER. FRANZ A. FULLER, Newark, N. J. Filed Mar. 6, 1919. Serial No. 280,981. 1 Claim. (Cl. 220—89.)

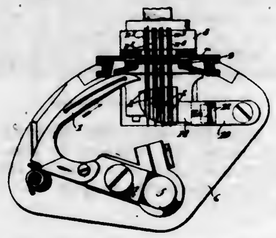
A device of the class described, comprising a tank, a spring actuated cover secured to said tank, a pivoted holding catch located on the inside of the cover, supporting means located on the inner rear wall of the tank, and a

fusible member loosely supported on said means and in engagement with the free end of said holding catch, said



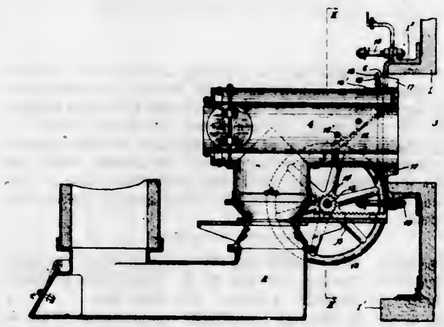
fusible member rendered inoperative by heat to release the catch and close the tank.

1,388,943. NEEDLE-GUARD FOR SEWING-MACHINES. GEORGE S. GATCHELL, Roselle Park, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Sept. 27, 1919. Serial No. 326,872. 9 Claims. (Cl. 112—227.)



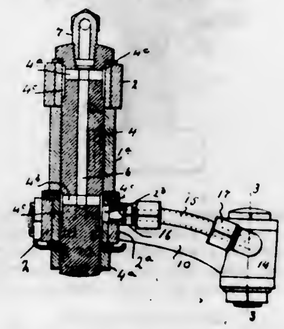
1. A needle-guard for sewing machines comprising, a guard-body formed with a needle-loop clearance groove and having spaced needle contacting surfaces at the mouth of said groove, said surfaces being spaced apart a distance less than the diameter of the needle.

1,388,944. METHOD OF AND MEANS FOR BURNING AIR AND GAS. WILBUR H. GEESMAN, Youngstown, and ARTHUR G. MCKEE, Cleveland, Ohio. Filed Oct. 31, 1917. Serial No. 199,504. 5 Claims. (Cl. 158—109.)



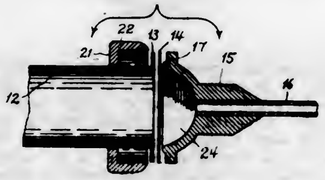
1. In means for burning gas and air, the combination of a stove; a gas nozzle adapted to discharge into the same; an air inlet to said stove surrounding the discharge end of said nozzle; means for imparting a whirling motion to the air; and means for imparting an opposite whirling motion to the gas, both of said whirling means terminating substantially in the plane at which the air and gas enter the stove.

1,388,945. MEANS FOR LUBRICATING STEERING-KNUCKLES OF VEHICLES. FREDERICK H. GLEASON, New York, N. Y. Filed Jan. 18, 1921. Serial No. 438,064. 6 Claims. (Cl. 64—27.)



2. The combination of an axle, a steering knuckle, a bolt pivotally connecting the same, an arm extending from the knuckle, a tie-rod, a bolt pivotally connecting the tie-rod and arm, said bolt having a bore and passages to supply lubricant to the bearings thereof, and a conduit communicating with said bore and with the bearings of the bolt of the tie-rod.

1,388,946. HYPODERMIC SYRINGE. LUELLA L. GOOLD, Arlington, Mass., assignor to Semi-Unit Corporation, Arlington, Mass., a Corporation of Massachusetts. Filed May 18, 1920. Serial No. 382,445. 5 Claims. (Cl. 128—216.)

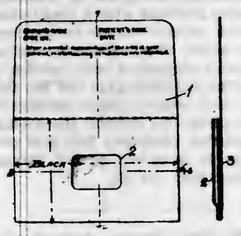


1. A hypodermic syringe comprising a collapsible tube, open at one end and having an annular outwardly projecting flange surrounding the open end, the opposite end of the tube being hermetically closed, a flexible and easily rupturable diaphragm seated at its marginal portion on said flange, and forming a closure for said open end, a rigid needle hub having an annular clamping face, seated on the marginal portion of said diaphragm, a hypodermic needle secured to said hub, and a coupling member having means exerting clamping pressure on the tube flange, and on the hub, to clamp the marginal portion of the diaphragm between said flange and the annular face of the hub.

1,388,947. COMBINATION DENTAL FILM-MOUNT AND DIAGNOSIS-SHEET. LOUIS N. HALPERN and LOUIS GOLDSTEIN, New York, N. Y. Filed Sept. 24, 1920. Serial No. 412,611. 4 Claims. (Cl. 40—159.)

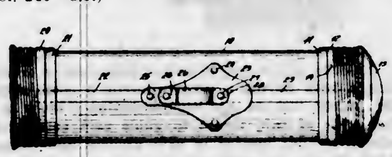
1. A container for a radiograph mount comprising a paper envelop constructed of opposed sheets united along their edges and having one edge open to provide a pocket

adapted to receive the said mount, registering apertures in the said sheets through which the radiograph may be



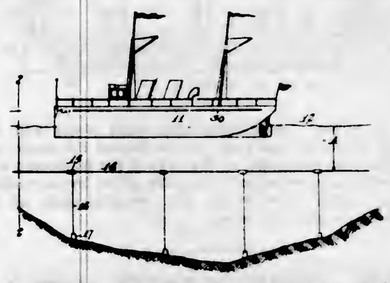
viewed, a flap for closing the said pocket and foldable along a line adjacent the entrance to the said pocket and of sufficient area to cover the said apertures.

1,388,948. HAND-LAMP. CARL HAMBUECHEN, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 27, 1917. Serial No. 164,833. 4 Claims. (Cl. 240—8.5.)



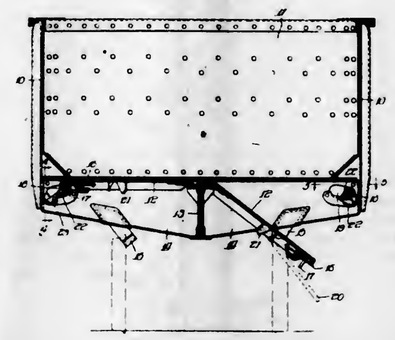
1. In a hand lamp, a tubular insulating casing having a battery chamber, a battery fitting closely within said chamber, a metallic cap on one end of the casing for retaining the battery in place thereon, said cap being electrically connected with on terminal of the battery, a metallic reflector at the other end of the casing, a lamp mounted in the reflector, and connected to the other terminal of the battery, and means for controlling the circuit through said lamp, said means comprising a conducting element movable into and out of engagement with the reflector, an actuating member for said conducting element, and a second conducting element mounted upon the exterior of said casing between said cap and said actuating member.

1,388,949. AUDIOFREQUENCY WIRELESS FOG-SIGNAL SYSTEM. EARL C. HANSON, Los Angeles, Calif., assignor to Title Insurance and Trust Company, a Corporation of California. Filed June 4, 1918. Serial No. 238,111. 6 Claims. (Cl. 178—43.)



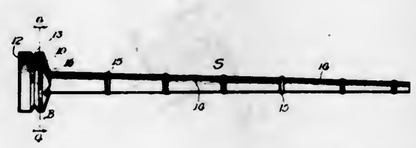
1. In a system of navigation, the combination of a submerged cable energized from an audio-frequency source and apparatus on shipboard comprising a collector of the field of force emanating from the cable, a vacuum tube amplifier associated with said collector, and means for observing the received energy.

1,388,950. DOOR-OPERATING MECHANISM. WILLIAM J. HOSCEIT, Chicago, Ill., assignor to National Dump Car Company, Chicago, Ill., a Corporation of Maine. Filed Dec. 26, 1919. Serial No. 347,372. 7 Claims. (Cl. 105—293.)



1. In a general service car having a plurality of doors, means for directly raising said doors individually, and means including a door control shaft having a supporting and a non-supporting position with respect to an associated door and a pivotally mounted link for locking one of said doors in raised position.

1,388,951. BOBBIN. EBER J. HUBBARD, Berwyn, Ill. Filed Feb. 21, 1919. Serial No. 278,534. 1 Claim. (Cl. 242—121.)

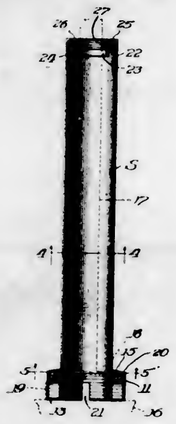


A bobbin comprising a cylindrical base part stamped integral from sheet metal and having a large opening in its base and a smaller opening in its top wall, a shank formed of a single piece of metal bent into conical form with its edges intimately abutting along their entire length, tongues extending from one of said edges and the other edge having depressions for receiving said tongues, said tongues being spot-welded to the metal at said depressions whereby said shank becomes a rigid structure, said shank at its lower end abutting on said base part around said upper opening, grooves in the edges of said opening, and tongues extending from the end of said shank through said grooves and deflected outwardly against the under side of the base top and spot-welded thereto.

1,388,952. BOBBIN. EBER J. HUBBARD, Berwyn, Ill. Filed May 12, 1919. Serial No. 296,598. 3 Claims. (Cl. 242—121.)

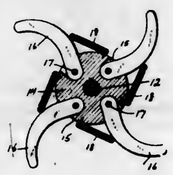
1. A bobbin of the class described, comprising a cylindrical base of sheet metal, having a central opening in its top wall, a cylindrical shank of sheet metal seated on said base and having tongues spot welded to the base top, an alining bushing of comparatively soft material inserted in said base, the lower edge of said base being flanged inwardly to secure the alining bushing, said bushing and base side walls having tooth receiving slots, a

strengthening sheet metal ring secured in the upper end of said shank, a bushing of comparatively soft material



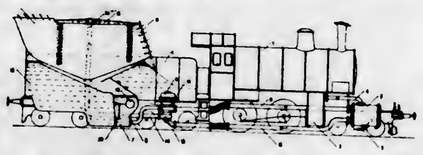
seated on said ring, the upper edge of said shank being flanged inwardly to secure said bushing to the ring, said bushing having a central opening for receiving a spindle.

1,388,953. SOIL-PULVERIZING DEVICE. JOHN H. KNIGHT, West Palm Beach, Fla.; Lura Daisy Knight administratrix of said John H. Knight, deceased. Filed Sept. 28, 1918. Serial No. 256,113. 1 Claim. (Cl. 97—62.)



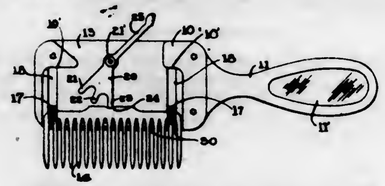
A soil pulverizer comprising a disk supported for rotary movement and provided in its periphery with a plurality of circumferentially spaced sockets, each of said sockets gradually increasing in width from its inner end to the periphery of the disk, a plurality of pulverizing fingers, each of said fingers having an end portion extending within a socket and pivotally mounted therein, and a contractile spring coacting with each of the fingers and the disk for constantly urging said finger in one direction and at its limit of movement supported by an end wall of the coacting socket.

1,388,954. SURFACE CONDENSING PLANT FOR STEAM-LOCOMOTIVES. CONRAD KOHLER, Zurich, Switzerland. Filed Aug. 1, 1919. Serial No. 314,692. 7 Claims. (Cl. 261—118.)



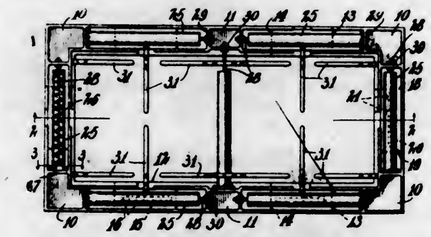
1. In a condensing plant for locomotives a surface condenser arranged at the front part of the locomotive in the immediate neighborhood of the steam power engine, a re-cooling contrivance arranged on a tender coupled to the locomotive and provided with a longitudinal air channel through which channel the air induced upon the running of the locomotive flows once in a longitudinal direction, which channel occupies a large portion of the space available inside the clearance gage and has throughout its entire length a large cross-sectional passage area for the cooling air and means for forcing the cooling water required for the surface condenser into said re-cooling contrivance wherein it is caused to fall through said air channel in contact with the air.

1,388,955. COMBINED BRUSH AND COMB. THEODOR KOZLOWSKY and WOJCIECH ROGOSKY, Toledo, Ohio. Filed Mar. 24, 1921. Serial No. 455,055. 6 Claims. (Cl. 132—87.)



6. A device of the class described comprising a brush including a back having a recess therein, a comb slidable in said recess, lugs on said comb engaging grooves in the bottom wall of said recess to guide said comb, coiled expansion springs located in said grooves and engaging said lugs to urge the comb into the said recess, and means locking said comb in position with its teeth projected from said recess, said means comprising an abutment arm pivoted to said back, a series of circumferentially spaced abutment fingers of different radial lengths on said arm, and a handle extension on said arm projecting edgewise of the brush back from the said recess.

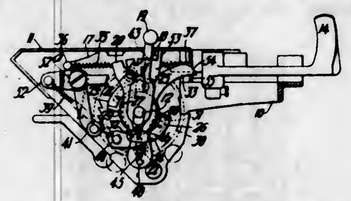
1,388,956. TELESCOPIC PICTURE-FRAME. THEODOR KOZLOWSKY and WOJCIECH ROGOSKY, Toledo, Ohio. Filed Mar. 24, 1921. Serial No. 455,056. 6 Claims. (Cl. 40—155.)



2. A picture frame comprising angle pieces and side frame members, said angle pieces having telescopic connection with each other at the ends of the frame and with said side frame members at the sides of the frame, resilient means acting transversely and longitudinally of the frame to contract the same.

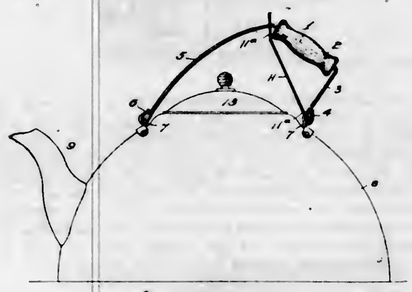
1,388,957. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 8, 1919. Serial No. 329,250. 27 Claims. (Cl. 197—114.)

1. In a typewriting machine, the combination with a revoluble platen and a line-space lever, of an axle for the platen, a pawl-carrier journaled on the axle, pawls, a hub on the axle, and a camming device adapted to be



driven by the lever to cause the pawls to seize the hub and turn the platen upon further actuation of the lever.

1,388,958. HANDLE AND PROTECTOR FOR TEA-KETTLES. JOSEPH V. LAFOND, Chicago, Ill. Filed Feb. 17, 1920. Serial No. 359,454. 3 Claims. (Cl. 53—9.)



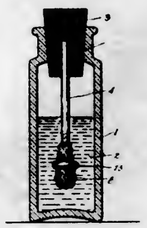
2. In combination with a kettle having a filling opening provided with a lid, and ears in front and rear of the filling opening, a bail having its ends formed with eyes connected with said ears, said bail consisting of a long arm, a short arm, and a handle-bearing portion, the long arm being connected to the front ear and the short arm to the rear ear of the kettle, a handle mounted on said handle-bearing portion, the disposition of said arms causing the handle to assume an inclined position partly in rear of the filling opening of the kettle, and a shield connected with the two arms of the bail and arranged in an inclined position in advance of the handle.

1,388,959. GAS-MASK. JOSEPH F. LAMB and FREDERICK E. CARLSON, New Britain, Conn., assignors to Landers, Frary and Clark, New Britain, Conn., a Corporation of Connecticut. Filed Aug. 27, 1918. Serial No. 251,600. 14 Claims. (Cl. 2—149.)



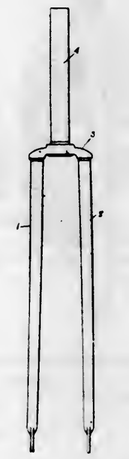
1. The herein described method of producing gas masks and the like which consists in forming an eye opening in the fabric, forming an eye-piece frame, inserting the eye-piece frame in the eye opening, securing the fabric to the eye-piece frame, forming a separate lens holder, placing the lens in the holder, and securing the holder to the eye piece frame by means of a force applied outside the periphery of the lens.

1,388,960. SWAB. WILLIAM F. LERCH, Hartford, Conn. Filed Apr. 22, 1920. Serial No. 375,776. 2 Claims. (Cl. 128—269.)



1. A swab, comprising a rod having an enlarged end adapted to receive absorbent cotton, and a ring movable on the rod and adapted to clamp said cotton on the rod, the internal diameter of the ring being greater than the external diameter of the rod but less than the external diameter of said enlargement.

1,388,961. BICYCLE CONSTRUCTION. ELMER M. LEWIS, Dayton, Ohio, assignor to The Davis Sewing Machine Company, Dayton, Ohio, a Corporation of Ohio. Filed Sept. 2, 1919. Serial No. 321,175. 1 Claim. (Cl. 208—96.)

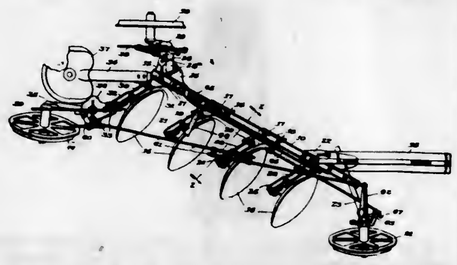


As an article of manufacture, a bicycle front fork composed of assembled parts butt-weldedly unfited into a complete integral structure, said parts before butt-welding comprising a separate and unreinforced fork stem, a fork head formed of one piece provided with a central aperture having a raised edge around it adapted to contact with the lower end of the stem and to be butt-welded thereto, the lower portion of the fork head being provided near its outer extremities with two oppositely disposed fork arm orifices each with a downwardly extending edge around it and two fork arms adapted to contact with said edges and to be butt-welded thereto, the corresponding opposite contact surfaces being substantially equal.

1,388,962. DISK PLOW. ALEXUS C. LINDGREN, Chicago, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed July 2, 1914. Serial No. 848,537. 13 Claims. (Cl. 97—40.)

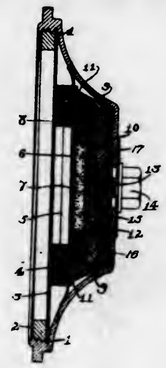
1. In a disk plow, a main frame bar, supporting wheels associated therewith, angle plates detachably mounted at

intervals beneath said bar, disk carrying arms connected to said angle plates, and a triangular rear plate member detachably secured beneath said frame bar and having a



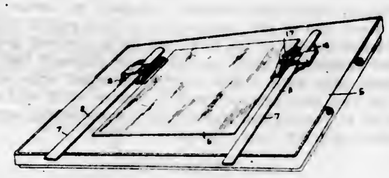
connection with each rear supporting wheel, and securing means for said plates which permit substitution of the rear plate for an angle plate.

1,388,963. SOUND-TRANSMITTING INSTRUMENT. ALEXANDER MARR, Biggin Hill, England. Filed May 27, 1919. Serial No. 300,172. 9 Claims. (Cl. 179—122.)



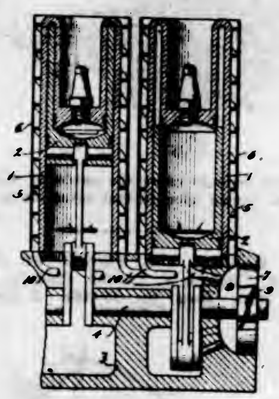
6. A microphone comprising a carbon resistance cell, a casing, means to insulate one part of said cell from said casing, a sheet of metallic foil, and means to elastically hold said foil in contact with the other part of said cell and said casing, and a vibrating diaphragm spaced from said cell.

1,388,964. PAPER-GRIPPER. EDWARD L. MEGILL, New York, N. Y. Filed Mar. 31, 1919, Serial No. 286,476. Renewed Feb. 8, 1921. Serial No. 443,494. 6 Claims. (Cl. 101—408.)



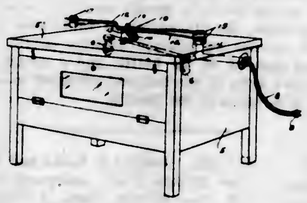
1. A device of the kind described comprising a sleeve member having a paper-engaging portion, a member embraced by the sleeve and along which the sleeve is slidable, and a bowed spring secured to the sleeve and having one end formed as a detent and the other end formed as a shoe.

1,388,965. COOLING MEANS FOR INTERNAL-COMBUSTION ENGINES. ROBERT ALEXANDER MOORE, New York, N. Y. Filed May 5, 1920. Serial No. 379,122. 6 Claims. (Cl. 123—171.)



2. In an internal combustion engine of the class described, a cylinder, spiral fins extending about the wall thereof, an open ended jacket surrounding the fins and forming therewith a series of passages, a crank case, a tube connecting with the jacketed space, and passing through the crank case in position for the lubricant therein to be thrown upon its surface to thereby cool said lubricant, and engine operated means in the end of the crank case for inducing a circulation of the cooling medium from the top of the cylinder through the tubular passages.

1,388,966. ELECTRIC HEATING AND REGULATING DEVICE FOR INCUBATORS. WILLIAM G. NELSON, Racine, Wis. Filed Jan. 15, 1920. Serial No. 351,520. 5 Claims. (Cl. 219—19.)

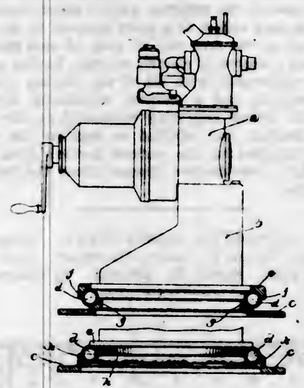


1. A heating unit comprising a heating element, an electrical circuit connected with the heating element and having a break therein, and means for automatically opening and closing the break in said circuit including a pivoted lever, a circuit closing plate carried thereby and movable to close the break in said circuit, and a thermostatic expansion chamber adjustably connected with the lever to impart a movement thereto upon the temperature changes.

1,388,967. VIBRATION-QUENCHING MOUNT FOR INTERNAL-COMBUSTION MOTORS. WARREN NOBLE, Providence, R. I., assignor to N. C. L. Engineering Corporation, Providence, R. I., a Corporation of New York. Filed June 3, 1919. Serial No. 301,528. 3 Claims. (Cl. 248—30.)

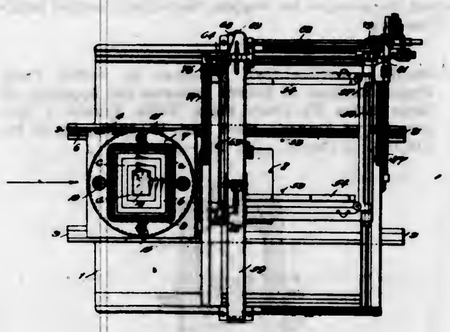
1. The combination of an internal combustion motor having a base with an outstanding flange, and an annular cushion consisting of a jacket having a confined body of

air underlying said flange, the flange having centering means engaging the cushion laterally and arranged to pre-



vent relative lateral displacement of either with respect to the other.

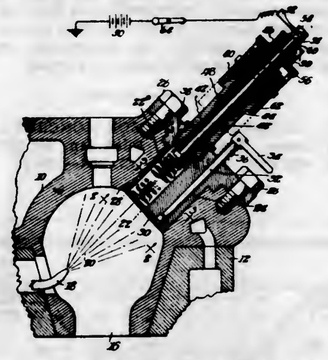
1,388,968. PRINTING-MACHINE. ASHLEY GUY OGDEN, Baltimore, Md., assignor to Multiple Offset Machine Co., Baltimore, Md., a Corporation of Maryland. Filed Mar. 1, 1917. Serial No. 151,748. 34 Claims. (Cl. 95—73.)



1. In a device for printing on sensitized surfaces, the combination with a negative holder, of a sensitizing surface holder, a support for the surface holder, a device for shielding the sensitized surface from light coming through the negative, means for relatively moving the holders to printing position, connections for making the shielding device ineffective by actuation of the moving means to bring the holders to printing position, and a device connected to the support and made effective by the relative approach of the holders to exclude side light from between the holders.

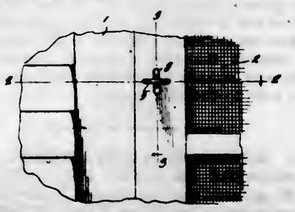
1,388,969. PROTECTED FIRING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. ALFRED PETER, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a Corporation of Illinois. Filed June 1, 1920. Serial No. 385,594. 6 Claims. (Cl. 123—145.)

1. In an engine of the class described having a combustion chamber and a fuel inlet nozzle directed to a predetermined point therein, an oil firing mechanism in a recess in the wall of the combustion chamber, adjacent to said predetermined point in the chamber, means for moving said firing mechanism within its recess, toward



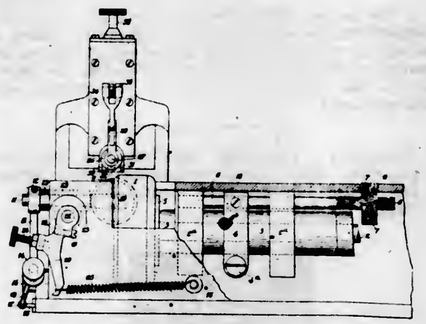
and from the fuel nozzle, and means independently operatable from outside the combustion chamber, closing access to said recess from the combustion chamber.

1,388,970. DOOR-HOOK. LILLIAN RANDAZZO, Ranger, Tex. Filed Aug. 8, 1920. Serial No. 400,945. 2 Claims. (Cl. 292—102.)



1. A door hook including a strand of metal one end of which is formed to provide a hasp and the opposite end formed to provide a handle, an intermediate portion of said strand being convoluted for engagement with the door.

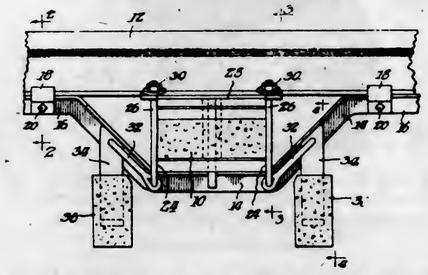
1,388,971. SKIVING-MACHINE. JOHN ROBINSON, Kingswood, near Bristol, England, assignor of one-half to Hodge, Jacques & Company, Limited, Bristol, England. Filed Dec. 10, 1919. Serial No. 343,892. 3 Claims. (Cl. 69—16.)



2. In a skiving machine, a frame, a pair of feed rollers mounted on spindles disposed transversely of said frame, a sleeve and a screwed spindle disposed longitudinally of and slidably mounted on said frame, a collar clamped to said sleeve and connected to said screwed spindle, a shaft

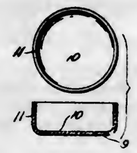
mounted in said sleeve, a flange on said shaft, a cylindrical knife mounted on said flange, said sleeve being adapted to be pressed to bear on said flange, and means for moving the screwed spindle longitudinally of the said frame to move the said shaft forward to the feed rollers as the knife wears and to facilitate the detachment and withdrawal of the knife for substitution of another.

1,388,972. RAIL-FASTENING FOR CONCRETE TIES. EDWIN ROGERS, Aurora, Ill. Filed Jan. 24, 1921. Serial No. 439,425. 2 Claims. (Cl. 238—106.)



1. In combination with a railroad rail and a tie therefor, a securing member attached to the rail at some distance on opposite sides of the tie, thence extending angularly downward to and below the tie, U-shaped sustaining rods located immediately adjacent to the sides of the tie passing through the first mentioned securing member, thence directly upward to the rail and means for securing these rods to the rail flanges.

1,388,973. METHOD OF MANUFACTURING CONNECTING MEMBERS OR LINKS FOR CUFF-BUTTONS. JOHN W. SCHOELLNER and JOSEPH P. ROWLEY, Newark, N. J., assignors to Schoellner & Horbach Mfg. Co., Newark, N. J., a Corporation of New Jersey. Filed Oct. 29, 1917. Serial No. 199,026. 3 Claims. (Cl. 79—3.)



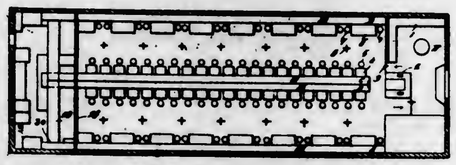
2. The method which consists in providing a flat blank, manipulating the same to give it a cup shape, turning in the edge of the cup, removing the bottom of the cup and turning up the edge of the blank surrounding the cut-out portion and lapping the same over the inturned edge first mentioned.

1,388,974. ELECTRIC HEATER FOR POULTRY PLANTS. JOHN PHILIP SCHREIBER, Mount Vernon, Ind. Filed July 10, 1920. Serial No. 395,236. 1 Claim. (Cl. 219—45.)



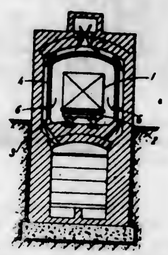
In an electric heater heating means for poultry plants, the combination of a plurality of individual heaters disposed at separate positions, and each comprising a metal casing containing non-heat-conducting material, a parabolic reflector open at the top mounted in each of said casings, a socket mounted in each reflector, an incandescent bulb detachably mounted in each of said sockets and positioned close to the reflector wall, a short electric connection from each socket to a point exterior to the casing, a screw plug on the free end of each of said short connections, and a source of electric current, having a circuit detachably connectible with all of the various individual heating elements, and a current regulating device included in the circuit supplying electricity to the various individual heaters, and adapted to regulate the amount of current supplied to the various heaters from a central point at a considerable distance from the individual heating units.

1,388,975. AUTOMATIC RESTAURANT. CHARLES H. SPINK and VICTOR D. GAANS, Davenport, Iowa. Filed July 26, 1920. Serial No. 398,900. 12 Claims. (Cl. 186—1.)



1. A system comprising a reception room, an eating room, a kitchen, a conveyer leading from the kitchen to the end of the eating room and adjacent the reception room and slanting downward from the kitchen, trays adapted to travel on said conveyer, and means disposed along the conveyer for stopping the trays at desired points therealong.

1,388,976. ANNEALING. CHARLES M. STEIN, Paris, France, assignor to Societe Anonyme Des Appareils De Manutention Et Fours Stein, Paris, France, a Corporation of France. Filed Aug. 18, 1919. Serial No. 318,169. 2 Claims. (Cl. 266—5.)



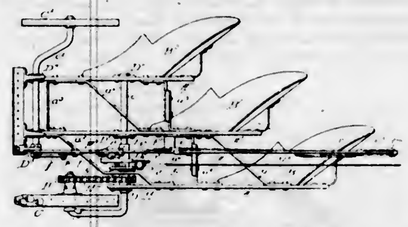
1. An annealing furnace comprising a muffle adapted to receive the articles to be annealed, a combustion chamber immediately surrounding said muffle, means for admitting a non-oxidizing gas directly into said muffle, openings in the wall of said muffle for allowing said gas to pass through the muffle into the surrounding chamber and means for admitting air into said surrounding chamber to mix with said non-oxidising gas forming a combustible mixture to be burnt in said chamber for heating said muffle.

1,388,977. COMBINATION SHIPPING, PACKING, AND DISPENSING DEVICE. JAY QUINCY STEPHENS, Kansas City, Mo. Filed Nov. 28, 1919. Serial No. 340,988. 7 Claims. (Cl. 206—56.)

1. A device of the character described consisting of a tubular container for holding articles to be dispensed, retaining elements associated with said container to yieldably engage and support the articles in position for dispensation, a clamp to embrace and support said container in active position, and pins secured to the container and adapted to overlap said clamp, for the purpose described.



1,388,978. DEVICE FOR RAISING A GANG OF PLOWS. JOHN F. STEWARD, Chicago, Ill., assignor, by mesne assignments, to Fred Gerlach and Arnold B. Keller, trustees, Chicago, Ill. Filed Feb. 13, 1914, Serial No. 818,458. Renewed Apr. 14, 1919. Serial No. 290,089. 20 Claims. (Cl. 97—55.)



1. In a plow, the combination of a plow supporting frame, carrying wheels, crank axles connecting the frame and wheels, a lever for rocking said axles, coöperating clutch members, a link between one of said clutch members and lever, and means for throwing said member of the clutch out of engagement with the coöperating clutch member when the line through the pivots of the connecting link has passed the axis of movement of the clutch.

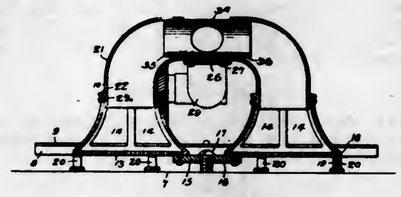
8. The combination of an implement frame, axles journaled on the frame and having cranked ends, supporting wheels on the cranks, means operated by one of the wheels for simultaneously swinging the cranks and retaining them at their limit of movement in one direction, including an upwardly directed link pivotally connected to one of the axles and to the frame, said link being curved to permit its connection with the axle to pass under it in one position of the cranks.

1,388,979. SOCKET-WRENCH. ORA E. STEWART and MACKLIN K. COMBINE, Columbus, Ohio. Filed Mar. 3, 1921. Serial No. 449,280. 5 Claims. (Cl. 81—121.)

1. In a wrench of the character described, a shank terminating in a multiple sided extremity, a sleeve slidably mounted upon said extremity, the lower end of said sleeve being normally spaced from the lower end of said extremity to provide a nut receiving socket, means normally operating to maintain the lower ends of the shank and sleeve in spaced relation, and means for permitting of the convenient reciprocation of said sleeve upon said shank independently of movement on the part of the latter.

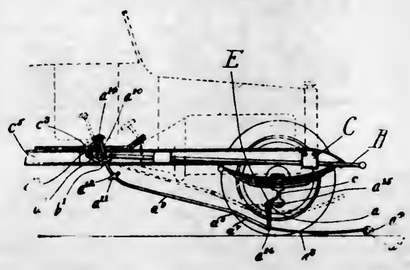


1,388,980. TALKING-MACHINE. FRANK TALARICO, Philadelphia, Pa. Filed Apr. 10, 1920. Serial No. 372,955. 3 Claims. (Cl. 274—23.)



1. The combination in a talking machine of a plurality of hollow pedestals having apertures therein; a tone arm communicating with said pedestals; sound reproducing means on said tone arm; means connected to said pedestals and to a supporting structure; and legs positioned at points remote from said latter means for engagement with said supporting structure whereby tension can be placed upon said latter means for the purpose of holding said legs in contact with said supporting structure; substantially as described.

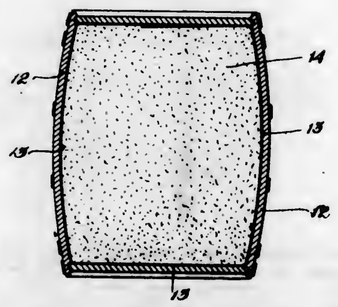
1,388,981. SAFETY DEVICE FOR AUTOMOBILES. MICHAEL THIERY, Cincinnati, Ohio. Filed Apr. 22, 1921. Serial No. 463,690. 14 Claims. (Cl. 293—37.)



1. The combination with an automobile of a fender, means pivotally mounting the fender below the front axle

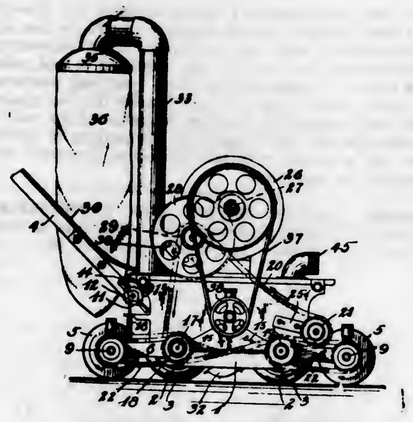
and intermediate the front wheels thereof and being adapted to be moved about its pivotal mounting to a position spaced from the roadway and to a position in immediate proximity to the roadway, and means operable from the driver's seat adapted to move the fender to either of its positions.

1,388,982. RED CAVIAR AND THE METHOD OF MAKING AND PRESERVING THE SAME. MICHEL P. VUCASSOVICH, Wellesley, Mass. Filed Oct. 8, 1919. Serial No. 329,228. 2 Claims. (Cl. 99—11.)



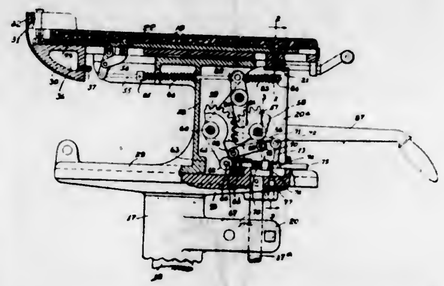
1. The method of making and preserving caviar from normally substantially flavorless spawn comprising thoroughly incorporating with the fresh spawn powdered salt and salt-peter and aging or ripening the product to the development of the desired flavor.

1,388,983. FLOOR-WORKING MACHINE. FRANK WAGNER, New York, N. Y. Filed Nov. 24, 1917. Serial No. 203,654. 4 Claims. (Cl. 51—176.)



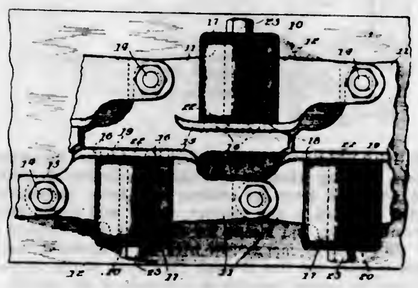
1. In a floor polishing machine, the combination of a frame mounted on wheels, a pair of supporting arms pivotally carried thereby, a rotatable drum supported between said arms, means for adjusting said arms upwardly to withdraw said drum from the floor, yielding means tending to force the drum toward the floor, and means for driving said drum through the pivotal supports of said arms.

1,388,984. IRONING-MACHINE. CHARLES E. WARRAM, Cincinnati, and DANA H. BENJAMIN, Cleveland Heights, Ohio, assignors to The American Laundry Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 2, 1917. Serial No. 178,286. 11 Claims. (Cl. 68—9.)



1. An ironing machine, comprising an ironing chest having a neckband recess, a coöperating ironing board carrying an adjustable neckband former, said chest and board being movable into ironing relation with the neckband former registering with said recess, means for adjusting said neckband former without disturbing its registering relation with said recess, and means operatively connected with said adjusting means for clamping the front portions of the neckband to said former.

1,388,985. TRACTION-WHEEL ATTACHMENT. WILLIAM WEBBER, La Grange, Ill., assignor, by mesne assignments, to International Harvester Company, a Corporation of New Jersey. Filed Mar. 18, 1918. Serial No. 223,210. 16 Claims. (Cl. 301—44.)

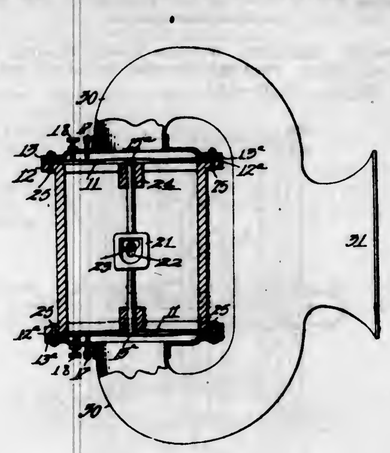


16. In combination, a traction wheel having traction lugs projecting radially from its periphery and provided with openings outside the periphery of the wheel, auxiliary lugs fitting over and engaging the traction lugs and having openings registering with the openings in the traction lugs and securing means engaging in the registering openings to secure the auxiliary lugs to the traction lugs.

1,388,986. SOUND-PRODUCING DEVICE. JOHN H. WHEELOCK, Worcester, Mass., assignor to Klaxon Company, Newark, N. J., a Corporation of Delaware. Filed Dec. 31, 1917. Serial No. 209,770. 7 Claims. (Cl. 116—142.)

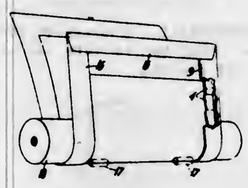
1. In a horn, the combination of two parallel diaphragms, a thrust member arranged perpendicularly to the two diaphragms and located between them, and always

in contact with both, whereby when moved in one direction the plunger will distort one of the diaphragms and both diaphragms will move with it in both directions, and two



abutments having rigid surfaces adapted to engage one diaphragm, one of said abutments tending to prevent vibration of one part and the other to limit the amplitude of swing of another part of said diaphragm.

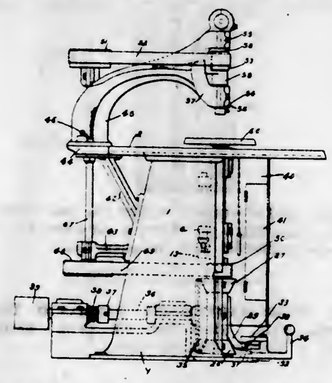
1,388,987. TYPEWRITING-MACHINE. JOHN A. WHEARY, New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 26, 1918. Serial No. 255,781. 14 Claims. (Cl. 282—28.)



1. A collating sheet adapted to be curved around a typewriter platen having a face on which work-sheets are adapted to lie, and having a series of recesses into which the ends of the work-sheets are adapted to be inserted, so that the ends of the recesses engage the ends of the work-sheets to collate them, each recess having one wall adapted to be lifted clear of the face, and a wing on the collating sheet adapted to be folded down over the recess wall to grip the work-sheets when curved around the platen.

1,388,988. WOODWORKING-MACHINE. GEORGE FRANKLIN WELIVAR, Williamsport, Pa. Filed Oct. 5, 1920. Serial No. 414,755. 5 Claims. (Cl. 144—134.)

1. In a wood working machine the combination with a pedestal and a table thereon, of a vertically movable headstock, means for shifting said headstock vertically, a friction drive gear, a slidable cross head below the headstock, opposed friction gears thereon, a spindle journaled within the headstock and slidable within but revoluble with the opposed friction gears, said spindle being adjustable vertically with the head stock and within the opposed friction gears, and foot operated means for shifting the cross head to position either of the opposed friction gears in contact with the drive gear.



1,388,989. PNEUMATO-ELECTRIC SWITCH FOR MUSICAL INSTRUMENTS AND THE LIKE. ARTHUR HOWARD WILLIAMS, Minneapolis, Minn. Filed Oct. 9, 1917. Serial No. 195,591. 1 Claim. (Cl. 200—83.)

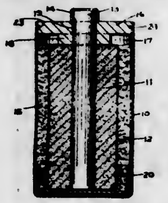


A pneumato-electric switch comprising a dielectric body having a depressed portion with an air passage and an air chamber and a threaded boss for screwing into a support, a metallic tubulure in the air passage protruding therefrom, a fixed contact carried by the dielectric body and disposed in the depression, and a movable contact secured to said body in electrical connection with the tubulure and having a portion arranged to vibrate against the fixed contact by the vibration of the diaphragm therebeneath under pneumatic impulses.

1,388,990. DRY CELL. HAROLD DE OLANETA, New Haven, Conn., assignor to Winchester Repeating Arms Company, New Haven, Conn., a Corporation of Connecticut. Original application filed Sept. 2, 1919, Serial No. 321,068. Divided and this application filed May 7, 1920. Serial No. 379,516. 24 Claims. (Cl. 204—34.)

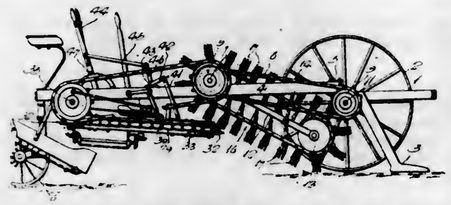
1. In a dry cell, a metallic cup, a cartridge therein of less height than the cup, having an upwardly projecting

electrode, a paste interposed between the cartridge and the side wall of the cup, and a preformed plug inserted



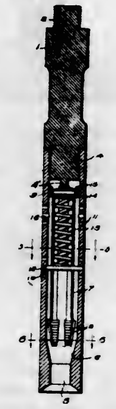
in the upper end of the cup around the end of the electrode and presenting a gas chamber cut away at the bottom for communication with the paste space.

1,388,991. BEET-HARVESTER. THOMAS H. DOLLING, La Junta, Colo. Filed Dec. 23, 1919. Serial No. 346,882. 4 Claims. (Cl. 55—108.)



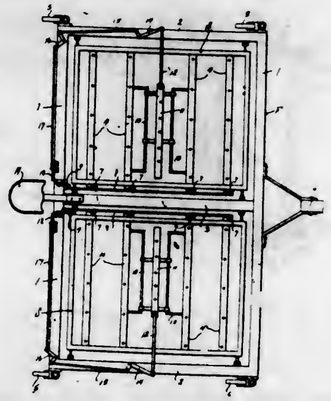
1. In a machine of the class described, an endless driven chain, wheels around which said chain is trained, opposed spring-closed beet grippers mounted on said chain, toggle links connecting the opposed grippers, actuating links connected at one end with said toggle links, and operating levers fulcrumed on said chain for swinging longitudinally thereof, said levers being connected with said actuating links and normally extending inwardly from the chain to strike one of said wheels, whereby to actuate said links to spread said grippers.

1,388,992. FISHING-TOOL. OSCAR B. DUTTON, Baxter Springs, Kans. Filed Dec. 28, 1920. Serial No. 433,646. 4 Claims. (Cl. 294—102.)



1. A fishing tool, comprising a shell or casing, gripping members slidably mounted therein, a spring engaging said gripping members and adapted to move them upwardly to an inoperative position, a pin extending across said casing to prevent upward movement of said gripping members, and means for severing said pin to permit said spring to move the gripping members to inoperative position.

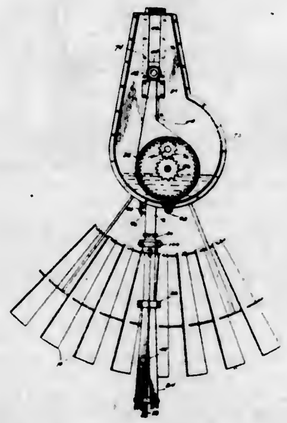
1,388,993. HARROW. WILLIAM YANCEY ELLIOTT, Deer Lodge, Mont. Filed Apr. 14, 1920. Serial No. 373,785. 3 Claims. (Cl. 55—19.)



1. In combination with a harrow section, including a frame and teeth carrying bars, guide ways carried by adjacent bars, and a supplemental tooth carrying bar slidably engaged with the guide ways.

2. In combination with a harrow section, including a frame and teeth carrying bars, guide ways carried by adjacent bars, and a supplemental tooth carrying bar slidably engaged with the guide ways, said supplemental tooth carrying bar being of a length to extend beyond a side of the frame upon movement of said supplemental bar in one direction.

1,388,994. WINDMILL. CHARLES F. ERICKSON, Wetmore, Kans. Filed Apr. 18, 1919. Serial No. 290,991. 3 Claims. (Cl. 74—27.)



1. A wind mill construction comprising a wind wheel, a shaft driven by said wheel and provided with a pinion secured to said shaft, a reciprocating plunger rod, a pitman connected with said plunger rod and formed with an internal gear meshing with said pinion, an idle gear wheel carried by said pinion coaxially with said internal gear and acting to maintain the latter in mesh with said pinion, and a stationary housing inclosing said pitman and carrying an oil bath entered by said gear and its idle wheel at each stroke of said pitman.

1,388,995. PROCESS OF SYNTHESIZING AMMONIA IN THE PRESENCE OF A CATALYTIC ALLOY. FRANK A. FAHRENWALD, Cleveland, Ohio. Filed Feb. 25, 1918. Serial No. 218,932. 1 Claim. (Cl. 23—21.)

The process of producing ammonia synthetically which consists in subjecting hydrogen and nitrogen, to heat and pressure in the presence of a catalytic screen containing palladium and nickel.

1,388,996. ATTACHMENT FOR AUTOMOBILES. JAMES F. FAIR, Doby Springs, Okla. Filed Sept. 21, 1920. Serial No. 411,694. 3 Claims. (Cl. 267—45.)



2. In an automobile spring support, the combination with a main spring, an axle to which the main spring is operatively connected, an auxiliary spring having eyes in its ends, plates on opposite sides of the spring at the said ends, bolts extending through the plates and through the eyes of the auxiliary spring, the said plates extending downwardly on opposite sides of the axle, the said plates having apertures near their upper ends and bolts extending through the apertures of each pair of plates above the main spring whereby the main spring is held between said bolts and said auxiliary spring.

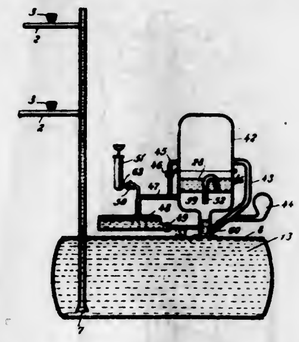
1,388,997. DEVICE FOR HEATING SWITCHES AND THE LIKE. JAMES GREER, Hoboken, N. J. Filed May 3, 1921. Serial No. 466,541. 16 Claims. (Cl. 246—428.)



1. In a device for heating switches, the combination of a pipe arranged in proximity to a rail forming a part of the switch, and a plurality of nozzles in said pipe adapted to project an inflammable liquid upon said rail, said liquid being ignited after the same is discharged from said nozzles.

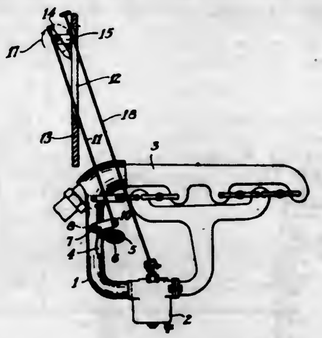
1,388,998. CHEMICAL FIRE-EXTINGUISHING APPARATUS. JOHN R. HAMILTON, Yonkers, N. Y. Filed Nov. 16, 1916. Serial No. 131,629. 18 Claims. (Cl. 169—8.)

1. In chemical fire extinguishing apparatus, a wet pipe distributing system comprising distributing devices including automatic sprinkler heads, a connected gaseous pressure liquid supply tank charged with carbonate extinguishing liquid and coöperating chemical mixing devices comprising a chamber containing a charge of acid pressure producing chemical, a discharge siphon communicating with said chamber to discharge said chemical into said tank, an air chamber communicating with said acid chamber, a neck normally containing liquid and constituting a passage between said tank and the discharge end of said siphon, a small volume discharge chamber formed in said neck around the discharge end of said siphon, an equalising air connection between said air chamber and said neck below the normal liquid level therein and formed with an upwardly extending chamber above said liquid level to constitute a liquid sealed



equalizing air connection, a large area priming tank communicating with said neck and a small area equalizing passage normally open between said air chamber and the upper part of said neck.

1,388,999. AIR-REGULATOR FOR AUTOMOBILES. ALEXANDER HANGO, Portland, Oreg. Filed Sept. 16, 1920. Serial No. 410,665. 3 Claims. (Cl. 137—139.)

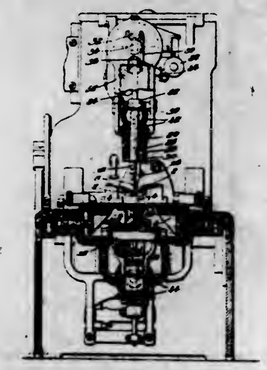


1. A carbureter, an air intake pipe for the carbureter, a damper in the intake pipe capable of opening or closing the passage through said intake pipe, a hole in the side of the intake pipe between the damper and carbureter, a cover on the outside of the intake pipe to close the hole, said cover being connected with the damper and operating in unison therewith, and means to actuate the damper and cover from the dash board of an automobile.

1,389,000. SEWING-MACHINE. GEORGE S. HILL, Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed June 19, 1916, Serial No. 104,449. Divided and this application filed May 11, 1917. Serial No. 167,933. 3 Claims. (Cl. 112—241.)

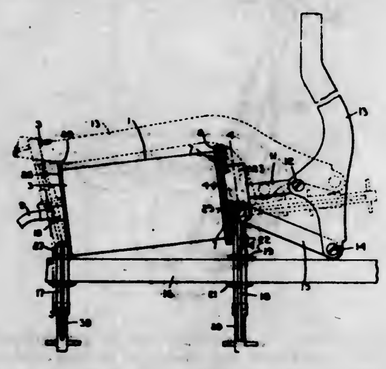
1. A sewing machine having, in combination, a vertically reciprocating upper needle bar, complemental under mechanism comprising looper and loop spreader points coöperating with the needle to form overseam stitches, a thread guide on the upper part of the needle bar, a thread guide at one side of the needle bar against which the thread is drawn by the needle bar during the latter

part only of the upward stroke of the bar, and a stationary thread retainer arranged between the guides and constructed to frictionally hold the thread until with-



drawn therefrom by the action of the needle eye on the thread, as the eye carries a loop of thread through the work.

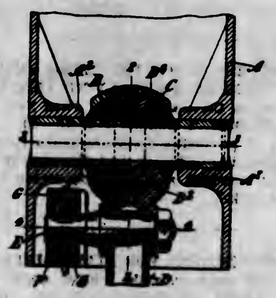
1,389,091. PUMP. ROLAND C. HILTON, Troy, N. Y., assignor to Reece-Hilton, Inc., Troy, N. Y., a Corporation of New York. Filed Apr. 27, 1920. Serial No. 376,938. 4 Claims. (Cl. 230—27.)



1. In a pump, the combination with a cylinder element comprising a one-piece cup-shaped member which constitutes the side walls and one end of the cylinder, of a cylinder head secured to said member, a piston in the cylinder, a piston rod connected to said piston and extending through said cylinder head, an actuating lever pivoted intermediate of its ends to the end of the piston rod, a link pivotally connecting said cylinder head with the end of the actuating lever, and a clamping member pivoted to the cylinder head co-axially with said link and by which the cylinder is clamped to a running-board.

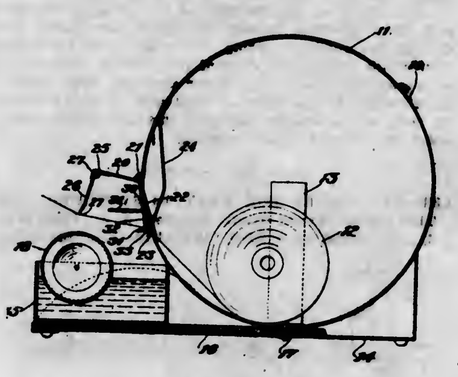
1,389,002. INTERNAL-COMBUSTION ENGINE. PERCIVAL TOANNE HOUSTON, London, England, assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Filed Sept. 3, 1919. Serial No. 321,570. 3 Claims. (Cl. 74—108.)

1. In an internal combustion engine, the combination of a piston having alined gudgeon pin bosses, a gudgeon pin removably mounted in said bosses, a parti-spherical surface on said gudgeon pin, a connecting rod bearing upon said parti-spherical surface, and a projection upon



said connecting rod engaging the wall of said piston, substantially as set forth.

1,389,003. SEALING-STRIP APPARATUS. ELBRIDGE HUEY, Somerville, Mass. Filed Sept. 21, 1920. Serial No. 411,758. 4 Claims. (Cl. 211—39.)

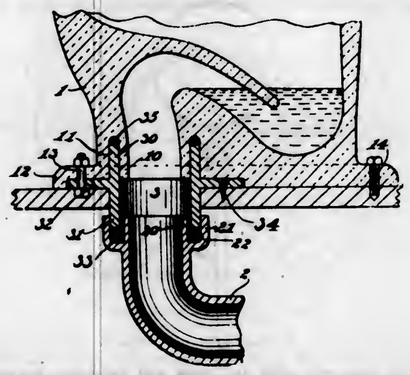


1. A sealing strip machine comprising a strip container, a clamping member hinged upon the container and having a portion adapted to clamp the strip against the wall of the container, and a severing device hinged upon the clamping member and adapted to cause an increased clamping pressure when the strip is pressed thereagainst.

1,389,004. TOILET-FIXTURE CONNECTION. JAMES A. JOHNSTON, Seattle, Wash., assignor of twenty per cent. to Thomas J. Claffey and five per cent. to Nicholas Ambrose, Chicago, Ill. Filed Jan. 21, 1920. Serial No. 352,919. 3 Claims. (Cl. 285—34.)

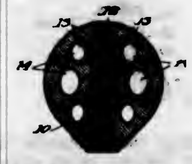
2. A water closet drain connection comprising a water closet having a deep annular groove in its base extending about and separate from its outlet, a drain pipe, a pipe section having a radial flange adapted to be secured to the floor and to the water closet bowl, the upper end of said pipe section fitting closely within said groove in the closet base, a gasket supported only upon the upper end of the pipe section and compressed between the upper end of the pipe section and the bottom of said groove to form a gas-tight joint therebetween, a collar formed upon the outside of the end of the drain pipe and forming therewith an upwardly facing annular groove, the lower

end of the pipe section fitting closely within the inside of said collar to form a tight joint therewith, and a



poured metal seal filling the annular groove beneath the lower end of the pipe section and between it and the upper end of the drain pipe.

1,389,005. TIRE-CASING FILLER. WILLARD M. MCEWEN, Chicago, Ill. Filed Mar. 11, 1920. Serial No. 364,883. 5 Claims. (Cl. 152—5.)



4. A tire-casing filler conforming substantially to the interior shape of the tire-casing, and comprising a main resilient solid rubber portion extending longitudinally of the filler and arranged centrally and vertically of the filler and having a total cross-sectional area sufficient and being stiff enough to support the normal load on the tire, said main solid rubber portion having a substantially uniform thickness throughout its height and having substantially straight, smooth side faces, and more resilient solid rubber portions on opposite sides of the main solid rubber portion and being in direct contact with the sides thereof and vulcanized thereto for supporting said main solid rubber portion in proper load-supporting position, said filler being inclosed in a retaining casing and inserted into the tire-casing under pressure.

1,389,006. NUT-LOCK. JOHN P. NOAH, Galena, Ill. Filed Jan. 14, 1921. Serial No. 437,232. 1 Claim. (Cl. 151—63.)



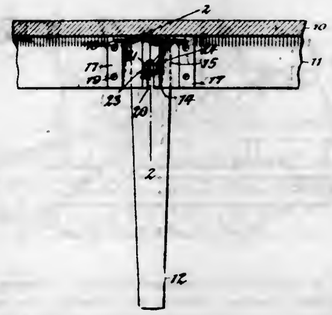
In a rail joint, the combination with track rails, bolts inserted therethrough, washers on the bolts, and nuts fitted on the bolts against the washers, of a locking bar having depending lugs to span the washers and provided with flat-sided notches at the outer sides of said lugs to engage the nuts.

1,389,007. OIL-WELL APPARATUS. JULIUS NOBBYS, Minneapolis, Minn. Filed June 24, 1919. Serial No. 306,507. 3 Claims. (Cl. 166—5.)



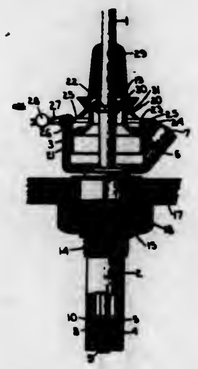
1. An oil well apparatus comprising a well-casing made up of imperforate and perforated sections, said perforated sections being located at different sand-levels and each having a length substantially the same as the thickness of the adjacent level, movable members adjacent said perforated sections for covering and uncovering the perforations therein, and means mounted at the top of the well for independently operating said movable members.

1,389,008. LEG-FASTENING FOR FURNITURE. FREDERICK W. POHLE, Jr., Buffalo, N. Y., assignor to Steul and Thuman Company, Buffalo, N. Y., a Corporation of New York. Filed Dec. 8, 1919. Serial No. 343,263. 1 Claim. (Cl. 45—48.)



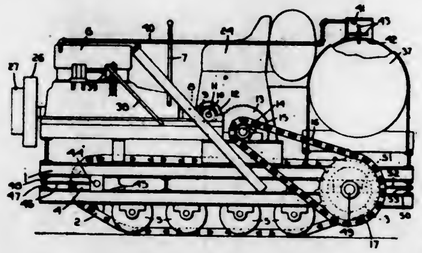
The combination with an article of furniture having a top consisting of a horizontal plate and a vertical flange depending from said plate and a leg having its upper end arranged in the inner corner between said plate and flange, of means for detachably connecting said top and leg comprising a bracket of sheet metal which is bowed horizontally and forms between its concave side and the inner side of said flange a complete socket which receives the upper end of said leg, said bracket being provided with a vertical slot extending upwardly from the lower edge thereof, and a horizontal clamping screw mounted on the upper end of said leg and entering said slot and provided with a screw nut bearing against the exterior of said bracket.

1,389,009. BALL-BEARING SPINDLE. THEODORE M. P'RUDDEN, Newton, Mass. Filed Aug. 29, 1919. Serial No. 320,674. 15 Claims. (Cl. 64—72.)



7. A spindle bearing comprising a bolster having a hollow cylindrical upper portion, a separate metal ball race having a flange seated in said cylindrical portion, the ball race being located at a distance above the top of said cylindrical portion, a spindle in said bolster having a cone adapted in coöperation with said ball race to provide an upper ball bearing for said spindle, a lower step bearing for said spindle and means for adjustably securing said upper ball bearing in the cylindrical upper portion of said bolster whereby the proper adjustment of the spindle in its ball bearings may be secured, and a whirl on said spindle having a central recess inclosing said upper ball bearing whereby the central plane of the groove of said whirl will be substantially in the same plane as the ball bearing.

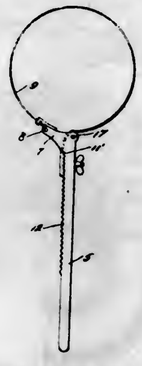
1,389,010. TRACTOR. FRED A. PUTNAM, Keene, N. H. Filed Jan. 12, 1920. Serial No. 350,832. 7 Claims. (Cl. 180—9.2.)



1. In a tractor, the combination with a frame, of two independent traction chains, one situated on each side of the frame, two independent motors at the forward end of the frame, one motor being situated directly over each chain and each motor having a longitudinally extending driving shaft, a cross shaft geared to each driving shaft, and a separate driving connection between each cross shaft and one of the traction chains.

1,389,011. JAR-OPENER. CORNELIUS QUINN, Denver, Colo. Filed Nov. 19, 1920. Serial No. 425,122. 3 Claims. (Cl. 81—3.1.)

1. A tool of the character described, comprising a handle provided upon one side with teeth and having a longitudinal slot and a pair of spaced ears at its forward end, a flexible element connected with the outer ends of the ears, a block connected with the opposite end of the flexible element and having teeth to engage the first named teeth,



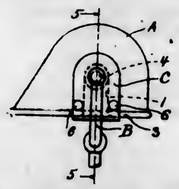
a bolt connected with the block and extending through the longitudinal slot and carrying a clamp nut, and a roller pivoted between the ears and engaging the flexible element.

1,389,012. PIPE-COUPLING FOR RAILWAY ROLLING-STOCK. JOHN W. ROBERTS, Sarnia, Ontario, Canada. Filed July 10, 1920. Serial No. 395,361. 3 Claims. (Cl. 285—24.)



1. In a pipe coupling, the combination of a supporting frame provided with inwardly facing alined vertical pivots; a coupling member carrying frame comprising top and bottom members having longitudinal slots formed therein engaging said pivots, vertical side members integral with one of the aforesaid members, tenons on the ends of the side members adapted to fit in mortises formed in the other of said first mentioned memoers; and a detachable bail holding the top and bottom members together.

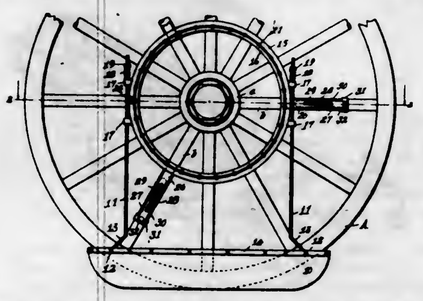
1,389,013. MOUNTING LAMP-SHADES. SAMUEL ROBERT SCHWARTZ, New York, N. Y. Filed Nov. 24, 1920. Serial No. 426,148. 8 Claims. (Cl. 240—4.)



2. In a lamp, a shade provided with a slotted opening, a supporting member adapted to pivotally and slidably engage said opening, and means on said member adapted to provide a seat for the shade.

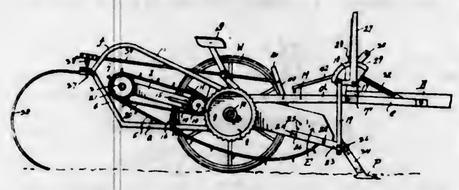
1,389,014. MUD-GUARD. FREDERICK WILLIAM SIMONS, Jr., New York, N. Y. Filed Aug. 20, 1920. Serial No. 404,818. 3 Claims. (Cl. 280—156.)

1. A device of the class described including a mud guard, means to support the same, a ring element to sustain said supporting means and adapted to revolve relatively thereto, and means to secure said ring element to the spokes of a wheel, said last-mentioned means including arms rigid



with the ring element, an extension pivotally connected with said arms, and clamps having a swivel connection with said extension and adapted to embrace spokes.

1,389,015. PEANUT-DIGGER. MORMAN J. SMITH and BENJAMIN F. BROWDER, Weatherford, Tex. Filed July 23, 1919. Serial No. 312,702. 2 Claims. (Cl. 55—51.)

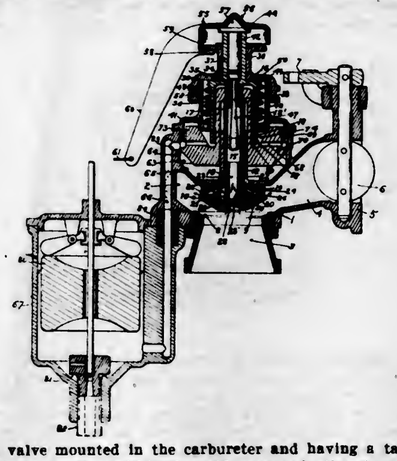


1. A peanut digger comprising a portably supported axle, transversely spaced members supported by said axle for vertical swinging movement, means for imparting movement to said members, an arm pivotally engaged substantially midway its length with each of said side members and extending in advance of the forward end thereof, means for holding each of said arms against pivotal movement, and a ground digging implement secured to the forward portion of each of the arms.

2. A peanut digger comprising a portably supported axle, side members supported by said axle and extending forwardly and rearwardly thereof, the rear end portions of said members being upwardly directed, a draft pole secured to the forward end portions of said side members, brace members secured to the rear extremities of the side members and to the central portion thereof, a ground digging member supported by the axle for vertical movement, and means supported by the forward end portions of the side members and operatively engaged with the plow for imparting vertical movement thereto.

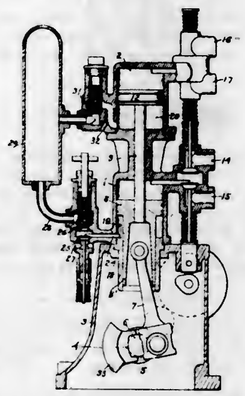
1,389,016. CARBURETER. ALFRED C. STEWART, Los Angeles, Calif. Filed Aug. 9, 1918. Serial No. 249,052. 3 Claims. (Cl. 261—50.)

3. A carbureter comprising a mixing chamber having an inlet valve seat in its bottom and a lateral outlet, an air valve coöperating with said valve seat and adapted to be opened by pressure of the air on its lower face and provided with fuel passage means opening into the mixing chamber peripherally of the valve, guide means extending upwardly from the mixing chamber, a stem for the air valve mounted to slide vertically in said guide means, said stem being provided with fuel passage means communicating with the fuel passage means in the said valve, a dash pot cylinder surrounding the said stem and guide means, means for supplying liquid fuel to said dash pot cylinder, tubular means surrounding said valve stem and extending down into the liquid fuel in the dash pot cylinder so as to conduct fuel from the dash pot cylinder to the passages in the air valve stem, a dash pot piston connected to said air valve and working in said dash pot cylinder and a



fuel valve mounted in the carbureter and having a taper portion extending within the said passage in the air valve stem, said stem being provided with a shoulder for coöperating with said taper portion to control the fuel supply.

1,389,017. RECIPROCATING ENGINE. ALFRED C. STEWART, Los Angeles, Calif. Filed Oct. 21, 1918. Serial No. 258,976. 6 Claims. (Cl. 123—192.)

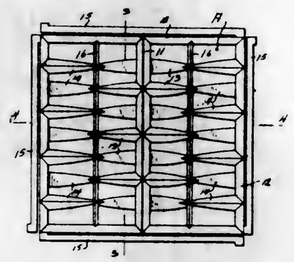


1. A reciprocating internal combustion engine comprising two combustion cylinder chambers and means for effecting alternate operation thereof on a four stroke cycle, a cushioning chamber and a pumping cylinder chamber, and piston means operating in the respective cylinder chambers aforesaid and operating to compress air in both the pumping and cushioning cylinder chambers during the expansion strokes in the combustion cylinder chambers, said pumping cylinder chamber being connected to said cushioning cylinder chamber to pump air thereinto.

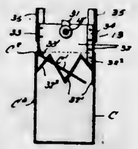
1,389,018. GRID FOR STORAGE BATTERIES. JOHN CLARENCE SUNDBY, Enderlin, N. D., assignor to Sundby Battery & Manufacturing Company, Enderlin, N. D., a Corporation of North Dakota. Filed Sept. 7, 1920. Serial No. 408,707. 2 Claims. (Cl. 204—29.)

2. A battery element or grid comprising a metallic, substantially polygonal frame, a plurality of separate and

independent, polygonal paste supporting units disposed within said frame, and connecting members extending approximately parallel to the sides of adjacent units, the connecting members of those units adjacent the outer frame being connected thereto at one end and at their other ends being connected each to one unit, the connecting members of those units not adjacent the frame being connected each at one end to the edge of one of said units and at its opposite end being connected to an adjacent unit, the body of each connecting member between said points of connection being entirely spaced from the adjacent unit or frame.

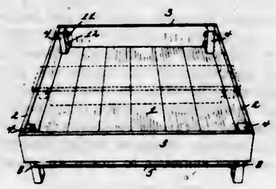


1,389,019. CAN-CUTTER. ERNEST B. TRACY, Seattle, Wash. Filed Oct. 16, 1919. Serial No. 331,145. 2 Claims. (Cl. 164—10.6.)



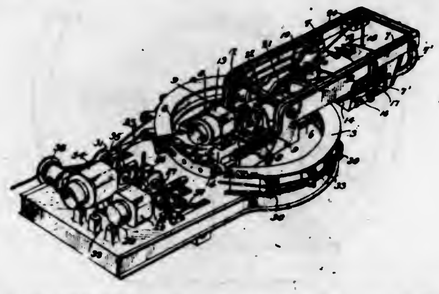
2. In a machine for cutting heads from cans, a reciprocatory cutter having three cutting blades and a head bending blade, said blades being arranged in rectangular relations, said cutting blades serving to cut the head along three of its sides, and said bending blade serving to force the head thus cut by said cutter blades into the can and against one of the side walls thereof.

1,389,020. CHILD'S SAND-BOX FOR PLAY PURPOSES. HENRY D. TUCKER, Avenel, N. J. Filed Dec. 3, 1919. Serial No. 342,060. 2 Claims. (Cl. 217—12.)



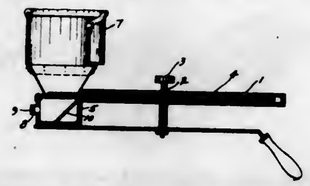
1. A knock-down sand box for play purposes having a bottom provided with end cleats and recessed corners, side and end walls, posts provided with grooves to fit into the recessed corners, the bottom and cleats to be received by said grooves and means passing through the posts and walls for binding the parts together.

1,389,021. LOADING APPARATUS. JAMES M. VEST, Dehue, W. Va. Filed Nov. 3, 1919. Serial No. 335,531. 23 Claims. (Cl. 37—39.)



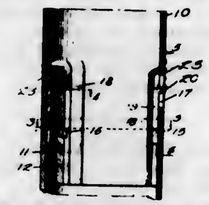
1. In loading apparatus of the class described, the combination of a horizontally swinging boom, a transversely arranged loading device connected thereto, and means connected to the loading device for shifting the same from loading to dumping position and vice versa.

1,389,022. TOOTH-FORM FINDER. FRANK M. WADSWORTH, Minneapolis, Minn. Filed Apr. 17, 1919. Serial No. 290,802. 6 Claims. (Cl. 88—14.)



1. A tooth form finder comprising a member provided with a multiplicity of independent and different outlines of various tooth forms, means associated with said member of producing a reduced outline image of a patient's face and reflecting it upon the member, and means for moving the first-named means and member relatively to bring any of said tooth form outlines and said facial outline into superposed position.

1,389,023. DETACHABLE-END BAILER. FRANCIS B. ALLDREDGE, Des Moines, Iowa. Filed Oct. 18, 1920. Serial No. 417,791. 3 Claims. (Cl. 166—19.)



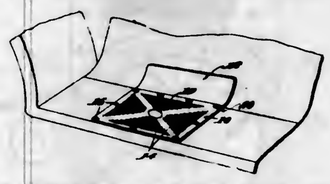
1. A detachable end bailer, comprising a bailer body, a bailer bottom member having an open end and a valve controlled end, a reduced member on said body adapted to be inserted within the open end of the bottom member, having open-ended channels formed therein, the walls of said channels and the walls of said reduced portion having inclined slots, inclined lugs on the interior of said bottom member adapted to slidably enter said channels and to enter said slots when the bottom member is rotated with relation to said body, and beveled keys slidably received within said channels, said lugs having beveled edges for co-acting with said keys.

1,389,024. PNEUMATIC TIRE. NATHANIEL BALDWIN, East Mill Creek, Utah. Filed Oct. 22, 1919. Serial No. 332,378. 4 Claims. (Cl. 152—20.)



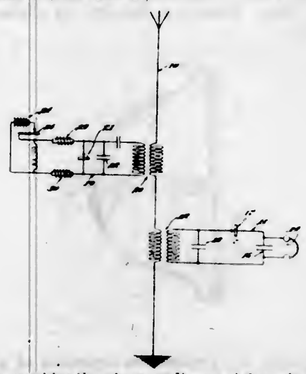
1. A pneumatic tire comprising an endless tube divided on its inner circumference and separated leaving a gap between its edges and a sealing device within said endless tube and bridging said gap, said sealing device comprising a band of pliable material reinforced by stiff material to prevent said sealing device being pressed into said gap.

1,389,025. TREAD. WILLIAM BERNSTEIN, Jamaica Plain, Mass., assignor to Panther Rubber Manufacturing Company, Stoughton, Mass., a Corporation of Massachusetts. Filed July 10, 1920. Serial No. 395,405. 1 Claim. (Cl. 280—169.)



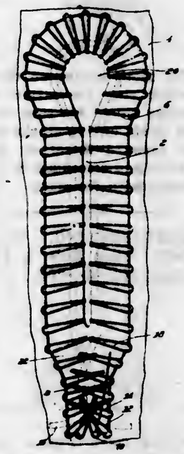
A tread member for motor vehicles or the like comprising a single integral molded member having a tread portion provided with scraper projections, fastener receiving openings disposed about the margin of the tread portion, a flexible guard member extending from one side of the tread portion of substantially uniform thickness throughout, and of lesser thickness than the thickness of the tread portion, and a reinforcing layer of fabric molded on to the under side of the guard member and extending across and beneath the tread member and certain of the fastener receiving openings to assist in causing the guard member to permanently conform to the curvature of that portion of the motor vehicle with which it contacts and to reinforce those fastener receiving openings beneath which it extends.

1,389,026. RADIO RECEIVING SYSTEM. VANNEVAR BUSH, Chelsea, Mass., assignor to American Radio & Research Corporation, Medford, Mass., a Corporation of Delaware. Filed May 19, 1920. Serial No. 382,672. 7 Claims. (Cl. 250—8.)



1. The combination in a radio receiving circuit having a detector of a resistance which is periodically rendered conducting and non-conducting, and circuit connections for causing the received oscillations to be periodically absorbed without passing through the detector.

1,389,027. STITCHED BUTTONHOLE. JOHN COFFEY, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 27, 1918. Serial No. 264,321. 3 Claims. (Cl. 112—264.)



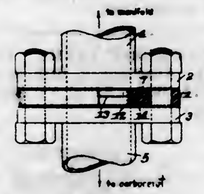
1. A fabric having an eye-ended stitched buttonhole comprising an overseam which turns through substantially 180° at the eye and through substantially 90° at its initial end and substantially 90° at its final end and has said ends superposed in line with and beyond the end of the buttonhole slit.

1,389,028. DIRECT-READING MICROMETER-CALIPER. ALBERT L. COLBURN, New Haven, Conn. Filed Mar. 4, 1920. Serial No. 365,238. 13 Claims. (Cl. 33—166.)



1. A micrometer caliper having a frame, an anvil, an externally threaded spindle mounted in the said frame so as to be normally non-rotatable, but adapted to be turned by unusual force for taking up wear between it and the anvil, and a rotary sleeve held against endwise movement and provided substantially throughout its length with internal threads with which the threads of the spindle directly co-act.

1,389,029. FUEL-HEATER FOR INTERNAL-COMBUSTION ENGINES. LOYAL A. COUCH, New York, N. Y. Filed Jan. 14, 1920. Serial No. 351,396. 2 Claims. (Cl. 219—38.)



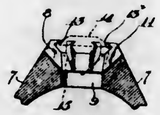
1. A fuel heater, comprising a mounting and an insulating collar fitting in an opening in the mounting, with carried resistance means, said opening being arranged to avoid contact with exposed portions of said means.

1,389,030. ARTIFICIAL TOOTH. HIRAM O. COWDRICK, Philadelphia, Pa. Filed Nov. 29, 1920. Serial No. 427,172. 3 Claims. (Cl. 32—9.)



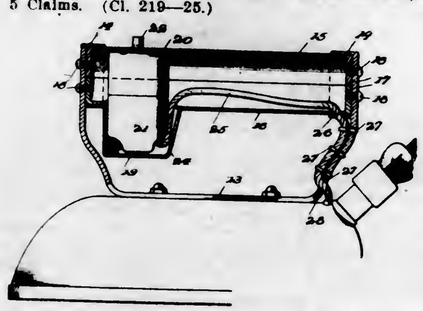
2. In an artificial tooth having on the back thereof, a rearwardly projecting rim, the latter having its sides undercut, a protecting shield for said rib adapted to incase the same, said shield having on the side walls thereof tongues projecting forward therefrom and staggered on the opposite side walls and embedded in the tooth adapted to connect said sheath with the tooth.

1,389,031. JEWELRY-SETTING. THOMAS CUMMING, Los Angeles, Calif. Filed June 7, 1920. Serial No. 387,043. 2 Claims. (Cl. 63—26.)



1. A jewelry setting comprising a member having a conical recess formed therein, a series of plates of platinum secured to the face of said recess, spaced apart from each other to form slots therebetween, a platinum prong in each slot having a lower edge resting on the face of said recess and having an upper edge substantially parallel to the lower face arranged to support the gem and a gripping point on each prong arranged to engage the gem.

1,389,032. ELECTRIC IRON. RALPH C. CURTH, Columbus, Ohio. Filed Feb. 10, 1920. Serial No. 357,649. 5 Claims. (Cl. 219—25.)



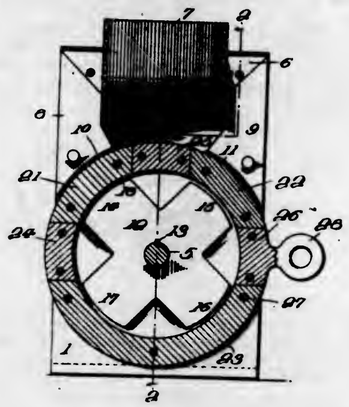
1. In an electric iron, a handle bracket, a hollow grip supported by the bracket and formed of mating sections, and a switch housed between the sections of the grip, the switch being operable for controlling flow of current to the heating coil of the iron.

1,389,033. AUTO-WINDOW FRAME. HENRY P. DAVIS, New York, N. Y. Filed Aug. 3, 1918, Serial No. 248,119. Renewed Oct. 25, 1919. Serial No. 333,376. 1 Claim. (Cl. 296—145.)



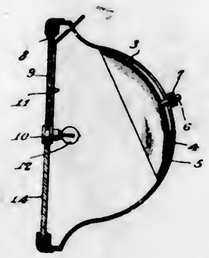
In a device of the class described, the combination of a frame section having inwardly extending flanges at each edge, a plurality of clips having bendable ends adapted to co-act with one of said flanges to secure a panel thereto, and a second frame section having a flange at one edge only and adapted to co-act with one of the flanges of the first said frame sections for securing the device to a curtain, and having a plurality of spring fingers extending completely around its flange for securing the sections together.

1,389,034. IGNITION-GENERATOR. WILLIAM WARREN DEAN, Stamford, Conn., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed Aug. 22, 1916. Serial No. 116,359. 6 Claims. (Cl. 171—252.)



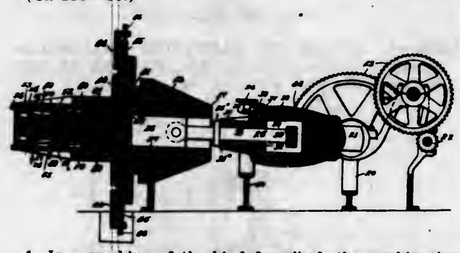
1. An ignition magneto comprising a stationary current generating coil, a core therefor, fixed pole pieces for said core, a rotating permanent magnet having a plurality of like poles, said pole pieces being so disposed relative to the magnet as to receive flux from adjacent poles of said magnet and shiftable pole pieces between the fixed poles and the poles of the magnet furnishing flux thereto, and a magnetic section so disposed relative to the rotating magnet as to short circuit the other poles of said magnet.

1,389,035. HEADLIGHT FOR AUTOMOBILES. LEON LAURENCE DORAY, Hamilton, Ontario, Canada. Filed July 3, 1920. Serial No. 394,012. 3 Claims. (Cl. 240—41.)



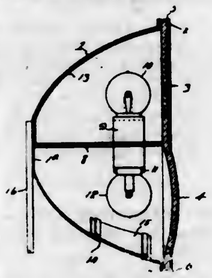
1. A headlight for automobiles consisting of a casing, an upright slot in said casing, a reflector changeably held in said slot, the upper half of the front of said casing having a semi-annular plate, the lower half of said front being provided with a transparent closure and a bulb suitably socketed in said plate.

1,389,036. SIZING-MACHINE. WILLIAM R. EDWARDS, Cleveland, Ohio, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 30, 1919. Serial No. 307,531. 12 Claims. (Cl. 153—35.)



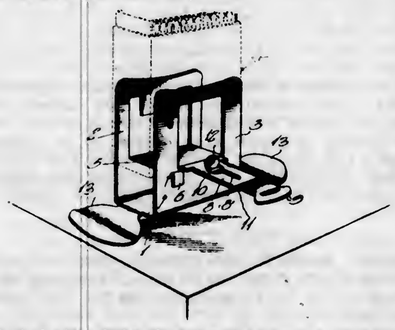
1. In a machine of the kind described, the combination with an expanding member, of a plurality of chuck segments and longitudinally movable antifriction devices interposed between said expanding member and the chuck segments.

1,389,037. LAMP FOR VEHICLES. NORMAN ELLIOTT, Cleveland, Ohio. Filed Apr. 28, 1921. Serial No. 465,262. 1 Claim. (Cl. 177—329.)



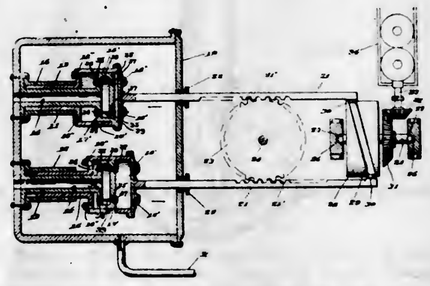
A lamp comprising a casing having an open round end, a partition extending from the closed end of the casing to the open end thereof and dividing the same into a pair of compartments, a pane covering the open end of the casing, said pane having a flat or plane portion covering one of said compartments and abutting against said partition and having on such flat or plane portion a warning signal on one side of the partition and on the opposite side a lens for a tail light, and a bulb for each compartment.

1,389,038. SMOKING-STAND. PAUL HENRY ESCH, Manitowoc, Wis. Filed Mar. 24, 1919. Serial No. 284,567. 5 Claims. (Cl. 131—51.)



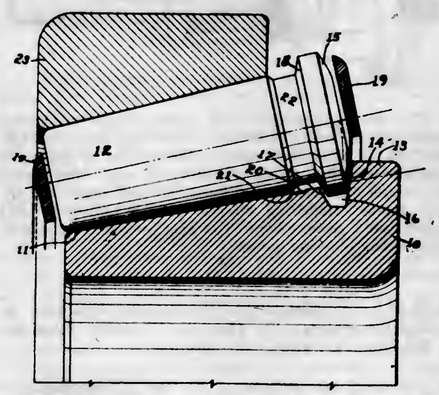
2. A device of the class described comprising an elongated plate whose two end portions are bent upwardly to form two parallel side plates adapted to grip a match box, the intermediate portions of said plates being stamped laterally in the same direction to horizontal positions, one of said portions being secured to the opposed vertical plate, and a cigar cutter mounted on the other of said portions.

1,389,039. AIR-COMPRESSOR. MARSHALL A. ESTES, Estes, Va. Filed Oct. 22, 1920. Serial No. 418,695. 2 Claims. (Cl. 230—27.)



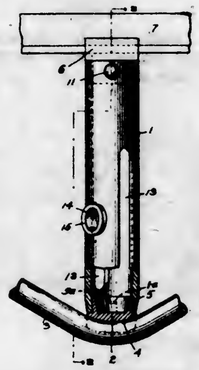
1. An air compressor comprising a tank, a tube rising from the bottom of the tank and having its inner end open, a cylindrical member rising concentrically within the tube, a pump cylinder having a hollow stem slidable between the cylindrical member and the tube, said cylindrical member having a valved piston head within the pump cylinder and a longitudinal bore therethrough, the pump cylinder having check valves, and means for reciprocating the pump cylinder.

1,389,040. ROLLER-BEARING. JOHN F. FLAHERTY, Toledo, Ohio, assignor to The Bock Bearing Company, Toledo, Ohio, a Corporation of Ohio. Filed Sept. 19, 1919. Serial No. 324,976. 1 Claim. (Cl. 64—39.)



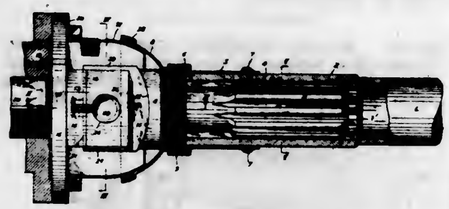
In a tapered roller bearing, a conical inner member having an abutment and a groove adjacent to said abutment, and a plurality of rollers assembled with said member and having enlarged heads entering said groove and restrained from endwise movement by the sides thereof, the outer sides of said heads normally contacting with said abutment to take the roller end thrust, each of said rollers having a groove between its head and rolling surface, and said member being cut away from the projected cone of its rolling surface so that the distance from said abutment to the larger end of said rolling surface will be the same as the distance from the outer side of the heads of the rollers to their rolling surfaces, as measured on the projected cones of said rolling surfaces.

1,389,041. BRAKE-BEAM FULCRUM. WILLIAM E. FOWLER, Jr., Pittsburgh, Pa., assignor to Liberty Steel Products Company, Inc., a Corporation of New York. Filed July 23, 1919. Serial No. 312,815. 13 Claims. (Cl. 188—231.)



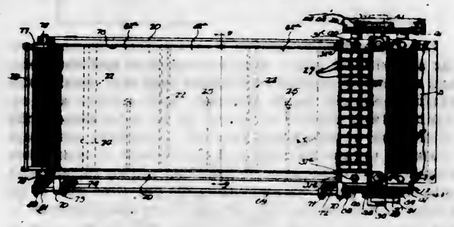
1. A strut for a trussed brake beam, formed substantially of wrought metal tubing and provided with a lever fulcrum between its ends.

1,389,042. DRIVING MECHANISM. HARRY B. GARMAN, Detroit, Mich., assignor to Charles E. Thompson, Cleveland, Ohio. Filed June 7, 1919. Serial No. 302,379. 2 Claims. (Cl. 64—91.)



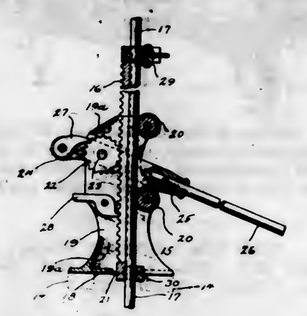
2. In driving mechanism, the combination with a hollow propeller shaft and transmission means such as the change-gear set; of a sleeve forming a continuation of said shaft and butt-welded to the inner end of said shaft; and centering means disposed intermediately of said shaft and set, said means comprising internal splines formed in said sleeve and a member secured to said set and formed with coöperating external splines.

1,389,043. INTERLACING-MACHINE. RUDOLPH W. GLASNER, Chicago, Ill. Filed Apr. 28, 1919. Serial No. 293,346. 11 Claims. (Cl. 38—8.)



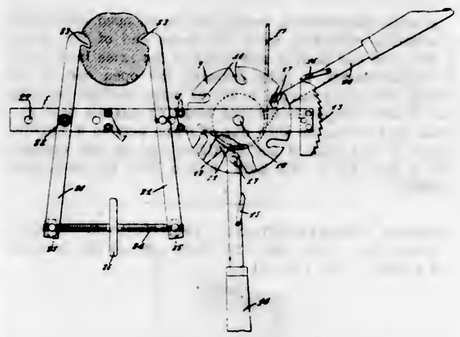
5. A needle bar for interlacing machines embodying a body portion provided with a recess opening through one end and arranged to one side of the diametric center of said end, a needle proper adapted to be seated in said recess, and coöperating means on the needle bar and needle for properly positioning the needle with respect to the needle bar when the needle is seated in said recess.

1,389,044. DEVICE FOR ELEVATING WALL-MOLDS. FRANK O. GOODMAN, Chicago, Ill. Filed July 10, 1920. Serial No. 395,228. 4 Claims. (Cl. 25—131.)



1. The combination with a vertically movable wall mold form, and an upright rod stationary relative to said form; of a stand fastened to a top portion of the form, a pinion carried by the stand, operating means for the pinion, a vertical rack in mesh with the pinion, and means for detachably coupling the rack to the aforesaid rod.

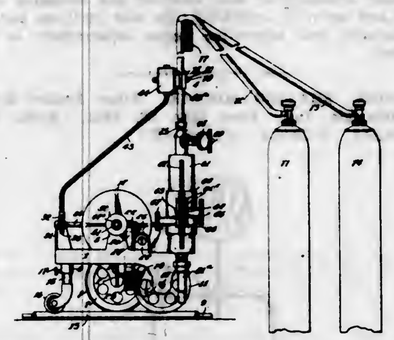
1,389,045. WIRE-STRETCHER. BENJAMIN J. GREER, Poyner, Tex. Filed Nov. 26, 1920. Serial No. 426,479. 6 Claims. (Cl. 254—82.)



1. In a device of the character described, a frame including a pair of spaced arms, pivoted arms carried by the frame and having hooked members formed on the inner ends thereof, the latter arms adapted to be clamped around a post, means for securing the latter arms against movement, a stretching drum, and operating arms adapted to be connected with the stretching drum for clamping a wire thereto.

1,389,046. MACHINE FOR CUTTING AND WELDING WITH FLUID FUEL. JOHN HARRIS, Lakewood, Ohio. Filed Oct. 15, 1917. Serial No. 196,703. 15 Claims. (Cl. 266—23.)

1. In a machine of the character described, the combination, with a carriage, of a torch or blow pipe supported thereby, tubing conducting a gas or gases to said blow pipe, a motor supported independently of said carriage, and a



flexible driving connection between said motor and said carriage for propelling the latter.

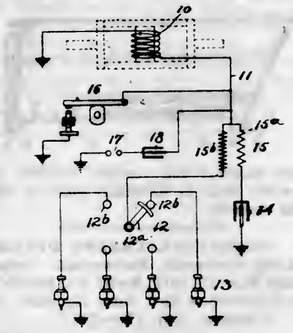
1,389,047. RUPTURE APPLIANCE. ALEXANDER LEON HATZAN, Niagara Falls, Ontario, Canada. Filed Aug. 9, 1920. Serial No. 402,249. 1 Claim. (Cl. 128—101.)



An appliance of the character described, comprising a rubber pad having its inner wall convex, and its outer face flat, an elastic band extended from end to end of said pad on the flat face thereof with one end extended beyond the pad, a leg band attached to said extended end, and formed of non-elastic material, said leg band having a looped portion with a terminal with fasteners, and a waist band formed of non-elastic material with one end attached to said elastic band and the other end looped and provided with a terminal with fasteners, and a clamping member securing the elastic band intermediate its ends to said pad.

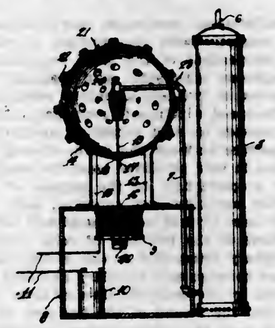
1,389,048. IGNITION SYSTEM. DOW B. HUGHES, New York, N. Y., assignor, by mesne assignments, to Motor Ignition & Devices Company, a Corporation of West Virginia. Filed Nov. 17, 1911. Serial No. 660,783. 7 Claims. (Cl. 123—148.)

1. In an ignition system, a spark plug, a source of current, a condenser, a disruptive discharge coil having its primary connected to the condenser, and its secondary connected to the spark plug, means for causing periodic charging of the condenser from the source of current and the discharge thereof through said primary comprising a circuit breaker having connection with the source and with the condenser, said system having means for preventing the condenser discharging across the terminals



of the circuit breaker, and including a spark gap device for the condenser.

1,389,049. FIRE-EXTINGUISHER. PATTON JACOBS, Montreal, Quebec, Canada. Filed July 3, 1920. Serial No. 393,966. 2 Claims. (Cl. 169—10.)

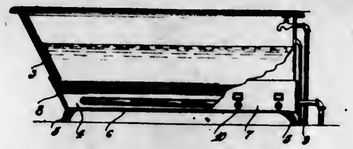


1. A fire extinguisher consisting of a pressure tank, a water inlet means to said tank, a water outlet means from said tank, a casing, magnetic means in said casing, batteries in said casing, thermostats suitably positioned around a room, wire connections between said thermostats and said battery and magnetic means, a globular member mounted on said casing, said globular member having radial spaced openings, nozzles threaded into the said openings, said outlet pipe extending into said globular member and threadedly engaged to a valve, said valve having a longitudinal opening and a transverse set of openings, a plunger in said longitudinal opening having a longitudinal opening therein and a transverse opening, which transverse opening registers opposite said transverse openings when said plunger is in uppermost position, an operating rod attached at its upper end to the lower end of said plunger and extending through said globular member, and a head in the lower end of said rod so positioned as to be operated by said magnetic means.

1,389,050. HEATER FOR BATHTUBS, LAUNDRY-TUBS, OR THE LIKE. WALTER OLIVER JARRETT, Toronto, Ontario, Canada. Filed June 9, 1920. Serial No. 387,685. 1 Claim. (Cl. 126—350.)

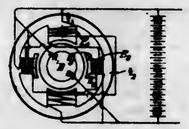
An elongated heating chamber, means for supporting the same, heating elements within said heating chamber with a plurality of controlling means therefor, and a bath-tub independent thereof and frictionally retained therein and provided with inlet and outlet pipes, said bath-tub being detachably fitted within the heating cham-

ber and the said heating chamber having one end extended upwardly at an inclination, the other end being substantially vertical, and the ends of the bath-tub being cor-



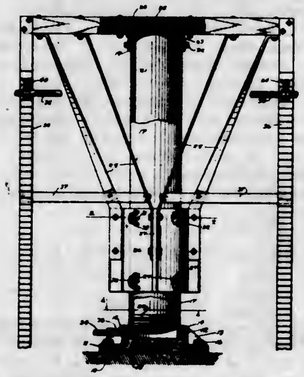
respondingly inclined and vertical, whereby the weight of the bath-tub tends to wedgingly hold the same within the heating chamber.

1,389,051. CONTINUOUS-CURRENT DYNAMO. FRITZ KESSELRING, Neuhausen, Switzerland. Original application filed July 17, 1916, Serial No. 109,800. Divided and this application filed June 12, 1920. Serial No. 388,699. 2 Claims. (Cl. 171—223.)



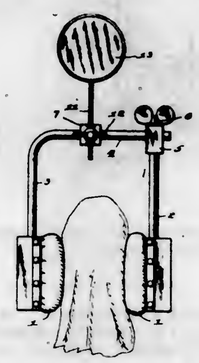
1. A variable-speed continuous current dynamo having two main magnetic poles the strength of which is substantially independent of the speed variations, in alternate arrangement with said main magnetic poles, two auxiliary poles, a two-pole armature relatively movable at a variable speed within said main and auxiliary poles, two main brushes on said armature, an auxiliary brush on said armature between the main brushes, and means for producing in said auxiliary poles two magneto-motive forces, one proportionate to the number of revolutions and the other approximately constant, said means comprising two sets of field coils energising said auxiliary poles, the first of the two sets of coils being connected to said auxiliary brush and to one of the main brushes, the armature between said auxiliary and said main brush being affected by the magnetic lines of force of the main poles only and the second of the two sets of coils being connected to said two main brushes in such a manner that the magnetising effect of said second set of coils is opposed to the magnetizing effect of said first set of coils.

1,389,052. VEHICLE-TILTING DUMPING-PLATFORM. AUGUST P. KRZEMA, Denver, Colo. Filed July 28, 1920. Serial No. 399,604. 10 Claims. (Cl. 187—9.5.)



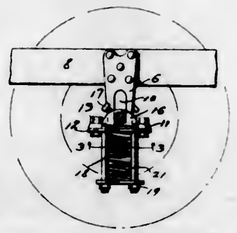
1. In dumping apparatus of the character set forth, the combination of a fixed standard, an elongated support longitudinally slidable therealong, a platform section mounted upon the upper end of said elongated support, elevating means therefor, and unitary means for centering and guiding said platform section, comprising a hollow member encompassing said standard and elongated support and centrally suspended from said platform section by suitable rigid supporting means, substantially as described.

1,389,053. SHAVING-MIRROR. HARRY JOSEPH KING, Oaklandon, Ind. Filed Mar. 22, 1921. Serial No. 454,455. 3 Claims. (Cl. 45—97.)



1. A device of the class described including a pair of pads, means slidably connecting said pads whereby they may be moved relatively, a set screw for locking said pads in adjusted position, and a mirror supported on said connecting means.

1,389,054. SHOCK-ABSORBER. CHARLES H. KUGLER, Lexington, Nebr. Filed Apr. 14, 1919. Serial No. 290,069. 3 Claims. (Cl. 267—60.)

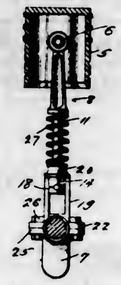


1. The combination with a vehicle and axle therefor, of a supporting member secursed to the vehicle and having a slot therein for the reception of said axle, a member carried by said axle on each side of said slotted member, means for joining said members, and spring means interposed between said joining means and said slotted member.

1,389,055. YIELDABLE CONNECTING-ROD. CHARLES H. KUGLER, Lexington, Nebr. Filed Apr. 14, 1919. Serial No. 290,070. 1 Claim. (Cl. 74—48.)

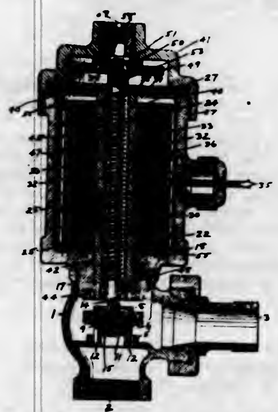
A yieldable connecting element comprising a rod having one free end screwthreaded, an abutment on the rod spaced from the ends thereof, a guide head threaded upon the threaded end of said rod and having flat sides, a guide cage having an axially extended opening in its inner end to receive one end of said rod, and provided with a slot for the reception of the guide head, the flat

side of said head being adapted to engage opposite sides of the slot, whereby the head may be removed from the



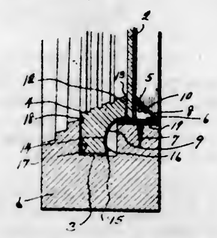
rod by turning the cage, and a coiled spring on the rod between the abutment thereon and the inner end of the cage.

1,389,056. ELECTROMAGNET AND VALVE. EDWIN B. LANE, West Hoboken, N. J. Filed Oct. 6, 1916. Serial No. 124,048. 2 Claims. (Cl. 137—139.)



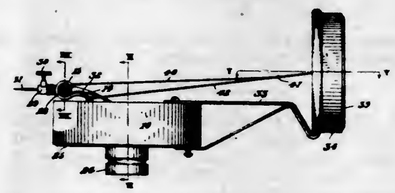
1. An electromagnetic device, combining a magnet, a core within the magnet, a disk, a non-magnetic annulus between core and disk and flush with the disk, a casing provided at one end with a seat, means for securing the core within the casing at the other end of the casing, to bring the disk against said seat to protect the magnet windings from extraneous fluid, and a disk parallel to the first disk and movable toward and away therefrom.

1,389,057. MOLDING AND METAL FASTENER FOR SASHES AND WINDOW-PANES. MOSES LAVIGUE, Holyoke, Mass. Filed Feb. 2, 1921. Serial No. 441,952. 8 Claims. (Cl. 20—56.4.)



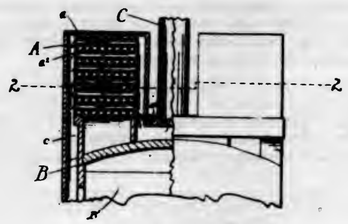
1. In a window pane fastener, the combination with a sash rail having a channel, of a metal fastening strip secured to said rail and having its outer portion bent inwardly to form a flange provided with weather proof material to engage the outer face of the pane of glass, which glass is mounted upon the surface of the strip, a molding seated in the channel and having a beveled outer face adjacent the inner face of the pane of glass, whereby the outer edge of the molding may bear against the pane of glass immediately opposite the weather proof strip, said metal strip having means extending into the channel, to hold the molding in position.

1,389,058. PHONOGRAPH. JAMES T. LEITCH, Allentown, Pa., assignor of two-fifths to Tilghman A. Freed, Allentown, Pa. Filed Aug. 12, 1920. Serial No. 403,115. 4 Claims. (Cl. 274—35.)



1. In a device of the kind described, a sound box having a diaphragm, needle arm brackets at one side of the diaphragm, a needle arm connected to the diaphragm and having a fulcrum arranged transversely thereof and supported in the brackets, a second sound box diametrically opposite the needle arm brackets and likewise provided with a diaphragm, and an elastic connector extending transversely across the first sound box and connected to the needle arm at one end and to the diaphragm of the second sound box at the other.

1,389,059. AIR-PREHEATING MECHANISM FOR MILL-FURNACES. WILLIAM W. LESTER, Cincinnati, Ohio. Filed May 8, 1920. Serial No. 379,736. 3 Claims. (Cl. 263—20.)



1. The combination with a metal heating furnace, of means adapted to create a forced air draft, means adapted to subject the forced air draft to the heat of the exhaust gases, and means to convey the forced air draft, after it is heated, to the furnace fires.

1,389,060. POTATO-PLANTER. WILHELM LIPPITZ, Jauer, Germany. Filed Sept. 18, 1919. Serial No. 324,721. 7 Claims. (Cl. 221—127.)

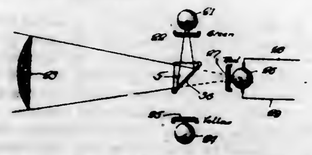
1. In a potato planter, the combination with a rotary dropping drum closed at one side face and having an axial opening in its opposite face and equipped around the opening with carrying members and internally of the opening with picking out members, and a storage member projecting into the dropping drum and through the axial opening thereof and forming with the carrying members sectional chambers in the drum and formed with a dis-

charge opening located in position for delivering the potatoes picked out by the picking out members to the



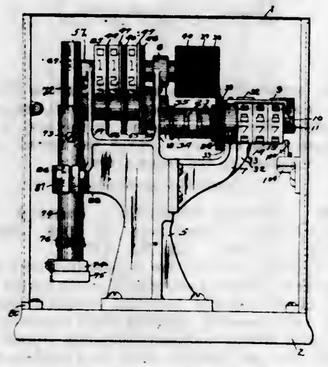
dropping drum, each of said sectional chambers being provided with a discharge opening.

1,389,061. **SIGNAL SYSTEM.** Daniel J. McCarthy, Elgin, Ill., assignor to Chicago Railway Signal and Supply Company, Chicago, Ill., a Corporation of Illinois. Filed June 28, 1920. Serial No. 392,354. 2 Claims. (Cl. 177—337.)



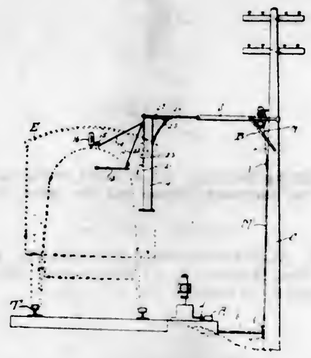
1. A signal system having a plurality of lamps angularly related with respect to a common center, one of said lamps arranged to project its light directly to an objective point; a reflector, located at said center, to reflect the light of the other lamps, alternatively, to said point, normally below the field of illumination of the first mentioned lamp; electric means to raise the reflector into the field of illumination of said lamps and electric means to properly rotate the reflector, to obscure the light from the first mentioned lamp and to provide means whereby to direct the light from one of the other lamps to said objective point, said other lamp and the electric raising and rotating means being in series circuit.

1,389,062. **POSTAGE-MARKING MACHINE.** Edward M. McGowan, Toledo, Ohio. Filed Jan. 17, 1921. Serial No. 437,689. 6 Claims. (Cl. 101—91.)



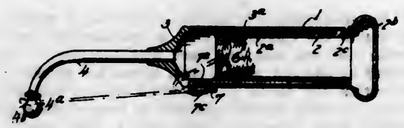
1. In a postage marking mechanism a plurality of independent operable stops, a marking mechanism, means operating according to the position of the stops for limiting the operations of the stamping mechanism to a predetermined number.

1,389,063. **TRAIN-CONTROLLING MECHANISM.** William J. McKibben, Steubenville, Ohio. Filed June 6, 1921. Serial No. 475,346. 5 Claims. (Cl. 246—186.)



1. A train controlling apparatus comprising in combination, an upstanding hollow standard carried by the locomotive, a trap door therein, means for holding the trap door in a raised position, a weighted member adapted to rest upon the trap door and to drop downwardly of the hollow standard when the trap door is released, a locomotive including a lever for controlling the motive force therefor, said weighted member being operatively connected with the lever, said weighted member when dropped moving the lever to a position to cut off the motive force, and means positioned adjacent the path of travel of the locomotive for releasing the holding means for the trap door.

1,389,064. **DENTAL-FLOSS HOLDER.** Oliver O. Martin, Chicago, Ill. Filed May 22, 1920. Serial No. 383,490. 5 Claims. (Cl. 132—92.)

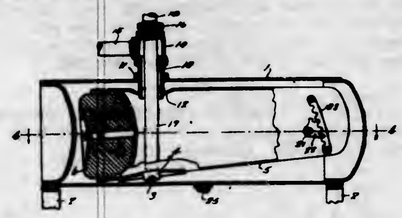


1. In a dental floss holder three tubular members telescoping within each other and capable of holding a bobbin of dental floss, the outer member having a fixed floss fastening clip, one of the inner members made with a fixed bow projecting in one direction, the second inner member capable of moving the first inner member longitudinally and provided with an operating knob projecting in the opposite direction.

1,389,065. **TILTING OR GRAVITY TRAP.** Henry J. Mastenbrook, Lakewood, and Charles C. Lauritsen, Cleveland, Ohio, assignors to The Ohio Blower Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 30, 1919. Serial No. 320,941. 10 Claims. (Cl. 137—103.)

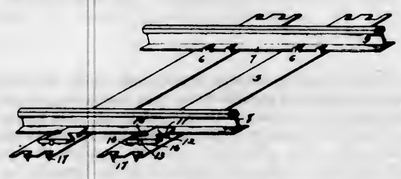
1. In a trap of the character set forth, the combination of a casing, a vessel pivotally supported within the casing, the vessel being weighted to repose normally in a given position, means for conducting water of condensation directly into the vessel to the exclusion of the casing, the vessel being designed to tilt from normal position

under the weight of an accumulation of water therein, a discharge conduit leading from the interior of the vessel,



a valve in said conduit, operative connections between the vessel and valve, and means for admitting pressure fluid to the casing.

1,389,066. **STEEL MINE-RAIL TIE.** Patrick J. Murphy, Dubois, Pa. Filed Dec. 27, 1920. Serial No. 433,193. 5 Claims. (Cl. 238—10.)



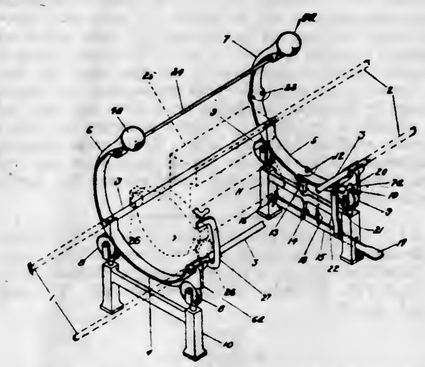
1. A metallic tie of the character described comprising as an integral structure a body portion, abutments carried thereby adapted to engage over the inner edges of the base flanges of the rails, hooks struck from the upper face of the tie outwardly of the rail which project toward each other and are spaced above the upper face of the tie, in combination with substantially flat clamping plates adapted to slide beneath said elements and engage over the outer base flange of the rail and means for preventing outward movement of said clamping plates.

1,389,067. **UNDERGARMENT FOR WOMEN.** Mary D. Neilson, Minneapolis, Minn. Filed Aug. 21, 1920. Serial No. 405,139. 5 Claims. (Cl. 2—144.)



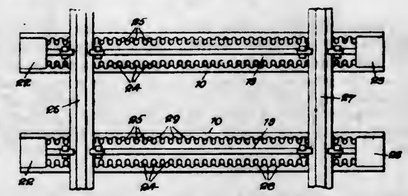
1. A woman's undergarment comprising a back member having the central portion of the bottom edge concavely curved throughout its length, a front member having its center cut along a straight line a predetermined distance, and an insert sewed along one edge to the edges of said central cut and along another edge to the curved edge of the back member.

1,389,068. **ASSEMBLING-CRADLE.** Charles W. Olson, Detroit, Mich., assignor to Continental Motors Corporation, Detroit, Mich., a Corporation of Virginia. Filed Feb. 16, 1920. Serial No. 358,987. 9 Claims. (Cl. 29—89.)



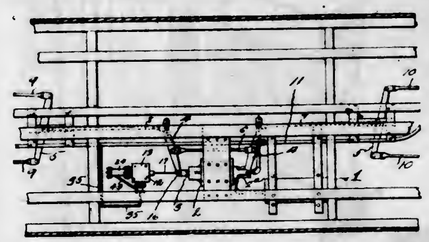
1. In a device of the class described, the combination of circular frame members, tracks secured to said frame members and extending between them, rollers supporting said members, and locking devices for holding said members in desired position on said rollers, said members having outwardly projecting flanges and said rollers having grooves engaging said flanges.

1,389,069. **METALLIC TIE.** Charles Paff, New York, N. Y. Filed Dec. 20, 1920. Serial No. 431,946. 3 Claims. (Cl. 238—60.)



1. In a metallic tie formed of sheet metal to provide an elongated body of substantially the shape of an inverted U in cross section, transverse corrugations extending from the base of each vertical wall of the body to and including the adjacent lengthwise marginal edge parts of the bridging wall of the body and the curvilinear dimensions of the corrugations being deeper at the junctures of the walls of the body than the other parts of the corrugation.

1,389,070. **AIR-BRAKE LOCK.** Anton Wilhelm Paulson, Omaha, Nebr. Filed Nov. 17, 1919. Serial No. 338,576. 3 Claims. (Cl. 303—89.)



3. An air brake lock comprising a shaft axially movable in a casing, said shaft having one of its ends connected to

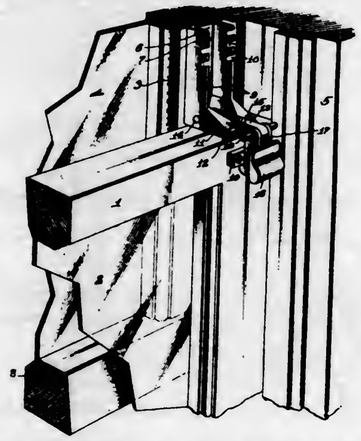
the brake operating mechanism of a car, said shaft being axially movable in bearings and having a spiral groove, a ratchet wheel disposed on the shaft and having a corresponding spiral rib disposed in the spiral groove of the shaft, one end of the shaft being provided with a piston movable in a cylinder and being normally held against axial movement by the air within the train line, means for axially moving the shaft when the train line is uncoupled, a detent coöperating with the ratchet wheel to prevent retrograde movement of the same when the same is rotated by the axial movement of the shaft, air tripping means for releasing the detent lever when the train line is coupled to another car thereby allowing the axially movable shaft to be forced axially to its brake releasing position and means whereby the air utilized for said tripping means will be allowed to exert pressure for moving the axially movable shaft.

1,389,071. LIQUID-DAUBER. WALTER C. PESSELS, Brookline, Mass., assignor to Whittemore Bros. Corp., Cambridge, Mass., a Corporation of Massachusetts. Filed Feb. 21, 1921. Serial No. 446,833. 2 Claims. (Cl. 91—67.2.)



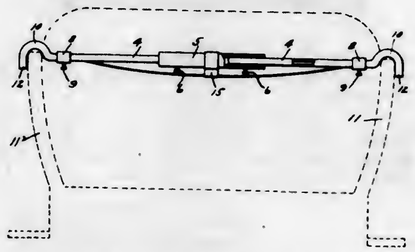
1. In a dauber, a shank formed of wire having end portions located in spaced relation, and a twisted central portion and means for securing an absorbent material at one end of the twisted portion, the ends of the wire extending diagonally upward from the center of the bottom of the cork toward points located in diametrically opposed positions in the upper corner of the cork and reinforcing the cork.

1,389,072. WINDOW-LOCKING DEVICE. EPHEEM A. ROSENBERG, Detroit, Mich. Filed June 24, 1920. Serial No. 391,267. 5 Claims. (Cl. 292—114.)



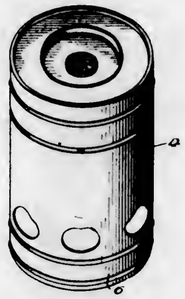
1. The combination of an upper sash, a lower sash, a keeper on the inner face of said lower sash, and an arm carried by a side rail of said upper sash above the meeting rail thereof and adapted to be shifted by the meeting rail of said lower sash engaging the lower end of said arm when said lower sash is raised to cause said arm to engage said keeper and connect said sashes so that the upper sash may be lowered with the lower sash.

1,389,073. VEHICLE ATTACHMENT. ARTHUR R. SCHLÖSSER, Plankinton, S. D. Filed Dec. 3, 1920. Serial No. 427,935. 4 Claims. (Cl. 5—72.)



1. A bed for a vehicle having side closures, including two substantially parallel bars, each consisting of two end sections and an intermediate section, at least one of the end sections being in telescopic relation to the intermediate section and adjustably secured thereto, the remote end portions of the end sections being adapted to rest upon the closures and having depending parts to prevent displacement of the bars, cross members interconnecting the corresponding end sections of the bars, and a body-supporting element carried by the cross-members.

1,389,074. FORMALDEHYDE-FUMIGATOR. WILLIAM H. SHARP, Chicago, Ill., assignor to Bauer & Black, Chicago, Ill., a Corporation of Illinois. Filed Oct. 29, 1919. Serial No. 334,207. 5 Claims. (Cl. 167—3.)

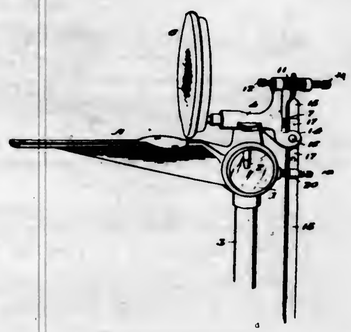


1. A fumigator comprising a body, a receptacle containing a charge of disinfecting material mounted in the body and having an opening at the top thereof, and a seal normally closing said opening and adapted when heated to permit the escape therethrough of gas generated in the receptacle.

4. A fumigator comprising a body, a disinfectant receptacle mounted in said body and having an opening therein, and a seal normally closing said opening and consisting of blotting paper saturated with paraffin.

1,389,075. OIL-CONTROL VALVE. HENRY M. SHEER, Quincy, Ill. Filed July 10, 1920. Serial No. 395,421. 7 Claims. (Cl. 158—36.)

1. The combination of an oil pipe, means for discharging oil therinto, a valve for controlling the flow of oil, two levers in position to control the valve, said levers constructed and adapted to move independently of each other



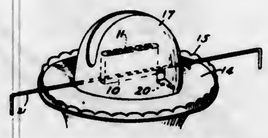
in one direction, and in position to actuate the valve, and adjustment screws for each of said levers.

1,389,076. MINING-LOCOMOTIVE. WILLIAM W. SLOANE, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 25, 1918. Serial No. 263,997. 8 Claims. (Cl. 105—50.)



1. An articulated locomotive comprising a central section, two end sections, four wheels for each of said end sections, two at each side thereof, a pivotal connection between each end section and the central section, each of said pivotal connections comprising a projecting part, a receiving part for receiving said projecting part, means for maintaining angular rigidity between the projecting part and receiving part in all vertical planes, a support for said receiving part and a rocking connection between said receiving part and said support.

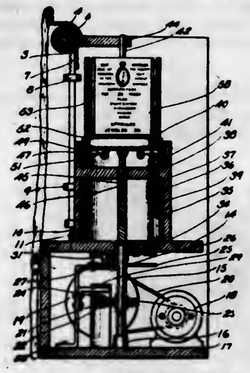
1,389,077. LAMP. EDWARD WARREN SMEETON, Long Island City, N. Y. Filed Jan. 29, 1919. Serial No. 273,827. 4 Claims. (Cl. 67—68.)



1. In an oil burning lamp, the combination of a burner, having a wick therein, an inclosure for the upper portion of the burner, a flat tapered wick trimmer having both edges arranged to trim the wick, and an operating rod therefor extending through and supported by the inclosure.

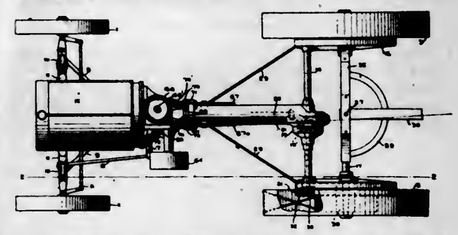
1,389,078. DISPLAY DEVICE. MATHEW SPINELLO, Kansas City, Mo. Filed Dec. 8, 1920. Serial No. 429,270. 8 Claims. (Cl. 40—76.)

1. A display device comprising a casing, a rotatable table within the casing, a rotatable disk above the rotatable table having movement independent thereof, and means



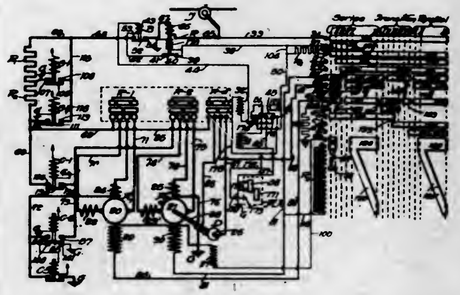
on the rotatable table for intermittently rotating the rotatable disk.

1,389,079. TRACTOR. EDWIN GUSTAVE STAUDE, Minneapolis, Minn. Filed July 10, 1917. Serial No. 179,651. 5 Claims. (Cl. 180—14.)



1. The combination, with a rear axle and power driven traction wheels therefor, supports mounted on said axle, a bolster supporter hinged on said supports, and extending substantially parallel to said axle, for receiving a bolster, a king-bolt for pivotally securing said bolster to said bolster supporter and providing a draft connection for the reach or pole of a trailer.

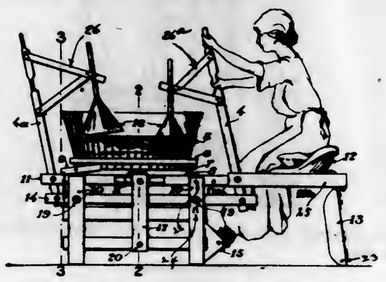
1,389,080. SYSTEM OF MOTOR CONTROL. LEIGH J. STEPHENSON, Chicago, Ill., assignor to William T. Fenton, Benjamin V. Becker, Lynn A. Williams, George B. Burrage, and Leigh J. Stephenson, trustees, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 341,243. 10 Claims. (Cl. 172—179.)



10. The combination with a plurality of motors having field windings of a regulating dynamo connected in series with said field windings in such a manner as to oppose

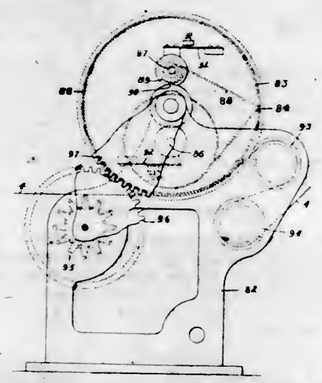
the voltage impressed on said field windings, a reversing switch for each of said motors and for said regulating dynamo, remote control means for controlling the operation of said motors, and remote control means for causing all of said reversing switches to operate simultaneously.

1,389,081. WASHING-MACHINE. CLIFFORD GARL SWEET, San Diego, Calif. Filed Oct. 12, 1920. Serial No. 416,518. 6 Claims. (Cl. 259—86.)



1. In a washing machine, a tub support and means for simultaneously rotating and reciprocating said tub support.

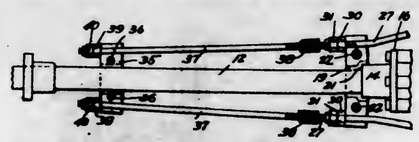
1,389,082. FILM-CLEANING APPARATUS. ALBERT TEITEL, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill., a Partnership composed of Albert Teitel, Abe Teitel, and John Leeffel. Filed Sept. 27, 1919. Serial No. 326,829. 8 Claims. (Cl. 15—8.)



1. In a film cleaning machine, a rotatable drum arranged to support a cleaning web on its periphery, and means arranged to move the web around the periphery of the drum for renewed engagement with the film, and which web movement is automatically effected by the rotation of the drum.

1,389,083. BRACE FOR AXLE-HOUSINGS IN AUTOMOTIVE CARS. JAMES J. WALLEY, Anoka, Minn., assignor of one-half to Charles R. Porter, Anoka, Minn. Filed Mar. 17, 1919. Serial No. 283,024. 1 Claim. (Cl. 74—56.)

The combination, with a rear axle, a differential gearing housing and drive shaft housing secured thereto, of a strap embracing and seated on said differential gearing housing, a clamp mounted on said drive shaft housing and having sockets to receive the ends of said strap, a second clamp

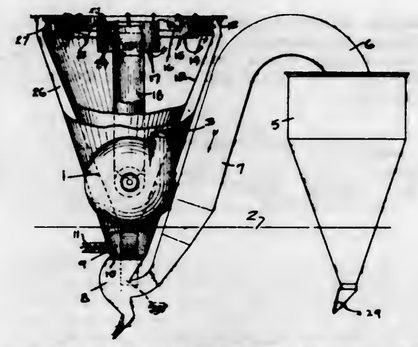


mounted on said drive shaft housing and means connecting said second clamp with the ends of said strap.

1,389,084. NON-CONDUCTING PLASTIC COMPOSITION OR CEMENT KNOWN AS PLASTIC ENAMEL. LAWSON B. WILSON, Washington, D. C. Filed May 7, 1920. Serial No. 379,548. 2 Claims. (Cl. 87—17.)

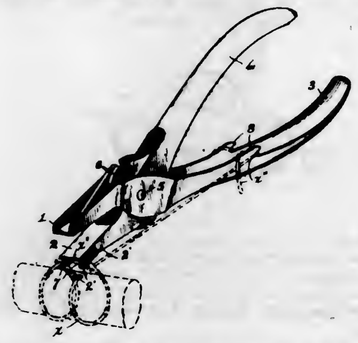
1. A nitrocellulose composition containing celluloid, four parts; acetone, five parts; phenol, three parts, all by volume.

1,389,085. SEPARATOR. GEORGE L. YAGER, Oakland, Calif. Filed Mar. 11, 1920. Serial No. 365,114. 9 Claims. (Cl. 83—40.)



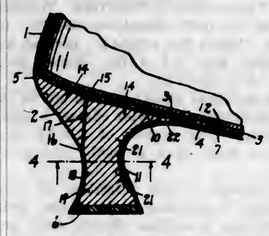
1. In combination with a pneumatic separator, a series of substantially vertical baffle plates adjustably suspended from the upper end thereof and arranged at different levels between the inlet and the outlet from said separator.

1,389,086. HOSE-REPAIRING TOOL. JOSEPH F. YODGES, Depew, N. Y. Filed Mar. 23, 1921. Serial No. 454,611. 2 Claims. (Cl. 81—9.3.)



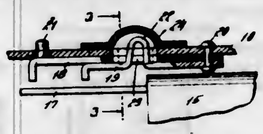
1. A device of the class described comprising a pair of pliers, the end of one jaw of the pliers being provided with a notch and rearwardly extending wire engaging projections on the handle of the opposite jaw, substantially as described.

1,389,087. SHOE-HEEL. JOSEPH A. ZAHN, Cincinnati, Ohio. Filed Feb. 13, 1920. Serial No. 358,459. 5 Claims. (Cl. 36—34.)



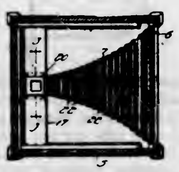
5. A shoe heel of the character described, a heel therefor, and metal bands extending from the inside of the shoe at said heel, down to and over the face of the heel, at the back part and breast thereof, to bind the same against breakage.

1,389,088. SWITCH. ERNST ALSCHULER, St. Louis, Mo., assignor, by mesne assignments, to National Carbon Company Inc., Cleveland, Ohio, a Corporation of New York. Filed June 9, 1917, Serial No. 173,689. Renewed Jan. 22, 1921. Serial No. 439,319. 7 Claims. (Cl. 200—60.)



3. A switch for battery hand lamps comprising, in combination, a pair of spring-contact elements, means associated with one of said elements whereby both of said elements may be actuated simultaneously, and means associated with the other of said elements whereby it may be actuated independently of said first-named element.

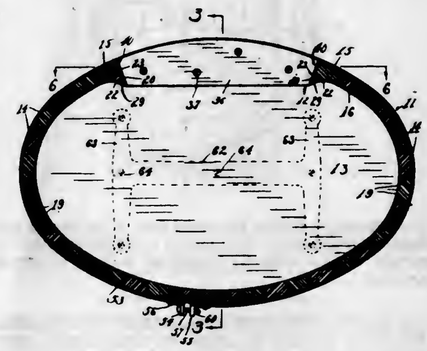
1,389,089. PHONOGRAPH. JOHN N. ANDERSON, Chicago, Ill. Filed Apr. 28, 1919. Serial No. 293,220. 2 Claims. (Cl. 181—27.)



1. In a phonograph a horn angular in cross section having a plurality of tapering walls of relatively thin material and spaced apart cleats secured to the outer surfaces of said walls at frequent intervals.

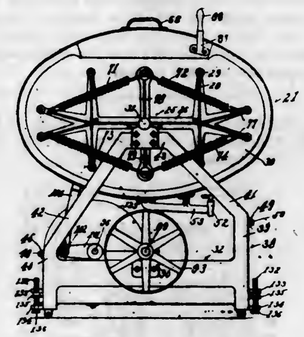
1,389,090. WASHING-MACHINE TUB. ROBERT J. ANDERSON, Sidney, Ohio. Filed Aug. 16, 1917. Serial No. 186,622. 1 Claim. (Cl. 68—21.)

In a washing machine tub having an opening, the combination of an end wall at each end of said tub, staves received about said end walls and comprising an end-stave provided with an inward extension at each side of said opening, said end-staves forming the side walls of said opening, each of said end-walls provided with an extension at said opening between said end-staves, each of said end-staves at each end thereof provided with a groove at its inner face presented toward the inner part of said tub and with a groove at the side thereof presented toward said opening, the peripheral edge of said end-wall and the lateral edge of said extension received in said respective grooves at each corner of said opening, a reinforcing strip at each side of each of said extensions, the end of each of said reinforcing strips at each of said corners abutting against the side of said end-stave at each of the corners of said opening, said reinforcing strips and said edge of said extension at each of said corners forming a lapping tongue



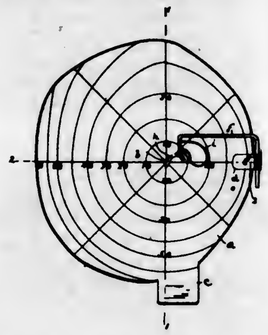
and groove joint with the side of said end-stave at each of said corners, and a tension band received about each end of said tub in the plane of said end wall for forcing said ends of said extensions into said grooves coacting therewith and forcing said abutting ends of said reinforcing strips and said sides of said end staves toward one another, for the purpose described.

1,389,091. WASHING-MACHINE. ROBERT J. ANDERSON, Sidney, Ohio. Filed Aug. 16, 1917. Serial No. 186,623. 22 Claims. (Cl. 259—75.)



1. A washing machine comprising a rocking tub having an opening in its top and an inner surface which slopes inwardly of the tub adjacent to said opening at each end of said opening, and bottom and end walls described on a substantial ellipse, said tub having a pivotal axis adjacent to and below the center of said substantial ellipse, and means for rocking said tub on said pivotal axis, the bottom of said tub curving downwardly toward its middle under said pivotal axis, whereby the lower middle portion of said bottom of said tub bulges outwardly to locate the greatest portion of the weight in said tub in the vertical plane of said pivotal axis when said tub is in normal position.

1,389,092. OPTICAL INSTRUMENT. SYLVESTER JUDD BEACH, Portland, Me. Filed Feb. 21, 1921. Serial No. 446,796. 5 Claims. (Cl. 88—20.)



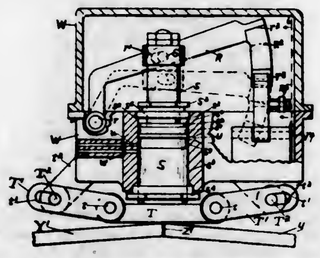
1. A device for testing the visual field of the human eye, consisting of a concave chart having at its lower portion a spherical section with a cylindrical section connected therewith.

1,389,093. METHOD OF MAKING TIRE-FILLERS. EDWARD F. BRANEN, Sr., Elgin, Ill. Filed Aug. 9, 1920. Serial No. 402,076. 3 Claims. (Cl. 152—5.)



2. A tire filler comprising a core member having a portion for supporting the rim and an enlarged portion following the general contour of the inner wall of a tire casing, but spaced therefrom, except adjacent the rim, by different amounts gradually tapering from the greatest space opposite the tire tread to points near the rim portion of the casing, where the space wholly disappears, and a more resilient member having a normal cross section of substantially the same shape as the space between the core and the inner wall of the casing, said member being crowded into the space between the core and the casing under pressure when the tire is filled for use.

1,389,094. TRAIN-CONTROL APPARATUS. ANDREW J. BROOKINS, Chicago, Ill. Filed June 10, 1920. Serial No. 387,847. 16 Claims. (Cl. 246—49.)



12. A cab carried mechanism comprising a member adapted to be advanced by air under pressure, a lever connected to said member and provided with a plurality of engageable elements, a plurality of members adapted to be advanced into engageable position with a corresponding one of said elements, in combination with an electroresponsive member arranged to selectively advance said last members into said engageable position.

1,389,095. SWISS CHEESE AND METHOD FOR STERILIZING THE SAME. LINN EUGENE CARPENTER, East Orange, N. J., and ELMER ELLSWORTH ELDERDGE, Sidney, N. Y., assignors to Phenix Cheese Company, New York, N. Y., a Corporation of New York. Original application filed June 21, 1915, Serial No. 35,477. Renewed Mar. 14, 1918. Serial No. 222,514. Divided and this application filed Mar. 14, 1918. Serial No. 222,312. 7 Claims. (Cl. 99—11.)

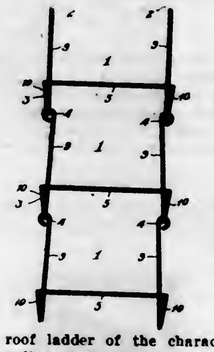
1. As an article of manufacture a sterile cheese containing a preponderance of Swiss cheese, a small percentage of some other cheese capable of mixing therewith into a homogeneous mass, and a small percentage of sodium citrate.

2. The method, herein described, of treating cheese, which consists in grinding Swiss cheese, adding thereto a small percentage of sodium citrate, water and Neufchâtel cheese, heating the mass to approximately 165 degrees Fahrenheit for about thirty minutes, and stirring the mass constantly while thus heated.

3. As an article of manufacture, a cheese of the Swiss genus, sterilized sufficiently to enable it to keep indefinitely under ordinary climatic temperatures, said cheese having a homogeneous texture.

7. The method herein described of treating a cheese mass containing a preponderance of cheese of the Swiss genus, which consists in heating the cheese actively stirring it while thus heated, the temperature being maintained sufficiently high and the heating and stirring being continued for a sufficient length of time to render the cheese mass permanently keeping, and inclosing the cheese mass in a container.

1,389,096. ROOF-LADDER FIRE-ESCAPE. FRANK L. CHAPPELL, Cleveland, Ohio. Filed June 24, 1920. Serial No. 391,435. 1 Claim. (Cl. 228—44.)

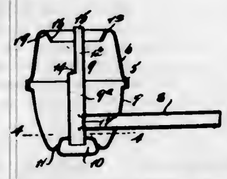


A collapsible roof ladder of the character described, comprising a plurality of U-shaped integral metal members, each being formed with outwardly turned eyes at its upper ends and each side portion being inclined downwardly and outwardly from its top to the bottom thereof, each of said side portions extending rearwardly from its bottom and then inclined outwardly, upwardly and forwardly of the respective side portion to form a loop of materially greater diameter than that of said eyes, the loops of each member being connected by a horizontally disposed portion to provide a rung, the loops of each member passing through the outwardly turned eyes of the member adjacently below, and a U-shaped topmost member having its ends formed with hooks for engagement with the ridge boards of a building.

1,389,097. ALLOY. ALVAH W. CLEMENT, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Aug. 15, 1917, Serial No. 186,867. Divided and this application filed Aug. 15, 1918. Serial No. 249,952. 5 Claims. (Cl. 75—1.)

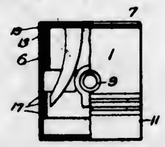
1. An alloy containing an appreciable quantity but not more than 80% of iron, an appreciable quantity but not more than 25% of titanium, an appreciable quantity but not more than 30% of chromium and an appreciable quantity but not more than 10% of a metal having the properties of aluminum which render the alloy substantially non-oxidizable at high temperatures.

1,389,098. SOAP-BUBBLE PIPE. IRWIN COHN, Stroudsburg, Pa., assignor to Exeloid Company of Pennsylvania, East Stroudsburg, Pa., a Corporation of Pennsylvania. Filed Jan. 15, 1921. Serial No. 437,386. 7 Claims. (Cl. 46—81.)



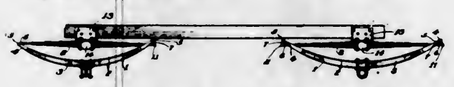
1. In a bubble pipe, a bowl member, a supplemental air chamber within the bowl, a Venturi-tube extending from the air chamber, a stem connected with said tube, and an annular inwardly directed baffle wall carried by the bowl at its open end.

1,389,099. PISTON. EUGENE F. COOK, Richmond Heights, Mo. Filed Mar. 27, 1919. Serial No. 285,423. 10 Claims. (Cl. 74—108.)



1. In apparatus of the class described, in combination, a piston, having a body, a head integral therewith, a ring on the body, and a groove extending from a point adjacent the central portion of the length of the piston to a point adjacent the head above the ring, said groove having heat insulating material therein.

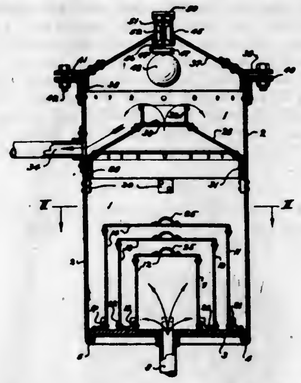
1,389,100. SPRING SUSPENSION OF SELF-PROPELLED VEHICLES. HERBERT H. NEALE, New York, N. Y. Filed Oct. 6, 1916. Serial No. 124,036. 3 Claims. (Cl. 267—42.)



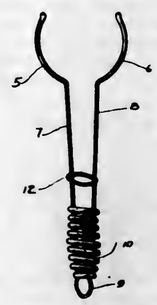
1. On a self-propelled vehicle, a spring suspension comprising a relatively rigid cradle supported by the vehicle axle at right angles thereto and a double-ended laminated spring connected at its thin ends to the ends of the cradle and rigidly connected at its thick intermediate portion to the frame of the vehicle.

1,389,101. FOAM OR FROTH DISSIPATOR. OSCAR OHAVALL, New York, N. Y. Filed Aug. 5, 1918. Serial No. 248,333. 7 Claims. (Cl. 183—3.)

1. A device of the character described comprising a container having inlet and outlet openings, and an intercepter intermediate of said openings composed of a series of dome-shaped elements of different sizes nesting one within the other in spaced relation to their respective sides and heads, said elements being provided with sharp-edged apertures through which a liquid may be passed to relieve it of foam or froth, the outlet from the container being higher than the dome-shaped elements and controlling the flow out of the same, the arrangement being such that the weight of the liquid above the elements opposes its flow through the series thereof whereby the bubbles are forced into contact with both the outer and inner edges of said apertures.

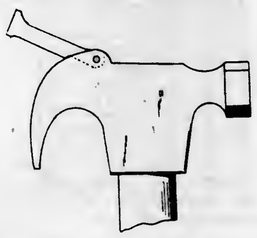


1,389,102. HOT-PLATE LIFTER. FRANK ROMO, Jr., Hilo, Hawaii. Filed June 12, 1920. Serial No. 388,498. 2 Claims. (Cl. 294—33.)



1. A plate lifter comprising spaced jaws, convergent handle members and a loop connecting the handle members, and a grip consisting of a wire helix closely embracing the handle members adjacent the loop, the opposite end of the helix being elliptical in cross section with its major axes in the plane of the handle sides which latter diverge from the grip in the direction of the jaws.

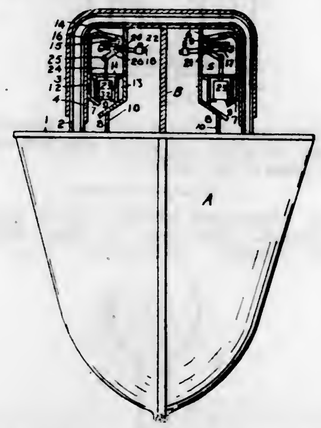
1,389,103. HAMMER. JOHN RYAN, Dubuc, Saskatchewan, Canada. Filed Sept. 4, 1920. Serial No. 408,399. 1 Claim. (Cl. 254—26.)



A hammer consisting of a head, a handle having one end positioned in said head, a slot in the upper end of

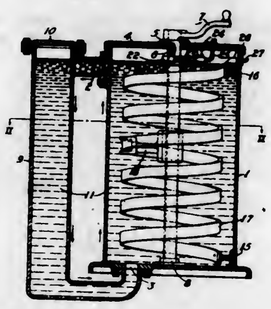
said head and extending outwardly from the handle opening on the claw side of said head, a leg having one end hingedly mounted in said slot, said leg adapted to act as a fulcrum in drawing nails and having a notch bearing against the walls of said slot when the leg is in operative position and a spring having one end fitted between said handle and the side of said handle opening, the other end of said spring having its free end extended beyond the opposite edge of the handle and beneath the fulcrum of the leg and tensioning on the hinged end of said leg to keep it fixedly positioned in either closed or open position.

1,389,104. VALVE MECHANISM. CHARLES ESHEL SAYER, Pittsburgh, Pa. Filed Feb. 21, 1920. Serial No. 360,471. 8 Claims. (Cl. 9—4.)



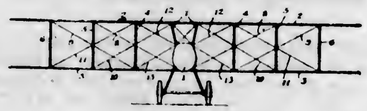
1. A valve mechanism for the purpose set forth comprising the combination with means to provide an inlet and a valvular member for closing said inlet, of a rock shaft, a valve lever connecting said member with the shaft, a shaft rocking element fixed to the shaft, and a float operated operating lever loosely attached to the shaft and adapted when actuated to engage said element thereby rocking the shaft and shifting the valvular member to close the inlet.

1,389,105. CONTROL APPARATUS. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1919. Serial No. 344,745. 9 Claims. (Cl. 219—57.)



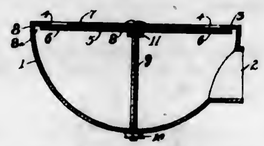
1. Control apparatus comprising a spirally-arranged self-supporting resistor and means for varying the active portion thereof.

1,389,106. AIRPLANE. BENJAMIN DOUGLAS THOMAS, Ithaca, N. Y. Filed Dec. 4, 1919. Serial No. 342,316. 4 Claims. (Cl. 244—14.)



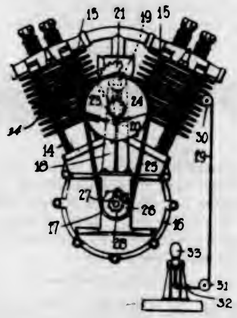
1. In an airplane, the combination with a fuselage, upper and lower wing spars, and struts joining the upper and lower spars and forming the panels of the truss, of diagonal tension members connecting the upper portion of the fuselage with the top of the first panel strut, and the lower portion of the fuselage with the top of the second panel strut.

1,389,107. BURNER-HEAD. CHARLES L. TORREY, San Jose, Calif., assignor of seventy per cent. to Charles A. Sawyer and twenty-five per cent. to William T. Alexander, San Jose, Calif. Filed Nov. 10, 1920. Serial No. 423,087. 2 Claims. (Cl. 158—116.)



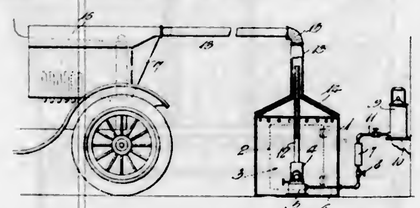
1. A burner head comprising a bowl shaped member, a gas inlet thereto, a perforated plate arranged to cover the bowl shaped member, a second perforated plate spaced a distance from said first named plate and depending therefrom within said bowl shaped member, and means engaging both of said plates and said bowl shaped member for securing the same in fixed relation to each other.

1,389,108. MECHANICAL STARTER FOR INTERNAL-COMBUSTION ENGINES. FREDERICK D. WARNER, Middletown, N. Y. Filed Mar. 29, 1920. Serial No. 369,725. 2 Claims. (Cl. 74—54.)



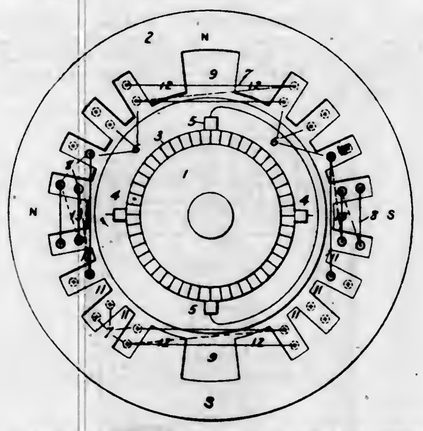
1. In a mechanical starter for internal combustion engines, the combination with a V type motor having a crank case projection at one end and a crank shaft extended into the crank case projection, of an upright bearing mounted upon the crank case projection, a shaft journaled in said bearing, the relative arrangement of the shaft to the engine cylinders being such that the axis of the shaft if continued would extend into the space defined by the inner walls of the motor cylinders, a lever arm mounted on said shaft, a gear segment mounted on said shaft, a second shaft journaled in said bearing below and in parallelism with the first mentioned shaft; a gear mounted on this second shaft, said last mentioned gear and the gear segment being at all times in mesh, a connection between said last mentioned gear and the crank shaft for rotating the latter by movement of the lever arm, operating means connected with the lever arm, and a spring for returning the lever arm to its original position subsequent to each operation.

1,389,109. ENGINE AND RADIATOR HEATER. JOHN ROBERT WESTON, Dubuque, Iowa. Filed Dec. 16, 1920. Serial No. 431,223. 4 Claims. (Cl. 126—350.)



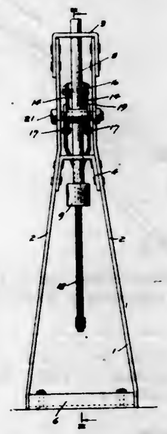
1. A heating device comprising a housing having a roof of heat conducting material, an auxiliary roof for said housing supported above the roof of the housing to provide an air passage between the housing roof and auxiliary roof, a heater in the housing having a discharge pipe extending through the roof of the housing in air-tight engagement with the housing roof and through an enlarged opening in the auxiliary roof, and an air conducting pipe extending from the opening in the auxiliary roof with the discharge pipe of said stove extending partially through the air pipe, in spaced relation to the same.

1,389,110. DYNAMO-ELECTRIC MACHINE. CHARLES E. WILSON, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 9, 1917. Serial No. 153,538. 6 Claims. (Cl. 171—223.)



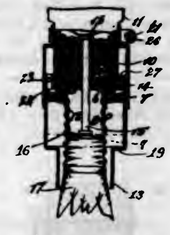
1. A direct-current dynamo-electric machine comprising a stator provided with main and compensating field pole pieces each provided with windings, an armature provided with windings certain of which are substantially short-circuited by means of current-collecting devices and certain others of which are connected externally by similar means, said short-circuited windings being adapted to produce a flux aiding said main field flux under light-load conditions and opposing said main field flux under heavy-load conditions.

1,389,111. BOTTLE-CAPPING MACHINE. GEORGE C. ADAMS and WILLIAM F. ADAMS, San Francisco, Calif. Filed Mar. 2, 1921. Serial No. 449,042. 2 Claims. (Cl. 226—84.)



1. A bottle capping device comprising a vertical standard having two horizontal members, one being above the other, a plunger guided vertically in said horizontal members, two registering links pivotally engaging said plunger on opposite sides and a forked lever having its forked end pivotally supported in said standard and its prongs operatively engaging said links for imparting vertical motion to said plunger.

1,389,112. INCANDESCENT-LAMP LOCK. SAMUEL L. ADELSON, New York, N. Y. Filed Mar. 25, 1920. Serial No. 368,721. 4 Claims. (Cl. 173—356.)



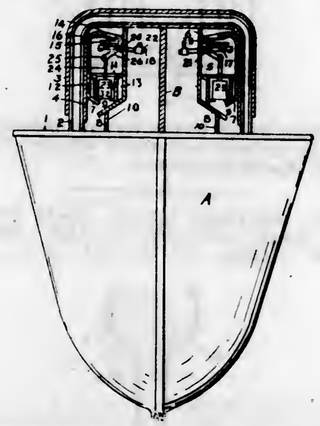
1. In combination with a standard socket for electric light bulbs, a plug to engage the threaded bushing of said socket, a threaded sleeve carried by the plug, a rotatable bulb support consisting of a threaded socket member engaging said threaded sleeve, a head carried by the socket member, and provided with a plurality of notches, a rotatable sleeve surrounding the plug and bulb-support, a pin carried by the sleeve to engage said notches to prevent the rotation of the bulb-support, and releasable means to secure said sleeve against rotation when said sleeve is not in use to prevent rotation of said bulb-support.

1,389,113. AGRICULTURAL IMPLEMENT. CHARLES J. ALLEN, Moorestown, N. J. Filed Mar. 26, 1917. Serial No. 157,386. 3 Claims. (Cl. 97—42.)

3. An implement of the class described, comprising a frame having spaced wheel bearings, supporting wheels for said frame, a handle connected with said frame, and a tool-carrying arm pivoted to said frame on an axis disposed above the horizontal plane of the wheel bearing axis; said tool-carrying arm being substantially V-shaped and having one leg disposed substantially parallel with

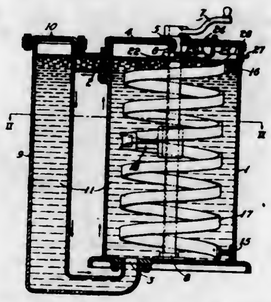
said head and extending outwardly from the handle opening on the claw side of said head, a leg having one end hingedly mounted in said slot, said leg adapted to act as a fulcrum in drawing nails and having a notch bearing against the walls of said slot when the leg is in operative position and a spring having one end fitted between said handle and the side of said handle opening, the other end of said spring having its free end extended beyond the opposite edge of the handle and beneath the fulcrum of the leg and tensioning on the hinged end of said leg to keep it fixedly positioned in either closed or open position.

1,389,104. VALVE MECHANISM. CHARLES ESHEL SAYER, Pittsburgh, Pa. Filed Feb. 21, 1920. Serial No. 360,471. 8 Claims. (Cl. 9—4.)



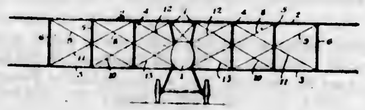
1. A valve mechanism for the purpose set forth comprising the combination with means to provide an inlet and a valvular member for closing said inlet, of a rock shaft, a valve lever connecting said member with the shaft, a shaft rocking element fixed to the shaft, and a float operated operating lever loosely attached to the shaft and adapted when actuated to engage said element thereby rocking the shaft and shifting the valvular member to close the inlet.

1,389,105. CONTROL APPARATUS. KARL A. SIMMON, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1919. Serial No. 344,745. 9 Claims. (Cl. 219—67.)



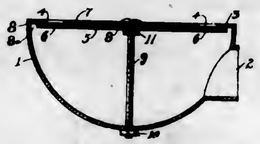
1. Control apparatus comprising a spirally-arranged self-supporting resistor and means for varying the active portion thereof.

1,389,106. AIRPLANE. BENJAMIN DOUGLAS THOMAS, Ithaca, N. Y. Filed Dec. 4, 1919. Serial No. 342,316. 4 Claims. (Cl. 244—14.)



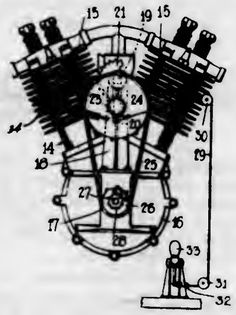
1. In an airplane, the combination with a fuselage, upper and lower wing spars, and struts joining the upper and lower spars and forming the panels of the truss, of diagonal tension members connecting the upper portion of the fuselage with the top of the first panel strut, and the lower portion of the fuselage with the top of the second panel strut.

1,389,107. BURNER-HEAD. CHARLES L. TORREY, San Jose, Calif., assignor of seventy per cent. to Charles A. Sawyer and twenty-five per cent. to William T. Alexander, San Jose, Calif. Filed Nov. 10, 1920. Serial No. 423,087. 2 Claims. (Cl. 158—116.)



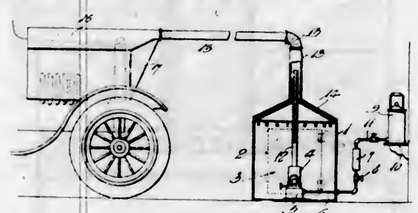
1. A burner head comprising a bowl shaped member, a gas inlet thereto, a perforated plate arranged to cover the bowl shaped member, a second perforated plate spaced a distance from said first named plate and depending therefrom within said bowl shaped member, and means engaging both of said plates and said bowl shaped member for securing the same in fixed relation to each other.

1,389,108. MECHANICAL STARTER FOR INTERNAL-COMBUSTION ENGINES. FREDERICK D. WARNER, Middletown, N. Y. Filed Mar. 29, 1920. Serial No. 369,725. 2 Claims. (Cl. 74—54.)



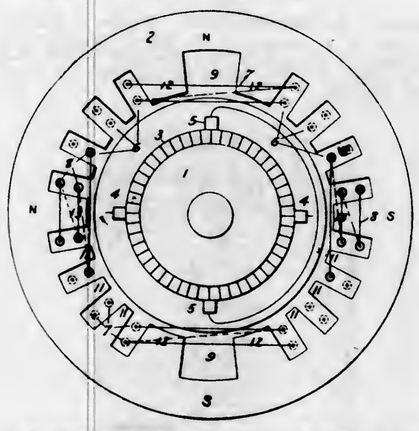
1. In a mechanical starter for internal combustion engines, the combination with a V type motor having a crank case projection at one end and a crank shaft extended into the crank case projection, of an upright bearing mounted upon the crank case projection, a shaft journaled in said bearing, the relative arrangement of the shaft to the engine cylinders being such that the axis of the shaft if continued would extend into the space defined by the inner walls of the motor cylinders, a lever arm mounted on said shaft, a gear segment mounted on said shaft, a second shaft journaled in said bearing below and in parallelism with the first mentioned shaft; a gear mounted on this second shaft, said last mentioned gear and the gear segment being at all times in mesh, a connection between said last mentioned gear and the crank shaft for rotating the latter by movement of the lever arm, operating means connected with the lever arm, and a spring for returning the lever arm to its original position subsequent to each operation.

1,389,109. ENGINE AND RADIATOR HEATER. JOHN ROBERT WESTON, Dubuque, Iowa. Filed Dec. 16, 1920. Serial No. 431,223. 4 Claims. (Cl. 126—350.)



1. A heating device comprising a housing having a roof of heat conducting material, an auxiliary roof for said housing supported above the roof of the housing to provide an air passage between the housing roof and auxiliary roof, a heater in the housing having a discharge pipe extending through the roof of the housing in air-tight engagement with the housing roof and through an enlarged opening in the auxiliary roof, and an air conducting pipe extending from the opening in the auxiliary roof with the discharge pipe of said stove extending partially through the air pipe, in spaced relation to the same.

1,389,110. DYNAMO-ELECTRIC MACHINE. CHARLES E. WILSON, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 9, 1917. Serial No. 153,538. 6 Claims. (Cl. 171—223.)



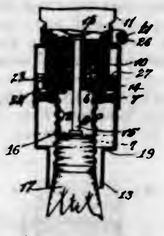
1. A direct-current dynamo-electric machine comprising a stator provided with main and compensating field pole pieces each provided with windings, an armature provided with windings certain of which are substantially short-circuited by means of current-collecting devices and certain others of which are connected externally by similar means, said short-circuited windings being adapted to produce a flux aiding said main field flux under light-load conditions and opposing said main field flux under heavy-load conditions.

1,389,111. BOTTLE-CAPPING MACHINE. GEORGE C. ADAMS and WILLIAM F. ADAMS, San Francisco, Calif. Filed Mar. 2, 1921. Serial No. 449,042. 2 Claims. (Cl. 226—84.)



1. A bottle capping device comprising a vertical standard having two horizontal members, one being above the other, a plunger guided vertically in said horizontal members, two registering links pivotally engaging said plunger on opposite sides and a forked lever having its forked end pivotally supported in said standard and its prongs operatively engaging said links for imparting vertical motion to said plunger.

1,389,112. INCANDESCENT-LAMP LOCK. SAMUEL L. ADELSON, New York, N. Y. Filed Mar. 25, 1920. Serial No. 368,721. 4 Claims. (Cl. 173—356.)

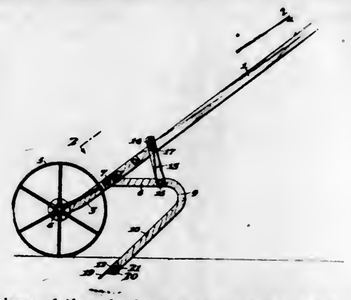


1. In combination with a standard socket for electric light bulbs, a plug to engage the threaded bushing of said socket, a threaded sleeve carried by the plug, a rotatable bulb support consisting of a threaded socket member engaging said threaded sleeve, a head carried by the socket member, and provided with a plurality of notches, a rotatable sleeve surrounding the plug and bulb-support, a pin carried by the sleeve to engage said notches to prevent the rotation of the bulb-support, and releasable means to secure said sleeve against rotation when said sleeve is not in use to prevent rotation of said bulb-support.

1,389,113. AGRICULTURAL IMPLEMENT. CHARLES J. ALLEN, Moorestown, N. J. Filed Mar. 26, 1917. Serial No. 157,386. 3 Claims. (Cl. 97—42.)

3. An implement of the class described, comprising a frame having spaced wheel bearings, supporting wheels for said frame, a handle connected with said frame, and a tool-carrying arm pivoted to said frame on an axis disposed above the horizontal plane of the wheel bearing axis; said tool-carrying arm being substantially V-shaped and having one leg disposed substantially parallel with

the surface of the ground, and the other inclined forwardly and providing a straight edge extending well above



the plane of the wheel bearing axis at an angle that will permit the tops of vegetation to readily slip and be thereby untangled.

1,389,114. TIRE-TOOL. WILLIAM F. ATKINSON, Bakersfield, Calif. Filed Nov. 17, 1920. Serial No. 424,782. 4 Claims. (Cl. 152—27.)



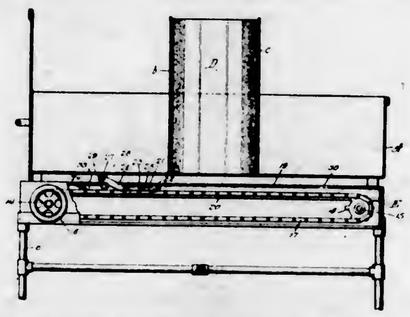
1. A device of the class described comprising a shank portion having a tapered point, and a handle including an offset portion and a straight portion, the latter extending in approximate alinement with the shank.

1,389,115. AUTOMATIC HAND-EMBROIDERING MACHINE. MICHAEL BASSISTY, New York, N. Y. Filed June 18, 1920. Serial No. 389,813. 10 Claims. (Cl. 112—80.)



1. In a hand embroidering machine, a hollow frame, a needle bar pivotally mounted in said frame, a needle carried by said bar, a presser foot bar inserted in said frame, and means interposed between the upper end of said presser foot bar and the upper end of said frame for automatically raising said frame to its uppermost position after said frame has been manually depressed.

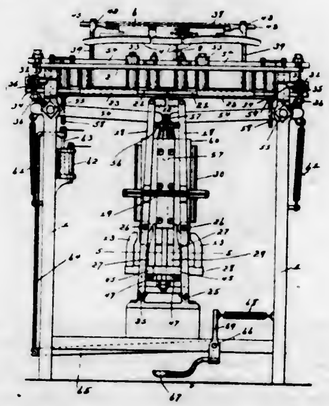
1,389,116. LOOSE-LEAF FILING SYSTEM OR POSTING-TRAY. HARRY C. BAXTER, Benton Harbor, Mich. Filed Nov. 28, 1917. Serial No. 204,334. 21 Claims. (Cl. 129—16.)



13. The combination of a receptacle for holding leaves or sheets or cards in a more or less upright position, with their upper edges substantially even or flush, means to engage the lower edges of said leaves or sheets or cards, and instrumentalities whereby said means is movable into position to raise any of said leaves or sheets or cards to bring the upper edges thereof above the others, said instrumentalities including sprocket chains and parallel tracks for controlling the back and forth movements of said means.

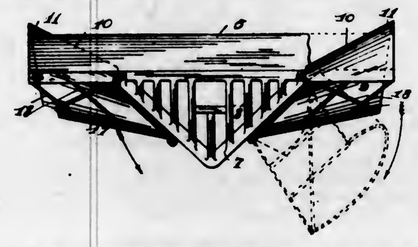
19. In a device of the class described, means for supporting a filing drawer thereon, and means associated with said means for upsetting leaves in said drawer when the drawer is supported on the first named means.

1,389,117. FOLDING-MACHINE. WALTER J. BEATTIE, Cohoes, N. Y., assignor to The Beattie Manufacturing Company, Cohoes, N. Y., a Corporation of New York. Filed Sept. 6, 1918. Serial No. 252,871. 14 Claims. (Cl. 223—55.)



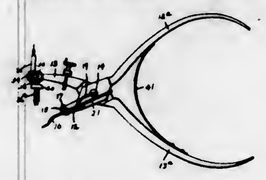
1. In a folding-machine and in combination, an infolder; an eccentric connected with said infolder to impart inward longitudinal movement to the whole infolder and transverse movement to one end thereof; and means engageable with said infolder at one side of said eccentric for imparting to the neighboring end of said infolder a transverse inward movement greater than the transverse inward movement of the other end of said infolder as the infolder is moved longitudinally inward, said means permitting unrestricted longitudinal movement of the infolder by said eccentric.

1,389,118. SNOWPLOW. JOSEPH DONAT BERGERON, Iberville, Quebec, Canada. Filed Sept. 9, 1920. Serial No. 409,268. 3 Claims. (Cl. 37—57.)



1. In a device such as described, the combination with a cow-catcher, a pair of wings hinged to the opposite sides thereof, said wings being concaved and extended at an angle rearwardly toward the outer ends thereof, and bars connecting the upper and lower portions of the wings.

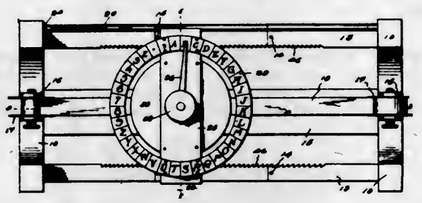
1,389,119. COMPOUND TOOL FOR WATCHMAKERS. ABRAHAM BRILLIANT, Boston, Mass. Filed May 6, 1921. Serial No. 467,334. 5 Claims. (Cl. 81—6.)



1. A watch-maker's tool comprising a pair of crossed levers; a transverse pivot connecting said levers, each lever having an operating arm and a longer handle arm, one of said operating arms being shorter than the other, a pair of spring-closed jaws connected with the shorter operating arm by pivots at right angles with the lever-connecting pivot, and provided with means whereby they may be manually opened, the jaws having thin notched meeting portions collectively forming a seat, adapted to bear on either a watch balance roller, a watch hand, a jewel holder, or a hair spring stud holder, the longer arm being provided with a post-receiving socket, and with means for detachably securing a post therein, and two interchangeable posts, each adapted to be secured in said socket, and to coöperate as described, with said jaws, one post being formed to act in removing a roller, hands, and a hair spring stud, and the other post being formed to act in removing a jewel, the tool being provided with means for holding either post in an inoperative position.

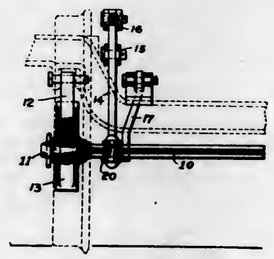
1,389,120. TYPEWRITER. JOHN W. BUCHANAN, Boston, Mass., assignor of one-half to George E. Sanford, Boston, Mass. Filed July 16, 1919. Serial No. 311,282. 3 Claims. (Cl. 197—46.)

1. A typewriter comprising an elongated platen bar, parallel guide rails, a traveling type basket carried thereby, a plurality of type printing units mounted in the basket each including an upwardly disposed operating member adapted to be depressed to operate its respective type printing element, said type printing elements being each adapted to print a character centrally beneath the basket with a downward stroke, an operating knob centrally mounted with respect to the type printing element and revoluble in the basket having an arm movable to selectively engage



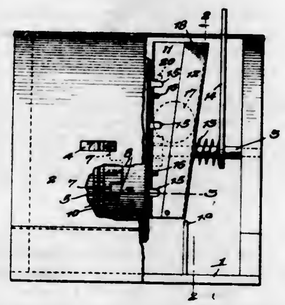
alternatively the operating members of the type printing units, and being vertically reciprocable for operation; and means associated therewith to move the basket longitudinally upon each vertical reciprocation of the operating knob.

1,389,121. BRAKE-BEAM SUSPENSION. THOMAS L. BURTON, St. Louis, Mo., assignor to The American Brake Company, St. Louis, Mo., a Corporation of Missouri. Original application filed May 18, 1917, Serial No. 169,408. Divided and this application filed May 15, 1920. Serial No. 381,542. 5 Claims. (Cl. 188—213.)



1. In a brake device, the combination of a brake beam having jaws near its opposite ends, hangers for said beam, truck brake levers pivotally attached to said jaws, and additional hangers pivotally supported on the truck frame and connected to said jaws.

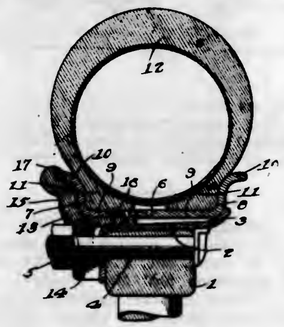
1,389,122. COIN-ADDING MACHINE. JOHN A. CANFIELD, Danbury, Conn. Filed June 24, 1920. Serial No. 391,295. 6 Claims. (Cl. 235—100.)



1. A coin register comprising a shaft, an inner drum loose thereon, an outer drum also loose thereon and frictionally receiving the first drum whereby the two drums

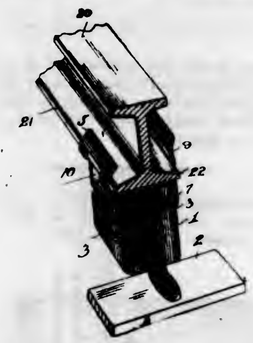
will rotate as a unit, said drums bearing monetary values on their peripheries and the outer drum having peripheral series of recesses, a pawl coöperating with the recesses to hold the outer drum against retrograde action, and means on the inner drum for selective engagement to rotate the same.

1,389,123. DEMOUNTABLE RIM. WILLIAM GEO. CANION, Glen Burnie, Md., assignor to The National Manufacturing Company, a Corporation of Maryland. Filed Aug. 27, 1919. Serial No. 320,177. 6 Claims. (Cl. 301—35.)



1. A demountable rim comprising two annular sections, one having slots therein, and bolt engaging wedge fasteners having lugs to engage said slots in the one rim section and hooks to engage the flange of the other rim section.

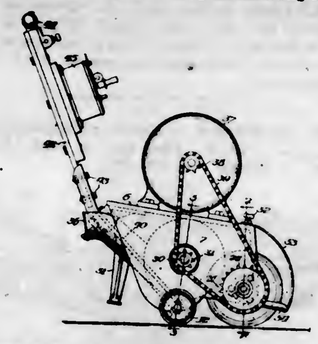
1,389,124. SUPPORT FOR THIRD RAILS. THOMAS W. CASEY, Yonkers, N. Y., assignor to National Pneumatic Company, Chicago, Ill., a Corporation of West Virginia. Filed June 6, 1917, Serial No. 173,141. Renewed July 20, 1921. Serial No. 486,189. 7 Claims. (Cl. 191—32.)



1. A support for third rails comprising a standard, a pair of plates fitting one in the other and respectively engaging at one end the opposite sides of said standard, said plates having their other ends respectively adapted to engage opposite sides of the rail and clamp the rail on the top surface of said standard.

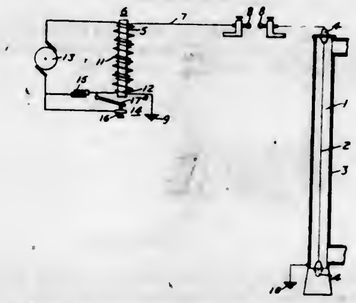
1,389,125. SURFACING-MACHINE. ARTHUR E. CHAPPELL, Chicago, Ill. Filed Oct. 3, 1918. Serial No. 256,672. 7 Claims. (Cl. 51—176.)

4. In a surfacing machine, the combination of a frame provided with an elongated bearing, a shaft, a surfacing cylinder reversibly mounted thereon and adapted in one position to overlap one end of said bearing, means for locking said shaft in the bearing, and detachable means for driving said shaft, said driving means being removable



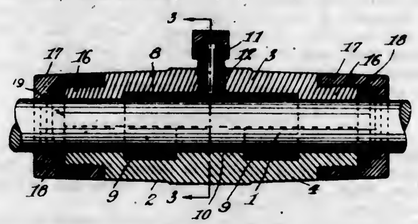
to permit endwise reversal of the shaft so that said cylinder may be disposed at will upon either side of the bearing and reversed endwise upon the shaft.

1,389,126. ELECTRICAL PRECIPITATING SYSTEM. LEWIS W. CHUBB, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1917. Serial No. 140,768. 5 Claims. (Cl. 171—119.)



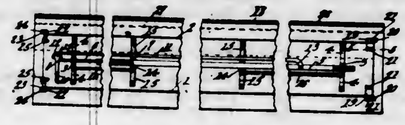
1. A source of intermittent voltage, a translating device, transforming means therebetween producing an unsymmetrical wave-form voltage, and means whereby said translating device is charged to a potential equal to not more than one-half the difference between the peak values of the opposite lobes of said wave.

1,389,127. BEARING. NAPOLEON CONSTANT, Manchester, N. H. Filed Sept. 1, 1920. Serial No. 407,296. 3 Claims. (Cl. 64—24.)



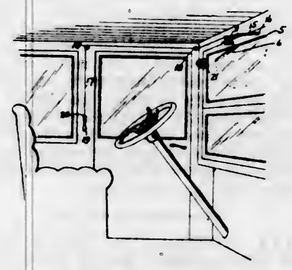
1. A bearing comprising two sections, packings disposed between the meeting edges of the sections, the ends of said sections being reduced and threaded, caps threaded upon the ends of the sections, and packing disposed between the ends of said sections and caps.

1,389,128. CONCRETE MOLD OR FORM. THOMAS DE LA MARE, Tooele, Utah. Filed Apr. 20, 1920. Serial No. 375,825. 8 Claims. (Cl. 25—131.5.)



3. In a mold, a contractible shell, means for operating said shell, a second contractible shell surrounding the first mentioned shell, stays attached to the second shell adjacent the ends thereof, the stays at one end having portions for receiving the respective end of the first mentioned shell, and means for detachably securing the other end of the first mentioned shell to the other stays.

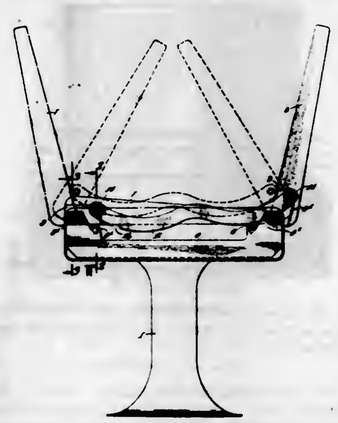
1,389,129. WINDSHIELD-CLEANER. ALBERT DELL, Philadelphia, Pa., assignor of one-half to Theodore C. Ulmer, Germantown, Philadelphia, Pa. Filed Dec. 31, 1920. Serial No. 434,363. 3 Claims. (Cl. 15—59.)



1. A wind shield cleaner comprising the combination of a wiper arm having a right angularly arranged stud adapted to be mounted for turning and endwise motion in an opening provided through the top rail of a pivotal wind shield panel and to protrude inside of the latter, a squeegee hinged at its edge to said arm and adjustable into perpendicular and parallel positions with respect to the plane of the panel to permit of opening the wind shield, means for securing the squeegee in adjusted position, a compression spring mounted on the inwardly protruding portion of the stud and reacting inward from the top rail, a lever adjustably mounted on the protruding portion of the stud and acting on the compression spring to set the tension on the squeegee, and means for turning the lever.

1,389,130. CAR-SEAT. GEORGE W. DEYER, Gardiner, N. Y., assignor, by mesne assignments, to American Motor Body Company, Detroit, Mich., a Corporation of Delaware. Filed Jan. 19, 1920. Serial No. 352,342. 8 Claims. (Cl. 155—99.)

1. In a car seat, the combination of supports, a pair of similar members pivotally secured to said supports at opposite sides thereof and each adapted to be positioned as a seat when the other is positioned as a back, and means independent of said supports for causing the movement of one member from seat to back position automatically in consequence of the movement of the other from



back to seat position due to pressure applied thereto in a generally horizontal plane.

1,389,131. FLEXIBLE GARMENT-FASTENER. MARGARET W. EARNSHAW, Glencoe, Ill. Filed Nov. 29, 1920. Serial No. 426,927. 4 Claims. (Cl. 2—142.)

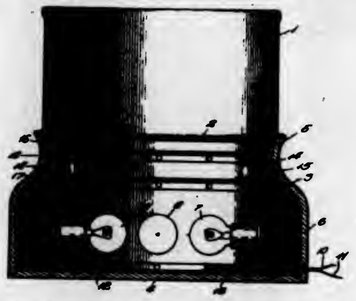


1. The combination with a garment comprising a plurality of overlapping plies provided with alined button holes, of a strip of elastic material extending across the button hole of the inner ply and secured to the inner face of said ply remote from said button hole therein, and a button having an elongated shank extending through said alined button holes and secured to said strip of elastic material, said button hole being adapted to permit a fold of said strip to be drawn therethrough when outward pull is exerted upon the head of said button.

1,389,132. ILLUMINATED LIQUID-CONTAINER. EDWARD GALAVAN, Chicago, Ill., assignor to A. L. Randall Co., Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1918. Serial No. 255,963. 2 Claims. (Cl. 240—2.)

1. In a device of the kind described, a liquid container provided with an inclosing wall pervious to light and a supporting member for said container provided with a wall impervious to light and arranged to support the container

in an elevated position, in combination with a plurality of different colored lights arranged beneath the container,

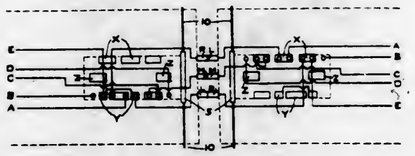


means for automatically lighting said members, and air chambers arranged between the lights and the bottom of the container.

1,389,133. HEAT-RESISTING ALLOY. JOHN T. GLEKLER, Cleveland, Ohio, assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 14, 1920. Serial No. 351,441. 3 Claims. (Cl. 75—1.)

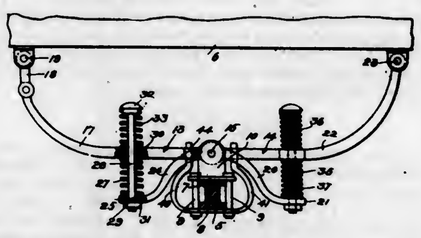
1. An alloy which is substantially nonwarping and nonoxidizing at high temperatures containing as essential ingredients substantially 15 to 40 per cent. of chromium, substantially 1 to 15 per cent. of nickel, the balance consisting principally of iron.

1,389,134. MANUALLY-OPERATED CIRCUIT-CROSSING SWITCH. JOHN B. GROSSWEGE, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Aug. 15, 1918. Serial No. 249,942. 13 Claims. (Cl. 171—313.)



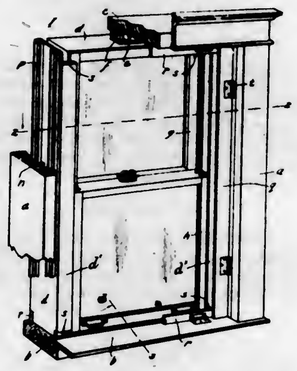
11. The combination with a crossing switch for car line circuits and having one position for direct connections and another position for cross connections, of a cam for operating said switch, and push rods extending to the opposite sides of the car for operating said cam.

1,389,135. VEHICLE-SPRING. CHARLES A. HUNT, Chino, Calif. Filed July 12, 1920. Serial No. 395,558. 2 Claims. (Cl. 267—8.)



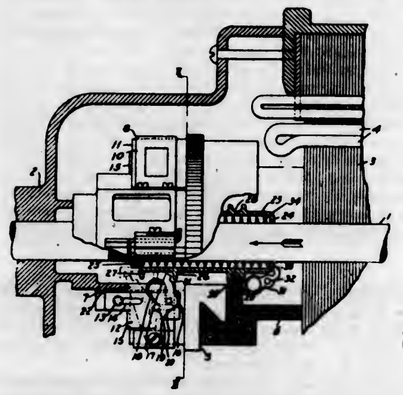
2. A vehicle spring, comprising a pair of levers pivoted in crossed relation to a vehicle axle, one of the ends of each of said levers being secured to a vehicle body, a bolt secured to each of the opposite ends of said levers and passing through apertures in the first mentioned lever ends, a compression spring adapted to surround each of said bolts and interposed between said first mentioned lever ends and said opposite ends, and a compression spring adapted to surround each of said bolts and to be interposed between said bolt heads and said first mentioned lever ends.

1,389,136. WINDOW-FRAME. ARCHIE L. HUTCHINSON, San Francisco, Calif. Filed Sept. 26, 1919. Serial No. 326,661. 9 Claims. (Cl. 20—51.)



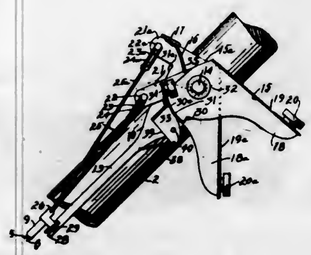
1. In a window, comprising a frame in the window opening, a sash-frame pivoted for rotation in said window-frame, and upper and lower sashes slidable in the sash-frame, boxes on the exterior of the sash-frame, means contained in said boxes by which the window sashes are suspended and balanced, weather-strip elements on the exterior of said boxes, and auxiliary weather-strip elements carried by one of said frames and adjustable to cover the crevices between the adjacent members of the window-frame and the sash-frame.

1,389,137. CONTROLLING DEVICE FOR BRUSH-HOLDER MECHANISMS. MAX E. GYSEL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 7, 1917. Serial No. 200,668. 7 Claims. (Cl. 172—279.)



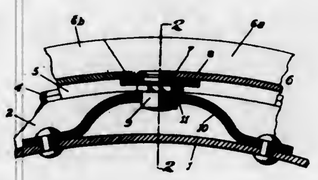
1. In a dynamo-electric machine, the combination with a commutator cylinder, a brush holder and a brush slidably mounted thereon, of a member adapted to exert yieldable pressure in opposite directions from a neutral position to engage, or to be disengaged from, said brush, and automatic means for moving said member through the neutral position.

1,389,138. SIGNAL CONTROL. WILLIAM E. HART, San Jose, Calif., assignor to Hart's Auto Signal Tail Light Co., San Jose, Calif., a Corporation. Filed Oct. 18, 1920. Serial No. 417,816. 9 Claims. (Cl. 74—39.)



1. An actuating mechanism comprising a pair of operating elements, a support for said elements, a pair of levers to which said elements are attached, a common shaft therefor, a resilient connection between each lever and said support, a releasable catch operatively mounted with relation to said levers, and means for effecting the engagement of each lever with said catch when thrown into an operative position.

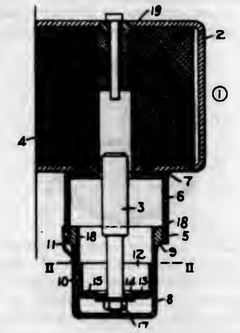
1,389,139. DRIVING-ARCH FOR WHEEL-FELLIES. LOUIS B. HARVEY, Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Filed Mar. 8, 1920. Serial No. 364,163. 3 Claims. (Cl. 301—11.)



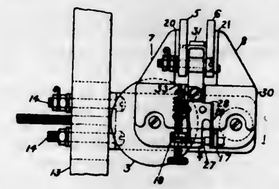
1. In combination with a sectional rim having a stud on one end of a section and a nut on the stud arranged in connection with a plate to lock adjacent ends of the sections against radial movement, a sleeve extension formed with the nut, the fixed rim of the wheel being provided with an orificed member to receive the said extension.

1,389,140. ELECTROMAGNET DEVICE. CHARLES H. HODGKINS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 18, 1916. Serial No. 132,086. 6 Claims. (Cl. 200—97.)

1. A time-element relay comprising movable and stationary magnetizable members, an internally screw-threaded inclosing casing mounted on the stationary magnetizable member, a movable piston connected to the movable magnetizable member and an externally screw-threaded operating dash-pot member for the piston adapted to be screwed into and out of the inclosing casing for adjusting the load setting of the relay throughout the length of the dash-pot member.

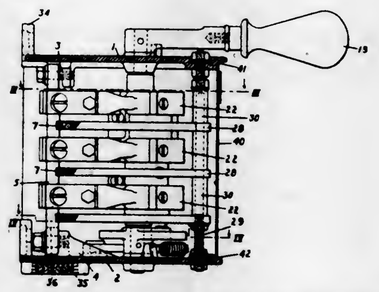


1,389,141. SWITCH. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 8, 1917. Serial No. 206,159. 3 Claims. (Cl. 200—104.)



1. A switch comprising relatively movable contact members, two operatively connected magnetizable members mounted in spaced relation to one another, and a coil disposed on one of said magnetizable member for actuating one of the contact members and for establishing a flux that is carried by the said magnetizable members across the field of movement of the contact members.

1,389,142. CONTROLLER. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 16, 1918. Serial No. 228,863. 4 Claims. (Cl. 200—10.)



1. In a controller, the combination with an insulating support and a pair of end plates of greater width than said support secured thereto, one of said end plates having an attaching lug upon its inner face, of a drum rotatably mounted in said end plates.

1,389,143. REINFORCED TUBE AND METHOD OF MAKING IT. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 25, 1919. Serial No. 273,004. 10 Claims. (Cl. 18—55.)



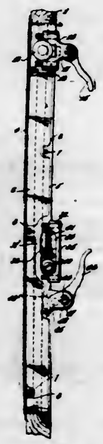
10. A method of making reinforced tubes that comprises superposing layers of sheet material, impregnated with a phenolic condensation product, about a plurality of mandrels, disposing the inclosed mandrels to engage each other, winding sheet material impregnated with a phenolic condensation product about the assembled mandrels, disposing the resulting body in a mold and subjecting it to heat and pressure.

1,389,144. RAILROAD-FROG. ROBERT EMMET KEOUGH, Montreal, Quebec, Canada. Filed July 21, 1920. Serial No. 398,032. 2 Claims. (Cl. 246—468.)



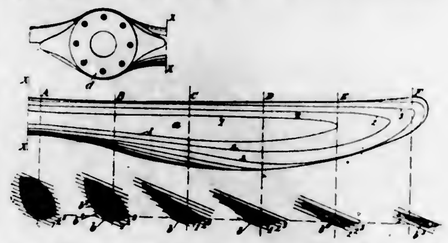
1. A railway frog comprising a point and wing-rails each presenting a leg extending from the throat of the frog to within close proximity of the point and lying at an angle to a side of the point and a contiguous leg lying parallel to such side of the point presenting a relatively great throat and diminished channel for the purpose of relieving the point.

1,389,145. WINDSHIELD. ALBERT L. LAMBERT, Narbeth, and ALFRED BELL, Philadelphia, Pa., assignors, by mesne assignments, to American Motor Body Company, Detroit, Mich., a Corporation of Delaware. Filed Jan. 29, 1920. Serial No. 354,834. 8 Claims. (Cl. 296—86.)



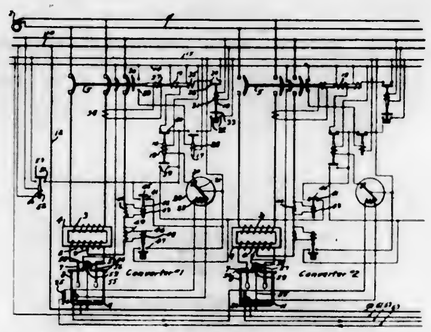
1. In a wind shield, the combination of fixed side frame members having guideways, a wind shield having pivots thereon mounted for sliding movement in said guideways, levers pivoted on said frame members and having pivotal connections with said shield, the pivotal points being so located that the operation of said levers in one direction raises said shield and said first named pivots and swings said shield at an angle to the vertical about said first named pivots.

1,389,146. AERIAL PROPELLER. PIERRE LEVASSEUR, Paris, France. Filed July 25, 1918. Serial No. 246,657. 2 Claims. (Cl. 170—159.)



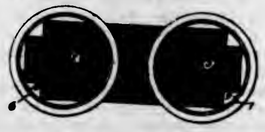
1. In a propeller a plurality of blades, each composed of plane layers of wood disposed in planes parallel to a plane which is approximately perpendicular to the reaction of the air on the blades.

1,389,147. AUTOMATICALLY-CONTROLLED VAPOR-CONVERTER SUBSTATION. WILLIAM V. LOVELL, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 3, 1917. Serial No. 194,457. 6 Claims. (Cl. 175—363.)



1. The combination with an alternating-current source and a direct-current consuming circuit, of a plurality of vapor converters and means for selectively connecting one or more of said converters to said source and to said circuit in accordance with the gas pressure within said converters.

1,389,148. TRANSFORMER. WILLIAM M. MCCONAHEY, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 8, 1917. Serial No. 173,510. 3 Claims. (Cl. 175—356.)



1. The combination with members to be electrically insulated from one another, of an insulating structure

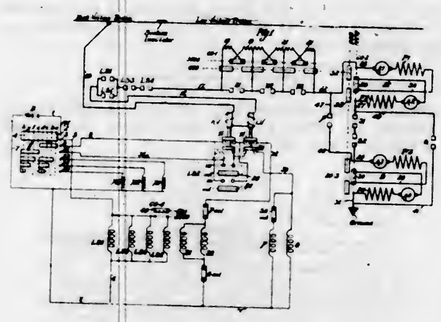
interposed therebetween that is in mechanical contact with certain edges of at least one of said members, and means for subjecting said insulating structure to uniformly distributed dielectric stresses and simultaneously avoiding a short-circuited turn.

1,389,149. INSULATING-COIL AND METHOD OF MAKING SAME. JESSE E. MATEER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 1, 1917. Serial No. 189,393. 7 Claims. (Cl. 175—21.)



1. An insulated coil comprising conductors, strips of pervious insulating material separating the conductors from one another, and layers of pervious insulating material surrounding the entire group of conductors, said layers of insulating material being impregnated with a hardened and a mechanically pressed and smoothed phenolic condensation product to form a permanently smooth exterior surface for said coil.

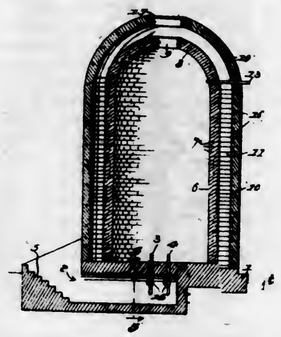
1,389,150. SYSTEM OF CONTROL. HARRY R. MEYER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 17, 1918. Serial No. 258,537. 8 Claims. (Cl. 172—179.)



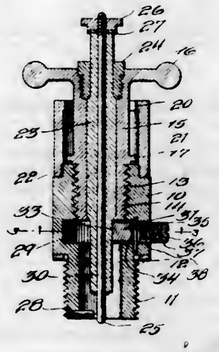
1. In a system of control, the combination with a plurality of supply circuits of materially different voltages and a dynamo-electric machine, of means for preventing predetermined abnormal operating conditions in said machine during operation from any one of said supply circuits, and means operative only during one type of system operation for preventing effective action of a portion of the first-mentioned means.

1,389,151. CISTERN. WILLIAM F. MISEGADIS, Lorton, Nebr. Filed July 23, 1920. Serial No. 398,598. 4 Claims. (Cl. 72—9.)

1. A cistern adapted to stand above the ground, comprising a base, a container arranged upon said base consisting of a brick wall, an outer wall completely housing said container and spaced therefrom forming an air space therebetween, flexible truss members arranged between said walls whereby the container will be protected from external pressures, and the outer ends of said truss members being embedded within the adjacent faces of said walls substantially as and for the purpose specified.



1,389,152. SPARK-PLUG. ROBERT WILLIAM MOORE, St. Louis, Mo. Filed Sept. 18, 1919. Serial No. 324,385. 8 Claims. (Cl. 123—169.)



1. A spark plug of the character described, comprising a tubular body portion interiorly screw-threaded and provided with an interior chamber, a tubular carrier having a screw-threaded portion engaging within the tubular body portion, a flange formed upon the carrier and having stop lugs, a stop cap secured to the body portion and having a flange provided with openings for the passage of the lugs, an insulating sleeve held within the carrier, a cleaning element arranged within the interior chamber and engaging the insulating sleeve, and an electrode arranged within the insulating sleeve, and a coacting electrode arranged near the first named electrode.

1,389,153. RESILIENT WHEEL. GEORGE W. MOREHOUS, Callao, Utah. Filed Nov. 19, 1919. Serial No. 339,024. 4 Claims. (Cl. 152—46.)

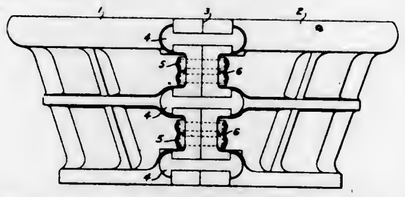
1. A resilient wheel comprising an inner hub, an outer hub including a pair of companion sections, fastening elements extending through the inner hub for uniting the

sections of the outer hubs together, an annular cushioning member interposed between the inner and outer hubs and



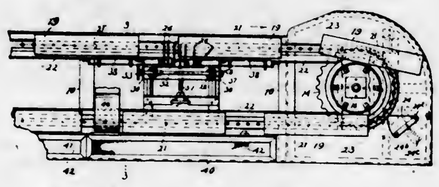
cylindrical pneumatic cushioning members carried by the inner hub for receiving and supporting said fastening elements.

1,389,154. METHOD OF FASTENING. RAY C. NEWHOUSE, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a Corporation of Delaware. Filed Dec. 5, 1917. Serial No. 206,103. 2 Claims. (Cl. 29—84.)



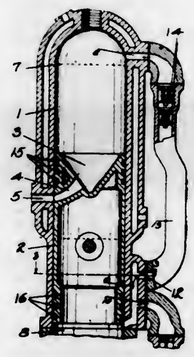
1. The method of fastening together a plurality of elements by means of a hollow connecting member having a pair of adjustable clamping surfaces, by immovably associating the connecting member at its medial portion with said elements whereby free expansion of the member away from said medial portion is permitted, heating the interior of the connecting member to cause expansion of the ends thereof away from said medial portion, adjusting the clamping surfaces toward said medial portion while said member is heated, and permitting said member to contract to draw said elements together.

1,389,155. LEAD-BURNING MACHINE FOR STORAGE-BATTERY PLATES. PAUL E. NORRIS, East Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Oct. 10, 1918. Serial No. 257,676. 10 Claims. (Cl. 113—59.)



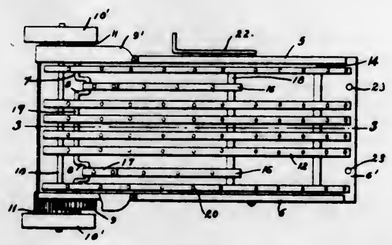
1. In a machine for lead-burning straps to groups of storage battery plates, an elongated conveyer frame, a conveyer in the form of an endless chain traveling in substantially a horizontal path, racks carried by the conveyer adapted to be carried through a closed path, and lead-burning apparatus including flame directing devices located at one side of the frame, and tables for loading and unloading the racks at the opposite side of the frame.

1,389,156. TWO-CYCLE ENGINE. COURTLAND N. PACKER, Battle Creek, Mich. Filed Nov. 10, 1920. Serial No. 423,064. 3 Claims. (Cl. 123—74.)



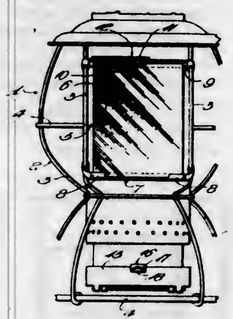
1. In a two cycle engine, the combination of a cylinder and a piston having a centrally disposed inverted conical recess in its head and an exhaust passage leading from the inner end of said recess, said cylinder being provided with an exhaust port with which said piston passage registers when the piston is at the end of its in-stroke, and with an inlet port opening into the cylinder at a point beyond the out stroke of the piston, there being a compression chamber at the inner end of the piston provided with a delivery connection to said inlet port and piston rings at the ends of said piston, the rings at the head end of the piston being at the outer side of the exhaust passage of said piston.

1,389,157. SEED-STRIPPER. WILLIAM J. PARTTRIDGE, Clinton, La. Filed Aug. 12, 1920. Serial No. 402,945. 2 Claims. (Cl. 56—207.)



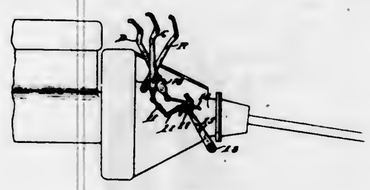
2. In an attachment for mowers, a seed pan including side members, a power shaft supported by the side members, said power shaft having crank arms, a plurality of agitating arms supported between the side members, relatively short agitating arms associated with the first mentioned arms and having connection with the crank arms of the power shaft, means for supporting the arms in spaced relation with each other, means for transmitting motion to the agitating arms, and means for raising and lowering the seed pan.

1,389,158. SIGNAL-LANTERN. LOUIS D. PETERS, Jackson, Ohio. Filed Oct. 4, 1920. Serial No. 414,590. 2 Claims. (Cl. 240—39.)



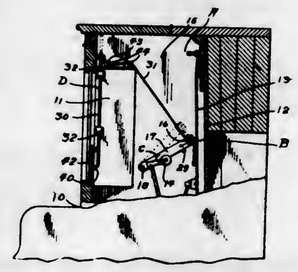
1. In combination, a lantern provided with a chimney guard in the form of an open-work wire cage having a relatively large space in one side, the wires of said cage being disposed horizontally and vertically and spaced from one another, a cross-piece carrying spaced channel seats, said cross-piece being disposed horizontally between and connected to the vertical wires and bounding the lower side of said open space, and an angle-iron spaced above and arranged in parallelism with the aforesaid cross-piece, being disposed between the same vertical wires at the upper side of said space, a piece of colored glass arranged in the aforesaid open space, having its lower edge resting in said seats, its upper end coacting with said angle-iron, the horizontal flange of the latter being notched intermediate its ends, and a spring retainer for the glass carried by said horizontal flange, including a tongue depending through said notch and extending in front of said glass to hold the latter in place.

1,389,159. BRAKE ATTACHMENT FOR AUTOMOBILES. FREDERICK REYNOLD PETERSON, Spokane, Wash. Filed Nov. 22, 1919. Serial No. 339,880. 1 Claim. (Cl. 74—81.)



In an automobile brake mechanism, in combination, a service brake foot pedal, a transverse rocking controller shaft in the rear of said pedal, a speed crank arm on said shaft, and connecting means between the lower end of said pedal and said crank arm, said means comprising a casting including a waist portion having a transverse socket by which it is pivotally mounted on one end of the aforesaid pedal shaft, an upper arm extending from said waist portion in a plane oblique to the longitudinal axis of said casting and against said pedal lever, perforated lugs extending from the opposite edges of the waist portion, a U bolt embracing said pedal lever and adjustably connected at its free ends with said perforated lugs, said upper arm having adjacent its upper end rearwardly bent claws projecting from its opposite edges and engaging the side edges of said pedal lever to prevent lost motion between said arm and pedal lever, a lower arm projecting from the waist portion below the socket, and offset laterally with respect to the longitudinal axis of the casting, said lower arm terminating in an eye or transverse opening, and a link connecting said eye with the aforementioned crank arm, said link comprising a rod having longitudinally bent body portion, a lateral extension at its upper end removably held in said eye, the lower portion of said link offset laterally and terminating in a loop slidably engaging the crank arm below the usual cam carried at the end thereof.

1,389,160. TONE-MODULATING DEVICE FOR PIANOS. ROLAND C. PINDER, Lima, Ohio, assignor to P. & F. Manufacturing Company, Minster, Ohio, a Firm composed of George H. Knostman and Alfred B. Fischer. Filed Sept. 8, 1920. Serial No. 408,811. 5 Claims. (Cl. 84—224.)



1. The combination with a piano including strings and hammers, of an attachment for the piano including a rail, arms carried by the rail, means pivotally securing the free terminals of the arms to the piano, a plurality of flexible finger strips secured to the rail and arranged between the strings and hammers, a vertically disposed sliding operating rod, friction guides for said rod to hold the same in adjusted position, and a flexible cable connected to the upper end of said rod and to the rail whereby upon movement of the rod, the rail will be raised or lowered.

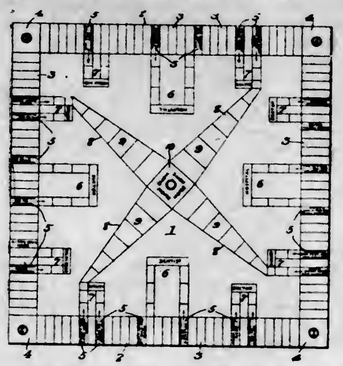
1,389,161. METHOD OF PRODUCING TRANSPARENT EMULSION. THOMAS M. RECTOR, Baltimore, Md., assignor to Musher & Company, Incorporated, New York, N. Y., a Corporation of Delaware. Filed Nov. 11, 1919. Serial No. 337,288. Renewed July 23, 1921. Serial No. 487,128. 2 Claims. (Cl. 167—7.)

1. The method of producing a transparent emulsion consisting in adding to one or more of the substances to be emulsified, such products soluble therein as will render the refractive indices of the substances identical and then emulsifying the same.

1,389,162. EDUCATIONAL GAME. CHARLES PAUL REED, Indiana, Pa. Filed June 25, 1920. Serial No. 391,588. 3 Claims. (Cl. 46—63.)

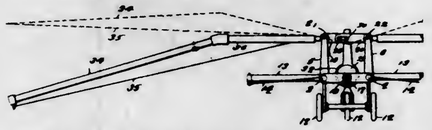
1. In an instructive or educational game, the combination with a game board comprising a continuous main circuit divided into spaces, some of said spaces containing hazards or legends involving certain problems, of a series of sub-circuits or branching off retarding spaces containing penalties, to which the players are directed, and around which they are conducted from, and returned to,

the main circuit, said branches indicating the necessary answers for, or relief from said problems, and a home



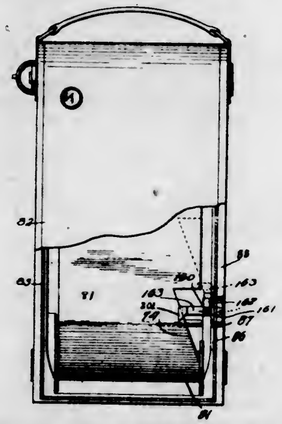
sector furnishing the final objective adapted to be connected to certain selected sub-circuits or branching off sections.

1,389,163. AEROPLANE. PAULUS JACOBUS REUSER, Amsterdam, Netherlands. Filed Jan. 22, 1921. Serial No. 439,224. 5 Claims. (Cl. 244—20.)



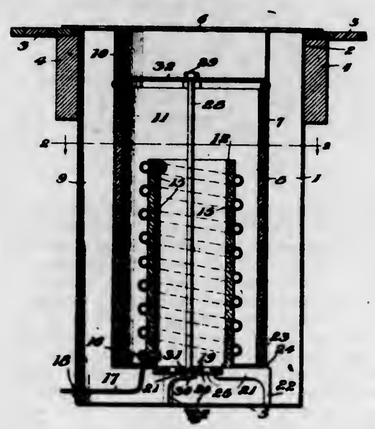
1. In an aeroplane, a tail plane, wings pivotally mounted on longitudinally extending rods, a motor and transmission mechanism between said motor and said wings for oscillating them, each wing consisting of two inflexible connected planes having a frame rigid throughout its length, said planes being at a permanent angle to each other in order that the air may be scooped and compressed by the wing as it descends but cut by the wing as it ascends, without independent movement of any part of the wing.

1,389,164. BACK-LOCK FOR CAMERAS. ANDREW H. ROIKJER, Boise, Idaho. Filed July 1, 1920. Serial No. 393,823. 5 Claims. (Cl. 95—31.)



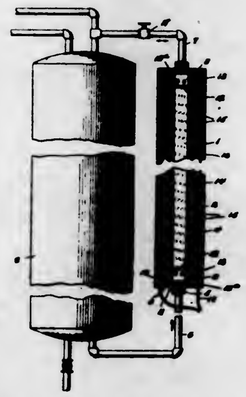
1. In a camera adapted to be used with a film having a cutout or notched portion in its leader, the combination of a spring-controlled locking element adapted to engage the cutout portion of the leader and to be swung from a non-locking to a locking position by the winding of the film, and a camera back having a slotted portion adapted to be engaged by the aforesaid locking element when the leader portion of the film is wound, whereby to lock the camera back to the camera until the completion of the winding of the film.

1,389,165. ELECTRIC HOT-AIR HEATER. OLIVER P. SCOTT, Tacoma, Wash. Filed Sept. 1, 1920. Serial No. 407,391. 7 Claims. (Cl. 219—39.)



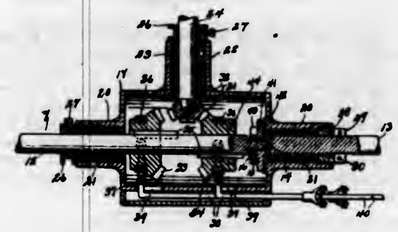
1. An electric air heater of the class described including an outer casing, a radiator or grating extending across the top of the outer casing, an inner wall or casing arranged within the outer casing in spaced relation with the walls of the same and having a portion extending entirely up to the said casing to prevent air from passing over the top of the inner wall or casing, and a heating element arranged within the inner wall or casing and adapted to cause a positive circulation through the heater.

1,389,166. WATER-HEATER. OLIVER P. SCOTT, Tacoma, Wash. Filed Sept. 25, 1920. Serial No. 412,741. 2 Claims. (Cl. 219—39.)



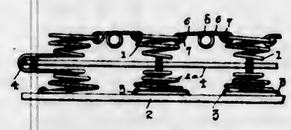
1. A water heater of the class described including inner and outer tubular members spaced apart to provide an intervening water space, heads provided with threaded openings to receive pipe connections and counterbored at the inner portion to form seats for the ends of the inner tubular member, the latter being provided in its terminal portions with openings communicating with the said water space, said outer tubular member being secured to the exterior of the counterbored portions of the heads and the latter being enlarged exteriorly to form seats for the outer tubular member, spaced closures arranged within the inner tubular member and located between the openings, a heating coil, and a body of non-conducting material also supporting the heating coil.

1,389,167. AUTOMOBILE POWER-TRANSMITTING DEVICE. SAMUEL L. SHUSTER and GEORGE J. RIEGERT, St. Joseph, Mo. Filed Dec. 27, 1919. Serial No. 347,823. 3 Claims. (Cl. 74—7.)



1. An automobile power transmitting device, comprising a main auto drive shaft, composed of front and rear sections, a housing forming bearings for the sectional portion of said shaft, a transverse shaft having its outer end provided with a power communicating element, and its inner end journaled in said housing and provided with a beveled gear, a pair of separately and independently sliding beveled gears keyed on the front section of said drive shaft within said housing and upon opposite sides of said first gear, and independent gear shifting means for separately moving either of said pair of gears into engagement with said first gear.

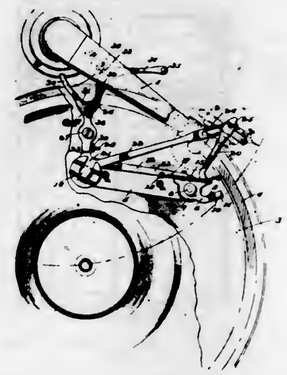
1,389,168. BED-SPRING AND AUTO-CUSHION. ANDREW FREDERIC STURM, Nehawka, Nebr. Filed Sept. 11, 1920. Serial No. 409,530. 4 Claims. (Cl. 5—29.)



2. In a mattress or cushion, the combination with the supporting frame, of coil springs seated on the frame, each spring consisting of two similar portions of greatest diameter at the outer ends, and tapering toward their meeting ends, and connected by a coil offset radially from the axis of the spring, a frame passing through the coils of the outermost springs of the mattress, and resilient connections between the outermost coils of the adjacent springs.

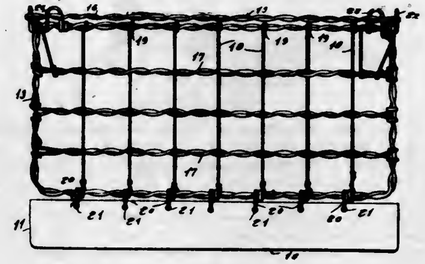
1,389,169. AUTOMATIC STARTING AND STOPPING MECHANISM FOR PHONOGRAPHS. JULIUS C. TORCHIA, Hazleton, Pa. Filed June 9, 1920. Serial No. 387,655. 6 Claims. (Cl. 192—116.)

1. In automatic starting and stopping mechanism for phonographs controlled through the movement of the tone arm, a brake member, a tripping member mounted for oscillatory movement and connected with the brake member, means tending to move the brake member to active position, a detent for holding the brake member in inactive position and adapted to be rendered inactive upon



movement of the tripping member in one direction, and an actuating element for movement with the tone arm and for coaction with the tripping member.

1,389,170. POULTRY-CRATE. WILLIAM TUCKER, Fruitvale, Tex. Filed June 4, 1918. Serial No. 238,123. 2 Claims. (Cl. 220—6.)

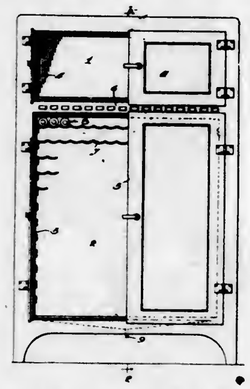


1. A crate having a bottom provided with upwardly extending side and end wall extensions terminating in reinforcing beads, side and end walls having marginal and filler elements of which the latter are extended beyond the lower marginal elements and are provided with eyes or loops passing through openings in the upper edge portions of the wall extensions of the bottom to hingedly connect said walls with the wall extensions of the bottom, and a top or cover having marginal and filler elements and an opening fitted with a displaceable gate, said top or cover being adapted to be nested within said bottom.

1,389,171. REFRIGERATOR. BENDETTO URSO, Watson, W. Va., assignor of one-half to Chester C. Shinn, Fairmont, W. Va. Filed Oct. 30, 1919. Serial No. 334,425. 1 Claim. (Cl. 45—71.)

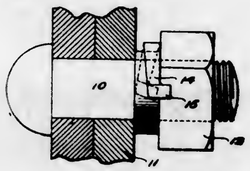
A refrigerator having its interior divided into communicating chambers forming, respectively, an upper ice chamber and a lower storage chamber, an ice-rack between the chambers, a drain in the storage chamber, and a plurality of vertically spaced shelves extending transversely of the storage chambers between the drain and the ice-rack for supporting articles in the path of

the ice-drippings, said shelves provided with means for successively collecting and draining the drip-water from



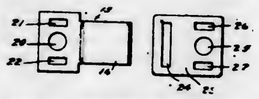
the articles of a higher shelf to the articles of a lower shelf whereby the drip-water may be brought into direct contact with each article of every shelf.

1,389,172. NUT-LOCK. ERNEST WARD, Independence, Mo. Filed Sept. 7, 1920. Serial No. 408,447. 1 Claim. (Cl. 151—51.)



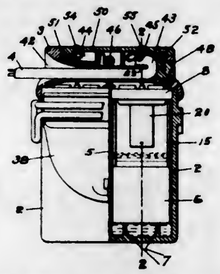
A nut lock comprising a washer formed of a single strip of material and tapering in width at one end and in thickness at its opposite end, the said strip being coiled to provide an annulus having the tapered width end located in the innermost convolution and the tapered thickness in the outermost convolution, whereby the latter may be moved transversely of the width of the washer within said width and a lug carried by the tapered end of the strip and disposed axially of the washer and normally projecting beyond its edge.

1,389,173. SNAP-FASTENER. WILLIAM F. WATKINS, Seattle, Wash., assignor to Watkins Appliance Company, Inc., Seattle, Wash., a Corporation. Filed Sept. 7, 1920. Serial No. 408,427. 6 Claims. (Cl. 24—201.)



4. A snap fastener comprising a snap member formed of a thin flat piece of resilient metal bent double midway of its length and having its two parts spaced from each other toward the forward end thereof with the terminal end of one hook normally engaging the outer flat face of the other hook, hook members formed by bending the extremities of the two parts of said snap member inwardly at an angle of more than ninety degrees thereby leaving a V shaped guideway that extends across the forward end thereof, and a clip formed of a thin flat piece of metal having a transverse slot near the forward edge thereof within which said hook members may engage.

1,389,174. STORAGE BATTERY. GRANT WHEAT, Marlboro, Mass., assignor to Koehler Manufacturing Company, Marlboro, Mass., a Corporation of Massachusetts. Filed Aug. 6, 1919. Serial No. 315,684. 16 Claims. (Cl. 204—29.)



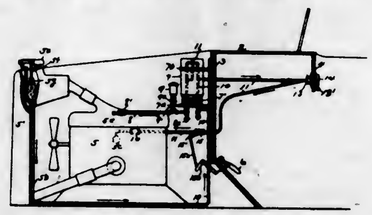
1. A storage battery, having, in combination a casing provided with an open end, battery elements located in said casing, and a seal for said open end comprising a yielding gasket positioned in said end, upper and lower cover plates having marginal portions bearing on said gasket, and screw threaded means for forcing said plates toward each other to expand the gasket into firm engagement with the walls of said opening, said screw threaded means extending into, but not through, said lower cover plate.

1,389,175. MAKINGS-TOBACCO POUCH. THOMAS WRIGHT, Grandview, Manitoba, Canada. Filed Mar. 2, 1920. Serial No. 362,856. 1 Claim. (Cl. 150—0.5.)



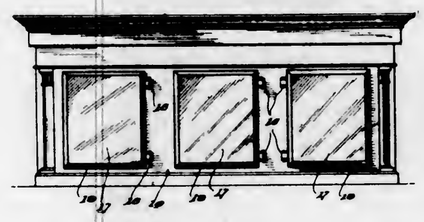
A pouch having foldable members, a tobacco receiving pocket carried by one of said members opening in the direction of the fold line of the members and having its opening arranged in close proximity to said fold line, a narrow flap secured at the fold line of said members for closing said pocket and for use as a guide for directing the tobacco into a cigarette paper, a pocket carried by the other of said members for the reception of a package of cigarette papers and opening in the direction of the fold line of the members and having its opening spaced slightly from said fold line, said package adapted to engage said flap and thereby securely close said tobacco pocket when the members are in their closed relation, and releasable means for securing said members in such relation.

1,389,176. COMBINED LUBRICATOR AND HUMIDIFIER. EUGENE E. YOUNG, Syracuse, N. Y. Filed Sept. 10, 1920. Serial No. 409,462. 5 Claims. (Cl. 123—25.)



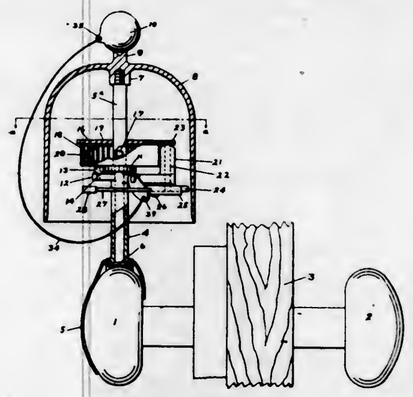
1. The combination with a radiator and a water cooled internal combustion engine having an intake manifold, of a tank adapted to supply a vapor to said manifold, a pipe for conducting hot vapor from the radiator into the bottom of said tank, an oil cup located outside of the tank, a pipe for conducting a portion of the cooling water from the engine and also oil from said cup into the bottom of said tank, a pipe for conducting aqueous vapor impregnated with oil from said tank to said manifold, and a gage for predetermining the volume of the vapor that may be drawn from said tank.

1,389,177. DISPLAY APPARATUS. WILLIAM R. AIMES and GEORGE H. T. SCHAEFER, Atchison, Kans. Filed July 19, 1919. Serial No. 312,004. 13 Claims. (Cl. 40—96.)



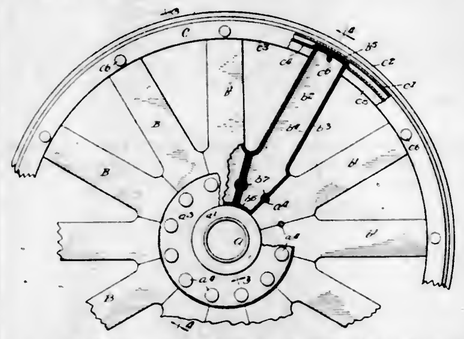
1. In a display apparatus, the combination of a cabinet having a display window therein a door in the back of said cabinet, an endless belt traveling in a plurality of substantially vertical runs within said cabinet, means for moving said belt past said window, the rearmost run of said belt being pivotally supported whereby it may be moved outwardly through the door opening in the rear of said cabinet.

1,389,178. PORTABLE BURGLAR-ALARM. FRANK BACON, Bayside, N. Y. Filed Nov. 23, 1920. Serial No. 425,977. 2 Claims. (Cl. 116—79.)



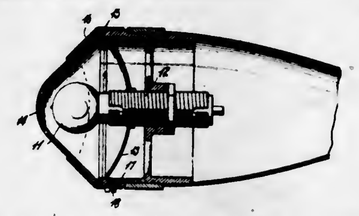
1. A device of the type described comprising a bell having an open bottom, an upright supporting member projecting through the open bottom of said bell, for attachment to the inner top portion of the latter, a spring clamp secured to the lower end of said supporting member for attachment to the inner knob of a door. clapper mechanism secured to said upright member within the bell, a weight, and a flexible connection between said weight and clapper mechanism for the purpose specified.

1,389,179. METAL WHEEL. GERALD G. BARRY, Chicago, Ill. Filed Aug. 9, 1919. Serial No. 316,513. 6 Claims. (Cl. 301—85.)



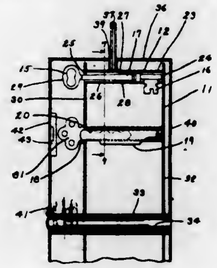
1. In a wheel, the combination with suitable hub and rim members of a supporting structure between the said two members consisting of a series of spokes, each spoke comprising a complemental pair of pressed metal members, the main body plates being spaced apart, an integral flange on each following around the body plate, the flange from one side plate telescoped within the other, and both said flanges extending substantially across the spaced distance between the main plates, substantially as set forth.

1,389,180. ILLUMINATION-LIGHT. ROBERT H. BENNETT, Washington, D. C. Filed Dec. 6, 1920. Serial No. 428,570. 4 Claims. (Cl. 240—48.4.)



1. In a device of the character described, in combination, a lamp casing having an opening, a substantially conical globe covering said opening in the lamp casing, a source of light within the casing and in close proximity to the apex of said globe, a shield operatively associated with the globe having an opening formed by the intersection of two planes permitting the emission of light through a dihedral angle.

1,389,181. KEY-CABINET. JACOB BENSON, Bristol, Conn. Filed Aug. 26, 1920. Serial No. 406,065. 7 Claims. (Cl. 211—7.)



1. A key cabinet structure comprising a casing having a rear wall that is adapted to be opposed to a supporting

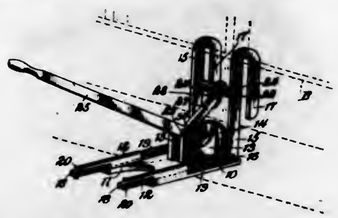
wall, a shaft extended forwardly from said rear wall nd supported therefrom in fixed position, a drum having a plurality of sockets mounted to rotate on said shaft, the receiving ends of said sockets being positioned at the end portion of said drum that is remote from said rear wall, a handle for rotating said drum, and said handle being connected to the drum at the periphery thereof, and in a radial plane intermediate said receiving ends and rear wall.

1,389,182. ROTARY WASHING-MACHINE. GOTTLOB BINDER, Palmyra, N. J. Filed Mar. 31, 1920. Serial No. 370,094. 2 Claims. (Cl. 68—18.)



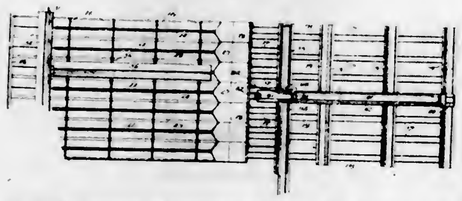
1. A washing machine comprising a cylinder, a plurality of longitudinal ribs extending in a radial direction from the inner face of the cylinder, said ribs being of general oval form, the diameter of said ribs being greater between the ends than at the ends and having longitudinal corrugations arranged to be engaged by articles being washed, the inner face of the cylinder between the ribs being of concave form.

1,389,183. WRECKING-TOOL. EDWARD F. BURKE, Sioux City, Iowa, assignor of one-fourth to John M. Lichty, Sioux City, Iowa. Filed July 20, 1920. Serial No. 397,652. 9 Claims. (Cl. 251—131.)



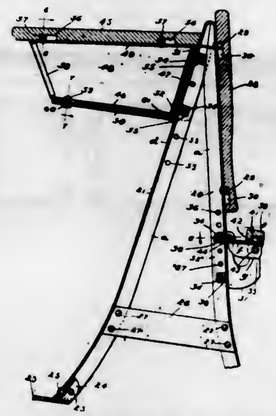
1. In a wrecking tool, a base or frame, a lever pivotally mounted on the frame, a pulling hook slidably mounted on the frame, means imparting to the hook a normal tendency to remain in a position at one end of the frame and projecting beyond said end whereby the hook may engage over a board without displacement from its normal position, and means connecting the hook and lever whereby swinging the lever slides the hook toward the other end of the frame.

1,389,184. METHOD AND PLANT FOR STORING AND AVERAGING MATERIALS. DAVID COLE and JULIUS BERGMAN, El Paso, Tex. Filed Dec. 3, 1919. Serial No. 342,299. 20 Claims. (Cl. 214—17.)



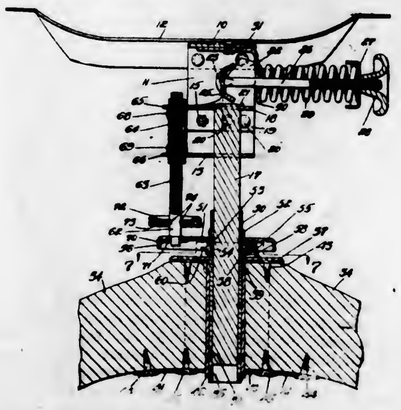
1. That method of conserving heat in the storage of ores in a series of parallel juxtaposed bins, which consists in bedding a series of adjacent bins less than the whole number of bins; thereafter bedding the empty bin adjacent one end of said series and simultaneously reclaiming ore from the full bin at the opposite end of said series, and continuing these bedding and reclaiming operations at opposite ends of the series of bedding bins, the transfer of such operations from bin to bin proceeding in like directions at opposite ends of said series of bedded bins.

1,389,185. COMBINED SCHOOL DESK AND SEAT. DAVID R. COLLINS, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Filed Mar. 18, 1919. Serial No. 283,360. 1 Claim. (Cl. 45—6.)



In a school desk, side standards, sheet-metal end walls each having inturned marginal flanges at its upper and lower edges, said flanges being formed with downwardly and upwardly extending lips, respectively, and the upper flange having top-securing studs, a top resting upon the upper flanges and interlocked with said studs, a bottom resting upon the lower flanges and secured thereto, and a front wall embraced by said lips and held thereagainst by said bottom, said end walls having forwardly extended portions secured to said side standards.

1,389,186. CHAIR-IRON. DAVID R. COLLINS, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a Corporation of Massachusetts. Filed Dec. 9, 1920. Serial No. 429,341. 17 Claims. (Cl. 155—93.)

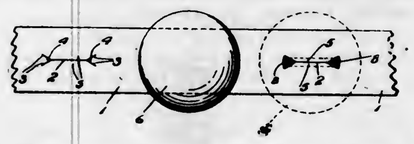


1. In a chair iron, a seat-supporting head, a non-rotatable main hub, a spindle fixed to said head and having a sliding and rotatable engagement with the inner wall of said hub, and head adjusting means parallel to said spindle, resting rotatably on said hub and adapted to rotate with said spindle and to slide said spindle in the hub.

1,389,187. PROCESS FOR THE MANUFACTURE OF VALERIANIC ACID AND OF ALKALINE VALERIANATES. LUCIEN DUPONT, Vincennes, France, assignor to himself and Societe Darrasse Frères, Paris, France. Filed Dec. 20, 1919. Serial No. 346,430. 5 Claims. (Cl. 23—24.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat L., 1313.)

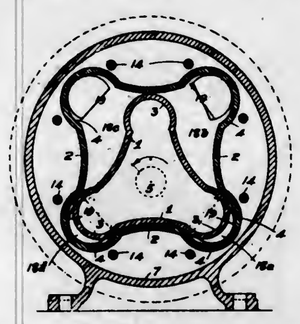
1. A process for making alkali-valerianates and valerianic acid, comprising heating, under super-atmospheric pressure, caustic soda and amyl-alcohol so as to react to form sodium valerianate, the representative temperature limits being 235–250° C.

1,389,188. PACKAGE OF BUTTONS. WILLIAM E. ELLIOTT, Grand Rapids, Mich., assignor to American Button & Fastener Company, a Corporation of Maine. Filed Jan. 17, 1916, Serial No. 72,651. Renewed June 8, 1918. Serial No. 238,061. 21 Claims. (Cl. 218—28.)



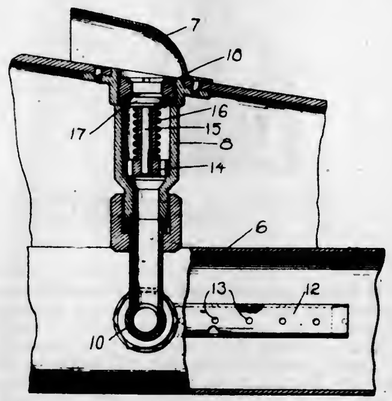
1. In a package of buttons, a member having an elongated cut therethrough with branch cuts at each end of said elongated cut located at an angle to each other, thereby forming a tongue at each end of the elongated cut and a locking tongue at each side of said cut, and a button having a loop attached to said member by the said tongues, substantially as described.

1,389,189. ROTARY MOTOR OR PUMP. ERNEST FEUERHEERD, Walton, England. Filed June 10, 1919. Serial No. 303,198. 3 Claims. (Cl. 103—44.)



3. In a rotary apparatus, the combination with an outer member of an inner member contained therein and eccentric thereto, said inner member having three or more projections formed with cylindrical surfaces of more than semi-circular cross sections, and said outer member having a number of recesses greater by one than the number of said projections formed with flat surfaces with which the said cylindrical projections engage to form fluid tight pockets of varying capacity, means for mounting the members for relative rotary motion, the said cylindrical projections being formed about axes which pass through the corners of an equilateral polygon and said recesses being formed about axes which pass through the corners of an equilateral polygon having one more side, all of the sides of said polygons being of equal length.

1,389,190. TORPEDO. JAMES A. FLINT, Denver, Colo., assignor to the Government of the United States. Filed Oct. 16, 1920. Serial No. 417,471. 1 Claim. (Cl. 114—20.)

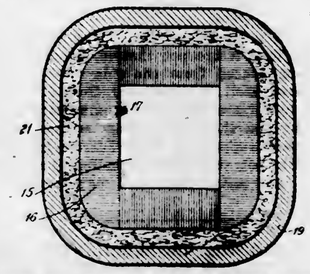


In a torpedo, in combination, two exhaust tubes extending longitudinally at opposite sides of the after-body, a centrally disposed vertical pipe, branch pipes at one end thereof extending to each exhaust tube, spray pipes longitudinally disposed centrally in said exhaust tubes and communicating with said branch pipes, a valve at the opposite end of said vertical pipe, a scoop on the outside of said torpedo adapedt to direct water downwardly into said vertical pipe against the valve and spring means adapted to hold the valve closed until overcome by the pressure of the water thereagainst.

1,389,191. TITANIUM PIGMENT AND METHOD OF ITS PRODUCTION. VICTOR MORITZ GOLDSCHMIDT, Christiania, Norway, assignor to Titan Co. A/S., Christiania, Norway. Filed Sept. 27, 1918. Serial No. 255,960. 14 Claims. (Cl. 134—58.)

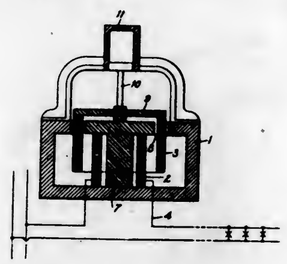
1. Process of producing titanium pigments from titaniferous materials, which comprises heating said materials together with a reducing agent until titanium is present in the trivalent form.

1,389,192. HEATER AND HEAT INSULATION. WILLIAM S. HADAWAY, Jr., New Rochelle, N. Y. Filed July 26, 1917. Serial No. 182,815. 14 Claims. (Cl. 219—19.)



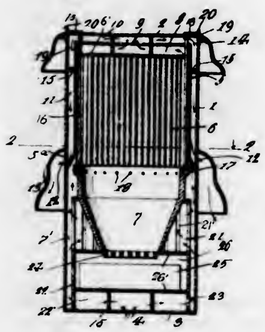
1. A heat insulating means comprising a porous body of heat insulating material, and means for causing a heat carrying fluid to flow through the body in opposition to the flow which the heat losses tend to produce.

1,389,193. REACTANCE-COIL. GEORGE HARLOW, Altrincham, England, assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 20, 1916. Serial No. 104,793. 4 Claims. (Cl. 171—242.)



1. A reactive protective device for an electrical circuit comprising two relatively movable coils, one of said coils being adapted for connection in the electrical circuit and the other coil being closed upon itself, a magnetic circuit therefor, means for retarding the movement of one of the coils when an increased mutual repulsion between the coils results from abnormal current conditions obtaining in the associated electrical circuit.

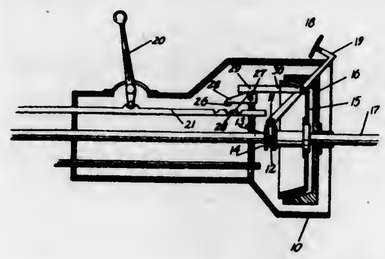
1,389,194. HEATING-STOVE. HENRY H. HARRIS, Peru, Ind. Filed Dec. 6, 1918. Serial No. 265,581. 5 Claims. (Cl. 126—67.)



4. In a heating stove, an outer casing having an opening in its bottom, a fire pot therein, a supporting shell in said casing spaced from the side walls thereof, the bottom of said shell being spaced from the bottom of said casing to form a chamber communicating with the space between the shell and casing, an ash chamber in said shell, said supporting shell surrounding and supporting the fire pot and having openings therein whereby air between said casing and shell may circulate around the fire pot.

1,389,195. GEAR-SHIFTING MECHANISM. LOREN B. HORR, State College, N. Mex. Filed Feb. 7, 1920. Serial No. 356,970. 2 Claims. (Cl. 74—83.)

1. In a transmission lock-out, gear shifting rods, means for operating the said rods, the said rods having recesses, a dog, means for pivotally mounting the dog whereby it enters the recesses of the rods, serrations on the edge of said dog, a link having teeth engaging the serrations of the



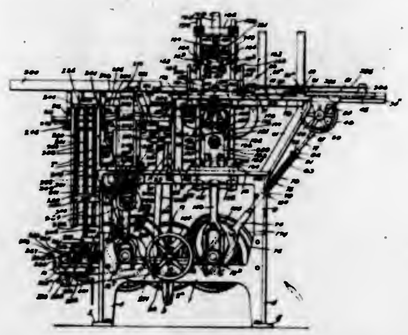
dog, a clutch operating lever, and means whereby the said link and clutch operating member are operated simultaneously.

1,389,196. RIBBON-BRACELET CLASP. RUFUS KING, Plainville, Mass., assignor to Bugbee & Niles Company, North Attleboro, Mass. Filed Mar. 7, 1921. Serial No. 450,358. 4 Claims. (Cl. 24—213.)



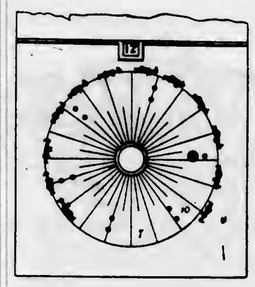
1. In a clasp, a male member having upper and lower confronting pairs of ribbon engaging arms and having a longitudinal slot between the arms, a curled clasp borne by each side of the member and disposed central of the length thereof and extending outwardly from the respective opposite sides of the slot, and a female member formed of a blank having a ribbon receiving slot and having an opening with end walls for engagement with the respective clasps, the opening being common to each clasp and receiving both.

1,389,197. TRAY-MAKING MACHINE. ALOYSIUS J. KUSTERER, Richmond, Va., assignor to Consolidated Paper and Box Manufacturing Company, Richmond, Va., a Corporation of Virginia. Filed May 29, 1920. Serial No. 385,361. 61 Claims. (Cl. 93—41.)



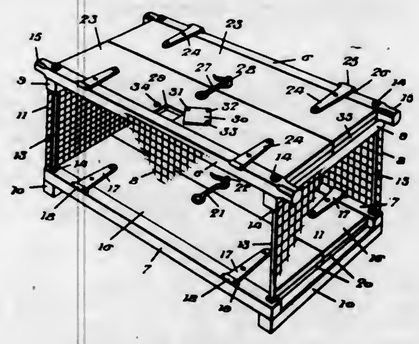
1. In a tray forming mechanism, the combination of forming devices, means for feeding blanks singly to said forming devices including a blank support, means for holding the blanks flat upon said support, guides at opposite sides of said forming devices beneath which the edges of the blanks are adapted to slide, and stops on said guides adapted to register the blanks with the forming devices.

1,389,198. PUZZLE. EMIL LANGE, Montreal, Quebec, Canada. Filed Nov. 29, 1919. Serial No. 341,538. 2 Claims. (Cl. 46—41.)



1. In a puzzle, an outer disk having pictures or characters thereon at the edge portion, a rotatable rear member secured to said disk and a middle sheet member having pictures or characters thereon adapted to complete the aforesaid pictures and characters and formed to limit the travel of the outer disk to bring the parts of the pictures or characters into register on both forward and return rotation.

1,389,199. FOLDING CRATE FOR POULTRY AND OTHER PRODUCTS. CASWELL LEE LEONARD, Corinth, Miss. Filed Feb. 27, 1920. Serial No. 361,614. 4 Claims. (Cl. 217—48.)



1. A folding crate having walls, each comprising upper and lower bars and a fabric panel secured at its upper and lower edges to said bars, the bars of the walls having their terminals overlapping one another, a rod at each corner extending through the corresponding terminals of both the upper and lower bars to hinge said bars together, and elements on said bars for holding them in position and for supporting the upper bars by said rods from the lower bars.

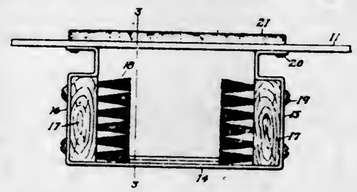
1,389,200. WRENCH. AANE LINDE, Macrorie, Saskatchewan, Canada. Filed Sept. 4, 1920. Serial No. 408,400. 2 Claims. (Cl. 81—63.)

1. A wrench consisting of a handle, a head pivotally mounted in one end of said handle, tension means holding said head at an angle to said handle, a means for locking



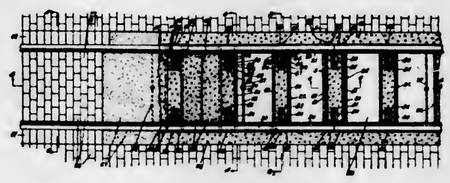
said head at a different angle to said handle and a means for operating said locking means.

1,389,201. SHOE-SCRAPER. ARTHUR P. LINVILLE and CLARENCE E. LINVILLE, Berkeley, Calif. Filed Jan. 2, 1920. Serial No. 348,818. 3 Claims. (Cl. 15—2.)



1. In combination with a vehicle step, a pair of spaced hangers depending therefrom, said hangers each having an opposing offset portion, brush members having rigid backs fixed in the offset of each hanger with their brushes projecting toward each other, and sufficiently separated to frictionally allow a shoe to pass between them, and connecting means between the lower ends of said hangers.

1,389,202. TRACK CONSTRUCTION FOR RAILWAYS. THOMAS H. LOVE, Cincinnati, Ohio. Filed Feb. 21, 1921. Serial No. 446,659. 6 Claims. (Cl. 238—7.)

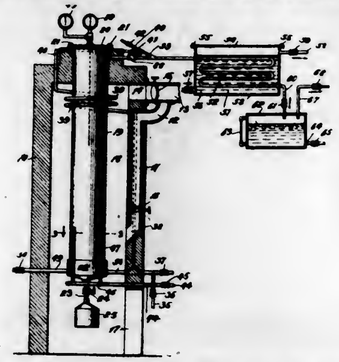


1. A track construction comprising a plurality of concrete ties, rails supported by said ties, means embedded in said ties for securing said rails thereon, integral projections on said ties, and a plurality of bodies of concrete adapted to be poured between said ties and about said integral projections, whereby said ties and said bodies of concrete form an integral support for said rails.

1,389,203. APPARATUS FOR RECOVERING AND SECURING VOLATILE PRODUCTS FROM RELATIVELY FIXED HEAT-RESISTANT SUBSTANCES. HENRI EDWIN LUTZ, Pittsburgh, Pa. Filed Nov. 14, 1918. Serial No. 262,615. 9 Claims. (Cl. 196—19.)

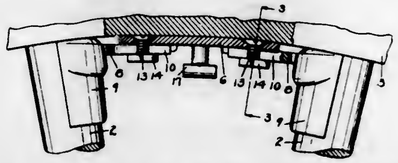
1. An apparatus for distilling carbonaceous material, comprising means for retaining a mass of such material in a relatively thin body, means for heating all parts of said

mass to substantially a minimum distilling temperature, and distillate-emitting passages having an efflux area sub-



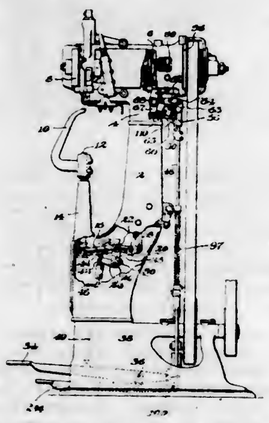
stantially at least as large as the heating surface of the retaining means.

1,389,204. ANTISLIP DEVICE FOR VEHICLE-WHEELS. JOHN MCDERMOTT, Kalamazoo, Mich. Filed Feb. 15, 1921. Serial No. 445,149. 6 Claims. (Cl. 152—14.)



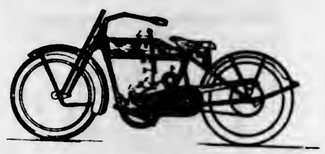
4. In a structure of the class described, the combination of a felly plate having hooks adapted to receive the links of a tread chain, spoke clamps having arms projecting over said felly plate, and bolts for securing said clamping arms to said felly plate.

1,389,205. FASTENING-INSERTING MACHINE. FRED L. MACKENZIE, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 10, 1918. Serial No. 257,592. 36 Claims. (Cl. 1—41.)



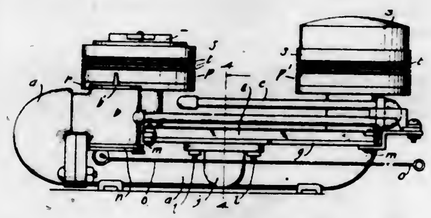
1. In a machine of the class described, in combination, clutch mechanism, a work support, connections between the clutch mechanism and the work support operable to maintain the work support in raised position, and power-operated means for breaking said connections to permit lowering of the work support.

1,389,206. BELT-HOLDER. JOSEPH E. MACMILLAN, Pasadena, Calif. Filed July 6, 1920. Serial No. 394,151. 2 Claims. (Cl. 74—51.)



1. In combination with a motorcycle generator belt, of a member provided with a loop through which said belt freely runs, and means for holding said member between the driving pulleys for said belt, whereby to catch and hold said belt when it jumps from said pulleys, substantially as described.

1,389,207. OIL-BURNER. HARRY W. MANNING, Portland, Oreg. Filed Dec. 15, 1919. Serial No. 345,157. 4 Claims. (Cl. 158—61.)



1. In an oil burner of the type referred to, a burner-head comprising a hollow body provided with horizontal circumferentially extending slits, a plate fastened across the open top of the hollow body, such plate having a perimetric perpendicular flange, being provided with parallel slits above such flange, a dome or cap removably seated on the hollow body over said slitted plate, thereby compelling the gas to issue from said circumferential slits of the burner body.

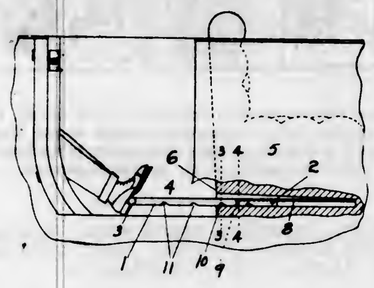
1,389,208. METAL BAND. ALFRED E. MASKREY, Canton, Ohio, assignor, by mesne assignments, of one-half to Kennet Umstead, Salem, Ohio. Filed Nov. 28, 1913, Serial No. 803,519. Renewed Jan. 29, 1921. Serial No. 441,073. 4 Claims. (Cl. 40—31.)



1. A band formed from a strip of pliable sheet metal having a series of spaced recesses in one end portion and a protrusion on the other end portion, and lateral tongues on one of the end portions adapted to be clamped around

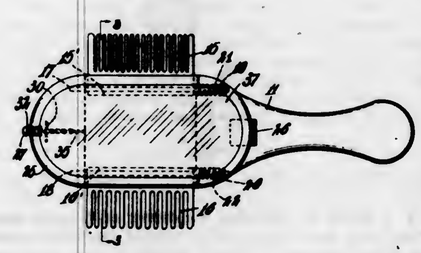
the other end portion to hold the protrusion in engagement with one of the recesses when the end portions are overlapped.

1,389,209. FOOTREST FOR AUTOMOBILES. SAMUEL L. MYATT, St. Louis, Mo. Filed Feb. 14, 1920. Serial No. 358,697. 1 Claim. (Cl. 296—75.)



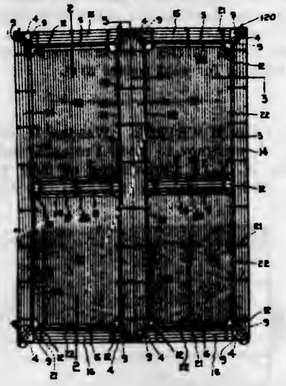
In combination with the front seat of an automobile an adjustable foot rest for passengers upon the rear seat, same comprising a horizontally extended cavity in the base of the front seat; two vertical slots extended outwardly from said cavity through the back of the seat, one at each side of said cavity; a base board horizontally and rigidly mounted in the upper side of the cavity, same having its rearmost edge curved downwardly to form a stop; a lock bar horizontally and transversely mounted inside the cavity adjacent the said slots; a sliding frame made up of two spaced and parallel side bars notched along their under edges and thus adapted to engage said lock bar, an inner cross bar an outer foot rest rigidly connecting said side bars, said frame being mounted through said slots with the inner cross bar adapted to engage said stop of said base board, and the notches in the side bars adapted to engage said lock bar, for locking the frame at any desired point, while the foot rest depends outwardly.

1,389,210. COMB AND BRUSH. STANLEY NOVINSKY, Braznell, Pa. Filed Mar. 25, 1921. Serial No. 455,406. 4 Claims. (Cl. 132—87.)



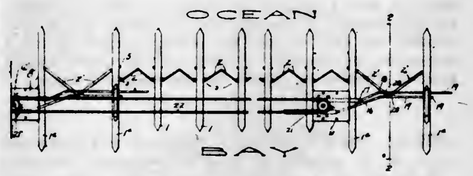
4. A device of the class described comprising a brush including a back having a recess therein, a pair of combs hinged to said back at opposite sides of said recess, springs normally acting to swing said combs to position with the teeth thereof projecting sidewise from the said back, and a removable cover plate adapted to hold said combs against the action of said springs, a pin slidable in said back, a hook on said pin adapted to engage a keeper on said cover plate, and a projecting finger on said pin adapted to engage over the said combs.

1,389,211. MILL-TYPE DOOR. JOHN W. OSBOCK, Montreal, Quebec, Canada. Filed Jan. 24, 1920. Serial No. 358,664. 6 Claims. (Cl. 20—35.)



1. A mill-type door consisting of a metal frame and a multiplicity of wooden strips secured together, the fastenings for securing one strip in place being covered by the next adjacent strip.

1,389,212. APPARATUS FOR CONTROLLING TIDE-WATERS. ALEXANDER PARKER, Etna Mills, Calif. Filed Aug. 19, 1920. Serial No. 404,562. 4 Claims. (Cl. 61—4.)



1. An apparatus for controlling tides at the entrances of bays which communicate with salt water, comprising a series of spaced parallel piers, gates hinged to said piers at corresponding points thereon, a pair of said gates being disposed between each two piers, each gate being of a length somewhat greater than one-half the distance between the piers between which said pair of gates is disposed, whereby, when said pair of gates is closed, said gates will be inclined to each other, said gates opening out from the bay and automatically closable by the incoming tide.

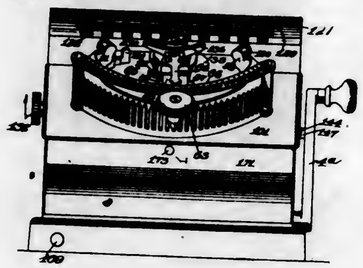
1,389,213. SNAP-SWITCH. THOMAS L. PARKER, Chicago, Ill., assignor to The Standard Electric Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 2, 1918. Serial No. 219,949. 9 Claims. (Cl. 200—69.)



1. In a snap switch of the kind described and in combination, a plate, a pair of spaced bracket arms carried by

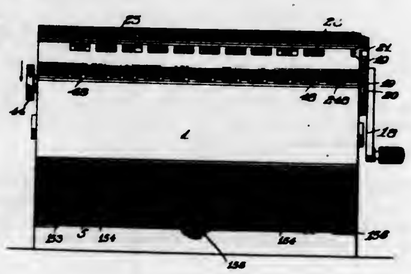
said plate, said bracket arms each having bearings projecting from the inner and outer faces thereof, a brush carrier having open bearings and detachably mounted on the bearings at the outer faces of said bracket arms, a rocker arm having open bearings and detachably mounted on the bearings at the inner face of said brackets, a spring connecting said brush carrier and said rocker arm, and cooperating buttons for said rocker arm.

1,389,214. CHECK-WRITER. WALTER B. PAYNE, Rochester, N. Y., assignor to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 4, 1919. Serial No. 280,591. 41 Claims. (Cl. 101—97.)



1. In a printing machine, the combination with a plurality of type wheels and a setting member therefor, of spring actuated means for operatively connecting each of the type wheels with the setting member, means movable with the setting member for coöperating with the spring actuated means to successively disconnect the setting member and type wheels, the setting member having a motion in one direction to shift the type wheels and in another direction to actuate the disconnecting means.

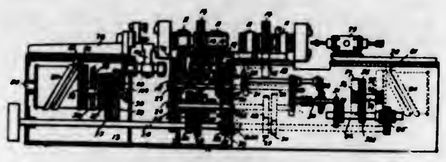
1,389,215. CHECK-WRITER. WALTER B. PAYNE, Rochester, N. Y., assignor to Todd Protectograph Company, Rochester, N. Y., a Corporation of New York. Filed Mar. 4, 1919. Serial No. 280,592. 42 Claims. (Cl. 101—97.)



1. In a printing machine, the combination with a series of type carriers, of a manually operable member for differentially setting the various type carriers, manipulative means for successively connecting and disconnecting the type carriers and the member, and means for indicating the carriers connected and disconnected.

1,389,216. METAL-WORKING MACHINE. JAMES C. POTTER, Pawtucket, R. I. Filed Apr. 12, 1919. Serial No. 289,496. 11 Claims. (Cl. 29—36.)

1. A metal working machine comprising in a unitary organization, a group of independent tool carriers, each having its own path of travel all lying in the same plane, said path being horizontal, means for reciprocating said carriers, a group of horizontal work spindles all lying in the same plane, means for driving each spindle at



various working speeds independent of the others, means whereby one group is movable relative to the other to place the individual spindles successively in working relation with tools carried by the individual carriers.

1,389,217. COMPOUND TRACK-RAIL. WILLIAM H. PRIDE, Springfield, Ill. Filed June 2, 1921. Serial No. 474,455. 1 Claim. (Cl. 238—143.)



In a track-rail, the combination of a body comprising a base and a laterally extended longitudinal member; an attaching plate engaging the laterally extended member of the body; a tread-member having a downwardly extended part, an internal longitudinal channel and an inwardly turned longitudinal flange; an attaching plate having a shoulder supporting the downwardly extended parts of the tread member; and connecting devices connecting the attaching plates, the tread member and the body as set forth.

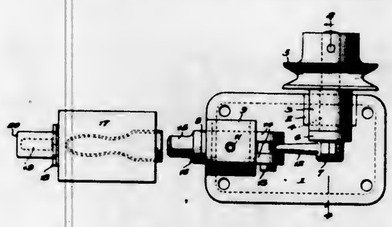
1,389,218. COMBINED COAT AND HAT HANGER. JOSEPH J. PRIMEAU, Worcester, Mass. Filed Feb. 2, 1921. Serial No. 441,986. 8 Claims. (Cl. 45—18.)



1. A device as described consisting of a sheet metal strap being slit at once end to provide oppositely extending arms, hook spurs formed terminally upon said arms and a pair of coat hanger arms pivoted to the lower portion of said hanger and adapted to be folded up and sprung into said hook spurs.

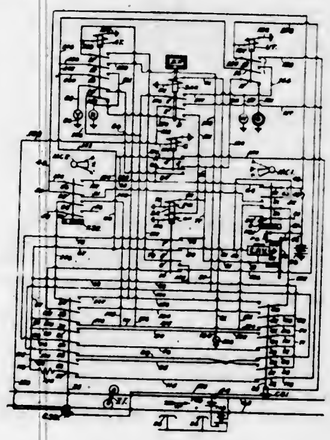
1,389,219. MACHINE FOR FORMING NIPPLES. PAUL A. RAICHE, Providence, R. I., assignor to Davol Rubber Company, Providence, R. I. Filed Feb. 21, 1921. Serial No. 446,809. 7 Claims. (Cl. 18—2.)

1. In a nipple machine, a base, a pair of standards thereon, a drive shaft journaled on one standard and provided with a crank part, a plunger slidable in a bearing on the other standard, a pitman connection be-



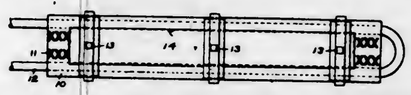
tween the rear end of the plunger and the crank part, and a former mounted on the forward end of the plunger for acting on the open end of a gum nipple.

1,389,220. AUTOMATIC TRAIN-CONTROL SYSTEM OR THE LIKE. OSCAR A. ROSS, Brooklyn, N. Y. Filed Jan. 9, 1917. Serial No. 141,404. 32 Claims. (Cl. 246—49.)



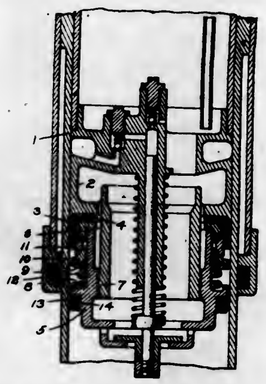
4. In a system of the kind described, a vehicle, a roadway therefor, a normally energized electro-pneumatic valve for automatically stopping said vehicle, a relay controlling said valve, a manually operated circuit controlling device, a circuit for energizing said relay dependent for closure on the deënergization of said valve and manual operation of said circuit controlling device.

1,389,221. PROCESS OF MANUFACTURING VEHICLE-TIRES. AMOS J. ROUSSEY, Fort Wayne, Ind. Filed June 3, 1921. Serial No. 474,845. 3 Claims. (Cl. 18—59.)



1. The process of forming tire treads consisting in pressing the tread in a raw state upon a slightly heated flat mold; then applying the tread to a tire body or raw carcass and securing the same thereon and then subjecting the said body and tread to a vulcanizing heat.

1,389,222. CUP-WASHER EXPANDER. JULIUS G. SABO, New Haven, Conn., assignor to Westinghouse Air Spring Company, a Corporation of Pennsylvania. Filed Nov. 5, 1920. Serial No. 422,103. 5 Claims. (Cl. 74—109.)



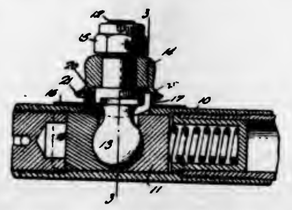
1. In an expander for a cup washer, a split ring adapted to be expanded transversely of the axis of the washer, a member adapted to be moved parallel with said axis and provided with a cam surface adapted to expand said ring, and a yielding element tending to move said member as mentioned.

1,389,223. PRINTER'S GALLEY. FREDERICK L. SCHLEY, Brooklyn, N. Y. Filed Jan. 16, 1920. Serial No. 351,797. 3 Claims. (Cl. 276—40.)



2. A printer's galley comprising a base plate, end and side walls extending therefrom, said walls at the base plate providing an internal groove, said walls provided with a second groove at an elevation above the base plate necessary to receive the binding cord of a form of type, and means on the exterior of said walls spaced above the base plate for receiving the fingers in lifting and handling the galley.

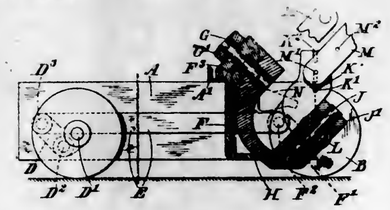
1,389,224. JOINT COVER OR PROTECTOR. CHARLES L. SHEPPY, Buffalo, N. Y. Filed July 22, 1920. Serial No. 398,141. 4 Claims. (Cl. 287—90.)



1. The combination, with a casing member having a lateral opening therein, a second member extending into said opening and adapted to move relatively to said first

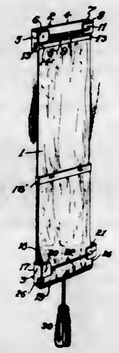
named member, and a head on said second member externally of said casing, of a sleeve member on said casing member and having a projecting collar spaced from and surrounding a portion of said second named member and making a close joint with the inner side of said head.

1,389,225. LIFTING-TRUCK. HAROLD EDWIN SPENCER, Gravesend, England, assignor to Hesco Limited, London, England. Filed Apr. 12, 1920. Serial No. 373,355. 12 Claims. (Cl. 254—10.)



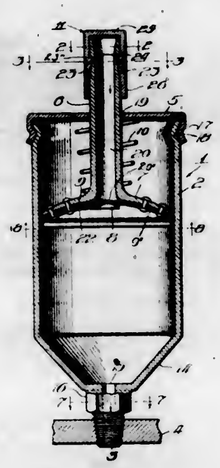
1. A lifting-truck comprising two truck parts, lifting mechanism for moving one part relatively to the other to raise and lower the truck, a steered wheel axle mounted to turn about a vertical axis to steer the truck in a horizontal plane, and a coupling between the lifting mechanism and the steered wheel axle which moves with the lifting mechanism in the lifting operation, is oscillatable relatively thereto, and is constituted by two elements which have three axes of oscillation transverse of one another, the two elements being firstly a pivot in the lifting mechanism and having its axis of oscillation therein about which it can oscillate in relation to that mechanism, and secondly a member which is (*a*) connected to said pivot, and can oscillate in relation thereto about a second axis *i. e.* the axis of such connection, said axis being arranged transversely to the pivot axis, and is (*b*) jointed to the truck wheels by a joint providing the third axis of oscillation *i. e.* an axis which is perpendicular to the second axis aforesaid.

1,389,226. GARMENT-SUPPORTER. MARY STARMER, Newport News, Va. Filed July 16, 1920. Serial No. 396,645. 4 Claims. (Cl. 24—76.)



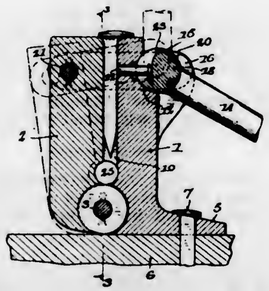
4. The combination in a garment supporting device with a slotted plate member having spaced rear flanges one of which is perforated, of a fastener comprising a pin member passed through said perforated flange, a pin hook inclosed within the other flange, and bars on said fastener, and ears on the front plate embracing said bars, a base bar, and a frictional roller on said base bar adapted to engage the loop of a web passed through said slotted plate.

1,389,227. LUBRICATOR. RALPH B. STERNBERG and WILLIAM W. WEBB, Chicago, Ill. Filed July 26, 1919. Serial No. 313,585. 4 Claims. (Cl. 184—45.)



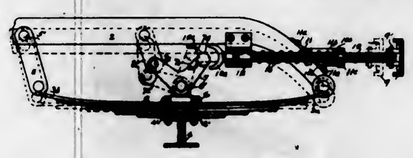
2. A grease cup, comprising a cylindrical casing provided with inlet means at one end and discharge means at the opposite end, a piston operatively disposed in said casing, resilient means to urge said piston continuously toward the discharge means, said inlet means being connected to said piston, a valve being provided for inward opening on the inner side of the movable member in operative relation to the inlet means for admitting grease and preventing its discharge through the inlet means, said valve having a laterally extending leaf spring support secured remotely from the valve body proper to said piston and urging said valve toward its port.

1,389,228. SPIKE-STRAIGHTENER. ALEXANDER W. TABERT, West Allis, and JUNIUS E. TISDALE, Milwaukee, Wis.; said Tisdale assignor to said Tabert. Filed May 14, 1920. Serial No. 381,317. 8 Claims. (Cl. 153—44.)



1. In a spike straightener the combination of relatively fixed and movable jaws forming when closed a longitudinal matrix of the shape in cross section of spikes to be straightened and hinged together adjacent one end of the matrix, a lever pivotally connected with the fixed jaw and provided with pintles eccentric to its pivot axis, and links pivoted to the movable jaw and connecting it with the pintles of the lever on opposite sides of the fixed jaw.

1,389,229. BUFFER FOR VEHICLES. WATSON T. THOMPSON, Pelham Manor, N. Y. Filed Apr. 13, 1921. Serial No. 460,921. 8 Claims. (Cl. 293—55.)



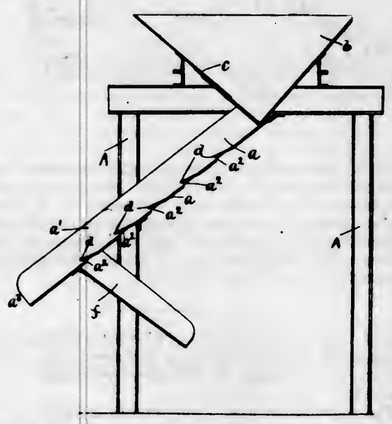
2. An automobile buffer comprising in combination a buffer-bar, similar reciprocating rods pivoted at one end to said bar and operatively supported by the side members of the automobile frame, bell-cranks pivotally supported by the main springs of the automobile in line with the said rods adapted to be rocked by said rods whenever said buffer-bar contacts violently with an obstruction, means for yieldingly connecting said bell-cranks with the side members, and resilient means for normally holding said rods out of an engagement with the bell-cranks.

1,389,230. THERMIC TELEPHONE. ROBERT ARNOUT BARON VAN LYNDEN, Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 12, 1917. Serial No. 196,254. 12 Claims. (Cl. 179—101.)



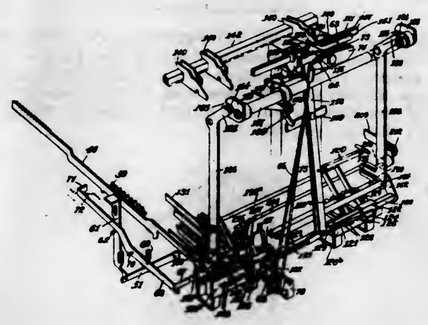
12. In thermic telephones, a wire coil, and conducting contact pieces insulated from one another and engaging the several turns of said coil on its outer surface.

1,389,231. MECHANISM FOR SCREENING OR SIFTING GRANULATED SUBSTANCES. ALEXANDER WALKER, Wallsend-upon-Tyne, England, assignor of one-half to Drakes Limited, Ovenden, Halifax, England. Filed Mar. 30, 1915. Serial No. 18,174. Renewed Jan. 31, 1921. Serial No. 441,502. 4 Claims. (Cl. 83—56.)



1. Mechanism for cleaning and sifting granulated substances comprising a screen formed with alternating bottom portions and openings, each opening extending transversely of the screen, said bottom portions being inclined and lying in the same plane, a plurality of screening fingers on one edge of each bottom portion, said fingers being upwardly inclined relatively to the bottom portion and projecting in the direction of travel of the said substances with their free ends overhanging the adjacent bottom portion beyond the opposing edge thereof, each bottom portion extending for a considerable distance from the finger overlapped edge thereof to its opposite edge, for providing extended flooring sections.

1,389,232. COMBINED TYPEWRITING AND COMPUTING MACHINE. LESTER A. WERNERY, Brooklyn, N. Y., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed Jan. 28, 1919. Serial No. 273,609. 71 Claims. (Cl. 235—60.)



8. In a computing machine, the combination with a traveling carriage and a series of movable bars, of a cam member, carriage-actuated means for moving said cam member in a direction reverse to that of the carriage movement, and thereby effecting successive engagement of said movable bars by said cam member, and means for preventing such engagement.

12. In a computing machine, the combination with a register, of operating means therefor including numeral keys, a plurality of driving bars, a general operator having connections for motor operation, and a motor-trip device including a latch, a register-shutter, a numeral-key guard, and means rendered effective by said latch for moving said shutter and said guard to their effective positions.

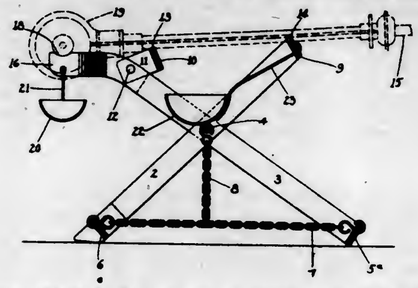
19. In a combined typewriting and computing machine, the combination with tabulating mechanism, subtraction-setting mechanism, motor-trip mechanism, and denomination-selecting mechanism, of a carriage, a series of stops for coöperating with said mechanisms, and a bar, on which said stops are secured, releasably secured to said carriage.

55. In a computing machine, the combination with a series of denominational members, of a selector-dog, a guide on which said dog is slidably mounted, means to effect movement of said dog along said guide for engagement *seriatim* with said denominational members, and means to position said guide to render said dog ineffective with respect to said denominational members.

1,389,233. DIFFERENTIAL RACK. CHARLES JOHAN WEST, Harlem, Mont., assignor to Reed Ekegren & Co., Harlem, Mont., a Corporation of Montana. Filed June 19, 1920. Serial No. 390,215. 4 Claims. (Cl. 29—89.)

1. A differential gear-rack comprising two pairs of legs having their middle portions pivoted one upon the other,

cross bars connecting the legs of the same pair, the legs of one pair having seats for the axle and the legs of the other



pair having a seat for the transmission shaft at right angles to said axle.

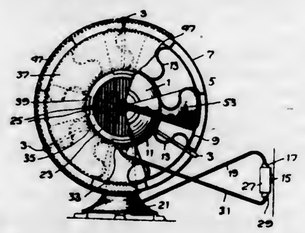
1,389,234. COMBINED TYPEWRITING AND COMPUTING MACHINE. HORATIO WHITING, New York, N. Y., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed May 6, 1914. Serial No. 836,693. 21 Claims. (Cl. 235—59.)



17. In an algebraic register mechanism, the combination of units, tens and higher order sets, driving mechanism for the sets, carry-over mechanism between the order sets, characteristic indicating mechanism controlled by the carry-over mechanism, and means for causing actuation of the units order set simultaneously with the operation of the characteristic indicating mechanism to cause the resultant indicated to be true and final.

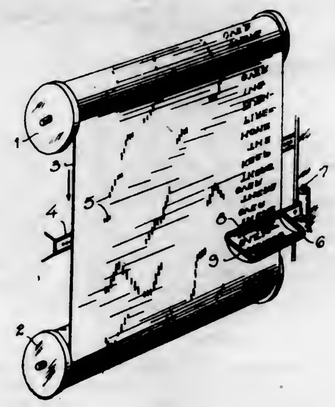
20. The combination with a series of dial wheels, of an endless chain of gears capable of acting one from the other in a continuous cycle, and a boosting device extraneous to said gears for furnishing the power for the endless cycle action.

1,389,235. ELECTRIC DEVICE. JOHN D. ZIMLEY, Summit, N. J., assignor, by mesne assignments, to Universal Interests, Inc., New York, N. Y., a Corporation of Delaware. Filed Dec. 20, 1918. Serial No. 267,695. 9 Claims. (Cl. 219—39.)



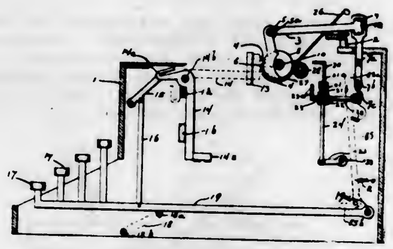
1. An electric device combining an electric fan, braces thereon, a guard supported by the braces and provided with a front inner ring, an electric heater, and means for mounting said heater on said front inner ring.

1,389,236. MUSICAL INSTRUMENT AND RECORD THEREFOR. ROBERT S. BLAIR, South Orange, N. J. Filed July 2, 1918. Serial No. 243,006. 8 Claims. (Cl. 84—115.)



1. A record strip for musical instruments combining note sounding means and the words of the song corresponding to the notes to be sounded, said words being arranged along the strip with the words each inverted.

1,389,237. TYPEWRITER. ALEXANDER BLOCK, New York, N. Y. Filed Nov. 5, 1919. Serial No. 335,857. 51 Claims. (Cl. 197—25.)

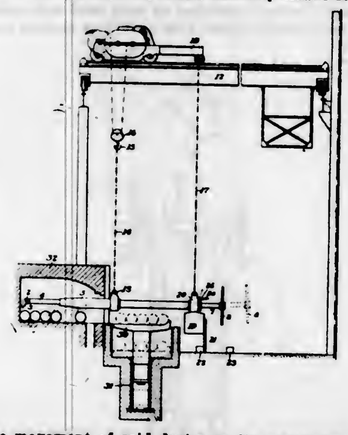


1. In a typewriter, a carriage, an impression bar adapted for movement on said carriage, means for moving said impression bar in a direction to perform the printing operation, manually operable mechanism for controlling the operation of the impression bar, and means for the returning of the impression bar to normal rest position subsequently to the printing operations.

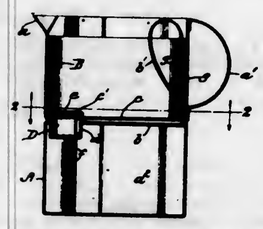
1,389,238. CHARGING APPARATUS FOR ANNEALING-FURNACES. EDGAR E. BROSIUS, Pittsburgh, Pa. Filed Feb. 2, 1920. Serial No. 355,890. 4 Claims. (Cl. 214—23.)

1. The combination with a pipe-annealing furnace having a charging opening and a hearth extending from said opening and forming a roll-way for the pipes, of a combined charging, manipulating and discharging device comprising a rake movable through said opening and over

said roll-way, a movable overhead support from which the said device is flexibly suspended, and stop means for limiting the movement of said device on its suspension in different positions of the overhead support, substantially as described.

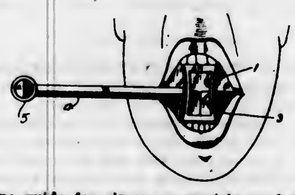


1,389,239. COFFEE-PERCOLATOR. BENJAMIN H. CALKIN and FRANCES L. CALKIN, Detroit, Mich.; said Benjamin H. Calkin assignor to said Frances L. Calkin. Filed Mar. 30, 1915. Serial No. 18,014. 2 Claims. (Cl. 53—3.)



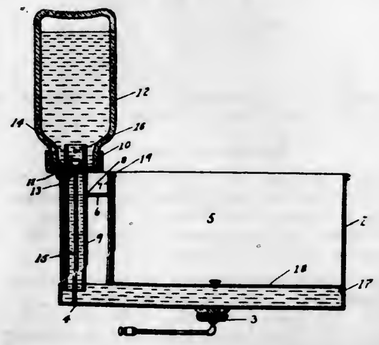
1. A percolator comprising a vessel provided intermediate its ends with a shoulder, a second vessel fitted removably within the first vessel and in contact with the shoulder thereof, the bottom portion of said vessel having an opening, and a container for the charge of material, said container having a foraminous top and a foraminous bottom and said container being positioned in register with said opening in the second vessel so as to constitute the liquid inlet to and the liquid outlet from the chamber of the first vessel, whereby the liquid is adapted to flow and reflow through the container and the charge of material in passing into and out the chamber of said first vessel.

1,389,240. TONE-GUIDE FOR SINGERS. MARY AUGUSTA LEE CLARK, Boston, Mass. Filed Aug. 2, 1920. Serial No. 400,888. 3 Claims. (Cl. 84—466.)



1. A tone guide for singers comprising a head having one dimension adapted for the maximum separation of the teeth of a singer, and another dimension adapted for the medium separation of the teeth, and a stem projecting therefrom having a diameter adapted for the minimum separation of the teeth, said maximum separation being best adapted for singing the vowel A, the medium separation being adapted for the vowel O, and the minimum separation being adapted for the vowel E.

1,389,241. COOKING UTENSIL. CLAUD J. CLEFTON, Owatonna, Minn., assignor, by mesne assignments, of one-half to Guy J. Clefton, Owatonna, Minn. Filed July 25, 1919. Serial No. 313,349. 3 Claims. (Cl. 53—2.)



1. The combination, with a kitchen utensil having a lateral extension and adapted to contain a supply of water, said extension having a horizontal wall therein provided with an opening, a tube fitting within said opening and open at the top and bottom, a valve mounted in said tube and adapted to be opened when the tube is inserted into the utensil, a cap mounted on the upper portion of said tube and a water bottle having an exteriorly threaded neck for fitting into said cap.

1,389,242. THERMIC TELEPHONE-TRANSMITTER. PIETER DE LANGE and ROBERT ARNOUT BARON VAN LYNDEN, Utrecht, Netherlands, assignors, by mesne assignments, to American Thermophone Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 29, 1916, Serial No. 81,235. Renewed June 6, 1921. Serial No. 475,554. 9 Claims. (Cl. 179—101.)

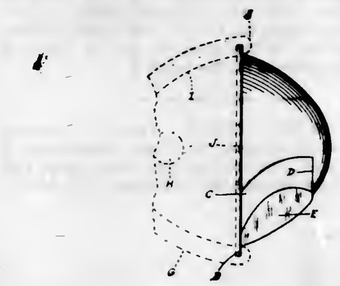


9. A thermic telephone transmitter comprising a casing permeable to sound waves, thermic conductors located in said casing and exposed and responsive to said sound waves for altering the current flow therein, and means for connecting said conductors with an electric line circuit.

1,389,243. HEADLIGHT ATTACHMENT. ANDRÉ F. DE VIGAN, Detroit, Mich. Filed Oct. 18, 1920. Serial No. 417,629. 9 Claims. (Cl. 240—48.4.)

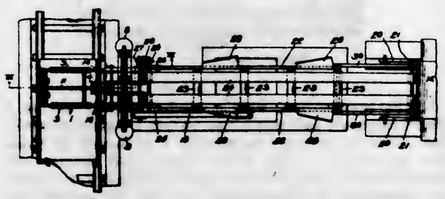
1. In a device of the character described, the combination with a head light, of an anti-glare attachment therefor comprising a substantially imperforate opaque member secured to the front of the headlight, exteriorly thereof,

cutting off radiation from the upper portion of the head light and having an apertured lower portion and having



a shield in its central vertical plane within said aperture for intercepting laterally inclined rays.

1,389,244. MEANS FOR STACKING SHEET MATERIAL. JOHN W. FREE, Woodlawn, Pa., assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed July 19, 1920. Serial No. 397,407. 7 Claims. (Cl. 271—68.)



2. Means for arresting a succession of horizontally advancing sheets and for superposing them in a vertical pile, said means consisting of a frame in which are carried opposite guide plates, and transverse to said guide plates, at one end a yielding stop at the other an oscillating pusher with inclined upper surface, the said members defining a guiding space into which the plates descend by gravity, substantially as described.

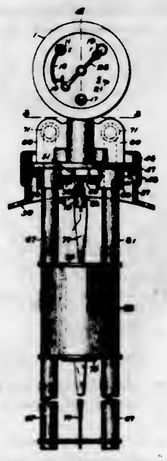
1,389,245. MEANS FOR TRANSPORTING OIL BY WATER. MORITZ GAERTNER, New York, N. Y. Filed Mar. 1, 1920. Serial No. 362,386. 6 Claims. (Cl. 114—235.)



1. As a means for transporting oil by water, a series of tanks, means for coupling the tanks end to end, and means for tilting the tanks downward at the stern.

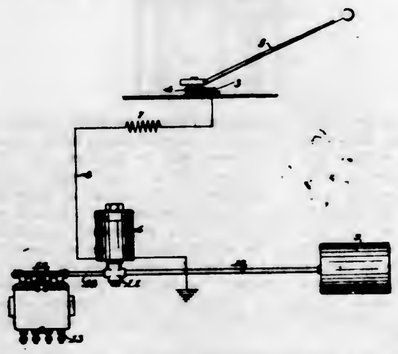
1,389,246. GAGE. GEORGE P. GREGORY and HUGH MACKELVIE, Boston, Mass., assignors to Boston Auto Gage Company, Boston, Mass., a Corporation of Massachusetts. Filed Apr. 16, 1918. Serial No. 228,829. 10 Claims. (Cl. 73—82.)

1. A gage for measuring the depth of liquids, comprising, in combination, a casing having a hollow neck projecting downward therefrom, a base for said neck, a collar for connection with a tank, means for securing said neck base to said collar, a post separate from but connected to said base and projecting up through said neck into said casing, a dial for said casing, an index movable over said dial, a float, means controlled by said float and including a shaft projecting through said post, and gearing carried



by the latter for imparting movement from said shaft to said index, and means detachably connecting said post to the base of said neck, the latter being sufficiently large to allow said post and gearing to pass therethrough.

1,389,247. ELECTRIC OPERATING MEANS FOR FLANGE-OILERS. CHARLES F. HOOFER, Seattle, Wash. Filed Nov. 22, 1919. Serial No. 340,007. 12 Claims. (Cl. 184—3.)

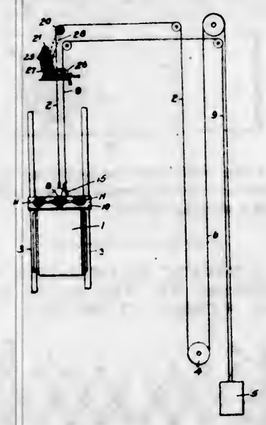


1. A flange oiling device comprising means carried by a car for placing oil upon the flange, electrical means for controlling the action of said oiling mechanism, and a switch mechanism actuated to close the electrical circuit by the side swing of the trolley.

1,389,248. GOVERNOR FOR ELEVATORS. JOHN HOFFER, Marianna, Pa. Filed Feb. 11, 1920. Serial No. 357,799. 2 Claims. (Cl. 187—90.)

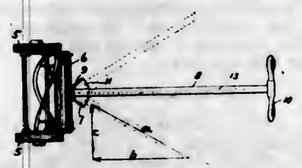
1. In an elevator installation the combination, with a car runway, a car movable in said runway, a sheave, a cable secured to said car and running upon said sheave, and means for shifting said cable to raise and lower said car in its runway, of a centrifugal governor rotated by said sheave, means borne by said car for locking the car

immovably in its runway, a safety cable connected to said locking means, and a clamp adapted to lock immovably



upon said safety cable, said clamp being normally inactive and rendered active by operation of said centrifugal governor, substantially as described.

1,389,249. LAWN-MOWER. ROBERT R. KITCHEL, Ridley Park, Pa. Filed Sept. 24, 1920. Serial No. 412,521. 7 Claims. (Cl. 56—253.)



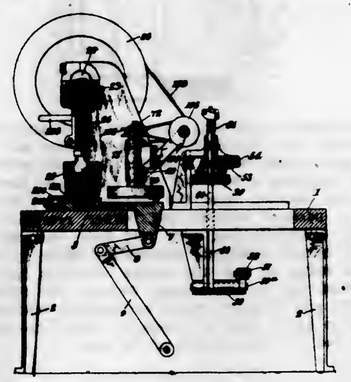
1. In a lawn-mower, a cutting member in combination with a handle, a pivot in a plane normal to the axis of the cutting member, said handles mounted on said pivot to be adjustable sidewise, and means for fixing it in adjusted angular relation to said axis whereby the operator does not follow in the wake of his machine, for use on terraces.

1,389,250. MANUFACTURE OF CELLULOSE ESTERS. JOSEPH KOETSCHET and MAURICE BRUDET, Lyon, France, assignors to Societe Chimique Des Usines Du Rhone (Anciennement Gilliard P. Monnet Et Cartier), Paris, France. Filed Jan. 12, 1921. Serial No. 436,795. 4 Claims. (Cl. 23—24.)

1. In the process of the manufacture of cellulose acetate in which the cellulose is converted into a fluid mass by subjecting it to a preliminary treatment with glucial acetic acid containing 1 to 20 per cent. of acetic anhydrid and sulfuric acid as a condensing agent, maintaining the temperature above 0° C. and below 30° C. during the preliminary process, whereby the product of the acetylation obtained is insoluble in chloroform.

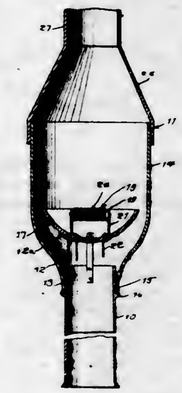
1,389,251. PLATE-PRINTING PRESS. MANUEL LAZARUS, New York, N. Y., and WILLIAM B. DAVIES, Bridgeport, Conn., assignors of one-fourth to Gustave Mendelsohn, Brooklyn, N. Y., and one-fourth to Meyer Trace, Bridgeport, Conn. Filed Jan. 14, 1921. Serial No. 437,187. 17 Claims. (Cl. 101—163.)

1. In a plate printing press, the combination with a horizontally movable support for an engraved plate, of a vertically movable impression counter and means for moving it into and out of operative relation with said support, a vertically movable inking counter provided with reduced inking surfaces corresponding with the positions of the engraved portions of the plate, for inking the engraved portions without inking the entire surface of the plate, a wiping and polishing device located adjacent to the path of the movable support, means for moving the



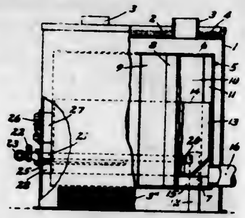
inking counter into and out of operative relation with said support, means for moving the wiping and polishing device into and out of operative relation with said support, means for imparting to said wiping and polishing device relative motion with respect to said support while in operative relation therewith, and means for moving said support into operative relation with said inking counter, the wiping and polishing device and said impression counter.

1,389,252. VENTILATOR. ARTHUR W. LUCAS, Fremont, Nebr. Filed Mar. 26, 1921. Serial No. 455,875. 1 Claim. (Cl. 98—25.)



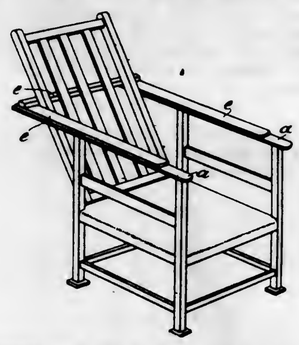
In a ventilator, intake and exhaust conduits, a bell slip joint connecting said conduits, supports secured to the intake conduit and extending into the slip joint, an imperforate concavo-convex radiator plate mounted upon the said supports and disposed within said slip joint, the concave face of said radiator plate being directed toward the exhaust conduit, and a heating element supported by the radiator plate and lying within the concavity thereof.

1,389,253. GAS-FURNACE. KARL G. LUNDIN, Los Angeles, Calif. Filed Aug. 17, 1920. Serial No. 404,197. 2 Claims. (Cl. 126—116.)



1. A furnace comprising a closed casing forming a radiator surface and including a central chamber and spaced flues at the sides thereof, a burner receptacle within said casing including a base and side walls, said base being in spaced relation from the bottom of said casing to form a passage beneath the burner receptacle, said passage communicating with said flues, the side walls of said burner receptacle terminating short of the top of said casing so that the burner receptacle is open to said flues and to the passage beneath the burner receptacle, and a closed casing surrounding said radiator casing so as to form air passages around the radiator casing and between the flues of the same.

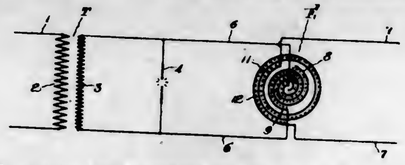
1,389,254. ARMCHAIR. MICHAEL MCCARTHY, London, England, assignor to himself and William Moriarty, London, England. Filed Jan. 6, 1921. Serial No. 435,366. 1 Claim. (Cl. 155—163.)



The combination of an arm-chair having slots extending through the arms and running longitudinally thereof, a series of pins spaced apart and crossing the slots, plates secured to the tops of the arms and having an elongated space between their inner edges, a back hinged to the chair body and a frame for holding the back in adjusted positions comprising horizontal side members resting on the arms but movable vertically to a limited extent and a rear member supporting the chair back, hooks on the side members extending through the slots and between the pins and adapted to engage the pins and headed bolts extending through the spaces between the plates and into the slots which limit the vertical movement of the side members.

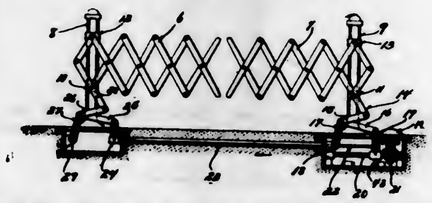
1,389,255. HIGH-FREQUENCY ELECTRICAL OSCILLATION APPARATUS. LESLIE R. MCDONALD, Montreal, Quebec, Canada, assignor to William J. O'Leary, Montreal, Quebec, Canada. Filed May 16, 1917. Serial No. 168,916. 6 Claims. (Cl. 250—36.)

1. Electrical apparatus comprising a high frequency oscillation circuit, and a working circuit, the oscillation circuit having current varying means therein and having bridged thereacross means comprising large amounts of



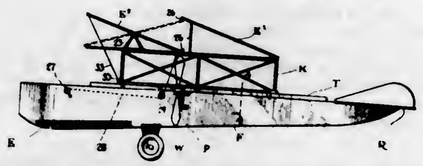
both capacity and inductance for supplying the necessary capacity to the oscillation circuit and for inducing oscillations into the working circuit.

1,389,256. AUTOMATIC RAILWAY-GATE. JAMES R. MCGEE, Milwaukee, Wis. Filed Jan. 24, 1921. Serial No. 439,554. 4 Claims. (Cl. 246—127.)



1. In combination with a gate comprising a pair of lazy tongs, a toggle having one link operatively connected to one arm of the lazy tongs, the other link being pivotally connected to a fixed point, a reciprocable arm having a link connection with the toggle and means for reciprocating said arm to operate said toggle to advance and retract said lazy tongs.

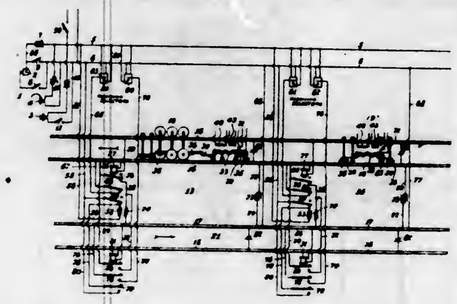
1,389,257. AEROPLANE. THOMAS ANTHONY MACDONALD, Paterson, N. J. Filed May 26, 1920. Serial No. 384,286. 16 Claims. (Cl. 244—14.)



1. An aeroplane comprising, a fuselage, a plane fixed to the fuselage, and a pair of planes movable longitudinally along the fuselage and capable of occupying a lifting position and another position in which they coact to form a parachute.

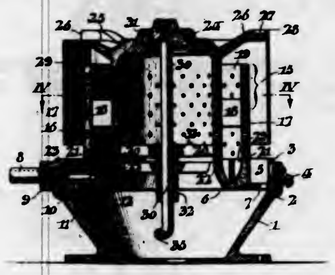
1,389,258. ELECTRICAL SYSTEM OF TRAIN COMMUNICATION. WILLIAM W. MACFARLANE, Philadelphia, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y., a Corporation of Delaware. Filed Nov. 22, 1917. Serial No. 203,378. 31 Claims. (Cl. 246—7.)

11. A system of communication including: a double traffic track, a car, and an induction coil on the car consisting of a high and a low tension winding, an induction coil along the line of way consisting of a high and a low tension winding, said low tension winding of the wayside coil bridging adjacent rails of the double track at one point, and a conductor bridging said rails at another point so that said low tension winding, the two adjacent rails of the double track and the conductor constitute a circuit with respect to which the car including the low tension coil, when occupying the track, forms a parallel path, a local circuit on the car including the high tension winding of the car-carried



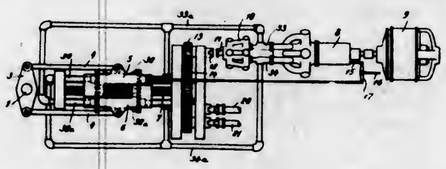
induction coil, line wires along the line of way, and branch conductors connecting the line wires and the high tension winding of the wayside induction coil.

1,389,259. VAPOR-BURNER. JOHN F. MACKAY, Lancaster, Pa. Filed Oct. 13, 1919. Serial No. 330,362. 4 Claims. (Cl. 158—88.)



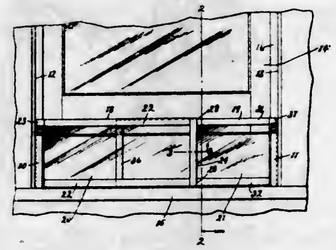
1. In a burner of the character described, the combination of an annular fuel trough; a flue structure superimposed upon said trough, and comprising two integrally united, spaced, concentric cylinders, the interval between the latter forming an annular open top flue communicating with said trough; and a flaring peripheral extension projecting from the inner of said cylinders, and over-hanging the top of the flue, said extension being adapted to deflect the heated combustion gases laterally outward.

1,389,260. STEERING-GEAR. CHARLES M. MANLY, Buffalo, N. Y. Filed Aug. 23, 1917. Serial No. 187,896. 14 Claims. (Cl. 60—53.)



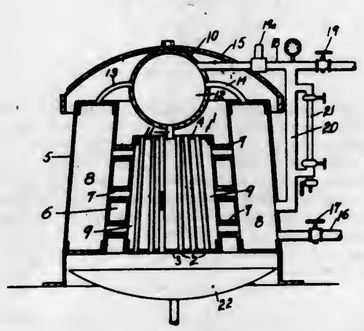
1. In a steering gear, the combination of a reciprocating rudder-operating part, a reciprocating power-driven member connected thereto for operating said part throughout its amplitude of movement, a screw for also operating said reciprocating part, and power operated means for rotating said screw simultaneously with the application of power to said reciprocating power-driven member.

1,389,261. VENTILATOR. HUGH M. MARSH, Chicago, Ill., assignor to Gaylord M. Nelson, Chicago, Ill. Filed Dec. 20, 1920. Serial No. 431,949. 1 Claim. (Cl. 98—31.)



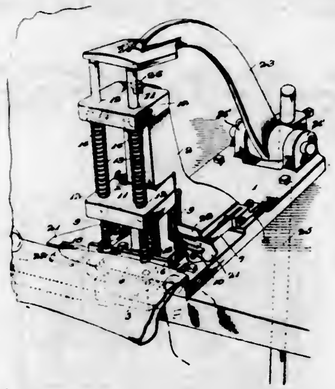
In a ventilator, in combination, a pair of slidingly connected overlapping panels constituting a longitudinally extensible ventilator shield, and a pair of stationary brackets, one at each side of the window, each bracket and the outer end of the panel forming the adjacent part of the ventilator shield being constructed for hooked engagement in any one of a plurality of angularly adjusted positions of the shield whereby the brackets serve to hold the panels against relatively sliding movement in either direction in each of the said angularly adjusted positions of the shield.

1,389,262. STEAM-BOILER. GUSTAVE MILLER, Los Angeles, Calif. Filed June 4, 1919. Serial No. 301,781. 7 Claims. (Cl. 122—481.)



5. A steam boiler, comprising a main boiler, an auxiliary boiler surrounding said main boiler and a superheater mounted above said main boiler, flues connecting the main boiler with the auxiliary boiler and superheater, a cap forming a dome over the main and auxiliary boilers and extending downwardly over the auxiliary boiler and spaced therefrom, a fire box under the main boiler, and fire tubes extending through the main boiler and connecting the fire box with the space under the dome.

1,389,263. PUNCH-PRESS. THOMAS F. MORRIS, Waterford, N. Y. Filed Oct. 29, 1920. Serial No. 420,466. 16 Claims. (Cl. 164—92.)



1. A fabric punch press having plates between which one section of the fabric is arranged with the other sections of such fabric above one of the plates, and a single punch element carrying means to clamp and perforate both fabric sections.

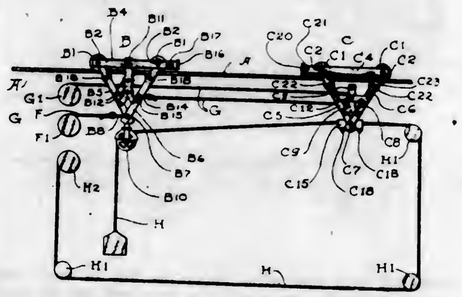
1,389,264. SHADE-FIXTURE. WILLIAM MCCORMICK NEALE, Greensboro, N. C. Filed May 21, 1920. Serial No. 383,176. 4 Claims. (Cl. 156—34.)



2. In shade roller construction, the combination with the roller, of a reel having a tapered socket at one side, said roller having a housing at one end tapering outwardly and fitting within said tapered socket, said housing provided with spaced openings intermediate its axis and periphery, said reel having offset tongues intermediate its axis and periphery for engaging within the openings of the housing for connecting the reel to the roller when rotated in one direction, and disengaging therefrom when rotated in the reverse direction.

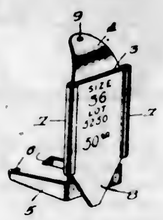
1,389,265. TRAVELING HOIST. RICHARD L. NEUBERT, Knoxville, Tenn. Filed Dec. 20, 1919. Serial No. 346,258. 14 Claims. (Cl. 212—89.)

1. In an apparatus of the nature described, the combination with an elevated track and drums, of a clamp carriage supported on said track, a load carriage supported on said track between the clamp carriage and the drums, the load carriage having means for guiding the load line and having means for guiding the clamp carriage line and the clamp carriage having means for immovably clamping the load line to said carriage and having a guide roller for the clamp carriage line, a clamp carriage line having one end attached to the load carriage and extending thence horizontally to and around said guide roller of the clamp carriage and then horizontally back through the load carriage to the clamp carriage line drum, a load carriage line secured by one end to the load carriage and extending thence to the load carriage line drum, and a load line ex-



tending loosely through the guiding means on the load carriage and through the fastening means on the clamp carriage and thence away from said carriage in the direction opposite the direction of the load carriage to a guide roller, and thence to other guiding means and to the load line drum, substantially as described.

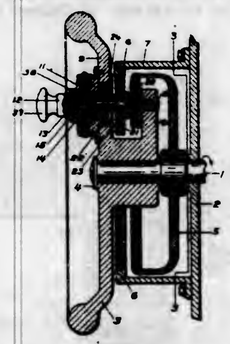
1,389,266. PRICE-TAG HOLDER. ANDRE HUTT NEWTON, Beaumont, Tex. Filed Oct. 7, 1920. Serial No. 415,252. 2 Claims. (Cl. 40—10.)



1. In combination with a garment hanger, of a price tag holder for connection with the hanger, said holder comprising a plate having guides at its opposite side edges for engaging the side edges of the price tag, and having means for attaching it to the hanger, said attaching means comprising a lug at one end of the plate having an opening for receiving the shank of the suspending hook of the hanger, and having at the other end a pair of arms embracing the opposite sides of the hanger, and having spurs for engaging the material of the hanger.

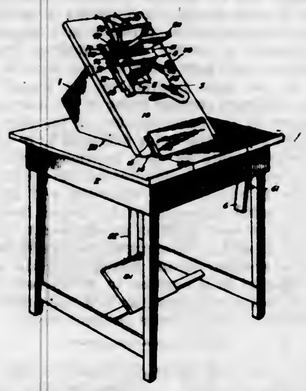
1,389,267. CLUTCH MECHANISM. CHARLES H. NORTON and ALBERT TURNER, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Original application filed Sept. 27, 1917, Serial No. 193,600. Divided and this application filed Feb. 9, 1918. Serial No. 216,167. 7 Claims. (Cl. 192—20.)

1. In a clutch mechanism, a support having a bearing aperture therein, a clutch collar rotatably and slidably mounted in said bearing aperture, a shaft rotatable with said collar, a member on said shaft adapted to be engaged by the clutch collar for rotation therewith and means on



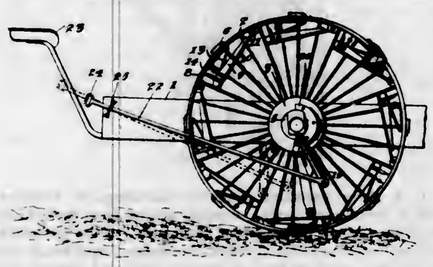
the support for engagement with the clutch collar to prevent rotation thereof.

1,389,268. PHOTOPRINTING-BOX. CLARENCE LE ROY PARKS, Seattle, Wash. Filed June 23, 1919. Serial No. 306,060. 5 Claims. (Cl. 95—73.)



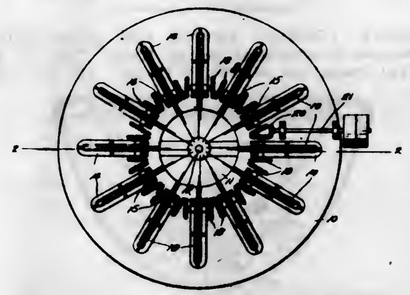
5. A photograph printing machine of the character described comprising a printing box provided with an inclined cover having an opening therein, a translucent plate for said opening, a clamp for holding a film over said plate, a clamp finger for holding a printing paper over said film, a platen movable toward and from said opening, and a type carrying member yieldably mounted in said platen and movable therewith for the purpose set forth.

1,389,269. ATTACHMENT FOR TRACTOR-WHEELS. EMIL LOUIS POLANSKY, Munden, Kans. Filed Mar. 5, 1920. Serial No. 363,417. 3 Claims. (Cl. 301—48.)



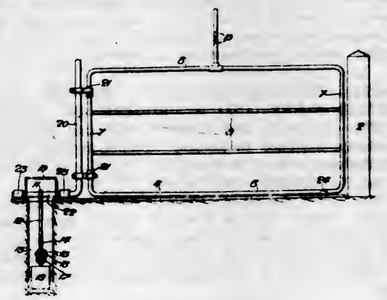
1. A wheel of the character specified, comprising a hub, a rim and spokes connecting the hub and the rim, and having in the rim transverse slots, plates hinged to the inner surface of the rim adjacent to the slots and provided at their free ends with spurs adapted to extend through the slots, springs normally pressing said plates inwardly, means for limiting the inward swinging movement of the plates to a point where the blades are within the periphery of the wheel, and manually operated means for engaging the plates as they pass beneath the hub to extend the spurs, said means comprising an arm consisting of sections connected by a rule joint for permitting them to swing freely rearwardly at their joint and for limiting their forward swinging movement to a point where they are in substantial alinement.

1,389,270. FRUIT-SLICER. FRED C. PRATT, Farmington, Me. Filed Apr. 27, 1921. Serial No. 464,777. 3 Claims. (Cl. 146—11.)



1. In a fruit slicing machine, a vertical guiding rod fitting the cored opening in the fruit, a plurality of cutting knives arranged about said guiding rod and having the peripheries thereof extending adjacent the guiding rod, and means for rotating said knives to cause the peripheries thereof adjacent the guiding rod to travel toward the discharge end of the machine.

1,389,271. SELF OPENING AND CLOSING GATE FOR MOTOR-VEHICLES. CHARLES J. W. ROBERTSON, Yarram, Victoria, Australia. Filed June 14, 1920. Serial No. 388,960. 9 Claims. (Cl. 39—6.)



1. A gate hinged to swing in a horizontal plane in combination with means whereby the gate may be swung in a vertical plane from an upright to a horizontal position under the influence of pressure exerted by a vehicle passing over the gate and means to automatically return the gate from the horizontal to the upright position on removal of said pressure.

1,389,272. CHUCK AND LIKE WORK-HOLDER. JOSEPH DYSON SCAIFE, Newark-on-Trent, England. Filed Nov. 6, 1919. Serial No. 336,035. 8 Claims. (Cl. 279—46.)

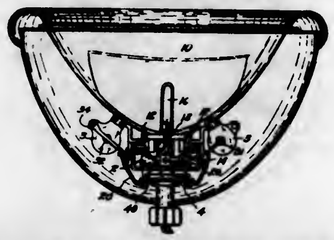
1. A chuck comprising a more or less flexible base thickened at its edge said edge being secured to a rigid

plate, concentric jaws on said disk, binding screws and locating pins in connection with the said jaws and a hand



operated bolt for springing the base and actuating the jaws.

1,389,273. DIMMING DEVICE FOR HEADLIGHTS. WILLIAM A. SCHROEDER, Seattle, Wash. Filed July 14, 1919. Serial No. 310,824. 3 Claims. (Cl. 240—45.)



1. A screening device for headlights comprising two screening plates pivoted at opposite sides of the light, said plates being curved and positioned to conform approximately to the curve of the reflector when they are not in screening position, a cam disk mounted to turn about the axis of the headlight, and having its edges forming convolutions, pivoted levers having fingers engaging opposite sides of said cam disk, means connecting said levers with the screening plates, actuating means for said cam disk including a ratchet mechanism for converting a reciprocating movement into an intermittent rotative movement of the cam disk, locking mechanism for the screening plates and means for imparting an initial releasing movement to the locking mechanism and thereafter imparting an operative movement to the cam disk actuating means, substantially as described.

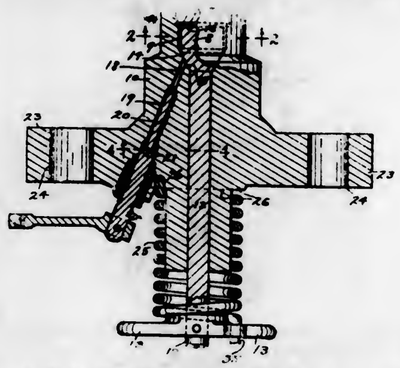
1,389,274. TEXTILE PRODUCT DERIVED FROM ANIMAL FIBER AND A PROCESS OF MAKING SAME. WILHELM HELMUTH SCHWEITZER, Heidelberg, Germany, assignor to Society "Technochemia" Aktiengesellschaft, Glarus, Switzerland. Filed Apr. 28, 1921. Serial No. 465,288. 10 Claims. (Cl. 8—20.)

4. The herein described process for the manufacture of a textile product derived from an animal fiber, consisting in treating an animal fiber successively with an oxidizing agent and an excess of alkali and impregnating the fiber finally with a water-proofing and softening substance.

1,389,275. TEXTILE PRODUCT DERIVED FROM AN ANIMAL FIBER AND A PROCESS OF MAKING SAME. WILHELM HELMUTH SCHWEITZER, Heidelberg, Germany, assignor to Society "Technochemia" Aktiengesellschaft, Glarus, Switzerland. Filed Apr. 28, 1921. Serial No. 465,289. 2 Claims. (Cl. 8—20.)

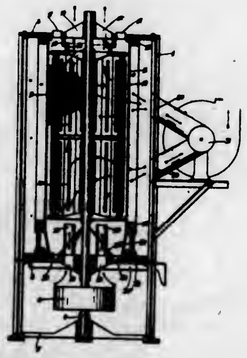
1. The herein described textile product derived from an animal fiber, which results from the treatment of the said animal fiber first with a large excess of an oxidizing agent and afterward with a boiling solution of soap and which shows an increased softness, an increased affinity for dyestuffs and a greater luster.

1,389,276. VALVE MECHANISM. GEORGE A. SCHWER and OTTO E. BORNHAUSER, Sandusky, Ohio. Filed Jan. 5, 1920. Serial No. 349,606. 11 Claims. (Cl. 277—10.)



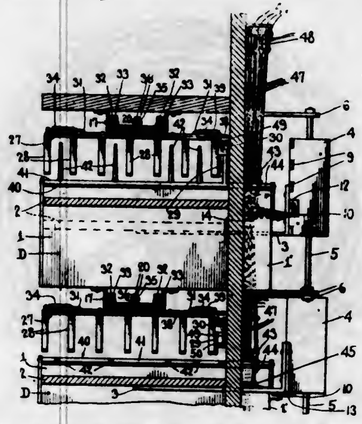
1. In valve-mechanism, the combination, with a valve-casing having an interior chamber and a passage for feeding fluid to said chamber and also a port spaced from said passage, and an endwise shiftable rotatable member contained in said chamber and having a valve arranged to control communication through said passage and a valve arranged to control communication through the aforesaid port, said port being in open relation with said chamber in the open position of the second-mentioned valve, the aforesaid passage being in communication with said chamber in the open position of the first-mentioned valve, one of said valves being arranged to be moved from a closed position into an open position or vice versa by and during movement of the rotatable valve-carrying member endwise in the required direction and the other of said valves being arranged to be moved from a closed position into an open position or vice versa, by and during rotation of said valve-carrying member in the required direction, of resilient means acting to retain said valve-carrying member in a position in which both valves are closed, and means for operating said valve-carrying member against the action of said resilient means.

1,389,277. PROCESS AND APPARATUS FOR POLISHING GRAIN. JOSEPH A. SMITH, De Witt, Ark. Filed Nov. 11, 1919. Serial No. 337,284. 22 Claims. (Cl. 83—29.)



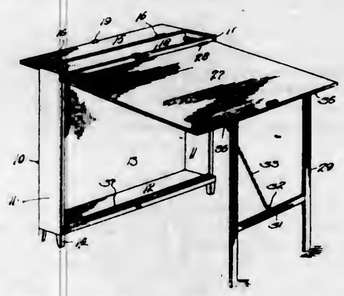
1. A grain polishing machine including, in combination, a foraminous casing, a brush spaced from said casing forming a grain passage-way therewith, means for establishing currents of air through the ends of said brush and across said passage-way, a housing for said casing, and an exhaust port formed in a wall of said housing.

1,389,278. LAUNDRY-DISTRIBUTING MACHINE. JOHN R. SOUSA, Oakland, Calif. Filed Oct. 31, 1919. Serial No. 334,675. 10 Claims. (Cl. 214—11.)



1. A distributing machine comprising a plurality of receiving compartments, means for conveying articles thereto including a carriage, key controlled means for transferring the articles from the carriage to any desired compartment and automatic means for stopping the carriage at the compartment and returning it to its starting point.

1,389,279. FILING-CABINET. CHARLES R. SOUTHWELL, San Antonio, Tex. Filed July 1, 1920. Serial No. 393,266. 1 Claim. (Cl. 45—2.)



In a filing cabinet for blue prints and the like, the combination with side walls, a back and a bottom, of a transversely extending strip connecting the upper ends of said side walls, at the front thereof a cover horizontally hinged to the rear wall, a lock carried by said transversely extending strip and adapted for engaging said cover, a combined front wall and drop table horizontally hinged to said transversely extending strip, locking means carried by the inner side of said combined drop table and front wall and the inner sides of said side walls and accessible only when the cover is in open position, and means to limit the inward movement of said combined front wall and drop table.

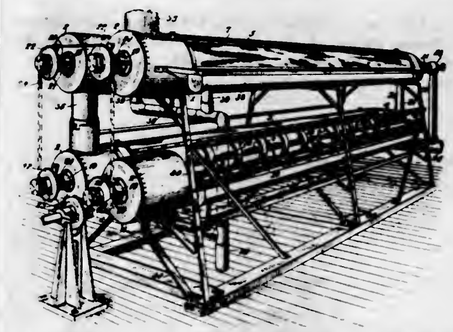
1,389,280. ELECTROMAGNETIC IGNITER. GEORGE H. TILESTON, Chicago, Ill. Filed June 23, 1919. Serial No. 306,214. 44 Claims. (Cl. 123—154.)

1. In an electro-magnetic igniter, in combination, a plug, an insulating core passing vertically through the plug, an electro-magnet mounted upon the plug, a metallic stem of magnetizable material extending through the said insulating core, said stem connecting with, or in one piece being an extension of, the core of the said electro-magnet, an armature mounted within the combustion chamber, a post limiting the movement of the armature, a second magnet normally holding the armature in closed relation with a stationary contact, and an electric current passing



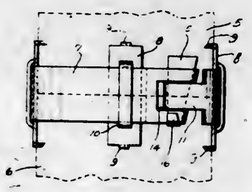
at intervals through the winding of the said electro-magnet in a direction whereby the same sign of polarity will be presented to the armature as that normally presented by the said second or holding magnet, and whereby the armature will be repelled at its free end to open the ignition circuit.

1,389,281. APPARATUS FOR TREATING PULP. OTTO CHARLES WINESTOCK, Perkinsville, Vt. Filed Sept. 11, 1918. Serial No. 253,515. 13 Claims. (Cl. 141—12.)



3. A device of the character described comprising in combination an imperforate trough, screens on each side of said trough, means to agitate pulp within said trough and to spray said pulp with cleansing fluid during the agitation, and means for maintaining the surface of the pulp above the edges of said trough in such manner that a portion of the paper pulp adjacent the surface thereof is supported by the said screens so that the cleansing fluids may escape from the pulp adjacent the surface thereof.

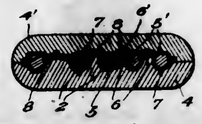
1,389,282. COUPLING DEVICE. HARRY C. YINGLING, Williamsport, Pa. Filed June 7, 1920. Serial No. 387,125. 1 Claim. (Cl. 285—194.)



A fastening device for two abutting members comprising a band having a width to cover the joint between said

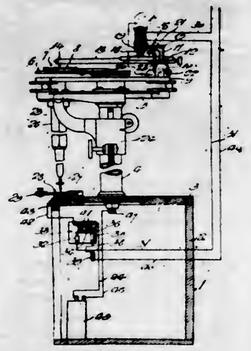
members, means for connecting the ends of the band, and spurred clips carried by the band, said clips comprising plates having loops through which the band passes, and said plates projecting from the opposite edges of the band, the projecting portions of the plates having inturned spurs adapted to be driven into the parts which the band encircles on opposite sides of the joint therebetween.

1,389,283. METHOD OF AND APPARATUS FOR MAKING WEBBED GLOVES. ANTHONY K. ZAWADZKI, Wrightstown, N. J. Filed Oct. 26, 1920. Serial No. 419,614. 5 Claims. (Cl. 18—42.)



1. The method of making webbed rubber gloves, consisting in placing a sheet of uncured rubber on each side of a hand-shaped core and with the parts of the sheets between the fingers and thumb in contacting relation to form permanent continuous webs extending across the space between adjacent fingers, conforming the sheets to the core by inclosing the same in a conformable shell, and subjecting the whole to a vulcanizing heat.

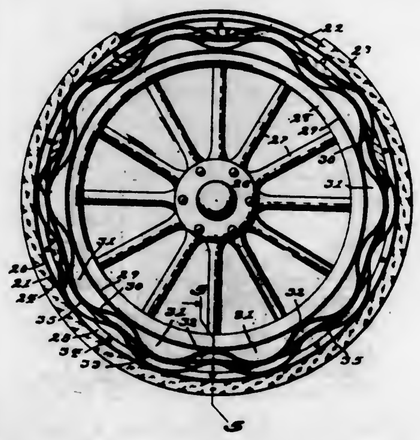
1,389,284. ETCHING-MACHINE. HERBERT CLIFTON ALLEN, Richmond, Va. Filed July 6, 1920. Serial No. 394,822. 10 Claims. (Cl. 33—24.)



1. In a machine of the class described, the combination of a work bed adapted to hold a work plate, a holder adapted to hold a pattern plate, a needle operable upon the work plate and movable in and out of engagement therewith, a stylus operable upon the pattern plate and movable in and out of engagement therewith, mechanism associated with said stylus and said needle for moving said needle over said work plate upon movement of said stylus over said pattern plate, and electrically operated means for moving said needle in and out of engagement with said work plate, the circuit of said means including said stylus and said pattern plate, whereby said circuit is opened and closed upon movement of said stylus in and out of engagement with said pattern plate.

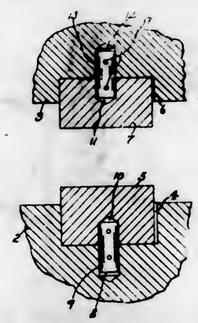
1,389,285. VEHICLE-WHEEL. AUGUST W. ALTHOFF, Oklahoma, Okla. Filed Mar. 29, 1920. Serial No. 369,773. 3 Claims. (Cl. 152—37.)

1. In a vehicle wheel, an outer rim portion, and an inner floating portion within and spaced from said rim portion, the inner periphery of the outer portion and the outer periphery of the inner portion being corrugated, and an



endless flexible tensioning member interposed between the two portions.

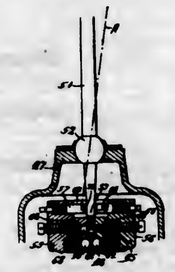
1,389,286. MEANS FOR SECURING DIES IN FORGING APPARATUS. KRISTOFFER A. ANDERSON, Hartford, Conn. Filed May 14, 1920. Serial No. 381,285. 5 Claims. (Cl. 78—44.)



1. Means for securing dies in forging apparatus comprising a base and a hammer both recessed, dies set into the recesses of the base and the hammer, and centering pins associated with the dies, the base and the hammer having counterbores into which the centering pins extend.

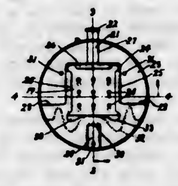
1,389,287. CHANGE-SPEED GEARING. AXEL HJ. ASPROOTH, Rockford, Ill., assignor to Cotta Transmission Company, Rockford, Ill., a Corporation of Illinois. Filed July 2, 1919. Serial No. 308,324. 4 Claims. (Cl. 74—39.)

1. In a shifting device of the character described, the combination of a pair of longitudinally shiftable rods, a stationary dividing plate interposed between the rods, a shifting lever the operated end of which is normally disposed in a recess in said plate, and a yieldable plunger carried by each rod and constantly urged against the adjacent side of said operated end of the lever, the lever being tiltable laterally in either direction whereby to retract the respective plunger and be brought into coöperative rela-



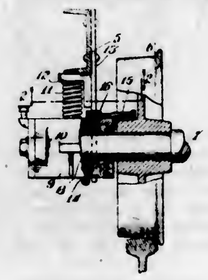
tion with its respective rod for the purpose of shifting said rod longitudinally.

1,389,288. POWDER-BOX. VIRGIL L. BEAUCHAMP, Evanston, Ill. Filed May 5, 1919. Serial No. 294,747. 5 Claims. (Cl. 132—83.)



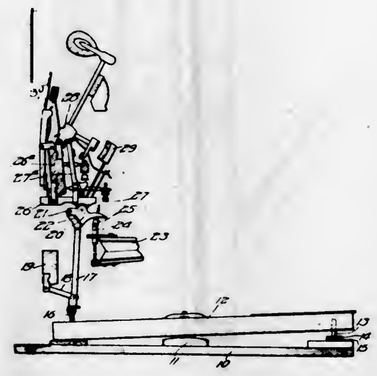
1. A powder box having a powder compartment, a puff compartment, a closure for said puff compartment, a puff secured to said closure, a foraminous partition separating said compartments, a reciprocating foraminous plate lying closely adjacent said partition, a retaining member having a cutout portion adjacent the central portion of said plate, means to guide the reciprocation of said plate and to space said retaining plate from said bottom, and means external of the box to reciprocate said plate.

1,389,289. DUST-GUARD FOR CAR-AXLES. JAMES D. BENBOW, Aurora, Ill., assignor to Western Wheeled Scraper Company, Aurora, Ill., a Corporation of Illinois. Filed Oct. 29, 1920. Serial No. 420,389. 6 Claims. (Cl. 64—22.)



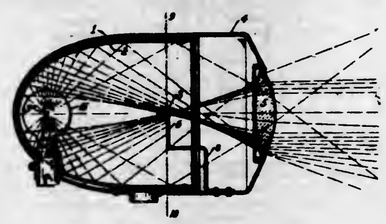
1. The combination with an axle and a wheel thereon, of a dust guard, means on the axle adjacent to the wheel upon which means the dust guard rests, and vertically-movable guiding means at the sides of the axle which guiding means have sliding engagement with said dust guard.

1,389,290. PIANO-ACTION. WILLIAM G. BETZ, Hammond, Ind., assignor to Straube Piano Company, Hammond, Ind., a Corporation of Indiana. Filed Apr. 15, 1918. Serial No. 228,631. 11 Claims. (Cl. 84—34.)



1. A piano action including an abstract having at its upper end a rearwardly and upwardly extending arm provided with a wippen operating shoulder at the upper end of the abstract, a wippen, an action lever intermediately pivoted to the wippen, and abstract and pneumatic connections to opposite ends of the action lever.

1,389,291. HEADLAMP. EVAN P. BONE, Cincinnati, Ohio. Filed Jan. 8, 1920. Serial No. 350,073. 16 Claims. (Cl. 240—41.)



11. In a headlamp of the character indicated, the combination of an electric incandescent source of light, a lens having its rearward focal plane within the headlamp, and a deeply cupped ellipsoidal reflector to direct a preponderance of the light rays toward said lens, said reflector having one focus at said source of light and the other substantially at said rearward focal plane of the lens, and a screen substantially in said focal plane and encroaching upon the area of intense light concentration at one side thereof.

1,389,292. ELASTIC, AUTOMATIC, ADJUSTABLE BLASTING-SHELL. ROBERT LEE BOWMAN, Knoxville, Tenn. Filed Dec. 13, 1920. Serial No. 430,420. 1 Claim. (Cl. 102—6.)

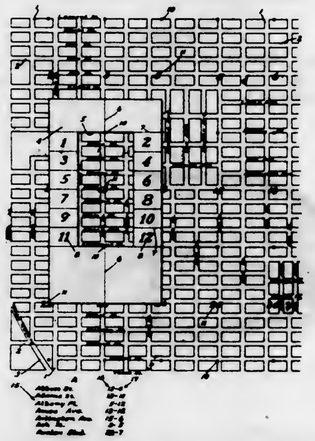
A shell of the character described comprising a tube permanently doubled back upon itself along one of its

longitudinal marginal edges to constitute an expansion fold and having a longitudinal crease extending from



end to end of the tube and constituting a line of fold whereby the capacity of the shell may be varied.

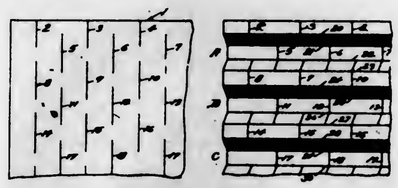
1,389,293. LOCALITY-FINDER FOR MAPS AND THE LIKE. WILLIAM E. BRIDWELL, Los Angeles, Calif. Filed Oct. 11, 1920. Serial No. 415,974. 3 Claims. (Cl. 35—6.)



2. The combination with a map, of a finder adapted to be placed upon the same, said map having points marked thereon adapted to be alined with the finder so that respective divisions aggregating the entire area of the map may be covered by said finder, indicating means upon the map for the respective divisions, said finder having indicating means for subdivisions of the respective divisions.

1,389,294. ARTIFICIAL HONEYCOMB. HARRY B. DEAN, Upland, Calif., assignor of one-half to John D. Howe, Upland, Calif. Filed Aug. 18, 1919. Serial No. 318,388. 8 Claims. (Cl. 6—11.)

1. A honey-comb composed of a sheet, the sheet being slitted, bent on parallel lines crosswise of the slits, bent on the lines of the slits back and forth, and the bent portions folded upon themselves and forming a plurality of tiers of cells.



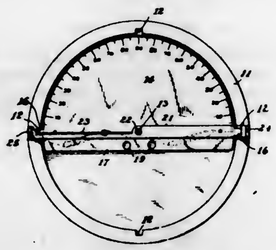
3. A honeycomb composed of a sheet of metal bent to form half cells and folded back and forth upon itself to form complete cells, the complete cells being integrally connected upon alternate sides.

5. A honey-comb composed of a sheet, bent to form half cells and bent back and forth upon itself forming complete cells.

7. A honey comb composed of a sheet of suitable material intermittently slitted in parallel rows, the slits in alternate rows overlapping the contiguous ends of slits of intermediate rows in staggered relation, the spaces between the ends of the slits in the line of their rows being substantially one-third of the length of said slits, said sheet being bent on parallel lines extending transversely of the said slits, and then alternately bent back and forth upon itself along the slits, to form a plurality of tiers of cells.

8. A honeycomb composed of a sheet of thin material having formed therein parallel rows of slits, the same being disposed in staggered relation, said sheet being bent along parallel lines at right angles to said slits, and then bent back and forth along the lines of slits to form complete cells.

1,389,295. CHARTING APPARATUS FOR SHIPS. RUDOLF FESTETICS DE TOLNA, New York, N. Y. Filed Oct. 1, 1919. Serial No. 327,705. 3 Claims. (Cl. 33—67.)

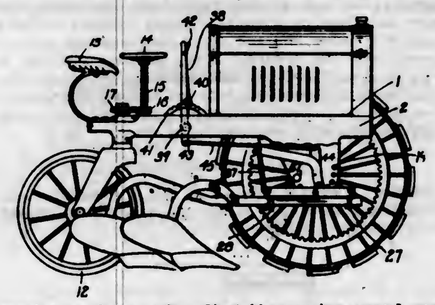


1. In apparatus for the purpose set forth, in combination, a transparent plotting table having a straight edge, and a member having a straight edge connected thereto, said table being movable relatively to said member but only with said straight edges maintained in parallelism, and means for maintaining in parallelism the edges of the plotting table and the member pivotally connected thereto.

1,389,296. AGRICULTURAL-IMPLEMENT FRAME. THOMAS C. DUNCAN, Kansas City, Mo. Filed Nov. 28, 1919. Serial No. 341,251. 6 Claims. (Cl. 97—36.)

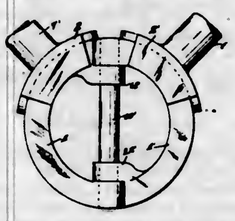
1. In an agricultural machine, a wheeled frame, depending brackets carried by said frame and supporting the wheels thereof, said brackets having an arcuate series of

openings, a substantially rectangular tilting frame, having trunnions at its ends to adjustably engage said



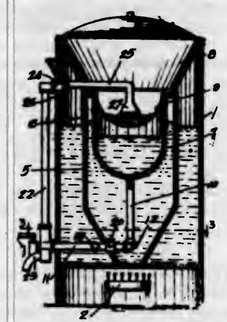
openings, and means for adjustably securing ground working tools to said rectangular frame.

1,389,297. UNIVERSAL JOINT. MAURICE G. DUSSEAU, Los Angeles, Calif., assignor of one-twentieth to D. A. McDaniel, Los Angeles, Calif. Filed Aug. 5, 1920. Serial No. 401,503. 2 Claims. (Cl. 64—91.)



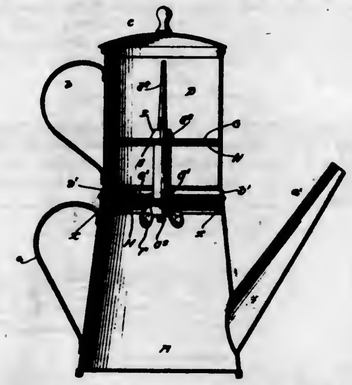
2. A universal joint including interchangeable arcuate members each forming a semi-circle, said memebrs having bearings at one pair of opposite ends thereof and having offset extensions forming bearings at the other pair of opposite ends, a pivot rod journaled in said bearings for diametrically pivoting said members, and interchangeable arcuate members circumferentially slidable upon the pivoted arcuate members.

1,389,298. COFFEE-PERCOLATOR. ROY E. FARMER, Los Angeles, Calif. Filed Mar. 31, 1921. Serial No. 457,335. 6 Claims. (Cl. 53—3.)



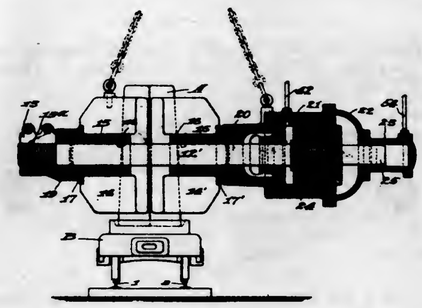
1. A percolator including an inner receptacle, a circulating system through said receptacle, means for pumping fluid through said circulating system, a motor for operating said pumping means, a closure valve in said circulating system, and controlling means for said motor and valve dependently operated.

1,389,299. DRIP-COFFEE POT. EDWIN SAMUEL GARDINER, New Orleans, La. Filed Apr. 27, 1921. Serial No. 465,045. 8 Claims. (Cl. 53—3.)



1. The combination with a coffee pot and a receptacle for coffee, of a coffee holder comprising a support, a plate formed with groups of perforations of different sizes, and a cover plate for covering some of the perforations and exposing others.

1,389,300. MACHINE FOR PERFECTING INGOTS. FERDINAND G. GASCHE, Chicago, Ill. Filed July 17, 1917. Serial No. 181,006. 17 Claims. (Cl. 138—17.)



1. The herein described improvements in machines for perfecting ingots, comprising in combination a plurality of jaws, a tension rod upon which the jaws are mounted, and a piston directly connected to the tension rod.

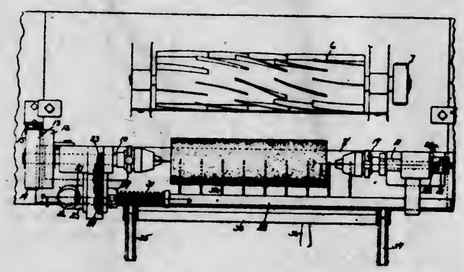
1,389,301. WATER-COOLING CONSTRUCTION FOR WELDING-TORCHES. JAMES FRANK GILBERT and THOMAS NEVILLE, Seward, Alaska. Filed Nov. 9, 1920. Serial No. 422,895. 3 Claims. (Cl. 158—27.4.)



1. A torch of the character described having a surrounding water jacket, a hollow hand shield communicat-

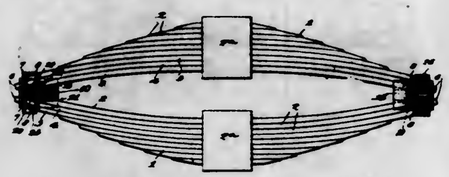
ing with said jacket, a partition in said jacket also dividing the said shield, a water intake and outlet connected to the hollow shield on opposite sides of the division thereof, said intake adapted to be connected to a suitable source of water supply; wherby water may be admitted to the jacket and caused to circulate along one side thereof, and thence along the opposite side and out the outlet.

1,389,302. TRIMMER. ALBERT G. HAGSTROM, East Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a Corporation of Connecticut. Filed Aug. 23, 1919. Serial No. 319,304. 11 Claims. (Cl. 15—40.)



1. A trimmer including trimming knives, a carrier movable toward and from the trimming knives, chucks oppositely mounted on the carrier, chuck rotating means, and means operable by the movement of the carrier to control the rotating movement of the chucks.

1,389,303. SPRING. FRANK F. HOEFFLE, Louisville, Ky. Filed Mar. 10, 1921. Serial No. 451,265. 8 Claims. (Cl. 267—55.)



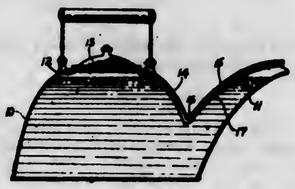
4. In a leaf spring, an end support comprising a member having on its opposite sides recessed stepped faces, each face providing leaf sustaining surfaces and an intermediate abutment, and opposite disposed leaf spring sections engaged into respective opposite sides of said member, and separated thereby, the primary leaves of each spring section having plane butt ends respectively slidingly supported upon said surface with the main or base spring thereof adapted to engage said abutment.

1,389,304. GARMENT-SUPPORTER. ALBERT H. HOLMES, Natick, Mass. Filed Aug. 25, 1920. Serial No. 405,814. 2 Claims. (Cl. 24—81.)



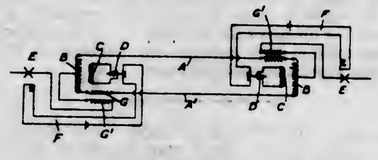
2. A garment supporter composed of a relatively thick oblong body of flexible compressible material, having angular slits cut through portions of the body, and forming inwardly facing gripping surfaces, openings at opposite end portions of the body and flexible integral tongues connected to the body at their inner ends, and having free outer ends forming outwardly facing gripping surfaces adapted to swing into and out of said openings, and cooperate with the inwardly facing gripping surfaces, in gripping parts inserted in said openings; and tongue-confining bands slidable on the body and tongues, and adapted to confine the tongues in gripping position, said bands being provided with tongue-engaging spurs.

1,389,305. KETTLE. HENRY M. HULL, Fairfield, Conn. Filed Oct. 15, 1920. Serial No. 417,189. 3 Claims. (Cl. 53—9.)



1. A kettle having a mouth, a lid, a spout, and a steam conducting tube entirely within the kettle extending from the steam space beneath the lid downwardly through the body of the kettle and into the spout.

1,389,306. PROTECTIVE ARRANGEMENT FOR ELECTRIC DISTRIBUTION SYSTEMS. PHILIP VASSAR HUNTER, Purley, and JAMES ROBERT BEARD, Benton, England, assignors to Electrical Improvements Limited, Newcastle-upon-Tyne, England, a Company of Great Britain. Filed Mar. 1, 1919. Serial No. 280,054. 5 Claims. (Cl. 175—294.)

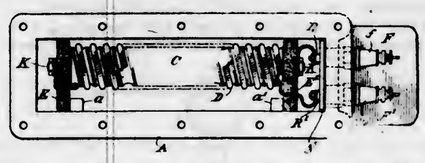


3. In a protective arrangement for split conductor systems of electric distribution the combination with the split or parallel conductors, of a balancing transformer at each end of the split conductors, switches controlling the split conductors, current transformers having their secondary windings in series with the respective split conductors and their primary windings in series with the switches controlling the split conductors and capacity current shielding sheaths interposed between the split conductors so that capacity current produced by the opposed potentials of the secondary windings of the current transformers are prevented from affecting the balancing transformers.

1,389,307. WATERPROOF ELECTRIC HEATER. LEE P. HYNES, Albany, N. Y., assignor to Consolidated Car-Heating Company, Albany, N. Y., a Corporation of West Virginia. Filed May 27, 1920. Serial No. 384,622. 8 Claims. (Cl. 219—19.)

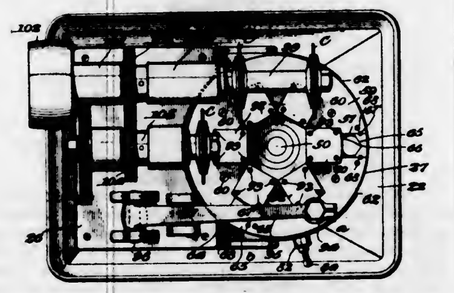
1. A weatherproof electric heater comprising a casing open at one side, a sealed cover plate secured to the open side of said casing, a longitudinally disposed heating coil within said casing, said coil having its core spaced from the sides and the ends of the casing, metal bushings re-

movably engaging one of the end walls of said casing, insulating posts carried by said bushings, metal terminals passed through said insulating posts and provided with



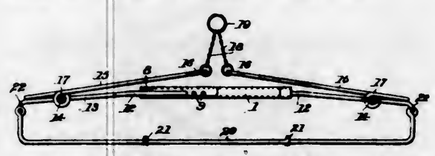
external binding posts, and means for connecting the inner ends of said terminals with the terminals of said coil.

1,389,308. SLOTTING-MACHINE. HERBERT S. JONES, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed May 6, 1918. Serial No. 232,834. 27 Claims. (Cl. 10—72.)



1. A machine for slotting metal articles having in combination, two parallel cutter shafts, two cutters on one of said shafts, a third cutter on the other shaft, means for driving said shafts, and a work carrier operable to carry the work successively against said cutters.

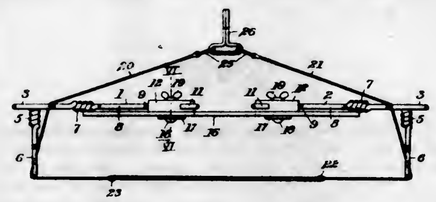
1,389,309. ADJUSTABLE GARMENT-HANGER. THEODORE KAUFER, New York, N. Y. Filed Oct. 15, 1920. Serial No. 417,098. 2 Claims. (Cl. 211—13.)



1. In a garment hanger, the combination with a central connecting member of channel form open at the top and having series of openings in its lateral walls, of shoulder members to extend into the ends of said channel member and provided with lateral projections to engage any of said openings for adjusting the hanger to fit different sizes of garments, said connecting member being made of sheet metal having its middle portion bent to form the upwardly opening channel and its edge portions bent outwardly, downwardly and inwardly from the upper edges of the walls of the channel to form tubular portions for inclosing the outer ends of the projections on the shoulder members which extend through the openings in said channel walls.

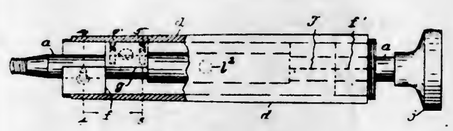
1,389,310. GARMENT-HANGER. THEODORE KAUFER, New York, N. Y. Filed Dec. 3, 1920. Serial No. 428,002. 11 Claims. (Cl. 211—13.)

1. In a garment hanger, the combination with a shoulder member having depending portions near the ends thereof, of a flexible collar supporting member engaging said depending portions and extending across between them for supporting other garments below the shoulder



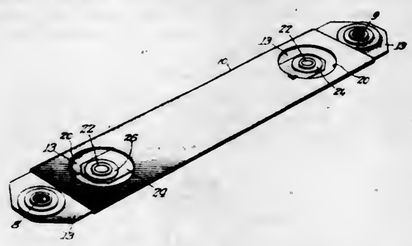
member, said flexible member also extending above the shoulder member, and means for supporting the hanger from the upwardly extending portion of the flexible member.

1,389,311. GRINDING-MACHINE. CONRAD KNOTH, Hillside, N. J., assignor to Hyatt Bearings Division, General Motors Corporation, Harrison, N. J., a Corporation of New York. Filed Aug. 10, 1920. Serial No. 402,682. 6 Claims. (Cl. 64—24.)



3. In a grinding machine, the combination, with a spindle, of a carriage, a tubular nozzle affixed to the carriage and inclosing the said spindle, and half-bearings fitted inside the nozzle at opposite sides of the spindle, the bearings upon one side of the spindle being fixed rigidly in the nozzle and the opposed bearings being provided with springs to press them and the spindle toward the fixed bearing.

1,389,312. ELECTRIC HEATER. EDWIN N. LIGHTFOOT, New York, N. Y., assignor to the Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 3, 1920. Serial No. 362,991. 11 Claims. (Cl. 219—67.)



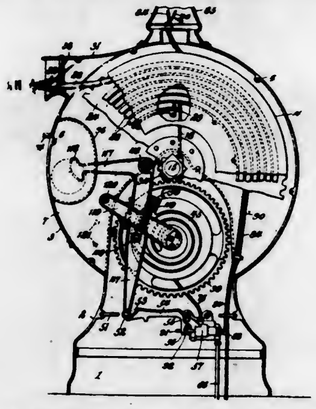
1. An electric heater having in combination a resistor, an insulating strip on each side of the resistor, one of the strips being provided with an aperture, a pair of sheet metal plates forming an inclosure for the insulated resistor and having alined apertures opposite the aperture in the insulating strip, and a hollow terminal rivet connected with the resistor and extending through the apertures of the insulating strip and the adjacent plate, the other insulating strip extending across the aperture in the adjacent plate to form an insulating window therefor.

1,389,313. TIE-BAR FOR ROLLER-BEARING CAGES. CHARLES S. LOCKWOOD, Newark, N. J., assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J., a Corporation of New York. Filed Sept. 16, 1920. Serial No. 410,700. 4 Claims. (Cl. 64—62.)



1. A roller-bearing cage having mortises therethrough and tie-bars each formed with two similar members having tenons to jointly engage the opposite mortises in the heads, the inner portions of the members being disposed radially to the center of the cage and forming a tangential contact with the adjacent sides of the rolls, and the outer portions of the members bent tangentially to the rolls upon the outer half of the same.

1,389,314. HOSE-REEL. JOSEPH B. MCMULLIN, Oskaloosa, Iowa, assignor to Western Manufacturing Co., Oskaloosa, Iowa, a Corporation of Iowa. Filed Aug. 13, 1919. Serial No. 317,294. 16 Claims. (Cl. 299—78.)



1. In a hose reel structure, a hose reel provided with a hub having gear teeth thereon with a circumferential groove in the gear teeth, a spindle carrying the hub, a spring drum with a gear wheel thereon engaging the gear teeth, and a shield overlying the gear teeth and provided with a tongue entering the groove in the gear teeth to hold the hub on the spindle.

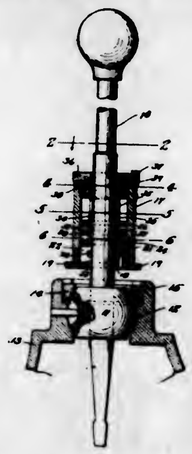
1,389,315. FINGER-RING-CASTING PATTERN. DE WITT T. MOATS, Indianapolis, Ind. Filed Dec. 15, 1920. Serial No. 430,895. 8 Claims. (Cl. 22—158.)



1. A flexible top half ring pattern.

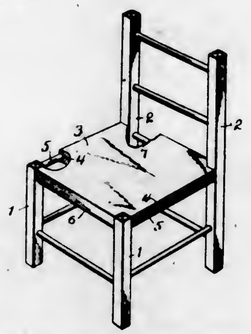
1,389,316. GEAR-SHIFT-LEVER LOCK FOR AUTOMOBILES. CHARLES W. MUELLER, St. Louis, Mo. Filed Feb. 28, 1919. Serial No. 279,845. 2 Claims. (Cl. 70—128.)

1. The combination of a fixed member, a lever fulcrumed therein, a lock mounted on said lever and comprising a housing slidingly mounted on said lever and held against rotation with respect to said lever, means on said housing for engaging said member to prevent movement of the lever, adjustable rings in the housing coöperating with the lever to permit longitudinal movement of the housing on the lever into and out of locking engagement therewith, a rotatable member on said housing



for manipulatively operating said rings, detaining means for yieldingly holding said member in rotatable adjusted position, and means for raising said housing when said disks are arranged to permit longitudinal movement thereof, said means also preventing said housing from returning to a locking position until it is forced into such locking position.

1,389,317. CHAIR. JOHN B. NOGGLE, Kansas City, Mo. Filed Nov. 8, 1920. Serial No. 422,434. 4 Claims. (Cl. 155—178.)

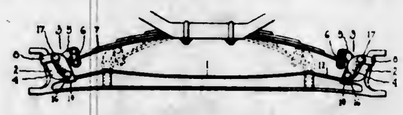


1. A chair having legs, a board seat and a rung supported by the legs and extending through the seat transversely with the grain of the board and holding the latter from vertical flexure in either direction, substantially as set forth.

1,389,318. SPRING-SUSPENSION ATTACHMENT FOR MOTOR-VEHICLES. LOUIS OBRECHT, Mount Clemens, Mich. Filed Sept. 27, 1920. Serial No. 413,135. 3 Claims. (Cl. 267—54.)

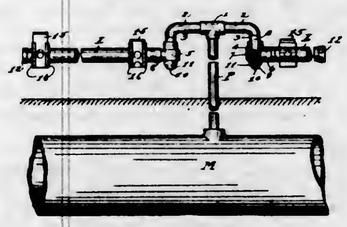
1. A spring attachment for motor vehicles having an axle formed with a laterally extending yoke arm adjacent each end thereof, said attachment including spring perches and a semi-elliptic spring connected at its ends

to said perches, each perch comprising a member formed to seat within the meeting angles of said axle and its yoke arms and to engage one side of the adjacent yoke



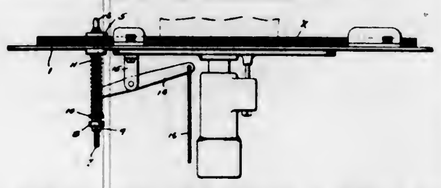
arm and axle, a clamping member to engage the other side of the yoke arm and axle, and means for securing the clamping member to said seated member to clamp said arm and axle therebetween.

1,389,319. IRRIGATING DEVICE. GEORGE E. QUIGLEY, Yorba Linda, Calif. Filed June 25, 1920. Serial No. 393,447. 5 Claims. (Cl. 61—12.)



1. An irrigating system including a water main, a vertical pipe communicating therewith and extended above the surface of the ground, oppositely directed pipes stationarily held on the upper end of said pipe, swivel members held on the ends of said stationary pipes, and horizontal pipes connected with said swivel members and adapted for movement in a substantial arc about the axis of said stationary pipes, said horizontal pipes having apertures therein for discharging the water therefrom.

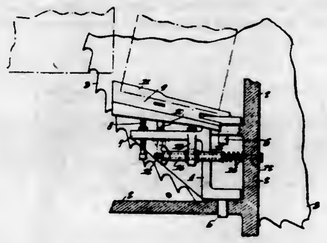
1,389,320. CLAMP FOR CLOTH-MACHINES. BARNETT RUBINSTEIN, St. Louis, Mo. Filed June 16, 1919. Serial No. 304,680. 1 Claim. (Cl. 164—79.)



In a cloth clamp, the combination of a work table, a clamping bar, a centrally arranged handle thereon, rods carried by the ends of the bar and extending through the work table, springs coöperating with the rods and tending to force the bar toward the table, a bar connecting the lower ends of said rods, a foot-operated lever, and a link connecting said foot-operated lever and the center of said connecting bar.

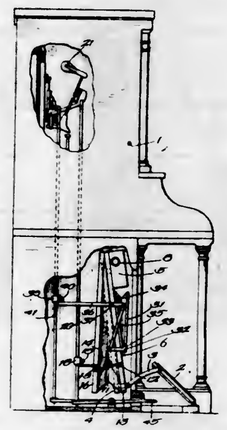
1,389,321. SHINGLE-MACHINE TABLE. HENRY SCHAAKE, Vancouver, British Columbia, Canada. Filed Aug. 4, 1920. Serial No. 401,249. 6 Claims. (Cl. 143—132.)

1. A table for a shingle cutting machine, said table comprising a bracket pivotally mounted in the frame of the machine to turn to and from the plane of the saw plate, a table top adjustably mounted on the bracket with one edge close to the plane of the saw plate, means for securing the top in any desired position of adjustment,



means limiting movement of the table top toward the plane of the saw plate, and means tending to hold it against that limit.

1,389,322. PUMPING SYSTEM FOR PLAYER-PIANOS. RAY W. SCOTT, New York, N. Y., assignor, by direct and mesne assignments, of two-fifths to Scott Player Action Co., Racine, Wis., a Corporation of Illinois, and three-fifths to The Northern Trust Company, Chicago, Ill., a Corporation of Illinois, trustee. Filed Sept. 12, 1919. Serial No. 323,319. 2 Claims. (Cl. 84—37.)

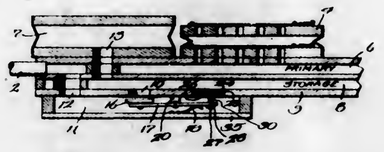


1. A player piano action in which a soft pedal stick rises to shorten the throw of the hammers, a pumping system having a storage reservoir, one wall of which is movable, a lifting lever which at one end underlies a portion of the pedal stick for lifting it, said lever having a stationary fulcrum at the other end and having a cam surface in it between its ends whereby the motion of the pedal stick is increased in comparison with the motion of the cam, and a controlling element actuated by the movable wall of the reservoir and adapted to actuate said cam for raising and lowering the lever and pedal stick in accordance with the movement of the movable wall of the reservoir.

1,389,323. PUMPING SYSTEM FOR PLAYER-PIANOS. RAY W. SCOTT, New York, N. Y., assignor, by direct and mesne assignments, of two-fifths to Scott Player Action Co., Racine, Wis., a Corporation of Illinois, and three-fifths to The Northern Trust Company, Chicago, Ill., a Corporation of Illinois, trustee. Filed Sept. 18, 1919. Serial No. 324,379. 12 Claims. (Cl. 84—40.)

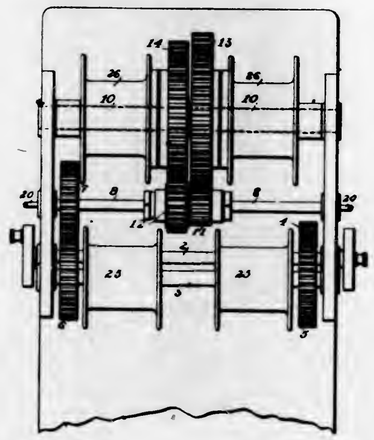
1. A pumping system for player actions having an exhaust pump, a storage chamber having a wall separating

it from said pump, the wall having a port passing through it, a tube communicating with the player action for actuating it, said tube communicating with the pump and communicating with the storage chamber through said port, a valve for controlling said port whereby when the valve



is closed the tension in the duct will be generated directly from the exhaust pump and when said valve is open the tension in said duct will be modified by the degree of tension in said storage chamber, and a diaphragm responsive to sudden changes of tension in said exhaust pump for controlling the position of said valve.

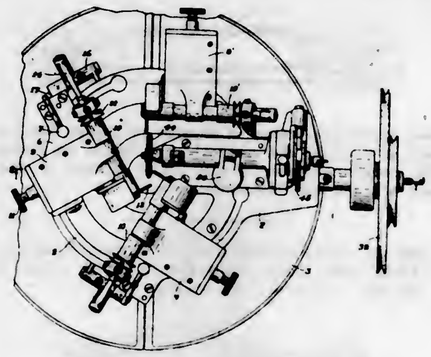
1,389,324. LOGGING-ENGINE. CHARLES M. STEVENSON, Vancouver, British Columbia, Canada. Filed Feb. 8, 1921. Serial No. 443,402. 5 Claims. (Cl. 254—185.)



1. In a log hauling engine having haul-back drums and independent main-line drums mounted on separate shafts, means including a shaft distinct from the haul-back drums and the main line drums and intermediate shafts for driving the shaft of the haul-back drums, an intermediate shaft located between the haul-back shaft and the main-line shaft, means for driving the intermediate shaft from the haul-back shaft, and means for driving the main-line shaft from the intermediate shaft, said driving means including mechanism for driving the main line shaft at different speeds.

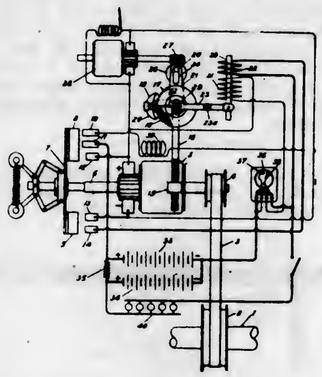
1,389,325. CUTTER-GRINDING MACHINE. JOHN J. THACHER, Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 21, 1919. Serial No. 332,323. 25 Claims. (Cl. 51—33.)

1. A cutter grinding machine comprising the combination of a rotary work support, a plurality of rotatable spindles each adapted to receive a grinding wheel thereon to dress the work, a support for each spindle, means permitting adjustment of each spindle support angularly relative to the work support, a member pivoted to each spindle support and having an arm directly engaging the



spindle, and mechanism for operating each member about its pivot to longitudinally reciprocate the spindles.

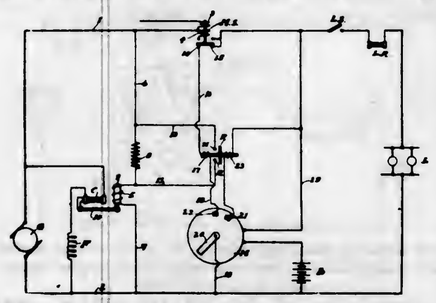
1,389,326. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed June 15, 1916. Serial No. 103,744. 6 Claims. (Cl. 171—313.)



4. A system of electrical distribution, a generator, a pair of storage batteries, like terminals of which are connected through a common lead to one side of said generator, an integrating meter in said lead measuring the net charge and discharge of both batteries, and means responsive to said meter to cause said generator to produce a substantially constant voltage.

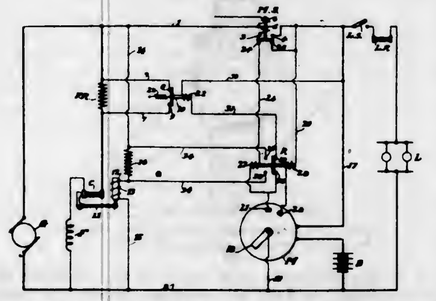
1,389,327. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,001. 14 Claims. (Cl. 171—313.)

2. In a system of the character described, in combination, a variable speed generator, a battery adapted for connection to be charged thereby, electro-responsive means to regulate the generator voltage during the times of closed circuit connection between the battery and the generator, and automatic means operable to affect said electro-responsive means but only at an interval of regu-



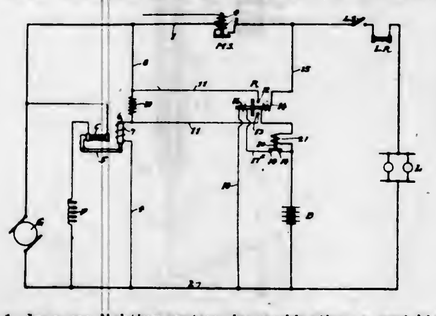
lating ineffectiveness of the latter succeeding a major charge to said battery.

1,389,328. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,002. 9 Claims. (Cl. 171—313.)



8. In an electrical system of distribution, in combination, a variable speed generator, a battery adapted for connection to be charged thereby, a regulator for said generator effective during battery charging, automatic means responsive to generator voltage and actuated upon a predetermined diminishment of such voltage under certain conditions to affect said regulator, and means to effect said diminishment of generator voltage at the completion of battery charging.

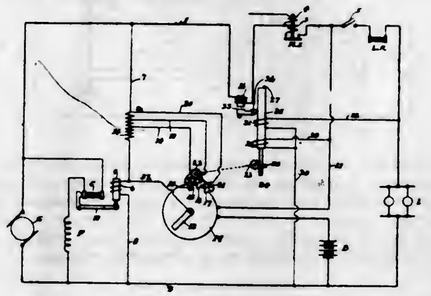
1,389,329. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,003. 5 Claims. (Cl. 171—313.)



1. In a car lighting system, in combination, a variable speed generator, a battery adapted for connection to be

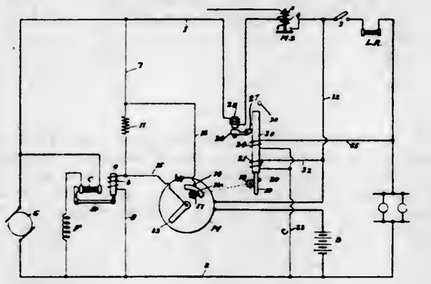
charged thereby, a regulator for said generator including a voltage responsive coil connected across the generator mains, an element of fixed resistance in series with said coil and automatic means responsive to battery charging current and operable upon the deliverance of said current in excess of a predetermined amount to shunt said resistance and operable upon the deliverance of battery charging current less than a predetermined lower amount to open the shunt about said resistance.

1,389,330. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,004. 11 Claims. (Cl. 171—313.)



1. In a car lighting system, in combination, a variable speed generator, a battery adapted for connection to be charged thereby, an electro-responsive regulator for the generator, and automatic means to affect said regulator for reducing the generator voltage after battery charging to a variable valve dependent on the condition of said battery.

1,389,331. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,005. 6 Claims. (Cl. 171—313.)

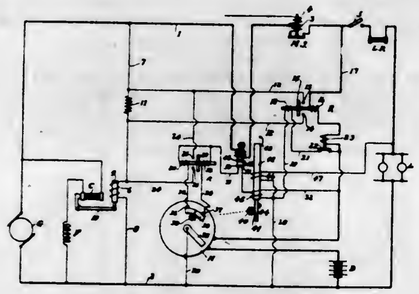


1. In a car lighting system, in combination, a variable speed generator, a battery adapted for connection to be charged thereby, electro-responsive regulating means for governing the generator voltage, and automatic means including an ampere hour meter to affect said regulator after a variable amount of measured current has been delivered to said battery for reducing the subsequent standard of voltage regulation.

1,389,332. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,006. 7 Claims. (Cl. 171—313.)

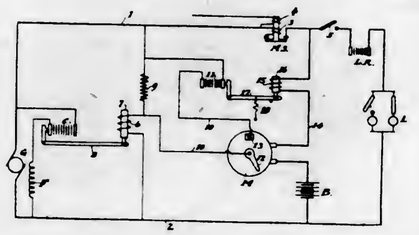
2. In combination, a variable speed generator, a storage battery adapted for connection to be charged thereby, a

regulator for said generator including a voltage-responsive coil tending when effective to maintain relative constancy of generator voltage as against speed changes and as against gradual changes in counter E. M. F. of the battery, automatic means influenced by the amount of charg-



ing current for affecting said regulator under certain conditions to determine the effectiveness of said coil, and means to affect said regulator at a time after substantial battery charging to determine the effectiveness of said coil dependent on the voltage of said battery and on a predetermined diminishment of generator voltage.

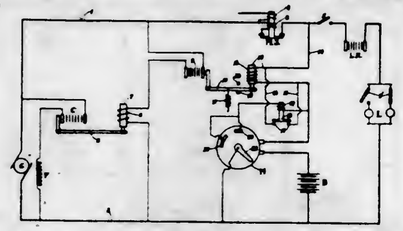
1,389,333. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,008. 3 Claims. (Cl. 171—313.)



1. In combination, a variable speed generator, a battery adapted for connection to be charged thereby, a regulator including a voltage coil tending when effective to maintain substantial constancy of generator voltage as against speed changes and as against gradual changes in the counter E. M. F. of the battery, a meter indicative of the state of battery charge by current measurement and adapted, after substantial battery charging, to affect said regulator for reducing the value of generator voltage constancy to be thereafter maintained, and means including a current coil connected in the battery branch to affect said regulator after the action of said meter.

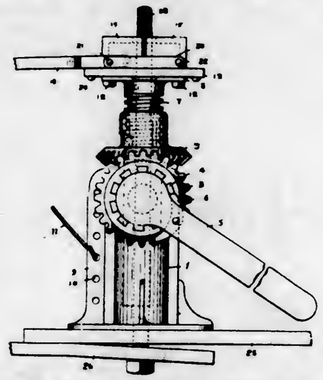
1,389,334. SYSTEM OF ELECTRICAL DISTRIBUTION. LEONARD A. WATSON, Brooklyn, N. Y., assignor to The Safety Car Heating and Lighting Company, New York, N. Y., a Corporation of New Jersey. Filed Sept. 19, 1919. Serial No. 325,010. 5 Claims. (Cl. 171—313.)

1. In combination, a variable speed generator, a battery adapted for connection to be charged thereby, a regulator including a voltage coil tending when effective to maintain constancy of generator voltage as against speed changes and as against gradual changes in counter E. M. F. of said battery, a variable resistance in the circuit of said coil, a series coil in the battery branch adapted to control said resistance, and means including an ampere



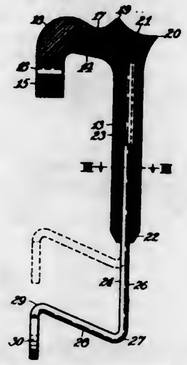
hour meter to render said series coil ineffective to control said resistance under certain conditions of battery charge.

1,389,335. PULLING AND HOLDING DEVICE. JOHN A. WATTERWORTH, Duluth, Minn. Filed Mar. 2, 1920. Serial No. 362,799. 4 Claims. (Cl. 29—84.)



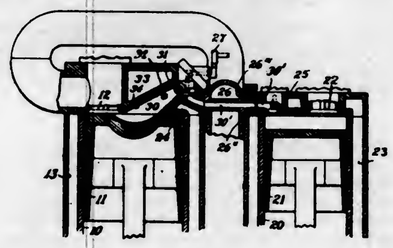
1. In combination, a jack screw of the character described having an axial bore entirely through the screw thereof, a threaded bolt through the entire length of the jack screw and extending thereabove, a bed plate pivotally carried upon the upper end of the screw of the jack and a split nut adjustably carried upon the bed plate and means whereby the bolt may be engaged or disengaged manually by the split nut.

1,389,336. ADJUSTABLE HANDLE FOR PERCOLATORS. ROY D. WICKERSHAM, Perry township, Marion county, Ind. Filed May 25, 1921. Serial No. 472,479. 3 Claims. (Cl. 16—119.)



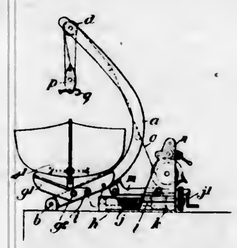
1. An adjustable handle comprising a non-metallic main part having a bore therein, the main part having a lateral arm provided on its end with a lug, and a metallic part comprising a rod longitudinally adjustable in the bore in the main part and having an arm thereon provided with an anchor plate.

1,389,337. INTERNAL-COMBUSTION ENGINE. MERL R. WOLFARD, Cambridge, Mass. Filed Mar. 22, 1916. Serial No. 85,758. 32 Claims. (Cl. 123—68.)



1. In an internal combustion engine, the combination of a cylinder; a mixing and combustion passage leading thereto; means to introduce the main charges of air and fuel into the passage gradually with progressive combustion during flow toward and into said cylinder; and a piston whose head is close to the head of the cylinder during said flow; there being a recess in one of said heads providing a space located to receive delivery of said passage which is greater than the space elsewhere between the close-together heads.

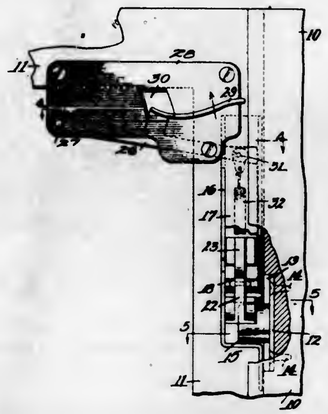
1,389,338. SHIP'S DAVIT. ROBERT HILLS ALEXANDER, Willington Quay, and THOMAS GRAHAM, Sunderland, England. Filed Feb. 20, 1920. Serial No. 360,082. Renewed July 23, 1921. Serial No. 487,132. 3 Claims. (Cl. 9—22.)



1. In a ship's davit the combination of a single curved davit arm broadened in each direction internally toward its pivotal axis, its curvature being such that when inboard, the pivotal axis is exterior of the vertical plane containing the longitudinal center line of the boat and the extremity of the arm in said vertical plane two laterally widely spaced bearings attached to the ship's deck carrying said pivotal axis, and lifting tackle for the boat carried by the extremity of the arm.

1,389,339. LOCK. CARL ERIC ANDERSON, Worcester, Mass. Filed Mar. 3, 1919. Serial No. 280,298. 5 Claims. (Cl. 292—198.)

1. A lock having, in combination, a striker, a casing, a latch pivoted therein, a locking member, and yielding means tending continuously to move said latch from operative to inoperative position and to advance said locking member to operative position, said locking member being held in inoperative position by said latch when the latter is in inoperative position, and when released, being movable directly toward said latch and being effective



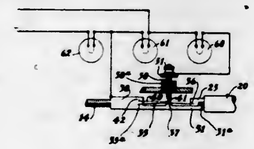
to advance said latch toward full operative position and to positively lock said latch in every advanced position thereof.

1,389,340. METHOD OF TREATING EXCELSIOR. BENJAMIN R. BEALL, Kansas City, Mo. Filed June 11, 1920. Serial No. 388,374. 6 Claims. (Cl. 167—3.)

1. The method of treating excelsior which consists in applying to the excelsior a substance capable of preventing development of must and mold and subjecting the excelsior to a packing pressure.

5. A packing material consisting of excelsior treated with a sulfite of soda in a dry state capable of preventing development of must and mold.

1,389,341. LINEAR-MEASURING MACHINE. BRYANT H. BLOOD, Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 31, 1920. Serial No. 355,466. 30 Claims. (Cl. 33—125.)

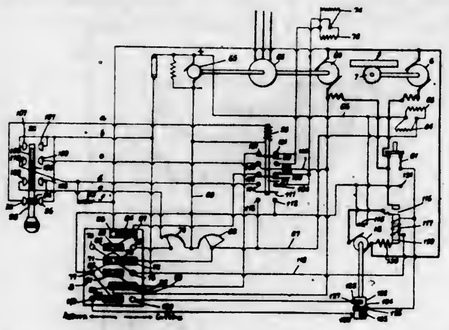


3. A measuring machine tailstock comprising in combination a longitudinally movable plunger, resilient means resisting movement of said plunger in one direction, and means deflected by movement of said plunger in said direction to open or close an electric circuit.

1,389,342. PLANER AND SYSTEM OF MOTOR CONTROL THEREFOR. HAROLD L. BLOOD, Plainfield, N. J., assignor to Niles-Bement-Pond Company, Jersey City, N. J., a Corporation of New Jersey. Filed Mar. 15, 1917. Serial No. 154,927. 22 Claims. (Cl. 172—240.)

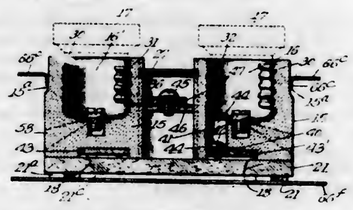
1. The combination of a reciprocating table, a reversing electric motor connected with the table, an automatic table actuated switch normally serving to successively reverse the motor and cause it to drive the table successively in opposite directions, a manually operable switch supplemental

to the table actuated switch for controlling and reversing the motor, and a relay switch automatically operable upon



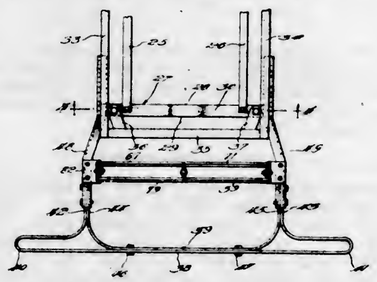
movement of the supplemental switch to an operative position and serving to render the table actuated switch inoperative.

1,389,343. PANEL-BOARD STRUCTURE AND BRANCH-BLOCK UNITS. JOHN CUTHBERT and JULIAN J. NIELSEN, Chicago, Ill.; said Cuthbert assignor of his right to John Cuthbert Company, Chicago, Ill., a Corporation. Filed May 18, 1916. Serial No. 98,305. 3 Claims. (Cl. 173—342.)



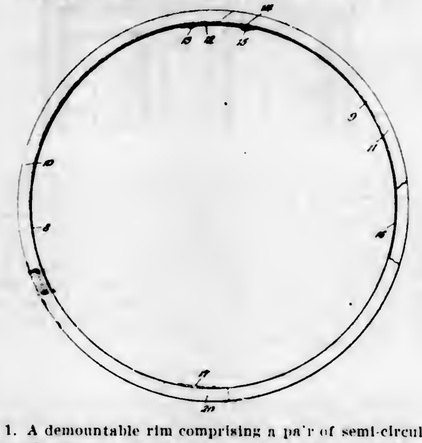
1. A receptacle for screw threaded plugs comprising a body of molded insulating material having a screw threaded recess therein, the threads of the recess being molded in the body and extending around less than half of the circumference of the recess, and a conducting terminal embedded in and held by the body within the recess opposite the threaded portion thereof and having threads corresponding to the threads molded in the body.

1,389,344. BUMPER-BAR AND SUPPORT THEREFOR. JOSEPH DI SALVO, Chicago, Ill. Filed Sept. 27, 1920. Serial No. 412,954. 7 Claims. (Cl. 293—55.)



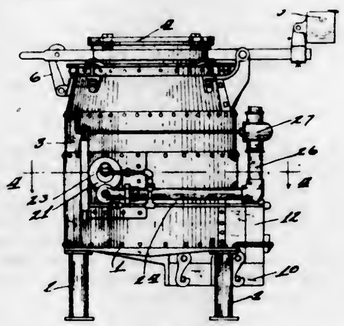
4. The combination with the side rails and the back cross end channel member of a chassis frame, of a pair of rearwardly extending supporting arms adjacent to the ends of said cross channel member, a bumper bar in conjunction with the rear ends of said supporting arms, and means for securing said supporting arms rigid with respect to the cross end member, said means including angle bars each having one arm in engagement with a flange of the cross end member and having another arm in engagement with and secured to the aforesaid supporting arms, whereby said supporting arms are secured against movement with respect to the cross end member by the engagement of the angle bars with the channel flanges, substantially as described.

1,389,345. DEMOUNTABLE RIM. THOMAS EDGAR DUNBAR, Lakeland, Fla., assignor of one-half to H. Crevasse and John L. Hogan, Lakeland, Fla. Filed May 29, 1920. Serial No. 385,281. 7 Claims. (Cl. 301—31.)



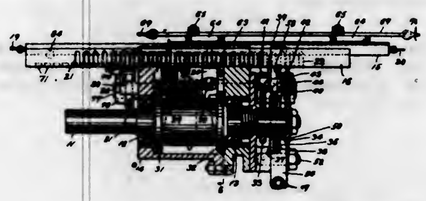
1. A demountable rim comprising a pair of semi-circular flanged segments, a latch holding the segments together at one joint, flattened eyes provided upon the segments at the diametrically opposite joint, and a key passed through the alined eyes and locking the segments together, said key being readily withdrawn from one side of the rim.

1,389,346. STEEL-FURNACE. ALFRED FISHER, Chicago, Ill. Filed Feb. 24, 1920. Serial No. 360,679. 6 Claims. (Cl. 263—11.)



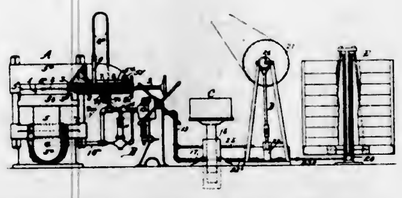
1. In a furnace of the class described a combustion chamber floor having a concave annular bottom groove affording a crucible support, a cylindrical intermediate combustion chamber portion having vertical walls extending from the top of the crucible support to a point slightly above the upper end of a crucible placed on said support, and a conical upper section above the cylindrical portion adapted to choke the blast-flames and concentrate the same in said cylindrical portion of the combustion chamber around the crucible.

1,389,347. CONTROL DEVICE APPLICABLE TO AIRCRAFT, MARINE STEERING-GEAR, AND OTHER APPARATUS. WILLIAM CHARLES GARDINER, Barnstaple, England. Filed Apr. 1, 1920. Serial No. 370,440. 7 Claims. (Cl. 244—29.)



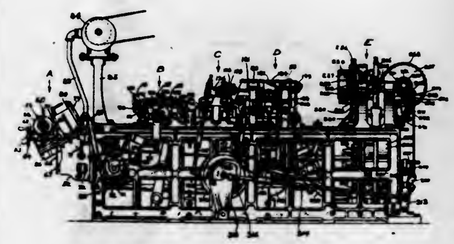
1. In apparatus for transmitting motion in either direction alternately at will, a combined automatic power-relay and hunting-gear comprising a motion-transmitting element movable to and fro and so coupled to the load to be moved as to be capable of transmitting motion thereto in a corresponding direction; a prime mover and a connection therefrom to said element whereby to permit of the latter receiving motion from the prime mover in either direction alternatively; a manually-operable controlling-member movable at will in either of two directions alternatively; a second motion-transmitting element movable in a general direction corresponding to that of the first member and so coupled to the controlling-member as to move to and fro as one with the latter; a yielding connection between the two motion-transmitting elements such that motion will be transmitted from the second to the first element without lost motion between them so long only as the resistance due to the load does not exceed a predetermined value; and means whereby, when such resistance exceeds the predetermined value and said connection consequently yields under the manual effort transmitted through it, the resulting displacement of the second element relatively to the first due to lost motion between them is caused to bring the prime mover into operation to move the first element in a direction and to an extent corresponding to the direction and extent of the motion manually imparted to the controlling-member.

1,389,348. APPARATUS FOR CALIBRATING AND JUSTIFYING PARTS OF WIND MUSICAL INSTRUMENTS. EDWARD J. GULICK, Elkhart, Ind., assignor to C. G. Conn., Ltd., Elkhart, Ind., a Corporation of Indiana. Filed June 2, 1919. Serial No. 301,211. 10 Claims. (Cl. 113—44.)



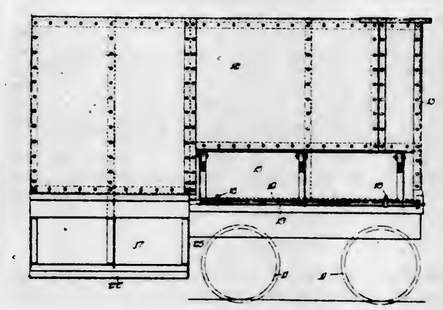
1. In a hydraulic die-pressing system, the combination of a pair of separable dies adapted to receive and confine a work-piece between them, a die conduit adapted to supply fluid pressure medium to said dies, a holding press comprising a ram and a coacting head between which said dies are clamped, a conduit for supplying pressure medium to said ram, controlling valves connected to the respective conduits, a low pressure source and a high pressure source, each supplying both said conduits, and a pressure-reducing valve interposed between the ram conduit and the source of high pressure.

1,389,349. MACHINE FOR FORMING CAN-BODIES. CHARLES F. HAKE, Jr., and ANTON MILL, Sr., Cincinnati, Ohio; said Mill assignor to said Hake. Filed Oct. 14, 1919. Serial No. 330,564. 15 Claims. (Cl. 113—11.)



1. In a can-body forming machine the combination of a feeding mechanism adapted to feed two sheets of metal side by side in a longitudinal direction, a mechanism adapted to bend a flange upon each longitudinal edge of the sheets, a mechanism adapted to interlock the adjacent flanges, a mechanism adapted to roll the sheets thus interlocked into a cylindrical form and a mechanism adapted to interlock the flanges made adjacent by thus rolling the interlocked sheets.

1,389,350. DUMP-CAR. HARRY S. HART, Chicago, Ill. Filed Apr. 7, 1919. Serial No. 288,049. 4 Claims. (Cl. 105—251.)

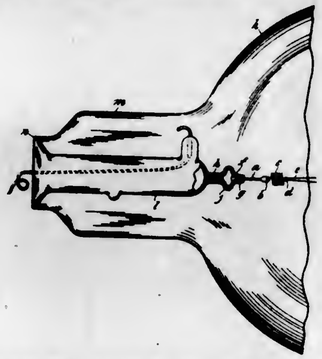


1. A car of the class described, having high girder sides carrying the load, the floor over the trucks comprising a stationary horizontal flat portion, the floor intermediate the trucks being at a lower level than the floor portions over the trucks, side dump doors formed within the area of the girder sides and associated with the floor portions over the trucks, and floor dump doors intermediate the trucks whereby the load may be dumped.

1,389,351. MEANS FOR SUPPORTING ELECTRODES IN IONIC TUBES. CHARLES HOWARD HARVEY, London, England, assignor, by mesne assignments, to The General Electric Company, Ltd., London, England. Filed May 7, 1918. Serial No. 232,999. 3 Claims. (Cl. 250—27.)

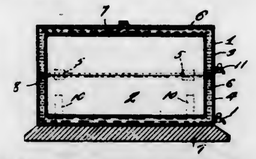
2. In an ionic tube, the combination of a tubular socket of glass fixed within said ionic tube, a shoulder at the outer end of said socket, an anchor-wire passing through said socket and slidable therein, a knob on the

anchor-wire engaging said shoulder, a filament and a spring having its one end connected with said filament



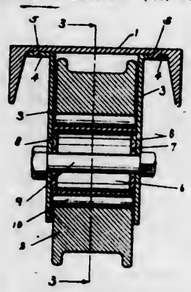
and its other end connected with said anchor-wire and exerting a stress whereby said knob is drawn against said shoulder.

1,389,352. BREAD-RAISER. LULA B. HAWKINS, Council Bluffs, Iowa. Filed July 13, 1920. Serial No. 395,882. 1 Claim. (Cl. 126—281.)



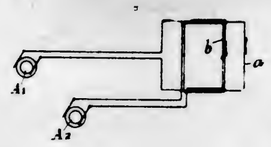
A dough raiser comprising a cylindrical body member, said cylindrical body member being formed from two semi-circular sections longitudinally hinged together, a water chamber extending around the outer and end walls of the semi-circular section thereby forming a water chamber extending around the entire body member and ends thereof when the semicircular sections are closed, means for supplying water to the water chambers of each section, means for draining water from the water chambers of each section and a supporting base for supporting the cylindrical body member.

1,389,353. DRY-KILN TRUCK. CHARLES A. HENDERSHOTT, Grand Rapids, Mich. Filed Apr. 29, 1921. Serial No. 465,570. 4 Claims. (Cl. 105—160.5.)



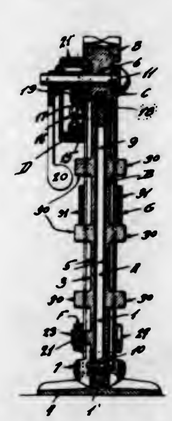
1. In a dry kiln truck, the combination of a body formed of channel iron disposed facing downwardly, a wheel, angled wheel hangers disposed within the body, to embrace said wheel and their horizontal arms against and secured to the under side of the web thereof, a tubular bearing member supporting disk secured on the inner sides of said hangers to receive the ends of the bearing member, a bolt disposed through said hangers and bearing member clamping the hangers upon the ends of said bearing member, and bearing rollers for said wheel, said hanger members constituting end thrust members for said rollers.

1,389,354. METHOD OF AND MEANS FOR INCREASING POWER FACTOR. CARL HERING, Philadelphia, Pa. Filed June 18, 1914. Serial No. 845,773. 7 Claims. (Cl. 172—246.



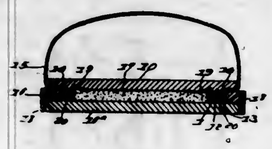
2. The combination with a source of alternating current, of an inductive loop in circuit with said source, and means for overcoming the inductance produced by said loop comprising a balancing coil or winding disposed in close proximity to said loop, and means for passing through said balancing coil or winding an alternating current of such phase relation with respect to the current in said loop and of such magnitude that said balancing coil is overexcited whereby the inductance of said loop is slightly overbalanced.

1,389,355. LIFTING-JACK. JAMES L. HEROLD, St. Louis, Mo. Filed Aug. 16, 1920. Serial No. 403,970. 15 Claims. (Cl. 254—109.)



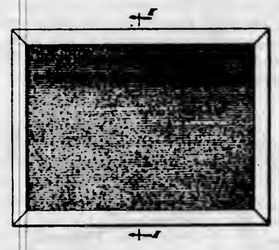
1. In a lifting jack, a stationary column provided with a pair of racks, a movable column, an operating lever pivoted to said movable column, a pair of pawls adapted to engage said racks, fulcrum members connecting said pawls to said operating lever, yieldable engaging means tending to engage said pawls with said racks, yieldable disengaging means, including spring members, adapted to disengage said pawls from said racks, a reversing device whereby said yieldable engaging means is released from said pawls to permit effective operation of said yieldable disengaging means, and a stop device whereby movements of said pawls are limited when they are actuated by said yieldable disengaging means.

1,389,356. SHOE. MEYER S. HESS, Baltimore, Md. Filed Apr. 27, 1920. Serial No. 376,954. 13 Claims. (Cl. 36—22.)



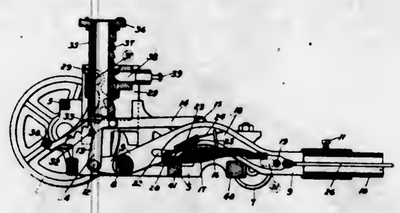
1. A shoe insole having in connection with its web or lip a reinforcing strip marginally attached to the web and the adjacent surface of the insole in spanning relation with the inner angle formed thereby for tensioning by the upper securing stitches.

1,389,357. SCREEN FOR EXHIBITING MOVING PICTURES. FREDERICK W. HOCHSTETTER, New York, N. Y., assignor to H. P. Patents and Processes Company, Inc., a Corporation of New York. Filed Apr. 8, 1919. Serial No. 288,469. 4 Claims. (Cl. 88—24.)



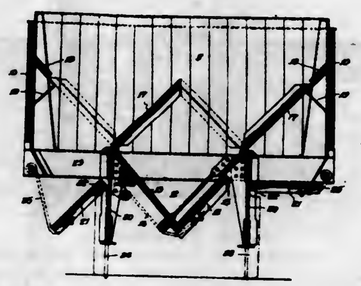
1. A screen for exhibiting moving pictures, in the form of a plate made of transparent gelatinous material, an alkali and an acid mixed in the material for converting the transparency of the material to a translucency, and a material for clarifying the translucency of the plate when of a pronounced opaqueness.

1,389,358. JACK. ARTHUR C. HOPKINS, Minneapolis, Minn. Filed Mar. 18, 1921. Serial No. 453,447. 12 Claims. (Cl. 254—2.)



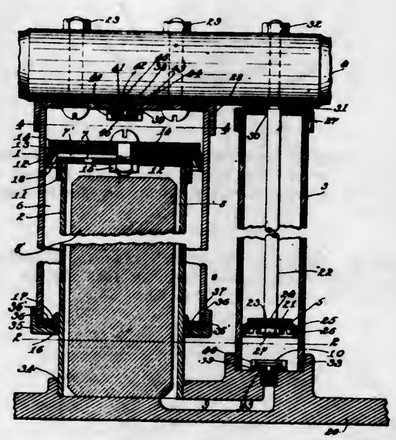
1. A jack consisting of a portable frame, a lifting member vertically slidable in the frame, a notched cam member pivotally secured to the lifting member, a lever, comprising a handle at one end, pivotally mounted in the frame, means at the other end of the lever for engaging the cam member, and lugs fixed in the frame, said lugs and engaging means being adapted to alternatively engage the cam member.

1,389,359. DUMP-CAR. WILLIAM J. HOSCEIT, Chicago, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a Corporation of Maine. Filed June 12, 1920. Serial No. 388,400. 3 Claims. (Cl. 105—243.)



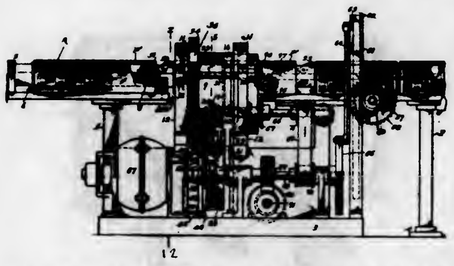
1. In a dump car having a longitudinal sill, sides, ends and a bottom, a portion of the bottom comprising a swinging dump door hinged at a point intermediate the depth of said sill for increasing the carrying capacity of the car and for controlling the flow of dumpable material to a given point beyond a track rail for a given door opening.

1,389,360. AIR-PUMP. WALTER M. INGRAM, Baltimore, Md. Filed Aug. 6, 1919. Serial No. 315,638. 4 Claims. (Cl. 230—27.)



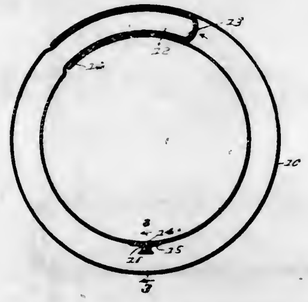
1. An air pump having a moving member and a fixed member, a low pressure cylinder and a high pressure piston mounted on one of said members, a plunger adapted to enter the low pressure cylinder and a high pressure cylinder coöperating with the high pressure piston on the other of said members, the plunger having a considerable clearance in the cylinder forming an annular space which serves as an intermediate compression chamber and a passage connecting the compression ends of the intermediate compression chamber and the high pressure cylinder.

1,389,361. METHOD AND APPARATUS FOR PLATE COOLING AND FINISHING. ROBERT T. JOHNSTON, Scotch Plains, N. J., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Sept. 6, 1918. Serial No. 252,887. 59 Claims. (Cl. 29—21.)



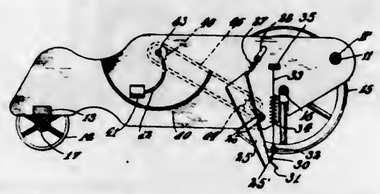
1. The combination of a cooling bath and a finishing mechanism arranged to act in that order on a plate, and means for effecting the relative movement of a plate and said elements for such action.

1,389,362. INNER TUBE FOR TIRES. REECE JONES, Tulsa, Okla. Filed Sept. 25, 1919. Serial No. 326,278. 5 Claims. (Cl. 152—13.)



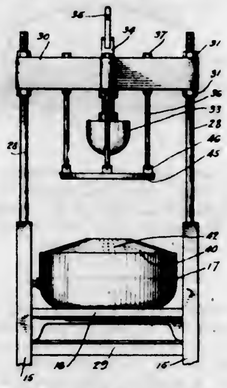
4. An inflatable inner tube having closed telescopically connected terminals relatively movable by internal air pressure to increase the circumference or effective length of the tube.

1,389,363. POTATO-PLANTER. ARCHIP KARPENKO, New York, N. Y. Filed Dec. 30, 1919. Serial No. 348,300. 1 Claim. (Cl. 111—89.)



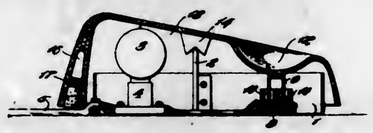
In a potato planter of the character described, embodying a crank shaft, a plurality of funnel elements, tension springs secured with one of their ends to said funnel elements and with the other to said crank shaft, doors for normally closing the lower ends of said funnel elements, angular arms secured to said doors, and wires embodying tension springs, secured to said doors and to the front of the planter for keeping said elements in their proper inclined positions.

1,389,364. PROCESS AND APPARATUS FOR MAKING NATURAL-EDGE BEAVER HATS. JOHN L. KAUFMAN, Brooklyn, N. Y. Filed May 31, 1921. Serial No. 474,037. 11 Claims. (Cl. 223—31.)



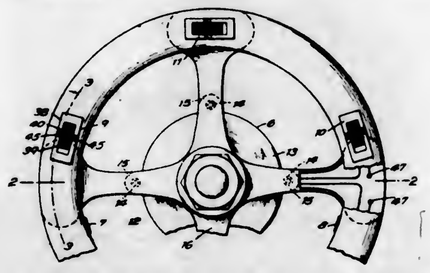
1. A device for forming hats comprising, in combination with a press, a chamber carried therein, means for heating and cooling said chamber, a perforate forming die on said chamber shaped to the peripheral and surface contour desired for the finished hat brim, means for locating said die, and means for adjustably clamping the exterior margin of hat brims on said die.

1,389,365. ADVERTISING CHANGE-TRAY. MORRIS KLINE, Cleveland, Ohio. Filed Aug. 5, 1918. Serial No. 248,273. 5 Claims. (Cl. 194—9.)



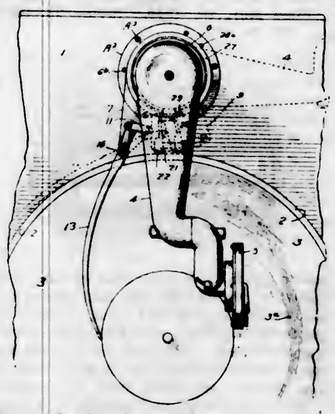
1. In a device of the character set forth, the combination of a base, a change tray pivotally supported thereby, and bearing an advertisement, an electrical illuminating device carried by the base for lighting the advertisement, a switch supported by the base and adapted to be closed by the tilting of the change tray under the weight of a coin, and a circuit including the illuminating device and switch.

1,389,366. AUTOMOBILE SIGNAL-CONTROLLING MECHANISM. CHARLES C. LODER, Cincinnati, Ohio. Filed June 30, 1917. Serial No. 177,986. 2 Claims. (Cl. 200—59.)



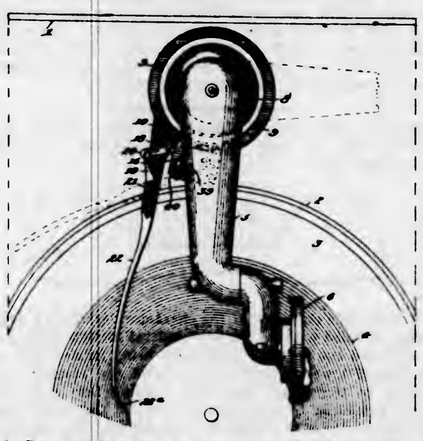
1. A contact device for automobile signal controlling mechanisms adapted to be located on a steering wheel in position to be accessible to the shifting movement of the thumbs of the operator, said device consisting of a casing, contacts within the casing and a shifting block located within the casing, adapted to be shifted by the operator's thumbs, in directions substantially concentric with the periphery of the wheel, whereby the contacts may be engaged and disengaged.

1,389,367. STOP MECHANISM. JOSEPH W. LUCIER, Kankakee, Ill., assignor of one-half to Harry L. Topping, Kankakee, Ill. Filed May 8, 1920. Serial No. 379,854. 25 Claims. (Cl. 192—116.)



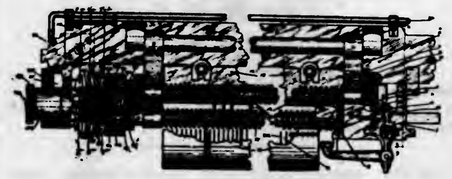
10. Stop mechanism for sound-reproducing devices having a turn-table and tone-arm, said mechanism comprising a plurality of components, one component including an actuating member associated with the tone-arm, another component including a support also associated with the tone-arm, locking means associated with the support, brake-mechanism associated with the turn-table and movably mounted on the support, a limit-setting member disposed on the support, a connection between the limit-setting member and the brake mechanism whereby movement of the limit-setting member positions the brake mechanism, and a trip member associated with the brake mechanism and positioned in the path of the actuating member.

1,389,368. PHONOGRAPH-STOP. JOSEPH W. LUCIER, Kankakee, Ill. Filed Oct. 8, 1920. Serial No. 415,597. 26 Claims. (Cl. 192—116.)



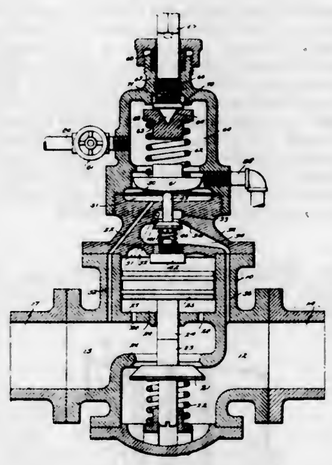
1. Stop mechanism for sound-reproducing devices including a supporting-structure, a pointer shiftable in relation thereto, a brake-mechanism juxtaposed to and settable by the pointer, and means independent of the pointer for setting the brake-mechanism irrespective of the position of the pointer.

1,389,369. TYPOGRAPHICAL MACHINE. GEORGE E. MARLATT, Pasadena, Calif. Filed Mar. 17, 1921. Serial No. 452,964. 12 Claims. (Cl. 199—43.)



1. In a typographical machine, in combination, the matrix-distributer screws, a matrix-lifting member for lifting the matrices into engagement with said screws, a cam for controlling the action of said matrix-lifting member, and means for effecting such relative speed between said distributer screws and said cam as will cause a matrix to be engaged by said screws at alternate rotations of the screws.

1,389,370. COMBINED PRESSURE REGULATING AND GOVERNING APPARATUS. JULES P. METZGER, Carlstadt, N. J., assignor to The Leslie Co., Lyndhurst, N. J., a Corporation of New Jersey. Filed Jan. 14, 1920. Serial No. 351,355. 4 Claims. (Cl. 103—91.)

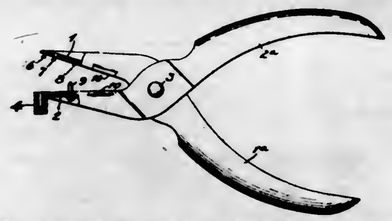


1. A pressure regulator, comprising a main controlling valve for controlling the pressure of a fluid passing through the regulator, a diaphragm exposed at one side to the said fluid pressure, a chamber at the other side of the diaphragm and connected with another source of pressure supply, and a spring setting device in the said chamber engaging the said other side of the diaphragm.

1,389,371. PLIERS. REINHARDT F. METZGER, Brooklyn, N. Y. Filed May 10, 1921. Serial No. 468,217. 2 Claims. (Cl. 81—3.)

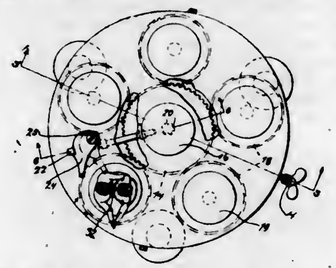
1. A riveting tool comprising, a pair of jaws with means for moving the same toward and away from each other, a

socket carried by one of said jaws, the other jaw having an opening therein facing said socket, one of said jaws



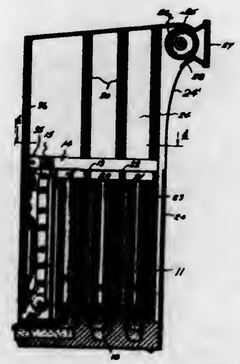
having an opening facing a solid part of the opposite jaw, a punch on one of said jaws, and an opening on the other facing said punch.

1,389,372. MECHANICAL TOY. JOSEPH MITERA, Plainfield, N. J. Filed Jan. 15, 1921. Serial No. 437,402. 1 Claim. (Cl. 46—40.)



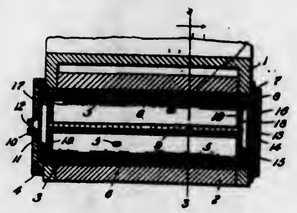
A mechanical toy comprising a circular casing, a spring actuated clock work mechanism therein, a central vertical sleeve driven thereby, a plurality of like sleeves spaced concentric therewith, said concentric sleeves being geared to the central sleeve, figural couples carried by all of said sleeves above said casing, a rod slidable in said casing, one end of said rod being engageable in recesses in said central sleeve, means for normally causing such engagement, a lug on said rod projecting above said casing, and a manually operable cam pivoted on said casing adapted to engage said lug to withdraw it from the mentioned recesses thereby permitting rotation of said couples.

1,389,373. REAR-END AUTOMOBILE-SIGNAL. GEORGE G. MOAIN, Holyoke, Mass. Filed Nov. 27, 1918. Serial No. 264,331. 2 Claims. (Cl. 177—329.)



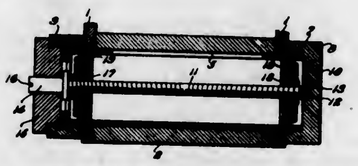
1. In a signaling device for automobiles, the combination with a casing, of a vertically movable signal in the casing, a frame in the casing, a horisontal arm on the frame, projecting over the signal, whereby the frame is compelled to move vertically when the signal is moved vertically, a depending arm on the frame, a wall in said casing guiding the vertical movement of the arm, and a plurality of switches in said casing located in the path of movement of the arm and successively operated by said arm.

1,389,374. LUBRICATING SPRING-BOLT. HARRY M. NAUGLE, Canton, Ohio, assignor to The Alloy Parts Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Mar. 20, 1919. Serial No. 283,855. 2 Claims. (Cl. 64—27.)



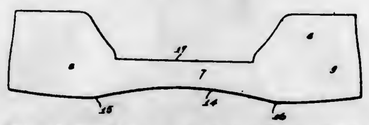
2. A hollow bearing bolt having an aperture through its side and provided with an integral wall closing one end, a removable disk closing the other end of the bolt, an integral head formed upon one end of the bolt, screw threads upon the opposite end of the bolt for the reception of a nut, a screw threaded shaft journaled in said wall and disk and a plunger upon said shaft for compressing a lubricant within the bolt and forcing it through said aperture.

1,389,375. LUBRICATING-BOLT. HARRY M. NAUGLE, Canton, Ohio, assignor to The Alloy Parts Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed July 23, 1919. Serial No. 312,794. 7 Claims. (Cl. 64—27.)



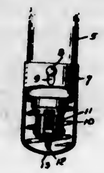
4. A hollow bearing bolt having a longitudinal aperture through its side and provided with screw threaded extremities, caps mounted upon said screw threaded extremities inclosing each end of the bolt, a threaded shaft journaled in said caps and a plunger mounted upon said threaded shaft to compress a lubricant within the bolt.

1,389,376. MOCCASIN. ALFRED F. OBIE, Lisbon, Me. Filed Feb. 8, 1921. Serial No. 443,407. 1 Claim. (Cl. 36—11.)



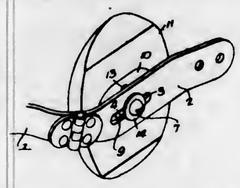
For use in a moccasin of the character described a vamp blank provided with a restricted central section and a pair of enlarged end sections, said vamp being formed with an arc-shaped lower edge extending from one enlarged end section to the other, said edge merging into a reverse curve extending to the respective ends of the vamp while the upper edge of the vamp is cut down centrally for forming the restricted section and formed so that the said upper edge will be straight when the vamp is spread out.

1,389,377. CHECK-PROTECTOR. JOHN JOSEPH O'BRIEN, Brooklyn, N. Y. Filed June 1, 1921. Serial No. 474,193. 5 Claims. (Cl. 101—30.)



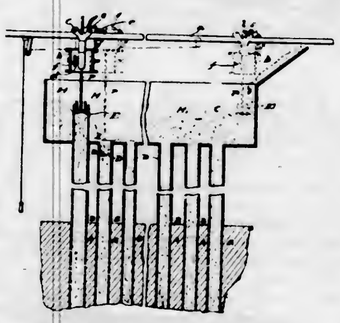
1. A protector including a means presenting a mounting, a cap slidably secured to said mounting and means within said cap and projectable beyond the same for permitting of the forming of indentations upon a piece of paper.

1,389,378. TRUSS-FIXTURE. WILLIAM D. PATTON, Philadelphia, Pa., assignor to William H. Horn & Brother Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Feb. 2, 1920. Serial No. 355,747. 9 Claims. (Cl. 128—124.)



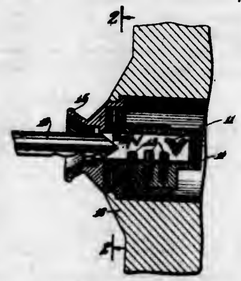
1. The combination of a truss frame having an elongated serrated slot, a truss pad having a toothed projection formed to non-rotatably engage the serrations of such slot and means for clamping said parts together.

1,389,379. METHOD AND APPARATUS FOR PRODUCING A REGULAR PROGRESSION OF MATERIALS IN VERTICAL OVENS. JULIEN PIETERS, Paris, France, assignor to Societe du Four Vertical Continu, Paris, France. Filed Mar. 18, 1919. Serial No. 283,430. 2 Claims. (Cl. 202—5.)



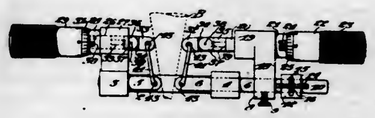
2. In an apparatus described, the combination with a battery of retorts, a reservoir, a plurality of hoppers leading from the bottom of the reservoir to the retorts, and a push plate for forcing the material in the hoppers, of a tubular member having a section corresponding to the section of the hoppers and arranged in the reservoir over a hopper to form an extension thereof, said member being adapted to contain the material of the hopper and in which the push plate works.

1,389,380. LOCK. HERMAN RAAB, New York, N. Y. Filed Mar. 1, 1920. Serial No. 362,463. 4 Claims. (Cl. 70—53.)



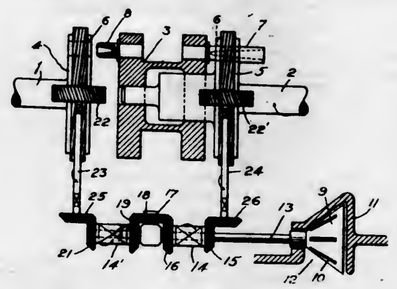
1. In a lock, a key plug, a key actuated tumbler or tumblers for securing said key plug, permutation elements and a locking pin controlling engagement of the key and key plug independently of the tumbler or tumblers, said locking pin being under control of the permutation elements aforesaid.

1,389,381. TAPER-GAGING CALIPER. FRANKLIN G. RENTON, Providence, R. I. Filed Oct. 27, 1919. Serial No. 333,675. 12 Claims. (Cl. 33—163.)



1. In an instrument for measuring tapered pieces having opposite angular faces, the combination of two pairs of elements for gaging the work at a plurality of points spaced at a predetermined distance apart, said gaging-elements formed with rounded ends to adapt them to contact with the angular faces at opposite points in a single plane, and means for adjusting the gaging-elements against the work while maintaining a constant spaced relation therebetween.

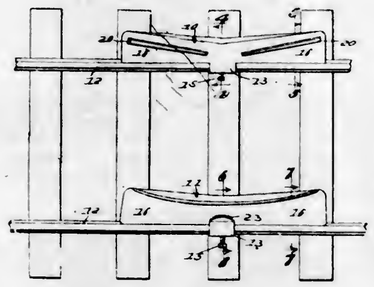
1,389,382. SYNCHRONISM-INDICATOR. JOHN P. RIGSBY, Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 15, 1918. Serial No. 240,261. 5 Claims. (Cl. 235—103.5.)



3. A device for indicating synchronous movement of independently rotating shafts, comprising a rotary indicator responsive to relative rotary movement of the said shafts, an indicator shaft, driving gears therefor mounted axially

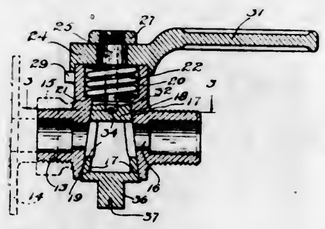
thereof, a supporting cage pivoted axially of the indicator shaft for oscillatory movement, gear means for driving the indicator, carried by the cage, so that it will operatively engage the said driving gears and mesh therewith during oscillation of the cage, adapted to be moved into and out of operative engagement with the said rotary shafts when the cage is oscillated, and means for holding the gear means in operative and inoperative positions.

1,389,383. RERAILER. THEODORE RIVARD, Newport, Vt. Filed July 21, 1919. Serial No. 312,332. 1 Claim. (Cl. 104—265.)



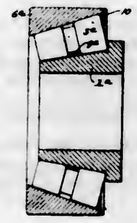
A rerailer consisting of a duality of elements for location respectively adjacent the inner and outer sides of opposite rails, the one being formed with a tread surface inclining upwardly from the extremities to the center and inclining downward and laterally away from the rail tread, said element on its inclined portions being provided with diagonally disposed guide ribs and having at its apex a crown higher than and inclined toward the rail tread, the other element inclining upwardly from its extremities toward the center with its tread surface inclining downwardly in a lateral direction toward the plane of the rail and being depressed in a plane near the inside surface of the rail tread, said other element having its tread surface provided with a guard rib extending substantially throughout the length thereof.

1,389,384. AIR-COCK. WALTER M. ROBINSON, Arlington, Mass., assignor to Victory Equipment Corporation, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 10, 1918. Serial No. 211,293. 3 Claims. (Cl. 251—112.)



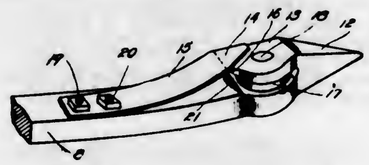
1. An air valve comprising a casing provided with interally projecting coupling members and having a frustoconical seat and a bonnet which provides a spring chamber above the smaller end of said seat, a plug in said seat having an unobstructed frusto-conical contour and having a shouldered stem at its smaller end extending through said spring chamber and having its larger end solid and closing the larger end of said seat, a cap seated against the shoulder on said stem and having an annular flange overlapping the bonnet, a handle extending from said cap, a nut on said stem clamping the cap against said shoulder, and a spring located in said chamber and having one end bearing against the bottom of said chamber and its upper end bearing against said cap and acting to hold said plug in constant close bearing relation to said seat.

1,389,385. ROLLER-BEARING. CLARENCE E. ROBSON, Philadelphia, Pa. Filed Feb. 25, 1919. Serial No. 279,059. 2 Claims. (Cl. 64—62.)



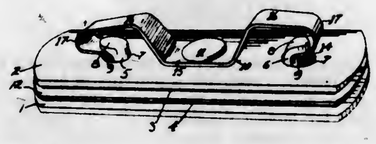
1. A roller bearing assembly comprising a conical raceway; a series of conical rollers arranged substantially close together on said raceway and annularly grooved between their ends; thin, narrow annular retaining means adapted to seat in the grooves of the rollers and maintain them in position on the raceway without interference with their accommodating themselves to the bearing surfaces; and a split retaining ring for keeping the assembled rollers in place removably seated in a groove in the end of said raceway whence the rollers could otherwise be removed.

1,389,386. BALING-WIRE NEEDLE. WILLIAM A. SEYMOUR, Leavenworth, Kans. Filed Aug. 30, 1920. Serial No. 406,816. 2 Claims. (Cl. 100—20.)



1. A wire-engaging needle for baling machines comprising a swinging bar having a wire-engaging, hooked end, and a yielding guard carried by the bar, the guard having a free end overlapping the hooked end to retain the wire in engagement with the hooked end.

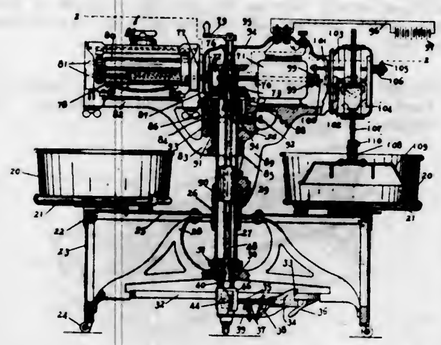
1,389,387. SAFETY-RAZOR-BLADE HOLDER. GEORGE W. SHUGERS, Los Angeles, Calif. Filed Apr. 19, 1920. Serial No. 375,167. 8 Claims. (Cl. 206—16.)



8. A safety razor blade holder comprising an apertured upper member, a studded lower member, and a U-shaped strip pivotally fixed to said apertured member

and having outwardly extending limbs provided with return bends which are adapted to engage the studs of said studded member to resiliently hold said members together.

1,389,388. LAUNDRYING-MACHINE. JOHN H. SIMAT and ALVIN H. SIMAT, Omaha, Nebr. Original application filed Mar. 8, 1920, Serial No. 364,062. Divided and this application filed June 7, 1920. Serial No. 387,211. 4 Claims. (Cl. 68—52.)



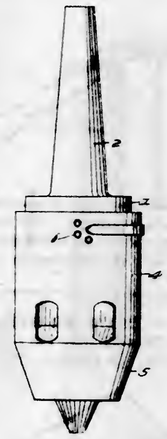
1. A laundrying machine comprising a framework, a hollow support passing centrally up through said frame, a wringer frame swinging about said hollow support, a hollow motor frame also swinging about said support, a motor in said motor frame, gearing driven by said motor, a slidable clutch sleeve associated with and driven by said gearing, a pair of opposed gears normally idle but adapted to be alternately coupled with said clutch sleeve, a shaft passing up through said hollow support and having a part engaging with the lower end of said clutch sleeve whereby to raise and lower the same, a treadle adjustably mounted on said framework, means at the upper end of said shaft above the motor casing for moving the shaft and said treadle in a circular direction, means associated with and operated by said treadle for shifting the shaft longitudinally in the hollow support, and wringer rolls in said wringer frame driven by said gears.

1,389,389. FOOD PRODUCT AND PROCESS OF MAKING SAME. CLARENCE H. SIMPSON, Front Royal, Va. Filed Oct. 28, 1919. Serial No. 333,889. 2 Claims. (Cl. 99—11.)

2. The process of obtaining a food product from fruits, consisting in cooking the fruits, expressing the juice from the cooked fruits, mixing the juiceless residue with liquid to form a semi-liquid mass, discarding from this mass the non-meaty portions so as to retain only the meaty pulp and liquid, adding fruit juice to the meaty pulp and liquid, and boiling the pulp and liquid together with the added fruit juice.

1,389,390. COUNTERSINK-GAGE. HARRY D. SPARLING, Walden, N. Y. Filed July 25, 1919. Serial No. 313,334. 1 Claim. (Cl. 77—73.5.)

The combination with a countersink, having a peripheral slot formed therearound, of a gage member in surrounding relation to the countersink, the gage member being formed with a plurality of holes on diametrically opposite sides formed at varying distances from the working edge, the oppositely disposed holes being arranged in pairs, and a clip member embracing the gage and

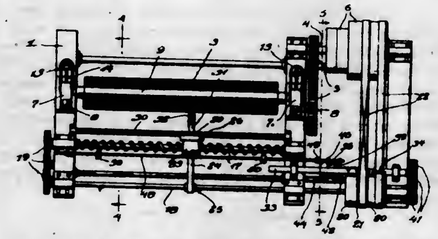


having teats or lugs formed on its ends, which teats or lugs enter the holes and engage in said slot for the purpose specified.

1,389,391. FLOOR-WAX. JOSEPH P. STEIDLE, Wilkes-Barre, Pa. Filed Aug. 4, 1920. Serial No. 401,221. 1 Claim. (Cl. 87—19.)

A wax powder for coating dancing floors, comprising substantially 10 pounds of corn meal, 20 ounces of wax, 2 pounds of paraffin or parawax, and one pound each of borax, boric acid and soapstone.

1,389,392. YARN-WINDING MACHINE. LOUIS STOCKER, Stithton, Ky. Filed July 24, 1920. Serial No. 398,617. 5 Claims. (Cl. 19—27.)

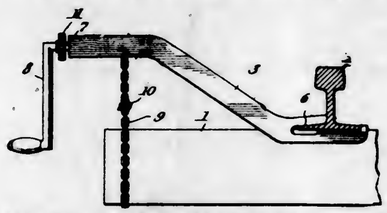


4. A yarn winding machine comprising a reciprocating member, a rotatable wheel carried thereby and having openings therein through which the yarn passes, an annular rack connected with said wheel, a rack bar with which the annular rack engages in the reciprocation of said member, an arm connected with said member and having a guiding eye therein and means for reciprocating said member, such means including a belt driven shaft, and belt shifting means actuated by the movement of the reciprocating member.

1,389,393. ELEVATOR AND HOLDER FOR RAILWAY SLEEPERS OR TIES. HERMAN C. STOLLE, Davenport, Iowa. Filed July 30, 1920. Serial No. 399,980. 3 Claims. (Cl. 254—43.)

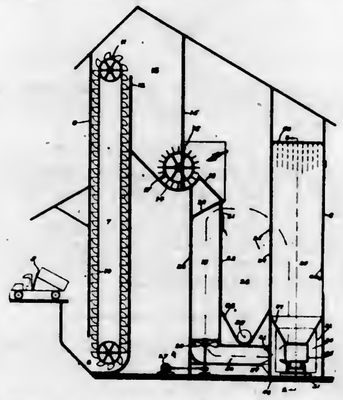
1. A railway tie elevator and holder comprising a main frame having a portion adapted to rest a considerable

distance above a railway tie, and also having a portion shaped to receive and bearing against the bottom and one side of a rail base and against the opposite side of the



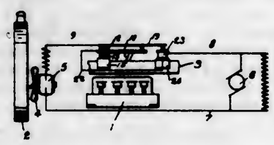
rail web, and means carried by the elevated portion of said frame and adapted to be connected to a tie whereby the tie may be raised and secured in raised position.

1,389,394. FUEL-RECLAIMING APPARATUS. SAMUEL A. STONEBACK, Philadelphia, Pa. Filed Dec. 9, 1920. Serial No. 429,326. 8 Claims. (Cl. 83—54.)



1. A device of the character described including means providing two upright compartments separated by a partition having an opening; means positioned to allow the discharge of material, containing ashes mixed with heavier fuel, down one of said compartments; and means providing an opening for directing a current of air transversely across said fuel compartment in a substantially horizontal path at right angles to the vertical path of said falling material and then directly through said first opening into the other compartment; substantially as described.

1,389,395. COOLING DEVICE FOR EXPLOSIVE-ENGINES. HARVE R. STUART, Springfield, Ohio. Filed Oct. 6, 1916. Serial No. 124,157. 6 Claims. (Cl. 123—171.)



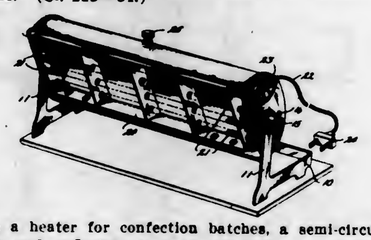
1. In a cooling system for explosive engines, the combination of a fan, a driving member for said fan, clutch devices between said driving member and fan, electrically operated devices for operating said clutch devices, and thermostatic means for controlling said electrically operated devices to start and stop said fan.

1,389,396. RAILWAY-CAR. WILLIAM W. SYLVESTER, Oakland, Calif., assignor to Merle B. Moon, San Francisco, Calif. Filed Oct. 14, 1920. Serial No. 416,950. 5 Claims. (Cl. 105—350.)



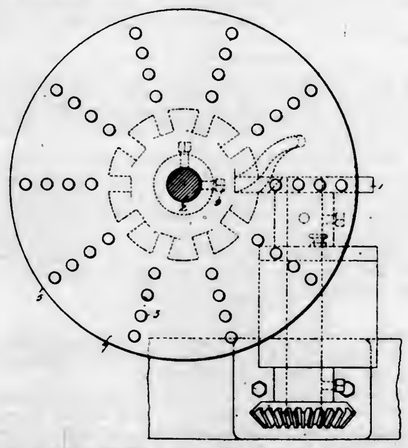
2. A combined tank and box car in which the box is arranged wholly between upright end portions of the tank, which portions are substantially as high as the box part.

1,389,397. HEATER. LOUIS A. TACTIKOS, Greenwich, Conn. Filed Jan. 23, 1920. Serial No. 353,510. 5 Claims. (Cl. 219—34.)



1. In a heater for confection batches, a semi-circular housing and reflector, a rectangular frame supported within the mouth of said housing, heating coils carried by said frame, means for adjustably supporting the housing to permit of the projection of the heat rays therefrom in various angular directions, said means comprising a base having spaced uprights provided with alined apertures, trunnions extending from the end walls of said housing and received by said apertures, and means carried by one of the trunnions adapted to co-act with one of the uprights for retaining the housing in its adjusted positions.

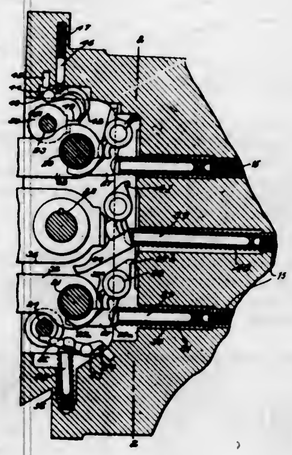
1,389,398. JACQUARD-DRUM. GEORGE C. L. TISCH, Elizabeth, N. J., assignor to Tisch Machine & Tool & Die Works, Inc., Elizabeth, N. J., a Corporation of New Jersey. Filed May 18, 1920. Serial No. 382,426. 3 Claims. (Cl. 66—12.)



1. A jacquard drum comprising a body and a plurality of spaced wheels, each wheel having a plurality of series

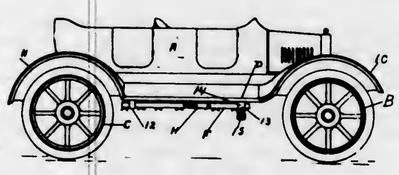
of radiating pin receiving apertures, the apertures in one wheel being in line with the apertures in the adjacent wheel.

1,389,399. FEED-SCREW SUPPORT FOR MACHINE-TOOLS. ALFRED TROSCH, Rochester, N. Y., assignor to Arthur H. Ingle, Rochester, N. Y. Filed Dec. 19, 1919. Serial No. 346,065. 8 Claims. (Cl. 90—37.)



1. A machine tool, comprising a cross rail, a tool holding saddle movably mounted thereon, a shaft operatively engaged with said saddle and journaled at its ends in said cross rail, and an intermediate support for said shaft equipped for clearance with respect thereto on the passage of the saddle.

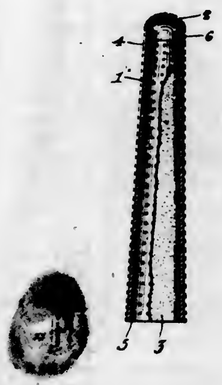
1,389,400. AUTOMOBILE-SKID. LEIGHTON L. TUFTS, Middleton, Mass. Filed June 25, 1921. Serial No. 480,488. 6 Claims. (Cl. 238—14.)



5. A portable skid for motor vehicles made up of rigid parallel channeled metal side bars and rigid metal cross bars channeled at the top and bottom extending crosswise of the side bars and rigidly fixed thereto.

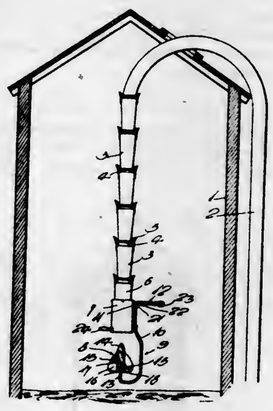
1,389,401. FIBROUS FILTERING-FILM. CHARLES H. VAN NOSTRAND, Orange, and HERMAN E. SCHULSE, Jersey City, N. J.; said Schulse assignor to said Van Nostrand. Filed May 28, 1918. Serial No. 236,995. 3 Claims. (Cl. 210—204.)

1. As an article of manufacture, a filtering film section composed of a filtering film tapering in form, made of fibrous filtering material compressed so as to be of even porosity throughout, and an outer and inner perforated support of the same tapering form, the film and its two



supports adapted to nest upon one another to form a tight joint at the base.

1,389,402. ENSILAGE-DISTRIBUTER. JOHN G. VOGEL, Hampton, Iowa. Filed Mar. 25, 1920. Serial No. 368,554. 6 Claims. (Cl. 193—19.)

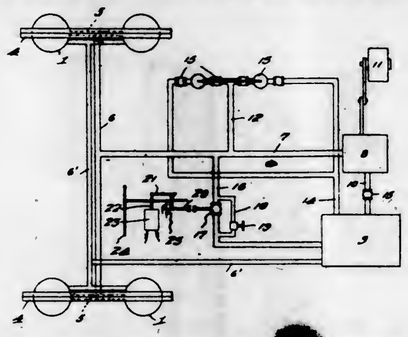


1. In an apparatus of the class described, the combination with a silo, of a flexible ensilage discharge pipe depending into the silo, and a rotatably mounted distributer suspended below and in alinement with the mouth of the pipe so that the ensilage and air current issuing from the pipe will strike and rotate it, this being the sole means of imparting rotary movement to the distributer.

1,389,403. VEHICLE ELEVATING AND SUPPORTING DEVICES. WILLIAM LOUIS WAGNER, Norfolk, Va. Filed Feb. 28, 1920. Serial No. 362,077. 6 Claims. (Cl. 138—9.)

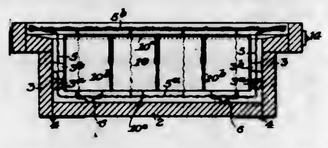
1. An apparatus of the class described comprising lift-

ing jacks for holding the vehicle with its wheels off the floor, means for supplying fluid to said packs to lift the



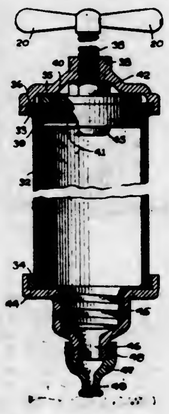
same and electrically operated mea releasing the fluid from the jacks.

1,389,404. REINFORCED CONC CONSTRUCTION. BARCLAY WHITE, Lansdowne, Pa. Filed June 18, 1918. Serial No. 240,616. 5 Claims. (Cl. 72—66.)



3. As a new article of manufacture, a hollow concrete member having integral top, bottom, and side walls, a fibrous supporting shell within the hollow concrete member, and vertically disposed supporting means arranged within said fibrous shell.

1,389,405. REFILLABLE LUBRICATING-CUP. HERBERT H. WILLIAMS, Brooklyn, N. Y. Filed Mar. 10, 1920. Serial No. 364,617. 8 Claims. (Cl. 184—38.)



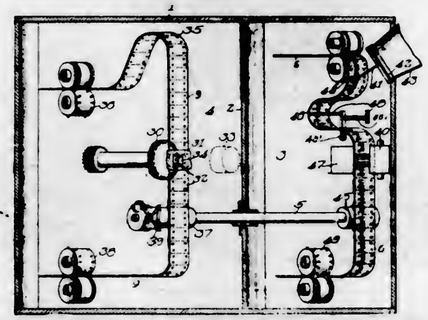
5. In a device of the class described, in combination, a main casing having at its lower end a substantially cylindrical opening, a removable cap mounted at the upper end of said casing, said cap being provided with an internally threaded portion, a container for insertion into said casing having at its upper end a threaded portion for engagement with said threaded portion of said cap and having at its lower end a tubular extension for engagement with said cylindrical opening in said casing, a piston mounted upon said removable cap and having a diameter substantially equal to the inside diameter of said container, and means for advancing said piston into said container.

1,389,406. COTTER-PIN EXTRACTOR. JAMES L. WILLIAMS, Pemberville, Ohio. Filed Feb. 10, 1921. Serial No. 443,848. 2 Claims. (Cl. 81—3.)



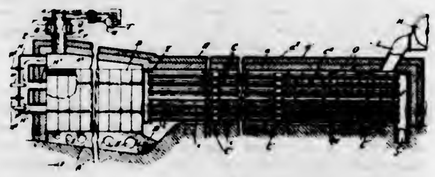
1. A cotter pin extractor including a pair of jaws, the free terminals of which complement each other to embrace the head of the pin, the proximate faces of said jaws being equipped with ribs extending longitudinally of the jaws to grip and retain the cotter pin therebetween when the jaws are operated.

1,389,407. MEANS FOR COÖRDINATING SOUND AND MOTION-PICTURE RECORDS. WILLIAM ERASTUS WILLIAMS, Chicago, Ill. Filed July 10, 1913. Serial No. 778,258. 1 Claim. (Cl. 88—16.2.)



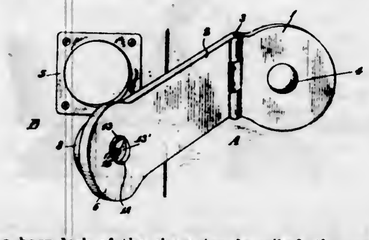
A talking picture apparatus including means for producing a film carrying a sound record a separate film carrying a picture record, and means for placing, simultaneously with the making of the sound and picture records, a series of corresponding identification marks along the marginal traction edges of the films throughout their length, whereby the said two films may be mechanically united at any point throughout their length for synchronous reproduction.

1,389,408. TUNNEL-KILN AIR-HEATER. LOUIS WILPUTTE, New Rochelle, N. Y., assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 20, 1919. Serial No. 339,518. 5 Claims. (Cl. 126—104.)



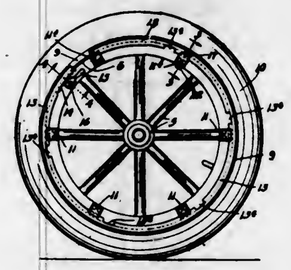
1. Air heating means comprising in combination, a structure built of refractory material and formed with a plurality of parallel combustion chambers and channels extending transversely to said chambers, a group of spaced apart pipes connected to and forming extensions of the combustion chambers, a housing inclosing said structure and pipes and closely surrounding the group of pipes but shaped to form a passage at one side of said structure which is in communication with the inter-pipe space, and a second passage at the opposite side of said structure out of direct communication with said inter-pipe space but connected to the other passage by said channels, said housing being formed with an air inlet at its end remote from said structure and an air outlet leading from said second passage, and means for supplying fuel and air to said combustion chambers.

1,389,409. LOCK. STANLEY J. WITKOWSKI, Detroit, Mich. Filed Oct. 15, 1919. Serial No. 330,843. 1 Claim. (Cl. 70—5.)



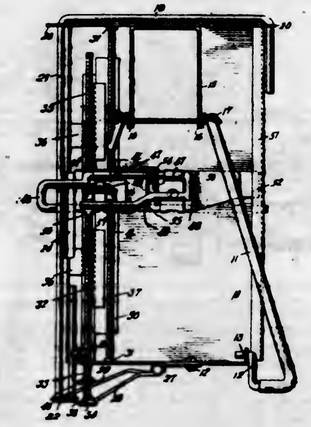
In a hasp lock of the character described, the combination with a plate adapted to be secured to a housing and having a central opening for the passage of a fastening means, of a hasp hingedly connected to said plate, having an enlarged substantially circular head and a keeper with a flanged casing carried by said head and provided with angularly disposed channels and having a central opening adapted to be engaged by the end pin of a key, notched locking bolts slidably disposed in said channels and passing through the sides of said casing, the notches of said locking bolts adapted to be engaged by the opposite edges of a key upon the rotation thereof for projecting said bolts in opposite directions through the walls of said casing into engagement with the keeper.

1,389,410. DEMOUNTABLE-RIM FASTENER. PAUL O. WITTE, Minneapolis, Minn. Filed July 9, 1920. Serial No. 394,993. 6 Claims. (Cl. 301—27.)



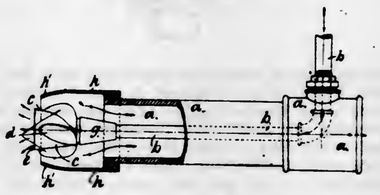
1. The combination with a wheel felly and a demountable rim, of spaced retaining lugs secured to said felly provided with laterally offset outwardly projecting ends, a laterally removable split fastening ring having a vertical body flange adapted to engage behind the said offset projecting ends of said lugs and provided with a flange adapted to engage with the adjacent flange of the demountable rim, under a wedging action when expanded to its limit, and means for expanding and locking said ring in its rim-clamping position, substantially as described.

1,389,411. COPY-HOLDER. ALBERT N. WOODRUFF, New York, N. Y. Filed July 29, 1920. Serial No. 399,672. 4 Claims. (Cl. 120—34.)



4. A device of the character described comprising a writing bed, a rod rigidly carried by said bed, a second rod reciprocatively mounted on the bed, a plurality of pawls mounted on the carriage and adapted to engage said rods to prevent movement of the carriage longitudinally of the bed, a line indicator pivotally mounted on the carriage and projecting to the front of the writing bed, and means comprising an extension of the line indicator said extension lying adjacent the pawls in such a manner that as the line indicator is rocked about its pivotal points, said extension will engage the pawls and cause their disengagement from their respective rods to permit of free movement of the carriage longitudinally of the writing bed in either direction.

1,389,412. LIQUID-FUEL BURNER. DUDLEY WRIGHT, Bankfield, Ulverston, England. Filed Jan. 8, 1917. Serial No. 141,136. 6 Claims. (Cl. 158—77.)

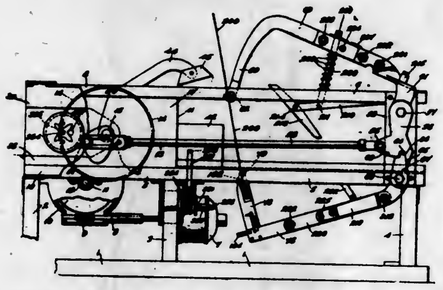


1. In a liquid fuel burner, an air conduit; a fuel atomizing receptacle of tapering configuration, so disposed in relation to said air conduit that its larger end projects beyond the discharge end of said air conduit; serrations formed at the larger end of said receptacle; a fuel supply pipe adapted to deliver fuel to the interior of said receptacle; and means whereby said receptacle may be rotated by gaseous pressure for the purpose of atomizing the fuel.

1,389,413. WIRE-TYING MACHINE. PARVIN WRIGHT, Chicago, Ill. Filed Feb. 7, 1920. Serial No. 356,978. 40 Claims. (Cl. 100—31.)

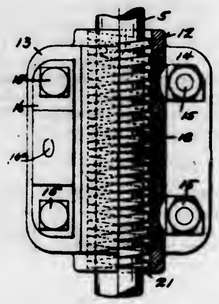
1. In a wire tying machine the combination of means to place a wire across the path of a package to be wired; means to cause the wire to partially encircle said package; means comprising an adjustable pair of opposing needle

arms to cause the wire to completely encircle said package; and means to twist parallel disposed bight portions of said wire together after said package is completely encircled, substantially as described.



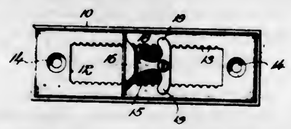
40. In a wire tying machine the combination of means to encircle a box with wire having parallel bights located parallel to the box and comprising a wire twisting means; means to swing said twisting means to and from the bights of wire to be twisted; and power means for actuating said twisting means, substantially as described.

1,389,414. BORE-HOLE PUMP. JOHN A. YEATMAN, Oakland, Calif., assignor to United Iron Works, Oakland, Calif., a Corporation of California. Filed Mar. 13, 1919. Serial No. 282,310. 1 Claim. (Cl. 64—48.)



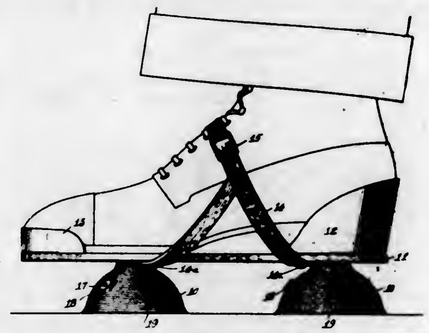
The combination with a bore hole pump and a drop pipe through which the water pumped passes, of a drive shaft for said pump disposed within said pipe, bearing shells surrounding said shaft, helical bearing members having spaced convolutions arranged in said shells and surrounding said shaft, diametrically disposed angle irons arranged longitudinally in said pipe, and means securing said bearing shells to said angle irons.

1,389,415. SHADE-BRACKET. ALEXANDER ZEBROWSKI, Stamford, Conn. Filed Feb. 9, 1921. Serial No. 443,735. 4 Claims. (Cl. 156—24.)



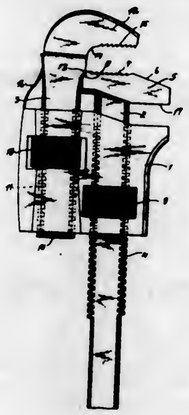
3. A shade bracket comprising a base plate having an opening formed therein, opposite side walls of said opening being relatively divergently beveled from front to rear of the plate, said side walls being provided with spaced notches, and a shade hanger element slidably associated with said base plate and including an inherently resilient member normally engaging certain of said notches whereby the element is prevented from sliding and disengageable from said notches by pressure thereon.

1,389,416. NON-SLIP DEVICE. JOSÉ GARZA ZERTUCHE, Mexico, Mexico. Filed Aug. 13, 1920. Serial No. 403,248. 5 Claims. (Cl. 36—59.)



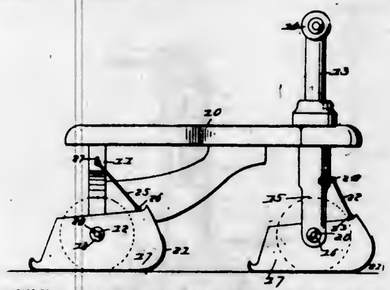
1. As an article of manufacture, a non-slip device comprising a resilient suction cup, and an article carrying said cup and adapted to secure it in position, said cup having a vent opening and said article presenting a surface into contact with which the vented portion of the cup moves when collapsed, for the closing of said vent opening.

1,389,417. MULTIPLE WRENCH. TONY ZUKOWSKI, Bristol, Conn. Filed Aug. 23, 1920. Serial No. 405,426. 3 Claims. (Cl. 81—176.)



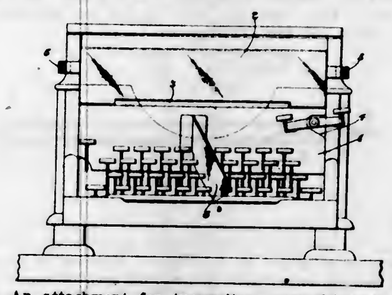
1. A device of the class described comprising a frame, a pair of threaded stems slidable therein, one of said stems being provided with a jaw having its lower edge flat and its upper edge serrated, the other of said stems having a serrated jaw adapted to coact with said first-named serrated jaw, a spring normally urging one of said stems toward the other, there being a hump on the side of one of said stems adapted to contact with the edge of said jaw on the other of said stems when said jaws are tightened.

1,389,418. CHILD'S COASTER. PAUL A. ARNER, Allentown, Pa. Filed Sept. 14, 1920. Serial No. 410,088. 1 Claim. (Cl. 208—165.)



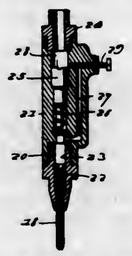
A child's coaster consisting of a frame having a platform or seat, a depending rear hanger and a steering post provided at its lower end with a fork, said hanger and fork having transverse spindle portions, runners having bearings for the reception of said spindles and flexible anchoring means consisting of straps attached at their lower extremities to the forward ends of the runners and provided at their free ends with cotter pins for removable engagement with sockets in said frame.

1,389,419. ATTACHMENT FOR TYPEWRITERS. ELLA E. BRIGGS, St. Louis, Mo. Filed Dec. 29, 1920. Serial No. 433,830. 4 Claims. (Cl. 197—105.)



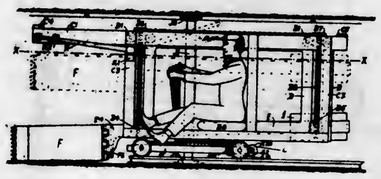
1. An attachment for typewriters, comprising a supporting member arranged to bear against the frame of the machine above and behind the keyboard, releasable spring clips supported by said member, and arranged to engage the frame of the machine, and a partition supported by said supporting member extending obliquely downwardly and forwardly between the rows of keys.

1,389,420. WHEEL-FLANGE OILER. WILLIAM T. D. CAMPAIGNE, Spooner, Wis. Filed Oct. 21, 1919. Serial No. 332,210. 2 Claims. (Cl. 184—3.)



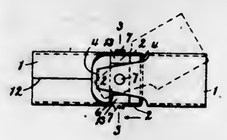
2. A wheel flange oiler having a nozzle provided with an extensible discharge tip having a follower head, a casing with which the discharge tip is removably connected, the said casing being provided with a longitudinal bore, a spring actuated piston valve housed in said bore, the casing being formed with a by-pass communicating with the bore at opposite ends of the piston valve and adapted to be closed at one end by said valve, a needle valve carried by said casing and controlling the said by-pass, and means for communicating fluid pressure to the casing to actuate the valve to open said by-pass as herein shown and specified.

1,389,421. POWER-SHOVEL FOR USE IN MINES TO LOAD COAL AND ORE INTO CARS. CLYDE S. CORRIGAN, Norwood, Ohio. Filed July 15, 1920. Serial No. 396,391. 16 Claims. (Cl. 37—14.)



1. In a power shovel the combination of a frame adapted to turn on a vertical hub, a shovel mechanism adapted to move horizontally and vertically within said frame, a substantially vertical hub centrally positioned and pivotally attached within said frame and shovel mechanism, jack means within said hub adapted to make rigid connection with a mine roof and floor, whereby said hub may be used as a fulcrum against which said shovel mechanism may exert force to perform work.

1,389,422. UNIVERSAL JOINT. GEORGE V. CURTIS, West Springfield, Mass. Filed Dec. 17, 1920. Serial No. 431,319. 12 Claims. (Cl. 64—102.)

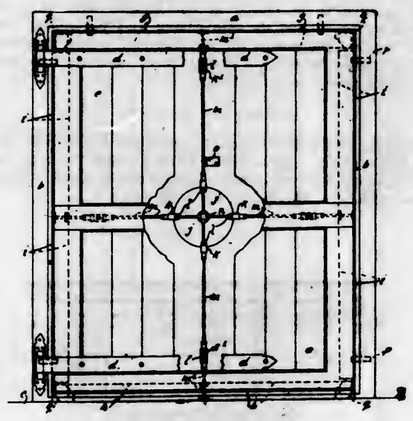


12. As an improved article of manufacture, a universal joint comprising shaft couplers, each having arms connected by cross-pieces, which arms extend inwardly beyond the plane of the outer ends of the arms on the other coupler, and an intermediate member articulated to all of said arms, said couplers being constructed to enable the arm- and cross-piece-forming parts of one to be interengaged with the corresponding parts of the other, before being bent to form.

1,389,423. REFRIGERATOR-DOOR. ALBERT CHARLES DAVIS, Bootle, England. Filed Feb. 24, 1919. Serial No. 279,023. 1 Claim. (Cl. 20—16.)

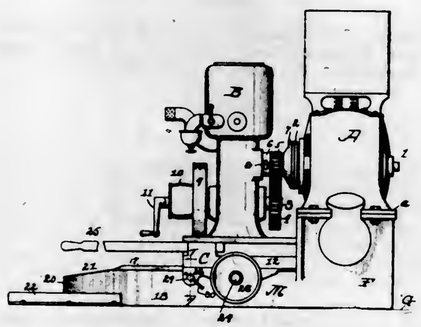
The combination with a doorway and door therefor, of corner pieces fitted in said doorway, battens carried by the edges of said door, said battens having the ends

thereof cut away so as to overlap and beveled so as to engage the corner pieces of said doorway, and means



carried by said door adapted for simultaneously moving said battens to engage walls of said doorway and the corner pieces thereof.

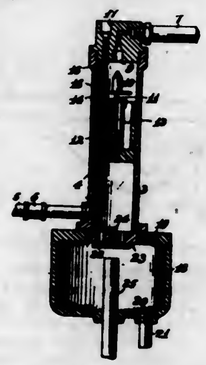
1,389,424. POWER-PLANT MOUNTING. FRANK H. DE BRUN, Chicago, Ill., assignor to The Necedah Manufacturing Corporation, Necedah, Wis., a Corporation of Wisconsin. Filed July 29, 1920. Serial No. 399,957. 6 Claims. (Cl. 248—30.)



1. The combination with a stationary member provided with a carriage mounting, of an engine carriage adapted to support the engine independently of said stationary member and also adapted to be supported upon said mounting, and means for locking the carriage and the stationary member together.

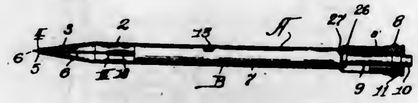
1,389,425. SUCTION-FEED. THOMAS A. EDISON, Jr., Burlington, N. J. Filed Jan. 14, 1918. Serial No. 211,887. 13 Claims. (Cl. 158—36.)

1. In suction feeds for liquid fuel, the combination of a fuel tank or receptacle into which successive charges of the liquid fuel are to be drawn by the suction of the engine, and means actuated by suction whose action is determined by the height of the liquid in the re-



ceptacle for entirely cutting off the suction with a snap action and breaking the partial vacuum to allow the charge to recede, substantially as set forth.

1,389,426. PENCIL. HOWARD L. FISCHER, St. Paul, Minn. Filed Dec. 17, 1918. Serial No. 267,206. 7 Claims. (Cl. 120—17.)

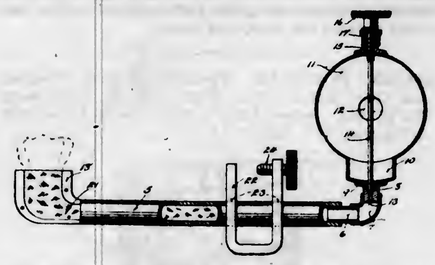


5. In a pencil having a lead ejecting means, a releasing means for said lead ejecting means to allow the ejecting means to be moved in a backward direction, a slidable lead holding socket connected to said ejecting means and means for automatically setting and rigidly holding, against backward movement, said socket in receiving position to receive a new marking lead when said ejecting means is set in extreme backward position, said holding means diminishing in holding power, as said ejecting means is moved in a forward direction in said pencil, so that when said lead holding socket engages the inner surface of said pencil barrel, said ejecting means can slide in said socket with only a slight degree of friction or holding force from said holding means bearing against said ejecting means, said ejecting means forming an abutment for the rear end of the marking lead held in the socket to rigidly hold the lead against backward movement when held in writing position.

1,389,427. KINDLING-BURNER. CHARLES FLINT, Menominee, Mich. Filed Sept. 2, 1919. Serial No. 321,152. 1 Claim. (Cl. 158—10.)

A burner of the class described comprising a tubular shank member, a laterally disposed burner head carried at one end of the shank member and having a long narrow slot for receiving a flat wick, wick packing disposed in said burner head and extending into the adjacent portion of the shank member, one side of the burner head being removable to permit the work to be readily inserted, a supply tank carried by and upstanding from the other end of the shank member, means for controlling flow of liquid from said supply tank, said shank member

being oval in cross section, a U-shaped bracket member provided with apertures in the intermediate portions of



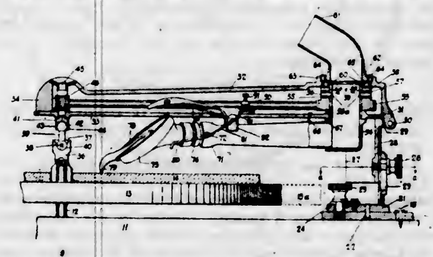
its legs which snugly receive the shank member, and a clamping screw threaded in the end portion of one of the legs of the bracket member.

1,389,428. CABLE-PUMP. GEORGE GARTLING, Los Angeles, Calif. Filed Aug. 18, 1919. Serial No. 318,401. 8 Claims. (Cl. 103—6.)



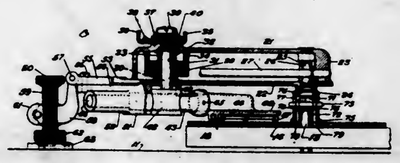
1. In a pump of the character described, an endless cable, pins in said cable and buckets secured over said pins.

1,389,429. RECORDING AND REPRODUCING ATTACHMENT FOR PHONOGRAPHS. WILLARD H. GILMAN, New York, N. Y., assignor, by mesne assignments, to John A. McVickar, New York, N. Y. Filed Mar. 8, 1920. Serial No. 364,317. 8 Claims. (Cl. 274—13.)



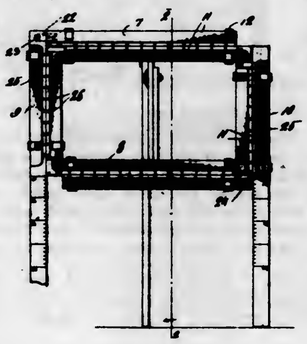
1. In a phonograph attachment a turntable mounted for rotation, a mechanism secured to the case of said phonograph and extending over said turntable, said mechanism operably connected with the stem of said turntable and driving a horizontal gear, a vertical voice tube centered in said gear and held in engagement therewith by spring friction, said voice tube having a horizontal arm terminating in a diaphragm head, substantially as described.

1,389,430. RECORDING AND REPRODUCING MECHANISM FOR PHONOGRAPHS. WILLARD H. GILMAN, New York, N. Y., assignor, by mesne assignments, to John A. McVickar, New York, N. Y. Filed Oct. 13, 1919, Serial No. 330,464. Renewed July 19, 1921. Serial No. 485,847. 18 Claims. (Cl. 274—13.)



2. In a mechanism of the class described, the combination with a phonograph turntable of a vertical shaft and a friction clutch, said shaft driven from the stem of said turntable through said friction clutch, a tone arm carried by said vertical shaft across the face of said turntable and means for releasing said friction clutch by the movement of said tone arm.

1,389,431. CURTAIN-STRETCHER. JOSEPH BARRY, Sharon, Pa. Filed May 7, 1920. Serial No. 379,576. 7 Claims. (Cl. 45—24.)

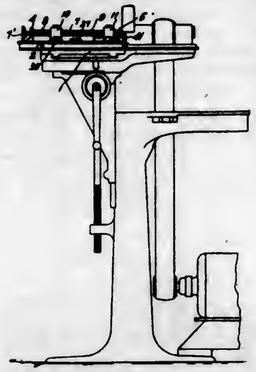


1. A curtain stretcher comprising a frame including longitudinally adjustable longitudinal and transverse members, each member consisting of a pair of bars longitudinally adjustable, said members being pivotally connected together at a pair of diagonally disposed corners of the frame, and said members being detachably connected together at the other pair of diagonally disposed corners, whereby the coacting longitudinal members may be disposed beside their coacting transverse members when folded.

1,389,432. AUTOMATIC GAGE. OSCEOLA DE LOS BRAINARD, Great Falls, Mont. Filed June 4, 1920. Serial No. 386,657. 11 Claims. (Cl. 29—69.)

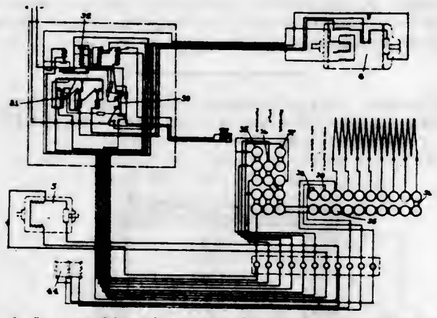
1. A device of the character described, comprising a copy support, means registering with the column lines of a copy on the support, a saw, means for projecting slugs

beyond the support for engagement with the saw, and means compelling the movement of the slugs a distance



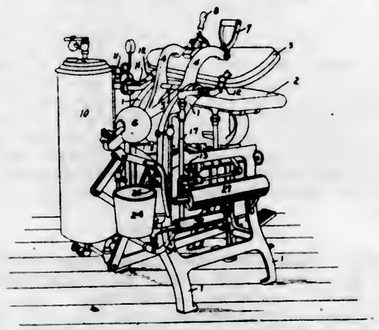
from their center to saw line exactly half the distance of movement imparted to the column registering means.

1,389,433. DRIVING MECHANISM FOR AUTOMATIC MACHINES. JOHN P. BROPHY, Cleveland, Ohio. Filed Oct. 19, 1916. Serial No. 126,543. 7 Claims. (Cl. 172—239.)



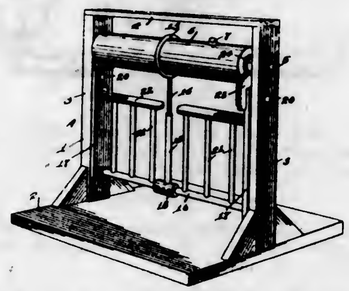
1. In a machine of the class described, the combination of a constant speed cam shaft, a spindle, a variable speed motor, a mechanical two-speed transmission means connecting said motor and said spindle, and means operable by said cam shaft and adapted to automatically engage either of the two speeds in said transmission means.

1,389,434. STEAM-CONDENSER FOR CLOTHES-PRESSES. JACOB BUFF, Jersey City, N. J. Filed Apr. 19, 1919. Serial No. 291,395. 3 Claims. (Cl. 68—9.)



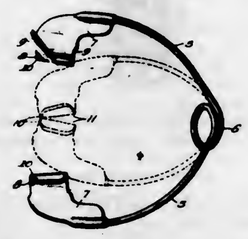
1. In a clothes press, the combination with a buck, a pressing head, a boiler, means for supplying steam from the boiler to the buck and pressing head, and a suction pipe connected with the buck, of a condenser, a connection between the condenser and suction pipe, a pump, a connection between the pump and condenser, and a connection between the pump and boiler.

1,389,435. HOG-OILER. CHARLEY BURNETT, Washington Court House, Ohio. Filed Sept. 15, 1919, Serial No. 323,931. Renewed Feb. 1, 1921. Serial No. 441,676. 3 Claims. (Cl. 119—157.)



3. A stock oiler comprising a supporting structure, a fluid containing tank tiltably mounted in connection with said structure, a rubbing frame pivotally connected with said structure beneath said tank, means actuated by the oscillation of said frame to impart relatively multiplied rotative movements to said tank, a member surrounding said tank and defining a supplemental fluid receiving chamber having communication with the interior of said tank, the upper portion of said member having a fluid discharge port formed therein, and a telescopic spout structure coöperatively carried by said tank and frame and situated to receive the contents of said chamber by way of said port upon the tilting of said tank.

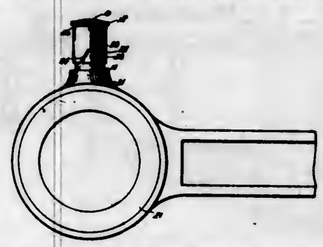
1,389,436. RETRACTOR. WILLIAM J. CAMERON, Chicago, Ill. Filed Apr. 28, 1919. Serial No. 293,300. 3 Claims. (Cl. 128—17.)



1. A dental retractor comprising two arms normally resiliently diverging and bowed to one side whereby when the retractor is positioned in the mouth of the patient the said arms will lie substantially snugly against the cheek of the patient thereby leaving the mouth of the patient unobstructed.

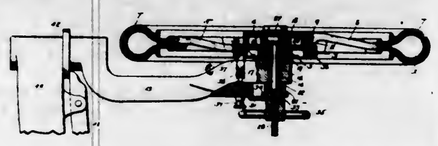
1,389,437. GREASE-CUP. THOMAS C. DAVENPORT, New Haven, Conn. Filed July 2, 1920. Serial No. 393,617. 1 Claim. (Cl. 184—45.)

A device of the character described comprising in combination with a connecting rod, a grease receptacle formed integral with the connecting rod and communicating with a bearing through a passage formed in the connecting rod, a cover for said grease receptacle, said cover comprising a sheet metal member formed with an integral head of larger diameter than the diameter of the cover, a closing plate adapted to be placed within the cover and formed with a reduced portion adapted to be received within the open end of the grease receptacle, a coil spring secured at one end to said closing plate and having its other end lying within the groove formed by the enlarged head portion of the cover, said spring being maintained



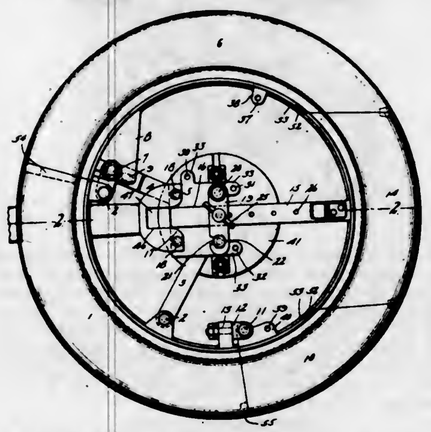
under pressure to retain the reduced portion of the closure plate within the open upper end of the grease receptacle, and means for securing said cover in position upon the grease receptacle.

1,389,438. COLLAPSIBLE CORE AND CHUCK. PETER DE MATTIA, Clifton, N. J. Filed June 8, 1920. Serial No. 387,413. 14 Claims. (Cl. 154—9.)



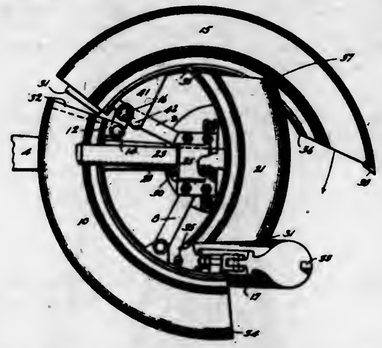
1. A collapsible core comprising a plurality of segmental core sections, independent supports for each section, and pivotal connections between the core sections and their supports permitting movement of the core sections into and out of operative continuity in a direction transverse to the plane of the core sections out of said plane.

1,389,439. COLLAPSIBLE CORE. PETER DE MATTIA, Clifton, N. J. Filed June 8, 1920. Serial No. 387,414. 5 Claims. (Cl. 154—9.)



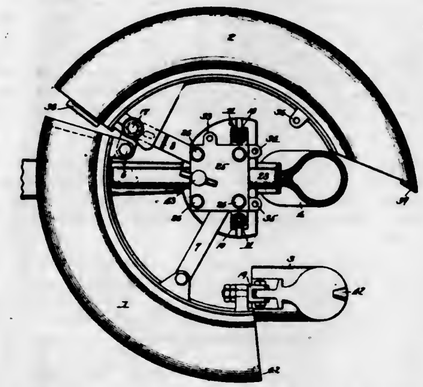
1. A collapsible core comprising a plurality of segmental sections, one of said sections being a key section, a shank carried by said key section, a chuck supporting said sections, a guideway in said chuck to receive the shank of the key section, and a brace bar spanning the guideway at its rear end.

1,389,440. COLLAPSIBLE CORE. BARTHOLD DE MATTIA, Clifton, N. J. Filed June 8, 1920. Serial No. 387,415. 4 Claims. (Cl. 154—9.)



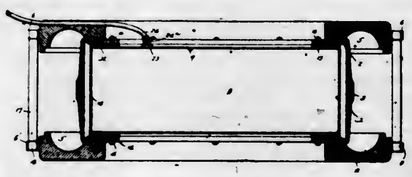
1. A collapsible core comprising a plurality of segmental sections, one of said sections being a key section, and means to impart to the key section a radial movement into and out of a position of operative continuity obliquely to the plane thereof.

1,389,441. COLLAPSIBLE CORE. BARTHOLD DE MATTIA, Clifton, N. J. Filed June 8, 1920. Serial No. 387,416. 5 Claims. (Cl. 154—9.)



1. A collapsible core comprising a plurality of segmental sections, including a key section, means for moving the key section into and out of operative continuity in the plane of the core, and means for moving the key section when retracted about a radial axis so as to position it in a plane at right angles to the plane of the core.

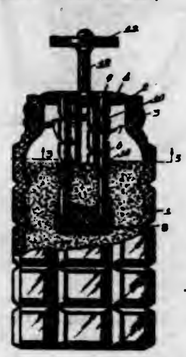
1,389,442. APPARATUS FOR AND PROCESS OF MAKING PNEUMATIC TIRES. BARTHOLD DE MATTIA, Clifton, N. J. Filed Sept. 17, 1920. Serial No. 410,920. 19 Claims. (Cl. 18—19.)



1. In an apparatus for manufacturing pneumatic tires, an expanding device comprising opposed heads and an

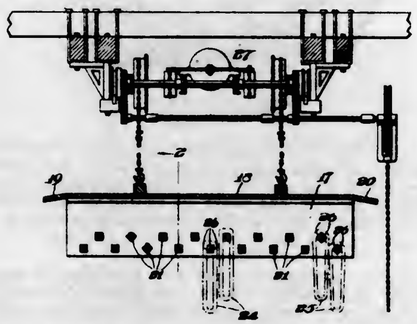
elastic wall hermetically connected thereto, the heads being freely movable toward and from each other, and means for admitting and confining a fluid charge within said expanding device, said fluid charge filling the chamber while the heads are moved away from each other and of sufficient volume to expand the elastic wall when the heads are moved toward each other.

1,389,443. CONDIMENT-HOLDER. DAVID FREEDLINE, Brooklyn, N. Y. Filed Sept. 7, 1920. Serial No. 408,625. 3 Claims. (Cl. 65—45.)



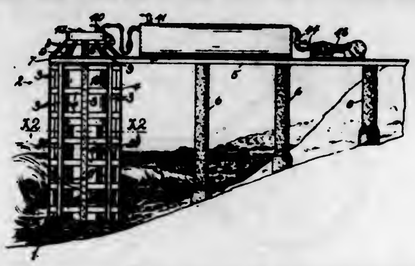
1. The combination with a condiment holder, and a perforated cover thereon, of an ejector comprising rods located in the perforations of the cover, said rods having a staggered arrangement of condiment receiving pockets therein, an agitator secured to the inner ends of the rods and constituting a weight, and a disk spaced above the cover and limiting the outward movement of the ejector.

1,389,444. DYEING-MACHINE. JAMES A. GRUNDY, Philadelphia, Pa., assignor to John Bromley & Sons, Incorporated, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 25, 1921. Serial No. 455,421. 5 Claims. (Cl. 8—19.)



1. A machine for dyeing yarns and the like, comprising in combination an open topped container, rectangular in contour, for dye liquor, an interior tank of equal width but lesser length mounted within and below the plane of the open top of said container and in spaced relation thereto at each end and at base, said interior tank having a perforated bottom wall, perforated tubular means within said container arranged to apply fluid pressure to circulate the contained dye liquor, and vertically movable means to suspend yarns and the like in said interior tank, said means including parts adapted, when in lowered position, to rest on the edges of said container and close the same without closure of the interior tank relatively thereto.

1,389,445. OCEAN COMPRESSED-AIR POWER. CHARLES N. HAHN, Lima, Ohio. Filed Nov. 3, 1920. Serial No. 421,569. 24 Claims. (Cl. 230—82.)

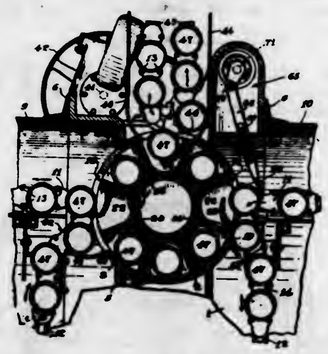


1. In an apparatus of the class described, a base, a cage secured to said base, a stationary cylinder secured to said cage, a reciprocating cylinder mounted in said cage, and telescoping with said stationary cylinder, and means for applying a liquid seal between the reciprocating cylinder and both sides of the stationary cylinder.

1,389,446. ALLOY. HENRY HECHT, New York, and David G. Black, Brooklyn, N. Y., assignors to Alloys & Products, Inc., New York, N. Y., a Corporation of New York. Filed June 12, 1920. Serial No. 388,589. 4 Claims. (Cl. 75—1.)

1. An alloy containing copper, 25 to 40 per cent.; nickel, 20 to 40 per cent.; chromium, 6 to 12 per cent.; and iron, 25 to 40 per cent.

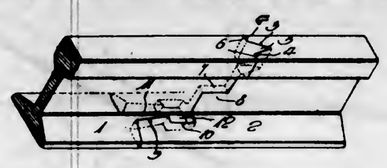
1,389,447. CONTAINER-TRANSFER FOR PRESSURE COOKERS AND COOLERS. AXEL JOHNSON, Oakland, Calif. Filed June 2, 1920. Serial No. 385,940. 26 Claims. (Cl. 126—272.)



1. In combination with a pair of endless conveyers and an endless article feed conveyer arranged with portions of said conveyers, lying adjacent to each other, a mechanism interposed in coöperative relation with said conveyers for receiving an article from said feed conveyer and for delivering the same to one of said pair of conveyers and for receiving the article delivered to said conveyer and for subsequently delivering the same to the other of said pair of conveyers.

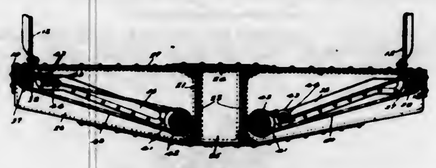
1,389,448. RAIL-JOINT. HARRY O. KAMMERDEINER, Echo, Pa. Filed Jan. 18, 1921. Serial No. 438,244. 4 Claims. (Cl. 238—235.)

4. A rail joint comprising adjoining rail ends having interlocking treads and their web portions meeting in edge contact, the base portion of one rail end having a longitudinally extending downwardly tapered passage leading to an enlarged pocket and the second rail end having its



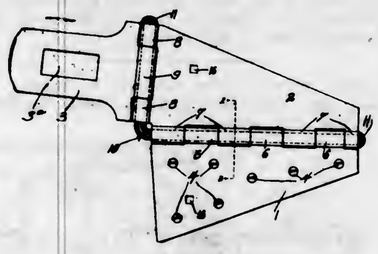
base provided with side wings fitting into and filling said pocket, and a longitudinally extending downwardly tapered rib fitting into said passage.

1,389,449. DUMPING-DOOR ACTUATOR. ANDREW KUBIK, Michigan City, Ind. Filed Sept. 28, 1920. Serial No. 413,360. 1 Claim. (Cl. 105—298.)



A car comprising a bottom having a plurality of spaced openings upon each side of its longitudinal center, hinged doors for closing the openings, a transversely movable shaft located below the doors at each side of the longitudinal center line and engageable with the doors, semicircular clamping plates secured upon the shafts, combined clamping and connecting ears extending from said plates upon opposite sides of the shafts, chains movable transversely beneath the car and having their opposite ends connected to said ears and means for operating the chains to move the shafts and actuate the doors.

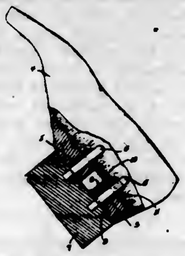
1,389,450. HASP. LEO KULES, Mount Washington, Pa. Filed Nov. 19, 1920. Serial No. 425,170. 5 Claims. (Cl. 292—282.)



1. In a hasp, a base plate, a body plate at one side of the base plate, a securing plate at one end of said body plate, the securing plate and the body plate, and the body plate and the base plate, being provided with interengaging sleeves, and a single pintle rod secured through all of said sleeves.

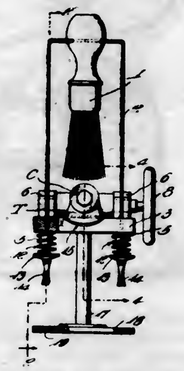
1,389,451. SHOE-LAST. WILLIAM P. MCLAUGHLIN, Bristol, R. I., assignor to National India Rubber Company, a Corporation of Rhode Island. Filed Dec. 20, 1919. Serial No. 346,364. 3 Claims. (Cl. 12—139.)

1. The combination with a hollow last having a bore through its wall, and a socket member projecting through the bore into the interior of the last and having yielding pin engaging members, of a last support having a pin



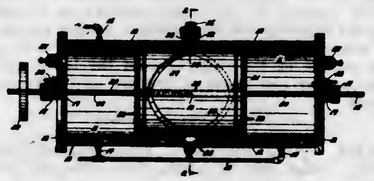
of uniform diameter throughout adapted to be yieldingly engaged by said members.

1,389,452. SQUEEZER FOR COLLAPSIBLE TUBES. THOMAS HARRIS MARTIN, Columbus, Ohio. Filed Feb. 5, 1920. Serial No. 356,539. 4 Claims. (Cl. 221—60.)



1. In a device for compressing and forcing the entire contents from a collapsible tube, a support including a horizontal plate provided with a substantially flat upper face and with oppositely disposed apertures, bearing blocks including hollow internally screw-threaded shanks extending through said apertures, headed adjusting screws threaded in said shanks, coiled springs surrounding said screws and shanks between the plate and heads of the screws, permitting yielding of the bearing blocks, a combined pressure and feed roller carried by said bearing blocks, means for connecting the tube to the roller, and means for imparting rotation to said roller.

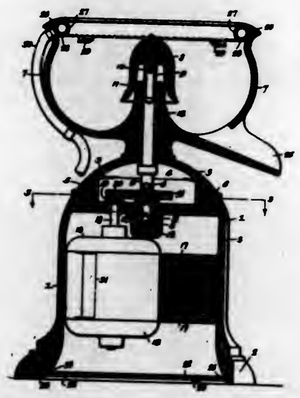
1,389,453. INTERNAL-COMBUSTION MOTOR. PAUL F. MOORE, Carneys Point, N. J. Filed Dec. 2, 1919. Serial No. 341,908. 1 Claim. (Cl. 123—61.)



In an internal combustion engine, a cylinder, a rotatable shaft passing through the cylinder and having a squared portion co-extensive with the length of the

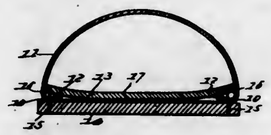
cylinder, a gas inlet adjacent each end of the cylinder, a gas outlet arranged centrally of the cylinder, a piston mounted to reciprocate within the cylinder and having a squared longitudinally disposed bore through which the squared portion of the shaft passes, said piston having a continuous spiral-like channel formed in the periphery thereof and extending in close proximity to the ends of the piston, a tubular projection formed on the cylinder midway thereof, a pin arranged within the projection and extended within the cylinder, a roller carried by the inner end of the pin and operating in said channel to cause the piston to rotate within the cylinder, and said pin having a longitudinal oil passage for lubricating the parts as described.

1,389,454. CITRUS-JUICE EXTRACTOR. WILLIAM M. MURPHY, Glenside, Pa. Filed Sept. 6, 1919. Serial No. 322,102. 2 Claims. (Cl. 100—49.)



2. In a juice extractor having a base; a bowl mounted on the base; an extractor head located in the bowl; and means for rotating said head; the combination of a water supply pipe near the upper edge of the bowl for supplying water to the bowl.

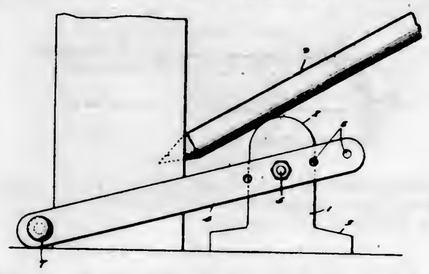
1,389,455. SHOE. HYMAN MUSKIN, Baltimore, Md. Filed Feb. 5, 1920. Serial No. 356,375. 2 Claims. (Cl. 12—142.)



1. The method of constructing a shoe which consists in stitching the marginal edge of the vamp to a flexible lining or stay, turning the camp, applying a sole to the exterior surface of the lining or stay in overlapping marginal relation with the adjacent portion of the vamp and stitching the marginal portion of the sole to the vamp outside of the seam between the latter and said lining or stay and inside of the rise of the vamp from the sole.

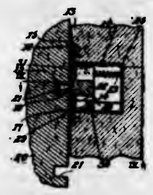
1,389,456. POST-PULLER. NELS PETERSON, Delano, Calif. Filed Apr. 6, 1920. Serial No. 371,571. 1 Claim. (Cl. 254—31.)

A device of the class described comprising a fulcrum member having a body part and a rounded upper end, a base being wider and longer than said body part, arms adjustably connected to each end of the body part, a bolt connecting the latter to the said arms, the former



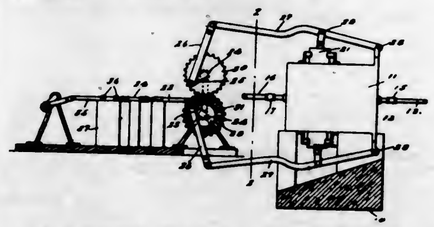
engaging openings formed in said arms, a sleeve carried by the outer ends of the arms for spacing the latter, means for connecting said outer ends together.

1,389,457. AUTOMATIC SAFETY WINDOW AND SCREEN LOCK. JOHN D. PILTZ, Detroit, Mich. Filed Sept. 25, 1920. Serial No. 412,687. 3 Claims. (Cl. 292—15.)



1. A sash locking means including a casing adapted to be countersunk in a window frame, a spring projected follower reciprocable in said casing and having a pair of bolts extending outwardly therefrom, anti-friction rollers journaled upon the free ends of said bolts, a cover plate for the casing having slots through which said bolts slidably project, guiding pins rigidly attached to the back of the casing and slidably extending through said follower, said follower being provided with longitudinal grooves in the upper and lower faces thereof, and longitudinal ribs projecting inwardly from the casing and slidably fitting in said grooves.

1,389,458. WATER-PUMP. ROBERT L. PURNELL, Red Level, Ala. Filed June 18, 1920. Serial No. 389,921. 2 Claims. (Cl. 103—62.)



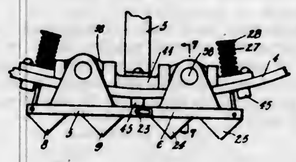
1. In a pumping mechanism including a plurality of cylinders and pistons operating therein, operating means comprising a lever for each piston pivoted at one end and pivotally connected with the piston intermediate its ends, a pair of superimposed shafts having a plurality of corresponding crank portions connected with the other end of the respective levers, gear connections between said shafts whereby to effect simultaneous rotation thereof in opposite directions, and means for imparting step by step rotation to one of the shafts.

1,389,459. BELT-BUCKLE. SAMUEL ROSENTHAL, New York, and SAMUEL D. BRIGHTMAN, Brooklyn, N. Y. Filed Dec. 29, 1920. Serial No. 433,894. 2 Claims. (Cl. 24—194.)



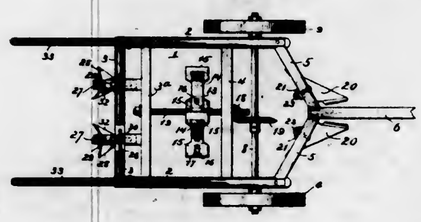
1. In a belt buckle, a plate, flanges at the sides of the plate, guards extending inwardly from the flanges, lugs carried by one end of the guards, said flanges having longitudinal slots therein, a plate slidable in the slots, means for clamping one end of a belt to the slidable plate, means for clamping the other end of the belt against the first-mentioned plate and coiled springs connecting the lugs and the second-mentioned plate and located between the guard and the belt.

1,389,460. TRACTION-WHEEL. GEORGE H. SCANLAN, New York, N. Y. Filed Apr. 24, 1920. Serial No. 376,280. 3 Claims. (Cl. 305—13.)



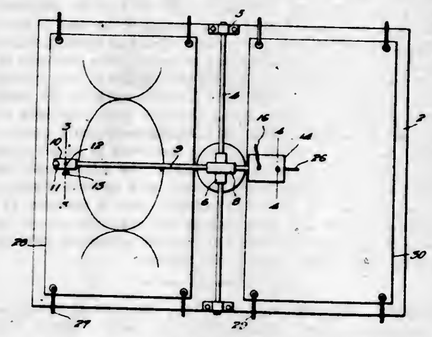
1. A device of the character described comprising a rim, a plurality of tread sections, a sliding and pivotal connection between each pair of tread sections, means for pivotally connecting said tread sections to said rim so as to swing in two directions at right angles to each other, and resilient means for resisting said swinging movement.

1,389,461. COMBINED COTTON CHOPPER AND CULTIVATOR. JAMES HENRY SMITH, Saline, La. Filed June 30, 1920. Serial No. 393,054. 4 Claims. (Cl. 97—46.)



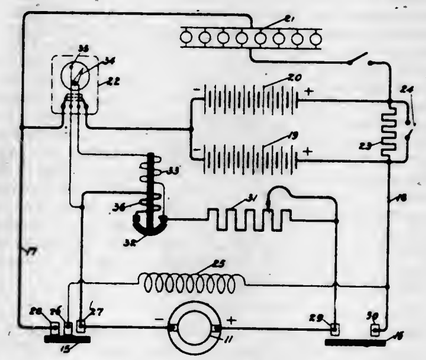
1. An implement of the character described comprising a wheeled frame having converging forward portions, forward plows adjustably connected with the respective converging portions of the frame, said plows being reversely disposed relative to each other, plows spaced apart at the rear end of the frame, and means adjustably connecting said last mentioned plows with the rear end of the frame in a manner to permit adjustments of said plows in directions at right angles to each other.

1,389,462. WOOD-CARVING DEVICE. EARL RUSSELL SPREADBURY, Saugus, Mass. Filed Apr. 10, 1920. Serial No. 372,830. 4 Claims. (Cl. 90—13.1.)



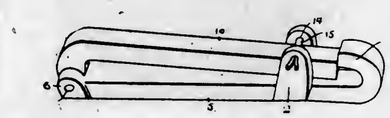
1. A base, a transverse shaft thereon, a slide on the shaft, a socket swiveled to the slide, a rod passing through the socket, a stylus on one end of the rod, and a motor driven chuck on the other end of the rod.

1,389,463. SYSTEM OF ELECTRICAL DISTRIBUTION. WILLIAM A. TURBAYNE, Niagara Falls, N. Y., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y., a Corporation of New York. Filed Nov. 15, 1915, Serial No. 61,588. Renewed Jan. 7, 1921. Serial No. 435,760. 18 Claims. (Cl. 171—314.)



9. In a system of electrical distribution, a generator, a pair of storage batteries and a lamp circuit, one of which batteries is adapted to regulate the lamp circuit while the other battery is being charged, and means responsive to the total state of charge of both batteries for controlling the output of said generator.

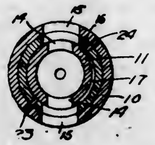
1,389,464. CHAIN-FASTENER. JOHN M. WATKINS and FRED ANDERSON, Montrose, Colo. Filed May 3, 1919. Serial No. 294,618. 1 Claim. (Cl. 24—241.)



A connecting link for chains comprising a body having a beak at one end with its terminal squared, the other

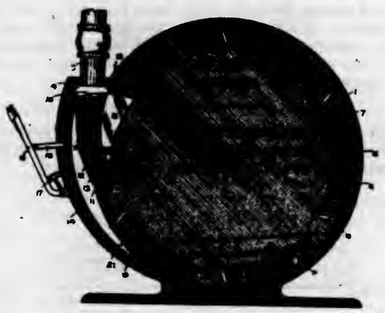
end thereof being bifurcated and the furcations provided with a pair of laterally extending apertured ears on the same side of said body as said beak, having another pair of laterally spaced apertured ears extending in the same direction as said first mentioned pair at a point adjacent the beak but spaced therefrom, a guard having a facewise extending rightangular connecting and spacing finger at one end fitting between and pivoted to the end ears of said body member to hold said pivoted guard end spaced laterally from said body, said guard overlying the body with its free end squared and lying in close proximity to the end of said beak and of a thickness slightly greater than the space between said body and beak to insure closing of the beak when the free end of the guard rests on said body, said guard lying between said apertured securing ears when in operative position, and a fastener extending through said ears outside said guard to secure the parts in operative position and provide separated link engaging loops at the ends of the member.

1,389,465. TRAIN-LINE VALVE. CHARLES H. WEAVER, Beaumont, Tex. Filed Feb. 14, 1920. Serial No. 358,603. 1 Claim. (Cl. 251—94.)



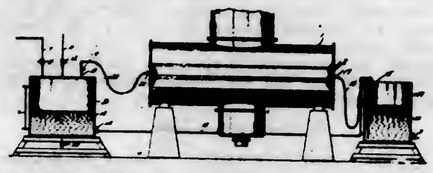
A cut out cock for a pneumatic train brake system comprising a body having a pair of ports arranged in its opposite sides and having a pair of bleed ports disposed diagonally in its sides adjacent to said ports aforesaid, a hollow rotatable cone-shaped plug having a pair of ports arranged in its opposite sides and having a pair of bleed ports disposed diagonally in its sides adjacent to said ports aforesaid, a hollow rotatable cone-shaped plug having a pair of ports arranged in its opposite sides adapted to be brought into registry with the ports in the body and having a pocket formed in its outer wall intermediate its ports and adapted to connect one of said bleed ports with the adjacent port in the body, a bushing secured to the bottom of said body, a coil spring carried by said bushing and engaging the base of said plug, a lug formed upon the reduced end of said plug, stop lugs disposed on opposite sides of said body and an operating handle carried by the lug on said plug having depending lugs adapted to engage said stop lugs aforesaid.

1,389,466. ENGINE. GLENN P. WHITE, Ashtabula Harbor, Ohio. Filed June 30, 1920. Serial No. 393,046. 1 Claim. (Cl. 121—95.)



In a rotary engine the combination with a stator having an eccentric extension on the periphery thereof provided with a pressure inlet and an exhaust port adjacent the respective ends thereof, and a gate movably mounted in the extension, of a rotor having peripheral recesses, pistons pivotally mounted within the recesses, yielding means for successively projecting the pistons into the extension to receive the pressure from the inlet, each of said pistons having a vent extending therethrough, and means for shifting the gate against the rotor to hold the pistons against movement from their recesses while passing the extension.

1,389,467. TUBE-CLEANING APPARATUS. JOHN H. WHITE and EDWARD J. FRANKLIN, Hayden, Ariz. Filed July 14, 1920. Serial No. 396,218. 6 Claims. (Cl. 122—379.)



1. An apparatus of the character stated, comprising a supply tank containing a cleaning agent, a receiving tank, means for directing the cleaning agent into one end of a tube, means for connecting the other end of said tube with said receiving tank, said receiving tank constituting a suction or partial vacuum chamber to cause the cleaning agent to move from the supply tank through the tube and into the receiving tank, and means for directing the return of said cleaning agent from the receiving tank into the supply tank.

1,389,468. SAFETY PNEUMATIC WRENCH. WILLIAM R. WHITE, Bristol, Pa. Filed July 28, 1920. Serial No. 399,525. 5 Claims. (Cl. 81—55.)

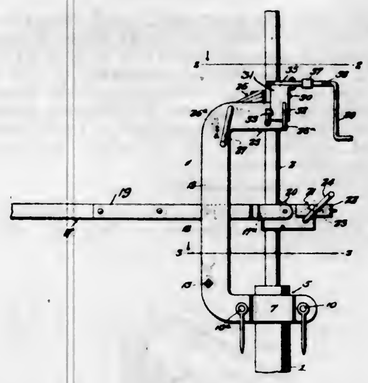


1. A safety tool of the class described including a motor having a casing, a relatively stationary hollow housing rigidly connected with the motor casing and coöperating with the same to form a rigid support and provided with a socket arranged to engage and hold a washer, a rotary wrench socket arranged within the housing and adapted to receive a nut and connected with and actuated by the motor.

1,389,469. ROD-PULLER. WALTER WILCOX and CHARLEY LA DUKE, Oconto, Nebr. Filed Dec. 17, 1920. Serial No. 431,446. 8 Claims. (Cl. 254—31.)

4. A device of the class described comprising a frame having a support engaging clamp at one end and carrying a rod receiving loop with a dog mounted to coöperate

therewith to clamp between them a rod to be lifted, and lever carried rod gripping means to coöperate with said frame carried means, the two sets of gripping means op-



erating on opposite sides of the rod to be gripped, said means operating alternately to grip and release the rod to be lifted.

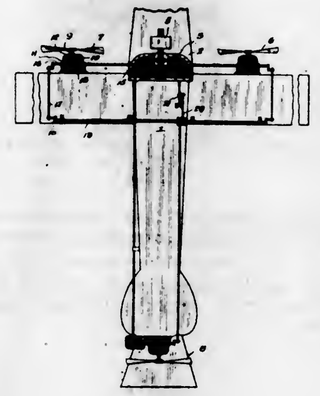
1,389,470. DEMOUNTABLE WHEEL-RIM. FRED WILDHABER and AL L. WARREN, Nowata, Okla. Filed Nov. 27, 1920. Serial No. 426,769. 1 Claim. (Cl. 301—35.)



In a demountable rim, a pair of laterally separable rim sections, one of said sections having a portion formed to provide a laterally opening circumferentially extending channel adapted to receive a complemental portion of the other of said sections, locking pins carried by the channeled rim section and arranged to bridge the channel thereof at spaced intervals around the same, bayonet slots formed in the other said sections and adapted for engagement with the said locking pins, and a headed end on one of the locking pins extending inwardly of the rim and adapted to act as a driver.

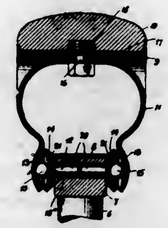
1,389,471. AEROPLANE DRIVING MECHANISM. PHILIP ADLER, Madison, Wis., assignor of one-half to Chris. Uebersetzig, Madison, Wis. Filed Aug. 31, 1920. Serial No. 407,202. 1 Claim. (Cl. 244—25.)

Aeroplane driving mechanism comprising a main drive shaft, a pair of front propellers, a rear propeller, individual drive connections from said shaft to each of said front propellers and to said rear propeller, a swingingly mounted frame supporting each propeller, a crank arm connected to each frame, a single operating shaft extending transversely of the aeroplane, crank arms connected thereto, links connecting the crank arms of the operating



shaft to the crank arms of the frames, and a single lever for giving movement to said operating shaft.

1,389,472. VEHICLE-WHEEL. WILLIAM N. ALLAN, San Antonio, Tex. Filed Feb. 21, 1920, Serial No. 360,425. Renewed Jan. 31, 1921. Serial No. 441,455. 4 Claims. (Cl. 152—8.)

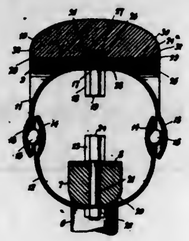


4. The combination of a felly having transversely extending openings therethrough, a spring band extending around the felly and spaced therefrom, rigid units comprising stems removably inserted in reverse positions in the openings of the felly and having outer terminal sockets, spring units connected to the said band and having sockets at the free extremities overlapping the terminal sockets of the rigid units, and anti-frictional devices interposed between and engaging the sockets of the spring and rigid units and holding the same in relative reciprocating association.

1,389,473. VEHICLE-WHEEL. WILLIAM N. ALLAN, San Antonio, Tex. Filed Feb. 21, 1920, Serial No. 360,423. Renewed Jan. 31, 1921. Serial No. 441,456. 12 Claims. (Cl. 152—8.)

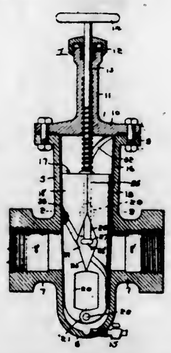
5. A tire comprising opposing spring units having overlapping freely movable extremities, the one spring unit of each group being primarily contracted and the other spring unit of the same group being normally bowed, the con-

tracted unit being expanded to dispose its extremities outside of the extremities of the normally bowed units, and



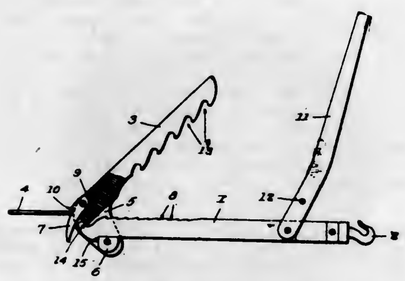
anti-frictional connecting means interposed between and engaging the overlapping extremities of the spring units.

1,389,474. VALVE STRUCTURE. JALMER ANDERSON, Burkburnett, Tex. Filed July 1, 1920. Serial No. 393,332. 5 Claims. (Cl. 251—4.)



1. A valve structure comprising a valve casing, a valve body mounted for movement vertically of said casing, means for producing rotary movement of the valve body incident to the longitudinal movement thereof, adjusting means for the valve body, and means associated with the adjusting means for effecting expansion of the valve body incident to the alternate opening and closing movements thereof.

1,389,475. CABLE-TIGHTENER. ANSLEY BARNES, Waterville, Me. Filed June 14, 1920. Serial No. 388,879. 3 Claims. (Cl. 254—68.)

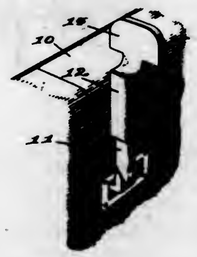


1. A tool of the class described comprising a rack bar provided with means for connection to the wire to be stretched, being also provided at one end with a shoulder, an arm pivotally and slidably mounted on the bar and engageable at its pivoted end with said shoulder to permit initial slack in the wire to be partially taken up when the arm is swung downwardly on its pivot, means for sliding said arm on the bar, and a pawl carried by the arm and engageable with the teeth on said bar.

1,389,476. WELDING CAST-IRON. JACK CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed Oct. 27, 1920. Serial No. 419,905. 40 Claims. (Cl. 219—4.)

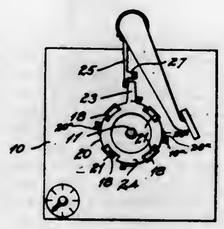
1. A process of welding commercial cast iron showing the structure of unannealed iron which includes welding to the iron a layer of metal adapted to absorb carbon from the iron sufficiently to substantially inhibit the formation of free cementite.

1,389,477. EXTENSION FOR HANDLES. ARCHIBALD C. BEEMAN, Oklahoma, Okla. Filed Oct. 20, 1919. Serial No. 331,820. 2 Claims. (Cl. 292—349.)



1. A handle extension comprising a hand-hold disconnectible from the handle and detachably engageable therewith, and a resilient filler insertible in the hand-hold and frictionally engaging the walls thereof and adapted to frictionally engage over the end of the handle, the end of the hand-hold being widened to form a finger hold.

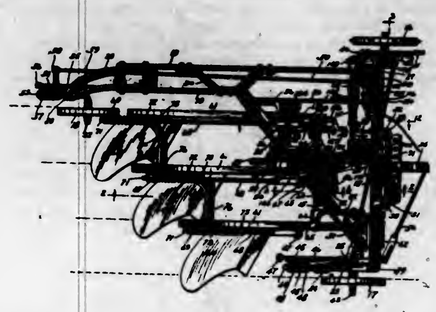
1,389,478. TALKING-MACHINE. JOBBY BELPEDIO, Bridgeport, Conn. Filed Sept. 16, 1919. Serial No. 324,113. 5 Claims. (Cl. 274—9.)



1. In a device of the class described, a turn table adapted to support a record tablet, a tone arm and means actuated by the movement of the tone arm to raise the tablet clear of the table.

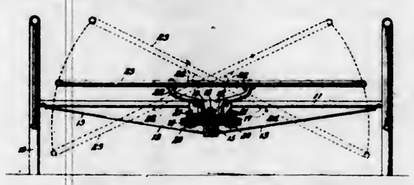
1,389,479. GANG-PLOW. JOHN A. BERGREN, Lake Park, Minn. Filed July 29, 1920. Serial No. 399,850. 13 Claims. (Cl. 97—70.)

1. In a gang plow, the combination with a truck frame, of a plurality of plows having their beams pivotally attached to the truck frame, plow-lifting devices including a rock shaft, automatic locks for holding the rock-shaft



with the plows either raised or lowered, and a lever for oscillating the rock-shaft and having automatic trips for releasing the automatic locks.

1,389,480. ATTACHMENT FOR HOSPITAL-BEDS. FRANK BEAMAN, Oregon, Wis. Filed Jan. 28, 1921. Serial No. 440,683. 6 Claims. (Cl. 5—12.)



1. In a bed, the combination of brackets secured to and depending from the side rails of the bedstead, a transverse rod journaled in said brackets, a turntable mounted upon the rod and supported below said side rails, a bed-spring mounted on the turntable and rotatable therewith, said bed-spring being supported above said side rails and thereby adapted to be tilted between and rotated above the side rails.

1,389,481. SHAKING DEVICE FOR CLEANING FILTERS. WILHELM FRIEDRICH LUDWIG BETH, Lübeck, Germany. Filed Oct. 27, 1919. Serial No. 333,843. 4 Claims. (Cl. 183—58.)



1. In a filter shaking device, in combination, a double-armed lever, a filter supported by one arm of said lever, a rotary cam adapted to act on the other arm of said lever, a support for the filter-carrying lever arm, and means for alternately bringing the filter-carrying lever arm into operative contact with said support and the other lever arm into operative contact with said cam.

1,389,482. AIR OR GAS FILTER. WILHELM FRIEDRICH LUDWIG BETH, Lübeck, Germany. Filed Mar. 8, 1921. Serial No. 450,633. 6 Claims. (Cl. 183—73.)



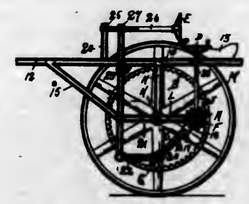
1. In a filtering apparatus, an upright filtering bag formed at the inner side of its upper end with a rolled flange embracing a stiff ring and so reducing the inner diameter, a disk engaging the flange from below, and means for supporting said disk.

1,389,483. ROTARY PLOWSHARE. RENNIE E. BILLINGSLEY, San Antonio, Tex. Filed Feb. 2, 1920. Serial No. 355,752. 2 Claims. (Cl. 97—52.)



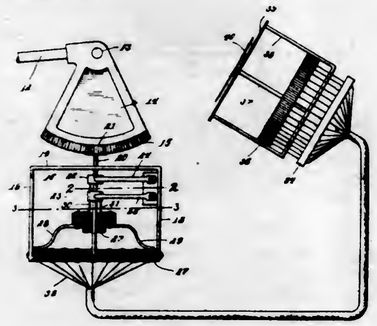
2. An implement of the class described comprising a strip having a cutting edge and twisted longitudinally and curved laterally to provide an unobstructed interior and with an attaching head at one end and an earth penetrating point at the other end.

1,389,484. ROTARY PLOW. RENNIE E. BILLINGSLEY, San Antonio, Tex. Filed Feb. 2, 1920. Serial No. 355,753. 5 Claims. (Cl. 97—52.)



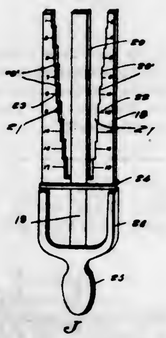
1. In an apparatus of the class described, a supporting frame mounted upon an axle with traction wheels carried by the axle, a plurality of arms swinging upon said axle, a plurality of bars swinging at one end thereof relative to said arms and adapted to support plow elements, means for causing the arms to swing upon the axle to control the angle of cut of the plow elements, and means for elevating and depressing the plow element carrying terminals of the bars.

1,389,485. CIRCUIT-CONTROLLER FOR LIQUID-GAGES. JENNIE GOULD BLAISDELL, West Somerville, Mass. Filed Feb. 1, 1918. Serial No. 214,954. 1 Claim. (Cl. 200—11.)



A device of the class described comprising a base of insulating material, an annular series of stationary contacts carried by the base, a U-shaped frame mounted on the base and having a connecting portion overhanging said base and provided with an opening, a shaft extending through said opening and rotatably mounted on said base, a pair of spaced rings mounted on said shaft, conductors supported by said frame and engaging said rings, an insulating block mounted on said shaft, a pair of oppositely directed spring arms secured to said block and having their terminal portions extending angularly for engaging said stationary contacts, and means electrically connecting said spring arms and said rings.

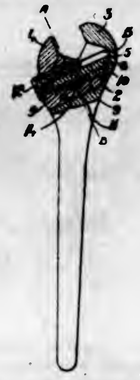
1,389,486. WIRE AND DRILL GAGE. JOSEPH BREWER, New York, N. Y. Filed Feb. 12, 1920. Serial No. 358,179. 4 Claims. (Cl. 33—168.)



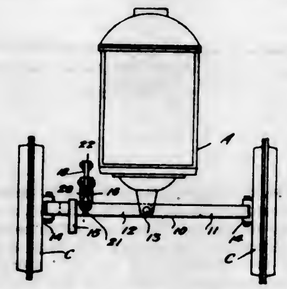
1. A measuring instrument comprising a pair of flat bodies, each having a plurality of shoulders formed along one of its longitudinal edges and arranged in step formation and terminating short of one end of the body, a strip positioned between said bodies and coöperating with the shoulders in defining slots of different widths throughout their lengths, and means securing the bodies and strips together.

1,389,487. ADJUSTABLE WRENCH. GUNNAR ELIAS CASSEL, Stockholm, Sweden, assignor to Arthur Leffler, Djursholm, Sweden. Filed July 27, 1920. Serial No. 399,247. 2 Claims. (Cl. 81—149.)

1. An adjustable wrench comprising in combination a shank, a rigid jaw integral with said shank, said rigid jaw being formed with an oblique guide-way, a movable jaw having a wedge-shaped recess and mounted to slide in said oblique guideway, a member rigidly attached to the rigid jaw and having a step formed surface inclined relatively to the direction of said guide-way, a movable wedge having a step formed contact surface bearing against said first-mentioned step formed surface, said wedge further engaging the wedge-shaped recess.

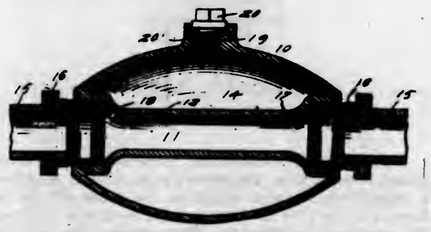


1,389,488. ATTACHMENT FOR TRACTORS. JOSEPH JOHN CHOLICK, Rio Honde, Tex. Filed May 24, 1920. Serial No. 383,982. 3 Claims. (Cl. 180—82.)



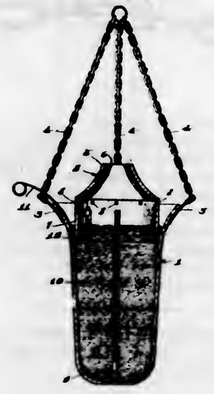
1. In combination with the clutch lever of a tractor, lever means connected therewith and with the front axle whereby upon backward rearing of the tractor the clutch lever will be moved to disengaged position, the front axle being formed of pivotally connected sections, and said lever means being connected with and moved by movement of the sections.

1,389,489. AUTOMATIC OILER. JAMES C. COFFEE, Webb City, Mo. Filed Aug. 20, 1920. Serial No. 404,771. 1 Claim. (Cl. 184—55.)



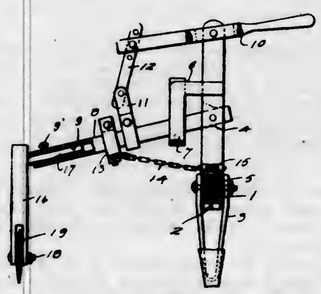
An automatic oiler comprising a hollow lubricant containing casing having oppositely arranged ports, a tubular wall arranged in the casing to form a passage and having its ends flared and internally screw threaded and formed integrally with the casing about said ports, said wall adjacent one end having a vent opening, a nozzle carried by said wall adjacent its other end and having one end disposed in the passage and its other end in communication with the interior of the casing, and bushings threaded in the ends of the wall and having pipe sections of an air line threaded therein.

1,389,490. SANCTUARY-LAMP. GEORGE L. COOK and JOSEPH F. SCHMIDEK, Syracuse, N. Y., assignors to Mack-Miller Candle Company, Syracuse, N. Y., a Corporation of New York. Filed June 9, 1919. Serial No. 302,678. 4 Claims. (Cl. 67—36.)



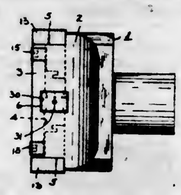
1. A lamp comprising an elongated transparent fuel receptacle, a wick supported in the receptacle, and a cap seated in the upper part of the receptacle and extending above the upper end of the wick and having air holes, substantially as and for the purpose described.

1,389,491. ROW-MARKER. JACOB S. COONS, Taylorsville, N. C. Filed June 23, 1920. Serial No. 391,106. 2 Claims. (Cl. 97—83.)



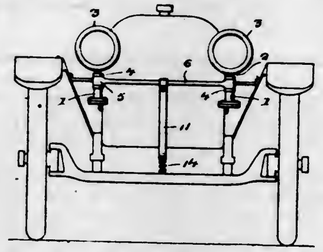
1. In combination with a supporting beam, a post thereon, marking means suspended from the post, a lever on the post operable to raise said means above the beam, and said post being turnable on a substantially vertical axis so that the marking means may be moved across the beam and disposed on either side thereof by swinging the lever laterally while in a raised position.

1,389,492. ADJUSTABLE REAMER AND BORING-TOOL. JOHN M. DAVIS, Cleveland, Ohio. Filed July 14, 1919. Serial No. 310,654. 3 Claims. (Cl. 77—58.)



1. In a device of the character described, the combination of a holder having shoulders at the sides, said holder having a transverse aperture and a vertical opening, an interiorly threaded adjusting nut mounted in such opening in alinement with the aperture, holding members adjustably mounted in such aperture and having threaded ends adapted to engage in said nut, said holding member having tongue and grooved outer ends, cutting blades having enlarged outer ends having tongue and grooved inner ends adapted to engage with said holding members, said cutting blades being mounted in such aperture and extending outwardly of the same in contact with said shoulders on the holder, and means for locking said cutting blades securely against said shoulders in adjusted positions.

1,389,493. DIRIGIBLE HEADLIGHT. ROBERT E. DAVIS, El Paso, Tex. Filed Aug. 21, 1920. Serial No. 405,073. 2 Claims. (Cl. 240—62.)



1. In combination with an automobile and its headlamps, a post for each lamp having a screw threaded lower end, a screw threaded socket for receiving said screw threaded end of each post, ears on each post, a cross rod pivotally connected with the ears for connecting the posts together, an L-shaped rod having its upper end connected with the cross rod and having an elongated tapered slot in its other end, a clip adjustably carried by the connecting rod of the steering mechanism, a post on the clip engaging the slot and a spring connecting the clip with the L-shaped rod.

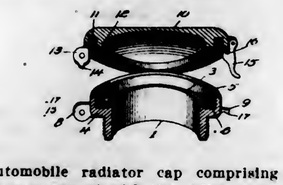
1,389,494. RAILWAY SIGNAL-TORPEDO. FRANK DUTCHER, Versailles, Pa., assignor to Central Railway Signal Company, Pittsburg, Pa., a Corporation of New Jersey. Filed Dec. 27, 1920. Serial No. 433,371. 6 Claims. (Cl. 246—487.)



1. The combination with a case of a railway signal torpedo and rail attaching member at one side thereof,

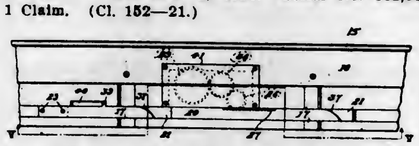
of a string passed under the rail-attaching member at points adjacent the edge of the case and across the opposite side of the case, and a clamping member for holding the string in its wrapped position.

1,389,495. AUTOMOBILE-RADIATOR CAP. WILLIAM M. ERWIN and WILLIAM F. STRETCH, Hanford, Calif. Filed Dec. 30, 1920. Serial No. 434,016. 1 Claim. (Cl. 220—32.)



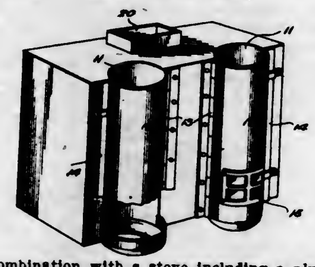
An automobile radiator cap comprising a threaded sleeve for engagement with the radiator neck, and having a flange L-shaped in cross section on its outer face below its upper edge, the long arm of said flange upstanding and being concentric with said edge and extending in a plane above it, a gasket seat being formed between said edge and said upstanding flange portion, a lid shaped to fit said flanged sleeve end and having an annular groove to receive the upstanding edge of said sleeve and a rib to fit in said gasket seat, said lid and sleeve being hingedly connected and the sleeve provided with a cam catch and the lid with a coöperating hook shaped latch whereby the latch is thrown off center when engaged with said catch to prevent its accidental release.

1,389,496. TIRE-RIM FOR VEHICLES. CIRIL FAK, Bush, Ill. Filed Mar. 2, 1920. Serial No. 362,845. 1 Claim. (Cl. 152—21.)



In combination with a felly having an innular groove and transverse slots intersecting said groove with a relatively short longitudinal groove adjacent the annular groove, a rim section removably mounted upon the periphery of the felly overlying said slots and grooves, inwardly projecting lugs upon said rim section having correspondingly curved sides, a locking ring for said rim section slidable within the annular groove of the felly, said ring having transverse passages provided with curved side walls adapted for engaging the curved faces of the lugs during the sliding movement of the ring in its locking position, and a pin carried by said ring and movable within the relatively short slot for limiting the movement of the ring.

1,389,497. ATTACHMENT FOR OIL-STOVES. HENRY FERR, Mason City, Iowa. Filed Nov. 29, 1920. Serial No. 427,082. 1 Claim. (Cl. 126—53.)



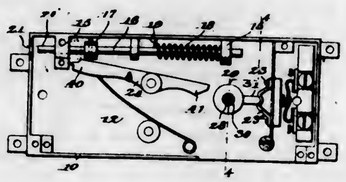
The combination with a stove including a plurality of burners, of an annulus surrounding the upper end of said burners, a rectangular tank carried by said stove and provided with a plurality of semi-circular depressions, oppositely curved doors and forming flues therewith and hingedly secured to one edge of each depression, engaging said annulus and provided with a plurality of openings, laterally extending longitudinal flanges formed integrally with the outer edge of said doors and means for retaining said doors in closed position.

1,389,498. CHAIN-FASTENER. MICHAEL A. FRIDGEN, Vining, Minn. Filed Apr. 25, 1921. Serial No. 464,137. 1 Claim. (Cl. 24—232.)



A chain fastener comprising a link plate having a relatively long longitudinally directed slot opening through one end and a relatively short branching slot closed at the ends and communicating intermediate the ends with the longitudinally directed slot, and coacting locking disks pivoted to the link plate and obstructing the inlet to the branch slot, said disks each having a radially directed slot adapted to provide for the entrance of a chain link into the slots of the link plate when the slots of the locking disks are in registering position.

1,389,499. AUTOMOBILE-LOCK. STEPHAN G. GERLACH, Stratford, Conn. Filed Jan. 26, 1920. Serial No. 354,310. 4 Claims. (Cl. 70—18.)



1. In a combination-lock, a spring actuated bolt having an arm, a key actuated spring pressed dog which engages said arm for normally holding said bolt retracted, a key which when properly manipulated actuates said dog to release said bolt to an active position, and means for holding said bolt in a neutral position.

1,389,500. MOTION-PICTURE REEL. EDWARD H. GOODRICH and HENRY C. MARTINELLI, Springfield, Mass. Filed June 25, 1920. Serial No. 391,655. 4 Claims. (Cl. 242—70.)

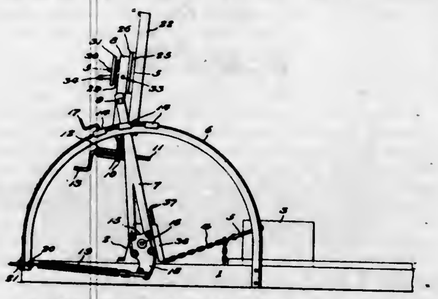
4. In a reel, the combination of a hub portion having a bore with a reduced extension therein; a leaf spring secured to said hub portion for holding one end of the material to be wound upon said reel; a pin slidably mounted beneath said material holding spring; a plunger slidably mounted in said bore of said hub portion including an inclined face adapted to engage said pin to raise said leaf spring to non-material engaging position, a reduced portion adapted to slide in the reduced portion of said bore, and a stop plate adapted to engage said pin to hold the plunger in said hub portion; and a coil spring

mounted upon the reduced portion of said plunger and adapted to engage the inner end of the enlarged portion



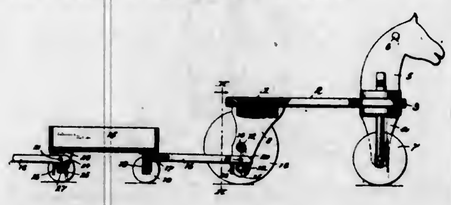
of said bore and said stop plate, to hold the inclined face out of engagement with said pin.

1,389,501. DRILL-SHARPENER. JOHN B. GORMAN and JAMES A. FERTIG, Wentworth, Mo. Filed Dec. 6, 1919. Serial No. 343,060. 3 Claims. (Cl. 76—5.)



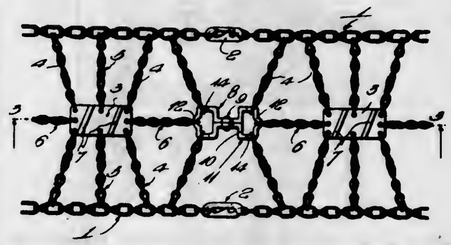
1. A device of the class described comprising a case, an anvil carried thereby, a segment carried by the base, a main frame having its lower part pivoted to the anvil, means for adjustably connecting said main frame with the segment, a cradle frame pivotally connected with the main frame, a cradle for the hammer, and means for adjusting the same laterally in the cradle frame.

1,389,502. TOY VEHICLE. WARREN T. GREEN, St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky., a Corporation of New Jersey. Filed Dec. 6, 1920. Serial No. 428,529. 4 Claims. (Cl. 280—33.2.)



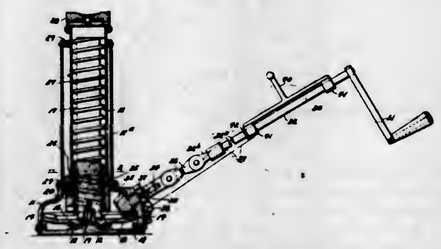
1. In combination with a toy vehicle having two spaced elements extending across the rear portion thereof; a second vehicle; a tongue connected to said second vehicle; a pair of spaced fingers extending outwardly from one face of the tongue and adapted to engage one of the spaced elements aforesaid; and a spacer rod extending laterally from each side of the tongue.

1,389,503. TIRE-CHAIN. CHARLES S. HAMILTON, Cumberland, Md. Filed Mar. 10, 1921. Serial No. 451,103. 1 Claim. (Cl. 152—14.)



A tire chain comprising a pair of circumferential side chains, a plurality of circumferentially spaced substantially rectangular plates provided on the outer faces with antiskid ribs, transverse relatively short divergent tread chains connected with the opposite longitudinal edges of said plates and with links of said side chains, and central tread chains arranged between the divergent chains, these chains being connected with the approximate centers of said plates and also connected with said side chains, and other tread chains allined with and connecting and spacing said plates with one another.

1,389,504. LIFTING-JACK. JEROME G. HARRISON, Philadelphia, Pa. Filed July 18, 1919. Serial No. 311,724. 2 Claims. (Cl. 254—103.)

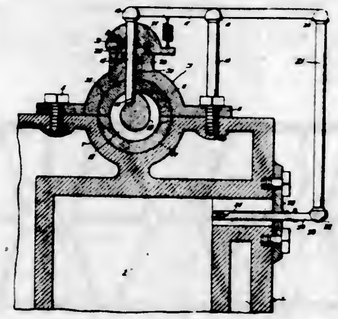


1. In a jack the combination with a base and a gear revolubly supported in the base, of a screw carried by the gear and revoluble therewith, a nut encircling the screw, antifriction elements carried by the nut and movable into and out of rolling contact with the threads of the screw when the nut is advanced or retracted on the screw, an upright carried by the nut, a shoe on the upright, a housing extending upwardly from said base, a handle, a pinion journaled in the base and meshing with said gear, pawl and ratchet mechanism on the gear and associated with the handle for locking the gear against reverse movement and means on the handle for moving said pawl and ratchet mechanism into and out of operating position.

1,389,505. ENGINE. EDWIN C. HAY, Montgomery, Ala. Filed June 14, 1919. Serial No. 304,205. 3 Claims. (Cl. 123—152.)

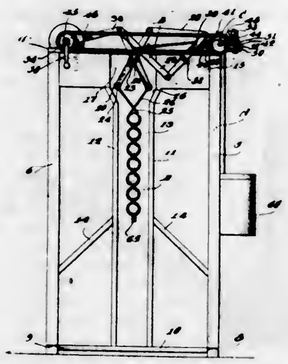
1. An internal combustion engine including a plurality of cylinders having combined intake and exhaust ports, a shaft having a plurality of spaced ports adapted for reg-

istration with the combined intake and exhaust ports of said cylinders, said shaft being provided with a plurality of grooves having spiral bottom walls thereby forming a plurality of cams, having lobes provided with radial shoulders, said shoulders being disposed obliquely with re-



lation to the axis of said shaft, plungers engaged with the spiral bottom walls of said grooves, igniting devices associated with said plungers, and means whereby said plungers may be moved together longitudinally of said shaft whereby the spark of said igniting device may be retarded or advanced to the desired extent.

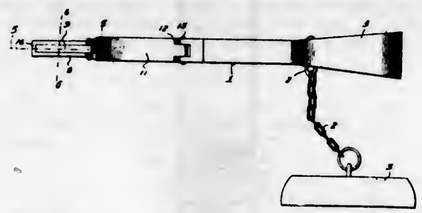
1,389,506. MACHINE FOR PREPARING SEED-CORN FOR DRYING. HARRY J. HEADRICK and SAMUEL A. PALMER, Miller, S. D. Filed Apr. 19, 1921. Serial No 462,771. 6 Claims. (Cl. 139—32.)



1. A machine for binding seed corn together for drying comprising a frame including a pair of oppositely disposed legs, feet connecting the lower terminals of the legs together, a longitudinally extending top board carried by the legs, a centrally positioned vertically disposed guide carried by the frame, a pair of cross levers pivotally secured to each opposite side of the top board, a cross shaft, rotatably carried by the top board, a pair of spaced levers secured intermediate their ends to the cross shaft, means operatively connecting the opposite ends of the levers to the upper ends of the pairs of cross levers, an operating shaft, means for operating the shaft, means operatively connecting the shaft with the cross levers, the pairs of cross levers being disposed in said guide adjacent to the upper end thereof.

1,389,507. SANITARY COW-TAIL HOLDER. STEPHEN H. HIPKINS, Auburn, Wash. Filed Feb. 7, 1919. Serial No. 275,579. 1 Claim. (Cl. 119—105.)

A cow tail holder comprising pivoted handles, integral jaws on the pivoted ends of the handles and one of said jaws having an elongated slot extending into its respective handle, said slot adapted to wholly receive the other jaw when moved therein and the latter named jaw having a serrated face, said handles extending from their pivots



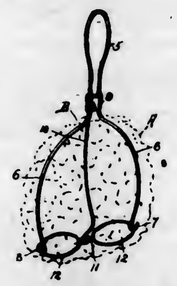
in diverging planes and having openings in their free ends, pivot pins in said openings, a tension member including diverging arms having bearings at their ends to receive said pins, and a substantially circular tension portion connecting said arms.

1,389,508. PERCOLATOR-STAND. LESLIE R. HODGE, Los Angeles, Calif. Filed May 19, 1921. Serial No. 470,813. 1 Claim. (Cl. 65—53.)



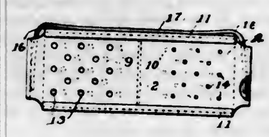
A detachable percolator or urn stand comprising a substantially isosceles traingular plate having an arm extending from one edge thereof midway its ends, said plate having sockets in the two corners nearest said arm, and another in the free end of said arm to receive the legs of the article to be supported, the other corner of said plate having an enlarged recess in its upper face, and a removable drip cup mounted in said recess and having a foraminous closure at its upper end to support a cup in position to receive the contents of the urn.

1,389,509. SPONGE-HOLDER. JOSEPH E. S. JAMES, Philadelphia, Pa. Filed June 5, 1920, Serial No. 386,719. Renewed May 7, 1921. Serial No. 467,735. 2 Claims. (Cl. 15—59.)



1. A device of the character described, comprising a single length of wire bent to provide opposed resilient arms, a closed eye on one arm, an open eye on the other arm, a double looped bridge member loosely engaged with the closed eye and adapted for detachable engagement with the open eye.

1,389,510. SHAKER. CLARENCE E. JOHNSON, Kankakee, Ill. Filed Mar. 2, 1920, Serial No. 362,837. Renewed July 5, 1921. Serial No. 482,562. 2 Claims. (Cl. 65—45.)

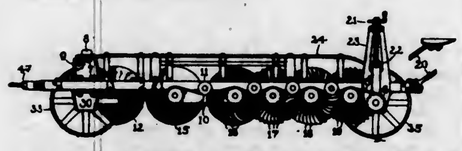


1. A shaker comprising a receptacle having a set of holes in its top communicating with a salt compartment, a second set of holes communicating with a pepper compartment, the bottom of the receptacle being raised and provided with flanged salt and pepper openings, stoppers for the openings and a slide slidably supported by the top of the receptacle for opening and closing the said holes and having depending flanges and a single leaf spring secured to the side of the receptacle and having its ends bent to yieldably engage said flanges.

1,389,511. PROCESS OF TREATING LEAD ALLOYS. JAMES O. JOHNSTONE, East Chicago, Ind. Filed Aug. 9, 1920. Serial No. 402,223. 3 Claims. (Cl. 75—18.)

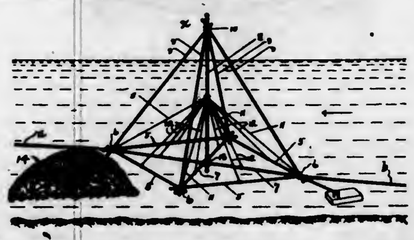
1. In the treatment of bullion containing lead and at least one of the metals antimony, silver and bismuth, the herein described improvement which comprises treating the said bullion in a comminuted state with a solution containing lead nitrate, until a substantial proportion of the said lead nitrate has been converted into basic lead nitrite, and separating the slimes containing the antimony, silver and bismuth content of the bullion from the solution containing lead nitrite.

1,389,512. HARROW. MATHIAS E. JUOPPERI, Astoria, Oreg. Filed Feb. 13, 1920. Serial No. 358,481. 2 Claims. (Cl. 55—85.)



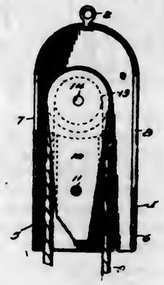
1. A harrow including a rectangular frame, a vertically extended frame secured to said harrow frame, a vertically arranged yoke straddling a wheel and supporting a shaft whose ends extend into vertical slots of the vertically extended frame, a vertical feed bar communicating with said yoke and passing through the upper portion of said vertical frame and a hand wheel surmounting said feed bar whereby said bar may be rotated to raise said yoke and included wheel within said vertical frame.

1,389,513. SILT-ACCUMULATOR. HENRY F. KELLNER, Silver Lake, Kans. Filed Mar. 25, 1921. Serial No. 455,521. 4 Claims. (Cl. 61—3.)



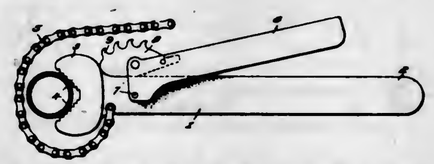
1. In a silt accumulator, a rectangular base including rigid, elongated members connected at their ends and cross-strips disposed diagonally with reference to and connected with said rigid elongated members, a standard secured to the cross-strips at the intersecting parts thereof, rigid, elongated members connected at their lower ends with the base at the corners thereof and connected at their upper ends with the standard, and a plurality of strands connected with the rigid, elongated members of the base and connected with the standard midway between the ends thereof.

1,389,514. AUTOMATIC LOCK-PULLEY. CHARLES A. KESTELL, Detroit, Mich. Filed May 31, 1921. Serial No. 473,957. 5 Claims. (Cl. 254—191.)



1. In a hoisting apparatus, a supporting structure, a lever fulcrumed therein, a pulley carried by said lever and adapted to have a cable trained thereover, one end of said lever being positioned for clamping engagement with said structure to lock the cable between them when said lever is moved in one direction and released when moved in the other direction.

1,389,515. WRENCH. ALEX KIKTA, Flint, Mich. Filed Mar. 21, 1921. Serial No. 454,115. 1 Claim. (Cl. 81—66.)

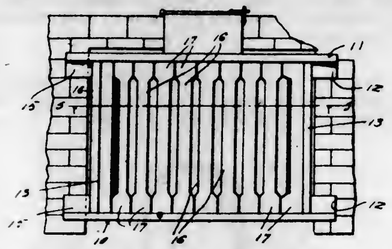


A wrench of the class described comprising an elongated body member provided at one end with a hand grip and at its other end with an enlarged head equipped with a forwardly and longitudinally opening V-shaped, serrated, object engaging jaw, a lever inverted U-shape in cross section straddling one edge of said body member and fulcrumed at one end to said member adjacent said head, a rack secured to the front end of said lever with the outer edge of said rack curved longitudinally and provided with a plurality of longitudinally spaced hook-like teeth, said rack having a cam like inner edge to engage the edge of said body member when the lever is swung into closed position, and an object encircling chain pivotally secured at one end to said body member adjacent the head thereof on which said lever is mounted, said chain being adapted to extend around the object to be gripped and to be engaged with said rack, whereby the closing of the lever will operate to pull the chain taut and force the object encircled thereby into biting engagement with the jaw of the body member.

1,389,516. VENTILATED GRATE FOR FIREPLACES. JAMES M. KILLEN, Reids, La. Filed June 15, 1920. Serial No. 389,165. 2 Claims. (Cl. 126—164.)

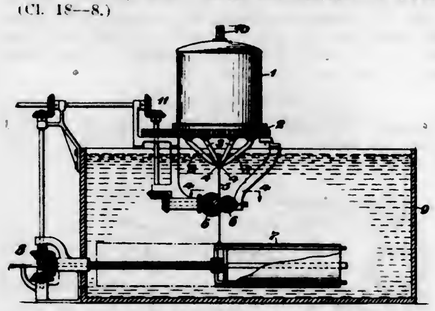
1. A fireplace grate construction having a frame consisting of longitudinal front and rear bars provided with

inwardly directed flanges at their lower edges, side bars joined to said front and rear bars adjacent the ends of the latter and having inwardly directed flanges at their lower edges, grate bars resting upon said front and rear bars and having their ends enlarged to space the main portions of said grate bars from one another and provide



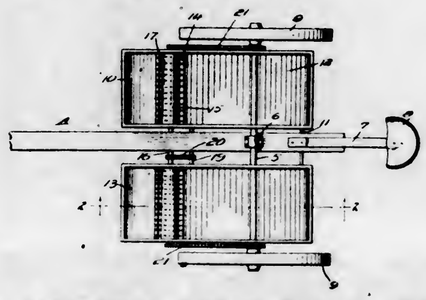
ventilating spaces therebetween, and an ash pit depending from said frame, said ash pit being closed at its inner end and provided at its outer end with an extension for penetration of a wall within which the fire place grate is mounted so that the air drafts may be obtained from exteriorly of the building and the contents of the ash pit removed therefrom from the exterior of the building.

1,389,517. METHOD AND MEANS OF PRODUCING ARTIFICIAL SILK. ISIDOR KITSEE, Philadelphia, Pa. Filed Dec. 20, 1919. Serial No. 346,420. 8 Claims. (Cl. 18—8.)



1. In the art of producing artificial silk the improvement which consists in exerting a pressure on the produced thread during the time that said thread is carried through the coagulating bath.

1,389,518. MANURE-SPREADER. WILLIAM C. LEMINGER, Sullivan, Ind. Filed Mar. 26, 1920. Serial No. 369,024. 2 Claims. (Cl. 275.2.)



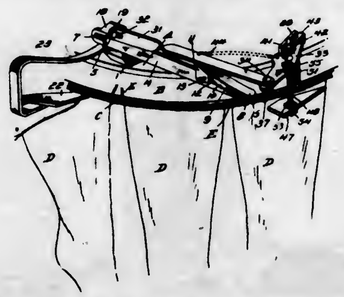
2. In a machine of the character described comprising a draft beam, an axle carried by said beam, ground wheels keyed to the axle, containers having forward discharge openings therein positioned on each side of the draft beam, said axle extending through the said containers, friction rollers and endless conveyers carried thereby, said containers constituting bottoms for the containers, transverse shafts journaled in the sides of the containers, distributing rollers carried by said transverse shafts forwardly of the conveyers, gearing between the axle and transverse shafts, and additional gearing interposed between the friction rollers and said transverse shafts whereby motion is communicated to the endless conveyers and said discharge rollers by the travel of the machine.

1,389,519. EXPANDING REAMER. GEORGE LENHART, Eufaula, Okla. Filed Sept. 20, 1919. Serial No. 325,122. 8 Claims. (Cl. 77—75.)



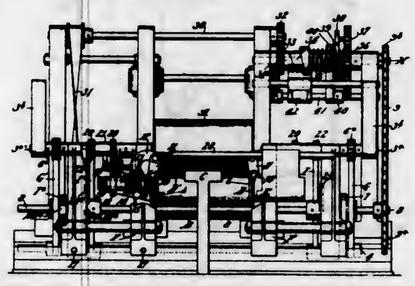
1. In a reamer, a slotted stem, blades having tapered ends and fitting in the slots of the stem, and adjusting means within the stem for the blades, said adjusting means including blocks movable longitudinally of and within the stem and having wings extending into said slots for supporting the blades in adjusted position and for preventing rotation of said blocks within the stem.

1,389,520. ATTACHMENT FOR MACHINES FOR SEWING LOOPED FABRICS. ELMER C. LOCHHEAD and LESTER PAUL BREWER, Effingham, Ill. Filed Mar. 23, 1920. Serial No. 368,040½. 13 Claims. (Cl. 112—25.)



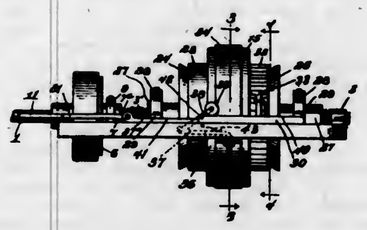
1. In a machine for sewing looped fabrics, the combination with a ring support having an impaling pin carrying ring rotarily mounted thereon, of a thread cutting mechanism mounted on said support and comprising a seam engaging nose extending beyond the perimeter of said ring, a cutter carried by said nose, and means for directing the seam toward said nose whereby the nose will extend under the thread to be cut and guide it against said cutter.

1,389,521. PLATE-LIFTING MECHANISM FOR ROLLING-MACHINES. THOMAS MCCABE, Yorkville, Ohio. Filed June 17, 1919. Serial No. 304,825. 34 Claims. (Cl. 80—47.)



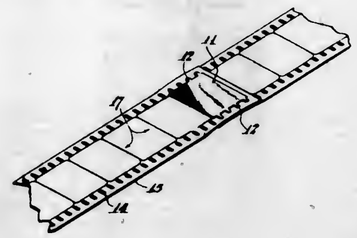
16. A plate lifting mechanism for rolling machines, comprising plate lifters arranged at the rear of the rolls of the machine on opposite sides of a table or support that receives the plates as they are discharged from the rolls, vertically-movable carriers to which said plate lifters are connected, a pair of rock shafts associated with each carrier and provided with devices that are pivotally connected to said carrier, counterweights secured to said rock shafts, an oscillating actuating member for each carrier provided with racks that mesh with pinions on said rock shafts, a cam shaft provided with cams, one of which coöperates with one of said actuating members to rock both actuating members in one direction and the other of which coöperates with the other actuating member to rock both of said actuating members in the opposite direction, and means for swinging said plate lifters relatively to their carriers comprising cams on said cam shaft, oscillating members coöperating with said cams, and racks on said oscillating members connected by trains of gearing directly to said plate lifters.

1,389,522. MOTOR-STARTER. IRVIN J. MAHA, Sleepy Eye, Minn. Filed Jan. 4, 1919. Serial No. 269,613. 6 Claims. (Cl. 185—41.)



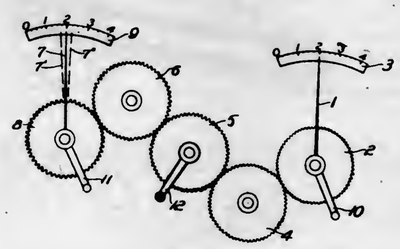
6. In a device of the class described, an engine shaft, a starter shaft, a clutch mechanism between said shafts, a two-part motor casing, the parts thereof being mounted for independent rotation on said starter shaft and with respect one part to the other, a coiled power spring within said motor casing and connecting the parts thereof, a clutch mechanism coöperative with each part of said motor casing and said starter shaft, a pawl and ratchet mechanism for holding one of the parts of said motor casing against retrograde movement during the rewinding of said coiled power spring, a brake band encircling the other of said parts of said motor casing for holding the part against rotation during the rewinding of said coiled power spring and releasing the said part for the uncoiling of said power spring, levers for actuating said last mentioned clutch mechanisms, a bar connecting said levers and operable for alternately connecting and disconnecting the parts of said motor casing to said starter shaft through said clutch mechanisms, said bar having one of its faces formed to provide plane surfaces one of a greater height than the other and interconnected by an inclined surface at a point intermediate the opposite ends of the same, a bell-crank lever connected to one end of said brake band, and a roller journaled on the free end of said bell-crank lever and bearing on the plane surfaces of said bar, said bell-crank lever being actuated by said bar for the operation of said brake band simultaneously and correspondingly with the operation of said last mentioned clutch mechanisms.

1,389,523. FILM-PATCH. RAYMOND C. MERCER, Los Angeles, Calif. Filed June 1, 1920. Serial No. 385,784. 3 Claims. (Cl. 88—19.5.)



1. A film patch for connecting the overlapped ends of perforated motion picture film comprising a member having a flat body and projections of substantially uniform width formed on said body arranged to extend substantially in the same plane as the body portion through corresponding perforations along the edges of the overlapped ends of the film.

1,389,524. WEAR-COMPENSATING GEARING FOR INSTRUMENTS. ROBERT V. MORSE, Ithaca, N. Y., assignor to Morse Instrument Company, Inc., Ithaca, N. Y., a Corporation of New York. Filed Oct. 2, 1918. Serial No. 256,513. 5 Claims. (Cl. 74—7.)



1. In a wear compensating gearing, the combination of a power applying means, gear trains extending from the power applying means to different points of action, said gear trains being so arranged that the wear between the power applying means and the different points of action is substantially the same, and a wear compensating adjustment in one of the trains whereby two trains may be brought into precise adjustment.

1,389,525. SURGICAL APPLIANCE. JOHN K. MOSBY, Wiggins, Miss. Filed Feb. 21, 1920. Serial No. 360,373. 1 Claim. (Cl. 128—85.)



A surgical appliance of the class described comprising a splint formed of a flat strip of material adapted to extend from a point above the waist of a patient to a point below the foot and being provided with transversely spaced longitudinally disposed pairs of openings at a point adjacent the knee and waist respectively and longitudinally spaced openings at the lower end of said splint beyond the foot, adjusting strips passing through the knee and waist openings, a cuff adapted to be removably secured to the ankle of the patient, a loop having its ends secured to each side of said cuff and adapted to extend beneath the foot of the patient and an adjusting strap passing through said loop and through openings in the opposite end of said splint.

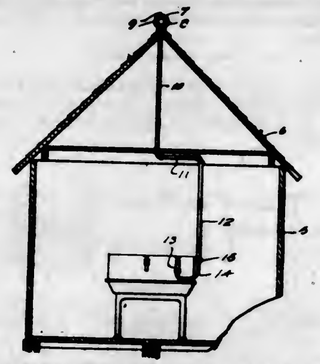
1,389,526. PEANUT-HARVESTER. GEORGE L. NEWTON, Machen, Ga. Filed May 21, 1920. Serial No. 383,111. 8 Claims. (Cl. 55—137.)



6. A peanut harvester provided with means for extracting peanuts from the ground while the harvester is traveling over the ground, and including an endless conveyer with its supporting surface made up of series of rotatable disks traveling both rotatively and linearly.

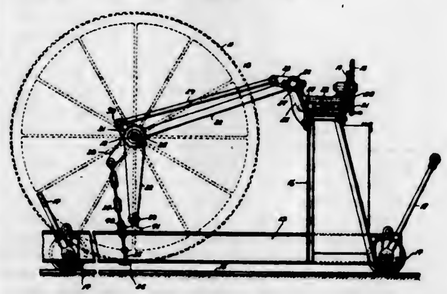
1,389,527. FIRE-EXTINGUISHER. MARGARET E. OATES, Victoria, British Columbia, Canada. Filed Mar. 29, 1919. Serial No. 286,053. 1 Claim. (Cl. 169—5.)

A fire extinguisher as an attachment for a building having a gable roof and a source of water supply, comprising a discharge member, means straddling the roof at the apex to mount said member, a pipe depending from the member, an angularly disposed pipe connected to said pipe and forming an attaching portion, and a pipe depending from said portion and having its inlet disposed adjacent



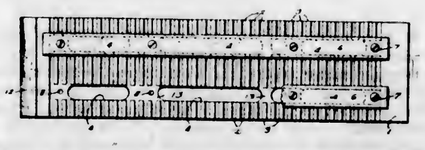
a discharge valve in the said source, and a flexible hose on the last pipe applicable to said valve.

1,389,528. TRACK-GRINDING MACHINE. HENRY PERAZZOLI, Philadelphia, Pa. Filed Apr. 4, 1919, Serial No. 287,424. Renewed July 11, 1921. Serial No. 483,950. 3 Claims. (Cl. 51—178.)



1. In a track grinding apparatus, the combination with a grinding frame and a carriage, said carriage including a cross shaft and wheels, of a supporting frame in the grinding frame, a bell-crank lever journaled on the cross shaft of the carriage, a connection between the bell-crank lever and the grinding frame, a cross shaft on the supporting frame, a bell-crank lever on the last mentioned cross shaft, a link connecting the mentioned bell-crank levers, a supporting member depending from the bell-crank lever on the shaft of the carriage and in movable engagement with the grinding frame, an operating wheel on the supporting frame and a screw operable by said operating wheel and having connection with the bell-crank lever on the cross shaft of the supporting frame.

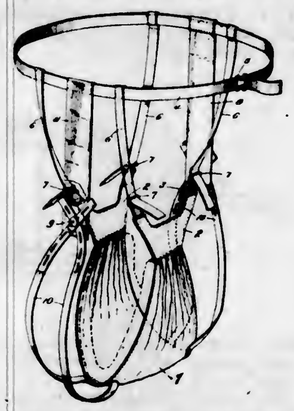
1,389,529. GRATE-BAR. LESTER C. PERKINS and ROBERT F. MCKINNEY, Mechanicsville, N. Y. Filed Apr. 26, 1920. Serial No. 376,696. 4 Claims. (Cl. 126—163.)



1. A grate comprising a body portion having its upper face corrugated throughout the greater portion of its area,

said body portion being provided with alined air openings, and a relatively long flat baffle plate arranged on the body portion and covering said air openings.

1,389,530. NAPKIN. MARY POST, Norwalk, Iowa. Filed Feb. 24, 1919, Serial No. 278,663. Renewed Mar. 19, 1921. Serial No. 453,711. 1 Claim. (Cl. 128—289.)



A device of the class described, comprising a belt, front and rear straps depending from said belt, a pair of side straps depending from the belt, a holder, pads on the ends of the holder, means for connecting the pads to the front and rear straps and a strap having its center connected with each side of the holder, midway its ends, and adapted to pass around the thigh, and means for connecting said last-mentioned straps with the side straps.

1,389,531. MALE URINAL-BAG. FREDERICK F. RICHE, Troy, N. Y. Filed July 29, 1919. Serial No. 313,999. 1 Claim. (Cl. 128—295.)



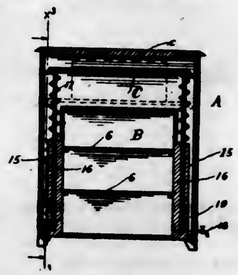
A male urinal bag of the class described comprising a soft compressible rubber shield, a thin rubber bag detachably attached to said shield, a pair of spaced projecting tabs provided on the inner edge of said shield, a rubber ring being secured to the bag proper which forms a housing for said ring, a pair of straps secured to said spaced projecting tabs for attaching said bag to the user, a boss-like protuberance formed on one face of said shield, the outer face thereof being arranged at a downward angle, a peripheral continuous groove being arranged in parallel relation to said outer face of said boss, and an annular lip being provided on said boss.

1,389,532. VEHICLE-LIFT. CHARLES B. ROBERTS, Berkeley, Calif. Filed Feb. 12, 1921. Serial No. 444,428. 2 Claims. (Cl. 254—91.)



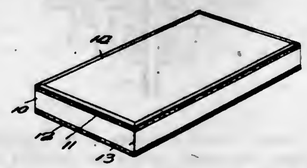
1. In a device of the character described, parallel tracks, means for securing said tracks one to the other at one end, removable means for securing said tracks to each other at their opposite ends, pivoted braces substantially midway of said tracks, a shaft mounted between said tracks, a spool mounted on said shaft, pivoted braces secured to said tracks and abutting said spool, means for rotating said spool, and means for holding said tracks in an inclined position for the purpose of moving a vehicle thereon.

1,389,533. WEIGHING-REFRIGERATOR. ARCHIE R. SACKETT, San Pedro, Calif. Filed Dec. 16, 1919. Serial No. 345,365. 1 Claim. (Cl. 265—65.)



A refrigerator, comprising a main casing, a commodity casing within the main casing, a spring-supported movable ice tray within the main casing and above the commodity casing, and indicating means disposed exteriorly of the main casing and operatively connected with the ice tray and whereby the weight of ice imposed upon such ice tray may be determined; said indicating means including a graduated dial exteriorly of the main casing, a shaft projecting through the center of said dial and through the casing, a pointer on said shaft for play over the graduations of the dial, a drum mounted on said shaft within the refrigerator casing, and a cord attached to said drum and wound upon the same and having an end joined with the ice tray; said ice tray being provided with a plurality of downwardly directed legs, housing members within the refrigerator for receiving said legs, coil expansion springs surrounding said legs disposed between the ice tray and the tops of the housing members; said housing members tending to direct the movement of the ice tray and the said spring members being adapted to receive the weight of the ice tray and ice placed thereon.

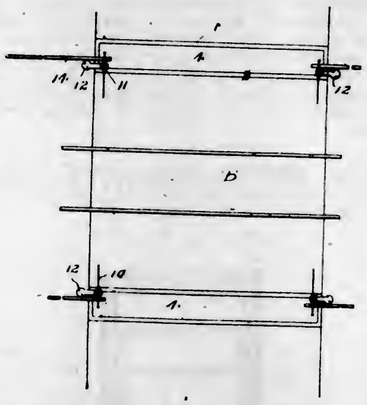
1,389,534. RAZOR-HONE. EDWARD J. SAWTELLE, Berwick, Me. Filed Apr. 26, 1919. Serial No. 292,857. 1 Claim. (Cl. 51—212.)



A hone of the class described comprising a rigid supporting body having opposite rectilinear faces, a thin plate

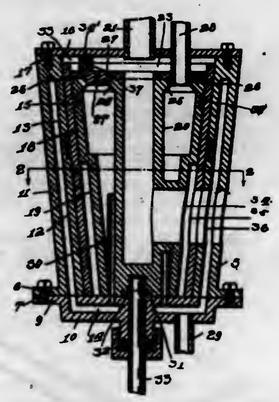
of sheet metal of uniform thickness and capable of serving as a sharpening element for edge tools mounted on each of said faces and being sufficiently thin to yield slightly to the pressure applied during the sharpening operation, and yieldable pads of uniform thickness throughout disposed between the plates and the body and presenting a uniform yieldable resistance to the pressure on the plates.

1,389,535. RAILROAD-CROSSING APPARATUS. CHARLES SCHWARTZEN, Kenosha, Wis. Filed May 28, 1920. Serial No. 384,966. 2 Claims. (Cl. 39—5.)



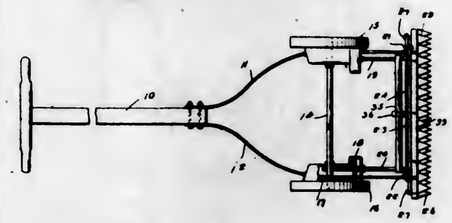
1. A railroad gate comprising a trough embedded in the ground, a gate swingingly supported within the trough and consisting of a top and bottom arranged at an incline to each other so that when the gate is in normal position the top will form the top of the trough and when in operative position said bottom will form the top of the trough, a cable for moving the gate to its operative position, and a spring for returning the gate to its inoperative position.

1,389,536. ROTARY VALVE. THOMAS F. SCOLLARD, Warsaw, Ind. Filed June 22, 1920. Serial No. 390,741. 2 Claims. (Cl. 123—177.)



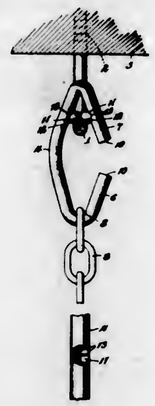
1. In a rotary valve, a casing, a valve member positioned within the casing, means for rotating the valve member, a sleeve interposed between the valve member and casing, means for supplying a cooling fluid to the interior of the valve member, a sleeve disposed within the valve member, said sleeve adapted to retain a portion of the cooling fluid within the valve member, a cover covering the upper portion of the valve member, means to permit movement of the valve member with relation to the cover, and a discharge pipe for carrying off the cooling fluid.

1,389,537. LAWN-MOWER. FRANCIS M. SHERMAN, Lewisport, Ky. Filed Mar. 24, 1920. Serial No. 368,310. 1 Claim. (Cl. 56—259.)



In a lawn mower, a frame comprising side members having spaced elements at their forward ends, the upper elements being arched, spaced upper and lower plates secured to the respective frame elements, knives disposed between the plates and having corresponding slots, fastenings connecting the plates and passing through the slots of the knives, longitudinal shafts having forward cranks, and pitmen connecting the cranks with the respective knives.

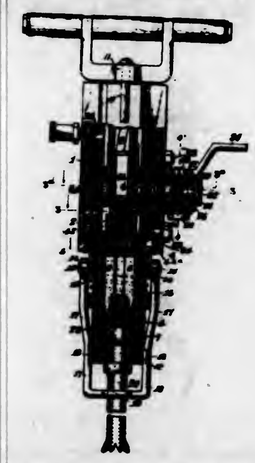
1,389,538. SWING OR HAMMOCK HANGER. WILLSON BERNARD TAYLOR, Uniontown, Pa. Filed May 14, 1921. Serial No. 469,527. 4 Claims. (Cl. 248—64.)



1. A ball bearing hanger, comprising a member having a hook at one end, the arms of said hook having on the inner side opposed concave seats, and a pair of balls mounted partially within said seats and projecting therefrom and contacting with each other.

1,389,539. ROCK-DRILL. THOMAS TURNER, Ottumwa, Iowa, assignor to Hardsocg Wonder Drill Company, Ottumwa, Iowa. Filed Apr. 4, 1918. Serial No. 226,754. 6 Claims. (Cl. 121—10.)

1. A pneumatic drill having a piston responsive to air under pressure, a drill bit with an air duct leading through it and discharging at the cutting end of the drill bit, a main duct for directing live air to the piston of the drill, a branch duct connected to the first named duct and leading to the drill bit, and a manually operable valve for controlling the flow of air to the piston and to the bit, said valve being solid axially and having a main through transverse port enlarged at one end to communicate with the inlet end of the main duct, and a branch transverse port leading off from the first named port in acute angular



relation to the wide end thereof, the branch port having communication with the branch duct, said valve being operable to bring the first named port into coincidence with the main duct to direct live air to the piston, or to bring the branch port into coincidence with the branch duct to direct live air to the drill bit, or to bring both ports into coincidence with both ducts simultaneously to direct live air to both the piston and the drill, and in the latter case with the flow of air to the piston reduced.

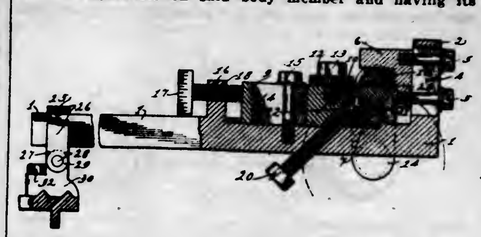
1,389,540. NAIL-STAPLE FOR BARBED WIRE. GEORGE WASHINGTON, Anderson, Tex., assignor of one-fourth to Lymus Smith, Anderson, Tex. Filed Nov. 5, 1920. Serial No. 422,022. 5 Claims. (Cl. 85—13.)



5. A fence wire fastener consisting of wood penetrating shanks disposed in substantially right angular relation and respectively provided with alined impact heads, one of said shanks being provided at an intermediate portion of its length with a lateral projection disposed at the opposite side from the other shank to serve as a stop to limit the penetration of the first named shank and as an impact head to seat the post engaging portion thereof.

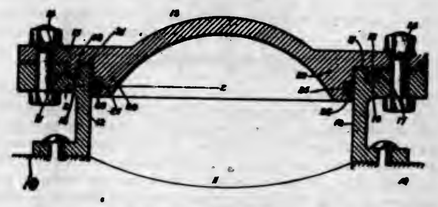
1,389,541. CRANK-PIN-TURNING TOOL. ALEXANDER WEBER, Los Angeles, Calif., assignor to Sawyer-Weber Tool Manufacturing Company, a Corporation of California. Filed Feb. 10, 1920. Serial No. 357,721. 9 Claims. (Cl. 82—4.)

1. A crank pin turning device including a body member, a block adjustable thereon and having angularly disposed bearing plates for engagement with the work, a tool adjustable on said body member and having its



cutting edge disposed in a plane cutting the axis of the work, and means for confining the work between said body and said block.

1,389,542. LEAKPROOF JOINT. HILLIARD W. WERELEY, Bayonne, N. J. Filed Mar. 25, 1919. Serial No. 284,973. 1 Claim. (Cl. 220—46.)



In a leak-proof joint, two joint members detachably connected with each other, one of the said members having an annular shoulder and an annular tongue, the said shoulder fitting into the other member and the latter having an annular groove into which extends the said tongue, a non-metallic packing on the bottom of the said groove and engaged by the end of said tongue, a packing interposed between the said members intermediate the said shoulder and the said tongue, the said shoulder being provided with an annular groove, and a resilient metallic packing ring in the said shoulder groove and bearing against the inner face of the other joint member.

1,389,543. COLLAPSIBLE HEAD-WALL FORM. GEORGE F. ZAUN, San Bernardino, Calif. Filed June 1, 1920. Serial No. 385,736. 10 Claims. (Cl. 25—131.5.)

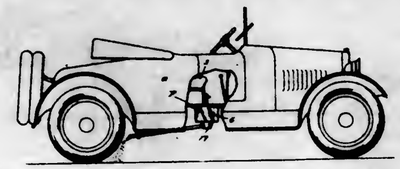


1. A mold for culverts, including a head wall provided with angularly disposed wing members at each end thereof; each of said wing members and the head wall comprising two spacedly arranged wall members formed of independent longitudinal sections arranged one above the other; detachable means for maintaining the sections of said walls in locked alinement, and means joining the wing members with one of the walls of the head wall for maintaining the former members in position.

1,389,544. SAND-BOX. EDITH BUTLER, Mercer, Pa. Filed May 19, 1921. Serial No. 470,805. 3 Claims. (Cl. 291—36.)

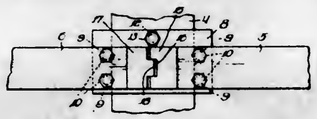
1. An automobile attachment of the class described comprising a sand box adapted to be secured beneath the flooring of a motor vehicle in proximity to the

driver's seat, an actuating rod extending through the flooring of the vehicle and valves in the bottom of said box operable by said rod for releasing the sand, and



chutes communicating with said box whereby a stream of sand may be distributed in front of the driving wheels of the automobile.

1,389,545. TRACK-JOINT. WALTER E. CLICK, Elkhart, Ind., assignor to the Godfrey Conveyor Company, Elkhart, Ind., a Corporation of Indiana. Filed June 25, 1921. Serial No. 480,286. 5 Claims. (Cl. 104—109.)

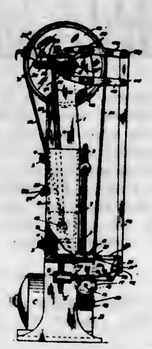


1. A track joining and securing construction comprising in association with two adjacent track ends and a transverse supporting member, a plate located between the track and member, a second plate located on the opposite side of the member, a bolt on one side of the member passing through a track and both plates, a similar bolt on the opposite side of the member passing through the adjacent track, and an additional bolt passing through the plates and the supporting member.

1,389,546. METHOD OF REMOVING WATER OF CRYSTALLIZATION FROM MAGNESIUM CHLORID. HERBERT H. DOW, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a Corporation of Michigan. Filed Sept. 24, 1919. Serial No. 325,870. 8 Claims. (Cl. 23—13.)

1. In a method of removing water of crystallization from normal magnesium chlorid containing six molecules of water, the step which consists in interfusing therewith partially dehydrated magnesium chlorid, substantially as described.

1,389,547. LIQUID-MEASURING PUMP. ERNST EGER, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed June 18, 1919. Serial No. 305,154. 5 Claims. (Cl. 103—85.)



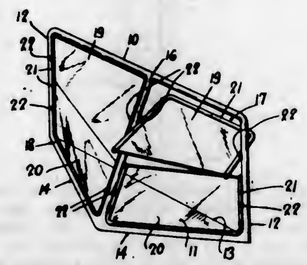
1. A pump comprising a cylinder and a piston therein, adjustable means for reciprocating the piston to vary the stroke of the piston, and adjustable connections between the piston and the means for reciprocating the piston.

1,389,548. PUMP AND SIMILAR APPARATUS. ERNST EGER, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Original application filed June 18, 1919. Serial No. 305,154. Divided and this application filed Mar. 22, 1921. Serial No. 454,432. 2 Claims. (Cl. 103—66.)



1. In apparatus of the character described, a chamber, a piston within the said chamber, inlet and outlet valves communicating with the said chamber, means for operating the said piston, a valve operating lever provided with connections with the valves whereby a movement of the lever will open the inlet valve and close the discharge valve or vice versa, and operative connections between the said valve operating lever and the piston operating means comprising a cam, lever arms adapted for alternate actuation in reverse directions by said cam, and a link connecting said arms with the valve operating lever.

1,389,549. WINDSHIELD. REYNO L. HARDIN, Blackwell, Okla. Filed Feb. 16, 1918. Serial No. 217,654. 1 Claim. (Cl. 296—84.)



A windshield for vehicles, comprising a straight upper bar adapted to be located transversely of the front edge of the vehicle top, perpendicularly arranged parallel side bars depending from the upper bar, a lower bar provided with an angular bend at a point approximately central of its ends, said bend projecting forwardly of the bottom end of the side bars and a central connecting bar disposed transversely of the frame and extending from the upper bar to the straight apex of the angular bend of the lower bar, dividing the frame into separate sections an upper and lower transparent panel pivotally mounted in each section.

1,389,550. SAND-SHIELD FOR OIL-WELLS. FRED M. HARE, Kiefer, Okla. Filed Dec. 14, 1920. Serial No. 430,687. 2 Claims. (Cl. 103—64.)



1. The combination with the apertured anchor section of oil well tubing, of a sand-shield open at its lower end and provided with an aperture adjacent to said lower end and also provided with an upper reduced end portion snugly receiving and connected to the anchor section and adapted to maintain the major portion of the shield in spaced relation about the anchor section.

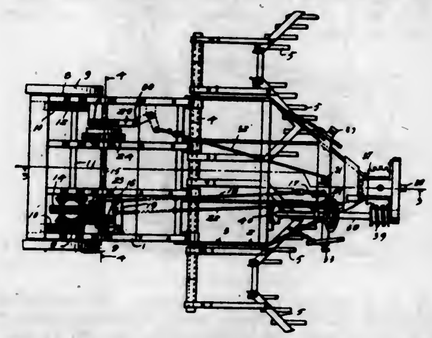
1,389,551. ADVERTISING OR DISPLAY NOVELTY. PAUL M. HENNEGAN, Cincinnati, Ohio, assignor to Frank D. Spotswood, Lexington, Ky. Filed Oct. 31, 1919. Serial No. 334,789. 1 Claim. (Cl. 40—126.)



In an advertising or display novelty of the character described, an independent dummy figure having a word space thereon, and a movable part attached to said dummy, capable of being moved off of said word space to expose the same and capable of being moved onto said word space to hide the same, a slitted part on the dummy and a tongue on the movable part, coacting to lock the movable part on the dummy, when in normal position.

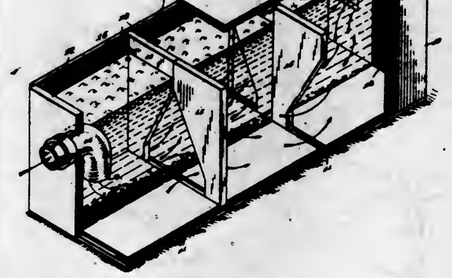
1,389,552. AGRICULTURAL TRACTOR. BENJAMIN HOLLOWELL, deceased, by Edna E. Von Stein, administratrix, Chester, W. Va. Filed July 7, 1920. Serial No. 394,577. 2 Claims. (Cl. 180—27.)

1. A tractor comprising a frame having a forward relatively low portion and a rear elevated portion, wheels journaled at the forward low portion of the frame, an engine mounted upon the low portion of the frame, means operatively connecting the engine with the wheels, a dirigible wheel located under the rear elevated portion of the frame, and means carried at the rear edge of the



lower forward portion of the frame for attachment with implements whereby the implements may operate under the rear elevated portion of the frame.

1,389,553. EXPANSIBLE SEPTIC TANK. MAX R. HYMAN, Indianapolis, Ind. Filed Mar. 14, 1921. Serial No. 451,995. 2 Claims. (Cl. 210—6.)



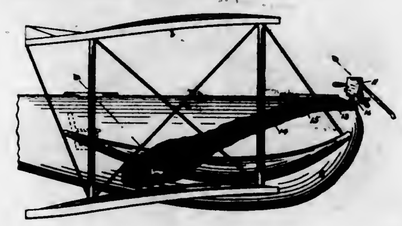
1. A septic tank formed from an interchangeable series of slab elements comprising separate top, bottom and side elements, each of said elements having a rabbet formed along each edge of one face and of substantially one half the thickness of the slab, and a two part partition, one corner of each part being absent, substantially as shown and described.

1,389,554. MOWING-MACHINE ATTACHMENT. GUSTAV JOHNSON, Duluth, Minn. Filed Feb. 3, 1921. Serial No. 442,115. 2 Claims. (Cl. 56—194.)



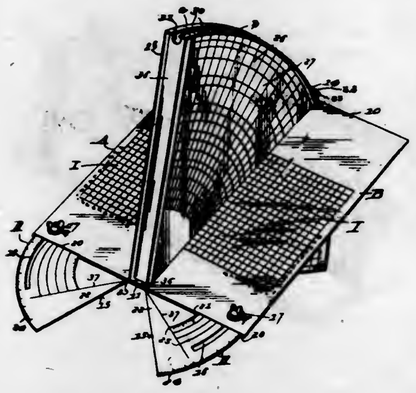
1. The combination with the cutter bar of a mowing machine of the character described, of an apron inclined rearwardly from beyond the bar, the lower edge being attached thereto and the upper corners of the apron supported upon arms rigidly carried by the cutter bar.

1,389,555. TARGET-FOLLOWING BOMB-SIGHT. BERNARD L. SMITH, Washington, D. C., EDWARD H. BARRY, Newton, Mass., and ARTHUR H. BOETTCHER, Chicago, Ill., assignors to the Government of the United States. Filed Mar. 11, 1918. Serial No. 221,838. 17 Claims. (Cl. 177—351.)



6. In a sighting device for aircraft, in combination, universally movable sighting means, indicating means including a movable arm automatically operated by movement of said sighting means in one plane, and a series of signaling elements carried by said arm operated singly by the movement of said sighting means in another plane.

1,389,556. IMPLEMENT FOR MARKING ROOF-RAFTER CUTS. WARNER A. WINN, Clarksville, Tenn., assignor to Winn Company, Clarksville, Tenn., a Corporation of Tennessee. Filed Aug. 7, 1920. Serial No. 401,845. 9 Claims. (Cl. 33—90.)



1. An instrument of the character described including a relatively flat plate adapted to be applied against one edge face of a rafter, and an approximately sector-shaped member disposed in a plane at right angles to the plane of the plate and having two edges disposed at right angles and pivotally engaged with the plate at the intersection of the edges, said member being thereby adjustable relative to the plate, the two faces of the sector-shaped member having thereon radial lines designating pitches and there being pitch scales associated with said radial lines, the outer curved edge of the sector-shaped member being graduated and there being an index member carried upon the plate with which said graduations are to be read.

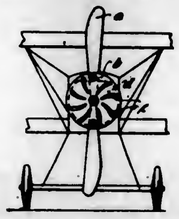
1,389,557. JOINT-CLOSURE. JOHANNES BENJAMIN EEN, Voss, Norway. Filed Feb. 18, 1920. Serial No. 359,535. 1 Claim. (Cl. 20—4.)

The combination with a wall formed of a plurality of boards placed in edge-abutting relation of a joint closing member between contiguous edges, said member comprising a paper tube, and a layer of glue on diametrically opposite exterior sides of said member for fastening it



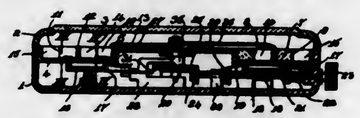
directly to said edges, said glue also forming a seal between the sides of the closing member and the contiguous edges of the boards.

1,389,558. ROTATABLE ARMOR-PLATE FOR THE PROTECTION OF THE COOLERS OF FLYING-MACHINES. ANTHONY HERMAN GERARD FOKKER, Amsterdam, Netherlands. Filed Sept. 1, 1920. Serial No. 407,541. 1 Claim. (Cl. 89—36.)



In a flying machine, a cooler, a propeller contiguous to and spaced from the cooler, and an armor plate secured to the propeller for rotation therewith and also arranged contiguous to and in front of the cooler, said armor plate having openings.

1,389,559. CODING AND DECODING DEVICE. JAMES PAUL GRIFFITHS, Durban, South Africa. Filed Mar. 19, 1921. Serial No. 453,744. 5 Claims. (Cl. 35—13.)

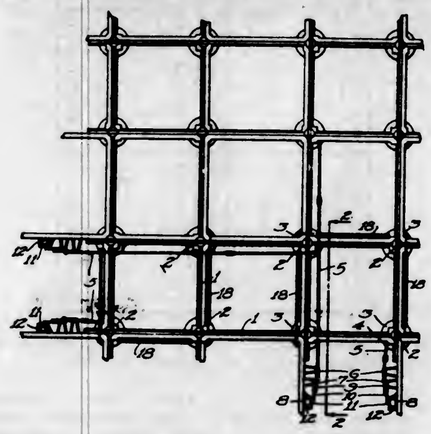


1. A coding and decoding device comprising in combination a circular case, an annular plate secured within said case and having a row of partitioned spaces, a central disk, having a row of partitioned spaces arranged concentrically with the spaces in said plate, character bearing blocks fitting in said spaces, said plate having a circular channel surrounding each row of partitioned spaces into which channels any of said blocks may be slid temporarily for the purpose of changing the ordinary arrangement of the blocks, means for preventing displacement of said blocks, a spindle and supports therefor mounted in said case, indicating pointers secured to said spindle, means for moving said pointers simultaneously over said blocks and means for altering the angular distance apart of said pointers.

1,389,560. RAILWAY-CROSSING. CLIFFORD V. HOUK and THOMAS W. BERRY, San Diego, Calif.; said Berry assignor of one-third of his right to said Houk. Filed May 27, 1920. Serial No. 384,581. 4 Claims. (Cl. 246—273.)

1. A railway crossing, including a rail frame work, a revoluble member positioned at each rail intersection, compound lever and connecting means in connection with four of said revoluble members adapted to be engaged by the flange of the vehicle wheel as it approaches said crossing for separately and progressively revolving four of said

revoluble members simultaneously a portion of a revolution and latch means in connection with said revoluble member operated by a portion only of said lever mecha-



nism for supporting said revoluble member in a certain position and for releasing the same upon the approach of a vehicle.

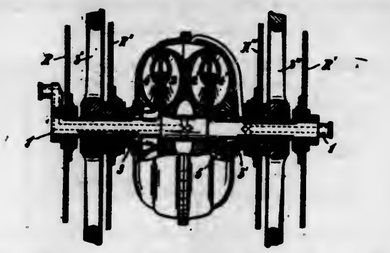
1,389,561. DEPOSIT-BOOK. GEORGE H. KENT, Watertown, Mass.; Bertha G. Kent, administratrix of said George H. Kent, deceased. Filed July 24, 1916. Serial No. 110,880. 6 Claims. (Cl. 283—52.)



1. A deposit book of the character described, comprising a plurality of coupons, each of which is provided on one face with means indicative of a deposit to be made and on the same face with a space associated with said means, and each succeeding coupon being also provided on the said face with means indicative of the preceding coupon and with a space associated with the last mentioned means for data to indicate that the prior coupon has been paid when said space has been validated.

1,389,562. VEHICLE, MORE PARTICULARLY A LOCOMOTIVE, WITH COMBUSTION-ENGINE AND LIQUID DRIVING-GEAR. HEINRICH SCHNEIDER, Baden, Switzerland. Filed June 4, 1920, Serial No. 386,591. Renewed June 27, 1921. Serial No. 480,906. 10 Claims. (Cl. 105—130.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

10. In vehicles, with liquid driving-gear comprising rotating primary and secondary parts mounted on the driving-shaft the feature that said liquid driving gear presents



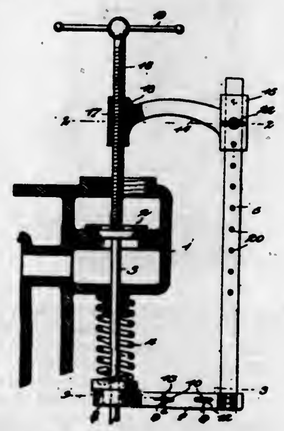
two working chambers symmetrically adapted to each other.

1,389,563. TAR-BURNER. WENZEL BOEHM, Swissvale, HOWARD S. COREY, Munhall, and LEO A. LAMBING, Pittsburgh, Pa. Filed Dec. 7, 1920. Serial No. 428,972. 6 Claims. (Cl. 158—75.)



2. The combination with the burner tube of a liquid fuel burner, of a mixer member intermediate its ends, said mixer member comprising a cylindrical body portion, said body portion being cut away to form recesses in each end a central diaphragm portion, said recessed portions being adapted to receive the burner tube, and said diaphragm having a concave rear wall and having a plurality of tubular passages formed therein, and a nozzle screw threaded on the forward end of said burner tube.

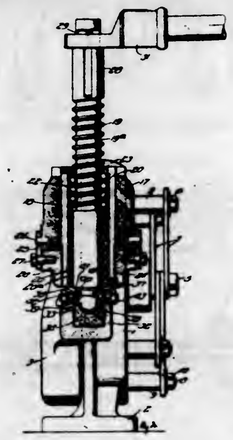
1,389,564. VALVE-LIFTER. BERNARD C. BURNEN, New York, N. Y. Filed June 29, 1920. Serial No. 392,717. 2 Claims. (Cl. 29—86.3.)



1. A valve stem lifter including a bar, a block slidable on said bar, means for adjustably locking said block on said bar, an internally threaded sleeve carried by said

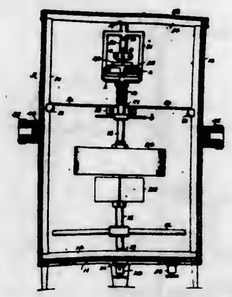
block, a screw carried by said sleeve, arms pivoted to said bar, jaws formed on said arms, and means for expanding and locking said arms, as and for the purpose set forth.

1,389,565. MACHINE ELEMENT. JOHN JENSEN, Rockford, Ill., assignor to Whitney Metal Tool Company, Rockford, Ill., a Corporation of Illinois. Filed Oct. 4, 1918. Serial No. 256,783. 2 Claims. (Cl. 74—40.)



1. In a device of the class described, two members having a telescoping relation with each other, and balls engaging both members to provide the equivalent of a screw threaded connection between them, one of said members having a spiral groove receiving the balls in fitting engagement, the substantially circular cross section of the groove being relieved or cut away adjacent the edges of the groove.

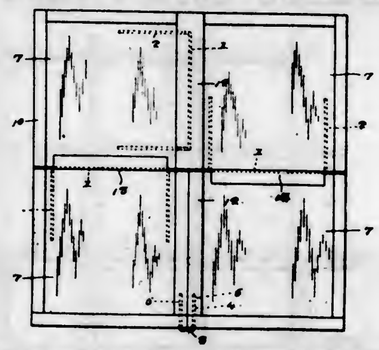
1,389,566. MAGNETIC FIRING MECHANISM FOR SUBMARINE MINES. HUDSON MAXIM, Hopatcong borough, N. J. Filed Dec. 7, 1917. Serial No. 205,917. 12 Claims. (Cl. 175—265.)



1. An orientating magnetic needle, a sensitive needle mounted therewith, and a third magnetic needle affected by the movement of the sensitive needle with respect to the orientating needle.

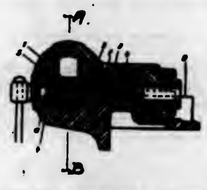
1,389,567. TABLE-PAD. WILLIAM H. NIEDERLUECKE, St. Louis, Mo. Filed June 11, 1921. Serial No. 476,726. 2 Claims. (Cl. 65—53.)

1. A foldable table pad comprising sections, U-shaped hinge members and flexible strips hingedly connecting the said sections, said U-shaped members having arms socketed in the edge portions of sections, and barrels connected



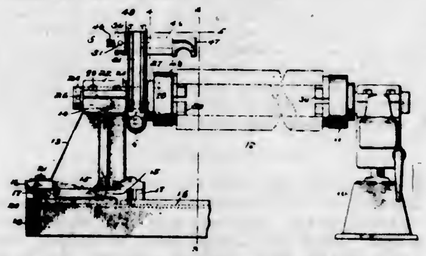
to the opposed edges of other sections and receiving the longitudinal portions of the U-shaped members.

1,389,568. VISE. CONRAD THYSSEN, Aachen, Germany, assignor to Rheinische Metallwarenfabrik Gebr. Schumacher G. M. B. H., Aachen, Germany. Filed Apr. 11, 1921. Serial No. 460,475. 1 Claim. (Cl. 81—33.)



In a vise comprising a stationary front jaw and a relatively movable rear jaw, a central longitudinal bushing formed by the front jaw, a guiding sleeve rigidly mounted in the rear jaw and shiftably extending into the bore of said bushing, an adjusting screw rotatably mounted in the front jaw, internal threads in the said sleeve adapted to match the threads of the adjusting screw, said bushing projecting for a relatively large extent below the movable jaw so as to be covered by the same, downwardly directed longitudinal wings formed at both sides of the movable jaw, the lower edges of said wings gliding on and covering corresponding smooth supporting faces formed at both sides of the rear portion of the stationary front jaw, and said coöperating faces adapted to aid in the guiding of the movable jaw and acting to prevent the latter from rotation when being adjusted.

1,389,569. DRILLING-JIG. JOHN F. FETTERLY, Altoona, Pa. Filed Dec. 18, 1919. Serial No. 345,865. 11 Claims. (Cl. 77—62.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



1. In a drilling mechanism, the combination with a work support, of an arm mounted on the work support and adjustable circumferentially around its support, and a tool guiding member mounted on the arm.

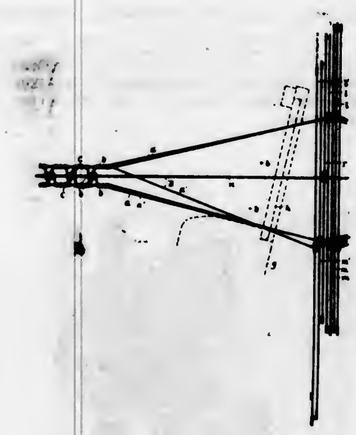
REISSUES.

15,183. ANTISKID TIRE-CHAIN. WILLIAM GRIES, Newark, N. J. Filed Sept. 25, 1916. Serial No. 412,872. Original No. 1,207,540, dated Dec. 5, 1916, Serial No. 871,773, filed Nov. 12, 1914. 5 Claims. (Cl. 152—14.)



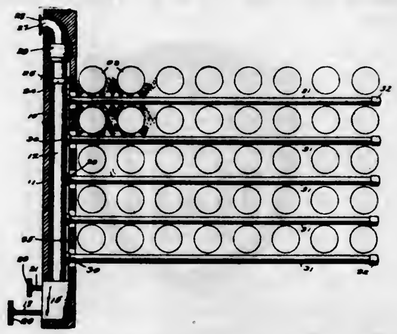
1. In a device of the class described, a plurality of tread chain units, each having a retaining ring at each end and an intermediate noose ring for receiving one of said retaining rings to form a noose to encircle the tire, and a common flexible retaining chain adapted after the nooses have been formed by the several chain units to pass through the retaining rings of each of the latter to hold the same in position, and means for adjusting the operative length of the common chain.

15,184. WEAVING OF PILE FABRICS. GEORG KOCH, Darmstadt, Germany, assignor to Ernest Cadgene and Olav Berg, Paterson, N. J. Filed Nov. 3, 1920. Serial No. 421,595. Original No. 1,305,373, dated June 3, 1919, Serial No. 270,300, filed Jan. 9, 1919. 3 Claims. (Cl. 139—71.)



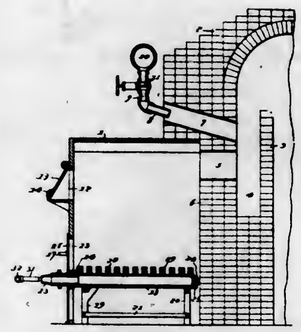
1. A pile weaving loom including, in combination, instrumentalities to support and advance the warp longitudinally in a given plane, a set of impressionable filamentous weft-supporting bodies having free ends projecting in the direction of advance of said warp, every such body in the set being arranged in approximately the same plane substantially parallel with the first plane, means to form a succession of sheds in the warp and also form other sheds of some of the warp and said bodies, and means to pass filling through the first-named sheds at the side of said bodies corresponding to the first plane and also through said other sheds at the opposite side of said bodies, said bodies being held against forward movement.

15,185. SOOT-BLOWER. WILLIAM M. MCNEILL, Logansport, Ind., assignor of one-half to Billie M. Sheffey, Rosiclare, Ill. Filed June 29, 1921. Serial No. 481,702. Original No. 1,373,750, dated Apr. 5, 1921, Serial No. 313,164, filed July 25, 1919. 6 Claims. (Cl. 122—392.)



1. In a device of the type described, a tubular member, means for supplying fluid pressure to said tubular member, said tubular member being capable of reciprocation and oscillation, a plurality of tubes having openings formed therein, said tubes communicating at one end with said tubular member, means for oscillating said tubular member comprising a casing having an opening formed therein, an extension formed in the lower end of said tubular member extending through said opening, a gear carried by said extension, a shaft mounted within the casing provided with a gear meshing with the gear on said extensions, and means for actuating said shaft, and means for reciprocating said tubular member embodying a rack formed upon said extension and a shaft rotatable within said casing and provided with a gear meshing with said rack.

15,186. KILN AND THE METHOD OF OPERATING THE SAME. LOIS M. UNDERWOOD, Dayton, Ohio. Filed Mar. 10, 1921. Serial No. 451,287. Original No. 1,337,298, dated Apr. 20, 1920, Serial No. 281,613, filed Mar. 10, 1919. 16 Claims. (Cl. 25—152.)



1. In a kiln provided with a stationary furnace and gas producer chamber, and a conduit forming a passageway from said chamber to the combustion chamber of the kiln, and an auxiliary air conduit through which additional air is supplied to the combustion chamber, a portable grate including a series of hollow tilting bars with nozzles through which steam and air are injected into said bars, a series of twyers mounted on each bar and having air passages communicating with the interior of said bars, and an individual steam injecting nozzle extended into the nozzle of each of said bars, substantially as described.

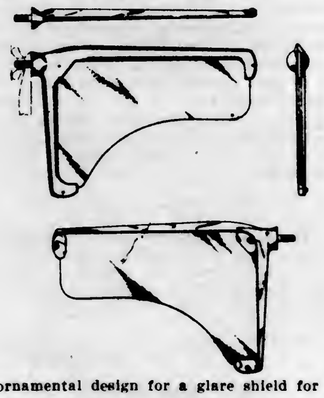
DESIGNS.

58,695. BADGE, PIN, EMBLEM, CHARM, OR SIMILAR ARTICLE. ARMIN C. H. AREND, Cincinnati, Ohio. Filed Mar. 24, 1921. Serial No. 455,167. Term of patent 14 years.



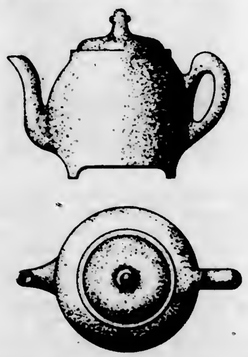
The ornamental design for a badge, pin, emblem, charm or similar article, as shown.

58,696. GLARE-SHIELD FOR VEHICLES. JOHN D. BANKS, Colwyn, Pa., assignor to Victory Manufacturing Co., of Audubon, N. J. Filed Apr. 28, 1921. Serial No. 465,234. Term of patent 14 years.



The ornamental design for a glare shield for vehicles, as shown.

58,697. TEA OR COFFEE POT. WILLIAM JOSEPH BARING, Richmond, Calif. Filed Jan. 21, 1921. Serial No. 439,032. Term of patent 14 years.



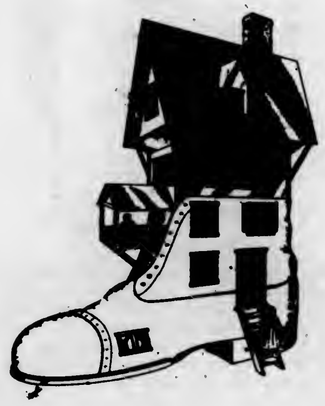
The ornamental design for a tea or coffee pot, as shown.

58,698. MOTORMETER. PETER F. BEAULIEU, Bend, Oreg., assignor of one-half to E. C. Landingham, Bend, Oreg. Filed Apr. 28, 1921. Serial No. 465,228. Term of patent 7 years.



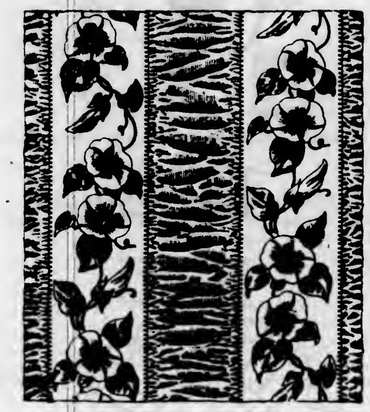
The ornamental design for a motormeter substantially as shown.

58,699. TOY. FAYETTE A. BILLMEYER, Pittsburgh, Pa. Filed Mar. 21, 1921. Serial No. 454,297. Term of patent 14 years.



The ornamental design for a toy, as shown.

58,700. TEXTILE FABRIC OR SIMILAR ARTICLE. LUCIEN BIVA, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,769. Term of patent 7 years.



The ornamental design for textile fabric or similar article substantially as shown.

58,701. TEXTILE FABRIC OR SIMILAR ARTICLE. LUCIEN BIVA, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,770. Term of patent 7 years.



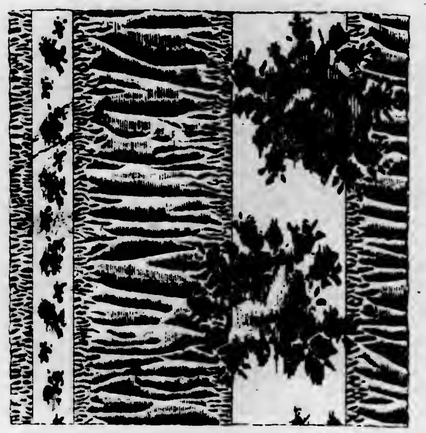
The ornamental design for textile fabric or similar article substantially as shown.

58,702. TEXTILE FABRIC OR SIMILAR ARTICLE. LUCIEN BIVA, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,771. Term of patent 7 years.



The ornamental design for textile fabric or similar article substantially as shown.

58,703. TEXTILE FABRIC OR SIMILAR ARTICLE. LUCIEN BIVA, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,772. Term of patent 7 years.



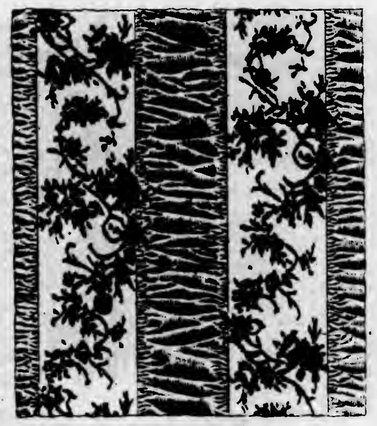
The ornamental design for textile fabric or similar article substantially as shown.

58,704. TEXTILE FABRIC OR SIMILAR ARTICLE. LUCIEN BIVA, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,773. Term of patent 7 years.



The ornamental design for textile fabric or similar article substantially as shown.

58,705. TEXTILE FABRIC OR SIMILAR ARTICLE. LUCIEN BIVA, White Plains, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,774. Term of patent 7 years.



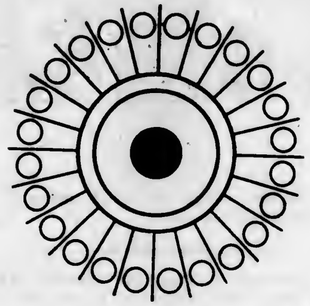
The ornamental design for textile fabric or similar article substantially as shown.

58,706. MEMORIAL BUTTON. GEORGE H. BOEGER and JOHN L. CAMPBELL, Minneapolis, Minn. Filed Apr. 2, 1919. Serial No. 287,079. Term of patent 14 years.



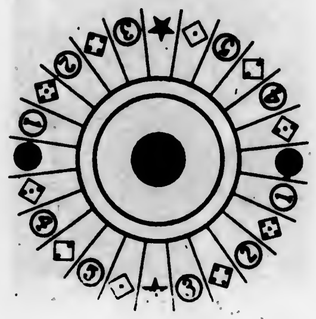
The ornamental design for a memorial button as shown.

58,707. GAME-DIAL OR SIMILAR ARTICLE. EDMUND BRUDER, Chicago, Ill. Filed June 2, 1921. Serial No. 474,570. Term of patent 7 years.



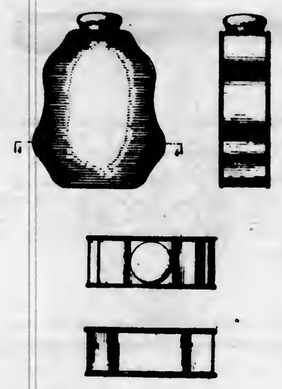
The ornamental design for a game dial or similar article as shown.

58,708. GAME-DIAL OR SIMILAR ARTICLE. EDMUND BRUDER, Chicago, Ill. Filed June 2, 1921. Serial No. 474,571. Term of patent 7 years.



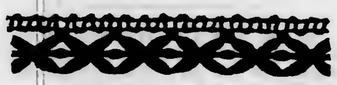
The ornamental design for a game dial or similar article as shown.

58,709. POWDER-CONTAINER. ALFRED E. BRUNS, Brooklyn, N. Y. Filed Apr. 8, 1920. Serial No. 372,367. Term of patent 14 years.



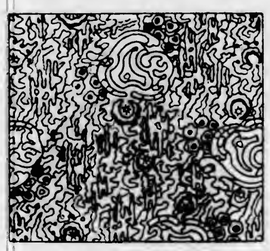
The ornamental design for a powder container as shown.

58,710. LACE. HENRY S. BROMLEY, Philadelphia, Pa., assignor to North American Lace Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 9, 1921. Serial No. 460,073. Term of patent 14 years.



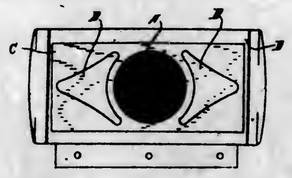
The ornamental design for lace, substantially as shown.

58,711. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,306. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,712. TAIL-LIGHT FOR VEHICLES. VEL I. CILLEY, Grand Rapids, Mich. Filed Oct. 2, 1920. Serial No. 414,374. Term of patent 14 years.



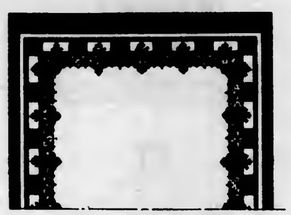
The ornamental design for a tail light for vehicles, substantially as shown and described.

58,713. GRASS RUG. ALBERT F. CLEMENTS, Oshkosh, Wis., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 10, 1921. Serial No. 451,312. Term of patent 3½ years.



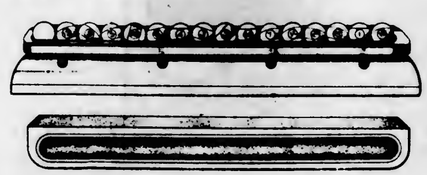
The ornamental design for a grass rug, substantially as shown.

58,714. GRASS RUG. ALBERT F. CLEMENTS, Oshkosh, Wis., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 10, 1921. Serial No. 451,313. Term of patent 3½ years.



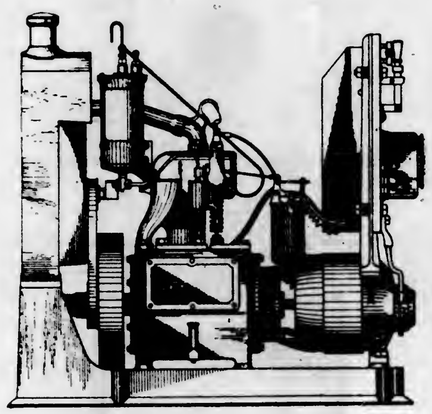
The ornamental design for a grass rug, substantially as shown.

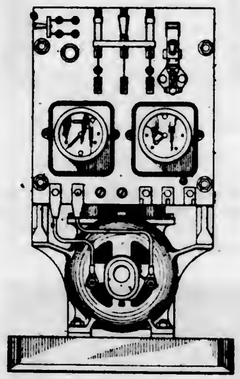
58,715. BILLIARD-TABLE RAIL. WILLIAM CONAMA, Rochester, Minn. Filed Nov. 15, 1920. Serial No. 424,311. Term of patent 14 years.

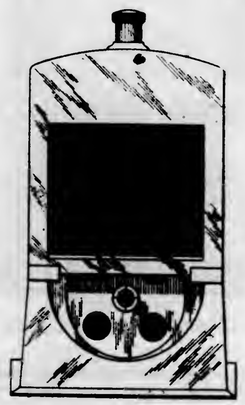


The ornamental design for a billiard table rail, as shown.

58,716. ELECTRIC AUTOMATIC PLANT. MARK CONSTANT COSGRAY, Sandusky, Ohio, assignor to The Matthews Engineering Company, Sandusky, Ohio, a Corporation of Ohio. Filed Oct. 1, 1920. Serial No. 414,124. Term of patent 14 years.







The ornamental design for an electric automatic plant, as shown.

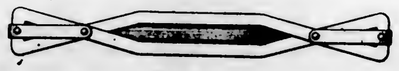
58,717. COBBLER'S TOOL. GASPARO COSTANTINO, Niagara Falls, Ontario, Canada. Filed Mar. 27, 1920. Serial No. 369,446. Term of patent 14 years.



The ornamental design for a cobbler's tool as shown.

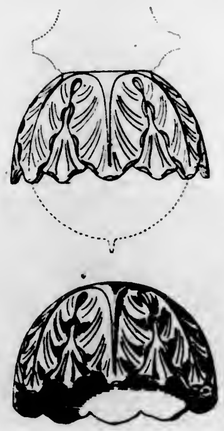
58,718. AUTOMOBILE-BUMPER. WILLIAM G. COX, Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y., a Corporation of New York. Filed May 10, 1921. Serial No. 468,426. Term of patent 7 years.





The ornamental design for an automobile bumper, as shown.

58,719. SHADE FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Dec. 30, 1920. Serial No. 434,152. Term of patent 7 years.



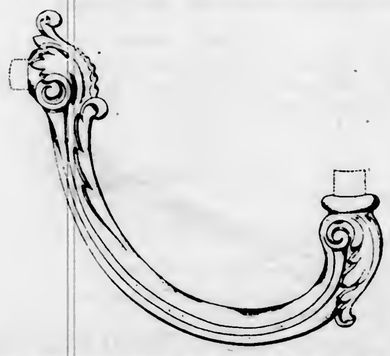
The ornamental design for a shade for lighting fixtures as shown.

58,720. BRACKET-BACK FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Dec. 30, 1920. Serial No. 434,153. Term of patent 3½ years.



The ornamental design for a bracket back for lighting fixtures as shown.

58,721. BRACKET-ARM FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Dec. 30, 1920. Serial No. 434,154. Term of patent 3½ years.



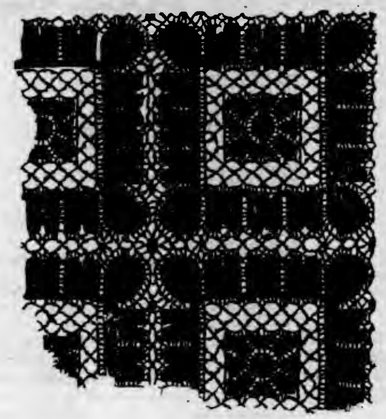
The ornamental design for a bracket arm for lighting fixtures as shown.

58,722. CANDLE-CUP FOR LIGHTING-FIXTURES. THURE DAHL, New York, N. Y., assignor to Lightolier Company, a Corporation of New York. Filed Dec. 30, 1920. Serial No. 434,155. Term of patent 3½ years.



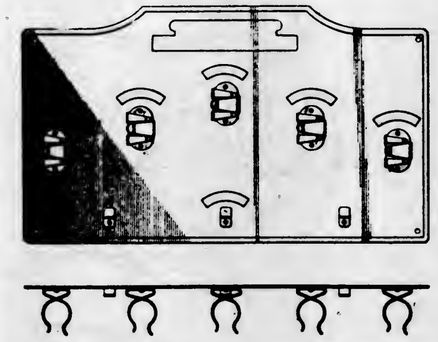
The ornamental design for a candle cup for lighting fixtures as shown.

58,723. LACE. MARC H. DAUDY, Philadelphia, Pa., assignor to North American Lace Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 19, 1921. Serial No. 453,751. Term of patent 3½ years.



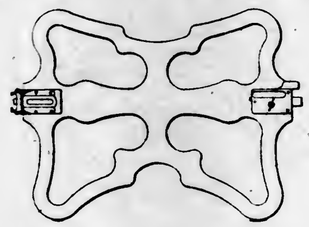
The ornamental design for lace, substantially as shown.

58,724. BRUSH AND BROOM HOLDER. MAY F. DENIS, East Orange, N. J. Filed Jan. 25, 1921. Serial No. 439,863. Term of patent 3½ years.



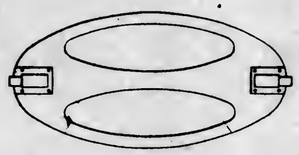
The ornamental design for a brush and broom holder, as shown.

58,725. BUTTERFLY GARMENT-RETAINER FOR WARDROBE-TRUNKS. WILLIAM W. DODGE, Mishawaka, Ind., assignor to National Veneer Products Company, Mishawaka, Ind., a Corporation of Indiana. Filed Aug. 2, 1920. Serial No. 400,877. Term of patent 14 years.



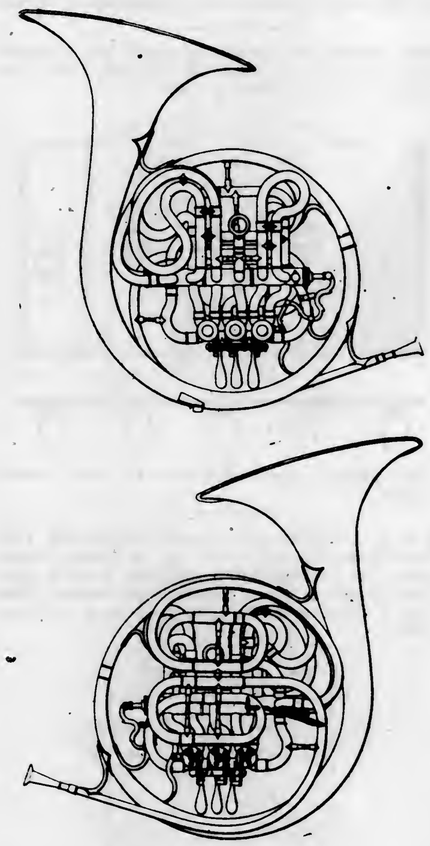
The ornamental design for a butterfly garment retainer for wardrobe trunks, as shown.

58,726. OVAL GARMENT-RETAINER FOR WARDROBE-TRUNKS. WILLIAM W. DODGE, Mishawaka, Ind., assignor to National Veneer Products Company, Mishawaka, Ind., a Corporation of Indiana. Filed Aug. 2, 1920. Serial No. 400,880. Term of patent 14 years.



The ornamental design for an oval garment retainer for wardrobe trunks, as shown.

58,727. DOUBLE HORN. ORA DOTSON, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a Corporation. Filed May 23, 1921. Serial No. 471,978. Term of patent 14 years.



The ornamental design for a double horn, as shown.

58,728. SPIKE. AUGUST DUDA, Staunton, Ill. Filed Mar. 15. 1921. Serial No. 452,546. Term of patent 7 years.



The ornamental design for a spike as shown.

58,729. LINK. AUGUST DUDA, Staunton, Ill. Filed Mar. 15, 1921. Serial No. 452,547. Term of patent 7 years.



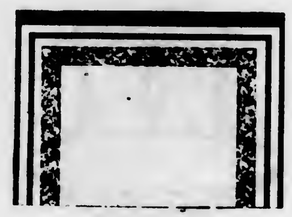
The ornamental design for a link as shown.

58,730. STRANDED LINK. AUGUST DUDA, Staunton, Ill. Filed Mar. 15, 1921. Serial No. 452,548. Term of patent 7 years.



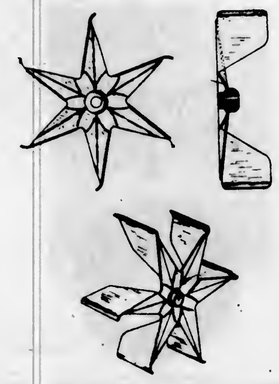
The ornamental design for a stranded link as shown.

58,731. GRASS RUG. GUSTAVE M. FAUSER, New York, N. Y., assignor to Waite Grass Carpet Company, Oskosh, Wis., a Corporation of Wisconsin. Filed Feb. 28, 1921. Serial No. 448,602. Term of patent 3½ years.



The ornamental design for a grass rug, substantially as shown.

58,732. FAN. EGBERT R. FIELD, Detroit, Mich., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich., a Corporation of Michigan. Filed Mar. 12, 1921. Serial No. 451,832. Term of patent 14 years.



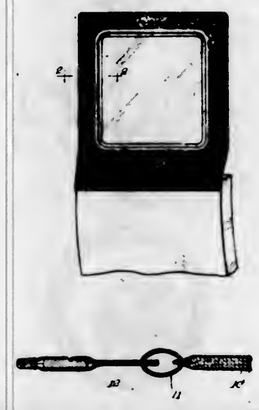
The ornamental design for a fan, substantially as shown.

58,733. COLLAR-FASTENER. WALTER E. FIELD, Providence, R. I. Filed Jan. 12, 1921. Serial No. 486,840. Term of patent 3½ years.



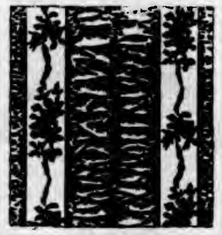
The ornamental design for a collar fastener as shown.

58,734. AUTOMOBILE-DOOR. JOSEPH JAMES FOLEY, Chicago, Ill. Filed Mar. 14, 1921. Serial No. 452,332. Term of patent 14 years.



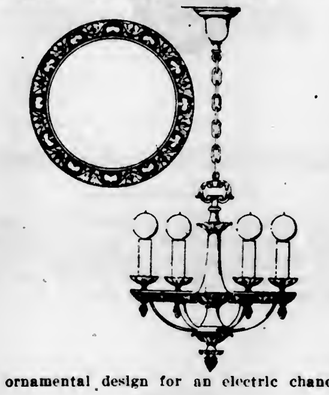
The ornamental design for an automobile door substantially as shown and described.

58,735. TEXTILE FABRIC OR ARTICLE OF SIMILAR NATURE. ALFRED FRATI, New York, N. Y., assignor to Titus Blatter & Company, New York, N. Y., a Corporation of New York. Filed Apr. 5, 1921. Serial No. 458,764. Term of patent 7 years.



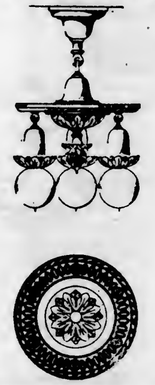
The ornamental design for textile fabric or article of similar nature substantially as shown.

58,736. ELECTRIC CHANDELIER. FREDERICK A. FREIICHS, Philadelphia, Pa., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1921. Serial No. 439,290. Term of patent 3½ years.



The ornamental design for an electric chandelier, as shown.

58,737. ELECTRIC CEILING-FIXTURE. FREDERICK A. FREIICHS, Philadelphia, Pa., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1921. Serial No. 439,291. Term of patent 3½ years.



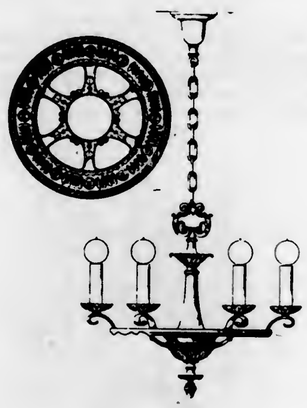
The ornamental design for an electric ceiling fixture, as shown.

58,738. ELECTRIC CHANDELIER. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1921. Serial No. 439,292. Term of patent 3½ years.



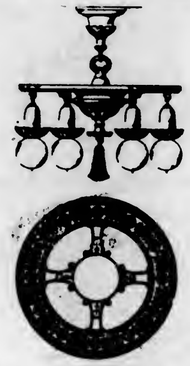
The ornamental design for an electric chandelier.

58,739. ELECTRIC CHANDELIER. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to The Horn & Brannen Manufacturing Co., Philadelhpia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1921. Serial No. 439,293. Term of patent 3½ years.



The ornamental design for an electric chandelier, as shown.

58,740. ELECTRIC CEILING-FIXTURE. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1921. Serial No. 439,294. Term of patent 3½ years.



The ornamental design for an electric ceiling fixture, as shown.

58,741. ELECTRIC WALL-BRACKET. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1921. Serial No. 439,295. Term of patent 3½ years.



The ornamental design for an electric wall bracket, as shown.

58,742. ELECTRIC CEILING-FIXTURE. FREDERICK A. FRERICHS, Philadelphia, Pa., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 22, 1921. Serial No. 439,296. Term of patent 3½ years.



The ornamental design for an electric ceiling fixture, as shown.

58,743. COTTON FABRIC FOR TENTS AND THE LIKE. WILLIAM S. FRIEDLANDER, Passaic, N. J., assignor to Tate Electrolytic Textile Processes, Incorporated, New York, N. Y., a Corporation of New York. Filed Mar. 26, 1921. Serial No. 455,996. Term of patent 14 years.



The ornamental design for cotton fabric for tents and the like substantially as shown.

58,744. COLLAR-FASTENER. STANLEY L. GEDNEY, Maplewood, N. J. Filed Feb. 16, 1921. Serial No. 445,563. Term of patent 14 years.



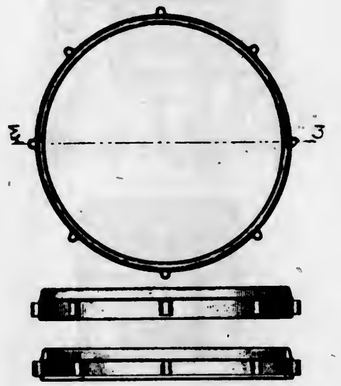
The ornamental design for a collar fastener substantially as shown.

58,745. FAVOR. ELKAN GOSLINER, San Francisco, Calif. Filed Apr. 13, 1921. Serial No. 461,100. Term of patent 14 years.



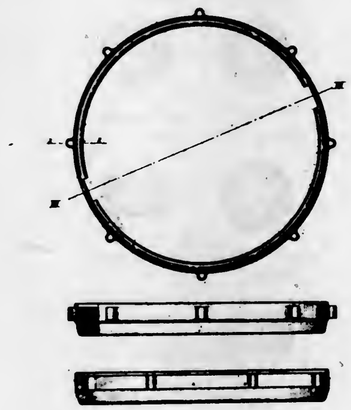
The ornamental design for a favor, as shown.

58,746. DRUM-HOOP. EDWARD J. GULICK, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a Corporation of Indiana. Filed Mar. 14, 1921. Serial No. 452,310. Term of patent 14 years.



The ornamental design for a drum hoop, as shown.

58,747. DRUM-HOOP. EDWARD J. GULICK, Elkhart, Ind., assignor to C. G. Conn, Ltd., Elkhart, Ind., a Corporation of Indiana. Filed Mar. 12, 1921. Serial No. 451,821. Term of patent 14 years.



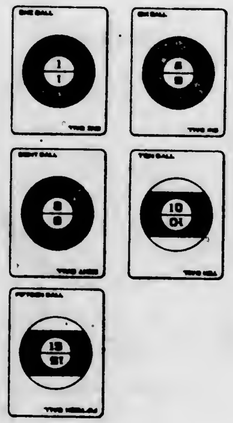
The ornamental design for a drum hoop, as shown.

58,748. PHONOGRAPH-CABINET. EDWARD F. HARPER, Philadelphia, Pa. Filed May 14, 1921. Serial No. 469,581. Term of patent 7 years.



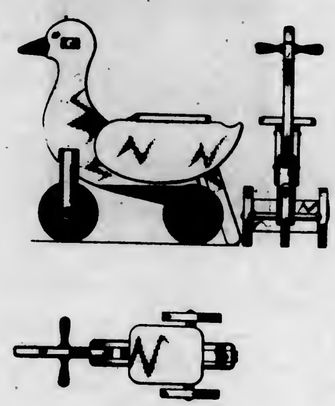
The ornamental design for a phonograph cabinet, as shown.

58,749. PACK OF GAME-CARDS. LOUIS H. HARTMAN, Pittsburgh, Pa., assignor of one-half to Charles A. Copeland, Pittsburgh, Pa. Filed Apr. 27, 1921. Serial No. 465,002. Term of patent 14 years.



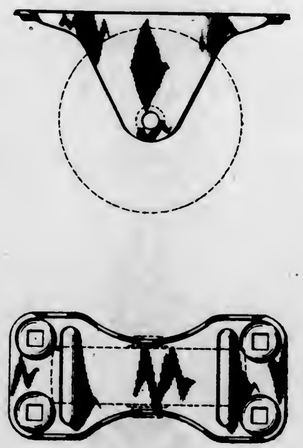
The ornamental design for a pack of game cards, as shown.

58,750. KIDDIE-CAR. HENRY CONRAD HEBIG, Hempstead, N. Y., assignor to William P. Hammond, Maplewood, N. J. Filed May 26, 1921. Serial No. 472,906. Term of patent 14 years.



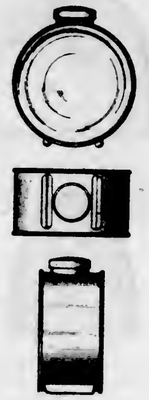
The ornamental design for a kiddie car, as shown.

58,751. TRUCK-CASTER. WALTER F. HEROLD, Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 23, 1921. Serial No. 454,913. Term of patent 14 years.



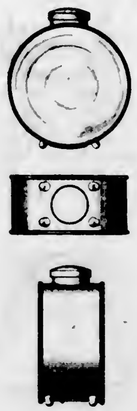
The ornamental design for a truck caster as shown.

58,752. TALCUM-POWDER BOX. EDMUND HOFFMAN, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 7, 1921. Serial No. 435,743. Term of patent 14 years.



The ornamental design for a talcum powder box, as shown.

58,753. TALCUM-POWDER BOX. EDMUND HOFFMAN, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 7, 1921. Serial No. 435,744. Term of patent 7 years.



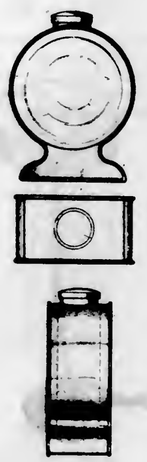
The ornamental design for a talcum powder box, as shown.

58,754. TALCUM-POWDER BOX. EDMUND HOFFMAN, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 7, 1921. Serial No. 435,745. Term of patent 14 years.



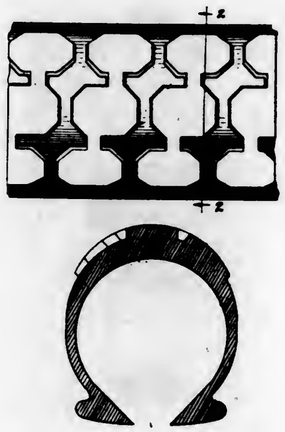
The ornamental design for a talcum powder box, as shown.

58,755. TALCUM-POWDER BOX. EDMUND HOFFMAN, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 7, 1921. Serial No. 435,746. Term of patent 7 years.



The ornamental design for a talcum powder box, as shown.

58,756. TIRE-TREAD OR SIMILAR ARTICLE. RALPH W. HUTCHENS, Eau Claire, Wis. Filed Apr. 1, 1921. Serial No. 457,828. Term of patent 14 years.



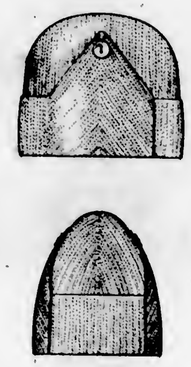
The ornamental design for a tire tread or similar article as shown and described.

58,757. SEWER'S ELECTRIC-LIGHT STAND. SIDNEY M. ISRAEL, Richmond Hill, N. Y. Filed Dec. 30, 1920. Serial No. 434,149. Term of patent 3½ years.



The ornamental design for a sewer's electric light stand, as shown.

58,758. KNITTED CAP. DAVID KARGER, Milwaukee, Wis. Filed May 21, 1921. Serial No. 471,501. Term of patent 14 years.



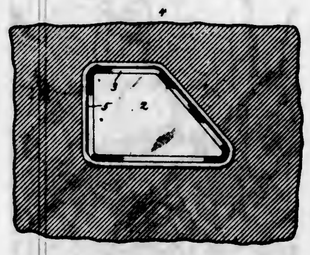
The ornamental design for a knitted cap, as shown.

58,759. GLASS VASE OR SIMILAR ARTICLE. BROR JOHNSON, Glassport, Pa., assignor to United States Glass Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 13, 1919. Serial No. 330,500. Term of patent 7 years.



The ornamental design for a glass vase or similar article as shown.

58,760. CURTAIN-WINDOW FOR VEHICLES. WILLIAM R. JOHNSTON, Chicago, Ill., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed July 23, 1920. Serial No. 398,584. Term of patent 7 years.

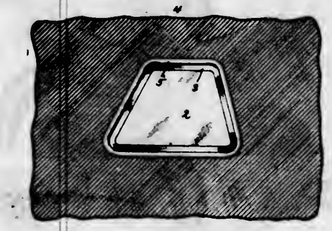


The ornamental design for a curtain window for vehicles as described and shown.

58,761. CURTAIN-WINDOW FOR VEHICLES. WILLIAM R. JOHNSTON, Chicago, Ill., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed July 23, 1920. Serial No. 398,585. Term of patent 7 years.

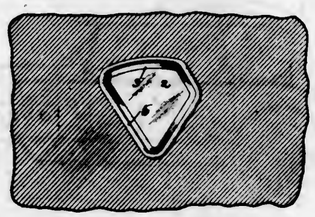
The ornamental design for a curtain window for vehicles as described and shown.

58,762. CURTAIN-WINDOW FOR VEHICLES. WILLIAM R. JOHNSTON, Chicago, Ill., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed July 23, 1920. Serial No. 398,586. Term of patent 7 years.



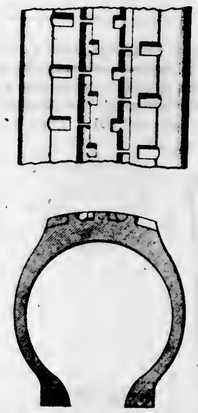
The ornamental design for a curtain window for vehicles as described and shown.

58,763. CURTAIN-WINDOW FOR VEHICLES. WILLIAM R. JOHNSTON, Chicago, Ill., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed July 23, 1920. Serial No. 398,587. Term of patent 7 years.



The ornamental design for a curtain window for vehicles as described and shown.

58,764. TIRE. WALTER P. KEITH, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Mar. 18, 1921. Serial No. 453,407. Term of patent 14 years.



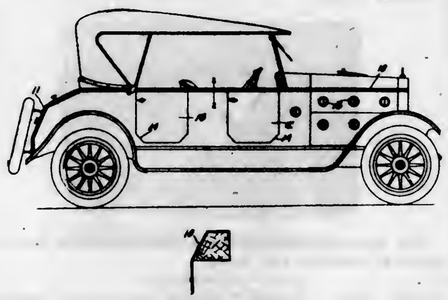
The ornamental design for a tire as shown.

58,765. CASING FOR AN ELECTRIC FAN. HAROLD RAY KELSEY and RALPH JOHN KELSEY, Pound, Wis. Filed Jan. 19, 1921. Serial No. 438,454. Term of patent 3½ years.



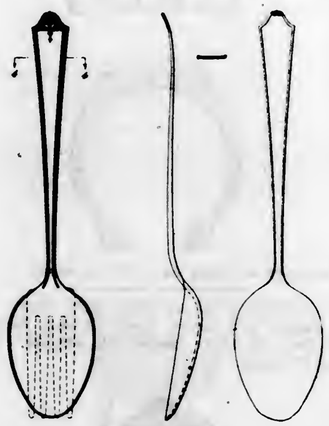
The ornamental design for a casing for an electric fan as shown.

58,766. AUTOMOBILE-BODY. WILLIAM A. KING, Memphis, Tenn. Filed Apr. 12, 1920. Serial No. 373,403. Term of patent 14 years.



The new, original and ornamental design for an automobile body as shown and described.

58,767. HANDLE FOR SPOONS, FORKS, OR SIMILAR ARTICLES. ALFRED G. KINTZ, Wallingford, Conn., assignor to International Silver Company, Wallingford, Conn., a Corporation of New Jersey. Filed May 17, 1921. Serial No. 470,487. Term of patent 14 years.



The ornamental design for a handle for spoons, forks, or similar articles as shown.

58,768. COMBINED IMPLEMENT FOR STRINGED MUSICAL INSTRUMENTS. BENJAMIN F. KNELL, Philadelphia, Pa. Filed Apr. 12, 1921. Serial No. 460,820. Term of patent 14 years.



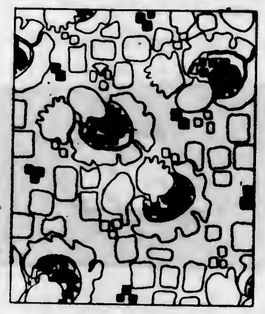
The ornamental design for a combined implement for stringed musical instruments, as shown.

58,769. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,300. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,770. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,301. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,771. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,302. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,772. LACE. THYRA OLIVIA KUMALEHTO, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,051. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

58,773. BUTTON. RICHARD KUNO, New York, N. Y., assignor to Rothschild-Kuno Button Works, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1921. Serial No. 459,164. Term of patent 3½ years.





The ornamental design for a button, as shown.

58,774. BUTTON. RICHARD KUNO, New York, N. Y., assignor to Rothschild-Kuno Button Works, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 6, 1921. Serial No. 459,165. Term of patent 3½ years.

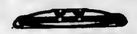




The ornamental design for a button, as shown.

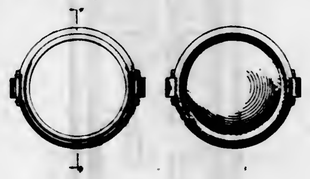
58,775. BUTTON. RICHARD KUNO, New York, N. Y., assignor to Rothschild-Kuno Button Works, Inc., New York, N. Y. a Corporation of New York. Filed Apr. 6, 1921. Serial No. 459,166. Term of patent 3½ years.





The ornamental design for a button, as shown.

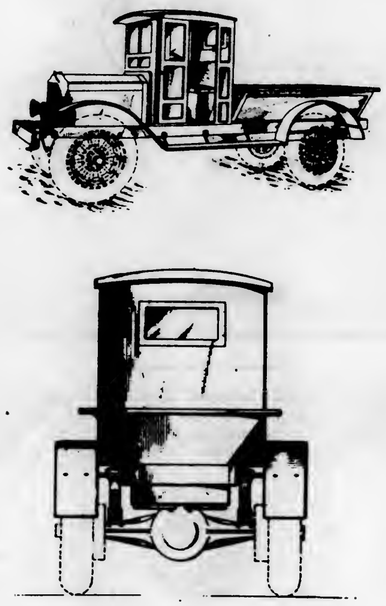
58,776. AUTOMOBILE-LAMP. LEON LAPIDUS, Brooklyn, N. Y. Filed Jan. 5, 1921. Serial No. 435,276. Term of patent 3½ years.





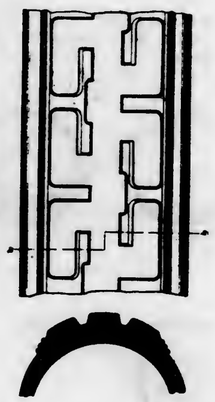
The ornamental design for an automobile lamp as shown.

58,777. BODY FOR ROAD-GRAVELERS. FENTON A. LEICHER, Luverne, Minn. Filed Feb. 8, 1921. Serial No. 443,469. Term of patent 14 years.



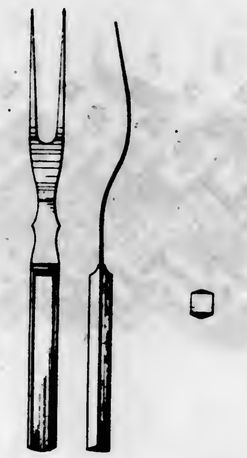
The ornamental design for a body for road gravelers, as shown.

58,778. TIRE-TREAD. ABRAHAM E. LICHTMAN, New York, N. Y. Filed Mar. 3, 1921. Serial No. 449,545. Term of patent 14 years.



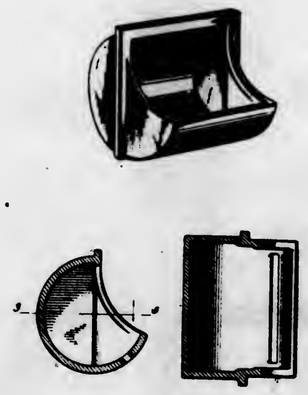
The ornamental design for a tire tread as shown.

58,779. CARVER-FORK. JOHN H. LICHERT, Evanston, Ill., assignor to Kit-Chin-Kit Corporation, Evanston, Ill., a Corporation of Illinois. Filed Mar. 5, 1920. Serial No. 363,576. Term of patent 14 years.



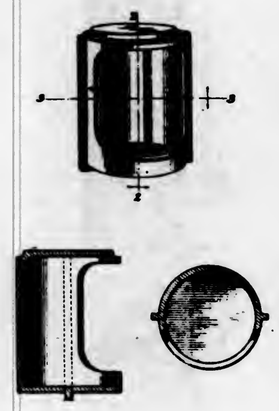
The ornamental design for a carver fork as shown.

58,780. WALL-RECEPTACLE. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio, a Corporation of New York. Filed Feb. 4, 1921. Serial No. 442,544. Term of patent 14 years.



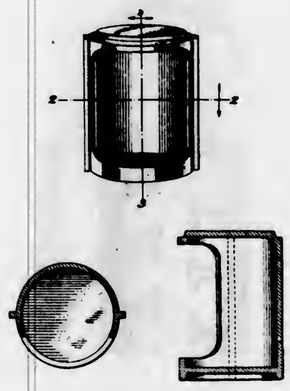
The ornamental design for a wall receptacle, as shown.

58,781. WALL-RECEPTACLE. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio, a Corporation of New York. Filed Feb. 4, 1921. Serial No. 442,545. Term of patent 14 years.



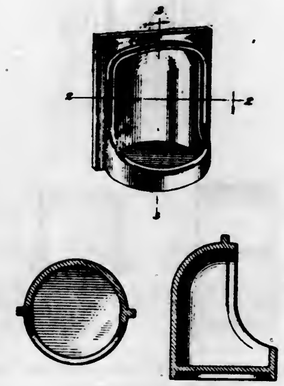
The ornamental design for a wall receptacle, as shown.

58,782. WALL-RECEPTACLE. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio, a Corporation of New York. Filed Feb. 4, 1921. Serial No. 442,546. Term of patent 14 years.



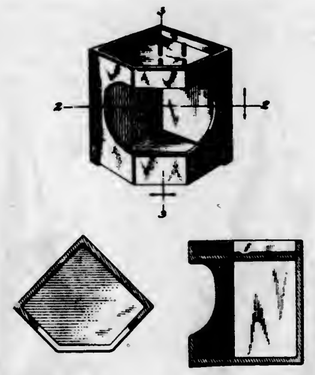
The ornamental design for a wall receptacle, as shown.

58,783. WALL-RECEPTACLE. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio, a Corporation of New York. Filed Feb. 4, 1921. Serial No. 442,547. Term of patent 14 years.



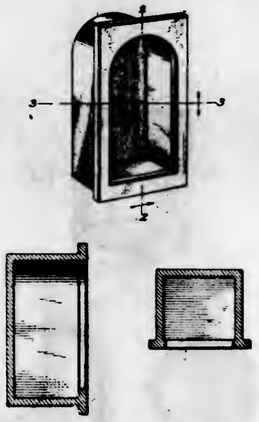
The ornamental design for a wall receptacle, as shown.

58,784. WALL CORNER-RECEPTACLE. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio, a Corporation of New York. Filed Feb. 4, 1921. Serial No. 442,548. Term of patent 14 years.



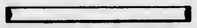
The ornamental design for a wall corner receptacle, as shown.

58,785. WALL-RECEPTACLE. HARRY D. LILLIBRIDGE, Zanesville, Ohio, assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio, a Corporation of New York. Filed Feb. 4, 1921. Serial No. 442,549. Term of patent 14 years.



The ornamental design for a wall receptacle, as shown.

58,786. COLLAR-HOLDER. HENRY C. LLUFRIO, Providence, R. I. Filed Apr. 12, 1921. Serial No. 460,813. Term of patent 3½ years.





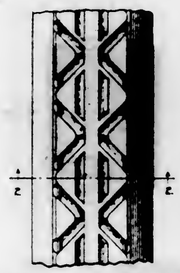
The ornamental design for a collar holder, as shown.

58,787. DOLL. ALICE NE COLA LUDWIG, Markville, Minn. Filed May 4, 1921. Serial No. 466,706. Term of patent 7 years.



The ornamental design for a doll, as shown.

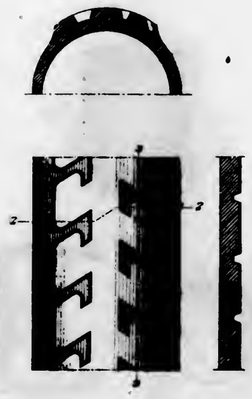
58,788. TIRE-TREAD. EDWIN F. LUMBER, Detroit, Mich., assignor to Morgan & Wright, a Corporation of Michigan. Filed Mar. 5, 1921. Serial No. 450,098. Term of patent 14 years.





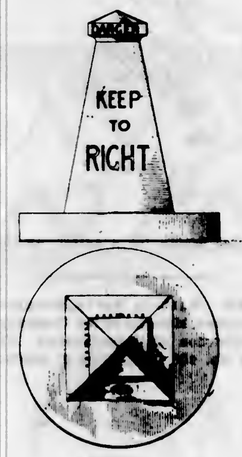
The ornamental design for a tire tread, as shown.

58,789. TIRE. ROBERT W. LYONS, Jefferson, Wis. Filed Apr. 12, 1921. Serial No. 460,809. Term of patent 7 years.



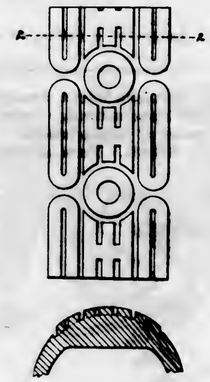
The ornamental design for a tire as shown.

58,790. STREET-LIGHTING DEVICE. HUGH J. MCGEE, Seattle, Wash. Filed Jan. 24, 1921. Serial No. 439,699. Term of patent 3½ years.



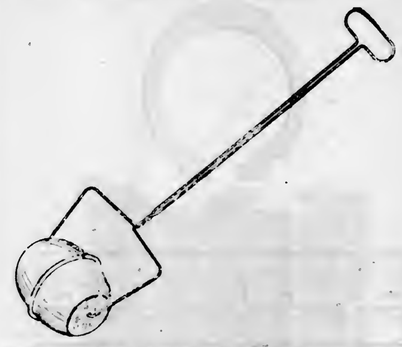
The ornamental design for a street lighting device as shown.

58,791. VEHICLE-TIRE. PATRICK J. MCHUGH, Cincinnati, Ohio. Filed Mar. 17, 1921. Serial No. 453,161. Term of patent 14 years.



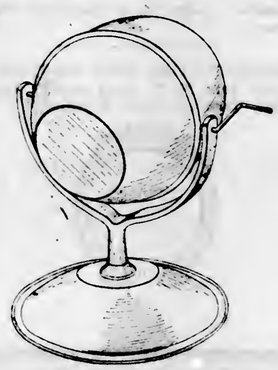
The ornamental design for a vehicle tire, as shown.

58,792. TOY. JOHN MAIER and THURMAN RICE, Canton, Ohio. Filed Apr. 29, 1921. Serial No. 465,540. Term of patent 14 years.



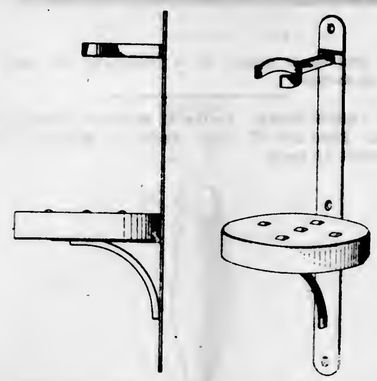
The ornamental design for a toy, as shown.

58,793. TOY. JOHN MAIER and THURMAN RICE, Canton, Ohio. Filed Apr. 29, 1921. Serial No. 465,541. Term of patent 14 years.



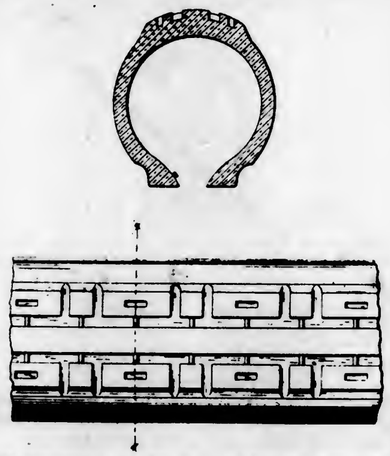
The ornamental design for a toy, as shown.

58,794. TELEPHONE-SUPPORT. LOUIS MAISEL, Buffalo, N. Y. Filed Jan. 22, 1920. Serial No. 353,338. Term of patent 14 years.



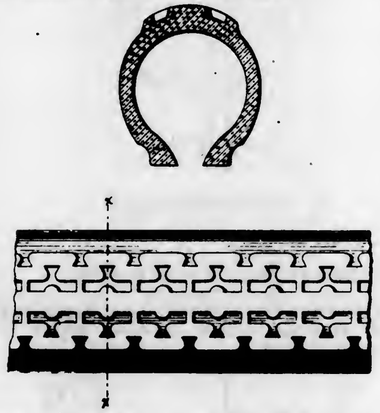
The ornamental design for a telephone support as shown.

58,795. PNEUMATIC-TIRE SHOE OR TREAD. JAMES MARTIN, New York, N. Y. Filed Feb. 10, 1921. Serial No. 444,049. Term of patent 3½ years.



The ornamental design for a pneumatic tire shoe or tread, as shown.

58,796. PNEUMATIC-TIRE SHOE OR TREAD. JAMES MARTIN, New York, N. Y. Filed Jan. 27, 1921. Serial No. 440,507. Term of patent 3½ years.



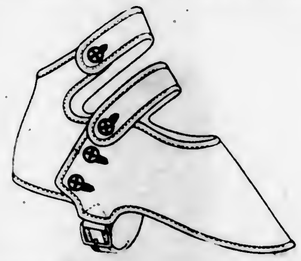
The ornamental design for a pneumatic tire shoe or tread, as shown.

58,797. SHOE-HORN. JAMES N. MAYHEW, Minneapolis, Minn. Filed Dec. 27, 1920. Serial No. 433,491. Term of patent 14 years.



The ornamental design for a shoe horn, as shown.

58,798. GAITER. WALLACE METTS, Stoughton, Mass., assignor to Kingman Manufacturing Company, Stoughton, Mass., a Corporation of Massachusetts. Filed Mar. 28, 1921. Serial No. 456,484. Term of patent 7 years.



The ornamental design for a gaiter, as shown and described.

58,799. GAITER. WALLACE METTS, Stoughton, Mass., assignor to Kingman Manufacturing Company, Stoughton, Mass., a Corporation of Massachusetts. Filed Mar. 28, 1921. Serial No. 456,486. Term of patent 7 years.



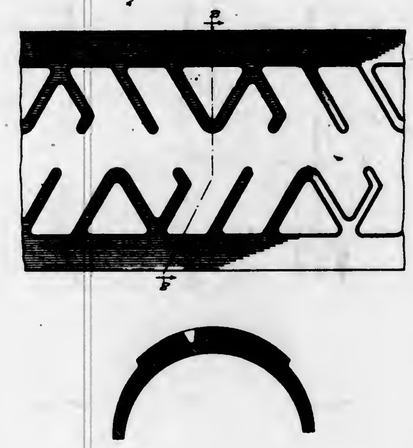
The ornamental design for a gaiter, as shown and described.

58,800. GAITER. WALLACE METTS, Stoughton, Mass., assignor to Kingman Manufacturing Company, Stoughton, Mass., a Corporation of Massachusetts. Filed Mar. 28, 1921. Serial No. 456,487. Term of patent 7 years.



The ornamental design for a gaiter, as shown and described.

58,801. TIRE-TREAD. LEROY E. MEYER, Cuyahoga Falls, Ohio, assignor to The Firestone Tire and Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Jan. 5, 1921. Serial No. 435,282. Term of patent 14 years.



The ornamental design for a tire tread, as shown.

58,802. LACE. FELIX MEYER, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 15, 1921. Serial No. 461,701. Term of patent 3½ years.



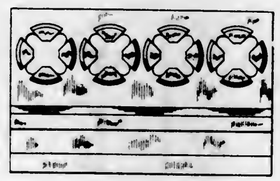
The ornamental design for lace as herein shown and described.

58,803. LACE. FELIX MEYER, New York, N. Y., assignor to Blanck & Company, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 15, 1921. Serial No. 461,702. Term of patent 3½ years.



The ornamental design for lace as herein shown and described.

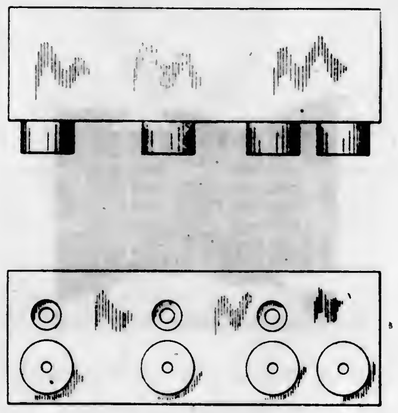
58,804. INSULATOR-SUPPORT FOR ELECTRICAL HEATING ELEMENTS. FREDERICK W. MOFFAT, Weston, Ontario, Canada. Filed Dec. 15, 1920. Serial No. 430,981. Term of patent 14 years.





The ornamental design for an insulator support for electrical heating elements, as shown.

58,805. INSULATOR-PORCELAIN FOR ELECTRIC OVENS. FREDERICK W. MOFFAT, Weston, Ontario, Canada. Filed Dec. 15, 1920. Serial No. 430,982. Term of patent 14 years.



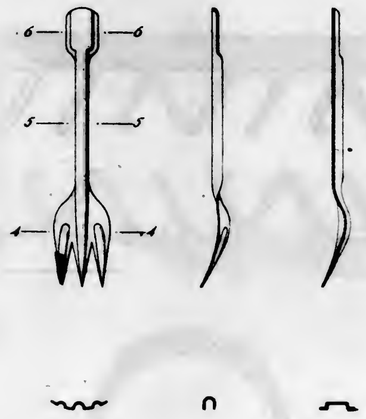
The ornamental design for an insulator porcelain for electric ovens, as shown.

58,806. INSULATOR-PORCELAIN FOR ELECTRIC OVENS. FREDERICK W. MOFFAT, Weston, Ontario, Canada. Filed Dec. 15, 1920. Serial No. 430,983. Term of patent 14 years.



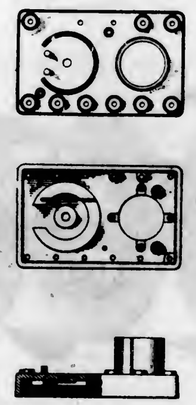
The ornamental design for an insulator porcelain for electric ovens, as shown.

58,807. PAPER FORK. GEORGE P. MALLORY, Yorklyn, Del., assignor to Sanitary Products Corporation of America, Philadelphia, Pa., a Corporation of Virginia. Filed Jan. 5, 1920. Serial No. 349,615. Term of patent 14 years.



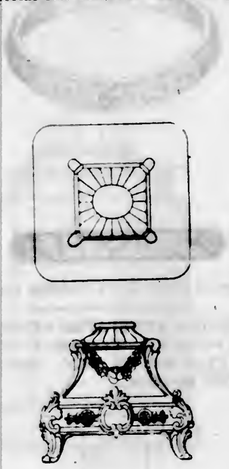
The ornamental design for a paper fork as shown.

58,808. INSTRUMENT-MOUNT FOR RADIOPANEL. ALFRED P. MORGAN, Montclair, N. J. Filed May 23, 1921. Serial No. 471,987. Term of patent 14 years.



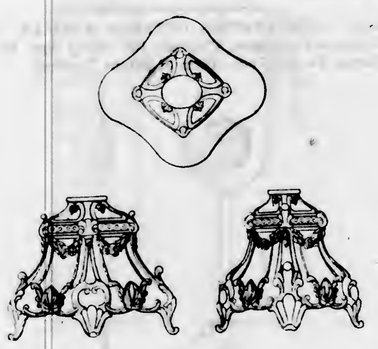
The ornamental design for an instrument-mount for radiopanel, as shown.

58,809. BASE FOR A CRUCIFIX, CANDLESTICK, OR SIMILAR ARTICLE. CHARLES S. MOSMAN, Bridgeport, Conn., assignor to The Jennings Brothers Manufacturing Company, a Corporation of Connecticut. Filed Dec. 27, 1920. Serial No. 433,484. Term of patent 7 years.



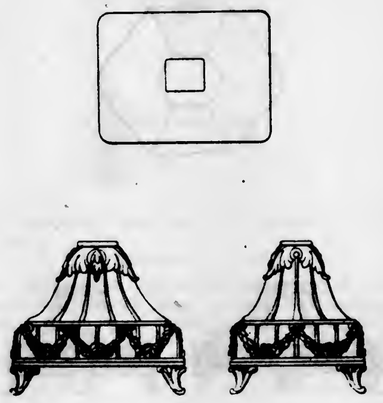
The ornamental design for a base for a crucifix, candlestick, or similar article, substantially as shown.

58,810. BASE FOR A CRUCIFIX, CANDLESTICK, OR SIMILAR ARTICLE. CHARLES S. MOSMAN, Bridgeport, Conn., assignor to The Jennings Brothers Manufacturing Company, a Corporation of Connecticut. Filed Dec. 27, 1920. Serial No. 433,485. Term of patent 7 years.



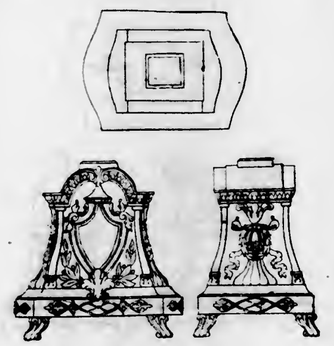
The ornamental design for a base for a crucifix, candlestick, or similar article, substantially as shown.

58,811. BASE FOR A CRUCIFIX, CANDLESTICK, OR SIMILAR ARTICLE. CHARLES S. MOSMAN, Bridgeport, Conn., assignor to The Jennings Brothers Manufacturing Company, a Corporation of Connecticut. Filed Dec. 27, 1920. Serial No. 433,486. Term of patent 7 years.



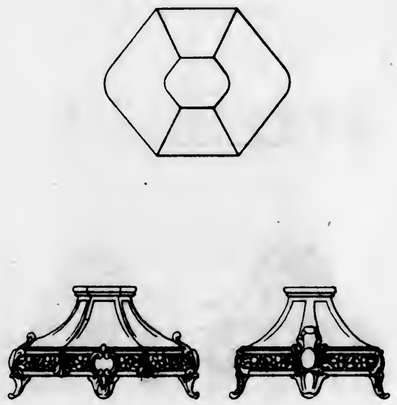
The ornamental design for a base for a crucifix, candlestick, or similar article, substantially as shown.

58,812. BASE FOR A CRUCIFIX, CANDLESTICK, OR SIMILAR ARTICLE. CHARLES S. MOSMAN, Bridgeport, Conn., assignor to The Jennings Brothers Manufacturing Company, a Corporation of Connecticut. Filed Dec. 27, 1920. Serial No. 433,487. Term of patent 7 years.



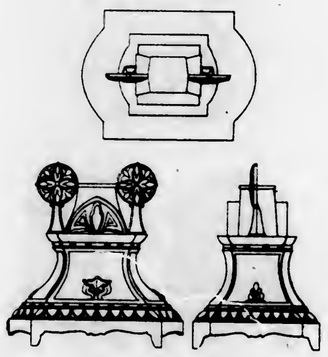
The ornamental design for a base for a crucifix, candlestick, or similar article, substantially as shown.

58,813. BASE FOR A CRUCIFIX, CANDLESTICK, OR SIMILAR ARTICLE. CHARLES S. MOSMAN, Bridgeport, Conn., assignor to The Jennings Brothers Manufacturing Company, a Corporation of Connecticut. Filed Dec. 27, 1920. Serial No. 433,488. Term of patent 7 years.



The ornamental design for a base for a crucifix, candlestick, or similar article, substantially as shown.

58,814. BASE FOR A CRUCIFIX, CANDLESTICK, OR SIMILAR ARTICLE. CHARLES S. MOSMAN, Bridgeport, Conn., assignor to The Jennings Brothers Manufacturing Company, a Corporation of Connecticut. Filed Dec 27, 1920. Serial No. 433,489. Term of patent 7 years.



The ornamental design for a base for a crucifix, candlestick, or similar article, substantially as shown.

58,815. WEDDING-RING. CHARLES B. NAMIOT, New York, N. Y. Filed Nov. 27, 1920. Serial No. 426,812. Term of patent 14 years.



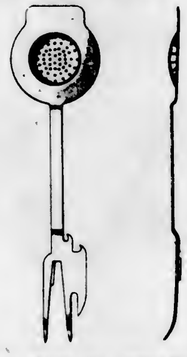
The ornamental design for a wedding ring as shown.

58,816. COMBINED NEWSPAPER-VENDING-BOX AND TRASH-RECEPTACLE. CLEMENT D. O'ROURKE, Dayton, Ohio. Filed Mar. 12, 1921. Serial No. 451,819. Term of patent 3½ years.



The ornamental design for a combined newspaper vending box and trash receptacle, as shown.

58,817. COMBINATION CUTLERY ARTICLE. STONE GUNNAR PALMBERG, Chicago, Ill. Filed Apr. 15, 1921. Serial No. 461,700. Term of patent 7 years.



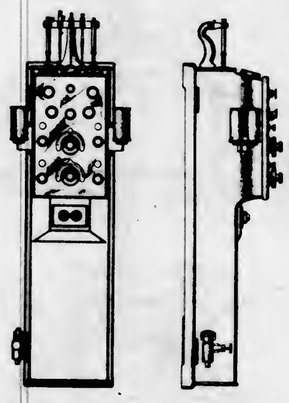
The ornamental design for a combination cutlery article as shown.

58,818. PERCOLATOR. ARCHIBALD W. PAULL, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a Corporation of West Virginia. Filed Mar. 26, 1921. Serial No. 455,989. Term of patent 14 years.



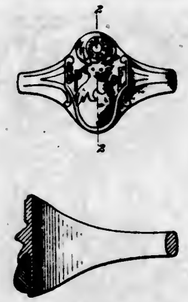
The ornamental design for a percolator, as shown.

58,819. DENTAL-APPLIANCE PANEL. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed Oct. 22, 1920. Serial No. 418,833. Term of patent 14 years.



The ornamental design for a dental appliance panel, as shown.

58,820. FINGER-RING. WILLIAM C. RAMSTEIN, Los Angeles, Calif. Filed Dec. 15, 1920. Serial No. 430,980. Term of patent 3½ years.



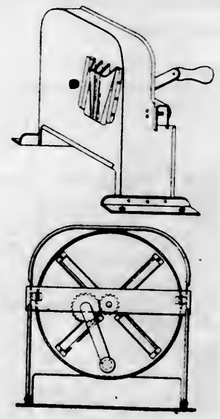
The ornamental design for a finger ring, as shown and described.

58,821. DROP-WIRE FOR LOOM-STOP MOTION. JOHN REGAN, New Bedford, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a Corporation of Massachusetts. Filed Apr. 15, 1920. Serial No. 374,235. Term of patent 14 years.



The ornamental design for a drop wire for loom stop motion, as shown.

58,822. VEGETABLE-CUTTER. OTTO REINERT, St. Louis, Mo. Filed Nov. 1, 1920. Serial No. 421,180. Term of patent 14 years.



The ornamental design for a vegetable cutter, as shown.

58,823. TEXTILE FABRIC. RUBY L. REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,307. Term of patent 3½ years.



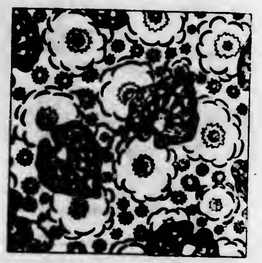
The ornamental design for a textile fabric, as shown.

58,824. TEXTILE FABRIC. RUBY L. REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,308. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,825. TEXTILE FABRIC. RUBY L. REINHART, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Feb. 3, 1921. Serial No. 442,309. Term of patent 3½ years.



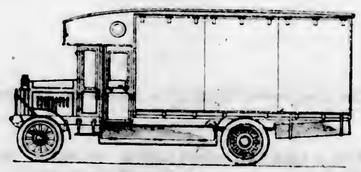
The ornamental design for a textile fabric as shown.

58,826. TIRE-TREAD. HOMER J. RICHARDS, Carrollton, Ohio, assignor to The L. & M. Rubber Company, Carrollton, Ohio, a Corporation of Ohio. Filed Mar. 23, 1920. Serial No. 368,149. Term of patent 7 years.



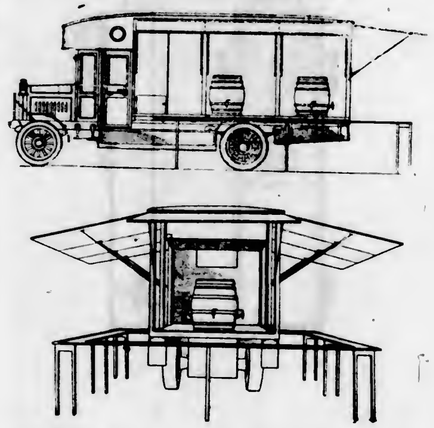
The ornamental design for a tire tread, substantially as shown.

58,827. MOTOR-VEHICLE. DURBIN RICHARDSON and CHARLES N. JACOBY, Rochester, N. Y., assignors to Richardson Corporation, Rochester, N. Y., a Corporation of New York. Filed May 2, 1921. Serial No. 466,228. Term of patent 14 years.



The ornamental design for a motor vehicle, as shown.

58,828. BEVERAGE-DISPENSING VEHICLE. DURBIN RICHARDSON and CHARLES N. JACOBY, Rochester, N. Y., assignors to Richardson Corporation, Rochester, N. Y., a Corporation of New York. Filed May 2, 1921. Serial No. 466,229. Term of patent 14 years.



The ornamental design for a beverage dispensing vehicle, as shown.

58,829. GAME-BOARD. FRANK S. ROSE, Jeannette, Pa. Filed May 23, 1921. Serial No. 471,983. Term of patent 14 years.



The ornamental design for a game-board, as shown.

58,830. CHRISTMAS-TREE SUPPORT. RICHARD ROESLER and FRANK J. ROESLER, Chicago, Ill. Filed Jan. 8, 1921. Serial No. 436,001. Term of patent 14 years.

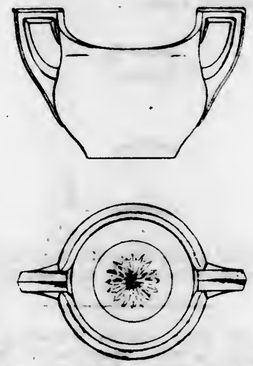




The ornamental design for a Christmas tree support as shown.

58,831. [WITHDRAWN.]

58,832. BOWL. ANDREW J. SANFORD, Newark, Ohio, assignor to A. H. Heisey & Co., Newark, Ohio. Filed Nov. 18, 1920. Serial No. 425,006. Term of patent 14 years.



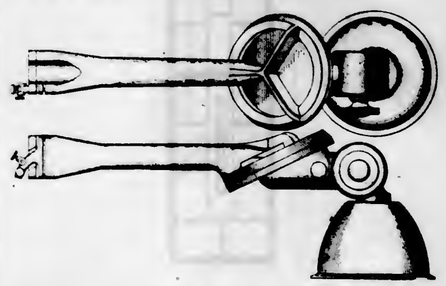
The ornamental design for a bowl substantially as shown.

58,833. BOWL. ANDREW J. SANFORD, Newark, Ohio, assignor to A. H. Heisey & Co., Newark, Ohio. Filed Nov. 18, 1920. Serial No. 425,007. Term of patent 14 years.



The ornamental design for a bowl substantially as shown.

58,834. PHONOGRAPH TONE-ARM. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert Stephen Mills, Chicago, Ill. Filed Oct. 3, 1919. Serial No. 328,295. Term of patent 14 years.



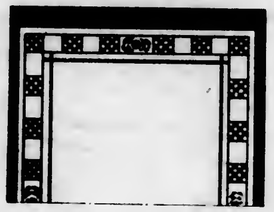
The ornamental design for a phonograph tone arm as shown and described.

58,835. SLIDE FOR RIBBON WALDEMAR, SAUTOIR, OR THE LIKE. CHARLES H. SHERMAN, North Attleboro, Mass. Filed Mar. 16, 1920. Serial No. 366,429. Term of patent 7 years.



The ornamental design for a slide for ribbon waldemar, sautoir, or the like, substantially as shown in the drawing.

58,836. GRASS RUG. SELMA SOKOLSKY, New York, N. Y., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Feb. 28, 1921. Serial No. 448,618. Term of patent 3½ years.



The ornamental design for a grass rug, substantially as shown.

58,837. ADVERTISING DEVICE. FREDERICK L. STEEG, Chicago, Ill., assignor to Thermo Clock Sign Co., Chicago, Ill., a Partnership consisting of Frederick L. Steeg and John L. Burkey. Filed Jan. 6, 1921. Serial No. 435,520. Term of patent 3½ years.



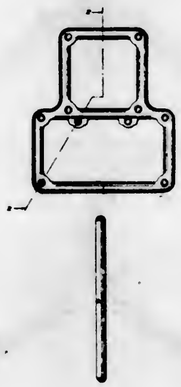
The ornamental design for an advertising device, as shown.

58,838. PENDANT SWITCH. LOUIS J. STERUN, Newark, N. J.; assignor to Beaver Machine & Tool Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 21, 1921. Serial No. 454,294. Term of patent 7 years.



The ornamental design for a pendant switch, as shown.

58,839. FRAME FOR HOLDING A NUMBER-PLATE AND ANOTHER DESIGNATING DEVICE. HERBERT A. THAYER, Providence, R. I. Filed May 2, 1921. Serial No. 466,233. Term of patent 7 years.



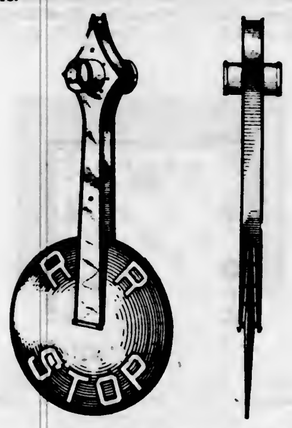
The ornamental design for a frame for holding a number plate and another designating device, as shown and described.

58,840. CARPET. HENRY L. THOMPSON, Philadelphia, Pa. Filed Nov. 6, 1920. Serial No. 422,400. Term of patent 3½ years.



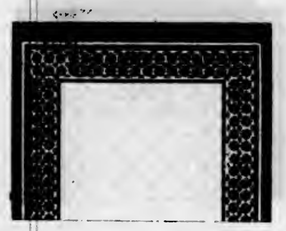
The ornamental design for a carpet as shown.

58,841. SIGNAL. ROBERT R. THOMPSON, deceased, by Mary W. Thompson, executrix, Los Angeles, Calif. Filed May 8, 1920. Serial No. 378,704. Term of patent 14 years.



The ornamental design for a signal, as shown.

58,842. GRASS RUG. CONSTANT VAN DE WALL, New York, N. Y., assignor to Waite Grass Carpet Company, Oskosh, Wis., a Corporation of Wisconsin. Filed Feb. 28, 1921. Serial No. 448,616. Term of patent 3½ years.



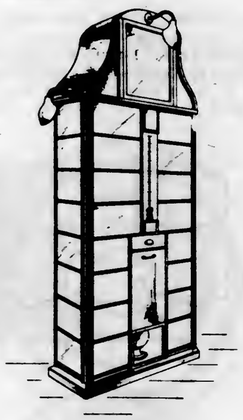
The ornamental design for a grass rug, substantially as shown.

58,843. HANDLE FOR A HAIR-CUTTER. WILLIAM J. VAN OSDEL, Chicago, Ill., assignor of one-half to Louis Sperling, Chicago, Ill. Filed Jan. 3, 1921. Serial No. 434,811. Term of patent 14 years.



The ornamental design for a handle for a hair cutter, as shown.

58,844. ADVERTISING-CABINET. WILLIAM M. WADE, Topeka, Kans., Filed Dec. 7, 1920. Serial No. 429,000. Term of patent 14 years.



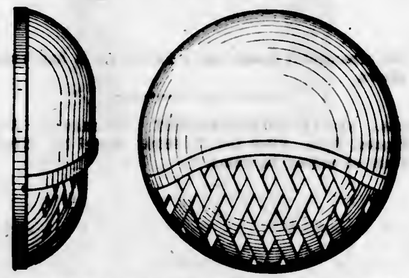
The ornamental design for an advertising cabinet, as shown.

58,845. HEADLIGHT-LENS. ULRIC WHOMAN, Ithaca, N. Y. Filed June 4, 1920. Serial No. 386,605. Term of patent 3½ years.



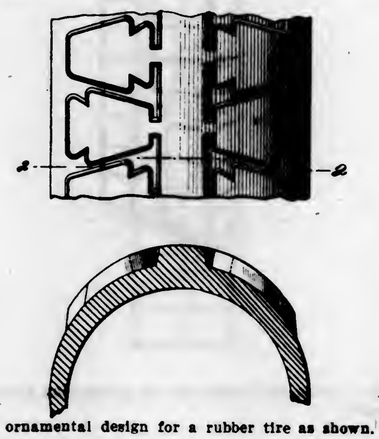
The ornamental design for a headlight lens, as shown.

58,846. GONG-CASING. MERLE J. WEST, Milwaukee, Wis., assignor to Simplex Alarm Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Mar. 10, 1921. Serial No. 451,306. Term of patent 7 years.



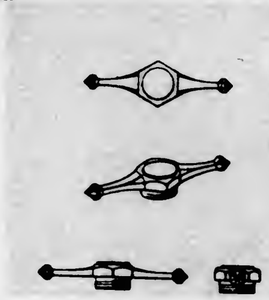
The ornamental design for a gong casing as shown.

58,847. RUBBER TIRE. DORRIS W. WHIPPLE, New York, N. Y., assignor to Keystone Tire and Rubber Company, New York, N. Y., a Corporation of New York. Filed Apr. 16, 1920. Serial No. 374,478. Term of patent 14 years.



The ornamental design for a rubber tire as shown.

58,848. RADIATOR-CAP. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed May 9, 1921. Serial No. 468,171. Term of patent 7 years.

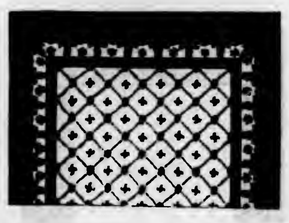


The ornamental design for a radiator cap as shown.

58,849. GRASS RUG. BLANCHE L. WIGHT, Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1921. Serial No. 456,488. Term of patent 3½ years.

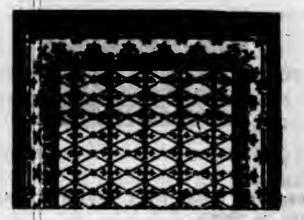
The ornamental design for a grass rug, substantially as shown.

58,850. GRASS RUG. BLANCHE L. WIGHT, Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1921. Serial No. 456,489. Term of patent 3½ years.



The ornamental design for a grass rug, substantially as shown.

58,851. GRASS RUG. BLANCHE L. WIGHT, Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1921. Serial No. 456,490. Term of patent 3½ years.



The ornamental design for a grass rug, substantially as shown.

58,852. GRASS RUG. BLANCHE L. WIGHT, Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1921. Serial No. 456,491. Term of patent 3½ years.

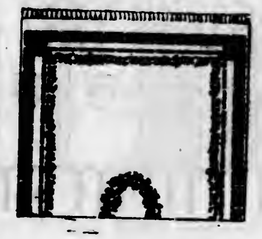
The ornamental design for a grass rug, substantially as shown.

58,853. GRASS RUG. BLANCHE L. WIGHT, Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1921. Serial No. 456,492. Term of patent 3½ years.



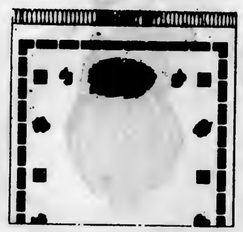
The ornamental design for a grass rug, substantially as shown.

58,854. GRASS RUG. BLANCHE L. WIGHT, Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1921. Serial No. 456,493. Term of patent 3½ years.



The ornamental design for a grass rug, substantially as shown.

58,855. GRASS RUG. BLANCHE L. WIGHT, Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis., a Corporation of Wisconsin. Filed Mar. 28, 1921. Serial No. 456,494. Term of patent 3½ years.



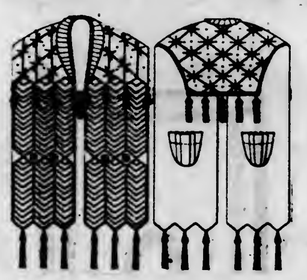
The ornamental design for a grass rug, substantially as shown.

58,856. DISK FOR DISK WHEELS. WILLIAM ERASMUS WILLIAMS, Chicago, Ill. Filed June 4, 1921. Serial No. 475,100. Term of patent 14 years.



The ornamental design for a disk for disk wheels as shown.

58,857. SCARF. NATHAN WISHNEFSKY, Philadelphia, Pa. Filed July 6, 1920. Serial No. 394,363. Term of patent 3½ years.



The ornamental design for a scarf as shown.

58,858. SIFTER-TOP RECEPTACLE. MORRIS WOLF, New York, N. Y. Filed Dec. 14, 1920. Serial No. 430,760. Term of patent 3½ years.



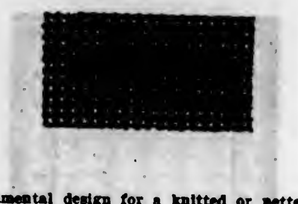
The ornamental design for a sifter top receptacle, substantially as shown.

58,859. CASING FOR A ROTARY SPARK-GAP. WILLIAM EVANS WOODS and LESTER ARTHUR BENSON, St. Louis, Mo. Filed Jan. 18, 1921. Serial No. 438,254. Term of patent 7 years.



The ornamental design for a casing for a rotary spark gap as shown.

58,860. KNITTED OR NETTED FABRIC. SIDNEY WORMS, New Rochelle, N. Y., assignor to Franklin Knitting Mills, New York, N. Y., a Corporation of New York. Filed Dec. 10, 1920. Serial No. 429,813. Term of patent 14 years.



The ornamental design for a knitted or netted fabric substantially as shown.

58,861. UMBRELLA AND PARASOL TIP. BARTHOLOMEW O. WRIGHT, New Rochelle, N. Y. Filed Mar. 28, 1921. Serial No. 456,480. Term of patent 7 years.



The ornamental design for an umbrella and parasol tip as shown.

58,862. TOY BANK. FRANK YOKEL, Hartford, Conn. Filed Apr. 26, 1921. Serial No. 464,702. Term of patent 7 years.



The ornamental design for a toy bank, as shown.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 30, 1921.

[PUBLISHED SEPTEMBER 16, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 105,163. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BEAUMONT COTTON OIL MILL CO., Dallas, Tex. Filed July 21, 1917.

BESFEED

No claim being made for the word "Besfeed" apart from the trade-mark shown in the drawing.

Particular description of goods.—Feed for Horses, Mules, Cattle, Hogs, and Poultry.

Claims use since July 1, 1917.

Ser. No. 111,637. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WESTERN ELECTRIC COMPANY, INCORPORATED, New York, N. Y. Filed June 17, 1918.

Western Electric

Particular description of goods.—Paints and Varnishes—Namely, Lacquer for Coloring Electric-Lamp Bulbs.

Claims use since January, 1910.

Ser. No. 114,065. (CLASS 2. RECEPTACLES.) ANNETTA MOELLER, Indianapolis, Ind. Filed Nov. 6, 1918.

MANICUREX

Particular description of goods.—Containers for Manicuring Preparations, Powders, and Cosmetics, Dentists', Medicinal, and Artists' Preparations.

Claims use since Aug. 1, 1918.

Ser. No. 117,544. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAS. T. STORK AND CO., INC., New York, N. Y. Filed Apr. 16, 1919.



The word "Brand" is not claimed as a part of the trade-mark. The shading-lines indicate the color blue.

Particular description of goods.—Condensed Milk.

Claims use since January, 1919.

Ser. No. 120,298. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed July 5, 1919.

WC CO INC

Particular description of goods.—Preparations Used in the Treatment of the Following Diseases: Chlorosis, Anemia, Skin Diseases, Malaria, Chorea, Cystitis, Prostatitis, Leprosy, Neurasthenia, Burns, Ulcers, Wounds, Pharyngitis, Laryngitis, Headache, Neuralgia, Urethritis, Pleurisy, Whooping-Cough, Hay-Fever, Neuritis, Uterine

and Ovarian Diseases, Goiter, Arthritis, Epilepsy, Drug Addiction, Hysteria, Mental Diseases, Tetanus, Rheumatism, Gout, Sciatica, Influenza, Tonsillitis, Diseases of Stomach, Arteriosclerosis, Insomnia, Pruritus, Tuberculosis, Bronchitis, Heart Diseases, Kidney Diseases, Pneumonia, Typhoid-Fever, Asthma, Eye Diseases, Rectal Diseases, Locomotor Ataxia, Seasickness, Syphilis, Nasal Catarrhs, Intestinal Diseases, Scrofula, Diseases of Liver,, Diseases of Ear, Diseases of Mouth, Scarlet-Fever, Measles.

Claims use since Apr. 1, 1919.

Ser. No. 120,542. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) JOHN LEHNER, Pittsburgh, Pa. Filed July 14, 1919.

The Suction with the Bulldog Grip



Particular description of goods.—Suction Devices for Dental Plates.

Claims use since Apr. 7, 1919.

Ser. No. 120,665. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GAHAN BAKING COMPANY, Worcester, Mass. Filed July 18, 1919.



No claim is made to the exclusive use of the word "Gahan."

Particular description of goods.—Doughnuts.

Claims use since May 12, 1919.

Ser. No. 124,702. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WOLFE-FARRER CO., Omaha, Nebr. Filed Nov. 8, 1919.

MOTHER'S



BRAND

No claim is made to the exclusive use of the word "Brand" apart from the mark as shown in the drawing. The picture shown in the drawing is fanciful.

Particular description of goods.—Spirits of Camphor.

Claims use since Nov. 1, 1919.

Ser. No. 128,604. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PATTIE R. JONES, Birmingham, Ala. Filed Feb. 19, 1920.



No claim being made to the word "Veribest." The portrait appearing on the drawing is that of the applicant.

Particular description of goods.—A Remedy for the Scalp and Hair and Used in the Treatment of Eczema, Tetter, and Dandruff, Cleansing the Scalp, and Promoting the Growth of the Hair.

Claims use since May 15, 1919.

Ser. No. 129,114. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) WIZARD FOOT APPLIANCE COMPANY, St. Louis, Mo. Filed Mar. 1, 1920.

LIGHTFOOT

Particular description of goods.—Corrective Foot Appliances—Namely, Arch-Builders, Callous-Removers, Heel-Levelers, Heel-Cushions, Heel-Lifts, and Bunion-Protectors.

Claims use since Feb. 4, 1920.

Ser. No. 129,696. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA VEGETABLE UNION, Los Angeles, Calif. Filed Mar. 15, 1920.

SUN-GLO

Particular description of goods.—Canned Fruits—Namely, Pears; Canned Vegetables—Namely, Tomatoes; Fresh Vegetables—Namely, Tomatoes, Asparagus, Lettuce; Fresh Fruits—Namely, Pears, Cantaloups, and Citrus Fruits—Namely, Oranges.

Claims use since Jan. 15, 1920.

Ser. No. 130,116. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) K. REINHART, Newark, N. J. Filed Mar. 24, 1920.

ROBERT TREAT

The mark claimed "Robert Treat" being the name of a historical character of the colonial period in the settlement of Newark, N. J.

Particular description of goods.—Extract of Vanilla for Food-Flavoring.

Claims use since about Apr. 11, 1918.

Ser. No. 131,348. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ORIUM COMPANY, St. Louis, Mo. Filed Apr. 19, 1920.

Laxated

Consisting of the name "Laxated."

Particular description of goods.—A Medical Compound, Specifically Pepsin Tablets for Relief of Indigestion, Constipation, General Debility, Flatulence, and Similar Disorders.

Claims use since Apr. 12, 1920.

Ser. No. 131,988. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANDARD ASPHALT & REFINING COMPANY, Jersey City, N. J., and Chicago, Ill. Filed May 3, 1920.



Particular description of goods.—Bituminous Putties.

Claims use since July, 1912.

Ser. No. 132,760. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE STONEWARD CORPORATION, New York, N. Y. Filed May 21, 1920.

DRAGON

Particular description of goods.—Lye.

Claims use since Feb. 20, 1920.

Ser. No. 132,761. (CLASS 45. BEVERAGES, NON-ALCOHOLIC. THE STONEWARD CORP., New York, N. Y. Filed May 21, 1920.

TOOT-SWEET

Particular description of goods.—Maltless Nonalcoholic Beverages Sold as Soft Drinks.

Claims use since Feb. 20, 1920.

Ser. No. 133,075. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) D. G. YUENGLING & SON, INC., Pottsville, Pa. Filed May 28, 1920.

Juvo

Particular description of goods.—A Non-Intoxicating Cereal Malt Beverage Containing Less Than One-half of One Per Cent. (.005) of Alcohol, by Volume.

Claims use since about July 1, 1919.

Ser. No. 133,110. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) SETHNESS COMPANY, Chicago, Ill. Filed May 29, 1920.

Regal

Particular description of goods.—Malt and Hop Beverages Containing Less Than One-half of One Per Cent. Alcohol, by Volume.
Claims use since 1898.

Ser. No. 133,493. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE PROTECTOGLARE CO., Los Angeles, Calif. Filed June 9, 1920.

PROTECTOGLARE

Particular description of goods.—Glare-Shields in the Form of Awnings Attachable to the Front of Automobile-Tops.
Claims use since May 25, 1920.

Ser. No. 133,567. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THOMAS L. BOYD, Chicago, Ill. Filed June 11, 1920. Under ten-year proviso.

FREEMAN

Particular description of goods.—Lard.
Claims use since the 1st day of January, 1895.

Ser. No. 133,658. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY C. FORD, Lima, Ohio. Filed June 14, 1920.

Ford's Combination Remedy for Cholera and Roupe



The picture being that of the applicant, and no claim being made to the words "Combination Remedy for Cholera and Roupe" appearing in the trade-mark apart from the same as shown.
Particular description of goods.—A Medicine for Treatment of Cholera and Roup.
Claims use since 1918.

Ser. No. 134,145. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed June 24, 1920.

WIGWAM

Particular description of goods.—Candy.
Claims use since Apr. 15, 1920.

Ser. No. 134,146. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAMOSET CHOCOLATES COMPANY, Boston, Mass. Filed June 24, 1920.

CANOE

Particular description of goods.—Candy.
Claims use since July, 1907.

Ser. No. 134,303. (CLASS 33. GLASSWARE.) CORNING GLASS WORKS, Corning, N. Y. Filed June 28, 1920.

DAYLITE

Particular description of goods.—Glass.
Claims use since Jan. 1, 1914.

Ser. No. 134,399. (CLASS 37. PAPER AND STATIONERY.) MARCUS WARD, INC., New York, N. Y. Filed June 29, 1920. Under ten-year proviso.

Royal Irish Linen
MARCUS WARD
& Co

Particular description of goods.—Writing-Paper, and in Particular for Goods Comprised in Such Class Known to the Trade as Linen Writing-Paper.
Claims use since about June, 1872.

Ser. No. 134,562. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GOODYEAR RUBBER COMPANY, New York, N. Y. Filed July 6, 1920.

GOODYEAR RUBBER CO. GOLD SEAL 1872

Particular description of goods.—Rubber Pneumatic Bicycle-Tires and Rubber Inner Tubes for Pneumatic Automobile-Tires.
Claims use on bicycle-tires since Apr. 15, 1916; automobile-tires since about July 15, 1914.

Ser. No. 135,841. (CLASS 17. TOBACCO PRODUCTS.) E. A. CONDAX & COMPANY, INC., New York, N. Y. Filed Aug. 6, 1920.



Condax

E. A. Condax & Co.

Particular description of goods.—Cigarettes.
Claims use since August, 1904.

Ser. No. 136,951. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) NEW JERSEY CAR SPRING & RUBBER CO., INC., Jersey City, N. J. Filed Sept. 8, 1920.

FLEXCAR

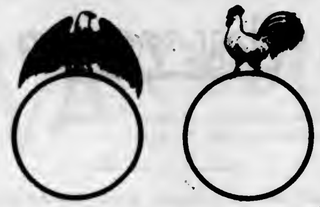
Particular description of goods.—Rubber Belting and Rubber Hose.
Claims use since Aug. 1, 1920.

Ser. No. 137,147. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE RED WING CORPORATION COMPANY, Dayton, Ohio. Filed Sept. 13, 1920.

RED WING

Particular description of goods.—Dairy Products—Namely, Ice-Cream, Milk, Cream, Butter.
Claims use since about Nov. 24, 1919.

Ser. No. 137,169. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WILLIAM L. FERRIS, New York, N. Y. Filed Sept. 14, 1920.



Particular description of goods.—Puzzles.
Claims use since Aug. 20, 1920.

Ser. No. 137,261. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT N. JONES, Crystal Springs, Miss. Filed Sept. 16, 1920.

R.N.J.

Particular description of goods.—Remedy for Piles.
Claims use since about Sept. 9, 1920.

Ser. No. 137,377. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GANDOLFO-GHIO MFG. CO., St. Louis, Mo. Filed Sept. 20, 1920.

CHECKER

Particular description of goods.—Spaghetti, Macaroni, Vermicelli, and Noodles.
Claims use since May 1, 1920.

Ser. No. 137,463. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920.

HRB

Particular description of goods.—Gun-Recoil Pads for Hand-Arms—Namely, Rifles and Shotguns—and Made Wholly or Partly of Rubber.
Claims use since about 1906.

Ser. No. 137,466. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920.

NORKA

Particular description of goods.—Gun-Recoil Pads for Hand-Arms—Namely, Rifles and Shotguns—and Made of Rubber and Leather.
Claims use since about 1913.

Ser. No. 137,769. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE EMPIRE VARNISH COMPANY, Cleveland, Ohio. Filed Sept. 30, 1920.

Uni-ver-sa

Particular description of goods.—Varnish.
Claims use since May 25, 1911.

Ser. No. 138,030. (CLASS 24. LAUNDRY APPLIANCES AND MACHINES.) VOSS BROTHERS MANUFACTURING CO., Davenport, Iowa. Filed Oct. 6, 1920.

VOSS
SEA WAVE WASHER

No claim is made to the exclusive use of the word "Washer" apart from the mark as shown.
Particular description of goods.—Laundry-Washing Machines.
Claims use since June 12, 1920.

Ser. No. 138,152. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHARLES ALFRED WALDECK COMPANY, INC., Baltimore, Md. Filed Oct. 9, 1920.

DESAVAPOR

Particular description of goods.—Vaporising Chemicals to be Used for the Treatments of Pulmonary Diseases, Such as Cold, Catarrhal Troubles, and for Asthma and Similar Diseases of the Respiratory Organs.
Claims use since July 1, 1920.

Ser. No. 138,161. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) EAGLE TIRE PATCH CO., Moberly, Mo. Filed Oct. 11, 1920.



No exclusive claim being made to the representation of an automobile tire or tube apart from the mark shown.
Particular description of goods.—Rubber Patches.
Claims use since Jan. 1, 1920.

Ser. No. 138,243. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE THORO PRODUCTS MFG. CO., Denver, Colo. Filed Oct. 12, 1920.

THORO

Particular description of goods.—Bluing and Ammonia.
Claims use since about Sept. 15, 1916.

Ser. No. 138,367. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) WOVEN DOWN DUSTER COMPANY, Chicago, Ill. Filed Oct. 15, 1920. Under ten-year proviso.

WOVEN DOWN

Particular description of goods.—Dust-Brushes.
Claims use since Sept. 24, 1889.

Ser. No. 139,040. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. A. LIEDEL & SON, Springfield, Ill. Filed Nov. 1, 1920.



Particular description of goods.—Cornmeal, Graham Flour, Whole-Wheat Flour, and Dairy, Horse, Hog, Cattle, and Hen Feeds.
Claims use since Aug. 1, 1920.

Ser. No. 139,529. (CLASS 27. HOROLOGICAL INSTRUMENTS.) SIGSBIE GUTTER, New York, N. Y. Filed Nov. 11, 1920.

Readwell

Particular description of goods.—Watches, Watchcases, and Watch-Movements.
Claims use since July 1, 1920.

Ser. No. 139,975. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IROKESE TRADING CORPORATION, New York, N. Y. Filed Nov. 22, 1920.

HAPPY HOMES

Particular description of goods.—Rubber, Composition, Textile, Celluloid, Wooden, Paper, and Metal Toys—to wit, Boxed Sets of Toy Building-Blocks, Toy Implements for Use in Toy Building Construction, Toy Forms for Use in Toy Building Construction, Toy Building Materials Such as Small Bags of Cement, and Boxed Sets of Toy Building-Blocks, Toy Implements, Toy Forms, and Toy Materials for Use in Toy Building Construction, Dolls, Sleds, Toy Rubber Balls, Toy Pyroxylin Balls, Floating Figures, Tenpins, Bowling Sets, Bagatelle, Children's Velocipedes, and Toy Coaster-Wagons, Horns, Trumpets, Tops, Rattles, Roller-Skates, Marbles, Carts, Animals.
Claims use since Nov. 11, 1920.

Ser. No. 139,976. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IROKESE TRADING CORPORATION, New York, N. Y. Filed Nov. 22, 1920.

O M S

Particular description of goods.—Rubber, Composition, Textile, Celluloid, Wooden, Paper, and Metal Toys—to wit, Boxed Sets of Toy Building-Blocks, Toy Implements for Use in Toy Building Construction, Toy Forms for Use in Toy Building Construction, Toy Building Materials Such as Small Bags of Cement, and Boxed Sets of Toy Building-Blocks, Toy Implements, Toy Forms, and Toy Materials for Use in Toy Building Construction, Dolls, Sleds, Toy Rubber Balls, Toy Pyroxylin Balls, Floating Figures, Tenpins, Bowling Sets, Bagatelle, Children's Velocipedes, and Toy Coaster-Wagons, Horns, Trumpets, Tops, Rattles, Roller-Skates, Marbles, Carts, Animals.
Claims use since Nov. 11, 1920.

Ser. No. 139,977. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) IROKESE TRADING CORPORATION, New York, N. Y. Filed Nov. 22, 1920.

LITTLE MASON

Particular description of goods.—Rubber, Composition, Textile, Celluloid, Wooden, Paper, and Metal Toys—to wit, Boxed Sets of Toy Building-Blocks, Toy Implements for Use in Toy Building Construction, Toy Forms for Use in Toy Building Construction, Toy Building Materials Such as Small Bags of Cement, and Boxed Sets of Toy Building-Blocks, Toy Implements, Toy Forms, and Toy Materials for Use in Toy Building Construction, Dolls, Sleds, Toy Rubber Balls, Toy Pyroxylin Balls, Floating Figures, Tenpins, Bowling Sets, Bagatelle, Children's Velocipedes, and Toy Coaster-Wagons, Horns, Trumpets, Tops, Rattles, Roller-Skates, Marbles, Carts, Animals.
Claims use since Nov. 11, 1920.

Ser. No. 140,326. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HORINE & BOWEY COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

VAN-COU

Particular description of goods.—Imitation-Vanilla Extract.
Claims use since 1919.

Ser. No. 140,402. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY PAULSON, Chicago, Ill. Filed Nov. 29, 1920.

MERITAS

Consists of the word "Meritas."
Particular description of goods.—Flat Files, Half-Round Files, Elliptic Files, Round Files, Square Files, Needle-Files, Mill-Graining Tools, Flat Gravers, Round-Edge Gravers, Square Gravers, Lining-Gravers, Jewelers' Pointed Tweezers, Jewelers' Stub-End Tweezers, Watchmakers' Pointed Tweezers, Watchmakers' Stub-End Tweezers, Watchmakers' Special Pliers, Jewelers' Special Pliers, Opticians' Special Pliers, Regular Snipe-Nose Pliers, Regular Flat Pliers, Regular End-Cutting Pliers, Regular Side-Cutting Pliers, Pivoting Gravers.
Claims use since Nov. 1, 1920.

Ser. No. 140,494. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY M. GRIFFIN, Peekskill, N. Y. Filed Dec. 1, 1920.



Particular description of goods.—Headache and Neuralgia Remedy.
Claims use since Sept. 2, 1920.

Ser. No. 140,621. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) TOYTOWN MANUFACTURING COMPANY, Minneapolis, Minn. Filed Dec. 4, 1920.

HORSCYCLE

Particular description of goods.—Toy Wooden Horses Mounted on Wheels.
Claims use since Aug. 1, 1919.

Ser. No. 140,837. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) B. M. HUTCHISON, Plymouth, England. Filed Dec. 9, 1920.

GOLFAIRIF

Consists of the word "Golfairie."
Particular description of goods.—A Game Apparatus Comprising Rings and Inflated Balls for Use in Playing a Parlor Game.
Claims use since Mar. 22, 1920.

Ser. No. 140,875. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) JOHN DUNN, SON & CO., New York, N. Y. Filed Dec. 10, 1920.

GUANACO

Consists of the word "Guanaco."
Particular description of goods.—Coal, Wood, Gas, and Oil Stoves and Ranges.
Claims use since January, 1879.

Ser. No. 140,988. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CHILDREN'S VEHICLE CORPORATION, East Templeton, Mass. Filed Dec. 13, 1920.

JINGLE KAR

Particular description of goods.—Play-Cars on Which Children May Ride.
Claims use since Dec. 6, 1920.

Ser. No. 140,990. (CLASS 37. PAPER AND STATIONERY.) CONTINENTAL PAPER & BAG MILLS, New York, N. Y. Filed Dec. 13, 1920.

CONTINENTAL

Particular description of goods.—Wrapping-Paper, Paper Towels, Paper Napkins, Toilet-Paper.
Claims use since 1894 on toilet-paper; since April, 1900, on wrapping-paper, paper towels, and paper napkins.

Ser. No. 141,024. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER N. PAPASON, Chicago, Ill. Filed Dec. 13, 1920.

PRODUCERS AND CONSUMERS P C A ASSOCIATION

Particular description of goods.—Fresh Apples, Dressed Chickens, Fresh Potatoes, and Fresh Milk.
Claims use since Dec. 1, 1920.

Ser. No. 141,107. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) H-2-O STILL COMPANY, Baltimore, Md. Filed Dec. 15, 1920.

MILSTO

Particular description of goods.—Distilled Water, Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Oct. 1, 1920.

Ser. No. 141,250. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) HENRY CHENEY HAMMER CORPORATION, Little Falls, N. Y. Filed Dec. 18, 1920. Under ten-year proviso.

CHENEY

Particular description of goods.—Hammers and Wrenches.
Claims use since 1836.

Ser. No. 141,559. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DAVIS AND FORD, Chicago, Ill. Filed Dec. 28, 1920.

DICK-TO-JACK

Particular description of goods.—Cardboard and Pictorial Toys for Teaching Children Simple Words.
Claims use since Nov. 15, 1920.

Ser. No. 141,730. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FLORENCE B. MEEHAN, Chicago, Ill. Filed Dec. 31, 1920.

SIAM SOO

Particular description of goods.—Mechanical Dolls.
Claims use since Dec. 18, 1920.

Ser. No. 141,737. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCES WECHSLER, New York, N. Y. Filed Dec. 31, 1920.

TWILQURE

Particular description of goods.—A Shampoo and Tonic for Cleaning and Stimulating the Hair of a Person.
Claims use since Dec. 15, 1919.

Ser. No. 141,808. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) F. E. SMITH, Palma Sola, Fla. Filed Jan. 3, 1921.

LONE PALM



Particular description of goods.—Guava Jelly, Canned Guavas, Guava Marmalade and Preserves, Orange Marmalade.
Claims use since 1914.

Ser. No. 141,894. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEO. F. BERKANDER, Providence, R. I. Filed Jan. 6, 1921.

SHIMMIKINS

Particular description of goods.—Dolls.
Claims use since Nov. 20, 1920.

Ser. No. 142,386. (CLASS 37. PAPER AND STATIONERY.) CHEMICAL PAPER MANUFACTURING CO., Holyoke, Mass. Filed Jan. 18, 1921.

Doeskin

Particular description of goods.—Cover-Paper.
Claims use since Jan. 1, 1920.

Ser. No. 142,701. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE ELECTROZONE WATER COMPANY, Oklahoma, Okla. Filed Jan. 24, 1921.

Electrozone EVERY BOTTLE SEALED

The words "Sterilized by Electricity and Ozonated" and "Every Bottle Sealed" appearing on the accompanying drawing are disclaimed as a part of the trade-mark.
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Purified Drinking-Water.
Claims use since May 1, 1920.

Ser. No. 142,716. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NORFOLK TRUCKERS EXCHANGE, Norfolk, Va. Filed Jan. 24, 1921.

VIRGINIA DIAMOND NE

BRAND

No claim is made for the word "Brand."
Particular description of goods.—Fresh Potatoes.
Claims use since Oct. 1, 1920.

Ser. No. 142,795. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GRANT E. POLLOCK, Clinton, Ill. Filed Jan. 26, 1921.

SAFETY ZIPPER

No claim being made to the exclusive use of the word "Safety" apart from the mark shown in the drawing.
Particular description of goods.—Coaster-Sleds.
Claims use since about May 1, 1920.

Ser. No. 143,170. (CLASS 33. GLASSWARE.) THE INSEL COMPANY, Newark, N. J. Filed Feb. 4, 1921.

"INSELITE"

Consisting of the word "Inselite."
Particular description of goods.—Non-Breakable Lamp-Lenses.
Claims use since Nov. 24, 1920.

Ser. No. 143,250. (CLASS 37. PAPER AND STATIONERY.) HERMAN C. BOSCHEN, Richmond, Va. Filed Feb. 7, 1921.



The horizontal lines indicate shading only, no rights being claimed for the words "Shopping Check" apart from the other feature of the mark.

Particular description of goods.—Blank Forms for Checks, Shopping-Checks, Promissory Notes, and Drafts.

Claims use since about Jan. 28, 1921.

Ser. No. 143,326. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KALASHIAN BROS. INC., Worcester, Mass. Filed Feb. 8, 1921.



No claim is made to the words "Ice Cream, Kisses, Inc., Worcester, Mass., 1900 Est., 1917 Inc. Velvet" apart from the mark shown in the drawing.

Particular description of goods.—Ice-Cream and Candy Kisses.

Claims use since Apr. 1, 1917.

Ser. No. 143,550. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EUCATOL CO., Quincy, Ill. Filed Feb. 14, 1921.



No claim is made to the characters "25c" apart from the mark shown.

Particular description of goods.—Emollient Antiseptic Medicine.

Claims use since Jan. 18, 1890.

Ser. No. 143,788. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY N. SHOR, Philadelphia, Pa. Filed Feb. 18, 1921.

SWEET AIR

Particular description of goods.—Tooth-Paste, Tooth-Powder, Mouth-Wash, Gas, and Extracting Fluids.

Claims use since Jan. 1, 1916.

Ser. No. 143,825. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAPPIN & WEBB LIMITED, London and Sheffield, England. Filed Feb. 19, 1921.

MAPWEB

Particular description of goods.—Cutlery, and particularly Pocket Knives and Forks, Scissors, Razors, Safety-Razors, Fish-Eaters, Fish-Carvers, Table-Knives, Table-Forks, Dessert-Knives, Dessert-Forks, Tea-Knives, Fruit-Knives, Nutcrackers, Salad-Servers, and Pastry-Forks, All Made of Base Metal.

Claims use since Feb. 24, 1911.

Ser. No. 143,910. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CONNER & WALTERS COMPANY, Charlotte, N. C. Filed Feb. 23, 1921.

Conco

Particular description of goods.—Hair-Tonic.

Claims use since June 1, 1918.

Ser. No. 143,916. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland. Filed Feb. 23, 1921.

IPECOPAN

Particular description of goods.—An Expectorant Employed in Case of Bronchitis, Whooping-Cough, &c.

Claims use since May 6, 1920.

Ser. No. 143,917. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland. Filed Feb. 23, 1921.

TONOPAN

Particular description of goods.—Antispasmodic and Sedative Given for Intestinal Affections.

Claims use since May 6, 1920.

Ser. No. 144,032. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE MIDLAND RUBBER CO. LTD., Birmingham, England. Filed Feb. 25, 1921.

AERO

Particular description of goods.—Golf-Balls.

Claims use since Aug. 2, 1910.

Ser. No. 144,314. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) THE ESTATE STOVE COMPANY, Hamilton, Ohio. Filed Mar. 5, 1921.

HEATROLA

HEATROLA

Particular description of goods.—Coal and Wood Stoves.

Claims use since Feb. 25, 1921.

Ser. No. 144,376. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BIRMINGHAM IRON FOUNDRY, Derby, Conn. Filed Mar. 7, 1921. Under ten-year proviso.

PECK

Particular description of goods.—Drop-Presses for Stamping and Forming Products of Metal, and Automatic Drop-Lifters for Lifting and Operating the Hammers of Drop-Presses.

Claims use since 1851.

Ser. No. 144,521. (CLASS 12. CONSTRUCTION MATERIALS.) GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Mar. 9, 1921.

FURNITE

Particular description of goods.—Refractory Composition for Use in Furnaces and the Like.

Claims use since September, 1920.

Ser. No. 144,530. (CLASS 37. PAPER AND STATIONERY.) ALFRED R. MAUL, Minneapolis, Minn. Filed Mar. 9, 1921.

ARMCO

Particular description of goods.—Engraved, Lithographed, or Printed Stock-Certificate Blanks, Bond-Blanks, Legal Blanks, Stock-Certificate Books, Stock-Record Books, Minute-Books, Ledgers, Cash-Books, and Blank Books Generally.

Claims use since July 1, 1919.

Ser. No. 144,609. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HEDWIG R. ELIAH, Philadelphia, Pa. Filed Mar. 11, 1921.

MISKCA

Particular description of goods.—Lard Substitutes.

Claims use since Jan. 25, 1921.

Ser. No. 144,630. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) A. MECKY COMPANY, Philadelphia, Pa. Filed Mar. 11, 1921.

VELO KING

TOT

Particular description of goods.—Foot-Propelled Toy Vehicles for Children.

Claims use since Jan. 15, 1921.

Ser. No. 144,639. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) REMIEN & KUHNERT CO., Chicago, Ill. Filed Mar. 11, 1921.

Porsolin

Particular description of goods.—Enamel Paints.

Claims use since 1913.

Ser. No. 144,733. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) MORANDI-PROCTOR COMPANY, Boston, Mass. Filed Mar. 14, 1921.



Particular description of goods.—Warming-Closets, Steam-Tables, Coffee-Urns, Vegetable-Steamers; Cast-Iron, Copper, and Aluminum Jacket Kettles, Broilers in Connection with Ranges.

Claims use since Feb. 25, 1891.

Ser. No. 144,772. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) HILTON COLLINS CO. INCORPORATED, Louisville, Ky. Filed Mar. 15, 1921.



The same being a portrait and facsimile signature of Rogers Hornsby.

Particular description of goods.—Baseball-Bats.
Claims use since Feb. 21, 1921.

Ser. No. 144,806. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) EVERS-REHM CO., New York, N. Y. Filed Mar. 16, 1921.

ERCO

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Mar. 1, 1920.

Ser. No. 144,871. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. V. OLIVER, INC., Philadelphia, Pa. Filed Mar. 17, 1921.

AUT-O-ARM

Particular description of goods.—Mechanically-Operated Traffic-Signals for Vehicles.
Claims use since about Jan. 1, 1921.

Ser. No. 145,080½. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ABRAHAM LINCOLN FRAME, Reading, Pa. Filed Mar. 22, 1921.

KEYSTONE

Particular description of goods.—Concrete-Mixers, or Concrete-Mixing Machines, or Concrete-Mixing Apparatus.
Claims use since Jan. 1, 1919.

Ser. No. 145,176. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) JOSEPH B. TUOR, St. Paul, Minn. Filed Mar. 24, 1921.

VINTO

Particular description of goods.—Malt Syrup Used as a Beverage Containing Less Than One-half of One Per Cent. Alcohol.
Claims use since Jan. 20, 1920.

Ser. No. 145,231. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALENTIN RODRIGUEZ, New York, N. Y. Filed Mar. 25, 1921.

AAA

Particular description of goods.—Spanish Paprika.
Claims use since January, 1909.

Ser. No. 145,232. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALENTIN RODRIGUEZ, New York, N. Y. Filed Mar. 25, 1921.

AAAA

Particular description of goods.—Spanish Paprika.
Claims use since January, 1909.

Ser. No. 145,233. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALENTIN RODRIGUEZ, New York, N. Y. Filed Mar. 25, 1921.

BBB

Particular description of goods.—Spanish Paprika.
Claims use since January, 1909.

Ser. No. 145,234. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALENTIN RODRIGUEZ, New York, N. Y. Filed Mar. 25, 1921.

FFF

Particular description of goods.—Spanish Paprika.
Claims use since January, 1909.

Ser. No. 145,235. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VALENTIN RODRIGUEZ, New York, N. Y. Filed Mar. 25, 1921.

RRR

Particular description of goods.—Spanish Paprika.
Claims use since January, 1909.

Ser. No. 145,253. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland. Filed Mar. 26, 1921.

BELLAFOLIN

Particular description of goods.—A Sedative for Relieving Spasms and Colic, &c.
Claims use since May 6, 1920.

Ser. No. 145,254. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland. Filed Mar. 26, 1921.

BELLAPUREN

Particular description of goods.—A Sedative for Relieving Spasms and Colic, &c.
Claims use since May 6, 1920.

Ser. No. 145,255. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHEMISCHE FABRIK VORMALS SANDOZ, Basel, Switzerland. Filed Mar. 26, 1921.

INTESTOPAN

Particular description of goods.—An Antispasmodic and Sedative Given for Intestinal Affection.
Claims use since May 6, 1920.

Ser. No. 145,317. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PHILIP CAREY MANUFACTURING COMPANY, Lockland, Ohio. Filed Mar. 28, 1921.

Carey

Particular description of goods.—Magnesia, Light Calcined Magnesia, Light Calcined Magnesia Powder, Carbonate of Magnesia, and Carbonate of Magnesia Powder.
Claims use since about August, 1920.

Ser. No. 145,346. (CLASS 37. PAPER AND STATIONERY.) THE "LITTLE MAJOR" APPLIANCES CO., New York, N. Y. Filed Mar. 28, 1921.

"LITTLE MAJOR"

Particular description of goods.—Label-Holders for Open-Backed Loose-Leaf Books or Binders, Known in the Trade as Labeling-Clips.
Claims use since May 1, 1920.

Ser. No. 145,355. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NOTASEMH HOSIERY COMPANY, Philadelphia, Pa. Filed Mar. 28, 1921.

BINKIE

Particular description of goods.—Dolls.
Claims use since on or about Mar. 22, 1921.

Ser. No. 145,475. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE QUEEN CITY BOTTLING COMPANY, Cincinnati, Ohio. Filed Mar. 30, 1921.



No claim being made to the word "Drink" apart from the mark shown on the drawing.

Particular description of goods.—A Maltless, Non-Alcoholic Beverage Sold as a Soft Drink.
Claims use since Feb. 23, 1921.

Ser. No. 145,484. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WEBER & LEFTON, INC., New York, N. Y. Filed Mar. 30, 1921.



No claim being made to the exclusive use of the words "Brand" or "New York" apart from the mark as shown on the drawing.

Particular description of goods.—Ribbon in the Piece.
Claims use since Apr. 19, 1920.

Ser. No. 145,547. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) E. W. BLISS COMPANY, Brooklyn, N. Y. Filed Apr. 1, 1921.

CONSOLIDATED

Particular description of goods.—Forming and Shaping Presses, Cutting-Presses, Trimming-Presses, Bending-

Presses, Drawing-Presses, Broaching-Presses, Forging-Presses, Swaging-Presses, Wiring-Presses, Dies for Use in Such Presses, Clutches, Slitters, for Cutting Sheet Material, and Can Machinery.
Claims use since 1902.

Ser. No. 145,656. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALEX SZABO, New York, N. Y. Filed Apr. 2, 1921.

SZABO'S
LINIMENT



The picture being a facsimile of applicant's portrait, and no claim being made to the word "Liniment."
Particular description of goods.—A Liniment for Rheumatism, Neuralgia, Sciatica, Headache, Stiff Neck, and Stiffness and Contraction of Muscles and Joints.
Claims use since October, 1920.

Ser. No. 145,657. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHERWOOD PETROLEUM CO., INC., Brooklyn, N. Y. Filed Apr. 2, 1921.

SHERPETCO

Particular description of goods.—Petrolatums, Mineral Jellies, and Mineral Oils for Medicinal and Pharmaceutical Uses.
Claims use since Mar. 1, 1920.

Ser. No. 145,687. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) PERCY ERNEST HURST, South Croydon, England. Filed Apr. 4, 1921.



Particular description of goods.—Card Game.
Claims use since Oct. 5, 1920.

Ser. No. 145,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THOS. A. BUXTON, Girard, Ga. Filed Apr. 6, 1921.

ASPIROLAX

Particular description of goods.—Tablets for Treatment of Headaches, Neuralgia, Colds, Rheumatism, Pains, Soreness, Constipation, and Influenza.
Claims use since Feb. 15, 1921.

Ser. No. 145,807. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCIS MARION WELCH, San Francisco, Calif. Filed Apr. 6, 1921.

WELCH'S
GOAT AND SHEEP GLAND
TABLETS

No claim being made to the words "Goat and Sheep Gland Tablets."
Particular description of goods.—A Tonic, Particularly a Nerve and Body Tonic in Tablet Form.
Claims use since Sept. 15, 1920.

Ser. No. 145,841. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, New York, N. Y. Filed Apr. 7, 1921.

ROYAL LUNCH

No claim is made to the word "Lunch" apart from the other features of the mark shown.
Particular description of goods.—Biscuit, Crackers, and Cake.
Claims use since July 8, 1902.

Ser. No. 145,844. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, New York, N. Y. Filed Apr. 7, 1921.

Saltina Biscuit

The drawing is lined to show the words "Saltina Biscuit" printed in yellow, with red and gold along the edges of the letters.
Particular description of goods.—Biscuit and Crackers.
Claims use since May 25, 1920.

Ser. No. 145,882. (CLASS 12. CONSTRUCTION MATERIALS.) CRUSH BRICK COMPANY, Sulphur Springs, Tex. Filed Apr. 8, 1921.

THERMO

Particular description of goods.—Fire-Brick, Hollow Building-Tile, Face-Brick and Fiber-Brick Tile.
Claims use since Jan. 1, 1921.

Ser. No. 145,958. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) THE MIDDLETOWN SILVER COMPANY, Middletown, Conn. Filed Apr. 9, 1921.

THE MIDDLETOWN SILVER CO. MIDDLETOWN CONN.

The exclusive right to the use of the words "Middletown Conn." except as they appear on the drawing is hereby disclaimed.
Particular description of goods.—Silver-Plated Hollow Ware and Silver-Plated Tableware.
Claims use since on or about Jan. 1, 1910.

Ser. No. 145,978. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) W. H. ROWLAND MANUFACTURING COMPANY, Hagerstown, Md. Filed Apr. 9, 1921.

THE KING

Particular description of goods.—Minnow-Nets.
Claims use since Sept. 1, 1904.

Ser. No. 145,999. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) DES MOINES TENT & AWNING COMPANY, Des Moines, Iowa. Filed Apr. 11, 1921.



Particular description of goods.—Tents and Tent-Sheds.
Claims use since 1919.

Ser. No. 146,035. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JESSE A. RINER, Akron, Ohio. Filed Apr. 11, 1921.

AKROTAN

FISH SKIN CURE

No claim being made to the words "Fish Skin Cure" apart from the trade-mark thus shown.
Particular description of goods.—Composition of Matter for the Use of Taxidermists—Namely, Tanning-Salts, Pastes, and Curing Salts and Solutions Made Therefrom.
Claims use since about Mar. 1, 1921.

Ser. No. 146,226. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) NOTASEME HOSIERY COMPANY, Philadelphia, Pa. Filed Apr. 15, 1921.

BINKIE
DOLL

No claim is made to the word "Doll" apart from the mark shown in the drawing.
Particular description of goods.—Dolls.
Claims use since on or about Apr. 8, 1921.

Ser. No. 146,258. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) IDEAL FIRE EXTINGUISHER CO., Providence, R. I. Filed Apr. 16, 1921.



Particular description of goods.—Hand Fire-Extinguishers.
Claims use since Apr. 10, 1921.

Ser. No. 146,295. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y. Filed Apr. 18, 1921.

30

Particular description of goods.—Pneumatic Tools—Namely, Riveting-Hammers.
Claims use since Feb. 16, 1921.

Ser. No. 146,406. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BRITT MANUFACTURING COMPANY, Jacksonville, Fla. Filed Apr. 20, 1921.

BRITT'S



EGYPTIAN

The portrait comprising a portion of the mark is that of Mr. W. L. Britt, a member of the above firm.
Particular description of goods.—A Tonic for Blood Dis-

orders, Kidney Diseases, Liver Complaint, Nervous Affections, Skin Diseases, La Grippe, Bad Colds, Rheumatism, and Catarrh.

Claims use since Nov. 27, 1920.

Ser. No. 146,449. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARIAN MOIR, Burlington, Iowa. Filed Apr. 20, 1921.

"ROSEMARY"

Particular description of goods.—Whist Score-Card.

Claims use since Apr. 1, 1921.

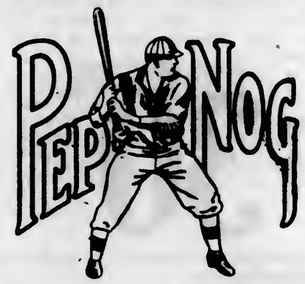
Ser. No. 146,496. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GEO. D. ROPER CORPORATION, Rockford, Ill. Filed Apr. 21, 1921.

Leader-Irahern

Particular description of goods.—Pumps, Comprising Farm, Rotary, Well, Lubricating, Pumps in General, and Parts Thereof.

Claims use since on or about May 1, 1919.

Ser. No. 146,500. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) BENJAMIN FRANKLIN RUTH, Reading, Pa. Filed Apr. 21, 1921.



Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks.

Claims use since Apr. 18, 1921.

Ser. No. 146,681. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HUDSON & COMPANY, New York, N. Y. Filed Apr. 23, 1921.



The lines on the drawing indicating color being for shading only, no claim being made to the exclusive use of the words "The Salve of Gold" apart from the mark shown on the drawing.

Particular description of goods.—An Ointment for External Use Indicated in the Treatment of Eczema, Ringworm, Rash, Boils, Insect-Bites, Poison-Ivy, and Similar Ailments.

Claims use since Nov. 1, 1913.

Ser. No. 146,653. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE PURITAN DRUG MFG. CO., Columbus, Ohio. Filed Apr. 23, 1921.

Aster

Particular description of goods.—A Wood-Polish for Furniture, Floors, or Painted Surfaces Generally.

Claims use since December, 1913.

Ser. No. 146,712. (CLASS 37. PAPER AND STATIONERY.) JORDAN MARSH COMPANY, Boston, Mass. Filed Apr. 25, 1921.

"Avona"

Particular description of goods.—Correspondence-Paper, Correspondence-Cards, and Envelops Therefor.

Claims use since Mar. 15, 1921.

Ser. No. 146,718. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) GEORGE U. LIPSMULCH, Chicago, Ill. Filed Apr. 25, 1921.

MOZZEL SHAM PAGNE

No claim being made to the word "Sham Pagne" apart from the mark shown.

Particular description of goods.—Non-Alcoholic Beverage Sold as Soft Drinks.

Claims use since Feb. 15, 1921.

Ser. No. 146,752. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio. Filed Apr. 26, 1921.

Euclid

Particular description of goods.—Cover-Papers and Textile Book-Papers.

Claims use since July, 1912.

Ser. No. 146,753. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio. Filed Apr. 26, 1921.

ARCTIC

Particular description of goods.—Enameled Cover-Papers and Enameled Book-Papers.

Claims use since April, 1910.

Ser. No. 146,754. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER COMPANY, Columbus, Ohio. Filed Apr. 26, 1921.

TUFLITE

Particular description of goods.—Kraft Wrapping-Papers.

Claims use since January, 1921.

Ser. No. 146,836. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) H. B. MALLINSON & CO., INC., New York, N. Y. Filed Apr. 27, 1921.

MIAMI

Particular description of goods.—Silk Piece Goods.

Claims use since September, 1920.

Ser. No. 146,920. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE LUSTRITE CORPORATION, Brooklyn, N. Y. Filed Apr. 28, 1921.

HAND VELVET

Particular description of goods.—Lubricant or Lotion for Rendering the Cuticle or Pellicle Soft and Pliable and for the Relief of Sun and Wind Burn, Chapped Hands, Chafing, and Cuticle and Pellicle Irritations and Inflammation.

Claims use since April, 1906.

Ser. No. 146,959. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EPPELSHEIMER & CO., New York, N. Y. Filed Apr. 29, 1921.



Particular description of goods.—Metal Molds.

Claims use since Jan. 10, 1921.

Ser. No. 146,960. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE ENGELBERG HULLER COMPANY, Syracuse, N. Y. Filed Apr. 29, 1921.

TIGER

Particular description of goods.—Attrition-Mills and Coffee-Shellers.

Claims use since Nov. 28, 1906.

Ser. No. 147,031. (CLASS 37. PAPER AND STATIONERY.) LETALOG MAILER CO., Chicago, Ill. Filed Apr. 30, 1921.

LETALOG

Particular description of goods.—Envelops and Mailing-Containers.

Claims use since Mar. 14, 1921.

Ser. No. 147,051. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SNYDER CHAFFEE COMPANY, Columbus, Ohio. Filed Apr. 30, 1921.

OHIO STADIUM

Particular description of goods.—Candy.

Claims use since October, 1920.

Ser. No. 147,098. (CLASS 18. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAM GUSTAV DONALD, Oakland, Calif. Filed May 2, 1921.

SANI DRAIN

Particular description of goods.—Sink-Flushers.

Claims use since Apr. 1, 1921.

Ser. No. 147,122. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PALMER CANDY CO., Sioux City, Iowa. Filed May 2, 1921.

Palmers

KENO

Particular description of goods.—Candy.

Claims use since Apr. 7, 1921.

Ser. No. 147,136. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed May 2, 1921.

ENAMELOID

Particular description of goods.—Paints, (Ready-Mixed and Paste,) Finishes, Enamels, Japans, Varnishes, Stains, and Fillers.

Claims use since June, 1903.

Ser. No. 147,155. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN D. COWARD, Boston, Mass. Filed May 3, 1921.

TRAF SIG

Particular description of goods.—Traffic-Signals for Motor-Vehicles.
Claims use since Jan. 1, 1921.

Ser. No. 147,160. (CLASS 28. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERT D. HUGHES, Lynchburg, Va. Filed May 3, 1921.

RED GIANT

Particular description of goods.—Automobile Rim-Tools, Tire-Pumps, and Gear-Pullers.
Claims use since Dec. 1, 1920.

Ser. No. 147,179. (CLASS 37. PAPER AND STATIONERY.) THE ALLING AND CORY COMPANY, Pittsburgh, Pa. Filed May 4, 1921.

ARENA

Particular description of goods—Printing and Writing Bond-Paper.
Claims use since July 1, 1904.

Ser. No. 147,181. (CLASS 37. PAPER AND STATIONERY.) THE ALLING AND CORY COMPANY, Pittsburgh, Pa. Filed May 4, 1921.

TRIUMPH

Particular description of goods.—Printing and Writing Bond-Paper.
Claims use since July 1, 1903.

Ser. No. 147,196. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HANSON MANUFACTURING CO., Detroit, Mich. Filed May 4, 1921.



Comprising a portrait of a member of the firm—to wit, John Hanson.
Particular description of goods.—A Medical Preparation for Asthma, Coughs, and Colds.
Claims use since Jan. 1, 1921.

Ser. No. 147,197. (CLASS 33. GLASSWARE.) HOLOPHANE GLASS CO. INC., New York, N. Y. Filed May 4, 1921.

Filterlite

Particular description of goods.—Glass Globes and Reflectors for Artificial Light.
Claims use since Apr. 15, 1921.

Ser. No. 147,198. (CLASS 33. GLASSWARE.) HOLOPHANE GLASS CO. INC., New York, N. Y. Filed May 4, 1921.

APOLLO

Particular description of goods.—Glass Globes and Reflectors for Artificial Light.
Claims use since Feb. 14, 1921.

Ser. No. 147,223. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WINCHOFT STOVE WORKS, Middletown, Pa. Filed May 4, 1921.

VICTORY

Particular description of goods.—Gas and Coal Stoves.
Claims use since Jan. 2, 1921.

Ser. No. 147,200. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. P. HITE COMPANY, INC., Roanoke, Va. Filed May 6, 1921.

HITE'S



PAIN REMEDY

The picture shown is that of Dr. S. P. Hite, who is now deceased. No claim is made herein for the exclusive use of the words "Pain Remedy" except in connection with the mark shown.
Particular description of goods.—A Remedy for Aching Limbs, Summer Complaint, Toothache, Cramps, Coughs, Colds, Sore Throat, Cuts, Bruises, Burns, and Sprains, on Man and Animal; Colic in People, Horses, and Cattle; Gapes and Threatened Cholera in Fowls.
Claims use since 1871.

Ser. No. 147,294. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) KANSAS CITY KOLA COMPANY, Kansas City, Mo. Filed May 6, 1921.

Kay-Kola HAS THE KICK

No claim being made to the word "Kola" nor to the phrase "Has the Kick."
Particular description of goods.—Non-Alcoholic, Non-Cereal Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since Dec. 1, 1920.

Ser. No. 147,330. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN CHICLE COMPANY, New York, N. Y. Filed May 7, 1921.



The applicant disclaims the exclusive right to the use of the word "Gum" apart from the mark as shown.
Particular description of goods.—Chewing-Gum.
Claims use since Jan. 1, 1891.

Ser. No. 147,365. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MORRELL & COMPANY, Ottumwa, Iowa. Filed May 7, 1921.



Particular description of goods.—Bacon.
Claims use since Oct. 12, 1910.

Ser. No. 147,367. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MORRELL & COMPANY, Ottumwa, Iowa. Filed May 7, 1921.



Particular description of goods.—Hams, Bacon, Picnic-Hams, Dried Beef, Luncheon-Meat, and Bacon Flitch.
Claims use since 1899.

Ser. No. 147,386. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) EVERETT D. WOLBERT, San Francisco, Calif. Filed May 7, 1921.

TRUSKO

Particular description of goods.—An Automobile-Crank-Case Support.
Claims use since Dec. 1, 1920.

Ser. No. 147,445. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MERCED GROWERS PACKING ASS'N, Merced, Calif. Filed May 9, 1921.

PRIDE OF MERCED

Particular description of goods.—Fresh Fruits and Vegetables.
Claims use since Mar. 1, 1921.

Ser. No. 147,469. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed May 9, 1921.

DECOTINT

Particular description of goods.—Cold-Water Paints.
Claims use since 1905.

Ser. No. 147,542. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GUY F. WOLFE, Frederick, Md. Filed May 10, 1921.

G. F. W.

Particular description of goods.—Carbon-Remover of a Chemical Nature.
Claims use since Mar. 26, 1921.

Ser. No. 147,549. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LYNN C. BEADLE, Detroit, Mich. Filed May 11, 1921.

NOJAK

Particular description of goods.—Combination Lifter and Stand for Vehicle-Wheels.
Claims use since Apr. 1, 1921.

Ser. No. 147,588. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MORRIS TWERSKY, Buffalo, N. Y. Filed May 11, 1921.

FITE-O-GON

Particular description of goods.—A Preventive for Venereal Diseases.
Claims use since Apr. 15, 1921.

Ser. No. 147,589. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ALFRED VESTER SONS, INC., Providence, R. I. Filed May 11, 1921.

1890

Particular description of goods.—Ornamental Electrical Fixture Parts of Stamped Brass and Copper.
Claims use since Sept. 1, 1920.

Ser. No. 147,656. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. BERRY CO., Buffalo, N. Y. Filed May 13, 1921.

PEN-E-ADAY

Particular description of goods.—A Tonic for the Bowels.
Claims use since Mar. 1, 1921.

Ser. No. 147,669. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN BREATHER KHAN, Homestead, Pa. Filed May 13, 1921.

MECCINE

Particular description of goods.—A Medicine for the Treatment of Diseases of the Blood, Nerves, Kidneys, Stomach Trouble, La Grippe, Constipation, &c., and for a Hair-Cream.
Claims use since April, 1921.

Ser. No. 147,671. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LINCOLN CHEMICAL COMPANY, Minneapolis, Minn. Filed May 13, 1921.

SPIKANBRITE

Particular description of goods.—Cleaning and Polishing Liquids for Varnished or Enameled Surfaces.
Claims use since Oct. 15, 1920.

Ser. No. 147,676. (CLASS 37. PAPER AND STATIONERY.) BERNARD A. NIENHAUSER, St. Paul, Minn. Filed May 13, 1921.

RAPINWAX

Particular description of goods.—Wrapping-Paper.
Claims use since Oct. 20, 1911.

Ser. No. 147,695. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANK J. VOLKMAR, St. Louis, Mo. Filed May 13, 1921.

F.J.V
MARO

Particular description of goods.—A Preparation for Use in the Treatment of Rheumatism, Gout, Lumbago.
Claims use since Jan. 1, 1921.

Ser. No. 147,712. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SARA V. DE FOREEST, New York, N. Y. Filed May 14, 1921.

DE-BAR

Particular description of goods.—Varnishes—Namely, Bronzing Liquid, Asphaltum Varnish, and Japan Driers.
Claims use since Feb. 2, 1914.

Ser. No. 147,732. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE OWL DRUG COMPANY, San Francisco, Calif. Filed May 14, 1921.

RUB-COHOL

Particular description of goods.—Medicated or Denatured Alcohol for External Application to the Skin and for Antiseptic Purposes.
Claims use since Mar. 26, 1921.

Ser. No. 147,734. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM M. PUGH, Baltimore, Md. Filed May 14, 1921.



Particular description of goods.—Gasolene-Improver.
Claims use since Apr. 28, 1921.

Ser. No. 147,740. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE F. SMITH, Woodsboro, Md. Filed May 14, 1921.

ROSE BUD

Particular description of goods.—Dental Cream.
Claims use since about May 1, 1921.

Ser. No. 147,778. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GERMICIDE COMPANY, Denver, Colo. Filed May 16, 1921.

GERM-A-TONE

Particular description of goods.—A Medicine for Cows.
Claims use since about Mar. 7, 1921.

Ser. No. 147,804. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W-K-M CO., Donalsonville, Ga. Filed May 16, 1921.

W-K-M CO.

Particular description of goods.—Pile Remedy.
Claims use since October, 1920.

Ser. No. 147,828. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KINGS SPECIALTY CO., Fort Wayne, Ind. Filed May 17, 1921.



Particular description of goods.—A Preparation Consisting of a Liquid and Powder Used in Sterilizing Infected Dentine.
Claims use since March, 1920.

Ser. No. 147,829. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GOTTLIEB L. E. KLINGBEIL, Omaha, Nebr. Filed May 17, 1921.



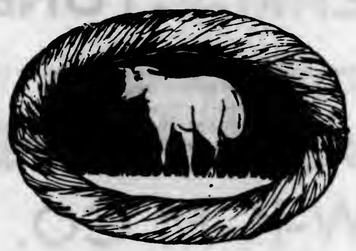
Particular description of goods.—Child's Educational and Amusement Appliance Consisting of a Selecting and Discharging Mechanism for Letter-Blocks, with Which Letter-Block Words are Constructed.
Claims use since about Mar. 1, 1921.

Ser. No. 147,855. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CHARLES A. WALTER, Alma, Ill. Filed May 17, 1921.

EGYPTS. WONDER.

Particular description of goods.—A Liquid Preparation for Removing Old Varnish, Wax, Dirt, Grease, &c.
Claims use since Jan. 5, 1921.

Ser. No. 147,946. (CLASS 43. THREAD AND YARN.) SMOLIN-HARTMAN & CO., New York, N. Y. Filed May 19, 1921.



The applicant disclaims the representation of the goods apart from the mark shown on the drawing.
Particular description of goods.—Yarns.
Claims use since Mar. 1, 1921.

Ser. No. 147,967. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM H. LUDEN, Reading, Pa. Filed May 20, 1921.

LUDEN'S

Particular description of goods.—Menthol Cough-Drops.
Claims use since 1905.

Ser. No. 147,983. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. PRUNIER & CIE., Paris, France. Filed May 20, 1921.

DIOSÉINE

Particular description of goods.—A Medicine in Tablet Form Used as a Tonic and to Regulate the Circulation of the Blood.
Claims use since Mar. 25, 1920.

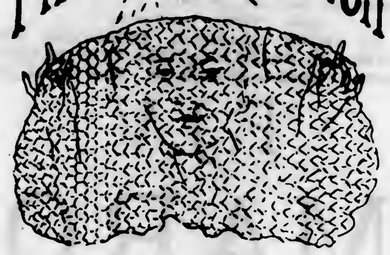
Ser. No. 147,994. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. ROCHA BROS., Washington, D. C. Filed May 20, 1921.

KING ALFONSO

Particular description of goods.—Olive-Oil.
Claims use since July 1, 1920.

Ser. No. 148,021. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE EDW. MALLEY CO., New Haven, Conn. Filed May 21, 1921.

The FLATTERER Veil



No claim is made to the use of the word "Veil" or the representation of the same apart from the mark shown by the drawing.
Particular description of goods.—Veiling by the Piece.
Claims use since May 11, 1921.

Ser. No. 148,052. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) GEO. BAKER & SONS, Brockton, Mass. Filed May 23, 1921.

PIONEER

Particular description of goods.—Clenching-Nails.
Claims use since Apr. 16, 1921.

Ser. No. 148,079. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) KINGSBURY CORPORATION, Chicago, Ill. Filed May 23, 1921.

COATRITE

Particular description of goods—Corrosion, acid, and Gas Proof Paint for Smoke Stacks, Water-Tanks, Pipes, and the Like.
Claims use since Jan. 1, 1921.

Ser. No. 148,087. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) RAINBOW LAWN SPRINKLER COMPANY, Jacksonville, Fla. Filed May 23, 1921.

RAINBOW

Particular description of goods.—Lawn-Sprinklers.
Claims use since April, 1919.

Ser. No. 148,097. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE TRINIDAD BEAN AND ELEVATOR COMPANY, Trinidad, Colo. Filed May 23, 1921.

TRIAD T BEANS

Applicant disclaims any right to the exclusive use of the word "Beans" apart from the mark shown in the drawing.
Particular description of goods.—Dried Beans of All Kinds.
Claims use since January, 1920.

Ser. No. 148,157. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MORRELL & COMPANY, Ottumwa, Iowa. Filed May 24, 1921.

Morrells Pride



The picture being fanciful.
Particular description of goods.—Tongues, Lard Oil, Sausages, Souse, Luncheon-Meat, Devilled Meat, Vegetable Soup, Brains, Feet, Hearts, Tenderloins, Hocks, and Sweetbreads.
Claims use since Mar. 7, 1921.

Ser. No. 148,233. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) J. S. MUNDY HOISTING ENGINE CO., Newark, N. J. Filed May 25, 1921. Under ten-year proviso.

MUNDY

Particular description of goods.—Contractors' Steam and Gasolene Hoists; Dredging, Mining, Logging and Steering Engines; Dock and Cargo Winches, Windlasses, and Capstans; Pile-Drivers, Derricks, and Cableways.
Claims use since 1869.

Ser. No. 148,249. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SINCLAIR TOUSEY, New York, N. Y. Filed May 25, 1921.

S. Tousey

Constitutes the facsimile of the signature of Dr. S. Tousey.
Particular description of goods.—Golf-Clubs.
Claims use since May 5, 1921.

Ser. No. 148,253. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WINCHESTER REPEATING ARMS CO., New Haven, Conn. Filed May 25, 1921.

WINCHESTER

Under section 9 of the act of March 19, 1920.
Particular description of goods.—Ice-Skates and Roller-Skates.
Claims use since May 15, 1920.

Ser. No. 148,263. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EGAN AND HAUSMAN COMPANY, INC., Brooklyn, N. Y. Filed May 26, 1921.

SURFASEAL

Particular description of goods.—Varnishes.
Claims use since Apr. 15, 1921.

Ser. No. 148,361. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed May 28, 1921.

GLÜCKSBLATT

Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since May 16, 1921.

Ser. No. 148,362. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed May 28, 1921.

KORNBLUME

Particular description of goods.—Unsweetened Evaporated Milk.
Claims use since Apr. 29, 1921.

Ser. No. 148,367. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CURTIS A. BAKER, Prescott, Wis. Filed May 28, 1921.

B BHR R

Particular description of goods.—A Preparation for Treatment of Heaves.
Claims use since May 21, 1921.

Ser. No. 148,373. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & SANBORN, Boston, Mass. Filed May 28, 1921. Under ten-year proviso.

BONITA

Particular description of goods.—Tea and Coffee.
Claims use since Feb. 2, 1894.

Ser. No. 148,451. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARSHALL-WELLS COMPANY, Duluth, Minn. Filed May 31, 1921.



Particular description of goods.—Fishing-Lines of Silk, Cotton; or Compositions Thereof, Fishing-Rods, and Fishing-Rod Reels.
Claims use since Aug. 1, 1920.

Ser. No. 148,495. (CLASS 12. CONSTRUCTION MATERIALS.) AUGUST KUHNLA, INC., Brooklyn, N. Y. Filed June 1, 1921.

KUPLE

Particular description of goods.—Skylights.
Claims use since May 20, 1920.

Ser. No. 148,542. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LIBERTY PAINT CO. INC., New York, N. Y. Filed June 2, 1921.

LINOL

Consisting of the word "Linol."
Particular description of goods.—Putty.
Claims use since Apr. 5, 1921.

Ser. No. 148,552. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ISAAC D. RICHHEIMER, New York, N. Y. Filed June 2, 1921.

KUP

Particular description of goods.—Coffee.
Claims use since Apr. 1, 1920.

Ser. No. 148,618. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) PATTERSON LOCK NUT MFG. CO., Chicago, Ill. Filed June 3, 1921.

ALLIGATOR

Particular description of goods.—Lock-Nuts.
Claims use since Nov. 19, 1919.

Ser. No. 148,629. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRI-STATE MILK PRODUCTS CO., Galena, Ill. Filed June 3, 1921.

ACE

Particular description of goods.—Evaporated Milk.
Claims use since May 15, 1920.

Ser. No. 148,648. (CLASS 12. CONSTRUCTION MATERIALS.) CORRUGATED BAR COMPANY, INC., Buffalo, N. Y. Filed June 4, 1921.

CORR

Particular description of goods.—Metal Rods, Bars, Stirrups, Hoops, Spirals, Frames, and Meshwork for Reinforcing Concrete.
Claims use since Oct. 28, 1911.

Ser. No. 148,654. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOHN HALL, Springfield, Ill. Filed June 4, 1921.

WELLHALL

Particular description of goods.—Mineral Waters.
Claims use since 1913.

Ser. No. 148,676. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SAMSTAG & HILDER BROS., INC., New York, N. Y. Filed June 4, 1921.

DEFIES THE WIND

Particular description of goods.—Hair-Nets.
Claims use since Dec. 30, 1920.

Ser. No. 148,786. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. ARON & COMPANY, INC., New York, N. Y. Filed June 7, 1921.

J.A.&Co.
BOURBONA

Particular description of goods.—Coffee.
Claims use since Dec. 29, 1920.

Ser. No. 148,854. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE ROTH COAL COMPANY, INC., New York, N. Y. Filed June 8, 1921.

BINGE

No claim is made to the representation of the goods appearing in the drawing apart from the mark as shown.
Particular description of goods.—Coal.
Claims use since January, 1921.

Ser. No. 148,911. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y., and Cumberland, Md. Filed June 10, 1921.

AMCELLA

Particular description of goods.—Knitted and Woven Cloths and Fabrics in the Piece Made of Silk and Artificial Silk, and for Knitted and Woven Cloths and Fabrics in the Piece Made of a Combination of Real or Artificial Silk with Each other or with other Substances.
Claims use since June 3, 1921.

Ser. No. 148,979. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DU BOIS RUBBER & TUBE COMPANY, Chattanooga, Tenn. Filed June 11, 1921.

RED GIANT

Particular description of goods.—Rubber Tires and Tubes.
Claims use since February, 1920.

Ser. No. 148,980. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) DU BOIS RUBBER & TUBE CO., Chattanooga, Tenn. Filed June 11, 1921.

LOOKOUT

Particular description of goods.—Rubber Tires and Tubes.
Claims use since February, 1920.

Ser. No. 149,026. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PHOENIX PAINT & VARNISH COMPANY, Philadelphia, Pa. Filed June 11, 1921.



Particular description of goods.—Ready-Mixed Paints.
Claims use since Apr. 12, 1921.

Ser. No. 149,162. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WISCONSIN COMPOUNDING COMPANY, Milwaukee, Wis. Filed June 14, 1921.



Particular description of goods.—Furniture and Automobile Polish.
Claims use since Apr. 1, 1921.

Ser. No. 149,207. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed June 15, 1921.

Western

Particular description of goods.—Targets and Traps.
Claims use since about July 1, 1910.

Ser. No. 149,208. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) WESTERN CARTRIDGE COMPANY, East Alton and Springfield, Ill. Filed June 15, 1921.

WHITE FLYER

Particular description of goods.—Targets and Traps.
Claims use since about Nov. 1, 1897.

Ser. No. 149,410. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MCDOUGALL-BUTLER CO., INC., Buffalo, N. Y. Filed June 20, 1921.

CABOLITE

Particular description of goods.—Varnish.
Claims use since about 1905.

Ser. No. 149,411. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MCDOUGALL-BUTLER CO., INC., Buffalo, N. Y. Filed June 20, 1921.

UTILIVAR

Particular description of goods.—Varnish.
Claims use since August, 1920.

Ser. No. 149,955. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EMPIRE NOTION CO., New York, N. Y. Filed July 2, 1921.

HAIRPINET

Consisting of the word "Hairpinet."
Particular description of goods.—Hair-Nets.
Claims use since June 4, 1921.

Ser. No. 149,984. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed July 2, 1921.

HANDIOIL

Particular description of goods.—A Polishing-Oil for Painted and Varnished Surfaces.
Claims use since February, 1920.

Ser. No. 150,063. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES A. DOYLE, New York, N. Y. Filed July 6, 1921.

DONEMAR

Particular description of goods.—Woolen Goods in the Piece.
Claims use since Nov. 1, 1920.

Ser. No. 150,176. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BERKELEY COMPANY, Providence, R. I. Filed July 9, 1921. Under ten-year proviso.

ENGLISH CAMBRIC

Particular description of goods.—Cambrics in the Piece.
Claims use since on or before Jan. 1, 1891.

Ser. No. 150,297. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES F. WHITE & CO. INC., New York, N. Y. Filed July 12, 1921.

MIDDY LIN

Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 1, 1921.

Ser. No. 150,298. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES F. WHITE & CO. INC., New York, N. Y. Filed July 12, 1921.

LASSIE LIN

Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 1, 1921.

Ser. No. 150,299. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JAMES F. WHITE & CO. INC., New York, N. Y. Filed July 12, 1921.

BUDDY LIN

Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 1, 1921.

Ser. No. 150,315. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HINCK & MULLER, New York, N. Y. Filed July 13, 1921.

INECITA

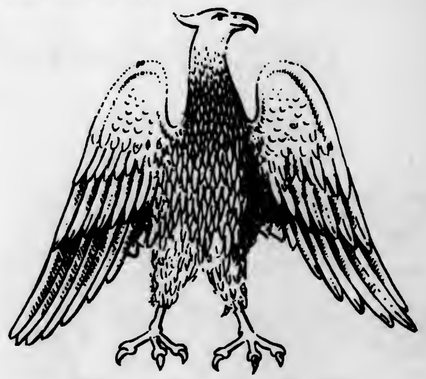
Particular description of goods.—Cotton Piece Goods.
Claims use since about January, 1919.

Ser. No. 150,380. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) UNIVERSAL LAMP CO., Chicago, Ill. Filed July 14, 1921.

ARROW

Particular description of goods.—Acetylene-Lamps.
Claims use since June 20, 1921.

Ser. No. 150,388. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, Jersey City, N. J. Filed July 15, 1921.



Particular description of goods.—Spool-Cotton, Sewing-Cotton, Thread, and Cotton Yarn.
Claims use since 1863.

Ser. No. 150,394. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, Jersey City, N. J. Filed July 15, 1921.

SANSILK

Particular description of goods.—Spool-Cotton, Sewing-Cotton, Thread, and Cotton Yarn.
Claims use since first part of October, 1897.

Ser. No. 150,434. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) STEWART R. BROWNE MFG. CO., INC., New York, N. Y. Filed July 16, 1921.

Lubest

Consists of the word "Lubest" arranged as shown in the accompanying drawing.
Particular description of goods.—Braided Asbestos Lubricated Yarn Packing.
Claims use since Apr. 23, 1919.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

AUGUST 30, 1921.

146,060. AN ANESTHETIC FOR USE IN DENTISTRY. ALBERT M. ABRAMS, Boise, Idaho.
Filed December 21, 1920. Serial No. 141,843. PUBLISHED MAY 17, 1921.

146,061. VEHICLES—NAMELY, AUTOMOBILE CAMP-CARS AND TRAILERS. GEORGE CARL ADAMS, Garden City and Farmingdale, N. Y.
Filed November 20, 1920. Serial No. 140,869. PUBLISHED FEBRUARY 22, 1921.

146,062. CERTAIN NAMED SOLUTIONS. ALCOHOL PRODUCTS COMPANY, Newark, N. J.
Filed August 27, 1919. Serial No. 122,082. PUBLISHED DECEMBER 9, 1919.

146,063. SILK PIECE GOODS. B. ALTMAN & Co., New York, N. Y.
Filed March 10, 1921. Serial No. 144,556. PUBLISHED MAY 17, 1921.

146,064. SUGAR FOR USE AS A FOOD. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y.
Filed February 24, 1921. Serial No. 143,975. PUBLISHED MAY 10, 1921.

146,065. A PREPARATION FOR THE TREATMENT OF LUMBAGO AND RHEUMATISM. STEPHANIA ARIO, Brooklyn, N. Y.
Filed December 17, 1920. Serial No. 141,204. PUBLISHED MAY 17, 1921.

146,066. TABLE-SALT. BATES & ABBOTT, Boston, Mass.
Filed December 13, 1920. Serial No. 140,985. PUBLISHED MAY 17, 1921.

146,067. COTTON, DRILLS, TWILLS IN THE PIECE. FRED S. BENNETT, INC., New York, N. Y.
Filed January 14, 1921. Serial No. 142,245. PUBLISHED MAY 17, 1921.

146,068. CERTAIN NAMED TOYS. BOB-BETTY BELONGINGS, Carlsbad, Calif.
Filed January 31, 1921. Serial No. 142,956. PUBLISHED MAY 10, 1921.

146,069. CERTAIN NAMED CHEMICAL, MINERAL, AND VEGETABLE SUBSTANCES. THE CALCO CHEMICAL COMPANY, Boundbrook, N. J.
Filed December 26, 1919. Serial No. 126,453. PUBLISHED APRIL 12, 1921.

146,070. ANTITOXIN FOR WHITE CORPUSCLES OF THE BLOOD. T. B. CHEMICAL COMPANY, Newark, N. J.
Filed December 4, 1920. Serial No. 140,620. PUBLISHED MAY 10, 1921.

146,071. SULFUR-TERPENE COMPOUNDS AND SOLUTIONS. CLAPP PRODUCTS COMPANY, Boston, Mass.
Filed December 1, 1920. Serial No. 140,488. PUBLISHED MAY 10, 1921.

146,072. MINERAL FLUXES. THE CLEVELAND FLUX COMPANY, Cleveland, Ohio.
Filed November 20, 1920. Serial No. 139,879. PUBLISHED MAY 17, 1921.

146,073. SELF-RISING PANCAKE-FLOUR. COGER, TUCKER & CHENEY, INC., Corning, N. Y.
Filed December 11, 1920. Serial No. 140,916. PUBLISHED MAY 10, 1921.

146,074. ASSORTED HARD CANDIES, ASSORTED CREAM CANDIES, CHOCOLATES, AND CANDY-BAR GOODS. COOK-WELKER-HIRE CO., Fort Wayne, Ind.
Filed February 18, 1921. Serial No. 143,746. PUBLISHED MAY 10, 1921.

146,075. CHICKEN FEED, DAIRY FEED, LAYING-MASH, GROWING-MASH, HORSE FEED, AND HOG FEED. W. M. COBBY FLOUR & GRAIN CO., Birmingham, Ala.
Filed November 19, 1920. Serial No. 139,847. PUBLISHED MAY 17, 1921.

146,076. RIBBONS AND SILKS, SATINS, AND MIXTURES IN THE PIECE. JOHNSON COWDIN & CO., INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,500. PUBLISHED MAY 10, 1921.

146,077. RIBBONS AND SILKS, SATINS, AND MIXTURES IN THE PIECE. JOHNSON COWDIN & CO., INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,501. PUBLISHED MAY 10, 1921.

146,078. RIBBONS AND SILKS, SATINS, AND MIXTURES IN THE PIECE. JOHNSON COWDIN & CO., INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,499. PUBLISHED MAY 10, 1921.

146,079. MEDICINAL PREPARATION FOR THE TREATMENT FOR GENERAL AND CHRONIC CONSTIPATION. THE DELSON CHEMICAL CO., INC., Brooklyn, N. Y.
Filed November 4, 1920. Serial No. 139,151. PUBLISHED MAY 17, 1921.

146,080. PHARMACEUTICAL PREPARATIONS FOR TREATMENT OF THROAT, LUNG, AND INTESTINAL DISEASES. THE DELSON CHEMICAL CO., INC., Brooklyn, N. Y.
Filed November 4, 1920. Serial No. 139,152. PUBLISHED MAY 17, 1921.

146,081. JERSEY-CLOTH IN THE PIECE. MEYER DORFMAN, New York, N. Y.
Filed January 20, 1921. Serial No. 142,475. PUBLISHED MAY 17, 1921.

146,082. DRY PULVERULENT MIXTURES CONTAINING OILS OR FATS, TO BE EMPLOYED AS A SHORTENING AGENT IN COOKING. DRY OIL PRODUCTS, LTD., London, England, and New York and Trout Creek, N. Y.
Filed October 27, 1920. Serial No. 138,850. PUBLISHED MAY 10, 1921.

146,083. WOOLEN AND WOOLEN AND SILK PIECE GOODS. JOSEPH ECKSTEIN, INC., New York, N. Y.
Filed January 11, 1921. Serial No. 142,060. PUBLISHED MAY 17, 1921.

146,084. LIQUID ANT-EXTERMINATORS. JAMES H. EDELEN, Oakland, Calif.
Filed October 19, 1920. Serial No. 138,479. PUBLISHED MAY 10, 1921.

146,085. MANUFACTURED BLANKETS OF ALL COTTON, COTTON AND WOOL, AND ALL WOOL. EDSON MOORE & COMPANY, Detroit, Mich.
Filed December 23, 1919. Serial No. 126,354. PUBLISHED SEPTEMBER 7, 1920.

146,086. HAIR-TONIC. JAMES G. EMERSON, Erie, Pa.
Filed January 15, 1920. Serial No. 127,171. PUBLISHED MAY 3, 1921.

146,087. A MEDICINAL YEAST. ENTERPRISE DRY YEAST CORPORATION, New York, N. Y.
Filed November 17, 1920. Serial No. 139,789. PUBLISHED MARCH 22, 1921.

146,088. HAIR-GROWER. MOSELLA FILE, Winston-Salem, N. C.
Filed December 4, 1920. Serial No. 140,587. PUBLISHED MAY 10, 1921.

146,089. COTTON AND COTTON AND SILK MIXTURE PIECE GOODS. N. FLUEGELMAN & CO. INC., New York, N. Y.
Filed March 5, 1921. Serial No. 144,317. PUBLISHED MAY 17, 1921.

146,090. LIQUID FACE-POWDER. ESTELLE B. FINLAYSON, Ossining, N. Y.
Filed December 3, 1920. Serial No. 140,560. PUBLISHED MAY 10, 1921.

146,091. INSECTICIDES. LOUIS H. FONTAINE, Worcester, Mass.
Filed January 29, 1921. Serial No. 142,929. PUBLISHED APRIL 26, 1921.

146,092. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed February 26, 1921. Serial No. 144,076. PUBLISHED MAY 17, 1921.

146,093. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed February 26, 1921. Serial No. 144,077. PUBLISHED MAY 17, 1921.

146,094. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed February 26, 1921. Serial No. 144,078. PUBLISHED MAY 17, 1921.

146,095. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 11, 1921. Serial No. 144,613. PUBLISHED MAY 17, 1921.

146,096. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 11, 1921. Serial No. 144,614. PUBLISHED MAY 10, 1921.

146,097. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 11, 1921. Serial No. 144,616. PUBLISHED MAY 10, 1921.

146,098. FACIAL MASKS OR PACKS. AGNES M. FRANCO, Philadelphia, Pa.
Filed December 16, 1920. Serial No. 141,165. PUBLISHED MAY 17, 1921.

146,099. STICK-CANDY. GARRISON-COOK CANDY CO., Macon, Ga.
Filed October 17, 1919. Serial No. 123,890. PUBLISHED APRIL 5, 1921.

146,100. CERTAIN NAMED FOODS AND INGREDIENTS OF FOODS. GLOBE GRAIN & MILLING CO., Los Angeles, Calif.
Filed December 7, 1920. Serial No. 140,719. PUBLISHED MAY 10, 1921.

146,101. STOCK AND POULTRY FOOD. GOODENUF MILLING & FEED CO., Minneapolis, Minn.
Filed January 12, 1921. Serial No. 142,141. PUBLISHED MAY 10, 1921.

146,102. A CONCENTRATED, MALTLESS SYRUP, SOLD FOR SOFT DRINK PURPOSES. CARMAN J. GRIFFIN, St. Louis, Mo.
Filed May 14, 1919. Serial No. 118,469. PUBLISHED AUGUST 26, 1919.

146,103. APPLE-BUTTER. HIGHLAND APPLE COMPANY, Underwood, Wash.
Filed February 26, 1921. Serial No. 144,086. PUBLISHED MAY 10, 1921.

146,104. PERFUMES, TOILET WATERS, TOILET CREAMS, TISSUE-TONICS, FACE-POWDERS, TALCUM POWDERS, AND SHAMPOOS. HEINRICH CHEMICAL COMPANY, Minneapolis, Minn.
Filed November 22, 1920. Serial No. 139,969. PUBLISHED MAY 17, 1921.

146,105. FRUIT JAMS, JELLIES, AND PRESERVES, DRIED BANANAS AND BANANA-FLOUR, CANNED PINEAPPLES, AND CANNED FRUITS AND VEGETABLES. HAWAIIAN FRUIT PRODUCTS COMPANY, LIMITED, Honolulu, Hawaii.
Filed November 23, 1920. Serial No. 140,038. PUBLISHED MAY 10, 1921.

146,106. A LINIMENT USED IN THE TREATMENT OF BURNS, SPRAINS, SORES, HEADACHE, AND TOOTHACHE. JAMES KING HUSTON, McKinney, Ky.
Filed December 18, 1920. Serial No. 141,267. PUBLISHED MAY 17, 1921.

146,107. LINIMENT. NOAH HODGE, Los Angeles, Calif.
Filed June 25, 1919. Serial No. 119,948. PUBLISHED APRIL 13, 1920.

146,108. A SALVE FOR PILES. HERBOLINE COMPANY, Los Angeles, Calif.
Filed December 20, 1920. Serial No. 141,307. PUBLISHED MAY 17, 1921.

146,109. WOOLEN, COTTON, AND LINEN FABRICS IN THE PIECE AND COMBINATIONS THEREOF. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed January 28, 1921. Serial No. 142,885. PUBLISHED MAY 17, 1921.

146,110. WORSTED AND WOOLEN TEXTILE FABRICS IN THE PIECE. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed February 15, 1921. Serial No. 143,596. PUBLISHED MAY 17, 1921.

146,111. A MEDICINAL PREPARATION TAKEN AS A TONIC FOR BUILDING UP THE HUMAN SYSTEM. JOSEPH P. KAYATTA, Providence, R. I.
Filed December 4, 1920. Serial No. 140,600. PUBLISHED MAY 10, 1921.

146,112. CERTAIN NAMED TOILET PREPARATIONS AND THE LIKE. A. E. KIESLING, Houston, Tex.
Filed June 12, 1919. Serial No. 119,521. PUBLISHED JUNE 8, 1920.

146,113. PILE REMEDY. JOHN FRANCIS LOGAN, San Francisco, Calif.
Filed November 29, 1920. Serial No. 140,391. PUBLISHED MAY 10, 1921.

146,114. HAIR-POMADE AND TREATING-OIL. LUCIAN'S, Paducah, Ky.
Filed November 22, 1920. Serial No. 139,985. PUBLISHED MAY 17, 1921.

146,115. SILK PIECE GOODS. H. R. MALLINSON & CO. INC., New York, N. Y.
Filed March 9, 1921. Serial No. 144,536. PUBLISHED MAY 17, 1921.

146,116. A PREPARATION OF CHLOROPHYL IN TABLET FORM. MERCK & CO., New York, N. Y.
Filed December 3, 1920. Serial No. 140,571. PUBLISHED MAY 10, 1921.

146,117. FACE-CREAM, FACE-POWDER, TALCUM POWDER, LIQUID BLOOM, TOOTH-PASTE, SHAMPOO, ROUGE, HAIR-DRESSING, AND DEPILATORY. THE MARIET COMPANY, Chicago, Ill.
Filed January 24, 1921. Serial No. 142,713. PUBLISHED APRIL 19, 1921.

146,118. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed November 18, 1920. Serial No. 139,808. PUBLISHED MAY 17, 1921.

146,119. COMPOUNDS FOR USE IN THE VULCANIZATION OF RUBBER. MICHIGAN CHEMICAL COMPANY, Essexville, Mich.
Filed December 13, 1920. Serial No. 141,006. PUBLISHED MAY 17, 1921.

146,120. BAKERS' PRODUCTS—VIZ., BREAD. EUGENE B. NICOLAIT, Brooklyn, N. Y.
Filed October 15, 1920. Serial No. 138,332. PUBLISHED MAY 10, 1921.

146,121. DYES. NORTH AMERICAN DYE CORPORATION, Mount Vernon, N. Y.
Filed November 8, 1920. Serial No. 139,365. PUBLISHED MAY 10, 1921.

146,122. CANDY. NEW ENGLAND CONFECTIONERY COMPANY, Boston, Mass.
Filed February 21, 1921. Serial No. 143,887. PUBLISHED MAY 10, 1921.

146,123. BINDERS FOR LOOSE SHEETS OF PAPER AND THE LIKE. PARAGON BINDER CORPORATION, New York, N. Y., and Newark, N. J.
Filed May 3, 1917. Serial No. 103,510. PUBLISHED SEPTEMBER 7, 1920.

146,124. A LINIMENT FOR THE TREATMENT OF RHEUMATISM. GEO. PECA, Chicago, Ill.
Filed December 20, 1920. Serial No. 141,326. PUBLISHED MAY 17, 1921.

146,125. SELF-RISING WHEAT-FLOUR. THE PORTLAND FLOURING MILLS CO., Portland, Oreg.
Filed December 24, 1920. Serial No. 141,503. PUBLISHED MAY 10, 1921.

146,126. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed January 22, 1921. Serial No. 142,664. PUBLISHED MAY 17, 1921.

146,127. COTTON PIECE GOODS. PACIFIC MILLS, Lawrence and Boston, Mass.
Filed January 22, 1921. Serial No. 142,660. PUBLISHED MAY 17, 1921.

146,128. PERFUMES, TOILET WATERS, SACHET, AND SACHET-POWDERS. PARFUMERIE HOUBIGANT, Paris, France, assignors to Houbigant, Inc., New York, N. Y., a Corporation of New York.
Filed November 12, 1920. Serial No. 139,572. PUBLISHED MAY 10, 1921.

146,129. TOILET PREPARATIONS—VIZ., FACE-POWDER. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,134. PUBLISHED MAY 10, 1921.

146,130. TOILET PREPARATIONS—VIZ., FACE-POWDER. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,141. PUBLISHED MAY 10, 1921.

146,131. TOILET PREPARATIONS—VIZ., FACE-POWDER. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,135. PUBLISHED MAY 10, 1921.

146,132. TOILET PREPARATIONS—VIZ., FACE-POWDER. PARFUMERIE LOURNAY, INC., New York, N. Y.
Filed November 24, 1920. Serial No. 140,142. PUBLISHED MAY 10, 1921.

146,133. VINEGAR, SAUER-KRAUT, PICKLES, FRUIT BUTTERS, JAMS, JELLIES, FRUIT PRESERVES. PEERLESS FOOD MANUFACTURING CO., Pittsburgh, Pa.
Filed November 6, 1920. Serial No. 139,302. PUBLISHED MAY 10, 1921.

146,134. A DIGESTIVE MEDICINE. NICHOLAS EIFFENBEIN, New York, N. Y.
Filed December 18, 1920. Serial No. 141,277. PUBLISHED MAY 17, 1921.

146,135. CATHARTICS AND PURGATIVES. HAARS & BOWMAN, Philadelphia, Pa.
Filed December 20, 1920. Serial No. 141,329. PUBLISHED MAY 17, 1921.

146,136. PHONOGRAPHS, GRAPHOPHONES, AND TALKING-MACHINES. ROOT & COMPANY, Chicago, Ill.
Filed May 17, 1919. Serial No. 118,611. PUBLISHED AUGUST 10, 1920.

146,137. HAIR-REMOVER AND FACE-CLEANSER. ROSA SCHOENHOLZ, San Francisco, Calif.
Filed December 20, 1920. Serial No. 141,331. PUBLISHED MAY 17, 1921.

146,138. A PARTLY-PREPARED RICE IN PACKAGE FORM. Mrs. CHARLES SAINT, Kaplan, La.
Filed February 16, 1921. Serial No. 143,668. PUBLISHED MAY 10, 1921.

146,139. PILE FABRICS IN THE PIECE. THE SALT'S TEXTILE MANUFACTURING COMPANY, Bridgeport, Conn., and New York, N. Y.
Filed February 25, 1921. Serial No. 144,051. PUBLISHED MAY 17, 1921.

146,140. FACE-POWDERS, ROUGES, EYEBROW-PENCILS, COMPACTS, LIP-SALVE, LIP-ROUGE, AND NAIL-POLISH. JULIUS SCHMID, INCORPORATED, New York, N. Y.
Filed March 22, 1917. Serial No. 102,359. PUBLISHED JUNE 8, 1920.

146,141. A SALVE PREPARED FOR BLOOD-POISON AND SKIN DISEASES. JOHN SHTERK, Eveleth, Minn.
Filed December 4, 1920. Serial No. 140,612. PUBLISHED MAY 10, 1921.

146,142. WHEAT-FLOUR. THE SOUTHWESTERN MILLING COMPANY, INC., New York, N. Y.
Filed December 23, 1920. Serial No. 141,470. PUBLISHED MAY 10, 1921.

146,143. CANDY. SPOEHR'S, Chicago, Ill.
Filed January 11, 1921. Serial No. 142,111. PUBLISHED MAY 10, 1921.

146,144. CERTAIN NAMED MEDICINES. FREDERICK STEARNS & CO., Detroit, Mich.
Filed November 29, 1920. Serial No. 140,377. PUBLISHED MAY 10, 1921.

146,145. PERFUMES, TOILET WATERS, AND FACE-POWDERS. FREDERICK STEARNS & CO., Detroit, Mich.
Filed November 29, 1920. Serial No. 140,378. PUBLISHED MAY 10, 1921.

146,146. SILKS IN THE PIECE. STEHLI SILKS CORPORATION, New York, N. Y.
Filed March 8, 1921. Serial No. 144,477. PUBLISHED MAY 17, 1921.

146,147. SELF-VULCANIZING TIRE-PATCHES. JOHN M. STUCKER, Rosedale, Kans.
Filed March 1, 1919. Serial No. 116,241. PUBLISHED MARCH 23, 1920.

146,148. A DYE FOR CHANGING THE COLOR OF LEATHER TO A DEEP BLACK. THE TINCTORIAL COMPANY, Denver, Colo.
Filed November 6, 1920. Serial No. 139,329. PUBLISHED MAY 10, 1921.

146,149. MEDICINAL PREPARATION FOR THE TREATMENT OF THE HAIR AND SCALP. ANTHONY J. TRASSO, New York, N. Y.
Filed November 13, 1920. Serial No. 139,639. PUBLISHED MAY 10, 1921.

146,150. DOLLS. TREGO DOLL MFG. CO., INC., New York, N. Y.
Filed November 1, 1919. Serial No. 124,452. PUBLISHED MARCH 2, 1920.

146,151. A TONIC COMPOUND FOR TREATING INDIGESTION, DYSPEPSIA, CONSTIPATION, TORPID LIVER, NERVOUSNESS, AND GENERAL DEBILITY. UNITED MEDICO-CHEMI HOSPITAL, INC., Richmond, Va.
Filed December 14, 1920. Serial No. 141,086. PUBLISHED MAY 17, 1921.

146,152. FURNITURE AND AUTOMOBILE POLISH. THE U. S. MOP COMPANY, Toledo, Ohio.
Filed January 22, 1921. Serial No. 142,677. PUBLISHED MAY 10, 1921.

146,153. NATURAL OIL OF FLOWERS, LEAVES, ROOTS, STEMS, AND GUMS USED FOR SCENTING PURPOSES. UNGERER & COMPANY, INC., New York, N. Y.
Filed November 18, 1920. Serial No. 139,822. PUBLISHED MAY 17, 1921.

TRADE-MARK REGISTRATIONS RENEWED.

17,487. HYDRAULIC CEMENT. KEYSTONE CEMENT COMPANY, (now by change of name The Atlas Portland Cement Co.,) New York, N. Y.
Registered February 4, 1890. Renewed February 4, 1920.

18,867. CORN-SALVE AND COUGH-SYRUP. KOHLER MANUFACTURING COMPANY, Baltimore, Md.; Kohler Manufacturing Company, a Corporation of Delaware, assignee.
Registered January 20, 1891. Renewed January 20, 1921.

18,919. TOYS KNOWN AS TALKING-BOARDS. KENNARD NOVELTY CO., Baltimore, Md.; William Fuld, assignee.
Registered February 3, 1891. Renewed February 3, 1921.

18,942. CARAMELS AND CANDIES. LANCASTER CARAMEL CO., Lancaster, Pa.; American Caramel Company, assignee.
Registered February 3, 1891. Renewed February 3, 1921.

19,180. COMBS. FELIX ARMAND MAUREY-DESCHAMPS, Paris, France; Robert Maurey, successor.
Registered March 17, 1891. Renewed March 17, 1921.

19,393. WHEAT-FLOUR. WILLIAM E. WOODYEAR, Baltimore, Md.; Holt & Company, assignee.
Registered April 21, 1891. Renewed April 21, 1921.

19,407. BRISTLES USED IN MAKING BRUSHES. FELIX ARMAND MAUREY-DESCHAMPS, Paris, France; Robert Maurey, successor.
Registered April 28, 1891. Renewed April 28, 1921.

19,643. COTTON AND WOOLEN FABRICS. CHINA AND JAPAN TRADING CO. LIMITED, (now by change of name China, Japan & South America Trading Company, Limited,) New York, N. Y.
Registered June 2, 1891. Renewed June 2, 1921.

19,704. BRUSHES AND COMBS. FELIX ARMAND MAUREY-DESCHAMPS, Paris, France; Robert Maurey, successor.
Registered June 16, 1891. Renewed June 16, 1921.

19,839. CERTAIN NAMED REMEDIES. A. LEONHARDT & Co., Muehlheim-on-the-Main, Germany; The Chemical Foundation, Inc., a Corporation of Delaware, assignee.
Registered July 7, 1891. Renewed July 7, 1921.

19,840. REMEDIES FOR INSOMNIA. A. LEONHARDT & Co., Muehlheim-on-the-Main, Germany; The Chemical Foundation, Inc., a Corporation of Delaware, assignee.
Registered July 7, 1891. Renewed July 7, 1921.

19,855. AMMONIA DERIVATIVES. CHEMISCHE FABRIK AUF ACTIEN, (VORMALS E. SCHERING,) Berlin, Germany; The Chemical Foundation, Inc., a Corporation of Delaware, assignee.
Registered July 7, 1891. Renewed July 7, 1921.

19,856. GLYCOCOLL. CHEMISCHE FABRIK AUF ACTIEN, (VORMALS E. SCHERING,) Berlin, Germany; The Chemical Foundation, Inc., a Corporation of Delaware, assignee.
Registered July 7, 1891. Renewed July 7, 1921.

19,979. REMEDIES FOR DISEASES OF THE STOMACH AND BOWELS, INCLUDING TEETHING TROUBLES. WILLIAM WOODWARD, Nottingham, England; W. Woodward (1920) Limited, assignee.
Registered August 4, 1891. Renewed August 4, 1921.

20,028. TIMOTHY-SEED. THE ALBERT DICKINSON COMPANY, Chicago, Ill.
Registered August 18, 1891. Renewed August 18, 1921.

20,029. TIMOTHY-SEED. THE ALBERT DICKINSON COMPANY, Chicago, Ill.
Registered August 18, 1891. Renewed August 18, 1921.

20,030. TIMOTHY-SEED. THE ALBERT DICKINSON COMPANY, Chicago, Ill.
Registered August 18, 1891. Renewed August 18, 1921.

20,049. CROCHET-COTTON. CLARK THREAD COMPANY, Newark, N. J.
Registered August 18, 1891. Renewed August 18, 1921.

20,050. CROCHET-COTTON. CLARK THREAD COMPANY, Newark, N. J.
Registered August 18, 1891. Renewed August 18, 1921.

20,051. DARNING-COTTON. CLARK THREAD COMPANY, Newark, N. J.
Registered August 18, 1891. Renewed August 18, 1921.

20,052. DARNING-COTTON. CLARK THREAD COMPANY, Newark, N. J.
Registered August 18, 1891. Renewed August 18, 1921.

20,053. SPOOL-COTTON. CLARK THREAD COMPANY, Newark, N. J.
Registered August 18, 1891. Renewed August 18, 1921.

20,054. CROCHET-COTTON. CLARK THREAD COMPANY, Newark, N. J.
Registered August 18, 1891. Renewed August 18, 1921.

20,055. DARNING-COTTON. CLARK THREAD COMPANY, Newark, N. J.
Registered August 18, 1891. Renewed August 18, 1921.

20,086. TOOTH-BRUSHES. FLORENCE MANUFACTURING COMPANY, Florence, Mass.; New York, N. Y., and Chicago, Ill.
Registered August 25, 1891. Renewed August 25, 1921.

20,193. AN ANTISEPTIC AND DETERGENT COMPOUND. REED & CARNRICK, New York, N. Y.
Registered October 6, 1891. Renewed October 6, 1921.

20,194. A REMEDY FOR RHEUMATISM AND GOUTY DIATHESIS. REED & CARNRICK, New York, N. Y.
Registered October 6, 1891. Renewed October 6, 1921.

20,253. METALLIC SCREWS, BOLTS, NAILS, NUTS, WASHERS, RIVETS, AND KINDRED ARTICLES. THE AMERICAN SCREW COMPANY, Providence, R. I.
Registered October 27, 1891. Renewed October 27, 1921.

20,259. WRITING-PAPER. WHITING PAPER COMPANY, Holyoke, Mass.
Registered October 27, 1891. Renewed October 27, 1921.

20,260. WRITING-PAPER. WHITING PAPER COMPANY, Holyoke, Mass.
Registered October 27, 1891. Renewed October 27, 1921.

20,383. PILLS. CARTER MEDICINE COMPANY, New York, N. Y.
Registered November 17, 1891. Renewed November 17, 1921.

20,516. WRITING-PAPER. WHITING PAPER COMPANY, Holyoke, Mass.
Registered December 29, 1891. Renewed December 29, 1921.

20,592. SHELLED RICE POPCORN. THE ALBERT DICKINSON COMPANY, Chicago, Ill.
Registered January 12, 1892. Renewed January 12, 1922.

20,664. A REMEDY FOR HEART DISEASE, RHEUMATISM, AND KINDRED AILMENTS. CLARA GARDNER, Vincennes, Ind.
Registered February 2, 1892. Renewed February 2, 1922.

LABELS

REGISTERED AUGUST 30, 1921.

23,252.—*Title:* "ALLEN TIRE CASE." (For Cases for Automobile-Tires.) THE ALLEN AUTO SPECIALTY CO., New York, N. Y. Filed May 11, 1921.

23,253.—*Title:* "ALLEN TIRE CASE." (For Cases for Automobile-Tires.) THE ALLEN AUTO SPECIALTY CO., New York, N. Y. Filed May 11, 1921.

23,254.—*Title:* "ALLEN TIRE CASE." (For Cases for Automobile-Tires.) THE ALLEN AUTO SPECIALTY CO., New York, N. Y. Filed May 11, 1921.

23,255.—*Title:* "ALLEN TIRE CASE." (For Cases for Automobile-Tires.) THE ALLEN AUTO SPECIALTY CO., New York, N. Y. Filed May 11, 1921.

23,256.—*Title:* "MARSHMALLOW CREAM CORN." (For Confectionery-Containers.) FRED W. AMEND CO., Chicago, Ill. Filed June 6, 1921.

23,257.—*Title:* "SCREEN WIRE CLOTH." (For Screen Wire-Cloth.) AMERICAN WIRE FABRICS COMPANY, Chicago, Ill. Filed June 20, 1921.

23,258.—*Title:* "AMERICAN BRAND." (For Screen Wire-Cloth.) AMERICAN WIRE FABRICS COMPANY, Chicago, Ill. Filed June 20, 1921.

23,259.—*Title:* "BUSCHTEE." (For Carbonated Tea Beverage.) ANHEUSER-BUSCH, INCORPORATED, St. Louis, Mo. Filed June 20, 1921.

23,260.—*Title:* "KAFFO." (For Carbonated Coffee Beverage.) ANHEUSER-BUSCH, INCORPORATED, St. Louis, Mo. Filed June 20, 1921.

23,261.—*Title:* "VIOLETTE PETALES." (For Talcum Powder.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,262.—*Title:* "DEPILATORY." (For Preparation for Removing Hair.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,263.—*Title:* "SCALPINOL." (For Hair Tonic and Invigorant.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,264.—*Title:* "WRINKLE ERADICATOR." (For Preparation for Removing Wrinkles from the Skin.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,265.—*Title:* "RED ROSE." (For Talcum Powder.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,266.—*Title:* "PURE BLAND SOAP." (For Toilet Soap.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,267.—*Title:* "HAND LOTION." (For Lotion for Hands.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,268.—*Title:* "OLD ENGLISH LAVENDER SHAMPOO." (For Preparation for Cleaning the Hair.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,269.—*Title:* "SKIN AND TISSUE BUILDER." (For Preparation for the Skin and Tissues and Massage-Cream.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,270.—*Title:* "SKIN WHITENER." (For a Preparation for Whitening the Skin.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,271.—*Title:* "DEODORIZER." (For a Preparation for Destroying Odor of Perspiration.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,272.—*Title:* "TRU-LAX." (For Boxes Containing True Chocolate Laxatives.) ALEX BLACKSTONE, Newark, N. J. Filed May 19, 1921.

23,273.—*Title:* "BOHANNAN." (For Locks.) WILSON BOHANNAN, INC., Brooklyn, N. Y. Filed June 21, 1921.

23,274.—*Title:* "BRACH'S FRUITS AND NUTS IN CREAM CHOCOLATE COVERED." (For Candy.) E. J. BRACH & SONS, Chicago, Ill. Filed March 21, 1921.

23,275.—*Title:* "BRACH'S CHOCOLATES SIX FAVORITE SELECTIONS." (For Candy.) E. J. BRACH & SONS, Chicago, Ill. Filed March 21, 1921.

23,276.—*Title:* "BRILLIANT HARD MIXTURE." (For Candy.) E. J. BRACH & SONS, Chicago, Ill. Filed March 31, 1921.

23,277.—*Title:* "NEO-BALSAM COMPOUND." (For Packages Containing Filling Material for Filling the Root-Canals of Teeth.) ARTHUR A. BROWN, St. Louis, Mo. Filed April 11, 1921.

23,278.—*Title:* "MAXWELL HOUSE, GOOD TO THE LAST DROP." (For Coffee.) CHEEK-NEAL COFFEE COMPANY, Nashville, Tenn. Filed February 18, 1921.

23,279.—*Title:* "CLEANALL." (For Cleaning Compounds.) (CLEANALL CHEMICAL COMPANY, Chicago, Ill. Filed February 12, 1921.

23,280.—*Title:* KINA-TONE." (For Bottles Containing Kina-Tone.) W. D. DEL-WIT, Oakwood Heights, N. Y. Filed January 31, 1921.

23,281.—*Title:* "HURTS ONLY DIRT." (For Cleaning and Scouring Compound for Household Use and for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, &c. FITZPATRICK BROS., Chicago, Ill. Filed June 2, 1921.

23,282.—*Title:* "THE GAYNOR LIGHT CONTROL." (For Electric-Light-Control Switches.) THE GAYNOR MANUFACTURING COMPANY, Bridgeport, Conn. Filed June 10, 1921.

23,283.—*Title:* "GLEMBY HAIR NET." (For Hair-Nets.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed June 11, 1921.

23,284.—*Title:* "SAMSONET, THE STRENGTH IS IN THE HAIR." (For Hair-Nets.) S. GLEMBY'S SONS CO. INC., New York, N. Y. Filed June 11, 1921.

23,285.—*Title:* "LOVELEE HAIR NET." (For Hair-Nets.) S. GLEMBY, INC., New York, N. Y. Filed June 11, 1921.

23,286.—*Title:* "LORRAINE HAIR NET." (For Hair-Nets.) S. GLEMBY, INC., New York, N. Y. Filed June 11, 1921.

23,287.—*Title:* "REGINA HAIR NET." (For Hair-Nets.) S. GLEMBY, INC., New York, N. Y. Filed June 11, 1921.

23,288.—*Title:* "JEAN THE SUPERIOR HAIR NET." (For Hair-Nets.) S. GLEMBY, INC., New York, N. Y. Filed June 11, 1921.

23,289.—*Title:* "ZANZIBARINE." (For Preparation for Coloring Ham and Sausage Strings.) B. HELLER CO., Chicago, Ill. Filed February 21, 1921.

23,290.—*Title:* "BAKERS' FRIEND." (For Containers Holding Bakers' Friend, a Flavoring Compound.) B. HELLER & CO., Chicago, Ill. Filed February 21, 1921.

23,291.—*Title:* "LEMON-ZEST." (For Containers Holding Lemon-Zest, a Lemon Flavoring Compound.) B. HELLER & CO., Chicago, Ill. Filed March 24, 1921.

23,292.—*Title:* "AUTO GLO." (For Containers Holding Auto Glo, a Polish for Automobile-Bodies and All Highly-Finished Surfaces.) B. HELLER & Co., Chicago, Ill. Filed March 24, 1921.

23,293.—*Title:* "HELLER'S VAN-BOQUET." (For Containers Holding Heller's Van-Boquet, a Flavoring Preparation for Ice-Cream, Confectionery, Candy, and Pastry.) B. HELLER & Co., Chicago, Ill. Filed March 28, 1921.

23,294.—*Title:* "$1 000.00 GUARANTEED BED-BUG KILLER." (For Insecticide for Destroying Bedbugs.) B. HELLER & Co., Chicago, Ill. Filed November 18, 1920.

23,295.—*Title:* "THE PALACE CIGAR." (For Cigars.) HENRY HERMAN, Mitchell, S. D. Filed June 6, 1921.

23,296.—*Title:* "CRANE." (For Overalls.) CHARLES E. HYMSON, Louisville, Ky. Filed June 6, 1921.

23,297.—*Title:* "KANTO." (For Packages Containing a Remedy for Leucorrhea.) THE KANTO COMPANY, Canton, Ohio. Filed May 6, 1919.

23,298.—*Title:* "KIRKMAN'S FLOATING SOAP." (For [illegible] for a Floating Soap for Toilet and Bath.) [illegible] & Son, Brooklyn, N. Y. Filed June 13, [illegible]

[illegible] BROWN JUG." (For Syrup for [illegible] LOUIS KLEIN, St. Louis, [illegible]

[illegible] CLOTH." (For [illegible], Providence, R. I. [illegible]

[illegible]." (For [illegible], R. I. [illegible]

[illegible] JUCEFUL ORANGE." [illegible] CONSOLIDATED FRUIT [illegible] April 11, 1921.

[illegible]." (For Ac- [illegible] Sta- [illegible] 1921.

[illegible] Ac- [illegible] Sta- [illegible]

23,301.—[illegible] Containing [illegible] Chocolates, [illegible] BOX COMPANY, [illegible] 1921.

23,306.—*Title:* "GREYBOLON." [illegible] Hand-Rolled Bitter Sweets.) [illegible] COMPANY, Milwaukee, Wis. Filed [illegible]

23,309.—*Title:* "ROSALIE." (For Boxes [illegible] Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed May 21, 1921.

23,310.—*Title:* "GORDON'S CHOCOLATES." (For Boxes Containing Chocolate Candy.) MILWAUKEE PAPER BOX COMPANY, Milwaukee, Wis. Filed May 26, 1921.

23,311.—*Title:* "EVEREADY FORD LIGHTING BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed April 28, 1921.

23,312.—*Title:* "EVEREADY FORD IGNITION BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed April 28, 1921.

23,313.—*Title:* "EVEREADY GAS ENGINE BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, New York, N. Y. Filed April 28, 1921.

23,314.—*Title:* "EVEREADY PORTABLE LIGHTING BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed April 28, 1921.

23,315.—*Title:* "EVEREADY TRACTOR BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed April 28, 1921.

23,316.—*Title:* "EVEREADY LIGHTING AND IGNITION BATTERY." (For Electric Batteries.) NATIONAL CARBON COMPANY, INC., New York, N. Y. Filed April 28, 1921.

23,317.—*Title:* "GRAHAM BREAD." (For Bread.) NEWARK PARAFFINE & PARCHMENT PAPER CO., Newark, N. J.; Columbus, Ohio, and New York, N. Y. Filed June 11, 1921.

23,318.—*Title:* "STERLING DAIRY FEED." (For Bags of Dairy Feed.) NORTHRUP, KING & CO., Minneapolis, Minn. Filed April 25, 1921.

23,319.—*Title:* "STERLING SCRATCH FEED." (For Bags of Poultry Feed.) NORTHRUP, KING & CO., Minneapolis, Minn. Filed April 25, 1921.

23,320.—*Title:* "STERLING EGG MASH." (For Bags of Poultry Feed.) NORTHRUP, KING & CO., Minneapolis, Minn. Filed April 25, 1921.

23,321.—*Title:* "ROSY DEP-URANTS." (For Containers for a Cathartic Drug Preparation in Tablet Form.) PHOENIX DRUG CO., Cincinnati, Ohio. Filed June 14, 1921.

23,322.—*Title:* "PORTO RICO JUCEFUL GRAPEFRUIT." (For Grapefruit.) PORTO RICO CONSOLIDATED FRUIT COMPANY, Buffalo, N. Y. Filed April 11, 1921.

[illegible] *Title:* "PORTO RICO JUCEFUL PINEAPPLE." [illegible] PORTO RICO CONSOLIDATED FRUIT [illegible] N. Y. Filed April 11, 1921.

[illegible] JUCEFUL ORANGE." [illegible] CONSOLIDATED FRUIT [illegible] April 11, 1921.

[illegible]." (For Ac- [illegible] Sta- [illegible] 1921.

[illegible] Ac- [illegible] Sta- [illegible]

23,331.—[illegible] ANNA L. [illegible] 1921.

23,333.—*Title:* "[illegible] THE WESTERN SHEET [illegible] January 18, 1921.

23,334.—*Title:* "WINE-OLA." [illegible] erages.) THE WINE-OLA CO., [illegible] June 20, 1921.

PRINTS

REGISTERED AUGUST 30, 1921.

5,713.—*Title:* "THE FACTORIES BEHIND THE SHADE." (For Advertising Purposes for Window-Shades.) THE COLUMBIA MILLS INC., New York, N. Y. Filed April 2, 1921.

5,714.—*Title:* "EVERY DROP AWAKENS FLAVOR HEINZ VINEGARS." (For Advertising Purposes for Heinz Vinegars.) H. J. HEINZ CO., Pittsburgh, Pa. Filed June 3, 1921.

5,715.—*Title:* "IT'S HOYT'S, YOU'LL LIKE IT." (For Candy—Namely, Selected Sweets.) HOWARD H. HOYT CANDY CO., Chicago, Ill. Filed February 25, 1921.

5,716.—*Title:* "ASSORTMENT SHOE LACES." (For Advertising Purposes for Shoe-Laces.) WILLIAM HARRY JOSLIN, Providence, R. I. Filed March 4, 1920.

5,717.—*Title:* "DRESSMAKERS SNAP FASTENERS." (For Advertising Purposes for Snap-Fasteners.) MADGE MEASLER, Providence, R. I. Filed May 7, 1921.

5,718.—*Title:* "RED SEAL HAIR NETS ARE GOOD." (For Advertising Hair-Nets.) MORRIS, MANN & REILLY, Chicago, Ill. Filed May 23, 1921.

5,719.—*Title:* "SO SMOOTH SO SNUG." (For Advertising Purposes for Hosiery.) NOTASEME HOSIERY COMPANY, Philadelphia, Pa. Filed April 30, 1921.

5,720.—*Title:* "COMPLEXIONS—NIGHT AND NOON." (For Advertising Purposes for Palmolive Soap.) THE PALMOLIVE COMPANY, Milwaukee, Wis. Filed May 5, 1921.

5,721.—*Title:* "THE DOCTOR IN CANDY FORM." (For Advertising Purposes for Mint Laxatives.) PARTOLA MFG. CO., New York, N. Y. Filed April 2, 1921.

5,722.—*Title:* "AS DELICIOUS AS BONBONS." (For Advertising Purposes for Mint Laxatives.) PARTOLA MFG. CO., New York, N. Y. Filed April 4, 1921.

5,723.—*Title:* "POST TOASTIES." (For Advertising Purposes for Cereal Foods—Corn Flakes.) POSTUM CEREAL CO. INC., Battle Creek, Mich. Filed February 16, 1921.

5,724.—*Title:* "RUBBERSET PAINT BRUSHES THEY LEAVE NO BRISTLES ON THE JOB." (For Advertising Purposes for Paintbrushes.) RUBBER & CELLULOID PRODUCTS COMPANY, Newark, N. J. Filed August 30, 1921.

5,725.—*Title:* "UNITED FUEL & SUPPLY CO. BUILDING SUPPLIES." (For Advertising Purposes for Building Supplies.) UNITED FUEL & SUPPLY COMPANY, Detroit, Mich. Filed August 30, 1921.

5,726.—*Title* "HOW SHALL I CUT THAT KEYWAY?" (For Advertising Purposes for Keyway Sets and Machines for Use in Connections with Same.) THE VELCO MANUFACTURING COMPANY, INC., Greenfield, Mass. Filed June 7, 1921.

5,727.—*Title:* "VICKS VAPORUB OVER 17 MILLION JARS USED YEARLY." (For Advertising Purposes for Salve.) THE VICK CHEMICAL CO., Greensboro, N. C. Filed April 2, 1921.

5,728.—*Title:* "FOR DEEP CHEST COLDS USE VICKS VAPORUB IT PENETRATES AND VAPORIZES." (For Advertising Purposes for Salve.) THE VICK CHEMICAL CO., Greensboro, N. C. Filed April 2, 1921.

5,729.—*Title:* "FOR KIDDIES COLD TROUBLES VICKS VAPORUB YOU JUST RUB IT ON." (For Advertising Purposes for Salve.) THE VICK CHEMICAL CO., Greensboro, N. C. Filed April 8, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

SMITH-KLINE & FRENCH CO. *v.* AMERICAN DRUGGISTS SYNDICATE.

Decided April 27, 1921.

[278 Fed. Rep., 84.]

1. TRADE-MARKS AND TRADE-NAMES—RED BAND WITH INITIAL HELD NOT INFRINGED BY RED PARALLELOGRAM WITH DIFFERENT INITIALS.

Plaintiff's trade-mark for aspirin, which, as registered, consisted of a red band around the box, on which band plaintiff's initials were printed, the representation of the box being expressly disclaimed as part of the trade-mark, is not infringed by defendant's trade-mark for aspirin, which consisted of a red parallelogram on which the name of the drug was printed and above the center of which was a red half-circle containing defendant's initials.

2. SAME—COLOR OF PAPER ALONE CANNOT BE CLAIMED AS TRADE-MARK.

One cannot have a trade-mark monopoly in the color of paper alone.

3. SAME—UNFAIR COMPETITION HELD NOT SHOWN BY USE OF SOMEWHAT SIMILAR PACKAGE.

That, while plaintiff was using a flat paper box on which its red band trade-mark was placed, defendant adopted as a container for the same drug a green enameled tin box on which its red parallelogram trade-mark was placed does not show unfair competition by defendant after plaintiff had begun to use a container similar to defendant's, though there was evidence that on occasions when red band aspirin, by which name plaintiff's product had been known, was asked for, defendant's product was sold.

APPEAL from the District Court of the United States for the Eastern District of New York.

Suit by the Smith-Kline & French Company against the American Druggists Syndicate for infringement of a registered trade-mark and for unfair competition. Decree for plaintiff, and defendant appeals. Reversed.

Messrs. Hauff & Warland (*Mr. John C. Tomlinson* and *Mr. William E. Warland* of counsel) for appellant.

Mr. Julian S. Wooster (*Mr. Frank B. Fox*, *Mr. Henry N. Paul, Jr.*, and *Mr. Joseph C. Fraley* of counsel) for the appellee.

Before WARD, HOUGH, and MANTON, circuit judges.

MANTON, *Cir. J.*:

On the 19th of December, 1918, the appellee filed in the Patent Office of the United States, an application for a registered trade-mark for aspirin tablets, and on September 23, 1919, a certificate of registration, No. 126,617, was granted. The mark adopted and used was a red-colored band with initials. The representation of the box formed no part of the mark. In the affidavit, the trade-mark is said to have been used continuously since March 1, 1917. The trade-mark is applied and affixed to the packages containing the goods by placing thereon a printed label, on which the mark is shown with the initials "S. K. & F." across the red band.

On October 24, 1916, the appellant obtained a certificate of registration, No. 113,541, of its trade-mark. It was registered in the same class as the appellee's. The mark consists of a label, a semicircle; there being printed on the label the letters "A. D. S." in white. The appellant and appellee are manufacturers of and dealers in drugs and pharmaceutical supplies. Among the variety of goods which each manufactures and sells are aspirin tablets. The claim of infringement and unfair competition arises from the use of the mark on the box or package which is used by the appellant in marketing its goods. The appellant adopted its label in 1907, and has continuously used it on many of its goods ever since. The body of the label so used was in white, or a color approaching white, with the name of the article printed in the same color upon a red background, consisting in some cases of a rectangle, and in some others of a red band or stripe, and over the center of this red block was a red semicircle, upon which was printed in the same colors as the lettering on the band, the letters "A. D. S." Such labels were used on a great variety of its products, and the sales between the year 1912 and the date of the trial of this action amounted to $4,300,000, or about 2,500,000 dozen packages.

On February 27, 1917, the Bayer patent on aspirin expired, and both the appellant and appellee entered the field in the manufacture and sale of aspirin tablets. The appellee marketed its aspirin tablets in a paper box with a solid red band around it. The record is clear that, when it did so, it knew of the extensive use of the label by the appellant. It was prior to January, 1919, when the appellant decided to put aspirin on the market in small retail tin containers. It then contracted for such tin packages with the Metal Package Corporation. The trade-mark of the appellant is substantially the same as

that which has been used by it on its labels for a long period prior. The box came on the market June 5, 1919. In either March or April, 1919, the appellee decided to use a package of similar size, duplicating what had previously been adopted by the appellant in marketing its aspirin. On July 16, 1919, after the appellant had obtained its tin boxes, the appellee placed an order with a can manufacturer adopting the appellee's tin box. It placed its trade-mark thereon and then commenced the sale of its aspirin in such packages. Its claim here is that the appellant has infringed its trade-mark and that, in selling aspirin tablets in such packages with the label or mark used by the appellant thereon, it is engaged in unfair competition, resulting in damages to the appellee.

(1) We think it was error to hold that the appellant has infringed appellee's trade-mark. The trade-mark granted shows a rectangular box with a band of about one-third the width of the box, with the initials "S. K. & F." running diagonally on the band. The statement in the Patent Office contains the following: "The representation of the box forms no part of the mark." All that the trade-mark shows is a red band with the appellee's initials on it. The form of the box having been disclaimed, there is nothing to show the size or shape of the band, and the appellee has made the initials on the band an essential and integral part of such band. It is stated that—

the description and drawing presented truly represents the trade-mark sought to be registered.

The appellant's red mark is different in sufficient identifying respects. It is a solid red stripe or parallelogram, instead of a band proper. It has above the center of the band constituting a part of it a red semicircle about one-third of the length of the red background, and of a height about equal to the width of the stripe. The initials "S. K. & F." are absent. The word "aspirin" appears, and, in the semicircle, the letters "A. D. S." In no sense can it be said that the appellant's mark has a "band." The stripe of the appellant's does not go to the edge of the box. The band of the appellee goes around and encircles the box. The registered trade-mark which the appellee possesses must be limited to the specific design shown. The mere color may be impressed in a particular design and constitute a valid trade-mark, such as a circle, square, triangle, cross, or star. (*Leschen Rope Co.* v. *Broderick & Bascom Rope Co.*, 201 U. S., 166; 26 Sup. Ct., 425; 50 L. Ed., 710.) But with a parallelogram and not a band used, and without the initials of the appellee, but with prominent use of the initials of the appellant in the semicircle constructed above the parallelogram of the appellant and attached thereto, such would not constitute a use of the appellee's trade-mark. (*Schlitz Brewing Co.* v. *Houston Ice Co.*, 250 U. S., 28; 39 Sup. Ct., 401; 63 L. Ed., 822.)

(2) In the Schlitz case the manufacturer of beer claimed the exclusive right to use brown bottles with brown labels. It was held there that the adoption by a competitor may contribute to a wrongful deception, if combined with an imitative inscription, but that, where the label was dissimilar to the plaintiff's in shape, script, meaning, and mode of attachment, it could not be said to add appreciably to the deception which might arise from the brown label or bottle.

But it is true that the unlawful imitation must be what achieves the deception, even though it could do so only on the special background lawfully used.

Using a green color in soap, or on a wrapper or box of soap cannot be enjoined. (*Omega Oil* v. *Weschler*, 35 Misc. Rep., 441; 71 N. Y. Supp., 983.) One cannot have a trade-mark monopoly in the color of paper alone. (*Lalance & Grosjean Mfg. Co.* v. *Nat. Enameling & Stamping Co.*, (C. C.,) 109 Fed., 317.) The appellee's aspirin has been called the "red band" aspirin. It therefore claims the exclusive right to use the package with the red band upon it and call it "red band" aspirin. But to use this name is merely descriptive of the appellee's mark, which the appellant does not infringe.

(3) Nor do we think that this record discloses a case of unfair competition. Prior to the adoption of a metal box, the appellee used a paper package. The paper box was thinner than the tin box. It was flat, with sharp square corners. The color was white, with a red band. The appellant had a greenish white enamel on its tin box. It had rounded corners and a convex cover, and the only point of resemblance is that on both boxes there was the red color of the label or mark. But when the appellee came into the market, and adopted the tin box, it did so after the appellant's adoption of such box. The appellee accepted the original design as selected by the appellant. It was a box of the same material, same size and shape, having the same general color scheme. The lettering was in many respects identical. The appellant placed its mark upon it, which consisted of a parallelogram and a semicircle at the top connected therewith, and its initials "A. D. S." on the semicircle. The appellee adhered to its initials placed across the red band. The appellant is enjoined from the use of the tin box. There could be no confusion between the packages by the ordinary observer. If there be an imitation or attempt to imitate, we think the appellee made the attempt. With full knowledge of the appellant's use of the red color and its label, the appellee adopted a red band as a trade-mark. It then, after the appellant had entered the field in using the tin box, chose a tin box resembling closely the shape and size of the appellant's, and placed its trade-mark thereon, and proceeded in competition in the sale of aspirin tablets.

We think by no possibility could the ordinary observer be confused between the appellee's and appellant's boxes and the marks placed thereon. Whatever confusion may have resulted was brought about by the appellee's imitation and selection of the type of tin box used by the appellant. There are three incidents which are called to our attention as evidence of confusion between the containers of the appellee and appellant. The first was a decoy order, giving appellant for "red band" aspirin, and which was filled by sending the appellant's product. The second was found on exhibition, a large box, on a druggist's counter, with three containers of appellant's aspirin and six containers of appellee's therein. The third is when purchases of aspirin were made at two retail drug stores by employees of the appellee who, when they purchased, merely asked for "red band" aspirin, and were given aspirin tablets of the appellant. The circumstances which led up to each of these instances, do not justify the claim of confusion. Mere similarity is not, as a matter of law, conclusive evidence of intention to deceive. Such intent must be inferred as a matter of fact from similarity. Form, color, and general appearance may be considered. The greater the number of points of similarity, the stronger is the inference of an intentional imitation with intent to deceive. But with the well-defined marks of each of the litigants upon the red stripe across the face of each mark we think it unlikely that the ordinary observer would be mistaken or that deception was likely. (*Coats* v. *Merrick Thread Co.*, 149 U. S., 562; 13 Sup. Ct., 966; 37 L. Ed., 847.)

The appellant in its answer filed a counterclaim and asked for affirmative injunctive relief. The reasons which we have assigned for denying relief to the appellee hold with equal force as against the claim of the appellant, and for the same reasons the appellant cannot succeed.

Decree reversed.

U. S. Circuit Court of Appeals—Second Circuit.

SUPERIOR SKYLIGHT CO., INC., *v.* AUGUST KUHNLA, INC., *et al.*

Decided May 13, 1921.

[273 Fed. Rep., 482.]

1. PATENTS—ELEMENT ADDED TO AVOID ANTICIPATION CANNOT BE DROPPED TO ESTABLISH INFRINGEMENT. When an applicant for a patent to cover a new combination is compelled, by rejection or submission, to narrow his claim by the introduction of a new element, he cannot, after issue of the patent, broaden his claim by dropping such element.
2. SAME—NO. 1,009,502, FOR SKYLIGHT, NOT INFRINGED. The Goldman patent, No. 1,009,502, for a skylight, having openings to open automatically in case of fire to allow the escape of smoke, *Held* not infringed.
3. SAME—EQUIVALENT PART MUST PERFORM THE SAME FUNCTION IN SUBSTANTIALLY THE SAME MANNER. Within the rule of equivalents, the thing thought to be the equivalent must be shown to perform the same function and in substantially the same manner as the thing of which it is alleged to be the equivalent.

APPEAL from the District Court of the United States for the Eastern District of New York.

Suit in equity by the Superior Skylight Company, Incorporated, against August Kuhnla, Incorporated, and others. Decree for defendants, and complainant appeals. Affirmed.

For opinion below, see 265, Fed. 282.

Messrs. Hauff & Warland, (*Mr. William E. Warland* of counsel) for appellant.

Mr. Richard B. Cavanagh (*Mr. J. Granville Meyers*, *Mr. R. B. Cavanagh*, and *Mr. James A. Koehl* of counsel) for appellees.

Before ROGERS, HOUGH, and MANTON, Circuit Judges.

MANTON, *Cir. J.*:

Letters Patent No. 1,009,502 were issued to Barney Goldman, the assignor of the appellant. The patent is for a skylight. It is intended primarily to be used on theaters and buildings where large audiences congregate. It is so designed as to operate automatically, thereby opening a number of apertures located in the frame of the skylight. In this way the smoke and flames are drawn to the skylight, avoiding the suffocation of the people gathered in the building. The skylight is usually built to comply with the laws of localities as to size.

Claims 1 and 2 of the patent sued on are as follows:

1. A skylight comprising a frame projecting from the roof of a building and having an opening with an inclined jamb, and provided with an offset at the top of the jamb, a cover pivoted to the lower part of the jamb, means connected to the cover for securing the cover on to the jamb, and means attached to the said connection, for automatically releasing the cover to swing downwardly to its open position.
2. A skylight comprising a frame projecting from the roof of a building and having an opening with an inclined jamb, and provided with an inclined offset at the top of the jamb, a cover pivoted to the lower part of the jamb, a flexible connection operatively secured to the cover for holding the cover on to the jamb, a fusible link attached to and situated between the end of the connection and the cover, for automatically releasing the cover to swing downwardly to its open position.

The frame of the skylight has a number of apertures, and to each lower portion of the opening is pivoted a cover, which is held closed by means of one or more wire ropes or chains connected to the upper portion of the cover, and the ropes may be operated from a position below the skylight. Each of these ropes has connected thereto a link of fusible metal. When closed, the cover is positioned at an inclined angle; the idea being that when any of the ropes or chains are released, or any of the fuses melt, the cover will, by gravity, fall to an open position.

The appellee the Freel Investing Company is the owner of the Strand Theater, at Fulton street and Rockwell place, Brooklyn, and it is upon this building that the skylight which the appellant claims infringes its patent was used. The appellee August Kuhnla, Incorporated, is the manufacturer of the skylight. The appellee Edward Keough is the manager of the theater. The appellee August Kuhnla, Incorporated, manufactures under the patent issued to Joseph A. Peterman, No. 1,320,568, granted November 4, 1919, for a sash-operating mechanism. This ventilator is of the large type, with a door-opening having vertical jambs; the doors are connected by ordinary strap-hinges to the sills of the openings. When closed, the door occupies a vertical position, abutting or striking against the vertical jambs. The doors are simultaneously operated by a series of rods, all connected with a collar on an upright post. It opens very much as an umbrella. The vertical post is of metal, located centrally within the skylight, and upon the post there is a tubular collar. This tubular collar has pivotally connected therewith the inner ends of a series of heavy radiating metal rods, the outer ends of which are pivotally connected with the center or

middle portion of the respective doors. The doors are normally held closed in the vertical position when the collar is elevated and held suspended near the top of the center vertical post. There is attached a restraining-rope. When this rope is released, as by the melting of a fusible link, the collar automatically, by the weight or thrust, or both, of the rods, starts its downward travel on the post, and the pusher thrust, together with the weight, directs a positive outward pressure against the connecting doors and places them in an open position. When the doors are opened, the collar on the central post rests at the foot of the post.

(1) The defenses interposed are that there is a want of invention, because of the state of the prior art, and that there is no infringement. When application was made by the appellant for a patent originally, five claims were presented. Not any of these claims were limited to a structure wherein the opening was provided with vertical or inclined jambs, and, when the claims were allowed, it was for an inclined jamb. Further, by his second amendment, the applicant limited four of his claims for a frame projecting from the roof of the building. We must therefore consider the patent within the scope of its claim as allowed by the Patent Office. (*Minerals Separation Co.* v. *Butte Mining Co.*, 250 U. S., 336; 39 Sup. Ct., 496; 63 L. Ed., 1019.) For when an applicant for a patent to cover a new combination is compelled by rejection or submission to narrow his claim by the introduction of a new element, he cannot, after the issue of the patent, broaden his claim by dropping the element which he was compelled to include in order to secure his patent. (*Shepard* v. *Carrigan*, 116 U. S., 593; 6 Sup. Ct., 493; 29 L. Ed., 723.)

(2) We think that the appellee's structure does not infringe. The president of the appellant corporation, in testifying as to the construction and operation of its skylight, made under the patent in suit, said that on top of the curb on the roof is a frame with a series of openings; each opening has inclined jambs with a roof on, and in that jamb is a door or doors hinged at the bottom of each door. No weights are necessary. He said the opening of the inclined jamb at a 43-degree angle guards against the storm or wind preventing it from opening, and it is for this reason he provides an inclined jamb, as well as an inclined position for the doors. In testifying as to the appellee's skylight, he said that—

> The weight of the center part, as soon as that is released, being itself on a vertical line, she falls down, and that drop from falling, that opens the door; that is, the weight.

The particular skylight which is claimed to infringe, he testified, occupied the vertical position, and further:

> Q. And you found that they were intended to be opened by the weight of those rods plus that runner on that vertical standard? A. That is what I found.

In the patent in suit there are inclined jambs, and the doors are positioned in an inclined position. In the appellee's structure, there are no inclined jambs. The shutters are in a vertical position, and are started by the impulse of the weight of the rods, when the collar supporting them on the vertical post drops. The appellee's device does not have a rope control, as does the appellant's. In the appellant's device, a rope running to each door controls a series of doors, and it is when, by the melting of the fusible link, the ropes are released that the shutters drop of their own weight; this pursuant to gravity alone. The control of the appellee's structure is by rigid rods, and it is impossible to open any shutter independently, without releasing one of the rods by disconnection. It requires the weight of the rods or the thrust of the same to open the door in appellee's structure. The appellant concedes this difference, but it contends that the rigid connecting-rods of appellee's structure attain the same function and the same result as the appellant's inclined jamb, and maintains that in this sense they are the equivalent of the inclined jamb. But it is plain that the appellee's connecting-rods are not jambs in the ordinary acception of that term. They are not side posts or sides of a door or window, as the word "jamb" is defined by the dictionaries:

> A side or vertical piece of any opening or aperture in a wall, such as a door, window, or chimney, which helps to bear the lintel or other member overhead, serving to sustain or discharge the superincumbent weight of the wall.—*Century Dictionary.*

These rods are movable and slidable, and are not stationary, as a jamb is. The rods exerted a driving weight to force the vertical door outward and downward, and the appellant's inclined jambs are stationary, which act as stops to hold the appellant's door tilted outward or overbalanced, so that, when the doors are released, they will, of their own weight and without any action whatever on the part of the inclined jambs, drop down. While it is not necessary, to make out a case of infringement, that the arrangement which infringes performs the same service, still it must produce the same results in substantially the same way. (*Werner* v. *King*, 96 U. S., 218; 24 L. Ed., 613.) Where each element is one of the operated means, the identity depends, not merely upon the function performed, but the manner in which it is performed. (*U. S. Light & Heat Corp.* v. *Safety Car H. & L. Co.*, (C. C. A.,) 261 Fed. 915; *Imperial Bottle Cap & Mach. Co.* v. *Crown Cork & Seal Co.*, 139 Fed., 312; 71 C. C. A., 442.)

3. Within the rule of equivalents, the thing thought to be the equivalent must be shown to perform the same function and to do it in substantially the same manner as the thing of which it is alleged to be the equivalent. Applying this rule to the appellee's structure and its operation, we think it is clear that there was no infringement.

Decree affirmed.

ADJUDICATED PATENTS.

(U. S. C. C. A. N. J.) The Wooster patent, No. 933,011, for belting, *Held* void for anticipation. *Duryea Mfg. Co.* v. *Agrippa Mfg. Corporation*, 273 F. R., 522.

(U. S. C. C. A. N. Y.) The Goldman patent, No. 1,009,502, for skylight. *Held* not infringed. *Superior Skylight Co.* v. *August Kuhnla, Inc.*, 273 F. R., 482.

(U. S. C. C. A. N. Y.) The Knapp patent, No. 44,480, for design for candles, *Held* invalid for want of invention. *Knapp* v. *Will & Baumer Co.*, 273 F. R., 380.

(U. S. C. C. A. N. Y.) The Fuller reissue patent, No. 13,749, for paper-making machine. *Held* valid and infringed. *Tompkins-Hawley-Fuller Co. v. Holden*, 273 F. R., 424.

Adverse Decision in Interference.

PATENT No. 1,340,907.

On August 9, 1921, a decision was rendered that John E. Wuhlfeld was not the first inventor of the subject-matter covered by claim 2 of his Patent No. 1,340,907, subject, "Baffle-walls," and no appeal having been taken within the time allowed such decision has become final.

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 2D DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aalborg, Christian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. High-voltage disconnecting-switch. No. 1,385,977; Aug. 2; v. 289; p. 3.

Abbott, Jonathan P., Painesville, Ohio. Eaves-trough hanger. No. 1,385,978; Aug. 2; v. 289; p. 3.

Adair, Sidney T., and H. C. Fyans, deceased, Au Sable Forks, N. Y.; C. Fyans, administratrix. Apparatus for transferring liquids. No. 1,386,301; Aug. 2; v. 289; p. 67.

Adams, Charles H., Porter, Pa. Weeder attachment. No. 1,386,483; Aug. 2; v. 289; p. 101.

Adams, Eugene W. (See Lellis, Roy W., and Adams.)

Adams, James D., Belle Vernon, Pa. Furnace cover or door. No. 1,386,218; Aug. 2; v. 289; p. 51.

Adamson, John S., San Antonio, Tex. Attachment for T stands. No. 1,386,084; Aug. 2; v. 289; p. 25.

Adsit, Charles G., Atlanta, Ga. Distilling apparatus. No. 1,386,484; Aug. 2; v. 289; p. 101.

Aeolian Company, The. (See Head, Robert, assignor.)

Albertson & Company. (See Albertson, Frans O., assignor.)

Albertson, Frans O., assignor to Albertson & Company, Sioux City, Iowa. Valve-grinders. No. 1,386,085; Aug. 2; v. 289; p. 25.

Alger, Russell A, Detroit, Mich. Vehicle-wheel. No. 1,386,086; Aug. 2; v. 289; p. 25.

All-Steel-Equip Company. (See Erickson, Axel F., assignor.)

Allan, Allen C., Chicago, Ill. Wrench. No. 1,386,149; Aug. 2; v. 289; p. 37.

Allatt, Thomas, Westfield, N. J., assignor to International Cork Company, Brooklyn, N. Y. Cork-feeding device. No. 1,386,485; Aug. 2; v. 289; p. 101.

Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupting device. No. 1,385,980; Aug. 2; v. 289; p. 3.

Allcutt, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,385,979; Aug. 2; v. 289; p. 3.

Allen, Edward C., New Haven, Conn. Means for stopping railway-trains at danger-signals. No. 1,386,302; Aug. 2; v. 289; p. 68.

Allen Hosiery Company. (See Longtin, William J., assignor.)

Allingham, John, Los Angeles, Calif. Extracting potassium salts. No. 1,386,486; Aug. 2; v. 289; p. 101.

American Dressler Tunnel Kilns. (See Dressler, Philip d'H., assignor.)

American Dressler Tunnel Kilns. (See Mechan, Paul A., assignor.)

American Optical Company. (See Bishop, Fred M., assignor.)

American Optical Company. (See Maynard, Albert E., assignor.)

American Telephone and Telegraph Company. (See Demarest, Charles, assignor.)

American Wire Mold Company. (See Petersen, Anker, assignor.)

Anderson, Leonard A., assignor of one-half to R. Moss, Los Angeles, Calif. Jack. No. 1,386,220; Aug. 2; v. 289; p. 52.

Ansell, Hamlin G. (See Stroud, Fred, assignor.)

Apollo Magneto Corporation. (See Fuegel, Y., and Schmid, assignors.)

Archer, Alfred W., assignor to Sterling Iron Works, Stockton, Calif. Water-cooled bearing for pump-shafts. No. 1,386,219; Aug. 2; v. 289; p. 51.

Archer, Alfred W. (See Barnickol, W. F., and Archer.)

Armstrong, Percy A. E., Loudonville, N. Y. Heat-conducting device. No. 1,386,303; Aug. 2; v. 289; p. 68.

Asbestos Protected Metal Company. (See Marks, H. E., and Frazier, assignors.)

Austin, Walter M. (See Mahoney, J. N. and Austin.)

Bache, Sigvald E. E., Chicago, Ill. Sugar container and dispenser. No. 1,386,221; Aug. 2; v. 289; p. 52.

Bailey, James, Martel, Ohio. Onion-harvester. No. 1,386,222; Aug. 2; v. 289; p. 52.

Banfield, Edwin F., Atlantic Highlands, N. J. Elevator control. No. 1,386,223; Aug. 2; v. 289; p. 52.

Barker, Bertie T. P., Long Ashton, Somerset, England. Production of pectous substances. No. 1,386,224; Aug. 2; v. 289; p. 53.

Barker, Percy E., assignor to The Van Dorn Iron Works Company, Cleveland, Ohio. Body-tilting mechanism for motor-trucks. No. 1,385,390; Aug. 2; v. 289; p. 84.

Barland, Peter, Anaconda, Mont. Feed-trough structure. No. 1,386,225; Aug. 2; v. 289; p. 53.

Barnard, Samuel G. (See Dotzer, H., and Barnard.)

Barnard, Walter E., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,386,391; Aug. 2; v. 289; p. 84.

Barnickol, William F., and A. W. Archer, assignors to Sterling Iron Works, Stockton, Calif. Oiling device for turbine-pumps. No. 1,386,304; Aug. 2; v. 289; p. 68.

Barrett, Charles, New York, N. Y. Electric sealing device. No. 1,386,305; Aug. 2; v. 289; p. 68.

Barrett Company, The. (See Perry, Ray P., assignor.)

Bass, Joseph W., San Francisco, Calif. Metallurgical process. No. 1,386,226; Aug. 2; v. 289; p. 53.

Baum, Charles, Brooklyn, N. Y. Snap-fastener. No. 1,386,306; Aug. 2; v. 289; p. 69.

Becker, Rudolph, Roselle Park, N. J., assignor to The Singer Manufacturing Company. Thread-controlling mechanism for sewing-machines. No. 1,386,307; Aug. 2; v. 289; p. 69.

Becket, Frederick M., assignor to Electro Metallurgical Company, Niagara Falls, N. Y. Refining crude electric-furnace silicon. No. 1,386,227; Aug. 2; v. 289; p. 53.

Bedaux, Charles E., Cleveland, Ohio. Safety-fender for vehicles. No. 1,386,308; Aug. 2; v. 289; p. 69.

Behrmann, Benjamin, Manchester, N. H. Shoe-upper. No. 1,386,228; Aug. 2; v. 289; p. 53.

Belcher, Mark, Goose Creek, Tex. Wrench. No. 1,386,229; Aug. 2; v. 289; p. 53.

Bell, H. G. (See Hile, Thomas J., assignor.)

Benenati, Nicholas, New York, N. Y. Hat-cleaning machine. No. 1,386,230; Aug. 2; v. 289; p. 54.

Berk, Louis, Alstown, Wash. Automatic car-braking mechanism. No. 1,386,488; Aug. 2; v. 289; p. 102.

Berry, Emory R., Davenport, Iowa. Assembling device. No. 1,386,585; Aug. 2; v. 289; p. 121.

Bethlehem Steel Bridge Corporation. (See Hilpert, Meier G., assignor.)

Billon, Frederic, Solothurn, Switzerland. Electrical ignition apparatus for internal-combustion engines. No. 1,386,231; Aug. 2; v. 289; p. 54.

Bingman, Carroll E., Washington, D. C. Device for removing foreign bodies from the eye. No. 1,386,309; Aug. 2; v. 289; p. 69.

Birkigt, Marc, Bois-Colombes, France. Motor mechanism. No. 1,386,489; Aug. 2; v. 289; p. 102.

Bishop, Fred M., assignor to American Optical Company, Southbridge, Mass. Adhesive for lenses. No. 1,386,046; Aug. 2; v. 289; p. 17.

Blackmon, Enoch J., Sherman, Tex. High-pressure suction fan and blower. No. 1,386,548; Aug. 2; v. 289; p. 114.

Blankenhorn, George S., Milwaukee, Wis. Abrasion-testing machine. No. 1,386,087; Aug. 2; v. 289; p. 25.

Boerner, Arno, Scheveningen, Netherlands. Propeller. No. 1,386,490; Aug. 2; v. 289; p. 102.

Boettcher, William J. F., Chicago, Ill. Tool-grinder. No. 1,386,088; Aug. 2; v. 289; p. 26.

Bolas, Harold, assignor to G. G. Parnall, Bristol, England. Alighting-gear of aircraft. No. 1,386,310; Aug. 2; v. 289; p. 69.

Bole, Robert E., Los Angeles, Calif. Apparatus for fighting fire in liquid-receptacles. No. 1,386,232; Aug. 2; v. 289; p. 54.

Booth Electric Furnace Co., The. (See Morris, William L., assignor.)

Borchert, Fred L. (See Borchert, William and F. L.)

Borchert, William and F. L., Rockford, Ill. Combined tag affixing and marking machine. No. 1,386,047; Aug. 2; v. 289; p. 17.

Borden Company, The. (See Taylor, Burt E., assignor.) (Reissue.)

Bosch, Robert, Aktiengesellschaft. (See Steinhart, H., assignor.)

Bowerman, Allen A., Hope Bay, British Columbia, Canada. Twisting-machine for yarns, cottons, and the like. No. 1,386,233; Aug. 2; v. 289; p. 54.

Boyer, Orin N., Long Beach, Calif. Fruit-grader. No. 1,386,549; Aug. 2; v. 289; p. 114.

Braddy, Clyde E., assignor to Wyoming Thresher Company, Pinebluff, Wyo. Straw rack. No. 1,386,048; Aug. 2; v. 289; p. 17.

Brant, Jacob A., Reading, Pa. Bottle-holder. No. 1,386,392; Aug. 2; v. 289; p. 84.

Breitenbach, Derek S., Washington, D. C. Rheostat. No. 1,386,150; Aug. 2; v. 289; p. 38.

Brewer, Edward C., Seattle, Wash. Invalid-bed table. No. 1,386,151; Aug. 2; v. 289; p. 38.

Brigham, William M., Newark, N. J. Prick-punching tool. No. 1,386,152; Aug. 2; v. 289; p. 38.

British Ropeway Engineering Company, Limited. (See Shields, Herbert F. H., assignor.)

Brooks, John C., Paterson, N. J. Loom. No. 1,386,550; Aug. 2; v. 289; p. 114.

Brown, Elmer D., Fort Worth, Tex. Culinary utensil. No. 1,386,311; Aug. 2; v. 289; p. 69.

Brown, Herbert W., Ashland, Ohio. Focusing device for headlights. No. 1,386,312; Aug. 2; v. 289; p. 70.

Brown, James M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. No. 1,385,981; Aug. 2; v. 289; p. 3.

Brown, John W., Jr., Philadelphia, Pa. Thrust-bearing. No. 1,386,491; Aug. 2; v. 289; p. 102.

Brown, Thomas R., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Car and train-pipe coupling. No. 1,386,235; Aug. 2; v. 289; p. 54.

Brown, Thomas R., Sparkill, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Control mechanism for fluid and electric couplings. No. 1,386,234; Aug. 2; v. 289; p. 54.

Brown, William A., Chicago, Ill. Washing-machine. No. 1,386,451; Aug. 2; v. 289; p. 95.

Bruni, Giuseppe, assignor to Pirelli & Co., Milan, Italy. Vulcanization of rubber. No. 1,386,153; Aug. 2; v. 289; p. 38.

Brush, Alanson P., Detroit, Mich. Engine-lubricating system. No. 1,386,154; Aug. 2; v. 289; p. 38.

Bryson, Tandy A., Troy, N. Y., assignor to Tolhurst Machine Works. Centrifugal machine. No. 1,385,982; Aug. 2; v. 289; p. 4.

Buckham, George T. (See Dawson, A. T., and Buckham.)

Bumbarger, Clarence R., assignor to George W. Johnson Manufacturing Company, Kansas City, Mo. Latch. No. 1,386,551; Aug. 2; v. 289; p. 114.

Burch, Walter S., and W. A. Schell, assignors to Rochester Railway & Light Company, Rochester, N. Y. Electric furnace. No. 1,386,155; Aug. 2; v. 289; p. 38.

Burt, F. N., Company. (See Palmer, Lyndon C., assignor.)

Burt, Leslie N. (See Richards, G., Burt, and Freeborn.)

Bush, Harold D., Greenhithe, assignor to H. Merton, Reading, England. Fuel-injection mechanism for internal-combustion engines. No. 1,386,049; Aug. 2; v. 289; p. 18.

Butterfield, Percy F., Toronto, Ontario, Canada. Wire-grooving machine. No. 1,386,156; Aug. 2; v. 289; p. 39.

Butzen, Thomas F., assignor of one-half to D. Montgomery, Madison, Wis. Toothed gear. No. 1,386,089; Aug. 2; v. 289; p. 26.

Cage Engine Syndicate. (See Cage, John M., assignor.)

Cage, John M., Long Beach, Calif., assignor to Cage Engine Syndicate Inc. Internal-combustion engine. No. 1,386,393; Aug. 2; v. 289; p. 84.

Cage, John M., Long Beach, Calif., assignor to Cage Engine Syndicate Inc., New York, N. Y. Internal-combustion engine. No. 1,386,394; Aug. 2; v. 289; p. 85.

Calleson, Amos, Brooklyn, N. Y. Bottle-sealing machine. No. 1,386,313; Aug. 2; v. 289; p. 70.

Callodi, Giuseppe, Chicago, Ill. Embalming fluid. No. 1,386,157; Aug. 2; v. 289; p. 39.

Camelinat, Eugene G., Birmingham, England. Lamp-bracket. No. 1,386,453; Aug. 2; v. 289; p. 95.

Candlot, Charles, Paris, France. Conveyer. No. 1,386,158; Aug. 2; v. 289; p. 39.

Carlson, Victor R., assignor of one-half to J. Olson, Duluth, Minn. Band-brake. No. 1,386,454; Aug. 2; v. 289; p. 96.

Carrie Gyroscopic Corporation, The. (See Rosaiter, George A., assignor.)

Carrier, Albert H., Asheville, N. C., assignor of one-half to E. W. Grove, St. Louis, Mo. Building-block. No. 1,386,314; Aug. 2; v. 289; p. 70.

Carr, Joseph V., and F. W. Matz, Evansville, Ind. Draft-equalizer for steam-boilers. No. 1,386,050; Aug. 2; v. 289; p. 18.

Carney, George E., Long Beach, Calif. Citrus-fruit-juice extractor. No. 1,386,552; Aug. 2; v. 289; p. 115.

Carpenter, Daniel A., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,386,090; Aug. 2; v. 289; p. 26.

Cary, Jesse H., Valdosta, Ga. Ice crushing and conveying mechanism. No. 1,386,315; Aug. 2; v. 289; p. 70.

Cary Manufacturing Company. (See Cary, Spencer C., assignor.)

Cary, Spencer C., assignor to Cary Manufacturing Company, Brooklyn, N. Y. Means for tying and sealing shipping-packages. No. 1,386,395; Aug. 2; v. 289; p. 85.

Case, G. Harry, Philadelphia, Pa., assignor to J. T. Ryerson & Son, Chicago, Ill. Controlling system for feed-motors. No. 1,386,159; Aug. 2; v. 289; p. 39.

Caulk, L. D., Co., The. (See Smith, William C., assignor.)

Celluloid Company, The. (See Lindsay, William G., assignor.)

Chain Belt Company. (See Singer, G. P., and Hickman, assignors.)

Chambers, Frank N., Davison, Mich. Cradle. No. 1,386,236; Aug. 2; v. 289; p. 55.

Chapman, Charles E., assignor of one-half to J. Goodfellow, Fort Edward, N. Y. Method and apparatus for burning fuel-oils. No. 1,386,091; Aug. 2; v. 289; p. 26.

Chesnutt, John L., assignor to The Service Caster & Truck Company, Kansas City, Mo. Combination roller and ball bearing wheel. No. 1,386,160; Aug. 2; v. 289; p. 39.

Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-starting system. No. 1,386,316; Aug. 2; v. 289; p. 71.

Clark, William R., Seattle, Wash. Carbureter. No. 1,386,238; Aug. 2; v. 289; p. 55.

Claassen, William A., Fond du Lac, Wis. Adjustable caster. No. 1,386,317; Aug. 2; v. 289; p. 71.

Claydon, Henry, *et al.* (See Trainor, Devaney, C. E., assignor.)

Clemens, Harry B., Port Orchard, Wash. Bolt-tightener. No. 1,386,455; Aug. 2; v. 289; p. 96.

Clifford, William H., Ealing, London, England. Flexible shaft-coupling. No. 1,386,161; Aug. 2; v. 289; p. 40.

Cole, George H., Wenona, Ill. Washer. No. 1,386,092; Aug. 2; v. 289; p. 26.

Colling, Alfred S. (See Edwards, C. K., and Colling.)

Collins, Harry R., Allentown, Pa., assignor to Fuller-Lehigh Company. Pulverizer-mill. No. 1,386,093; Aug. 2; v. 289; p. 27.

Collins, Ralph E., Indianapolis, Ind. Cylinder-head and manufacturing same. No. 1,386,162; Aug. 2; v. 289; p. 40.

Congoleum Company. (See Jackson, Ralph G., assignor.)

Conrad, Frank, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Starting mechanism for automobiles. No. 1,385,983; Aug. 2; v. 289; p. 4

Conti, James T. F. (See Tiranty, P. H. L., and Conti.)

Copland, Peter, Portsmouth, England. Steering and propelling mechanism for boats. No. 1,386,237; Aug. 2; v. 289; p. 55.

Cook, Edward J., Brainerd, Minn. Merry-go-round. No. 1,386,553; Aug. 2; v. 289; p. 115.

Cook, Joseph F., San Francisco, Calif. Attachment for farming implements. No. 1,386,456; Aug. 2; v. 289; p. 96.

Cooper, Frank. (See Hill, G. C., and Cooper.)

Cornelison, Floyd, Milwaukee, Wis. Transmission. No. 1,386,396; Aug. 2; v. 289; p. 85.

Cosgrove, Allen R. (See Kraft, Edward L., assignor.)

Cotabish, Nelson C., *et al.* (See Torossian, Gregory, assignor.)

Couch, Buel, Sioux City, Iowa. Needle-threader. No. 1,386,239; Aug. 2; v. 289; p. 55.

Cowan, Richard, Climax, Minn. Universal welding-clamp. No. 1,386,318; Aug. 2; v. 289; p. 71.

Coyle, James S., St. Louis, Mo. Spark-plug. No. 1,386,457; Aug. 2; v. 289; p. 96.

Craig, Edgar H., Rockdale, Tenn. Automatic weighing-machine. No. 1,386,319; Aug. 2; v. 289; p. 71.

Cundall, Robert N. (See Wright, K. K., and Cundall.)

Curtis, Edma H., Jr., Norwood, Ohio. Glassware-machine. No. 1,386,240; Aug. 2; v. 289; p. 56.

Curtis, Lewis B., Bridgeport, Conn. Cutting-off machine. No. 1,386,163; Aug. 2; v. 289; p. 40.

Dabbs, Albert E. (See Hindle, A. H., Savage, Dabbs, and Liddle.)

Dade, Thomas G., South Fort Smith, Ark. Wheel. No. 1,386,164; Aug. 2; v. 289; p. 40.

Dalglish, John E., Somerville, Mass. Wall-board. No. 1,386,554; Aug. 2; v. 289; p. 115.

Danielson, Jacob, Butte, Mont. Awl. No. 1,386,320; Aug. 2; v. 289; p. 71.

Danks, Frank, Detroit, Mich. Process and apparatus for degreasing garbage. No. 1,386,165; Aug. 2; v. 289; p. 40.

Davis, Arthur L., Liberty, Mo., and K. D. Jacob, Helena, Ark., assignors to United States of America. Making a catalyst. No. 1,386,555; Aug. 2; v. 289; p. 115.

Davis, Cortland W., Oak Park, assignor to The Mantle Lamp Company of America, Chicago, Ill. Support for shades. No. 1,385,984; Aug. 2; v. 289; p. 4.

Davis, Fred M., assignor to Pullman Couch Company, Chicago, Ill. Convertible furniture. No. 1,386,397; Aug. 2; v. 289; p. 85.

Davis, Lawrence C., Chicago, Ill. Sanitary wrapper for toothbrush-bodies. No. 1,386,398; Aug. 2; v. 289; p. 85.

Davis, Robert E. (See Marshall, John L., and Davis.)

Davis, Robert W., Hiltonia, N. J. Aeronautical propeller. No. 1,386,458; Aug. 2; v. 289; p. 96.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,386,459; Aug. 2; v. 289; p. 97.

Dawson, Arthur T., and G. T. Buckham, assignors to Vickers Limited, Westminster, London, England. Ordnance. No. 1,386,460; Aug. 2; v. 289; p. 97.

Dayton Engineering Laboratories Company, The. (See Chryst, William A., assignor.)

Deck, Frank O., Milwaukee, Wis. Luminous attachment for electric-switch controllers. No. 1,386,241; Aug. 2; v. 289; p. 56.

Decker, Frank A., New York, N. Y. Sanitary device. No. 1,385,985; Aug. 2; v. 289; p. 4.

De Grousseau, Edouard, and A. Vicongne, Clichy, France. Treatment of cocoa waste. No. 1,386,166; Aug. 2; v. 289; p. 41.

De Langie, Godfrey A. (See Oca-Balda, J. A., and De Langie.)

De Laval Separator Company, The. (See Leitch, Meredith, assignor.)

De Laval Separator Company, The. (See Wright, Bert R., assignor.)

Demarest, Charles S., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Telephone repeater equipment. No. 1,386,321; Aug. 2; v. 289; p. 72.

Det Tekniske Forsogsaktieselskab. (See Goldschmidt, Rudolf, assignor.)

De Vito, Joseph M., Torrance, assignor of two-fifths to W. L. Groves, Los Angeles, Calif. Creel-frame. No. 1,386,556; Aug. 2; v. 289; p. 115.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Looper mechanism for sewing-machines. No. 1,386,322; Aug. 2; v. 289; p. 72.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Needle-bar-operating mechanism. No. 1,386,323; Aug. 2; v. 289; p. 72.

Diamond Match Company, The. See Donnelly, Joseph C., assignor.)

Dieter, William, Brooklyn, N. Y. Pressure-reducing valve. No. 1,386,051; Aug. 2; v. 289; p. 18.

Dixon, Robert E., St. Louis, Mo. Automatic brake. No. 1,386,242; Aug. 2; v. 289; p. 56.

Donnelly, Joseph C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Box-filling machine. No. 1,386,243; Aug. 2; v. 289; p. 56.

Dow Chemical Company, The. (See Dow, Herbert H., assignor.)

Dow Chemical Company, The. (See Jones, Coulter W., assignor.)

Dow Chemical Company, The. (See Kirst, William E., assignor.)

Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Electrolytic apparatus. No. 1,386,094; Aug. 2; v. 289; p. 27.

Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Treating brine. No. 1,386,244; Aug. 2; v. 289; p. 56.

Dow, Louis F., Company. (See Groh, Robert C., assignor.)

Dotzer, Hugo, and S. G. Barnard, Seattle, Wash. Bumper. No. 1,386,452; Aug. 2; v. 289; p. 95.

Duggan, Joseph, Detroit, Mich. Tow-line. No. 1,386,052; Aug. 2; v. 289; p. 18.

Dunham Company. (See Dunham, Ray E., assignor.)

Dunham, Ray E., assignor to Dunham Company, Berea, Ohio. Metallic wheel. No. 1,386,167; Aug. 2; v. 289; p. 41.

Dressler, Philip d'H., Zanesville, Ohio, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Burner for tunnel-kilns. No. 1,385,986; Aug. 2; v. 289; p. 4.

Dyer, John, assignor of one-half to N. C. Mather, Chicago, Ill. Loading and unloading device. No. 1,386,053; Aug. 2; v. 289; p. 19.

Eaton, George M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Power-transmission system. No. 1,385,987; Aug. 2; v. 289; p. 5.

Eddington, A. T. (See Pokorny, James T., assignor.)

Edison, Thomas, A., assignor to Thomas A. Edison, Incorporated, Llewellyn Park, West Orange, N. J. Electrode element for galvanic batteries and producing same. No. 1,386,095; Aug. 2; v. 289; p. 27.

Edison, Thomas, A., Incorporated. (See Edison, Thomas A., assignor.)

Edwards, Charles K., Chingford, and A. S. Colling, Finchley, London, England. Automobile vehicle. No. 1,386,557; Aug. 2; v. 289; p. 115.

Edwards, Vernor B., Middletown, Ind. Washing-machine tub. No. 1,386,245; Aug. 2; v. 289; p. 57.

Eklundh, John G. G., Columbus, Ohio, assignor to Universal Milking Machine Company. Pulsator for milking-machines. No. 1,386,246; Aug. 2; v. 289; p. 57.

Electro Metallurgical Company. (See Becket, Frederick M., assignor.)

Elkin, Margaret R. (See Lloyd, Lemuel, assignor.)

Entrekin, George, Pittsburgh, Pa. Washing-machine. No. 1,386,399; Aug. 2; v. 289; p. 86.

Erickson, Axel F., assignor to All-Steel-Equip Company, Aurora, Ill. Metal shelving. No. 1,386,168; Aug. 2; v. 289; p. 41.

Esmueller, Ernest A., and L. P. Huggins, St. Louis, Mo. One-piece button and buckle. No. 1,386,339; Aug. 2; v. 289; p. 75.

Evers, Arthur J., Chicago, Ill. Box-making machine. No. 1,385,988; Aug. 2; v. 289; p. 5.

Farmer, James D., Brownville, N. Y. Safety-stop for vehicles. No. 1,386,324; Aug. 2; v. 289; p. 72.

Fay, Clarence S., Los Angeles, Calif. Thermostatic electric switch for flatirons and the like. No. 1,386,558; Aug. 2; v. 289; p. 115.

Fegely, John P., Allentown, Pa. Brake mechanism. No. 1,386,559; Aug. 2; v. 289; p. 116.

Fehn, Frank J., East Orange, assignor to The Whitehead & Hoag Company, Newark, N. J. Badge-fastener. No. 1,386,096; Aug. 2; v. 289; p. 27.

Fennell, John B., and E. B. Flowers, Columbia, S. C. Means for attaching picker-stick checks to loom-lays. No. 1,386,169; Aug. 2; v. 289; p. 41.

Fierlein, Albert L., Batavia, Ill. Educational toy. No. 1,386,170; Aug. 2; v. 289; p. 41.

Finlayson, William A., Detroit, Mich. Radiator. No. 1,386,461; Aug. 2; v. 289; p. 97.

Fisher, Andrew S., Altoona, Pa. Wrench. No. 1,386,325; Aug. 2; v. 289; p. 72.

Fisher, James J., Junior, W. Va. Trolley-wire splice. No. 1,386,326; Aug. 2; v. 289; p. 73.

Fisher, James J., Junior, assignor of one-half to W. L. Fisher, Tunnelton, W. Va. Expansible packing. No. 1,386,097; Aug. 2; v. 289; p. 27.

Fisher, William L. (See Fisher, James J., assignor.)

Fleming, Frank L., assignor to Phillips Mine and Mill Supply Co., Pittsburgh, Pa. Means for controlling railway-cars at loading-points. No. 1,386,560; Aug. 2; v. 289; p. 116.

Flitcroft, James E., assignor to C. E. Schanck, Asbury Park, N. J. Tank. No. 1,386,462; Aug. 2; v. 289; p. 97.

Flora, Ellsworth E., Chicago, Ill., assignor to The National Binding Machine Company, New York, N. Y. Sealing-tool. No. 1,386,098; Aug. 2; v. 289; p. 27.

Flowers, Edward B. (See Fennell, J. B., and Flowers.)

Fordyce, John R., St. Louis, Mo., assignor of one-half to E. P. Pierson, Washington, D. C. Firearm. No. 1,386,247; Aug. 2; v. 289; p. 57.

Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Electric range. No. 1,385,990; Aug. 2; v. 289; p. 5.

Forshee, Frank F., Flint, Mich., assignor to Westinghouse Electric Products Company. Terminal structure for electric ranges. No. 1,385,989; Aug. 2; v. 289; p. 5.

Forsseblad, Nils B., Västerås, Sweden. Electrical steam and hot-water boiler. No. 1,386,487; Aug. 2; v. 289; p. 101.

Forster, Albert O. and P. M., Berkeley, Calif. Trap-nest. No. 1,386,327; Aug. 2; v. 289; p. 73.

Forster, Percy M. (See Forster, Albert O. and P. M.)

Foster, Edward B., Quartzsite, Ariz. Hoisting device. No. 1,386,561; Aug. 2; v. 289; p. 116.

Foster, Joseph B., Roanoke, Va. Diatoric or pinless tooth. No. 1,386,463; Aug. 2; v. 289; p. 97.

Fowler, Alfred B., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Clutch mechanism. No. 1,386,054; Aug. 2; v. 289; p. 19.

Franke, Arthur H., Manitowoc, Wis. Phonograph-operating mechanism. No. 1,386,099; Aug. 2; v. 289; p. 28.

Frawley, John J., Stillwater, Minn. Quick-steering mechanism for agricultural and other wheeled machines. No. 1,386,562; Aug. 2; v. 289; p. 116.

Frasier, William R. (See Marks, H. E., and Frasier.)

Frederick, William H., Earleigh Heights, Md. Hatpin. No. 1,386,328; Aug. 2; v. 289; p. 73.

Freeborn, James E. (See Richards, G., Burt, and Freeborn.)

Freeman, Robert M., Fremont, Nebr. Soil-loosening device. No. 1,386,171; Aug. 2; v. 289; p. 42.

French, Frank H., Preston, Iowa. Mop or brush. No. 1,386,100; Aug. 2; v. 289; p. 28.

French, Harry C., Cleveland, Ohio. Bookmark. No. 1,385,991; Aug. 2; v. 289; p. 5.

Fried. Krupp Aktiengesellschaft Germaniawerft. (See Lage, Ernst, assignor.)

Fuegel, Gottlob, and H. Schmid, assignors, by mesne assignments, to Apollo Magneto Corporation, Brooklyn, N. Y. Closure. No. 1,386,101; Aug. 2; v. 289; p. 28.

Fuller, Charles H., Portland, Oreg. Lifeboat-derrick. No. 1,386,102; Aug. 2; v. 289; p. 28.

Fuller, G. C. Manufacturing Company, The. (See Fuller, Galus C., assignor.)

Fuller, Galus C., assignor to The G. C. Fuller Manufacturing Company, Cincinnati, Ohio. Gas-lighter. No. 1,386,563; Aug. 2; v. 289; p. 117.

Fuller-Lehigh Company. (See Collins, Harry R., assignor.)

Funk, John E., Stockton, Calif. Grade-maintaining device for ditching-machines. No. 1,386,103; Aug. 2; v. 289; p. 28.

Furber, James B., Rahway, N. J. Circuit-controlling telephone-receiver support. No. 1,386,464; Aug. 2; v. 289; p. 98.

Futterer, Edward J., Buffalo, N. Y. Accident-preventing attachment for vehicles. No. 1,386,172; Aug. 2; v. 289; p. 42.

Fyans, Catherine, administratrix. (See Adair, S. T., and Fyans.)

Fyans, Hugh C. (See Adair, S. T., and Fyans.)

Gallagher, Emma G., *et al.* (See Schadee, Gustav, assignor.) (Reissue.)

Gallezzi, Joseph, San Francisco Calif. Educational and amusement device. No. 1,386,248; Aug. 2; v. 289; p. 57.

Galvin, Ethelyn V. (See Moore, E., assignor.)

Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-vulcanizing method and apparatus. No. 1,386,465; Aug. 2; v. 289; p. 98.

Gunder, James S., Forest Gate, England. Rotary scraping-tool. No. 1,386,249; Aug. 2; v. 289; p. 58.
Gardner, Cyril R. P., and H. Parker, London, England. Caster. No. 1,386,250; Aug. 2; v. 289; p. 58.
Garrety, William P. (See Murlin, J. R., and Garrety.)
Gartside, John, Seattle, Wash. Thermostatic valve. No. 1,386,469; Aug. 2; v. 289; p. 98.
Garza, Daniel, New Orleans, La. House construction. No. 1,386,231; Aug. 2; v. 289; p. 58.
Geisdorf, Frank C., Los Angeles, Calif. Spring-tire. No. 1,386,564; Aug. 2; v. 289; p. 117.
George, William B., Chicago, Ill. Molding-machine. No. 1,386,104; Aug. 2; v. 289; p. 29.
General Railway Signal Company. (See Preston, Neil D., assignor.)
Gettle, Homer R., and C. S. Scott, Bluffton, Ind. Ratchet mechanism. No. 1,386,400; Aug. 2; v. 289; p. 86.
Gilchrist, Vincent T., assignor, by mesne assignments, to Superior Refining Process Co., San Francisco, Calif. Fractional-distillation process and apparatus. No. 1,386,467; Aug. 2; v. 289; p. 98.
Girodat, Aaron. (See Hilton, E., and Girodat.)
Glandel, George, Los Angeles, assignor of one-half to G. L. Mitchell, Santa Monica, Calif. Auxiliary windshield. No. 1,386,565; Aug. 2; v. 289; p. 117.
Goldner, Simon, New York, N. Y. Combined bracket and fastener. No. 1,386,468; Aug. 2; v. 289; p. 98.
Goldschmidt, Rudolf, Berlin, Germany, assignor to Det Tekniske Forsøgsaktieselskab, Charlottenlund, Denmark. Mechanism for converting rotary into reciprocatory motion. No. 1,386,329; Aug. 2; v. 289; p. 75.
Gomoll, Paul R., Oshkosh, Wis. Holder or exhibitor. No. 1,386,469; Aug. 2; v. 289; p. 99.
Goodfellow, Joseph. (See Chapman, Charles E., assignor.)
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodyear Tire & Rubber Company. (See Maranville, Alfet C. assignor.)
Gordon, John W., St. Catherines, Ontario, Canada. Pumping device. No. 1,386,330; Aug. 2; v. 289; p. 73.
Gove, Edgar A., assignor to F. C. Osmers, New York, N. Y. Stationery. No. 1,386,092; Aug. 2; v. 289; p. 6.
Gower, Walter, Tampa, Fla. Clipping device. No. 1,386,470; Aug. 2; v. 289; p. 99.
Graf, Fred, Lankershim, assignor of one-half to G. E. Wallace, Los Angeles, Calif. Gravity trolley-redder. No. 1,386,566; Aug. 2; v. 289; p. 117.
Grams, Louis A., Randolph, S. D. Tire-holder. No. 1,386,401; Aug. 2; v. 289; p. 86.
Gray, Christian H., London, England. Purification of india-rubber, gutta-percha, and the like. No. 1,386,065; Aug. 2; v. 289; p. 19.
Gray, Edward S., Piano, Ill., assignor, by mesne assignments, to Ivers-Lee Company, Newark, N. J. Machine for forming packages. No. 1,386,165; Aug. 2; v. 289; p. 29.
Greaves, Abilo M. De S., Cambridge, Mass. Temperature-alarm system for radiators of motor-vehicles. No. 1,386,452; Aug. 2; v. 289; p. 102.
Green, John K., New York, N. Y. Brick-anchored bolt. No. 1,386,402; Aug. 2; v. 289; p. 86.
Green, William T., Summit, N. J. Dentifrice. No. 1,386,283; Aug. 2; v. 289; p. 58.
Griffith, William J. (See Miller, L., and Griffith.)
Groff, Angus R., Birmingham, Ala. Auxiliary-spring attachment. No. 1,386,903; Aug. 2; v. 289; p. 6.
Groh, Robert C., assignor to Louis F. Dow Company, St. Paul, Minn. Device for removing paper closures from milk-bottles. No. 1,386,056; Aug. 2; v. 289; p. 19.
Groves, William L. (See De Vlieg, Joseph M., assignor.)
Grove, Edwin W. (See Carrier, Albert H., assignor.)
Graham, John G. W. (See Hindle, A. H., Savage, Dabbs, and Liddle, assignors.)
Grunwald, Albert C., Chicago, Ill., assignor to Precision Metal Workers. Oil-cup. No. 1,386,403; Aug. 2; v. 289; p. 86.
Guyot, Henri R., assignor to Société R. Guyot & Cie., Paris, France. Device for cooling the motors of aeroplanes or dirigible aircraft. No. 1,386,493; Aug. 2; v. 289; p. 103.
Hafstrom, John R., Morocco, Ind. Air-pump. No. 1,386,567; Aug. 2; v. 289; p. 118.
Halbritter, John, assignor to Walworth Manufacturing Company, Boston, Mass. Making metal plugs. No. 1,386,106; Aug. 2; v. 289; p. 29.
Hall, J. Robert. (See Tiller, D. M., Hall, Talbot, and Hazen.)
Hambly, Frederick P. (See Lellis, R. W., and Adams, assignors.)
Hamilton, Asbury, Brooklyn, N. Y. Holder for dishcloths, mops, or the like. No. 1,386,173; Aug. 2; v. 289; p. 42.
Hamilton, Lewis L., Detroit, Mich. Machine for forming finishing-moldings. No. 1,386,107; Aug. 2; v. 289; p. 29.
Hammermill Paper Company. (See Klund, Frederic P., assignor.)
Haney, Crandall R., Manson, Iowa. Cigarette-holder. No. 1,386,494; Aug. 2; v. 289; p. 103.
Harding, Roland, Groton, N. Y. Inkwell. No. 1,386,108; Aug. 2; v. 289; p. 29.
Harding, Simon J., West Baldwin, Me. Washing-machine. No. 1,386,495; Aug. 2; v. 289; p. 103.
Hargis, Lawrence H., Texarkana, Tex. Rotary fountain-brush. No. 1,386,568; Aug. 2; v. 289; p. 118.
Harris Automatic Press Company, The. (See Pritchard, Carl G., assignor.)
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Hasaler, Paul M., assignor to The Louden Machinery Company, Fairfield, Iowa. Brake for overhead carriers. No. 1,386,496; Aug. 2; v. 289; p. 103.
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Merton, Herbert. (See Bush, Harold D., assignor.)
Messer, George F., Aberdeen, Wash. Dirigible headlight. No. 1,386,014; Aug. 2; v. 289; p. 10.
Meyer, George J., Milwaukee, Wis. Safety attachment for elevators. No. 1,386,194; Aug. 2; v. 289; p. 46.
Miller, Chester D., Los Angeles, Calif. Auxiliary windshield. No. 1,386,418; Aug. 2; v. 289; p. 89.
Miller, Lewis, and W. J. Griffith, Glenmary, Tenn. Railway-gate. No. 1,386,581; Aug. 2; v. 289; p. 120.
Miller, Raymond, St. Louis, Mo. Stock-car partition. No. 1,386,419; Aug. 2; v. 289; p. 90.
Miller Saw-Trimmer Company. (See Smith, Walter H., assignor.)
Minnigan, Philip W., Dayton, Ohio. Adjustable scaffold. No. 1,386,195; Aug. 2; v. 289; p. 47.
Mitchell, George L. (See Glaudel, George, assignor.)
Mitchell, John B., London, England. Appliance for preparing iced beverages or for cooling liquids. No. 1,386,520; Aug. 2; v. 289; p. 109.
Modnicki, George, Toledo, Ohio. Fruit and vegetable cutter. No. 1,386,349; Aug. 2; v. 289; p. 77.
Montgomery, Dudley. (See Butsen, Thomas F., assignor.)
Montgomery, George M., Windsor Locks, and G. L. Mason, Warehouse Point, assignors to The J. R. Montgomery Co., Windsor Locks, Conn. Serving-spindle. No. 1,386,350; Aug. 2; v. 289; p. 77.
Montgomery, J. R., Co., The. (See Montgomery, G. M., and Mason, assignors.)
Montgomery, Keith, Jacksonville, Ill. Garment-hanger. No. 1,386,015; Aug. 2; v. 289; p. 10.
Moore, Edward, assignor of one-half to E. V. Galvin, Pana, Ill. Tire-chain. No. 1,386,522; Aug. 2; v. 289; p. 109.
Morse Chain Company. (See Morse, Frank L., assignor.)
Morse, Frank L., assignor to Morse Chain Company, Ithaca, N. Y. Sprocket gear-wheel. No. 1,386,272; Aug. 2; v. 289; p. 62.
Morris, Hurd T., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. System of control. No. 1,386,016; Aug. 2; v. 289; p. 11.
Morris, William L., Chicago, Ill., assignor to The Booth Electric Furnace Co. Electrode-adjusting mechanism. No. 1,386,017; Aug. 2; v. 289; p. 11.
Mortensen, Hans, Sr., Penrose, Colo. Water-power system. No. 1,386,069; Aug. 2; v. 289; p. 22.
Moss, Roscoe. (See Anderson, Leonard A., assignor.)
Müller, Max, Finkenwalde, near Stettin, Germany. Manufacture of artificial threads, ribbons, films, or plates from viscose. No. 1,386,521; Aug. 2; v. 289; p. 109.
Munn, Neil D., Dresden, Ontario, Canada. Door-checking device. No. 1,386,196; Aug. 2; v. 289; p. 47.

Murlin, John R., and W. P. Garrety, U. S. Army. Apparatus for determining proportions in compounds and mixtures. No. 1,386,420; Aug. 2; v. 289; p. 90.
Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Car-motor mounting. No. 1,386,586; Aug. 2; v. 289; p. 121.
Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Motor-casing-truck construction. No. 1,386,587; Aug. 2; v. 289; p. 121.
Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Single-motor bolster. No. 1,386,588; Aug. 2; v. 289; p. 122.
Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Resiliently-mounted transmission. No. 1,386,589; Aug. 2; v. 289; p. 122.
National Blank Book Company. (See Schade, John.)
National Binding Machine Company. (See Flora, Ellsworth E., assignor.)
National Dump Car Company. (See Hindahl, David, assignor.)
Nelson, Anthony. (See Leitch, John H., assignor.) (Reissue.)
Nelson, William, Wolcott, N. Y. Kicking-boot. No. 1,386,523; Aug. 2; v. 289; p. 109.
Newton, William J., Lynbrook, assignor, by mesne assignments, to J. G. Livingston, Woodmere, N. Y. Switch or receptacle box. No. 1,386,421; Aug. 2; v. 289; p. 90.
Neuland, Alfons H., San Francisco, Calif. Power-transmission apparatus. No. 1,386,524; Aug. 2; v. 289; p. 109.
Nielsen, Elmer C., Rawlins, Wyo. Watch winding attachment. No. 1,386,351; Aug. 2; v. 289; p. 77.
Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)
Norberg, Jonas. Latouche, Alaska. Concentrate-drier. No. 1,386,352; Aug. 2; v. 289; p. 77.
Norton, Edward P., Oakland, Calif. Safety-razor. No. 1,386,353; Aug. 2; v. 289; p. 77.
Nutter, Theodore V., Seattle, Wash. Portable hand-windlass. No. 1,386,582; Aug. 2; v. 289; p. 120.
Oca-Balda, José A., and G. A. De Langle, New York, N. Y. Electric iron. No. 1,386,525; Aug. 2; v. 289; p. 109.
O'Grady, Gerald D. (See Stonge, Harvey E., assignor.)
Oil Gas Producer Company, The. (See West, E. A., and Parsons, assignor.)
Olson, Joseph. (See Carlson, Victor R., assignor.)
Olson, Thomas W., and A. Iverson, Osage, Iowa. Chain-connector. No. 1,386,273; Aug. 2; v. 289; p. 62.
Opposed Piston Oil Engine Co. (See Junkers, Hugo, assignor.)
Ortgies, Heinrich, Erfurt, Germany. Self-loading pistol. No. 1,386,197; Aug. 2; v. 289; p. 47.
Osmers, Frank C. (See Gove, Edgar A., assignor.)
Other, William F., St. Louis, Mo. Combined license-plate and tail-light. No. 1,386,018; Aug. 2; v. 289; p. 11.
Ottinger, Leon, New York, N. Y. Latch. No. 1,386,422; Aug. 2; v. 289; p. 90.
Owen, Edward W., New York, N. Y. Pencil attachment. No. 1,386,526; Aug. 2; v. 289; p. 110.
Owen, Joseph G., Brighton, England. Motor-vehicle. No. 1,386,354; Aug. 2; v. 289; p. 77.
Packard Motor Car Company. (See Lynn, George F., assignor.)
Palmer, Lyndon C., Buffalo, N. Y., assignor to F. N. Burt Company, Limited, Toronto, Ontario, Canada. Paper feeding and cutting mechanism. No. 1,386,019; Aug. 2; v. 289; p. 11.
Parker, Clarence L., Los Angeles, Calif. Variable-pitch propeller for airplanes. No. 1,386,274; Aug. 2; v. 289; p. 62.
Parker, Harold. (See Gardner, C. R. P., and Parker.)
Parnall, George G. (See Bolas, Harold, assignor.)
Parret, Milton L., Marshalltown, Iowa. Intermittent-motion device. No. 1,386,355; Aug. 2; v. 289; p. 78.
Parret, Milton L., Marshalltown, Iowa. Moving-picture-machine shutter. No. 1,386,198; Aug. 2; v. 289; p. 47.
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Pasik, William E., De Kalb, Ill. Electric heater. No. 1,386,356; Aug. 2; v. 289; p. 78.
Patent Products Company. (See Schwimmer, Oscar, assignor.)
Paterson, John, Jr., Edinburg, N. D. Hoisting-hook. No. 1,386,583; Aug. 2; v. 289; p. 121.
Patton, Ellen M., Cincinnati, Ohio. Turned shoe, and making the same. No. 1,386,357; Aug. 2; v. 289; p. 78.
Paulson, Amel L., McCook, Nebr. Lock. No. 1,386,358; Aug. 2; v. 289; p. 78.
Payne, Harry H., assignor of two-thirds to J. White, Birmingham, England. Ejector mechanism for drop-down guns. No. 1,386,275; Aug. 2; v. 289; p. 62.
Payne, Robert W., Drakes Branch, Va. Harrow. No. 1,386,584; Aug. 2; v. 289; p. 121.
Penniman, William B. D., Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass. Making dry yeast. No. 1,386,359; Aug. 2; v. 289; p. 78.
Penniman, William B. D., Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass. Making dry yeast. No. 1,386,360; Aug. 2; v. 289; p. 78.
Penniman, William B. D., Baltimore, Md., assignor, by mesne assignments, to Whitney Yeast Corporation, Boston, Mass. Making dry yeast. No. 1,386,361; Aug. 2; v. 289; p. 78.
Perkins, George G., Lynn, Mass. Machine and method for rolling conical tips on lacings. No. 1,386,070; Aug. 2; v. 289; p. 22.
Perkins, Harry F., assignor to Rosanoff Process Company, Pittsburgh, Pa. Fractionating apparatus. No. 1,386,020; Aug. 2; v. 289; p. 12.
Perovich, Rade N., Washoe, Mont. Clothes-drying apparatus. No. 1,386,199; Aug. 2; v. 289; p. 47.
Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Molded article in laminated form and making the same. No. 1,386,276; Aug. 2; v. 289; p. 63.
Perry, Ray P., Upper Montclair, N. J., assignor to The Barrett Company. Building-felt or construction material. No. 1,386,277; Aug. 2; v. 289; p. 63.
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Phelan, Joseph W. (See Tuttle, J. N., and Phelan.)
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Pickering, Samuel, Bellevue, Wash. Driving mechanism for locomotives. No. 1,386,528; Aug. 2; v. 289; p. 110.
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Piron, Emile, New York, N. Y. Recovering ammonium chlorid. No. 1,386,278; Aug. 2; v. 289; p. 63.
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Pittman, Reinhart W., New York, N. Y. Tripod for cameras. No. 1,386,025; Aug. 2; v. 289; p. 13.
Pokorny, James T., Paris, assignor of one-half to A. T. Eddingston, Port Arthur, Tex. Brick-kiln construction. No. 1,386,530; Aug. 2; v. 289; p. 110.
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Posavac, Stjepan, Chicago, Ill. Reversible plow. No. 1,386,363; Aug. 2; v. 289; p. 79.
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Peterson, Tron O., assignor to U. S. Expansion Bolt Co., New York, N. Y. Attaching device. No. 1,386,202; Aug. 2; v. 289; p. 48.
Peters, Heber C., New York, N. Y., assignor to Peters-Morse Manufacturing Corporation. Adding-machine. No. 1,386,021; Aug. 2; v. 289; p. 12.
Peters, Heber C., New York, N. Y., assignor to Peters-Morse Manufacturing Corporation. Adding-machine. No. 1,386,022; Aug. 2; v. 289; p. 12.
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Pratt, Alphonso C., Deep River, Conn. Bead-cable for automobile-tires. No. 1,386,072; Aug. 2; v. 289; p. 22.
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Preston, Neil D., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Signaling system for single-track railways. No. 1,386,073; Aug. 2; v. 289; p. 22.
Pribil, Alexis R., Cleveland, Ohio, assignor to Westinghouse Electric & Manufacturing Company. Sheet-metal gear-case. No. 1,386,026; Aug. 2; v. 289; p. 13.
Pritchard, Carl G., Warren, assignor to The Harris Automatic Press Company, Cleveland, Ohio. File-delivery governor. No. 1,386,364; Aug. 2; v. 289; p. 791.
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Pulverman, Isidore, Warren, Pa. Tire valve and gage. No. 1,386,074; Aug. 2; v. 289; p. 23.
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Rand, James H., Jr., Tonawanda, N. Y. Index. No. 1,386,203; Aug. 2; v. 289; p. 48.
Rapson, Hobart D., Philadelphia, Pa. Collapsible toy house. No. 1,386,423; Aug. 2; v. 289; p. 90.
Regan, Ray D., Susquehanna, Pa. Crosshead. No. 1,386,532; Aug. 2; v. 289; p. 111.
Reilly, Edgar J., assignor to The William B. Pollock Company, Youngstown, Ohio. Liquid-metal-transfer apparatus. No. 1,386,075; Aug. 2; v. 289; p. 23.
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Remington Typewriter Company. (See Holden, Joseph B., assignor.)
Rendtorff, Walter, Maywood, Ill. Land and water toy. No. 1,386,425; Aug. 2; v. 289; p. 91.

Reynolds, Robert V. R., Washington, D. C. Mounting for telescope gun-sights. No. 1,386,027; Aug. 2; v. 289; p. 13.

Richards, George, L. N. Burt, Westminster, London, and J. E. Freeborn, Walthamstown, assignors to The Richards Thread Milling Machine Company, (1918) Limited, Westminster, London, England. Milling screw-threads. No. 1,386,279; Aug. 2; v. 289; p. 63.

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Richards, William H., Knoxville, Tenn. Pneumatic tire. No. 1,386,204; Aug. 2; v. 289; p. 48.

Riddle, James M., Alamogordo, N. Mex. Rail-lubricator nozzle. No. 1,386,426; Aug. 2; v. 289; p. 91.

Roberts, John A., Rolfe, Iowa. Adjustable wrench-pliers. No. 1,386,365; Aug. 2; v. 289; p. 79.

Robertson, John D., assignor to Winchester Repeating Arms Co., New Haven, Conn. Fishing-reel. No. 1,386,366; Aug. 2; v. 289; p. 79.

Rochester Railway & Light Company. (See Burch, W. S., and Schell, assignors.)

Rodemeyer, Henry F., assignor to Sterling Manufacturing Company, Sterling, Ill. Soil-pulverizer. No. 1,386,132; Aug. 2; v. 289; p. 34.

Roe, Charles O., Indianapolis, Ind., assignor to Roe Metal Sandal Company, Milwaukee, Wis. Sandal. No. 1,386,028; Aug. 2; v. 289; p. 14.

Roe Metal Sandal Company. (See Roe, Charles O., assignor.)

Rogers, Stewart A., Buenos Aires, Argentina. Traction system for cable-railways. No. 1,386,533; Aug. 2; v. 289; p. 111.

Rogers, Stewart A., Buenos Aires, Argentina. Traction system for cable-railways. No. 1,386,534; Aug. 2; v. 289; p. 111.

Rome Iron Mills. (See Jenkins, Weston, assignor.)

Rondelli, Tito, Turin, and Q. Sestini, Bergamo, Italy, assignors of one-third to Sestron (Foreign Patents) Limited, London, England. Oxidation and coloration of ferrous surfaces. No. 1,386,076; Aug. 2; v. 289; p. 23.

Rosanoff Process Company. (See Perkins, Harry F., assignor.)

Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,386,029; Aug. 2; v. 289; p. 14.

Rossiter, George A., Brooklyn, assignor to The Carrie Gyroscopic Corporation, New York, N. Y. Gyroscopic compass. No. 1,386,030; Aug. 2; v. 289; p. 14.

Rothe, Fred E., Chicago, Ill. Check-protector. No. 1,386,535; Aug. 2; v. 289; p. 111.

Rowley, Joseph P., and J. W. Schoellner, Newark, N. J. Jewelry. No. 1,386,133; Aug. 2; v. 289; p. 34.

Rudigier, Edward A., Bayonne, N. J., assignor to Standard Oil Company. Distillation of oil. No. 1,386,077; Aug. 2; v. 289; p. 23.

Rugg, Walter S. (See Murray, H. J., and Rugg.)

Runge, Gustave, Cleveland, Ohio. Printer's inking-roller. No. 1,386,427; Aug. 2; v. 289; p. 91.

Ryan, Arthur F. (See Wellington, A. W., and Ryan.)

Ryerson, Joseph T., & Son. (See Case, G. Harry, assignor.)

Rysiek, Casimir, Chicago, Ill. Tablecloth-stretcher. No. 1,386,205; Aug. 2; v. 289; p. 49.

Samuelson, Otto L., Chicago, Ill. Exercising apparatus. No. 1,386,206; Aug. 2; v. 289; p. 49.

Sanborn, John A. (See Hite, Fred A., assignor.)

Sanitary Beverage Mixer Co. (See Schneider, Frank G., assignor.)

Savage, Stanley W. (See Hindle, A. H., Savage, Dobbs, and Liddle.)

Schadee, Gustav, assignor, by mesne assignments, of two-thirds to E. G. Gallagher and one-third to A. Schadee, New York, N. Y. Vehicle-wheel. (Reissue.) No. 15,171; Aug. 2; v. 289; p. 123.

Schade, John, assignor to National Blank Book Company, Holyoke, Mass. Loose-leaf binder. No. 1,386,423; Aug. 2; v. 289; p. 91.

Schadee, Alice, *et al.* (See Schadee, Gustav, assignor.) (Reissue.)

Schaffner, Joseph F. C., Paris, France. Device for securing hoops on casks, barrels, tubs, and other receptacles. No. 1,386,430; Aug. 2; v. 289; p. 92.

Schanck, Charles E. (See Flitcroft, James E., assignor.)

Schell, William A. (See Burch, W. S., and Schell.)

Schenk, John C., Chicago, Ill. Tire-lock. No. 1,386,367; Aug. 2; v. 289; p. 79.

Schenk, Nicholas, St. Louis, Mo. Demountable wheel-rim. No. 1,386,368; Aug. 2; v. 289; p. 80.

Schmid, Herman. (See Fuegel, G., and Schmid.)

Schmidt, William C., Philadelphia, Pa. Neckwear. No. 1,386,429; Aug. 2; v. 289; p. 91.

Schneider, Frank G., assignor to Sanitary Beverage Mixer Co., Inc., New York, N. Y. Beverage-mixer. No. 1,386,280; Aug. 2; v. 289; p. 63.

Schoellner, John W. (See Rowley, J. P., and Schoellner.)

Scott, Charles S. (See Gettle, H. R., and Scott.)

Schulz, Jacques G., Paris, France. Driving-wheel for machines moving over soft ground. No. 1,386,281; Aug. 2; v. 289; p. 63.

Schulze, Richard E., Shelbyville, Ind. Egg-holder. No. 1,386,078; Aug. 2; v. 289; p. 23.

Schwarze, William, Philadelphia, Pa., assignor to R. H. Wyner, Boston, Mass. Spring-needle knitting-machine. No. 1,386,431; Aug. 2; v. 289; p. 92.

Schwimmer, Oscar, assignor to Patent Products Company, Los Angeles, Calif. Towel-machine. No. 1,386,369; Aug. 2; v. 289; p. 80.

Schwimmer, Oscar, Los Angeles, Calif. Gas-shut-off control for water-heaters. No. 1,386,370; Aug. 2; v. 289; p. 80.

Service Caster & Truck Company, The. (See Chesnutt, John L., assignor.)

Sestini, Quirino. (See Rondelli, T., and Sestini.)

Sestron (Foreign Patents) Limited. (See Rondelli, T., and Sestini, assignors.)

Seyl, Hubert H., Chicago, Ill. Method of and means for treating the hair. No. 1,386,134; Aug. 2; v. 289; p. 34.

Shaffer, Patrick H., Richwood, W. Va. Swivel-connector. No. 1,386,135; Aug. 2; v. 289; p. 35.

Shattock, Clifford, Detroit, Mich. Valve-grinding composition. No. 1,386,432; Aug. 2; v. 289; p. 92.

Shaw, William B., Eaton, Colo. Combination-wrench. No. 1,386,433; Aug. 2; v. 289; p. 92.

Shepard, Charles, Boston, Mass. Hair-waver. No. 1,386,371; Aug. 2; v. 289; p. 80.

Shields, Herbert F. H., Welling, assignor of one-half to The British Ropeway Engineering Company, Limited, London, England. Aerial ropeway on the single-rope system and the like. No. 1,386,282; Aug. 2; v. 289; p. 64.

Shields, John W., Springfield, Mass. Printers' galley. No. 1,386,079; Aug. 2; v. 289; p. 24.

Shonnard, Harold W. (See Weeks, William W., assignor.)

Shrader, Orville W., Bear, Ala. Bee-smoker. No. 1,386,283; Aug. 2; v. 289; p. 64.

Sibbald, George, Denver, Colo. Cant-slip wrench. No. 1,386,136; Aug. 2; v. 289; p. 35.

Silsbee, Joseph L., Salt Lake City, Utah. Producing potassium sulfate and aluminum oxid from alunite or similar material. No. 1,386,031; Aug. 2; v. 289; p. 14.

Silver, Joseph A., New York, N. Y. Railway-rail fastening. No. 1,386,536; Aug. 2; v. 289; p. 112.

Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control apparatus. No. 1,386,032; Aug. 2; v. 289; p. 14.

Simmons, Ralph C., Beverly, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine. No. 1,386,080; Aug. 2; v. 289; p. 24.

Simon, Leopold, New York, N. Y. Window-screen. No. 1,386,033; Aug. 2; v. 289; p. 15.

Simpson, Hobart A. (See Stockdale, F. B., and Simpson.)

Singer, George P., and R. J. Hickman, assignors to Chain Belt Company, Milwaukee, Wis. Machine for inserting pins into hollow articles. No. 1,386,372; Aug. 2; v. 289; p. 80.

Singer Manufacturing Company, The. (See Becker, Rudolph, assignor.)

Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)

Sissel, John H., Masonville, Iowa. Popcorn-husking device. No. 1,386,207; Aug. 2; v. 289; p. 49.

Skeen, Samuel T., Sandoval, assignor of one-half to C. E. Stead, Centralia, Ill. Miner's drill. No. 1,386,434; Aug. 2; v. 287; p. 92.

Smith, A. O., Corporation. (See Ziska, Adam, Jr., assignor.)

Smith, Emerson H., Parsons, Kans. Train-order holder. No. 1,386,435; Aug. 2; v. 289; p. 92.

Smith, Harry B., Brooklyn, N. Y. Making covered paper boxes. No. 1,386,373; Aug. 2; v. 289; p. 81.

Smith, Harry B., Brooklyn, N. Y. Making boxes. No. 1,386,374; Aug. 2; v. 289; p. 81.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Ledger-sheet. No. 1,386,375; Aug. 2; v. 289; p. 81.

Smith, Walter, Chicago, Ill. Closure-lifter. No. 1,386,208; Aug. 2; v. 289; p. 49.

Smith, Walter H., Pittsburgh, Pa., assignor to Miller Saw-Trimmer Company. Cord-retaining means. No. 1,386,537; Aug. 2; v. 289; p. 112.

Smith, William C., assignor to The L. D. Caulk Co., Milford, Del. Dental pliers. No. 1,386,436; Aug. 2; v. 289; p. 93.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive. No. 1,386,438; Aug. 2; v. 289; p. 93.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Explosive. No. 1,386,440; Aug. 2; v. 289; p. 93.

Snelling, Walter O., Allentown, Pa., assignor, by mesne assignments, to Trojan Powder Company, New York, N. Y. Nitrostarch explosive. No. 1,386,437; Aug. 2; v. 289; p. 93.

Snelling, Walter O., Allentown, Pa., assignor to Trojan Powder Company, New York, N. Y. Treating undried organic nitrates and the like. No. 1,386,439; Aug. 2; v. 289; p. 93.

Snyder, Charles W., Los Angeles, Calif. Vaporizing apparatus. No. 1,386,376; Aug. 2; v. 289; p. 81.

Snyder, William H., Ashbourne, Pa. Anti-skidding device for vehicle-wheels. No. 1,386,377; Aug. 2; v. 289; p. 81.

Société R. Guyot & Cie. (See Guyot, Henri R., assignor.)

Sparks, John R., Haven, Va. Coal-car-check holder. No. 1,386,378; Aug. 2; v. 289; p. 81.

Spinasse, Arthur E., Mount Vernon, Ohio. Apparatus for drawing glass cylinders. No. 1,386,441; Aug. 2; v. 289; p. 93.

Spoelstra, Peter H., Pella, Iowa. Automobile chain and lock. No. 1,386,442; Aug. 2; v. 289; p. 93.

Squire, Charles, Deans, N. J. Snow-removal apparatus. No. 1,386,137; Aug. 2; v. 289; p. 35.

Standard Oil Company. (See Rudigier, Edward A., assignor.)

Stanfield, Joseph R. M., Cardiff, Wales. Magneto-starter. No. 1,386,081; Aug. 2; v. 289; p. 24.

Stead, Charles E. (See Skeen, Samuel T., assignor.)

Steele, Archie W., Bloomfield, assignor to W. J. Hawkins, Montclair, N. J. Electric fuse. No. 1,386,138; Aug. 2; v. 289; p. 35.

Steele, Edwin G. (See Sutton, H. M., and W. L., and E. G. Steele.)

Steele, Walter L. (See Sutton, H. M., and W. L. and E. G. Steele.)

Steere Engineering Company. (See Steere, Frank W., assignor.)

Steere, Frank W., assignor to Steere Engineering Company, Detroit, Mich. Purifier reverse-flow mechanism. No. 1,386,443; Aug. 2; v. 289; p. 94.

Steinhart, Hermann, assignor to Firm of Robert Bosch Aktiengesellschaft, Stuttgart, Germany. Electric starting-motor. No. 1,386,285; Aug. 2; v. 289; p. 64.

Stephens, Edward A., Los Angeles, Calif. Concrete sash-weight. No. 1,386,538; Aug. 2; v. 289; p. 112.

Sterling Iron Works. (See Archer, Alfred W., assignor.)

Sterling Iron Works. (See Barnickel, W. F., and Archer, assignors.)

Sterling Manufacturing Company. (See Rodemeyer, Henry F., assignor.)

Stibbe, Godfrey, Leicester, England. Knitted fabric and producing the same. No. 1,386,444; Aug. 2; v. 289; p. 94.

Stickney, Burnham C., Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,386,379; Aug. 2; v. 289; p. 62.

Stillesen, Job M. A., Niagara Falls, N. Y. Lime-nitrogen process and product. No. 1,386,445; Aug. 2; v. 289; p. 94.

Stockdale, Fairbank B., Brooklyn, N. Y., and H. A. Simpson, Ocean Grove, N. J. Self-starter. No. 1,386,139; Aug. 2; v. 289; p. 35.

Stokes and Smith Company. (See Weightman, W. A., and Nitsch, assignors.)

Stonge, Harvey E., assignor to G. D. O'Grady, Toronto, Ontario, Canada. Necktie-form. No. 1,386,140; Aug. 2; v. 289; p. 36.

Strauss, Mortimer I., Cleveland, Ohio. Coating composition and making the same. No. 1,386,380; Aug. 2; v. 289; p. 82.

Striegel, Henry, Wilder, Kans. Soil-pulverizer. No. 1,386,286; Aug. 2; v. 289; p. 64.

Strock, Carl G., Santa Ana, Calif. Dust-collector for lathes, &c. No. 1,386,539; Aug. 2; v. 289; p. 112.

Stroud, Fred, assignor of one-half to H. G. Ansell, Omaha, Nebr. Amusement device. No. 1,386,209; Aug. 2; v. 289; p. 49.

Sullivan, William T., Cincinnati, Ohio. Metal-stamping machine. No. 1,386,540; Aug. 2; v. 289; p. 112.

Summit Thread Company. (See Weaver, Lucius E., assignor.)

Superior Refining Process Co. (See Gilchrist, Vincent T., assignor.)

Sutton, Henry M., W. L. Steele, and E. G. Steele, Dallas, Tex. Apparatus for separating substances of different dielectric capacities. No. 1,386,287; Aug. 2; v. 289; p. 64.

Swenson, Frank O., Austin, Tex. Door attachment. No. 1,386,541; Aug. 2; v. 289; p. 112.

Taggard, George H., Walla Walla, Wash. Cooling-jacket for internal-combustion engines. No. 1,386,381; Aug. 2; v. 289; p. 82.

Talbot, C. Burckhart. (See Tiller, D. M., Hall, Talbot, and Hasen.)

Talley, Charles H., Aurora, Ill. Awning-fixture. No. 1,386,446; Aug. 2; v. 289; p. 94.

Tausch, Steven, Spokane, Wash. Weeding implement. No. 1,386,141; Aug. 2; v. 289; p. 36.

Taylor, Burt E., Mount Vernon, assignor to The Borden Company, New York, N. Y. Apparatus for treating and canning milk. (Reissue.) No. 15,172; Aug. 2; v. 289; p. 123.

Taylor, Harold B., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical measuring instrument. No. 1,386,034; Aug. 2; v. 289; p. 15.

Taylor, James H., Owensboro, Ky. Dental surgical instrument. No. 1,386,288; Aug. 2; v. 289; p. 65.

Taylor, James H., Owensboro, Ky. Dental surgical instrument. No. 1,386,289; Aug. 2; v. 289; p. 65.

Thiery, Michael, Cincinnati, Ohio. Oven-door. No. 1,386,542; Aug. 2; v. 289; p. 113.

Thomas, Avery H., Houston, Tex. Tool-joint. No. 1,386,210; Aug. 2; v. 289; p. 50.

Thomas, Harry J. (See Thomas, William E. and H. J.)

Thomas, Peter J., Sapulpa, Okla. Cotton sack. No. 1,386,447; Aug. 2; v. 289; p. 94.

Thomas, William E. and H. J., Florence, S. C. Hydrocarbon-burner. No. 1,386,448; Aug. 2; v. 289; p. 94.

Thompson, Joseph S., Mill Valley, Calif. Latch. No. 1,386,382; Aug. 2; v. 289; p. 82.

Thomson, William P., Forest Hills, assignor to The Rail Joint Company, New York, N. Y. Safety-indicator for railway-tracks. No. 1,386,290; Aug. 2; v. 289; p. 65.

Tiefel, Charles G., Fairport, assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,386,383; Aug. 2; v. 289; p. 82.

Tierney, Stephen J. (See McGowan, W. W., Heller, and Tierney.)

Tiller, David M., assignor of one-eighth to J. R. Hall, one-eighth to C. B. Talbot, and one-eighth to S. P. Hasen, Broken Arrow, Okla. Locking device for motor-vehicles. No. 1,386,543; Aug. 2; v. 289; p. 113.

Tiranty, Philippe H. L., and J. T. F. Conti, Paris, France. Stamping apparatus. No. 1,386,142; Aug. 2; v. 289; p. 36.

Todd Protectograph Company. (See Tiefel, Charles G., assignor.)

Tolhurst Machine Works. (See Bryson, Tandy A., assignor.)

Tompkins, Albert E., Hants, England. Steam-drier. No. 1,386,211; Aug. 2; v. 289; p. 50.

Torossian, Gregory, Cleveland, Ohio, assignor of one-third to N. C. Cotabish and one-third to W. J. Higgins. Carbon-remover. No. 1,386,385; Aug. 2; v. 289; p. 83.

Townsend, John S., assignor to Whiting Corporation, Harvey, Ill. Sand-throwing machine. No. 1,386,212; Aug. 2; v. 289; p. 50.

Trafton, Edwin B., Leavenworth, Kans. Motor-vehicle wheel. No. 1,386,449; Aug. 2; v. 289; p. 95.

Trainor, Devaney C. E., assignor of one-third to J. A. Mackerrow and one-third to H. Claydon, Toronto, Ontario, Canada. Automobile control mechanism. No. 1,386,213; Aug. 2; v. 289; p. 50.

Trémaux, André. (See Jourdon, L., and Trémaux.)

Trilsch, Oscar, Co. (See Trilsch, Oscar W., assignor.)

Trilsch, Oscar W., assignor to Oscar Trilsch Co., Whitestone, N. Y. Covering paper or wooden boxes. No. 1,386,384; Aug. 2; v. 289; p. 82.

Trojan Powder Company. (See Snelling, Walter O., assignor.)

Trojan Powder Company. (See Waller, Charles E., assignor.

Tully, Richard W., Sierra Madre, Calif. Artificial hedge, lawn, and similar article. No. 1,386,450; Aug. 2; v. 289; p. 95.

Tupper, Russell E., Cochituate, Mass. Curtain-light. (Reissue.) No. 15,173; Aug. 2; v. 289; p. 123.

Turner & Seymour Manufacturing Company, The. (See Hills, Sidney C., assignor.)

Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,386,386; Aug. 2; v. 289; p. 83.

Tuttle, James N., Lynn, and J. W. Phelan, Medford, assignors to Kalmus, Comstock & Westcott, Inc., Boston, Mass. Refining cacao-oil. No. 1,386,471; Aug. 2; v. 289; p. 99.

U. S. Expansion Bolt Co. (See Peterson, Tron O., assignor.)

Ulrich, Charles B., Jamestown, N. Y. Transfer-file. No. 1,386,143; Aug. 2; v. 289; p. 36.

Underwood, James J. (See Langton, V. F., and Underwood.)

Underwood Typewriter Company. (See Barnard, Walter B., assignor.)

Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)

Underwood Typewriter Company. (See Stickney, Burnham C., assignor.)

Underwood Typewriting Company. (See Waldheim, John, assignor.)

United Shoe Machinery Corporation. (See Fowler, Alfred B., assignor.)

United Shoe Machinery Corporation. (See Simmons, Ralph C., assignor.)

United States of America. (See Davis, A. L., and Jacob, assignors.)

Universal Milking Machine Company. (See Eklundh, John G. G., assignor.)

Urquhart, Charles H., Newark, N. J. Preparing fuel. No. 1,386,472; Aug. 2; v. 289; p. 99.

Urquhart, Charles H., Newark, N. J. Fuel. No. 1,386,473; Aug. 2; v. 289; p. 99.

Van Blarcom, James Y., Paterson, N. J. Shutter-fastener. No. 1,386,291; Aug. 2; v. 289; p. 65.

Van Dorn Iron Works Company, The. (See Barker, Percy E., assignor.)

Van Horn, Vandiver J., Chicago, Ill. Lubricant-testing machine. No. 1,386,214; Aug. 2; v. 289; p. 51.

Vatter, Henry, Jr., Shreveport, La. Motor-bearing-burning-in stand. No. 1,386,035; Aug. 2; v. 289; p. 15.

Vicars, Edward L. (See Vicars, Thomas and E. L.)

Vicars, Thomas and E. L., Earlstown, England. Web-tightening mechanism. No. 1,386,529; Aug. 2; v. 289; p. 110

Vickers Limited. (See Dawson, A. T., and Buckham, assignors.)

Vicongne, Auguste. See de Grousseau, E., and Vicongne.)

Vince, Joseph, Brooklyn, N. Y. Flashlight. No. 1,386,474; Aug. 2; v. 289; p. 99.

Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriting Company, New York, N. Y. Typewriting-machine. No. 1,386,387; Aug. 2; v. 289; p. 83.

Wall, Arthur W., Sheldon, near Birmingham, England. Engine-piston and connecting-rod. No. 1,386,144; Aug. 2; v. 289; p. 36.

Wall, Arthur W., Sheldon, near Birmingham, England. Magneto-driving arrangement for internal-combustion engines. No. 1,386,145; Aug. 2; v. 289; p. 37.

Wall, Edward J., Cambridge, assignor to Kalmus, Comstock & Westcott, Inc., Boston, Mass. Refining cacao-oil. No. 1,386,476; Aug. 2; v. 289; p. 100.

Wall, Edward J., Cambridge, and J. W. Phelan, Medford, assignors to Kalmus, Comstock & Westcott, Inc., Boston, Mass. Margarin and making the same. No. 1,386,475; Aug. 2; v. 289; p. 100.

Wall, Edward J. (See Phelan, J. W., and Wall.)

Wallace, Edward, Cleveland, Ohio. Valve for internal-combustion and fluid-pressure engines. No. 1,386,477; Aug. 2; v. 289; p. 100.

Wallace, George E. (See Graf, Fred, assignor.)

Waller, Charles E., Allentown, Pa., assignor, by mesne assignments, to Trojan Powder Company, New York, N. Y. Nitrostarch explosive. No. 1,386,478; Aug. 2; v. 289; p. 100.

Walworth, Arthur C., Jr. (See Kirmes, Edwin W., and Walworth.)

Walworth Manufacturing Company. (See Halbutter, John, assignor.)

Ward, Albert M., Rochester, N. Y. Check-writing machine. No. 1,386,479; Aug. 2; v. 289; p. 100.

Weaver, Lucius E., assignor to Summit Thread Company, East Hampton, Conn. Sewing-machine shuttle. No. 1,386,146; Aug. 2; v. 289; p. 37.

Weeks, William W., Brooklyn, N. Y., assignor of one-half to H. W. Shonnard, Upper Montclair, N. J. Carbureter. No. 1,386,036; Aug. 2; v. 289; p. 15.

Weighing Machine Manufacturing Company. (See Zanone, Richard J., assignor.)

Weightman, William A., and C. H. Nitsch, assignor to Stokes and Smith Company, Philadelphia, Pa. Corner cutting and bending machine. No. 1,386,292; Aug. 2; v. 289; p. 65.

Weiss, George C., Oakland, Calif. Machine element. No. 1,386,037; Aug. 2; v. 289; p. 15.

Wellington, Arthur W., and A. F. Ryan, San Jose, Calif. Centrifugal pump. No. 1,386,293; Aug. 2; v. 289; p. 65.

Wensafler, Max, assignor of one-half to A. L. Maas, Sheboygan, Wis. Washboiler-protector. No. 1,386,147; Aug. 2; v. 289; p. 37.

Wents, George F., Lakewood, Ohio. Hot-air furnace. No. 1,386,294; Aug. 2; v. 289; p. 66.

Wenzel, Max, Kansas City, Mo. Clothes-tongs. No. 1,386,295; Aug. 2; v. 289; p. 66.

Wessa, Laura M., Middleport, Ohio. Hair-dressing device. No. 1,386,296; Aug. 2; v. 289; p. 66.

West, Edward A., West Park, and E. E. Parsons, assignors to The Oil Gas Producer Company, Cleveland, Ohio. Oil-gas producer. No. 1,386,038; Aug. 2; v. 289; p. 16.

Westfehling, Willi, Lubeck, Germany. Holder for hanging articles. No. 1,386,480; Aug. 2; v. 289; p. 100.

Westinghouse Air Brake Company, The. (See Brown, Thomas R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)

Westinghouse Electric & Manufacturing Company. (See Allcutt, Chester P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Brown, James M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Conrad, Frank, assignor.)

Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Heilmund, Rudolf E., assignor.)

Westinghouse Electric and Manufacturing Company. (See Howard, David G., assignor.)

Westinghouse Electric and Manufacturing Company. (See James, Henry D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lawson, Charles S., assignor.)

Westinghouse Electric and Manufacturing Company. (See McCulloch, Leon, assignor.)

Westinghouse Electric and Manufacturing Company. (See Mahoney, J. N., and Austin, assignors.)

Westinghouse Electric and Manufacturing Company. (See Mahoney, J. N., and MacNeill, assignors.)

Westinghouse Electric and Manufacturing Company. (See Morris, Hurd T., assignor.)

Westinghouse Electric & Manufacturing Company. (See Pribil, Alexis B., assignor.)

Westinghouse Electric and Manufacturing Company. (See Simmon, Karl A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Taylor, Harold B., assignor.)

Westinghouse Electric & Manufacturing Company. (See Whittaker, Charles C., assignor.)

Westinghouse Electric and Manufacturing Company. (See Woodward, Walter R., assignor.)

Westinghouse Electric Products Company. (See Forshee, Frank F., assignor.)

White, Charles F., New York, N. Y. Pin-ticket. No. 1,386,481; Aug. 2; v. 289; p. 100.

White, John. (See Payne, Harry H., assignor.)

Whitehead & Hoag Company, The. (See Fehn, Frank J., assignor.)

Whiting Corporation. (See Townsend, John S., assignor.)

Whitney, Baxter D., & Son. (See Whitney, William M., assignor.)

Whitney, William M., assignor to Baxter D. Whitney & Son, Inc., Winchendon, Mass. Drum-saw machine. No. 1,386,082; Aug. 2; v. 289; p. 24.

Whitney Yeast Corporation. (See Penniman, William B. D., assignor.)

Whittaker, Charles C., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,386,039; Aug. 2; v. 289; p. 16.

Widmann, Eugene A., Brooklyn, N. Y. Cabinet for tympanum-phonographs. No. 1,386,040; Aug. 2; v. 289; p. 16.

Wilkin, Joseph A., Matamoras, Pa. Variable-speed-transmission apparatus. No. 1,386,388; Aug. 2; v. 289; p. 83.

Wilsey, Irven H., Chicago, Ill. Atomiser and vaporizer. No. 1,386,297; Aug. 2; v. 289; p. 66.

Wilson, Cora I. S., Albuquerque, N. Mex. Soap-bag and washrag. No. 1,386,041; Aug. 2; v. 289; p. 16.

Wilson, David H., Paterson, N. J., assignor to Wilson Welder & Metals Company Inc. Electric welding system. No. 1,386,215; Aug. 2; v. 289; p. 51.

Wilson, Ralph W., New York, N. Y. Shaker top or cap. No. 1,386,042; Aug. 2; v. 289; p. 16.

Wilson, Ralph W., New York, N. Y. Shaker top or cap. No. 1,386,043; Aug. 2; v. 289; p. 16.

Wilson, Ralph W., New York, N. Y. Shaker top or cap. No. 1,386,044; Aug. 2; v. 289; p. 17.

Wilson Welder & Metals Company. (See Wilson, David H., assignor.)

Wilson, Willliam G., and C. Hudak, Bridgeport, Conn. Vehicle-wheel. No. 1,386,389; Aug. 2; v. 289; p. 83.

Winchester Repeating Arms Co. (See Robertson, John D., assignor.)

Winslow, Hardin E., assignor of one-half to W. T. Winslow, Spokane, Wash. Grain-separator. No. 1,386,298; Aug. 2; v. 289; p. 66.

Winslow, Warren T. (See Winslow, Hardin E., assignor.)

Wolff, August L., Chicago, Ill. Internal-combustion engine. No. 1,386,544; Aug. 2; v. 289; p. 113.

Woodmansee, John F., Milwaukee, Wis. Title-record. No. 1,386,216; Aug. 2; v. 289; p. 51.

Woodward, Walter R., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrical regulator. No. 1,386,045; Aug. 2; v. 289; p. 17.

Worgan, Amos N. (See Worgan, Henry H., assignor.)

Worgan, Henry H., assignor of one-half to A. N. Worgan, Carnegie, Pa. Toy. No. 1,386,545; Aug. 2; v. 289; p. 113.

Wright, Bert R., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Means for excluding dirt and liquid from bearings and driving mechanism of centrifugal machines. No. 1,386,148; Aug. 2; v. 289; p. 37.

Wright, R. G., & Co. (See Wright, K. K., and Cundall, assignors.)

Wright, Kirk K., Buffalo, and R. N. Cundall, Blasdell, assignors to R. G. Wright & Co., Buffalo, N. Y. Bottle filling and closing machine. No. 1,386,299; Aug. 2; v. 289; p. 67.

Wüster, Robert, Dassel, Germany. Filtering apparatus. No. 1,386,340; Aug. 2; v. 289; p. 75.

Wyner, Rudolph H. (See Schwarze, William, assignor.)

Wyoming Thresher Company. (See Braddy, Clyde E., assignor.)

Xardell, Charles A., Utica, N. Y. Electric heater. No. 1,386,300; Aug. 2; v. 289; p. 67.

Yale & Towne Manufacturing Company, The. (See Lewis, Rollin C., assignor.)

Yount, Clarence B., Montgomery county, near Union, Ohio. Means for measuring liquids. No. 1,386,083; Aug. 2; v. 289; p. 24.

Youse, Robert L., assignor of one-half to A. Hendrick, Philadelphia, Pa. Train control. No. 1,386,482; Aug. 2; v. 289; p. 100.

Zanone, Richard J., New Albany, Ind., assignor to Weighing Machine Manufacturing Company, Louisville, Ky. Automatic scale. No. 1,386,546; Aug. 2; v. 289; p. 113.

Zilliox, John, Orchard Park, N. Y. Wrench. No. 1,386,217; Aug. 2; v. 289; p. 51.

Ziska, Adam, Jr., assignor, by mesne assignments, to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for cleaning metal sheets and plates. No. 1,386,547; Aug. 2; v. 289; p. 114.

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Ainsworth, Albert, Swarthmore, assignor to Becker, Smith & Page, Philadelphia, Pa. Embossed wall-paper. Nos. 58,527–9; Aug. 2; v. 289; pp. 123–4.

Anibal, Benjamin H., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Face-plate for combination indicating instruments for motor-driven vehicles. No. 58,530; Aug. 2; v. 289; p. 124.

Anibal, Benjamin H., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Face-plate for switch mechanism for motor-driven vehicles. No. 58,531; Aug. 2; v. 289; p. 124.

Anibal, Benjamin H., Highland Park, assignor to General Motors Corporation, Detroit, Mich. Instrument-board for motor-vehicles. No. 58,532; Aug. 2; v. 289; p. 124.

Angell, Alexander A., New York, N. Y. Surgical mirror. No. 58,533; Aug. 2; v. 289; p. 124.

Balda, Joseph O., Newark, Ohio, assignor to Central Glass Works, Wheeling, W. Va. Glass goblet or other similar article of manufacture. No. 58,534; Aug. 2; v. 289; p. 124.

Balogh, Endre, Newark, N. J. Envelop. No. 58,535; Aug. 2; v. 289; p. 125.

Bates, George E., Syracuse, N. Y. Direction-indicator for vehicles. No. 58,536; Aug. 2; v. 289; p. 125.

Beadle, George W., New Rochelle, N. Y., assignor to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Correction-indicator for a dictation-machine. No. 58,537; Aug. 2; v. 289; p. 125.

Becker, Matthew G., Chicago, Ill. Box-tray or article of similar nature. No. 58,538; Aug. 2; v. 289; p. 125.

Becker, Smith & Page. (See Ainsworth, Albert, assignor.)

Berard, Eddie L., North Bennington, Vt. Auto-coaster. No. 58,539; Aug. 2; v. 289; p. 126.

Blickman, Manuel, New York, N. Y. Sterilizer. No. 58,540; Aug. 2; v. 289; p. 126.

Bollinger, Frederick A., Akron, assignor to The Oldfield Tire Company, Cleveland, Ohio. Pneumatic tire. No. 58,541; Aug. 2; v. 289; p. 126.

Bowman, Charles H., Washington, D. C. Vehicle-body. No. 58,542; Aug. 2; v. 289; p. 126.

Browning, Reuben B. (See McUpson, Edgar C., assignor.)

Callahan, William J., Worcester, Mass. Combined lamp support and casing. No. 58,543; Aug. 2; v. 289; p. 126.

Carleton, Lucia J., Dorchester, Mass. Lady's sport-costume. No. 58,544; Aug. 2; v. 289; p. 126.

Central Glass Works. (See Balda, Joseph O., assignor.)

Chambers, George E. (See Wilson, Miles, assignor.)

Church, Howard A., Elkhart, Ind. Paneled stock-pot. No. 58,546; Aug. 2; v. 289; p. 127.

Clough, Lee E., Akron, assignor to The Mason Tire & Rubber Company, Kent, Ohio. Solid rubber tire. No. 58,547; Aug. 2; v. 289; p. 127.

Clyne, Robert G., and K. Rayburn, St. Louis, Mo. Washing-machine casing. No. 58,548; Aug. 2; v. 289; p. 127.

Columbia Graphophone Manufacturing Company. (See Beadle, George W., assignor.)

Craig, Joseph R., Loudonville, Ohio. Body for a baby-carriage. No. 58,549; Aug. 2; v. 289; p. 128.

Crecelius, Theodore E., assignor to Multiplex Display Fixture Company, St. Louis, Mo. Gum-package-dispensing receptacle or similar article. No. 58,545; Aug. 2; v. 289; p. 127.

Cusick, Mary B., New York, N. Y. Bank or similar article. No. 58,550; Aug. 2; v. 289; p. 128.

Dalton, Katherine C., Washington, D. C. Military cloak and skirt. No. 58,551; Aug. 2; v. 289; p. 128.

Davis, John A., Washington, D. C. Talking-machine. No. 58,552; Aug. 2; v. 289; p. 128.

Davis, John A., Washington, D. C. Turntable for talking-machines. No. 58,553; Aug. 2; v. 289; p. 128.

Dodson, Joseph H., Kankakee, Ill. Chair. No. 58,554; Aug. 2; v. 289; p. 129.

Dodson, Joseph H., Kankakee, Ill. Rocker. No. 58,555; Aug. 2; v. 289; p. 129.

Donnelly, William J., Butte, Mont. Linoleum. No. 58,556; Aug. 2; v. 289; p. 129.

Dudley, Clifford C., assignor to H. L. Judd Company, Wallingford, Conn. Rack. No. 58,557; Aug. 2; v. 289; p. 129.

Dunbar Tire and Rubber Company. (See Riley, James R., assignor.)

Elea Jewelry Co. (See Lapidus, Isidore H., assignor.)

Essex Rubber Company. (See Sanders, Walter E., assignor.)

Faultless Rubber Company, The. (See Kaupmann, Frederick, Jr., assignor.)

Fisher, Abraham C., New York, N. Y. Lady's handbag. No. 58,558; Aug. 2; v. 289; p. 129.

Fitzgerald, Joseph G., San Francisco, Calif. Lamp-stand. No. 58,559; Aug. 2; v. 289; p. 129.

Friedly-Voshardt Co. (See Wellman, Lester R., assignor.)

Funk, Oscar F., Lancaster, Pa. Sign. No. 58,561; Aug. 2; v. 289; p. 130.

Frost, Ralph I., assignor to The Geo. W. Brown & Son State Bank, trustee, Augusta, Kans. Casing for an electrical generator. No. 58,560; Aug. 2; v. 289; p. 130.

Geisman, Samuel, New York, N. Y. Cover. No. 58,562; Aug. 2; v. 289; p. 130.

General Motors Corporation. (See Anibal, Benjamin H., assignor.)

Geo. W. Brown & Son State Bank, trustee. (See Frost, Ralph I., assignor.)

Globe Rubber Tire Manufacturing Company. (See Kugler, Herbert W., assignor.)

Goldberg, Henry, Paterson, N. J. Talcum-powder can. No. 58,563; Aug. 2; v. 289; p. 130.

Gunnoe, Berta B., Beckley, W. Va. Brooch or the like. No. 58,564; Aug. 2; v. 289; p. 131.

Halladay, Lewis P., Decatur, Ill. Automobile bumper-bar. No. 58,565; Aug. 2; v. 289; p. 131.

Hawkes, William H., South Nyack, N. Y. Flatiron-holder. No. 58,566; Aug. 2; v. 289; p. 131.

Helde, Carl H., assignor to Perfeclite Manufacturing Company, Seattle, Wash. Suspended light-fixture. Nos. 58,567–8; Aug. 2; v. 289; p. 131.

Hermanson, Ole, Sun Prairie, Wis. Staple-puller. No. 58,569; Aug. 2; v. 289; p. 132.

Humphrey, Clen S., Brooklyn, N. Y. Powder-container. No. 58,570; Aug. 2; v. 289; p. 132.

Hyatt, Frank S., Brooklyn, N. Y. Cap for powder-container tops. No. 58,571; Aug. 2; v. 289; p. 132.

Jackson, Samuel S., Columbus, Ohio. Overcoat, ulster, or a sport sack-coat. No. 58,572; Aug. 2; v. 289; p. 132.

Joha, Elmer N., assignor to Reliable Knitting Works, Milwaukee, Wis. Knitted cap. No. 58,573; Aug. 2; v. 289; p. 132.

Judd, H. L., Company. (See Dudley, Clifford C., assignor.)

Kaupmann, Frederick, Jr., Brooklyn, N. Y., assignor to The Faultless Rubber Company, Ashland, Ohio. Doll. Nos. 58,574–5; Aug. 2; v. 289; p. 133.

Keil, Frank J., New York, N. Y. Trimming for wearing-apparel. Nos. 58,576–8; Aug. 2; v. 289; p. 133.

Keller, Isaac B., Philadelphia, Pa. Apron. No. 58,579; Aug. 2; v. 289; p. 133.

Klein, Max, assignor to Shapiro & Aronson, Inc., New York, N. Y. Arm for lighting-fixtures. No. 58,580; Aug. 2; v. 289; p. 134.

Kotato, Teiji, assignor to Morimura Bros., New York, N. Y. Plate or similar article. Nos. 58,581–600; Aug. 2; v. 289; pp. 134–7.

Kreisler, Jacques, New York, N. Y. Pronged setting for a jewel-mounting. No. 58,601; Aug. 2; v. 289; p. 137.

Kugler, Herbert W., Princeton, N. J., assignor to Globe Rubber Tire Manufacturing Company, New York, N. Y. Tire-tread. No. 58,602; Aug. 2; v. 289; p. 137.

Lapidus, Isidore H., assignor to Elea Jewelry Co., New York, N. Y. Jewelry—namely, a finger ring or article of similar nature. No. 58,603; Aug. 2; v. 289; p. 137.

Larocque, Eli E., Pawtucket, R. I. Time-indicator for use in laundries. No. 58,604; Aug. 2; v. 289; p. 138.

Livingston, Fremont P., Denver, Colo. Foot-scraper for automobiles. No. 58,605; Aug. 2; v. 289; p. 138.

Livingston, Fremont P., Denver, Colo. Foot-mat frame for automobiles. No. 58,606; Aug. 2; v. 289; p. 138.

Lucheesa, James M., Cambria, Calif. Jar. No. 58,607; Aug. 2; v. 289; p. 138.

Maddock Pottery Company. (See Schnepf, Emil L., assignor.)

Marston, Mary, Omaha, Nebr. Statuette, watch-fob, emblem, badge, radiator-cap, or an article of similar nature. No. 58,608; Aug. 2; v. 289; p. 138.

Mason Tire & Rubber Company, The. (See Clough, Lee E., assignor.)

Mayer, Joshua W., New York, N. Y. Gem-setting or similar article. No. 58,609; Aug. 2; v. 289; p. 138.

McCreary, Harry, Indiana, Pa. Non-skid tire. No. 58,610; Aug. 2; v. 289; p. 139.

McMullen, Charles. (See Muller, A. G., and McMullen.)

McUpson, Edgar C., Washington, D. C., assignor of one-half to R. B. Browning, Spartanburg, S. C. Badge. No. 58,611; Aug. 2; v. 289; p. 139.

Mellinger, Brainerd L., Kansas City, Mo. Automobile-tire. No. 58,612; Aug. 2; v. 289; p. 139.

Moeser, Otto E., assignor to The Wisconsin Chair Company, Port Washington, Wis. Study-chair. No. 58,613; Aug. 2; v. 289; p. 139.

Morimura Bros. (See Kotato, Teiji, assignor.)

Morrison, Ralph W., Omaha, Nebr. Cabinet for phonographs. No. 58,614; Aug. 2; v. 289; p. 139.

Morse, Waldo G., Yonkers, N. Y. Sound-box casing. No. 58,615; Aug. 2; v. 289; p. 140.

Muller, Alphons G., and C. McMullen, Flemington, N. J. Lens. No. 58,616; Aug. 2; v. 289; p. 140.

Multiplex Display Fixture Company. (See Crecelius, Theodore E., assignor.)

Namiot, Charles B., New York, N. Y. Wedding-ring. No. 58,617; Aug. 2; v. 289; p. 140.
National Ring Traveler Co. (See Wentworth, Philip C., assignor.)
Neuswanger, William, Glenwood Springs, Colo. Pen and pencil clip blank. No. 58,618; Aug. 2; v. 289; p. 140.
Oldfield Tire Company, The. (See Bollinger, Frederick A., assignor.)
Ollis, Harry F., East Lexington, Mass. Bracket for pillow-sham holders. No. 58,619; Aug. 2; v. 289; p. 140.
Osgood, John L., Buffalo, N. Y. Hand-grip for a file or similar article. Nos. 58,620–3; Aug. 2; v. 289; pp. 140–1.
Ousoun-Boghossian, Sissag K., Washington, D. C. Grille for phonograph-cabinets and organs. No. 58,624; Aug. 2; v. 289; p. 141.
Palmer, Charles R., Cincinnati, Ohio. Puzzle device. No. 58,625; Aug. 2; v. 289; p. 141.
Penton, Carl T., Detroit, Mich. Transmission-case for a tractor. No. 58,626; Aug. 2; v. 289; p. 142.
Perfecilite Manufacturing Company. (See Heide, Carl H., assignor.)
Perrone, Eduardo, Gloversville, N. Y. Glove. No. 58,627; Aug. 2; v. 289; p. 142.
Popper, Isaac C., assignor to The Theros Company, New York, N. Y. Can. No. 58,628; Aug. 2; v. 289; p. 142.
Rayburn, Kitty. (See Clyne, R. G., and Rayburn.)
Reliable Knitting Works. (See Joha, Elmer N., assignor.)
Riley, James R., Dunbar, assignor to Dunbar Tire and Rubber Company, Charleston, W. Va. Automobile-tire tread. No. 58,629; Aug. 2; v. 289; p. 142.
Ruckman, Floyd A., Fort Wayne, Ind. Radiator-filling cap. No. 58,630; Aug. 2; v. 289; p. 142.
Sampson, Samuel, New York, N. Y. Display-card. No. 58,631; Aug. 2; v. 289; p. 143.
Sanders, Walter E., assignor to Essex Rubber Company, Trenton, N. J. Heel-rest. No. 58,632; Aug. 2; v. 289; p. 143.
Schnepf, Emil L., assignor to Maddock Pottery Company, Trenton, N. J. Plate or similar article. No. 58,633; Aug. 2; v. 289; p. 143.
Schoenthal, Fred C., Buffalo, N. Y. Wheel-disk. No. 58,634; Aug. 2; v. 289; p. 143.
Shapiro & Aronson, Inc. (See Klein, Max, assignor.)
Shinn, Bess and L. White Sulphur Springs, W. Va. Hobbyhorse. No. 58,635; Aug. 2; v. 289; p. 143.
Shinn, Lita. (See Shinn, Bess and L.)
Smykowski, Charles, Youngstown, Ohio. Framed picture. No. 58,636; Aug. 2; v. 289; p. 144.
Sonora, Inc. (See Wolff, Joseph, assignor.)
Stefanko, Steven, Glen Carbon, Pa. Sealed postal card. No. 58,637; Aug. 2; v. 289; p. 144.
Strauss, Ferdinand, New York, N. Y. Toy. No. 58,638; Aug. 2; v. 289; p. 144.
Stuart, Benjamin F., San Antonio, Tex. Bank-check. No. 58,639; Aug. 2; v. 289; p. 144.
Talbott, Frank R., assignor to The Victor Rubber Company, Springfield, Ohio. Pneumatic-tire tread. No. 58,640; Aug. 2; v. 289; p. 144.
Taylor, June R., Los Angeles, Calif. Dress. No. 58,641; Aug. 2; v. 289; p. 144.
Theros Company, The. (See Popper, Isaac C., assignor.)
Thilli, Frank A., Cincinnati, Ohio. Button or badge. No. 58,642; Aug. 2; v. 289; p. 145.
Van Bloem, Paul S., Hempstead, N. Y. Elevator-signal. Nos. 58,643–5; Aug. 2; v. 289; p. 145.
Vick, Daniel P., Seattle, Wash. Combination lifting-jack and vise. No. 58,646; Aug. 2; v. 289; p. 145.
Victor Rubber Company, The. (See Talbott, Frank R., assignor.)
Waddell, John M., Greenfield, Ohio. Phonograph-case. Nos. 58,647–8; Aug. 2; v. 289; p. 146.
Walter, George, Baltimore, Md. Badge, button, or pin. No. 58,649; Aug. 2; v. 289; p. 146.
Wellman, Lester R., assignor to Friedly-Voshardt Co., Chicago, Ill. Ceiling-holder. No. 58,650; Aug. 2; v. 289; p. 146.
Wentworth, Philip C., assignor to National Ring Traveler Co., Providence, R. I. Paper-weight. No. 58,651; Aug. 2; v. 289; p. 146.
Wiechert, Frank T., Lakewood, Ohio. Soda-fountain. No. 58,652; Aug. 2; v. 289; p. 146.
Wilson, Miles, Canastota, assignor to G. E. Chambers, Oneida, N. Y. Toothpick-vender. No. 58,653; Aug. 2; v. 289; p. 147.
Wisconsin Chair Company, The. (See Moeser, Otto E., assignor.)
Wolf, Morris, New York, N. Y. Sifter-top receptacle. No. 58,654; Aug. 2; v. 289; p. 147.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora, Inc. Phonograph-cabinet. Nos. 58,655–6; Aug. 2; v. 289; p. 147.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Adler, H., & Bro., New York, N. Y. Ribbons in lengths. No. 145,304; Aug. 2; v. 289; p. 177.
Alamo, F. S., Company, Inc., The, El Paso, Tex. Coffee. No. 145,305; Aug. 2; v. 289; p. 177.
Aldan Publishing Company, Inc., New York, N. Y. Magazines and trade publications published weekly. No. 145,306; Aug. 2; v. 289; p. 177.
Alexander Gallerani Company, Pittsburgh, Pa. Macaroni. No. 145,307; Aug. 2; v. 289; p. 179.
Allen, James G., Oakland, Calif. Powdered and flaked graphite. No. 145,404; Aug. 2; v. 289; p. 183.
Allmann, Fred R., Brooklyn, N. Y. Woolen piece goods. No. 145,405; Aug. 2; v. 289; p. 183.
Alloy Metal Stamping & Specialty Company, Philadelphia, Pa. Ground-clamp for electric conductors. No. 145,307; Aug. 2; v. 289; p. 177.
American Desatype Co., New York, N. Y. Photographic typewriters. No. 145,308; Aug. 2; v. 289; p. 177.
American Nut and Seed Oil Corporation, New York, N. Y. Vegetable and edible oils. No. 145,309; Aug. 2; v. 289; p. 177.
American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco. No. 145,310; Aug. 2; v. 289; p. 177.
American Tripoli Company, Seneca, Mo. Tripoli flour (ground Tripoli stone.) No. 145,495; Aug. 2; v. 289; p. 183.
American Wholesale Corporation, Baltimore and Cumberland, Md. Automobile-tire tubes. No. 145,311; Aug. 2; v. 289; p. 177.
Anchor Stone & Range Co., New Albany, Ind. Wood, gas, and oil stoves and ranges. No. 145,312; Aug. 2; v. 289; p. 177.
Ancient and Mystical Order Rosae Crucis, San Francisco, Calif. Monthly magazine and certain named publications. No. 145,313; Aug. 2; v. 289; p. 165.
Argus Enterprises, Inc., The, Cleveland, Ohio. Screens for use with picture-projecting apparatus. No. 145,316; Aug. 2; v. 289; p. 177.
Auerbach, D. & Sons., New York, N. Y. Chocolates. No. 145,317; Aug. 2; v. 289; p. 177.
B. Stilling-Andersen, Inc., New York, N. Y. Oleomargarin. No. 145,464; Aug. 2; v. 289; p. 182.
Baer Baking Co., Oakland and San Francisco, Calif. Foodstuffs—namely, Cake. No. 145,318; Aug. 2; v. 289; p. 177.
Beam, O. A., & Son, Avon, N. Y. Wheat-flour, buckwheat and rye flour, and Graham cornmeal. No. 145,319; Aug. 2; v. 289; p. 177.
Beatrice Creamery Company, Chicago, Ill., and Topeka, Kans. Oleomargarin. No. 145,320; Aug. 2; v. 289; p. 177.
Beech, Van Sicklen & Co., Inc., San Francisco, Calif. Canned fruits, vegetables, fish, and milk and wheat-flour. No. 145,321; Aug. 2; v. 289; p. 177.
Ball Products Co., Brooklyn, N. Y. Metal-polish. No. 145,322; Aug. 2; v. 289; p. 177.
Bishop & Company, Los Angeles, Calif. Crackers, biscuits, cakes, and candy, &c. No. 145,323; Aug. 2; v. 289; p. 178.
Blair Milling Co., The, Atchison, Kans. Wheat-flour. No. 145,497; Aug. 2; v. 289; p. 183.
Blue Buckle Cotton Mills, Inc., Rock Hill, S. C. Bed-ticking. No. 145,498; Aug. 2; v. 289; p. 183.
Booth Fisheries Sardine Company, Chicago, Ill. Canned sardines. No. 145,324; Aug. 2; v. 289; p. 177.
Bowen Products Corporation, Auburn, N. Y. Oil and grease-cups. No. 145,325; Aug. 2; v. 289; p. 177.
Boyle Manufacturing Company. Receptacles and mountings for same. No. 145,499; Aug. 2; v. 289; p. 183.
Brown Company Inc., The, Philadelphia, Pa. Poultry food made from meat and bone scraps. No. 145,326; Aug. 2; v. 289; p. 177.
Brown Shoe Company, Inc., St. Louis, Mo. Shoes for boys and girls, made of leather and canvas. No. 145,327; Aug. 2; v. 289; p. 177.
Burnham-Munger-Root Dry Goods Company, Kansas City, Mo. Draperies in the piece or bolt. No. 145,328; Aug. 2; v. 289; p. 177.
Cable-Draper Baking Company, Detroit, Mich. Bread. No. 145,329; Aug. 2; v. 289; p. 177.
Camp, Beauford R., San Francisco, Calif. Candy. No. 145,330; Aug. 2; v. 289; p. 177.
Campbell Baking Company, Wilmington, Del., and Kansas City, Mo. Bread and rolls. No. 145,500; Aug. 2; v. 289; p. 184.
Cape County Milling Company, Jackson, Mo. Self-rising flour. No. 145,331; Aug. 2; v. 289; p. 178.
Cardona, Morey and Craig, New York, N. Y. Coffee. No. 145,332; Aug. 2; v. 289; p. 178.
Chemical Paper Company, Washington, D. C. Completely-printed transparent meat labels. No. 145,333; Aug. 2; v. 289; p. 178.
Cheney Brothers, South Manchester, Conn. Woven, knitted, &c., fabrics in the piece. No. 145,334; Aug. 2; v. 289; p. 178.
Chicago Flexible Shaft Company, Chicago, Ill. Electric flatirons. No. 145,335; Aug. 2; v. 289; p. 178.

Clearwater, H. P., Hallowell, Me. Pharmaceutical preparation. No. 145,501; Aug. 2; v. 289; p. 184.
Clyde Milling & Elevator Co., The, Clyde, Kans. Wheat-flour. No. 145,336; Aug. 2; v. 289; p. 178.
Cockill, Henry F., & Sons Limited, Whitcliffe, Cleckheaton, England. Leather and bulata beltings. No. 145,337; Aug. 2; v. 289; p. 178.
Columbia Ribbon & Carbon Mfg. Co., New York, N. Y. Cotton and silk fabrics in the piece and strip form. No. 145,338; Aug. 2; v. 289; p. 178.
Commercial Excelite Co., Inc., Baltimore, Md. Electric-lighting fixtures. No. 145,339; Aug. 2; v. 289; p. 178.
Commercial Radio Co. of America, Providence, R. I. Electric coils. No. 145,340; Aug. 2; v. 289; p. 178.
Cone Company of America, New York, N. Y. Ice-cream cones. No. 145,341; Aug. 2; v. 289; p. 178.
Cox, J. Elwood, Mfg. Co., High Point, N. C. Certain named hardwood dimension-stock. No. 145,342; Aug. 2; v. 289; p. 178.
Crawford Manufacturing Co., Inc., Richmond, Va. Tire-covers. No. 145,343; Aug. 2; v. 289; p. 178.
Cyco Medicine Company, Chicago, Ill. Non-alcoholic ginger cordial. No. 145,344; Aug. 2; v. 289; p. 178.
Davidson Brothers Co., Des Moines, Iowa. Chocolate-coated candies. No. 145,345; Aug. 2; v. 289; p. 178.
Dayton Automotive Wheel Company, Dayton, Ohio. Wheels. No. 145,502; Aug. 2; v. 289; p. 184.
Dearborn Equipment Company, Kalamazoo, Mich. Certain automotive tools and equipment. No. 145,346; Aug. 2; v. 289; p. 178.
De Servais, Antoinette M., Montreal, Quebec, Canada. Cereal foods for infants and adults. No. 145,315; Aug. 2; v. 289; p. 177.
Dill, Herbert E., Bingham, Mass. Toys in the nature of planchettes. No. 145,347; Aug. 2; v. 289; p. 178.
Dilling & Company, Indianapolis, Ind. Old-fashioned taffy candy. No. 145,348; Aug. 2; v. 289; p. 178.
Dorfmann, Irving A., New York, N. Y. Malt extract. No. 145,503; Aug. 2; v. 289; p. 184.
Duodisk Steel Wheel Corporation, Los Angeles, Calif. Vehicle-wheels. No. 145,349; Aug. 2; v. 289; p. 178.
Duryea Manufacturing Co., Bayonne, N. J. Turpentine. No. 145,350; Aug. 2; v. 289; p. 178.
Economy Hoist and Body Company, New York, N. Y. Automobile-bodies. No. 145,351; Aug. 2; v. 289; p. 178.
Endless Belt Corporation, Inc., New York, N. Y. Linen, cotton, and other fabric belts. No. 145,352; Aug. 2; v. 289; p. 178.
Eng-Skell Company, Inc., San Francisco, Calif. Flavoring compound for use in syrups, candies, &c. No. 145,353; Aug. 2; v. 289; p. 178.
Eng-Skell Company, Inc., San Francisco, Calif. Stabilizing or smoothing powder for ice-creams, &c. No. 145,354; Aug. 2; v. 289; p. 178.
Eno, George W., Rubber Company, Los Angeles, Calif. Rubber-coated fabric inner tires for relining pneumatic-tire casings. No. 145,355; Aug. 2; v. 289; p. 178.
Eno, George W., Rubber Company, Los Angeles, Calif. Retreads for attachment to the outer surface of worn pneumatic-tire casings. No. 145,356; Aug. 2; v. 289; p. 178.
Erbograph Company, New York, N. Y. Photographic machines, cameras, and motion-picture films. No. 145,357; Aug. 2; v. 289; p. 178.
Euclid Candy Company, The, Cleveland, Ohio. Candy. No. 145,358; Aug. 2; v. 289; p. 178.
Excelsior Baking Company, Minneapolis, Minn. Toast. No. 145,359; Aug. 2; v. 289; p. 178.
Federal Adding Machine Corporation, New York, N. Y. Adding-machine. No. 145,504; Aug. 2; v. 289; p. 184.
Fitzpatrick Bros., Chicago, Ill. Cleaning and scouring preparation for glass and metal, &c. No. 145,360; Aug. 2; v. 289; p. 178.
Flexo Lens Protector Company, Camden, N. J. Glass lens for headlights. No. 145,361; Aug. 2; v. 289; p. 178.
Frees, H. E., Company, The, Chicago, Ill. Malt and hop syrup used for food purposes. No. 145,362; Aug. 2; v. 289; p. 178.
Gallerani, Alexander, Company, Pittsburgh, Pa. Macaroni. No. 145,363; Aug. 2; v. 289; p. 178.
Gammon, A. S., Jr., Norfolk, Va. Booklets published monthly used in connection with saving systems. No. 145,365; Aug. 2; v. 289; p. 179.
Gastua, A., & Company Inc., New York, N. Y. Salad-oil pressed from corn. No. 145,366; Aug. 2; v. 289; p. 179.
Globe Cotton Oil Mills, Los Angeles, Calif. Cotton-seed oils for cooking purposes and solidified fats for food purposes. No. 145,368; Aug. 2; v. 289; p. 179.
Gloria Ice Cream Company, Stockton, Calif. Ice-cream, water-ices, and sherbets. No. 145,369; Aug. 2; v. 289; p. 179.
Goldberg, David N., Chicago, Ill. Non-alcoholic, non-cereal, maltless fruit beverage. No. 145,370; Aug. 2; v. 289; p. 179.
Goodrich, B. F., Company, The, New York, N. Y. Belts and belting made of rubber combined with fabric. No. 145,505; Aug. 2; v. 289; p. 184.
Gould's Manufacturing Company, The, Seneca Falls, N. Y. Power-driven water-supply pumps. No. 145,371; Aug. 2; v. 289; p. 179.
Graphoscope Company, The, Washington, D. C. Motion-picture machines and parts thereof. No. 145,372; Aug. 2; v. 289; p. 179.
Gray-Juergens Co., Cincinnati, Ohio. Syrups. No. 145,373; Aug. 2; v. 289; p. 179.
Guthrie & Company, Limited, Singapore, Straits Settlements, and London, England. Articles of clothing. No. 145,375; Aug. 2; v. 289; p. 179.
H & W Company, Inc., Newark, N. J. Brassières and bandeaux. No. 145,507; Aug. 2; v. 289; p. 184.
Hannibal Milling Co., Hannibal, Mo. Wheat-flour. No. 145,376; Aug. 2; v. 289; p. 179.
Hanovia Chemical and Manufacturing Company, Newark, N. J. Camera-lenses. No. 145,377; Aug. 2; v. 289; p. 179.
Hendley Chocolate Co., Baltimore, Md. Candy. No. 145,378; Aug. 2; v. 289; p. 179.
Henningsen Produce Company, Portland, Oreg. Evaporated milk. No. 145,506; Aug. 2; v. 289; p. 184.
Hesse, Alfred T., New York, N. Y. Thermometers, hydrometers, and hygrometers. No. 145,379; Aug. 2; v. 289; p. 179.
Hewitt, C. B., & Brothers, Inc., New York, N. Y. Roofing paper. No. 145,380; Aug. 2; v. 289; p. 179.
Hughey, Fannie E., Chicago, Ill. Musical-instrument outfit. No. 145,374; Aug. 2; v. 289; p. 179.
India Tire & Rubber Co., The, Mogadore, Ohio. Tires and inner tubes. No. 145,508; Aug. 2; v. 289; p. 185.
Industrial Controller Company, Milwaukee, Wis. Electrical-motor starters and controllers. No. 145,381; Aug. 2; v. 289; p. 179.
Inner Circle Corporation, Baltimore, Md., and New York, N. Y. Malt beverage. No. 145,382; Aug. 2; v. 289; p. 179.
Ismert-Hincke Milling Company, The, Kansas City, Kans., and Kansas City, Mo. Wheat-flour. Nos. 145,383–8; Aug. 2; v. 289; p. 179.
Jarvis and Jarvis, Palmer, Mass. Service-wagons, buffers, bumpers, wheels, &c. No. 145,389; Aug. 2; v. 289; p. 179.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Soap. No. 145,314; Aug. 2; v. 289; p. 177.
Jerrim, James H., Bromsgrove, England. Vises, chucks, and work-holding fixtures for metal-working-machine tools. No. 145,390; Aug. 2; v. 289; p. 179.
Johnson Educator Food Co., Cambridge, Mass. Canned fruits, vegetables, soup, &c. No. 145,391; Aug. 2; v. 289; p. 179.
Jossy-Miller Co., Beaumont, Tex. Dairy feed. No. 145,392; Aug. 2; v. 289; p. 179.
Kaiser, Fred, Scranton, Pa. Bread. No. 145,393; Aug. 2; v. 289; p. 179.
Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Cereal breakfast food. No. 145,422; Aug. 2; v. 289; p. 180.
Kempen, George F., Ardmore, Pa. Ice-cream, frozen dainties, cake, and pastry delicacies. No. 145,394; Aug. 2; v. 289; p. 179.
Kibbe Brothers Company, Springfield, Mass. Candy. No. 145,395; Aug. 2; v. 289; p. 180.
Kokomo Specialties Mfg. Co., Kokomo, Ind. Vehicle of the scooter type having runners for traveling on ice. No. 145,396; Aug. 2; v. 289; p. 180.
Kotsovetes, John, Indianapolis, Ind. Candy and chocolate-bars. No. 145,397; Aug. 2; v. 289; p. 180.
Larus & Brother Company, Richmond, Va. Plug-tobacco. No. 145,509; Aug. 2; v. 289; p. 185.
Lerch, John H., Co., New York, N. Y. Articles of clothing. No. 145,398; Aug. 2; v. 289; p. 180.
Lemann & Cie., Langnau, Bern, Switzerland. Cheese. No. 145,399; Aug. 2; v. 289; p. 180.
Liberty Maccheroni Mfg. Co., Buffalo, N. Y. Macaroni and vermicelli. No. 145,400; Aug. 2; v. 289; p. 180.
Liggett & Myers Tobacco Co., New York, N. Y. Leaf-tobacco. No. 145,401; Aug. 2; v. 289; p. 180.
Locke, H. E., & Company, Inc., Boston, Mass. Thread and yarn. No. 145,510; Aug. 2; v. 289; p. 185.
Lonsdale Company, Providence, R. I. Cotton goods in the piece. No. 145,402; Aug. 2; v. 289; p. 180.
Loring, Walter L., Plymouth, Mass. Parlor game played with a board and small pieces or men movable over same. No. 145,492; Aug. 2; v. 289; p. 180.
Lorraine Car Co., Richmond, Ind. Motor-driven vehicles. No. 145,511; Aug. 2; v. 289; p. 185.
Luburg, Charles E., Philadelphia, Pa. Storage batteries. No. 145,404; Aug. 2; v. 289; p. 180.
M-R Company, The, Lincoln, Nebr. Timers and commutators. No. 145,421; Aug. 2; v. 289; p. 180.
McMahon, John T., Kansas City, Mo. Solid resilient inner tubing for use in automobile-tires. No. 145,405; Aug. 2; v. 289; p. 180.
Maass & Kemper, Incorporated, Baltimore, Md. Certain named dress-trimmings, &c. No. 145,406; Aug. 2; v. 289; p. 180.
Magic Kleno Manufacturing Co., Kansas City, Mo. Paste preparation having detergent and healing properties. No. 145,407; Aug. 2; v. 289; p. 180.
Majestic Lace and Emby. Works, New York, N. Y. Laces and embroideries in the piece. No. 145,408; Aug. 2; v. 289; p. 180.
Malt Diastase Company, New York, N. Y. Non-alcoholic liquid, semiliquid, and concentrated malt extracts. No. 145,409; Aug. 2; v. 289; p. 180.
Marshall Field & Company, Chicago, Ill. Cambric muslin in the piece. No. 145,410; Aug. 2; v. 289; p. 180.
Marshall Field & Company, Chicago, Ill. Cotton duck in the piece. No. 145,411; Aug. 2; v. 289; p. 180.

Marshall Field & Company, Chicago, Ill. Canton-flannel, pillow-tubing, and cotton duck in the piece. No. 145,412; Aug. 2; v. 289; p. 180.
Marshall Field & Company, Chicago, Ill. Muslins in the piece. No. 145,413; Aug. 2; v. 289; p. 180.
Marshall Field & Company, Chicago, Ill. Bedspreads. No. 145,414; Aug. 2; v. 289; p. 180.
Marshall Field & Company, Chicago, Ill. Silk goods in the piece. No. 145,415; Aug. 2; v. 289; p. 180.
Messinger, Ralph B., San Diego, Calif. Preparation for preventing the deposit of moisture on show-windows, windshields, &c. No. 145,416; Aug. 2; v. 289; p. 180.
Metal Office Furniture Co., Grand Rapids, Mich. Steel filing-cabinets and desks. No. 145,512; Aug. 2; v. 289; p. 185.
Metropolitan Body Company, The, Bridgeport, Conn. Truck-bodies—namely, autotruck-bodies. No. 145,417; Aug. 2; v. 289; p. 180.
Midget Novelty Co. Inc., New York, N. Y. Toy carpet-sweepers. Nos. 145,418–19; Aug. 2; v. 289; p. 180.
Miller Pasteurizing Machine Company, (now by change of name The H. H. Miller Industries Company,) Canton, Ohio. Ice-cream freezers, batch-tanks for ice-cream freezers, cooling and holding tanks, &c. No. 145,513; Aug. 2; v. 289; p. 185.
Mogul Wagon Company, Hopkinsville, Ky. Farm, log, and one-horse wagons. No. 145,420; Aug. 2; v. 289; p. 180.
N. V. Stoom Chocolade & Cacaofabriek, "Kwatta," Middenlaan, Breda, Netherlands. Chocolate. No. 145,467; Aug. 2; v. 289; p. 182.
Nagano, Shimsaku, Chicago, Ill. Sauce for seasoning food. No. 145,514; Aug. 2; v. 289; p. 185.
National Biscuit Company, Jersey City, N. J., and New York, N. Y. Biscuit. No. 145,423; Aug. 2; v. 289; p. 180.
National Ring Traveler Co., Providence, R. I. Ring-travelers. No. 145,424; Aug. 2; v. 289; p. 180.
Northrup, King & Co., Minneapolis, Minn. Garden-seed. No. 145,425; Aug. 2; v. 289; p. 180.
Northwestern Extract Co., Milwaukee, Wis. Maltless, non-cereal beverage. No. 145,515; Aug. 2; v. 289; p. 186.
Norton Company, Worcester, Mass. Safety-tread tiles and terrazzo of bonded abrasive grains. Nos. 145,426–7; Aug. 2; v. 289; p. 180.
O'Bannon Corporation, New York, N. Y. Waterproof upholstering fabrics. No. 145,516; Aug. 2; v. 289; p. 186.
Ogden Wholesale Drug Co., Ogden, Utah. Preparations used in the manufacture of ice-cream. No. 145,428; Aug. 2; v. 289; p. 180.
Oliver Oil-Gas Burner & Machine Company, St. Louis, Mo., and San Francisco, Calif. Cleansing material for the skin. No. 145,517; Aug. 2; v. 289; p. 186.
Page & Shaw, Inc., Cambridge, Mass. Butter-scotch. No. 145,429; Aug. 2; v. 289; p. 181.
Page & Shaw, Inc., Cambridge, Mass. Chocolate, cocoa-powder, and cocoa-butter. No. 145,430; Aug. 2; v. 289; p. 181.
Parker & Waterman Manufacturing Co., Los Angeles, Calif. Flexible fabric tire-covers. No. 145,431; Aug. 2; v. 289; p. 181.
Parsons, J. H., Chemical Company, The, Chicago, Ill. Household and general cleaning compound in powder form. No. 145,432; Aug. 2; v. 289; p. 181.
Patrick, F. A., & Co., Duluth, Minn. Bureau and table scarfs, blankets, mats, &c. No. 145,433; Aug. 2; v. 289; p. 181.
Patterson Candy Co. Limited, The, Toronto, Ontario, Canada. Chocolates and candy. No. 145,434; Aug. 2; v. 289; p. 181.
Pease & Dwyer, Memphis, Tenn. Dairy feed. No. 145,435; Aug. 2; v. 289; p. 181.
Petersen, Arthur E., Portland, Oreg. Laundry washing compound. No. 145,436; Aug. 2; v. 289; p. 181.
Peyroux, A., & Cie., Paris, France. Tonic food in granulated form. No. 145,437; Aug. 2; v. 289; p. 181.
Phillips, William L., Brockton, Mass. Spark-plugs. No. 145,438; Aug. 2; v. 289; p. 181.
Pilgrim Pictures Company, Boston, Mass. Motion-picture-projecting machine and films therefor. No. 145,439; Aug. 2; v. 289; p. 181.
Procter and Gamble Company, Cincinnati, Ohio. Soap. No. 145,440; Aug. 2; v. 289; p. 181.
Pugh, Charles H., Limited, Birmingham, England. Carburetors for internal-combustion engines. No. 145,441; Aug. 2; v. 289; p. 181.
Radford, William A., Chicago, Ill. Monthly magazine. No. 145,442; Aug. 2; v. 289; p. 181.
Reid, A. L., & Co., New York, N. Y. Cotton piece goods. No. 145,518; Aug. 2; v. 289; p. 186.
Renovatol Company, Inc., Philadelphia, Pa. Preparation for taking grease and dirt out of leather and woven power-transmission belts, &c. No. 145,443; Aug. 2; v. 289; p. 181.
Requard, Edward F., Baltimore, Md. Cigars. Nos. 145,444–5; Aug. 2; v. 289; p. 181.
Richardson Corporation, Rochester, N. Y. Root-beer syrup and root-beer made from such syrup. No. 145,519; Aug. 2; v. 289; p. 186.
Robertson, J. T., Co., The, Hartford, Conn. Soaps. No. 145,446; Aug. 2; v. 289; p. 181.
Romano, Guglielmo F., New York, N. Y. Dyes. No. 145,520; Aug. 2; v. 289; p. 186.
Rosenthal, A. S., Company, New York, N. Y. All-silk crepe piece goods. No. 145,447; Aug. 2; v. 289; p. 181.
Rosenthal, Moses, Oakland, Calif. Cake. No. 145,448; Aug. 2; v. 289; p. 181.
Saberton Mfg. Co., Tampa, Fla. Toilet soap. No. 145,449; Aug. 2; v. 289; p. 181.
San Benito County Canning Co., Hollister, Calif. Canned fruits and vegetables. No. 145,450; Aug. 2; v. 289; p. 181.
San Bernardino Canning Co., San Bernardino, Calif. Canned vegetables and fruits. No. 145,451; Aug. 2; v. 289; p. 181.
San Diego Conserve Company, San Diego, Calif. Salad-dressing, vinegar, jellies, &c. No. 145,452; Aug. 2; v. 289; p. 181.
Schiller, Louis, San Francisco, Calif. Non-alcoholic malt-less beverage. No. 145,453; Aug. 2; v. 289; p. 181.
Schoenhofen Company, Chicago, Ill. Ginger-ale. No. 145,454; Aug. 2; v. 289; p. 181.
Schoenhofen Company, Chicago, Ill. Root-beer. No. 145,455; Aug. 2; v. 289; p. 181.
Schram Glass Manufacturing Co., Hillsboro, Ill., and St. Louis, Mo. Lids or caps for fruit-jars. No. 145,521; Aug. 2; v. 289; p. 186.
Schuler Chocolate Factory, Winona, Minn. Chocolate candy. No. 145,456; Aug. 2; v. 289; p. 181.
Schweitzer, Isidore, New York, N. Y. Knitted and textile fabric-underwear for women and children. No. 145,522; Aug. 2; v. 289; p. 186.
Shire, Harry I., Detroit, Mich. Electrical ammeters. No. 145,457; Aug. 2; v. 289; p. 181.
Sidway Mercantile Company, Elkhart, Ind. Baby-carriages. No. 145,523; Aug. 2; v. 289; p. 186.
Simmons Hardware Company, St. Louis, Mo. Certain named roofing. No. 145,524; Aug. 2; v. 289; p. 187.
Simplex Electric Heating Co., Boston, Mass. Electric heating-radiators. No. 145,458; Aug. 2; v. 289; p. 181.
Sioux City Tire and Manufacturing Company, Sioux City, Iowa. Rubber inner tire-tubes and fabric and cord tire-casings. No. 145,459; Aug. 2; v. 289; p. 181.
Slocomb, J. T., Co., Providence, R. I. Micrometer-calipers. No. 145,460; Aug. 2; v. 289; p. 181.
Smith, Alfred H., Company, New York, N. Y. Soaps. No. 145,461; Aug. 2; v. 289; p. 181.
Spencer, W. M., Sons Co., Cincinnati, Ohio. Jellies, fruits, preserves, jams, and sweet pickles. No. 145,462; Aug. 2; v. 289; p. 182.
Stevens-Duryea, Inc., Chicopee, Mass. Automobiles. No. 145,463; Aug. 2; v. 289; p. 182.
Stockman, L., & Son, Brooklyn, N. Y. Wool, cotton, and silk yarns. No. 145,465; Aug. 2; v. 289; p. 182.
Stoits, Melville, St. Louis, Mo. Toy miniature theater. No. 145,466; Aug. 2; v. 289; p. 182.
Studebaker Corporation, South Bend, Ind., and Detroit, Mich. Rubber tires for automobiles. No. 145,525; Aug. 2; v. 289; p. 187.
Sunset Food Products Co., Seattle, Wash. Prepared cake-flour. No. 145,468; Aug. 2; v. 289; p. 182.
Sussman Wormser & Co., San Francisco, Calif. Certain foods. No. 145,491; Aug. 2; v. 289; p. 182.
Symms-Brownell Mfg. Co., Sioux Falls, S. D. Spark-plugs. No. 145,469; Aug. 2; v. 289; p. 182.
Temtor Corn & Fruit Products Co., St. Louis, Mo., and South Fort Smith, Ark. Stock feed. No. 145,526; Aug. 2; v. 289; p. 187.
Texas Wagon Works, Inc., The, Houston, Tex. Trailers. No. 145,470; Aug. 2; v. 289; p. 182.
Tynan Throwing Co., Paterson, N. J. Thrown silk. No. 145,471; Aug. 2; v. 289; p. 182.
U. S. Bottlers Machinery Co., Chicago, Ill. Monthly journal. No. 145,472; Aug. 2; v. 289; p. 182.
Underwood Typewriter Company, New York, N. Y. Typewriting machines and parts. No. 145,527; Aug. 2; v. 289; p. 187.
United States and South America Corporation, The, New York, N. Y. Piece goods, carpets, rugs, quilts, &c. No. 145,473; Aug. 2; v. 289; p. 182.
United States Tire Company, New York, N. Y. Vehicle-tires made of rubber. No. 145,528; Aug. 2; v. 289; p. 187.
Victor Brewing Company, The, Jeannette, Pa. Beer. No. 145,474; Aug. 2; v. 289; p. 182.
Wabash Valley Electric Co., Clinton, Ind. Electrical ranges and washing-machines. No. 145,475; Aug. 2; v. 289; p. 182.
Walton Milling Company, Lansing, Mich. Cereal foods commonly known as breakfast cereals. No. 145,476; Aug. 2; v. 289; p. 182.
Walworth Sales Corporation, New York, N. Y. Woolen and cotton piece goods. No. 145,477; Aug. 2; v. 289; p. 182.
Warrensburg Canning Company, Warrensburg, Ill. Canned corn. No. 145,481; Aug. 2; v. 289; p. 182.
Welch Grape Juice Company, The, Westfield, N. Y. Jam, jelly, fruit preserves, and conserves. Nos. 145,478–9; Aug. 2; v. 289; p. 182.
West, Augustus A., Philadelphia, Pa. Hair-nets. No. 145,529; Aug. 2; v. 289; p. 187.
Westmoreland, Wade H., Indianapolis, Ind. Cleaning and washing powder. Nos. 145,482–3; Aug. 2; v. 289; p. 182.
Wheeler, William C., Oklahoma, Okla. Publication published monthly. No. 145,484; Aug. 2; v. 289; p. 182.

Wheeling Corrugating Company, Wheeling, W. Va. Sheet-metal gas and oil stoves, ovens, stovepipe elbows, &c. No. 145,485; Aug. 2; v. 289; p. 182.
Wheeling Corrugating Company, Wheeling W. Va. Building material. No. 145,486; Aug. 2; v. 289; p. 182.
Whitcher, Frank W., Company, Portland, Me., and Boston, Mass. Fabricated insoling. Nos. 145,530–1; Aug. 2; v. 289; p. 187.
Whittemore Brothers Corporation, Cambridge, Mass. Dressing to be used on leather and articles made thereof. No. 145,487; Aug. 2; v. 289; p. 182.
Whittier, Charles T., New York, N. Y. Puddings and pie-fillings. No. 145,488; Aug. 2; v. 289; p. 182.
Whittier Citrus Association, Whittier, Calif. Fresh citrus fruits. No. 145,489; Aug. 2; v. 289; p. 182.
Wilkins, H. P., Co., Chicago, Ill. Oleomargarin. No. 145,490; Aug. 2; v. 289; p. 182.
Wo, Dr. C. Gee, Portland, Oreg. Medicinal preparations for treatment of rheumatism, catarrh, &c. No. 145,367; Aug. 2; v. 289; p. 179.
Worthington Ball Company, Elyria, Ohio. Golf-balls. No. 145,492; Aug. 2; v. 289; p. 182.
Zachary, Isaiah C., Wichita, Kans. Polish for automobile-bodies. No. 145,493; Aug. 2; v. 289; p. 182.
Zerbst Pharmaceutical Co., St. Joseph, Mo. Remedy for la grippe and colds. No. 145,532; Aug. 2; v. 289; p. 187.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

A/S. Trondhjem Canning and Export Co., Buran, Trondhjem, Norway. Canned fish. No. 140, 218; Aug. 2; v. 289; p. 156.

Aachener Thermalwasser Kaiserbrunnen Aktiengesellschaft, Aachen, Germany. Natural Aachener thermal water. No. 137,060; Aug. 2; v. 289; p. 153.

Achilles Rubber and Tire Co. Inc., The, Binghamton, N. Y. Rubber tire-casings and tubes. No. 146,104; Aug. 2; v. 289; p. 168.

Acme Shear Company, The, Bridgeport, Conn. Scissors and shears. No. 146,687; Aug. 2; v. 289; p. 172.

Adams, Geo. H., Co., Waltham, Mass., and Hill, N. H. Latch-needles for knitting-machines. No. 147,083; Aug. 2; v. 289; p. 173.

Aeckerle, Walter L., Philadelphia, Pa. Purgative. No. 145,810; Aug. 2; v. 289; p. 167.

Alsace Lorraine Development and Trading Company, Limited, London, England. Rhine wine. No. 140,241; Aug. 2; v. 289; p. 156.

American Chain Company, Inc., New York, N. Y., and Bridgeport, Conn. Base-metal chains, loops, rings, staples, hooks, eyebolts, &c. No. 145,736; Aug. 2; v. 289; p. 166.

American Piano Company, Jersey City, N. J., and New York, N. Y. Musical instruments, particularly pianos, player-pianos, and parts thereof. Nos. 146,858–9; Aug. 2; v. 289; p. 172.

Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. No. 149,115; Aug. 2; v. 289; p. 176.

Andrews, Marcus P., Richmond, Va. Brooms for applying stucco. No. 134,291; Aug. 2; v. 289; p. 152.

Arnold, F. R., & Co., New York, N. Y. Compact powder and rouge. No 146,421; Aug. 2; v. 289; p. 171.

Atlas Mfg. Co., Los Angeles, Calif. Water-circulating pumps for internal-combustion engines. No. 136,926; Aug. 2; v. 289; p. 153.

Automotive Gear Works, Atlanta, Ga. Automobile gears and shafting, transmission-gears, &c. No. 145,781; Aug. 2; v. 289; p. 167.

Automotive Manufacturers Associates, Omaha, Nebr. Bodies and cabs for truck and passenger automobiles. No. 145,931; Aug. 2; v. 289; p. 167.

Babbitt Steam Specialty Co., New Bedford, Mass. Sprocket-valve wheel-rims and chain-guides. No. 143,740; Aug. 2; v. 289; p. 160.

Bach, Henry, Akron, Ohio. Hair-tonics, massage-creams, shampoos, &c. No. 140,981; Aug. 2; v. 289; p. 156.

Bastian-Morley Co., La Porte, Ind. Gas water-heaters. No. 134,876; Aug. 2; v. 289; p. 153.

Bates, Lindon W., Mount Lebanon, N. Y. Stable mobile fuel. No. 133,759; Aug. 2, v. 289; p. 152.

Bausch & Lomb Optical Co., Rochester, N. Y. Lenses, mangin mirrors, magnifying lenses, &c. No. 131,252; Aug. 2; v. 289; p. 151.

Bianchini, Férier, Lyon, France. Piece goods of silk, wool, linen, cotton, &c. No. 145,207; Aug. 2; v. 289; p. 164

Borgfeldt, George, & Co., New York, N. Y. Dolls. No. 141,896; Aug. 2; v. 289; p. 158.

Bresee, Bert E., Herkimer, N. Y. Felt shoes and slippers. No. 143,677; Aug. 2; v. 289; p. 159.

Breuchaud, Jules, Olive Bridge, N. Y. Live cattle, calves, swine, goats, sheep, butter, and milk. No. 121,615; Aug. 2; v. 289; p. 149.

Brown, J. A., & Son, Drill, Va. Medicine used in the treatment of rheumatism, swollen joints, &c. No. 146,201; Aug. 2; v. 289; p. 169.

Bu Bono, Inc., New York, N. Y., and Toronto, Ontario, Canada. Vermin-exterminator—namely, rat and mouse poison. No. 146,107; Aug. 2; v. 289; p. 168.

Caravel Company, Inc., New York, N. Y. Threads and yarns. No 134,113; Aug. 2; v. 289; p. 152.

Cardinal Mills, Chattanooga, Tenn. Hosiery. No. 144,823; Aug. 2; v. 289; p. 163.

Charles William Stores, Inc., The, Brooklyn, N. Y. Cream-separators. No. 144,490; Aug. 2; v. 289; p. 162.

Charles William Stores, Inc., The, Brooklyn, N. Y. Clothes for small boys—namely, wash-suits, rompers, blouses, and pants. No. 144,491; Aug. 2; v. 289; p. 162.

Clay, Henry, and Bock & Co. Ltd., New York, N. Y. Cigars. No. 138,752; Aug. 2; v. 289; p. 155.

Coingum Manufacturing Company, Philadelphia, Pa. Vending-machines. No. 145,739; Aug. 2; v. 289; p. 166.

Columbus, McKinnon Chain Company, The, Columbus, Ohio. Chains. No. 144,708; Aug. 2; v. 289; p. 163.

Contessa, Joseph, New York, N. Y. Silk and cotton yarns. No. 143,744; Aug. 2; v. 289; p. 160.

Cotter Shoe Co., The, Lynn, Mass. Shoes made wholly or in part of leather. No. 146,202; Aug. 2; v. 289; p. 169.

Cupples Company Manufacturers, St. Louis, Mo. Rubber tires and tubes. No. 131,860; Aug. 2; v. 289; p. 152.

Curtiss Candy Co., Chicago, Ill. Candy. No. 145,314; Aug. 2; v. 289; p. 165.

Diamond Auto Parts Corporation, Brooklyn, N. Y. Automobile-jacks. No. 146,299; Aug. 2; v. 289; p. 170.

Donahey, William, Chicago, Ill. Cut-out dolls. No. 144,279; Aug. 2; v. 289; p. 162.

Donnet, Louis, Nice, France. Substitute for coffee. No. 144,852; Aug. 2; v. 289; p. 163.

Drug Products Co., Inc., New York, N. Y. Chemicals, medicines, &c. No. 127,854; Aug. 2; v. 289; p. 150.

Dynamic Chemical Co., Buffalo, N. Y. Solvents for waste and sewer pipes. No. 146,256; Aug. 2; v. 289; p. 170.

Easterbrook, Allcard & Co. Limited, Sheffield, England. Twist-drills for use in machines, milling-cutters, &c. No. 136,366; Aug. 2; v. 289; p. 153.

Edmonds Shoe Company, Milwaukee, Wis. Leather shoes. Nos. 146,302–4; Aug. 2; v. 289; p. 170.

Ennisson, W. Jay, New York, N. Y. Parlor baseball games. No. 141,675; Aug. 2; v. 289; p. 157.

Enoz Chemical Company, Chicago, Ill. Insecticide. Nos. 145,774–5; Aug. 2; v. 289; pp. 166–7.

Fauda, Carlo O., San Francisco, Calif. Preparations for the treatment of coughs, saline salts, liniments, &c. No. 136,468; Aug. 2; v. 289; p. 153.

Faust, Henry C., St. Louis, Mo. Chewing-gum. No. 144,768; Aug. 2; v. 289; p. 163.

Federal Rubber Company, The, Cudahy, Wis. Transmission-disks, gripe, mallets, made wholly or partly of rubber. No. 146,883; Aug. 2; v. 289; p. 172.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires, reliners, repair-patches, &c. No. 146,884; Aug. 2; v. 289; p. 172.

Federal Rubber Company, The, Cudahy, Wis. Transmission-disks, gripe, mallets, made wholly or partly of rubber. No. 146,890; Aug. 2; v. 289; p. 173.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires, reliners, packing, &c. No. 146,891; Aug. 2; v. 289; p. 173.

Federal Rubber Company, The, Cudahy, Wis. Transmission-disks, gripe, mallets made wholly or partly of rubber. No. 146,897; Aug. 2; v. 289; p. 173.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires, reliners, packing, &c. No. 146,898; Aug. 2; v. 289; p. 173.

Finlayson, Estelle B., Ossining, N. Y. Face-creams, liquid and dry face-powders. No. 144,518; Aug. 2; v. 289; p. 162.

Fitch, F. W., Company, The, Des Moines, Iowa. Perfumes. No. 145,446; Aug. 2; v. 289; p. 165.

Fluegelman, N., & Co., Inc., New York, N. Y. Cotton piece goods. No. 146,169; Aug. 2; v. 289; p. 169.

Franklin Peanut Company, Franklin, Va. Peanuts in the shell. No. 144,808; Aug. 2; v. 289; p. 163.

Gaunt, Alfred C., Methuen, Mass. Woolen and worsted cloth in piece goods. No. 148,936; Aug. 2; v. 289; p. 175.

Geigy Company, Inc., New York, N. Y. Dyestuffs. No. 146,117; Aug. 2; v. 289; p. 168.

Glasgow Meat Pie Company, Salt Lake City, Utah. Meat pies. No. 141,009; Aug. 2; v. 289; p. 156.

Glemby's, S., Sons Co. Inc., New York, N. Y. Hair-nets. No. 149,001 Aug. 2; v. 289; p. 175.

Goldberg & Rosenblatt, New York, N. Y. Waists, overblouses, sport-coats, and skirts. No. 146,429; Aug. 2; v. 289; p. 172.

Goode, G. C., Company, The, Cleveland, Ohio. Various cutting-tools, particularly milling-cutters, lathe-bits, &c. No. 146,210; Aug. 2; v. 289; p. 169.

Goodman Hosiery Mills, Indianapolis, Ind. Hosiery. No. 145,783; Aug. 2; v. 289; p. 167.

Grasselli Chemical Company, Cleveland, Ohio. Dyes and dyestuffs. Nos. 147,612–18; Aug. 2; v. 289; p. 174.

Gray, Marion R., Los Angeles, Calif. Neckties and scarfs, soft collars, hosiery, suspenders, belts, &c. No. 143,816; Aug. 2; v. 289; p. 160.

Halcomb Steel Company, Syracuse, N. Y. Ferrous-alloy steels. Nos. 144,185–8; Aug. 2; v. 289; p. 161.

Halff, S., & Co., Los Angeles, Calif. Men's, women's, children's, and infants' hosiery. No. 145,337; Aug. 2; v. 289; p. 165.

Hand, J. A., Son Co., Moosic, Pa. Preparation for killing fleas and lice. No. 145,063; Aug. 2; v. 289; p. 164.

Hanover Mfg. Co., The, Baltimore, Md. Children's, misses', and junior's dresses, coats, rompers, bloomers, &c. No. 145,402; Aug. 2; v. 289; p. 165.

Harlan, O. A., & Co., San Jose, Calif. Dried and canned fruits. No. 143,048; Aug. 2; v. 289; p. 159.

Harriet Hubbard Ayer, New York, N. Y. Powder and rouge compacts. No. 146,354; Aug. 2; v. 289; p. 171.

Harriet Hubbard Ayer, New York, N. Y. Powder and rouge compacts. No. 146,356; Aug. 2; v. 289; p. 171.

Harriet Hubbard Ayer, New York, N. Y. Powder and rouge compacts. No. 146,358; Aug. 2; v. 289; p. 171.

Harriet Hubbard Ayer, New York, N. Y. Powder and rouge compacts. No. 146,360; Aug. 2; v. 289; p. 171.

Harriet Hubbard Ayer, New York, N. Y. Powder and rouge compacts. No. 146,362; Aug. 2; v. 289; p. 171.

Haywood Tire & Equipment Company, Marion, Ind. Tire-repair equipment. No. 134,895; Aug. 2; v. 289; p. 153.

Heida, John F., Baltimore, Md. Toilet cream. No. 142,490; Aug. 2; v. 289; p. 158.

Hess, Elam G., Manheim, Pa. Thin-shelled pecan-nuts. No. 143,757; Aug. 2; v. 289; p. 160.

Hinrichs, George F., Inc., New York, N. Y. Dressed poultry. No. 145,020; Aug. 2; v. 289; p. 163.

Home Woolen Mills, Eaton Rapids, Mich. Yarns. No. 147,242; Aug. 2; v. 289; p. 174.

Hymes, Abraham, New York, N. Y. Yarns. No. 139,777; Aug. 2; v. 289; p. 155.

Ingalls Brothers, Manchester, N. H. Medicine for the treatment of asthma. No. 145,268; Aug. 2; v. 289; p. 165.

Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Pneumatic hammers, drills, motors, saws, &c. No. 146,771; Aug. 2; v. 289; p. 172.

International Consolidated Chemical Corporation Inc. Face-lotions. No. 146,319; Aug. 2; v. 289; p. 170.

Irokese Trading Corporation, New York, N. Y. Rubber, composition, textile, celluloid, wooden, paper, and metal toys, &c. No. 139,973; Aug. 2; v. 289; p. 155.

Jankowski, Joseph, Chicago, Ill. Salve for cold in the head and chest, sore throat, &c. No. 145,629; Aug. 2; v. 289; p. 166.

Jinshichi, Kato, Kyoto, Japan. Prepared medicine. No. 138,320; Aug. 2; v. 289; p. 154.

Jones, Cumberland F., Chicago, Ill. Medicines. No. 132,533; Aug. 2; v. 289; p. 152.

Josephine Chocolates Limited, London, England. Chocolate. No. 139,081; Aug. 2; v. 289; p. 155.

Kahn Tailoring Company, Indianapolis, Ind. Men's clothes comprising coats, vests, and trousers. No. 139,286; Aug. 2; v. 289; p. 155.

Kelsall & Kemp Limited, Rochdale, England. Flannel, woolen cloths, haircloth, &c., in the piece. No. 141,117; Aug. 2; v. 289; p. 156.

Kiehle, Louis C., Baltimore, Md. Combustible oil for intensifying liquid fuel used in internal-combustion engines. No. 149,405; Aug. 2; v. 289; p. 176.

Klein, Joseph M., New York, N. Y. Men's and boys' wearing-apparel in one, two, and three piece garments. No. 142,887; Aug. 12; v. 289; p. 158.

Koellisch & Fortmann, Inc., New York, N. Y. Pickled, dried, salted, smoked, and canned fish. No. 138,258; Aug. 2; v. 289; p. 154.

Koenig, Harry A., Philadelphia, Pa. Fuel-economizers—namely, air-feeding devices for coal and gas stoves and furnaces. No. 144,337; Aug. 2; v. 289; p. 162.

Kolynos Company, The, New Haven, Conn. Tooth-pastes, antiseptic solution, and germicidal disinfectant. No. 149,407; Aug. 2; v. 289; p. 176.

Lamborn & Co., New York, N. Y. Belting made from canvas, treated canvas, or leather. No. 133,830; Aug. 2; v. 289; p. 152.

Lauritsen, Thorvald G., Lynn, Mass. Flavor used in browning any food. No. 137,286; Aug. 2; v. 289; p. 154.

Lee, Harry A., Kansas City, Mo. Crank-pin returning or truing tools. No. 146,021; Aug. 2; v. 289; p. 168.

Levy, Walter M., New York, N. Y. Jersey cloth in the piece. No. 133,730; Aug. 2; v. 289; p. 152.

Lightning Sales Corporation, New York, N. Y. Demountable wheel-rims. No. 147,522; Aug. 2; v. 289; p. 174.

Lima Cord Sole & Heel Company, The, Lima, Ohio. Soles and heels made of a combination of rubber and fabric for boots and shoes. No. 145,571; Aug. 2; v. 289; p. 166.

Litchfield Manufacturing Company, The, Waterloo, Iowa. Manure-spreaders and straw-spreaders. No. 146,123; Aug. 2; v. 289; p. 169.

Lundy, Wilson & Company Limited, London, England. Asthmatic papers and cigarettes not containing tobacco, being medicated preparations. No. 126,939; Aug. 2; v. 289; p. 149.

Lunkenheimer Company, The, Cincinnati, Ohio. Valves, cocks, pipe-fittings, nozzles, &c. No. 126,941; Aug. 2; v. 289; p. 149.

McGuire, Luke P., Baltimore, Md. Insect-exterminator. No. 146,326; Aug. 2; v. 289; p. 171.

MacBoyle, James W., Chicago, Ill. Dolls. No. 142,447; Aug. 2; v. 289; p. 158.

MacDonald, Reuben H., Binghamton, N. Y. Remedy for stomach, kidney, liver, bladder, and blood troubles, &c. No. 137,288; Aug. 2; v. 289; p. 154.

Macy, R. H., & Co. Inc., New York, N. Y. Aprons. No. 146,221; Aug. 2; v. 289; p. 169.

Mallory, Albert C., Brooklyn, N. Y. Remedy for indigestion, dyspepsia, headache, &c. No. 144,468; Aug. 2; v. 289; p. 162.

Malt-A-Milk Company of America, Kansas City, Mo. Chocolate malted milk. No. 144,628; Aug. 2; v. 289; p. 163.

Mathews, E. L., Candy Company, Wilmington, N. C. Candy. No. 144,403; Aug. 2; v. 289; p. 162.

May Evelyn Hat Co., New York, N. Y. Hats for girls. No. 146,223; Aug. 2; v. 289; p. 170.

Melba Manufacturing Company, Chicago, Ill. Perfumes, face-powders, toilet water, &c. No. 127,762; Aug. 2; v. 289; p. 150.

Migel, J. A., Inc., New York, N. Y. Silk goods in the piece. No. 149,017; Aug. 2; v. 289; p. 175.

Millen Candy Co. Inc., Utica, N. Y. Cocoanut candy. No. 143,289; Aug. 2; v. 289; p. 159.

Myers, Rodman, San Antonio, Tex. Face-cream. No. 146,026; Aug. 2; v. 289; p. 168.

National Aniline & Chemical Company Incorporated, New York, N. Y. Dyestuffs, certified food-colors, and intermediates. No. 142,229; Aug. 2; v. 289; p. 158.

National Steel Products Company, The, Dayton, Ohio. Shock-absorbers for vehicles. No. 149,021; Aug. 2; v. 289; p. 175.

Noonan, T., & Sons Company, Boston, Mass. Hair-tonic. No. 146,129; Aug. 2; v. 289; p. 169.

Orlando Citrus Growers Association, Orlando, Fla. Fresh citrus fruits—namely, oranges, grapefruit, and tangerines. No. 141,648; Aug. 2; v. 289; p. 157.

Outing Shoe Company, Boston, Mass. Cloth shoes and slippers. No. 146,328; Aug. 2; v. 289; p. 171.

Owen, Seth, Mansfield, Wash. Preparation for treatment of colic and impaction in horses. No. 148,512; Aug. 2; v. 289; p. 175.

Pacific Aluminum Company, Fresno, Calif. Aluminum cooking utensils. No. 138,480; Aug. 2; v. 289; p. 154.

Page & Shaw, Inc., Cambridge, Mass. Chocolate, cocoa powder, and cocoa-butter. No. 143,140; Aug. 2; v. 289; p. 159.

Pearl Coffee Company, The, Akron, Ohio. Coffee. No. 141,128; Aug. 2; v. 289; p. 157.

Penmans Limited, Paris, Ontario, Canada. Knitted underwear, hosiery, sweater, and jersey coats. No. 130,059; Aug. 2; v. 289; p. 151.

Pocahontas Candy Co., Washington, D. C. Candies. No. 143,997; Aug. 2; v. 289; p. 160.

Prescott, J. L., Company, New York, N. Y. Laundry blue. No. 145,017; Aug. 2; v. 289; p. 167.

Pure Food Factory "Hansa," Mamaroneck, N. Y. Bullion cubes, vegetable and beef extracts, &c. No. 143,948; Aug. 2; v. 289; p. 160.

Puritan Ice Cream Co., Newark, N. J. Ice-cream. No. 145,230; Aug. 2; v. 289; p. 164.

Raleigh Smokeless Fuel Company, Beckley, W. Va. Bituminous coal. No. 146,981; Aug. 2; v. 289; p. 173.

Ramspring Bumper Co., Chicago, Ill. Automobile-bumpers. No. 147,641; Aug. 2; v. 289; p. 174.

Regent Knitting Corporation, Syracuse, N. Y. Men's and boys' knitted caps. No. 145,795; Aug. 2; v. 289; p. 167.

Rehn & Tousley, Lima, Ohio. Nutcrackers made of metal. No. 145,081; Aug. 2; v. 289; p. 164.

Reilly, Lincoln L., Foxboro, Mass. Liquid compound for eliminating carbon and increasing power in gas-engines. No. 146,235; Aug. 2; v. 289; p. 170.

Riesener Chocolate Co., San Francisco, Calif. Chocolate candies. No. 141,691; Aug. 2; v. 289; p. 157.

Robbins, George W. D., Pasadena, Calif. Ointment for treatment of hemorrhoids. No. 146,085; Aug. 2; v. 289; p. 168.

Robinson, Eliza A., Fort Wayne, Ind. Medicine for coughs. No. 146,465; Aug. 2; v. 289; p. 172.

Rosenbaum, Tillie, New York, N. Y. Face-lotion. No. 146,141; Aug. 2; v. 289; p. 169.

Rosenfeld, M. C., Company, Boston, Mass. Malt extract used as an ingredient of food. No. 142,033; Aug. 2; v. 289; p. 158.

Sanitary Rubber Novelty Mfg. Co., Chicago, Ill. Rubber pants for infants' wear. No. 146,039; Aug. 2; v. 289; p. 168.

Schwarz, Emil, Chicago, Ill. Wrenches. No. 146,851; Aug. 2; v. 289; p. 172.

Shanklin Manufacturing Company, Springfield, Ill. Acetylene-lamps. No. 144,105; Aug. 2; v. 289; p. 161.

Sky Roll Company, The, Fort Wayne, Ind. Perforated-disk-throwing games. No. 141,811; Aug. 2; v. 289; p. 157.

Snow, Harry M., Kalamazoo, Mich. Steam, hot-water, and hot-air heaters and furnaces using gas or oil. No. 144,253; Aug. 2; v. 289; p. 161.

Stafford, Leslie, La Salle, Ill. Inner-tube-repair kits. No. 145,535; Aug. 2; v. 289; p. 165.

Standard Oil Company, Bayonne, N. J., and New York, N. Y. White mineral oil. No. 148,675; Aug. 2; v. 289; p. 175.

Standard Oil Company, New York, N. Y. Petroleum ether. No. 146,274; Aug. 2; v. 289; p. 170.

(REGISTRATION APPLIED FOR.)

Steppacher, Walter M., & Bro., Inc., Philadelphia, Pa. Children's clothing made of cotton, silk, and woolen fabrics. No. 144,354; Aug. 2; v. 289; p. 162.
Sugar Products Co., New York, N. Y. Molasses. No. 138,693; Aug. 2; v. 289; p. 154.
Superior Lamp Mfg. Co., New York, N. Y. Electric lamps, battery-boxes, &c. No. 135,384; Aug. 2; v. 289; p. 153.
Taylor, Artie N., Mrs., St. Joseph, Mo. Ointment for use in treating the scalp. No. 145,136; Aug. 2; v. 289; p. 164.
Temtor Corn & Fruit Products Co., St. Louis, Mo. Maple-flavor syrup, sorghum with corn-syrup, cherry and blackberry preserves, &c. No. 145,179; Aug. 2; v. 289; p. 164.
Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 141,703; Aug. 2; v. 289; p. 157.
Tournine Company, The, Boston, Mass. Chocolates. No. 146,095; Aug. 2; v. 289; p. 168.
Towle & Surridge, Lynn, Mass. Infants' and children's boots and shoes made wholly or in part of leather and cloth. No. 146,341; Aug. 2; v. 289; p. 171.
"Turmac" Turkish-Macedonian Tobacco Company Arnhem, Netherlands. Leaf-tobaccos, smoking and chewing tobaccos, cigars, cigarettes, &c. No. 141,046; Aug. 2; v. 289; p. 156.
Turner Manufacturing Co., The, Port Washington, Wis. Internal-combustion engines. No. 134,762; Aug. 2; v. 289; p. 152.
United Belt Manufacturing Company, St. Louis, Mo. Leather belting. No. 131,840; Aug. 2; v. 289; p. 151.
United Hosiery Company, New York, N. Y. Hosiery. No. 145,726; Aug. 2; v. 289; p. 166.
Universal Childrens Dress Co. Inc., New York, N. Y. Infants' and children's colored wash-dresses. No. 143,109; Aug. 2; v. 289; p. 159.
Universal Tobacco Machine Co., New York, N. Y. Tobacco-working machinery. No. 145,048; Aug. 2; v. 289; p. 163.
Van Winkle, John H., East Orange, N. J. Teas, coffees, food-flavoring extracts, spices. No. 143,146; Aug. 2; v. 289; p. 159.
Vincennes Candy Co., Inc., Vincennes, Ind. Chocolate creams. No. 141,847; Aug. 2; v. 289; p. 157.
Voy, Alfred F., Rockford, Ill. Fishing-tackle case. No. 144,114; Aug. 2; v. 289; p. 161.
Vulcan Crucible Steel Company, Aliquippa, Pa. Tool-steel. No. 126,665; Aug. 2; v. 289; p. 149.
Wabash Baking Powder Company, Wabash, Ind. Coffee and tea. No. 143,074; Aug. 2; v. 289; p. 159.
Wayne Paper Goods Company, Fort Wayne, Ind. Indoor and lawn horseshoe games. No. 143,306; Aug. 2; v. 289; p. 159.
White, H. C., Company, North Bennington, Vt. Four-wheeled play-wagons and coasters for children. No. 142,681; Aug. 2; v. 289; p. 158.
White, Ernest M., Los Angeles, Calif. Lubricant-deflecting devices for use in connection with internal-combustion engines. No. 146,344; Aug. 2; v. 289; p. 171.
White Heat Products Company, The, West Chester, Pa. Crude abrasive material, crushed abrasive material, (ungraded,) and abrasive grains. No. 145,982; Aug. 2; v. 289; p. 167.
Wolff, Geo., & Co., San Francisco, Calif. Olive-oil. No. 144,168; Aug. 2; v. 289; p. 161.
York Mfg. Co., Saco, Me., and Boston, Mass. Gingham in the piece. No. 147,226; Aug. 2; v. 289; p. 173.
Young, J. S., & Company, Hanover, Pa. Tanning extracts. Nos. 148,473–4; Aug. 2; v. 289; p. 175.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 2D DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrasion-testing machine. G. S. Blankenhorn. No. 1,386,087; Aug. 2; v. 289; p. 25.
Accelerator, Automatic. J. H. Leitch. (Reissue.) No. 15,170; Aug. 2; v. 289; p. 122.
Adding-machine. H. C. Peters. No. 1,386,021; Aug. 2; v. 289; p. 12.
Adding-machine. H. C. Peters. No. 1,386,022; Aug. 2; v. 289; p. 12.
Aerial ropeway on the single-rope system. H. F. H. Shields. No. 1,386,282; Aug. 2; v. 289; p. 64.
Aeroplanes or dirigible aircraft. Device for cooling the motors of. H. R. Guyot. No. 1,386,493; Aug. 2; v. 289; p. 103.
Agricultural and other wheeled machines, Quick-steering mechanism for. J. J. Frawley. No. 1,386,562; Aug. 2; v. 289; p. 116.
Air-coupling, Automatic. E. L. Horton. No. 1,386,338; Aug. 2; v. 289; p. 75.
Aircraft, Alighting-gear of. H. Bolas. No. 1,386,310; Aug. 2; v. 289; p. 69.
Airplanes, Variable-pitch propeller for. C. L. Parker. No. 1,386,274; Aug. 2; v. 289; p. 62.
Ammonium chlorid, Recovering. E. Piron. No. 1,386,278; Aug. 2; v. 289; p. 63.
Amusement device. F. Stroud. No. 1,386,209; Aug. 2; v. 289; p. 49.
Ankle-stay and arch-support, Combined. A. Posner. No. 1,386,531; Aug. 2; v. 289; p. 111.
Antirattler for window-sashes. P. W. Pick. No. 1,386,024; Aug. 2; v. 289; p. 13.
Antiskidding device for vehicle-wheels. W. H. Snyder. No. 1,386,377; Aug. 2; v. 289; p. 81.
Assembling device. E. R. Berry. No. 1,386,585; Aug. 2; v. 289; p. 121.
Atomizer and vaporizer. I. H. Wilsey. No. 1,386,297; Aug. 2; v. 289; p. 66.
Attaching device. T. O. Peterson. No. 1,386,202; Aug. 2; v. 289; p. 48.
Automatic brake. R. E. Dixon. No. 1,386,242; Aug. 2; v. 289; p. 56.
Automatic lowering-machine. A. D. Heyl. No. 1,386,253; Aug. 2; v. 289; p. 58.
Automatic weighing machine. E. H. Craig. No. 1,386,319; Aug. 2; v. 289; p. 71.
Automobile-buffer, Adjustable. G. A. Lyon. No. 1,386,190; Aug. 2; v. 289; p. 46.
Automobile-buffer, Resilient. G. A. Lyon. No. 1,386,186; Aug. 2; v. 289; p. 45.
Automobile-buffer, Resilient. G. A. Lyon. No. 1,386,191; Aug. 2; v. 289; p. 46.
Automobile bumper or buffer device. G. A. Lyon. No. 1,386,189; Aug. 2; v. 289; p. 45.
Automobile chain and lock. P. H. Spoelstra. No. 1,386,442; Aug. 2; v. 289; p. 93.
Automobile control mechanism. D. C. E. Trainor. No. 1,386,213; Aug. 2; v. 289; p. 50.
Automobile-jack. S. Heymann. No. 1,386,499; Aug. 2; v. 289; p. 104.
Automobile vehicle. C. K. Edwards and A. S. Colling. No. 1,386,557; Aug. 2; v. 289; p. 115.
Automobiles, Starting mechanism for. F. Conrad. No. 1,385,983; Aug. 2; v. 289; p. 4.
Awl. J. Danielson. No. 1,386,320; Aug. 2; v. 289; p. 71.
Awning-fixture. C. H. Talley. No. 1,386,446; Aug. 2; v. 289; p. 94.
Axles, Manufacturing. R. G. Housdorfer. No. 1,385,998; Aug. 2; v. 289; p. 7.
Badge-fastener. F. J. Fehn. No. 1,386,096; Aug. 2; v. 289; p. 27.
Bag-tie. C. C. Henderson. No. 1,386,058; Aug. 2; v. 289; p. 20.
Band-brake. V. R. Carlson. No. 1,386,454; Aug. 2; v. 289; p. 96.
Bath-spray. H. F. Loomis. No. 1,386,518; Aug. 2; v. 289; p. 108.
Bathing apparatus, Disassemblable. F. A. Holmes. No. 1,386,176; Aug. 2; v. 289; p. 43.
Batteries and producing same, Electrode element for galvanic. T. A. Edison. No. 1,386,095; Aug. 2; v. 289; p. 27.
Bearing, Ball-. K. W. Heyman. No. 1,386,570; Aug. 2; v. 289; p. 118.
Bearing for pump-shafts, Water-cooled. A. W. Archer. No. 1,386,219; Aug. 2; v. 289; p. 51.
Bearing, Roller, ball, and other. A. H. Hindle, S. W. Savage, A. B. Dabbs, and A. Liddle. No. 1,386,255; Aug. 2; v. 289; p. 59.
Bearing, Thrust-. J. W. Brown, Jr. No. 1,386,491; Aug. 2; v. 289; p. 102.
Bee-smoker. O. W. Shrader. No. 1,386,283; Aug. 2; v. 289; p. 64.
Beverage-mixer. F. G. Schneider. No. 1,386,280; Aug. 2; v. 289; p. 63.
Beverages or for cooling liquids, Appliance for preparing iced. J. B. Mitchell. No. 1,386,520; Aug. 2; v. 289; p. 109.
Binder, Loose-leaf. J. Schade. No. 1,386,428; Aug. 2; v. 289; p. 91.
Block: *See*—
Building-block.
Block-printing machines, Printing-block for. R. G. Jackson. No. 1,386,504; Aug. 2; v. 289; p. 105.
Board: *See*—
Wall-board.
Boats, Steering and propelling mechanism for. P. Copland. No. 1,386,237; Aug. 2; v. 289; p. 55.
Boll-weevil catcher. R. R. Hitt. No. 1,386,502; Aug. 2; v. 289; p. 105.
Bolster, Single-motor. H. J. Murray and W. S. Rugg. No. 1,386,588; Aug. 2; v. 289; p. 122.
Bolt: *See*—
Brick-anchored bolt.
Bolt-tightener. H. B. Clemens. No. 1,386,455; Aug. 2; v. 289; p. 96.
Bookmark. H. C. French. No. 1,385,991; Aug. 2; v. 289; p. 5.
Boot, Kicking-. W. Nelson. No. 1,386,523; Aug. 2; v. 289; p. 109.
Bottle attachment. F. A. Hite. No. 1,386,501; Aug. 2; v. 289; p. 104.
Bottle-capping device. A. C. Massie. No. 1,386,131; Aug. 2; v. 289; p. 34.
Bottle filling and closing machine. K. K. Wright and R. N. Cundall. No. 1,386,299; Aug. 2; v. 289; p. 67.
Bottle-holder. J. A. Brant. No. 1,386,392; Aug. 2; v. 289; p. 84.
Bottle-sealing machine. A. Calleson. No. 1,386,313; Aug. 2; v. 289; p. 70.
Box-filling machine. J. C. Donnelly. No. 1,386,243; Aug. 2; v. 289; p. 56.
Box-making machine. A. J. Evers. No. 1,385,988; Aug. 2; v. 289; p. 5.
Boxes, Making. H. B. Smith. No. 1,386,374; Aug. 2; v. 289; p. 81.
Brace: *See*—
Shoulder and body brace.
Bracket: *See*—
Lamp-bracket.
Bracket and fastener, Combined. S. Goldner. No. 1,386,468; Aug. 2; v. 289; p. 98.
Braiding-machines, Strand-guide for. A. Petersen. No. 1,386,071; Aug. 2; v. 289; p. 22.
Brake: *See*—
Automatic brake. Band-brake.
Brake for overhead carriers. P. M. Hassler. No. 1,386,496; Aug. 2; v. 289; p. 103.
Brake mechanism. J. P. Fegely. No. 1,386,559; Aug. 2; v. 289; p. 116.
Braking device. G. W. Kuenneth. No. 1,386,120; Aug. 2; v. 289; p. 31.
Brick-anchored bolt. J. K. Green. No. 1,386,402; Aug. 2; v. 289; p. 86.
Brick-kiln construction. J. T. Pokorny. No. 1,386,530; Aug. 2; v. 289; p. 110.
Bricks, Machine for producing hollow. B. O. W. Hesselman and O. G. M. Mattsson. No. 1,386,404; Aug. 2; v. 289; p. 87.
Brine, Treating. H. H. Dow. No. 1,386,244; Aug. 2; v. 289; p. 56.
Brush, Rotary fountain-. L. H. Hargis. No. 1,386,568; Aug. 2; v. 289; p. 118.
Building-block. A. H. Carrier. No. 1,386,314; Aug. 2; v. 289; p. 70.
Building construction. H. E. Marks and W. R. Frazier. No. 1,386,130; Aug. 2; v. 289; p. 34.
Building-felt or construction material. R. P. Perry. No. 1,386,277; Aug. 2; v. 289; p. 63.
Bumper. H. Dotzer and S. G. Barnard. No. 1,386,452; Aug. 2; v. 289; p. 95.
Burette, Direct-reading. A. M. Jackson. No. 1,386,571; Aug. 2; v. 289; p. 118.
Burner: *See*—
Hydrocarbon-burner.

Burner for liquid fuel. P. Lucas. No. 1,386,267; Aug. 2; v. 289; p. 61.
Button and buckle, One-piece. E. A. Eggmuller and L. D. Huggins. No. 1,386,339; Aug. 2; v. 289; p. 75.
Cabinet. T. J. Hile. No. 1,386,500; Aug. 2; v. 289; p. 104.
Cabinet for tympanum-phonographs. E. A. Widmann. No. 1,386,040; Aug. 2; v. 289; p. 16.
Cable-railways, Traction system for. S. A. Rogers. No. 1,386,533; Aug. 2; v. 289; p. 111.
Cable-railways, Traction system for. S. A. Rogers. No. 1,386,534; Aug. 2; v. 289; p. 111.
Cameras, Tripod for. R. W. Pittman. No. 1,386,025; Aug. 2; v. 289; p. 13.
Cant-slip wrench. G. Sibbald. No. 1,386,136; Aug. 2; v. 289; p. 35.
Car and train-pipe coupling. T. R. Brown. No. 1,386,235; Aug. 2; v. 289; p. 54.
Car-braking mechanism, Automatic. L. Berk. No. 1,386,488; Aug. 2; v. 289; p. 102.
Car-check holder, Coal-. J. B. Sparks. No. 1,386,378; Aug. 2; v. 289; p. 81.
Car, Drying-kiln. P. A. Meehan. No. 1,386,013; Aug. 2; v. 289; p. 10.
Car-motor mounting. H. J. Murray and W. S. Rugg. No. 1,386,586; Aug. 2; v. 289; p. 121.
Car partition, Stock-. R. Miller. No. 1,386,419; Aug. 2; v. 289; p. 90.
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Cars and their loads, Means for straightening. A. C. Hinckley. No. 1,386,175; Aug. 2; v. 289; p. 42.
Cars at loading-points, Means for controlling railway-. F. L. Fleming. No. 1,386,560; Aug. 2; v. 289; p. 116.
Carbon-remover. G. D. Hoover. No. 1,386,337; Aug. 2; v. 289; p. 75.
Carbon-remover. G. Toroosian. No. 1,386,385; Aug. 2; v. 289; p. 83.
Carburetor. W. R. Clark. No. 1,386,238; Aug. 2; v. 289; p. 55.
Carbureter. W. W. Weeks. No. 1,386,036; Aug. 2; v. 289; p. 15.
Case: *See*—
Sheet-metal gear-case.
Caster. C. R. P. Gardner and H. Parker. No. 1,386,250; Aug. 2; v. 289; p. 58.
Caster, Adjustable. W. A. Claassen. No. 1,386,317; Aug. 2; v. 289; p. 71.
Casting. W. Leahy. No. 1,386,516; Aug. 2; v. 289; p. 106.
Catalyst, Making a. A. L. Davis and K. D. Jacob. No. 1,386,555; Aug. 2; v. 289; p. 115.
Cellulose compound, Non-inflammable. W. G. Lindsay. No. 1,386,576; Aug. 2; v. 289; p. 119.
Centrifugal machine. T. A. Bryson. No. 1,385,982; Aug. 2; v. 289; p. 4.
Centrifugal machines, Means for excluding dirt and liquid from bearings and driving mechanism of. M. Leitch. No. 1,386,122; Aug. 2; v. 289; p. 32.
Centrifugal machines, Means for excluding dirt and liquid from bearings and driving mechanism of. B. R. Wright. No. 1,386,148; Aug. 2; v. 289; p. 37.
Chain-connector. T. W. Olson and A. Iverson. No. 1,386,273; Aug. 2; v. 289; p. 62.
Check-protector. F. E. Bothe. No. 1,386,535; Aug. 2; v. 289; p. 111.
Check-writer. C. G. Tiefel. No. 1,386,383; Aug. 2; v. 289; p. 82.
Check-writing machine. A. M. Ward. No. 1,386,479; Aug. 2; v. 289; p. 100.
Chemical-mixing device. E. F. Mercer. No. 1,386,519; Aug. 2; v. 289; p. 108.
Chlorhydrin, Manufacture of. W. E. Kirst. No. 1,386,118; Aug. 2; v. 289; p. 31.
Cigarette-holder. C. R. Haney. No. 1,386,494; Aug. 2; v. 289; p. 103.
Circuit-interrupter. J. N. Mahoney and W. M. Austin. No. 1,386,010; Aug. 2; v. 289; p. 9.
Circuit-interrupter. J. N. Mahoney and J. B. MacNeill. No. 1,386,011; Aug. 2; v. 289; p. 9.
Circuit-interrupter. C. C. Whittaker. No. 1,386,039; Aug. 2; v. 289; p. 16.
Circuit-interrupting device. C. T. Allcutt. No. 1,385,980; Aug. 2; v. 289; p. 3.
Citrus-fruit-juice extractor. G. B. Carney. No. 1,386,552; Aug. 2; v. 289; p. 115.
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Welding-clamp.
Clipping device. W. Gower. No. 1,386,470; Aug. 2; v. 289; p. 99.
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Closure-lifter. W. Smith. No. 1,386,208; Aug. 2; v. 289; p. 49.
Clothes-drying apparatus. R. N. Perovich. No. 1,386,199; Aug. 2; v. 289; p. 47.
Clutch mechanism. A. B. Fowler. No. 1,386,054; Aug. 2; v. 289; p. 19.
Coating composition and making same. M. I. Strauss. No. 1,386,380; Aug. 2; v. 289; p. 82.
Cocoa waste, Treatment of. E. de Grousseau and A. Vicengne. No. 1,386,166; Aug. 2; v. 289; p. 41.
Collar fastener, Soft-. L. Reiter. No. 1,386,424; Aug. 2; v. 289; p. 91.
Comb and brush, Combination. H. A. Lund. No. 1,386,344; Aug. 2; v. 289; p. 76.
Combination-wrench. W. W. McGowan, W. A. Heller, and S. J. Tierney. No. 1,386,345; Aug. 2; v. 289; p. 76.
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Valve-springs, Machine for compressing. G. C. Hill and F. Cooper. No. 1,386,334; Aug. 2; v. 289; p. 74.
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Vaporizing apparatus. C. W. Snyder. No. 1,386,376; Aug. 2; v. 289; p. 81.
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Water-heaters, Gas-shut-off control for. O. Schwimmer. No. 1,386,370; Aug. 2; v. 289; p. 80.
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Watermarking device. F. P. Klund. No. 1,386,411; Aug. 2; v. 289; p. 88.
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Weeder attachment. C. H. Adams. No. 1,386,483; Aug. 2; v. 289; p. 101.
Weeding implement. S. Tausch. No. 1,386,141; Aug. 2; v. 289; p. 36.
Welding-clamp, Universal. R. Cowan. No. 1,386,318; Aug. 2; v. 289; p. 71.
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Metallic wheel. Sprocket gear-wheel.
Motor-vehicle wheel. Vehicle-wheel.
Wheel. T. G. Dade. No. 1,386,164; Aug. 2; v. 289; p. 40.
Wheel-chain-tightening tool. Z. A. Lavoie. No. 1,386,413; Aug. 2; v. 289; p. 89.
Wheel, Combination roller and ball bearing. J. L. Chesnutt. No. 1,386,160; Aug. 2; v. 289; p. 39.
Wheel for machines moving over soft ground, Driving-. J. G. Schulz. No. 1,386,281; Aug. 2; v. 289; p. 63.
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Wheel-rim, Demountable. N. Schenk. No. 1,386,368; Aug. 2; v. 289; p. 80.
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Wire-grooving machine. P. F. Butterfield. No. 1,386,156; Aug. 2; v. 289; p. 39.
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Wrench. M. Belcher. No. 1,386,229; Aug. 2; v. 289; p. 53.
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Wrench. A. B. Heimbach. No. 1,385,994; Aug. 2; v. 289; p. 6.
Wrench. J. Zilliox. No. 1,386,217; Aug. 2; v. 289; p. 51.
Writing and drawing apparatus. J. G. Hendrickson. No. 1,386,332; Aug. 2; v. 289; p. 74.
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Automobile bumper-bar. L. P. Halladay. No. 58,565; Aug. 2; v. 289; p. 131.
Automobiles, Foot-mat frame for. F. P. Livingston. No. 58,606; Aug. 2; v. 289; p. 138.
Automobiles, Foot-scraper for. F. P. Livingston. No. 58,605; Aug. 2; v. 289; p. 138.
Baby-carriages, Body for. J. R. Craig. No. 58,540; Aug. 2; v. 289; p. 128.
Badge. E. C. McUpson. No. 58,611; Aug. 2; v. 289; p. 139.
Bark. M. B. Cusick. No. 58,550; Aug. 2; v. 289; p. 128.
Brooch. B. B. Gunnoe. No. 58,564; Aug. 2; v. 289; p. 131.
Button, badge, or pin. G. Walter. No. 58,649; Aug. 2; v. 289; p. 146.
Button or badge. F. A. Thill. No. 58,642; Aug. 2; v. 289; p. 145.
Can. I. C. Popper. No. 58,628; Aug. 2; v. 289; p. 142.
Card, Display-. S. Sampson. No. 58,631; Aug. 2; v. 289; p. 143.
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Chair. J. H. Dodson. No. 58,554; Aug. 2; v. 289; p. 129.
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Cover. S. Geisman. No. 58,562; Aug. 2; v. 289; p. 130.
Dictation-machines, Correction-indicator for. G. W. Beadle. No. 58,537; Aug. 2; v. 289; p. 125.
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Doll. F. Kaupmann, Jr. Nos. 58,574–5; Aug. 2; v. 289; p. 133.
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Electrical generator. Casing for an. R. I. Frost. No. 58,560; Aug. 2; v. 289; p. 130.
Elevator-signal. P. S. Van Bloem. Nos. 58,643–5; Aug. 2; v. 289; p. 145.
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Files, Hand-grip for. J. L. Osgood. Nos. 58,620–3; Aug. 2; v. 289; pp. 140–1.
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Gem-setting. J. W. Mayer. No. 58,609; Aug. 2; v. 289; p. 138.
Glass goblet or similar article of manufacture. J. O. Baida. No. 58,534; Aug. 2; v. 289; p. 124.
Glove. E. Perrone. No. 58,627; Aug. 2; v. 289; p. 142.
Gum-package-dispensing receptacle. T. E. Crecelius. No. 58,545; Aug. 2; v. 289; p. 127.
Handbag, Lady's. A. C. Fisher. No. 58,558; Aug. 2; v. 289; p. 129.
Heel-rest. W. E. Sanders. No. 58,632; Aug. 2; v. 289; p. 143.
Hobbyhorse. B. and L. Shinn. No. 58,635; Aug. 2; v. 289; p. 143.
Jar. J. M. Luchessa. No. 58,607; Aug. 2; v. 289; p. 138.
Jewel-mounting, Pronged setting for a. J. Kreisler. No. 58,601; Aug. 2; v. 289; p. 137.
Jewelry—namely, finger-ring. I. H. Lapidus. No. 58,603; Aug. 2; v. 289; p. 137.
Knitted cap. E. N. Joha. No. 58,573; Aug. 2; v. 289; p. 132.
Lamp-stand. J. G. Fitzgerald. No. 58,559; Aug. 2; v. 289; p. 129.
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Phonograph-cabinet. J. Wolff. Nos. 58,655–6; Aug. 2; v. 289; p. 147.
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Phonograph-case. J. M. Waddell. Nos. 58,647–8; Aug. 2; v. 289; p. 146.
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Receptacle, Sifter-top. M. Wolf. No. 58,654; Aug. 2; v. 289; p. 147.
Rocker. J. H. Dodson. No. 58,555; Aug. 2; v. 289; p. 129.
Sign. O. F. Funk. No. 58,561; Aug. 2; v. 289; p. 130.
Sound-box casing. W. G. Morse. No. 58,615; Aug. 2; v. 289; p. 140.
Staple-puller. O. Hermanson. No. 58,569; Aug. 2; v. 289; p. 132.
Statuette, watch-fob, emblem, badge, radiator-cap. M. Marston. No. 58,608; Aug. 2; v. 289; p. 138.
Sterilizer. M. Blickman. No. 58,540; Aug. 2; v. 289; p. 126.
Surgical mirror. A. A. Anzell. No. 58,533; Aug. 2; v. 289; p. 124.
Talcum-powder can. H. Goldberg. No. 58,563; Aug. 2; v. 289; p. 130.
Talking-machine. J. A. Davis. No. 58,552; Aug. 2; v. 289; p. 128.
Talking-machines, Turntable for. J. A. Davis. No. 58,553; Aug. 2; v. 289; p. 128.
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Tire-tread. H. W. Kugler. No. 58,602; Aug. 2; v. 289; p. 137.
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Toothpick-vender. M. Wilson. No. 58,653; Aug. 2; v. 289; p. 147.
Toy. F. Strauss. No. 58,638; Aug. 2; v. 289; p. 144.
Tractor, Transmission-case for a. C. T. Fenton. No. 58,626; Aug. 2; v. 289; p. 142.
Tray, Box-. M. G. Becker. No. 58,538; Aug. 2; v. 289; p. 125.
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Vehicles, Direction-indicator for. G. E. Bates. No. 58,536; Aug. 2; v. 289; p. 125.
Vehicles, Face-plate for combination indicating instruments for motor-driven. B. H. Anibal. No. 58,230; Aug. 2; v. 289; p. 124.
Vehicles, Face-plate for switch mechanism for motor-driven. B. H. Anibal. No. 58,531; Aug. 2; v. 289; p. 124.
Vehicles, Instrument-board for motor-. B. H. Anibal. No. 58,532; Aug. 2; v. 289; p. 124.
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Wedding-ring. C. B. Namiot. No. 58,617; Aug. 2; v. 289; p. 140.

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Adding machines. Federal Adding Machine Corporation. No. 145,504; Aug. 2; v. 289; p. 184.
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Automobiles. Stevens-Duryea, Inc. No. 145,463; Aug. 2; v. 289; p. 182.
Automotive tools and equipment. Dearborn Equipment Co. No. 145,346; Aug. 2; v. 289; p. 178.
Balls, Golf-. Worthington Ball Company. No. 145,492; Aug. 2; v. 289; p. 182.
Bedspreads. Marshall Field & Company. No. 145,414; Aug. 2; v. 289; p. 180.
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Belts and belting made of rubber combined with fabric. B. F. Goodrich Company. No. 145,505; Aug. 2; v. 289; p. 184.
Belts, Fabric. Endless Belt Corporation. No. 145,352; Aug. 2; v. 289; p. 178.
Beverage, Malt. Inner Circle Corporation. No. 145,382; Aug. 2; v. 289; p. 179.
Beverage, Maltless, non-cereal. Northwestern Extract Co. No. 145,515; Aug. 2; v. 289; p. 186.
Beverage, Non-alcoholic fruit. D. N. Goldberg. No. 145,370; Aug. 2; v. 289; p. 179.
Beverage, Non-alcoholic maltless. L. Schiller. No. 145,453; Aug. 2; v. 289; p. 181.
Biscuit. National Biscuit Company. No. 145,423; Aug. 2; v. 289; p. 180.
Booklets, Monthly. A. S. J. Gammon. No. 145,365; Aug. 2; v. 289; p. 179.
Brassières and bandeaux. H & W Company. No. 145,507; Aug. 2; v. 289; p. 184.
Bread and rolls. Campbell Baking Company. No. 145,500; Aug. 2; v. 289; p. 184.
Bread, Cable-Draper Baking Company. No. 145,329; Aug. 2; v. 289; p. 177.
Bread. F. Keiser. No. 145,393; Aug. 2; v. 289; p. 179.
Building material. Wheeling Corrugating Company. No. 145,486; Aug. 2; v. 289; p. 182.
Bureau and table scarfs, blankets, mats, &c. F. A. Patrick & Co. No. 145,433; Aug. 2; v. 289; p. 181.
Butter-scotch. Page & Shaw. No. 145,429; Aug. 2; v. 289; p. 181.
Cabinets and desks, Steel filing. Metal Office Furniture Co. No. 145,512; Aug. 2; v. 289; p. 185.
Cake. M. Rosenthal. No. 145,448; Aug. 2; v. 289; p. 181.

Cambric muslin in the piece. Marshall Field & Company. No. 145,410; Aug. 2; v. 289; p. 180.
Camera-lenses. Hanovia Chemical and Manufacturing Company. No. 145,377; Aug. 2; v. 289; p. 179.
Candies, Chocolate-coated. Davidson Brothers Co. No. 145,345; Aug. 2; v. 289; p. 178.
Candy. B. R. Camp. No. 145,330; Aug. 2; v. 289; p. 177.
Candy. Euclid Candy Company, The. No. 145,358; Aug. 2; v. 289; p. 178.
Candy. Hershey Chocolate Co. No. 145,378; Aug. 2; v. 289; p. 179.
Candy. Kibbe Brothers Company. No. 145,395; Aug. 2; v. 289; p. 180.
Candy and chocolate-bars. J. Kotsovetes. No. 145,397; Aug. 2; v. 289; p. 180.
Candy, Chocolate. Schuler Chocolate Factory. No. 145,456; Aug. 2; v. 289; p. 181.
Candy, Old-fashioned taffy. Dilling & Company. No. 145,348; Aug. 2; v. 289; p. 178.
Canned corn. Warrensburg Canning Company. No. 145,481; Aug. 2; v. 289; p. 182.
Canned fruits and vegetables. San Benito County Canning Co. No. 145,450; Aug. 2; v. 289; p. 181.
Canned fruits, vegetables, &c., and wheat-flour. Bech, Van Sicien & Co. No. 145,321; Aug. 2; v. 289; p. 177.
Canned fruits, vegetables, soups, tea, coffee, &c. Johnson Educator Food Co. No. 145,391; Aug. 2; v. 289; p. 179.
Canned sardines. Booth Fisheries Sardine Company. No. 145,324; Aug. 2; v. 289; p. 177.
Canned vegetables and fruits. San Bernardino Canning Co. No. 145,451; Aug. 2; v. 289; p. 181.
Carbureters for internal-combustion engines. Charles H. Pugh Limited. No. 145,441; Aug. 2; v. 289; p. 181.
Carriages, Baby-. Sidway Mercantile Company. No. 145,523; Aug. 2; v. 289; p. 186.
Cereal breakfast food. Kellogg Toasted Corn Flake Co. No. 145,422; Aug. 2; v. 289; p. 180.
Cheese. Lemann & Cie. No. 145,399; Aug. 2; v. 289; p. 180.
Chocolate. N. V. Stoom Chocolade and Cacaofabriek "Kwatta." No. 145,467; Aug. 2; v. 289; p. 182.
Chocolate, cocoa-powder, and cocoa-butter. Page & Shaw. No. 145,430; Aug. 2; v. 289; p. 181.
Chocolates. D. Auerbach & Sons. No. 145,317; Aug. 2; v. 289; p. 177.
Chocolates and candy. Patterson Candy Co. No. 145,434; Aug. 2; v. 289; p. 181.
Cigars. E. F. Requard. Nos. 145,444–5; Aug. 2; v. 289; p. 181.
Clamp for electric conductors, Ground-. Alloy Metal Stamping & Specialty Company. No. 145,307; Aug. 2; v. 289; p. 177.
Cleaning and scouring preparation. Fitzpatrick Bros. No. 145,360; Aug. 2; v. 289; p. 178.
Cleaning compound. J. H. Parsons Chemical Company. No. 145,432; Aug. 2; v. 289; p. 181.
Clothing, Articles of. Guthrie & Company. No. 145,375; Aug. 2; v. 289; p. 179.
Clothing, Articles of. John H. Leich Co. No. 145,398; Aug. 2; v. 289; p. 180.
Coffee. F. S. Ainsa Company. No. 145,305; Aug. 2; v. 289; p. 177.
Coffee. Cardona, Morey and Craig. No. 145,332; Aug. 2; v. 289; p. 178.
Coils, Electric. Commercial Radio Co. of America. No. 145,340; Aug. 2; v. 289; p. 178.
Cotton and silk fabrics in the piece and strip form. Columbia Ribbon & Carbon Mfg. Co. No. 145,338; Aug. 2; v. 289; p. 178.
Cotton piece goods. A. L. Reid & Co. No. 145,518; Aug. 2; v. 289; p. 186.
Cotton duck in the piece. Marshall Field & Company. No. 145,411; Aug. 2; v. 289; p. 180.
Cotton piece goods. Lonsdale Company. No. 145,403; Aug. 2; v. 289; p. 180.
Crackers, biscuits, candy, &c. Bishop & Company. No. 145,323; Aug. 2; v. 289; p. 177.
Draperies in the piece or bolt. Burnham-Munger-Root Dry Goods Company. No. 145,328; Aug. 2; v. 289; p. 177.
Dress-trimmings, Certain named. Maass & Kemper. No. 145,406; Aug. 2; v. 289; p. 180.
Dyes. G. F. Romano. No. 145,520; Aug. 2; v. 289; p. 186.
Electrical ammeters. H. I. Shire. No. 145,457; Aug. 2; v. 289; p. 181.
Electric-lighting fixtures. Commercial Excelite Co. No. 145,339; Aug. 2; v. 289; p. 178.
Fabrics in piece, woven, knitted, &c. Cheney Brothers. No. 145,334; Aug. 2; v. 289; p. 178.
Feed, Dairy. Josey-Miller Co. No. 145,392; Aug. 2; v. 289; p. 179.
Feed, Dairy. Pease & Dwyer Co. No. 145,435; Aug. 2; v. 289; p. 181.
Feed, Stock. Temtor Corn & Fruit Products Co. No. 145,526; Aug. 2; v. 289; p. 187.
Flannel, pillow-tubing, cotton duck, Canton-. Marshall Field & Company. No. 145,412; Aug. 2; v. 289; p. 180.
Flatirons, Electric. Chicago Flexible Shaft Company. No. 145,335; Aug. 2; v. 289; p. 178.
Flavoring compound. Eng-Skell Company. No. 145,353; Aug. 2; v. 289; p. 178.
Flour, Self-rising. Cape County Milling Company. No. 145,331; Aug. 2; v. 289; p. 178.
Flour, Prepared cake-. Sunset Food Products Co. No. 145,468; Aug. 2; v. 289; p. 182.
Flours, Grahams, cornmeal, Choice bran-. O. A. Beam & Son. No. 145,319; Aug. 2; v. 289; p. 177.
Flour, Wheat-. Blair Milling Co. No. 145,497; Aug. 2; v. 289; p. 183.
Flour, Wheat-. Clyde Milling & Elevator Co. No. 145,336; Aug. 2; v. 289; p. 178.
Flour, Wheat-. Hannibal Milling Co. No. 145,376; Aug. 2; v. 289; p. 179.
Flour, Wheat-. Ismert-Hincke Milling Company. No. 145,383; Aug. 2; v. 289; p. 179.
Flour, Wheat-. Ismert-Hincke Milling Company, The. Nos. 145,384–8; Aug. 2; v. 289; p. 179.
Food, Poultry. Brown Company. No. 145,326; Aug. 2; v. 289; p. 177.
Food in granulated form, Tonic. A. Peyroux & Cie. No. 145,437; Aug. 2; v. 289; p. 181.
Foods, Certain. Bussman Wormser & Co. No. 145,491; Aug. 2; v. 289; p. 182.
Foods, Cereal. A. M. de Servais. No. 145,315; Aug. 2; v. 289; p. 177.
Foods, Cereal. Walton Milling Company. No. 145,476; Aug. 2; v. 289; p. 182.
Foodstuffs—namely, cake. Baer Baking Co. No. 145,318; Aug. 2; v. 289; p. 177.
Fruits, Fresh citrus. Whittier Citrus Association. No. 145,489; Aug. 2; v. 289; p. 182.
Game, Parlor. W. S. Loring. No. 145,402; Aug. 2; v. 289; p. 180.
Ginger-ale. Schoenhofen Company. No. 145,454; Aug. 2; v. 289; p. 181.
Ginger cordial, Non-alcoholic. Cyco Medicine Company. No. 145,344; Aug. 2; v. 289; p. 178.
Glass lens for headlights. Flexo Lens Protector Company. No. 145,361; Aug. 2; v. 289; p. 178.
Graphite, Powdered and flaked. J. G. Allen. No. 145,494; Aug. 2; v. 289; p. 183.
Hair-nets. A. A. West. No. 145,529; Aug. 2; v. 289; p. 187.
Hardwood dimension-stock. J. Elwood Cox Mfg. Co. No. 145,342; Aug. 2; v. 289; p. 178.
Ice-cream cones. Cone Company of America. No. 145,341; Aug. 2; v. 289; p. 178.
Ice-cream freezers, &c. Miller Pasteurizing Machine Company. No. 145,513; Aug. 2; v. 289; p. 185.
Ice-cream, frozen dainties, cake, &c. G. F. Kempen. No. 145,394; Aug. 2; v. 289; p. 179.
Ice-cream, Preparations used in the manufacture of. Ogden Wholesale Drug Co. No. 145,428; Aug. 2; v. 289; p. 180.
Ice-cream, water-ices, and sherbets. Gloria Ice Cream Company. No. 145,369; Aug. 2; v. 289; p. 179.
Insoling, Fabricated. Frank W. Whitcher Company. Nos. 145,530–1; Aug. 2; v. 289; p. 187.
Jam, jelly, &c. Welch Grape Juice Company. No. 145,478; Aug. 2; v. 289; p. 182.
Jam, jelly, &c. Welch Grape Juice Company. Nos. 145,479–80; Aug. 2; v. 289; p. 182.
Jar lids or caps, Fruit-. Schram Glass Manufacturing Co. No. 145,521; Aug. 2; v. 289; p. 186.
Jellies, fruit preserves, jams, and sweet pickles. W. M. Spencer Sons Co. No. 145,462; Aug. 2; v. 289; p. 182.
Journal, Monthly. U. S. Bottlers Machinery Co. No. 145,472; Aug. 2; v. 289; p. 182.
Labels, Transparent meat-. Chemical Paper Company. No. 145,333; Aug. 2; v. 289; p. 178.
Laces and embroideries in the piece. Majestic Lace and Emby. Works. No. 145,408; Aug. 2; v. 289; p. 180.
Leather and balata beltings. Henry F. Cockill & Sons Limited. No. 145,337; Aug. 2; v. 289; p. 178.
Leather-dressing. Whittemore Brothers, Corporation. No. 145,487; Aug. 2; v. 289; p. 182.
Macaroni. Alexander Gallerani Company. No. 145,363; Aug. 2; v. 289; p. 178.
Macaroni. Alexander Gallerani Company. No. 145,364; Aug. 2; v. 289; p. 179.
Macaroni and vermicelli. Liberty Maccheroni Mfg. Co. No. 145,400; Aug. 2; v. 289; p. 180.
Magazine, Monthly. W. A. Radford. No. 145,442; Aug. 2; v. 289; p. 181.
Magazines and trade publications. Aldan Publishing Company. No. 145,306; Aug. 2; v. 289; p. 177.
Malt extract. I. A. Dorfmann. No. 145,503; Aug. 2; v. 289; p. 184.
Malt extracts. Malt-Diastase Company. No. 145,409; Aug. 2; v. 289; p. 180.
Medicinal preparations. Dr. C. Gee Wo. No. 145,367; Aug. 2; v. 289; p. 179.
Metal-polish. Bell Products Co. No. 145,322; Aug. 2; v. 289; p. 177.
Micrometer-calipers. J. T. Slocomb Co. No. 145,460; Aug. 2; v. 289; p. 181.
Milk, Evaporated. Henningsen Produce Company. No. 145,506; Aug. 2; v. 289; p. 184.
Musical-instruction outfit. F. E. Hughey. No. 145,374; Aug. 2; v. 289; p. 179.
Muslin in the piece. Marshall Field & Company. No. 145,413; Aug. 2; v. 289; p. 180.
Oleomargarin. Beatrice Creamery Company. No. 145,320; Aug. 2; v. 289; p. 177.
Oleomargarin. B. Stilling-Anderson, Inc. No. 145,404; Aug. 2; v. 289; p. 182.
Oleomargarin. H. P. Wilkins Co. No. 145,490; Aug. 2; v. 289; p. 182.
Oil and grease cups. Bowen Products Corporation. No. 145,325; Aug. 2; v. 289; p. 177.

Oil pressed from corn, Salad-. A. Gastun & Company. No. 145,366; Aug. 2; v. 289; p. 179.
Oils for cooking purposes and solidified fats for food purposes, Cotton-seed. Globe Cotton Oil Mills. No. 145,368; Aug. 2; v. 289; p. 179.
Oils, Vegetable and edible. American Nut and Seed Oil Corporation. No. 145,309; Aug. 2; v. 289; p. 177.
Paper, Roofing-. C. B. Hewitt & Brothers. No. 145,380; Aug. 2; v. 289; p. 179.
Paste preparation having detergent and healing properties. Magic Kleno Manufacturing Co. No. 145,407; Aug. 2; v. 289; p. 180.
Pharmaceutical preparations. H. P. Clearwater. No. 145,501; Aug. 2; v. 289; p. 184.
Photographic machinery, cameras, and motion-picture films. Erbograph Company. No. 145,357; Aug. 2; v. 289; p. 178.
Picture-projecting machine and films therefor, Motion-. Pilgrim Pictures Company. No. 145,439; Aug. 2; v. 289; p. 181.
Picture-projecting machines and parts thereof, Motion-. Graphoscope Company, The. No. 145,372; Aug. 2; v. 289; p. 179.
Piece-goods, carpets, rugs, &c. United States and South America Corporation. No. 145,473; Aug. 2; v. 289; p. 182.
Powder, Cleaning and washing. W. H. Westmoreland. Nos. 145,482–3; Aug. 2; v. 289; p. 182.
Preparation for taking grease and dirt out of leather and woven power-transmission belts, &c. Renovatol Company. No. 145,443; Aug. 2; v. 289; p. 181.
Preparation for preventing the deposit of moisture on show-windows, windshields. R. B. Messinger. No. 145,416; Aug. 2; v. 289; p. 180.
Magazine and certain named publications, Monthly. Ancient and Mystical Order Rosæ Crucis. No. 145,313; Aug. 2; v. 289; p. 177.
Publications, Monthly. W. C. Wheeler. No. 145,484; Aug. 2; v. 289; p. 182.
Puddings and pie-fillings. C. T. Whittier. No. 145,488; Aug. 2; v. 289; p. 182.
Pumps, Power-driven water-supply. Goulds Manufacturing Company. No. 145,371; Aug. 2; v. 289; p. 179.
Radiators, Electric heating-. Simplex Electrical Heating Company. No. 145,458; Aug. 2; v. 289; p. 181.
Ranges and washing machines, Electrical. Wabash Valley Electric Co. No. 145,475; Aug. 2; v. 289; p. 182.
Receptacles and mountings for same. Boyle Manufacturing Company. No. 145,499; Aug. 2; v. 289; p. 183.
Remedy for la grippe and colds. Zerbst Pharmaceutical Co. 145,532; Aug. 2; v. 289; p. 187.
Ribbons in lengths. H. Adler & Bro. No. 145,304; Aug. 2; v. 289; p. 177.
Ring-travelers. National Ring Traveler Co. No. 145,424; Aug. 2; v. 289; p. 180.
Roofing. Simmons Hardware Company. No. 145,524; Aug. 2; v. 289; p. 187.
Root-beer. Schoenhofen Company. No. 145,455; Aug. 2; v. 289; p. 181.
Salad-dressing, vinegar, jellies, &c. San Diego Conserve Company. No. 145,452; Aug. 2; v. 289; p. 181.
Sauce for seasoning food. S. Nagano. No. 145,514; Aug. 2; v. 289; p. 185.
Screens with picture-projecting apparatus. Argus Enterprises, Inc. No. 145,316; Aug. 2; v. 289; p. 177.
Seed, Garden-. Northrup, King & Co. No. 145,425; Aug. 2. v. 289; p. 180.
Service-wagons, buffers, bumpers, wheels, &c. Jarvis and Jarvis. No. 145,389; Aug. 2; v. 289; p. 179.
Shoes for boys and girls. Brown Shoe Company. No. 145,327; Aug. 2; v. 289; p. 177.
Silk crepe piece goods, All-. A. S. Rosenthal Company. No. 145,447; Aug. 2; v. 289; p. 181.
Silk goods in the piece. Marshall Field & Company. No. 145,415; Aug. 2; v. 289; p. 180.
Silk, Thrown. Tynan Throwing Co. No. 145,471; Aug. 2; v. 289; p. 182.
Skin-cleaning material. Oliver Oil-Gas Burner & Machine Company. No. 145,517; Aug. 2; v. 289; p. 186.
Soap. Andrew Jergens Company. No. 145,314; Aug. 2; v. 289; p. 177.
Soap. Procter and Gamble Company. No. 145,440; Aug. 2; v. 289; p. 181.
Soap, Toilet. Saberton Mfg. Co. No. 145,449; Aug. 2; v. 289; p. 181.
Soaps. J. T. Robertson Co. No. 145,446; Aug. 2; v. 289; p. 181.
Soaps. Alfred H. Smith Company. No. 145,461; Aug. 2; v. 289; p. 181.
Spark-plugs. W. L. Phillips. No. 145,438; Aug. 2; v. 289; p. 181.
Spark-plugs. Symms-Brownell Mfg. Co. No. 145,469; Aug. 2; v. 289; p. 182.
Stabilizing or smoothing powder for ice-creams, &c. Eng-Skell Company. No. 145,354; Aug. 2; v. 289; p. 178.
Starters and controllers, Electrical-motor. Industrial Controller Company. No. 145,381; Aug. 2; v. 289; p. 179.
Storage batteries. C. E. Luburg. No. 145,404; Aug. 2; v. 289; p. 180.
Stoves, ovens, stovepipe-elbows, &c. Wheeling Corrugating Company. No. 145,485; Aug. 2; v. 289; p. 182.
Stoves and ranges, Wood, gas, and oil. Anchor Stove & Range Co. No. 145,312; Aug. 2; v. 289; p. 177.
Syrup and root-beer made from such syrup, Root-beer. Richarson Corporation. No. 145,519; Aug. 2; v. 289; p. 186.
Syrup, Malt and hop. H. E. Frees Company. No. 145,362; Aug. 2; v. 289; p. 178.
Syrups. Gray-Juergens Co. No. 145,373; Aug. 2; v. 289; p. 179.
Thermometers, hydrometers, and bygrometers. A. T. Hespe. No. 145,379; Aug. 2; v. 289; p. 179.
Thread and yarn. H. E. Locke & Company. No. 145,510; Aug. 2; v. 289; p. 185.
Ticking, Bed-. Blue Buckle Cotton Mills. No. 145,408; Aug. 2; v. 289; p. 183.
Tiles and terrazzo, Safety-tread. Norton Company. Nos. 145,426–7; Aug. 2; v. 289; p. 180.
Timers and commutators. M-R Company. No. 145,421; Aug. 2; v. 289; p. 180.
Tire casings, Retreads for attachment to the outer surfaces of worn pneumatic-. George W. Eno Rubber Company. No. 145,356; Aug. 2; v. 289; p. 178.
Tire-covers. Crawford Manufacturing Co. No. 145,343; Aug. 2; v. 289; p. 178.
Tire-covers, Flexible fabric. Parker & Waterman Manufacturing Co. No. 145,431; Aug. 2; v. 289; p. 180.
Tire tubes, Automobile-. American Wholesale Corporation. No. 145,311; Aug. 2; v. 289; p. 177.
Tire-tubes and tire-casings, Inner. Sioux City Tire and Manufacturing Company. No. 145,459; Aug. 2; v. 289; p. 181.
Tires and inner tubes. India Tire & Rubber Co. No. 145,508; Aug. 2; v. 289; p. 185.
Tires for automobiles, Rubber. Studebaker Corporation. No. 145,525; Aug. 2; v. 289; p. 187.
Tires made of rubber, Vehicle-. United States Tire Company. No. 145,528; Aug. 2; v. 289; p. 187.
Tires, Rubber-coated-fabric inner. George W. Eno Rubber Company. No. 145,355; Aug. 2; v. 289; p. 178.
Tires, Inner tubing for use in. J. T. McMahon. No. 145,405; Aug. 2; v. 289; p. 180.
Toast. Excelsior Baking Company. No. 145,359; Aug. 2; v. 289; p. 178.
Tobacco, Leaf-. Liggett & Myers Tobacco Co. No. 145,401; Aug. 2; v. 289; p. 180.
Tobacco, Plug-. Larus & Brother Company. No. 145,509; Aug. 2; v. 289; p. 185.
Tobacco, Smoking and chewing. American Tobacco Company. No. 145,310; Aug. 2; v. 289; p. 177.
Toy carpet-sweepers. Midget Novelty Co. Nos. 145,418–9; Aug. 2; v. 289; p. 180.
Toy miniature theater. M. Stoltz. No. 145,466; Aug. 2; v. 289; p. 182.
Toys in the nature of planchettes. H. E. Dill. No. 145,347; Aug. 2; v. 289; p. 178.
Trailers. Texas Wagon Works. No. 145,470; Aug. 2; v. 289; p. 182.
Tripoli flour. American Tripoli Company. No. 145,495; Aug. 2; v. 289; p. 183.
Truck-bodies. Metropolitan Body Company. No. 145,417; Aug. 2; v. 289; p. 180.
Turpentine. Duryea Manufacturing Co. No. 145,350; Aug. 2; v. 289; p. 178.
Typewriters, Photographic. American Desatype Co. No. 145,308; Aug. 2; v. 289; p. 177.
Typewriting-machines and parts. Underwood Typewriter Company. No. 145,527; Aug. 2; v. 289; p. 187.
Underwear for women and children. I. Schweitzer. No. 145,522; Aug. 2; v. 289; p. 186.
Vehicle of the scooter type. Kokomo Specialties Mfg. Co. No. 145,396; Aug. 2; v. 289; p. 180.
Vehicles, Motor-driven. Lorraine Car Co. No. 145,511; Aug. 2; v. 289; p. 185.
Vises, chucks, &c., for metal-working machine tools. J. H. Jerrim. No. 145,390; Aug. 2; v. 289; p. 179.
Wagons, Farm, log, and one-horse. Mogul Wagon Company. No. 145,420; Aug. 2; v. 289; p. 180.
Washing compound, Laundry-. A. E. Petersen. No. 145,436; Aug. 2; v. 289; p. 181.
Waterproof upholstering fabrics. O'Bannon Corporation. No. 145,516; Aug. 2; v. 289; p. 186.
Wheels. Dayton Automotive Wheel Company. No. 145,502; Aug. 2; v. 289; p. 184.
Wheels, Vehicle-. Duodisk Steel Wheel Corporation. No. 145,349; Aug. 2; v. 289; p. 178.
Woolen and cotton piece goods. Walworth Sales Corporation. No. 145,477; Aug. 2; v. 289; p. 182.
Woolen piece goods. F. R. Allmann. No. 145,496; Aug. 2; v. 289; p. 183.
Yarns, Wool, cotton, and silk. L. Stockman & Son. No. 145,465; Aug. 2; v. 289; p. 182.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Abrasive material, crushed, abrasive material, (ungraded,) and abrasive grains, Crude. The White Heat Products Company. No. 145,982; Aug. 2; v. 289; p. 167.
Aprons. R. H. Macy & Co. No. 146,221; Aug. 2; v. 289; p. 169.
Asthmatic papers and cigarettes not containing tobacco. Lundy, Wilson & Company. No. 126,939; Aug. 2; v. 289; p. 149.
Automobile gears and shafting, transmission-gears, &c. Automotive Gear Works. No. 145,781; Aug. 2; v. 289; p. 167.
Automobiles, Bodies and cabs for truck and passenger. Automotive Manufacturers Associates. No. 145,931; Aug. 2; v. 289; p. 167.
Belting, Leather. United Belt Manufacturing Company. No. 131,840; Aug. 2; v. 289; p. 151.
Belting made from canvas, treated canvas, or leather. Lamborn & Co. No. 133,830; Aug. 2; v. 289; p. 152.
Blue, Laundry. J. L. Prescott Company. No. 145,917; Aug. 2; v. 289; p. 167.
Boots and shoes for infants and children. Towle & Burridge. No. 146,341; Aug. 2; v. 289; p. 171.
Brooms for applying stucco. M. P. Andrews. No. 134,291; Aug. 2; v. 289; p. 152.
Bouillon cubes, vegetable and beef extracts in solid and fluid forms, &c. Pure Food Factory "Hansa." No. 143,948; Aug. 2; v. 289; p. 160.
Bumpers, Automobile-. Ramspring Bumper Co. No. 147,641; Aug. 2; v. 289; p. 174.
Candies. Pocahontas Candy Co. No. 143,997; Aug. 2; v. 289; p. 160.
Candies, Chocolate. Riesener Chocolate Co. No. 141,691; Aug. 2; v. 289; p. 157.
Candy. Curtiss Candy Co. No. 145,314; Aug. 2; v. 289; p. 165.
Candy. E. L. Mathews Candy Company. No. 144,403; Aug. 2; v. 289; p. 162.
Candy, Cocoanut. Millen Candy Co. No. 143,289; Aug. 2; v. 289; p. 159.
Canned fish. A/S. Trondhjem Canning and Export Co. No. 140,218; Aug. 2; v. 289; p. 156.
Canned fruits and vegetables. Thomas-Bady Company. No. 141,703; Aug. 2; v. 289; p. 157.
Cattle, calves, swine, goats, sheep, butter, and milk, Live. J. Breuchand. No. 121,615; Aug. 2; v. 289; p. 149. 144,708; Aug. 2; v. 289; p. 163.
Chains. Columbus McKinnon Chain Company. No. 144,708; Aug. 2; v. 289; p. 163.
Chains, loops, rings, staples, hooks, eyebolts, &c., Base-metal. American Chain Company. No. 145,736; Aug. 2; v. 289; p. 166.
Chemicals, medicines, &c. Drug Products Co. No. 127,854; Aug. 2; v. 289; p. 150.
Chocolate. Josephine Chocolates Limited. No. 139,081; Aug. 2; v. 289; p. 155.
Chocolate, cocoa-powder, and cocoa-butter. Page & Shaw. No. 143,140; Aug. 2; v. 289; p. 159.
Chocolate creams. Vincennes Candy Company. No. 141,847; Aug. 2; v. 289; p. 157.
Chocolates. Touraine Company. No. 146,095; Aug. 2; v. 289; p. 168.
Cigars. Henry Clay and Bock & Co. No. 138,752; Aug. 2; v. 289; p. 155.
Clothes for small boys. Charles William Stores, Inc. No. 144,491; Aug. 2; v. 289; p. 162.
Clothing made of cotton, silk, and woolen fabrics, Children's. W. M. Steppacher & Bro. No. 144,354; Aug. 2; v. 289; p. 162.
Coal, Bituminous. Raleigh Smokeless Fuel Company. No. 146,981; Aug. 2; v. 289; p. 173.
Coats, vests, and trousers, for men. Kahn Tailoring Company. No. 139,286; Aug. 2; v. 289; p. 155.
Coffee. Pearl Coffee Company. No. 141,128; Aug. 2; v. 289; p. 157.
Coffee and tea. Wabash Baking Powder Company. No. 143,074; Aug. 2; v. 289; p. 159.
Coffee, Substitute for. L. Donnet. No. 144,852; Aug. 2; v. 289; p. 163.
Cooking utensils, Aluminum. Pacific Aluminum Company. No. 138,480; Aug. 2; v. 289; p. 154.
Cotton piece goods. Amoskeag Manufacturing Company. No. 149,115; Aug. 2; v. 289; p. 176.
Cotton piece goods. N. Fluegelman & Co. No. 146,169; Aug. 2; v. 289; p. 169.
Crank-pin, returning or truing tools. H. A. Lee. No. 146,021; Aug. 2; v. 289; p. 168.
Cream, Face-. R. Myers. No. 146,026; Aug. 2; v. 289; p. 168.
Cream-separators. Charles William Stores, Inc. No. 144,490; Aug. 2; v. 289; p. 162.
Cream, Toilet. J. F. Hejda. No. 142,490; Aug. 2; v. 289; p. 158.
Creams, Liquid and dry face-powders, Face-. E. B. Finlayson. No. 144,518; Aug. 2; v. 289; p. 162.
Cutting-tools. G. C. Goode Company. No. 146,210; Aug. 2; v. 289; p. 169.
Dolls. George Borgfeldt & Co. No. 141,896; Aug. 2; v. 289; p. 158.
Dolls. J. W. MacBoyle. No. 142,447; Aug. 2; v. 289; p. 158.
Dolls, Cut-out. W. Donahey. No. 144,279; Aug. 2; v. 289; p. 162.
Dresses, coats, rompers, bloomers, &c., for children, misses, and juniors. Hanover Mfg. Co. No. 145,402; Aug. 2; v. 289; p. 165.
Dresses, Infants' and children's colored wash-. Universal Childrens Dress Co. No. 143,109; Aug. 2; v. 289; p. 159.
Drills for use in machines, milling-cutters, &c., Twist-. Easterbrook Allcard & Co. No. 136,366; Aug. 2; v. 289; p. 153.
Dyes and dyestuffs. Graselli Chemical Company. Nos. 147,612–18; Aug. 2; v. 289; p. 174.
Dyestuffs. Geigy Company. No. 146,117; Aug. 2; v. 289; p. 168.
Dyestuffs, certified food-colors, and intermediates. National Aniline & Chemical Company. No. 142,229; Aug. 2; v. 289; p. 158.
Engines, Internal-combustion. Turner Manufacturing Co. No. 134,762; Aug. 2; v. 289; p. 152.
Engines, Liquid compound for eliminating carbon and increasing power in gas-. L. L. Reilly. No. 146,235; Aug. 2; v. 289; p. 170.
Engines, Lubricant-deflecting device for internal-combustion. E. M. White. No. 146,344; Aug. 2; v. 289; p. 171.
Fish, Pickled, dried, &c. Koellisch & Fortmann. No. 138,258; Aug. 2; v. 289; p. 154.
Fishing-tackle case. A. F. Voy. No. 144,114; Aug. 2; v. 289; p. 161.
Flannel, woolen cloths, haircloths, &c., in the piece. Kelsall & Kemp. No. 141,117; Aug. 2; v. 289; p. 156.
Flavor used in browning any food. T. G. Lauritsen. No. 137,286; Aug. 2; v. 289; p. 154.
Fruits, Dried and canned. O. A. Harlan & Co. No. 143,048; Aug. 2; v. 289; p. 159.
Fruits, Fresh citrus. Orlando Citrus Growers Association. No. 141,648; Aug. 2; v. 289; p. 157.
Fuel-economizers. H. A. Koenig. No. 144,337; Aug. 2; v. 289; p. 162.
Fuel, Stable mobile. L. W. Bates. No. 133,759; Aug. 2; v. 289; p. 152.
Games, Indoor and lawn horseshoe. Wayne Paper Goods Company. No. 143,306; Aug. 2; v. 289; p. 159.
Games, Parlor baseball. W. J. Ennisson. No. 141,675; Aug. 2; v. 289; p. 157.
Games, Perforated-disk-throwing. Sky Roll Company. No. 141,811; Aug. 2; v. 289; p. 157.
Garments, Men's and boys' wearing-apparel in one, two, and three piece. J. M. Klein. No. 142,887; Aug. 2; v. 289; p. 158.
Gingham in the piece. York Mfg. Co. No. 147,226; Aug. 2; v. 289; p. 173.
Gum, Chewing-. H. C. Faust. No. 144,768; Aug. 2; v. 289; p. 163.
Hair-nets. S. Glemby's Sons Co. No. 149,001; Aug. 2; v. 289; p. 175.
Hair-tonic. T. Noonan & Sons Company. No. 146,129; Aug. 2; v. 289; p. 169.
Hair-tonics, massage-creams, shampoos, &c. H. Bach. No. 140,981; Aug. 2; v. 289; p. 156.
Hammers, drills, saws, motors, &c., Pneumatic. Ingersoll-Rand Company. No. 146,771; Aug. 2; v. 289; p. 172.
Hats, Girls'. May Evelyn Hat Co. No. 146,223; Aug. 2; v. 289; p. 170.
Heaters and furnaces using gas or oil, Steam, hot-water, and hot-air. H. M. Snow. No. 144,253; Aug. 2; v. 289; p. 161.
Hosiery. Cardinal Mills. No. 144,823; Aug. 2; v. 289; p. 163.
Hosiery. Goodman Hosiery Mills. No. 145,783; Aug. 2; v. 289; p. 167.
Hosiery. S. Halff & Co. No. 145,337; Aug. 2; v. 289; p. 165.
Hosiery. United Hosiery Company. No. 145,726; Aug. 2; v. 289; p. 166.
Ice-cream. Puritan Ice Cream Co. No. 145,230; Aug. 2; v. 289; p. 164.
Insect-exterminator. L. P. McGuire. No. 146,326; Aug. 2; v. 289; p. 171.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Insecticide. Enoy Chemical Company. Nos. 145,774–5; Aug. 2; v. 289; pp. 166–7.
Jacks. Automobile-. Diamond Auto Parts Corporation. No. 146,299; Aug. 2; v. 289; p. 170.
Jersey cloth in the piece. W. M. Levy. No. 133,739; Aug. 2; v. 289; p. 152.
Knitted caps, Men's and boys'. Regent Knitting Corporation. No. 145,795; Aug. 2; v. 289; p. 167.
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226— 75: 1,386,299
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88.1: 1,386,313
228— 60 1,386,511
230— 11: 1,386,548
27: 1,386,330
1,386,567
235— 60: 1,386,021
1,386,023

235—	61:	1,386,420	246—	33:	1,386,073	254—	78:	1,386,413	267—	46:	1,386,200	284—	175:	1,386,210	294—	84:	1,386,583
238—	229:	1,386,290		130:	1,386,581		86:	1,386,499		60:	1,385,993	290—	31:	1,386,316	295—	35:	1,386,124
	347:	1,386,536		188:	1,386,302		161:	1,386,552	271—	88:	1,386,364		38:	1,386,285	296—	84:	1,386,418
240—	1:	1,386,241			1,386,482	255—	35:	1,386,220	274—	2:	1,386,040	292—	153:	1,386,382			1,386,565
	2:	1,386,179	247—	19:	1,386,421		69:	1,386,434		15:	1,386,099		173:	1,386,422		145:	R. 15,173
	7:	1,386,412	248—	20:	1,386,453	257—	131:	1,386,461	276—	43:	1,386,079		195:	1,386,551	298—	5:	1,386,263
	8.5:	1,386,474		22:	1,386,480		132:	1,386,174	278—	30:	1,386,005		262:	1,386,291		21:	1,386,390
	41:	1,386,059		30:	1,386,064		218:	1,386,020	280—	85:	1,386,562		343:	1,386,024	299—	31:	1,386,426
	44:	1,386,312		45:	1,386,025	259—	72:	1,386,451		158:	1,386,281	293—	25:	1,386,308	301—	35:	1,386,368
	61:	1,386,014		65:	1,386,392		75:	1,386,245	283—	1:	1,385,982		55:	1,386,186		63:	1,386,164
	115:	1,385,964	249—	19:	1,386,319		131:	1,386,280		34:	1,386,347			1,386,189		66:	1,386,086
242—	131:	1,386,556		58:	1,386,546			1,386,405		36:	1,386,216			1,386,190			
	134:	1,386,121	251—	10:	1,386,004	261—	62:	1,386,036	284—	5:	1,386,225			1,386,191			
	136:	1,386,515		151:	1,386,065	263—	25:	1,386,226		24:	1,386,338			1,386,452	302—	42:	1,386,009
244—	2:	1,386,310	252—		1,386,227		216:	1,386,218		82:	1,386,260	294—	3:	1,386,435	303—	18:	1,386,560
	31:	1,386,493			1,386,497	265—	10:	1,386,214		84:	1,386,343		42:	1,386,365	304—	19:	1,386,195
		1,386,579	253—	199:	1,386,293		68:	1,386,506		108:	1,386,518		53:	1,386,311	306—	1:	1,386,100

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 9TH DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aeolian Company, The. (See Emmons, Charles L., assignor.)

Abler, Edwin A., Chester, Pa. Doll. No. 1,387,224; Aug. 9; v. 289; p. 321.

Air Reduction Company. (See Walker, George L., assignor.)

Aird, George, North Bay, Ontario, Canada, and W. Aird, San Francisco, Calif. Clamping device. No. 1,387,226; Aug. 9; v. 289; p. 321.

Aird, Wilfred. (See Aird, George and W.)

Akemann, Walther, Essen, assignor to Fried. Krupp, Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Fire-control apparatus particularly intended for naval guns. No. 1,387,440; Aug. 9; v. 289; p. 365.

Aktiebolaget Ljungstroms Angturbin. (See Ljungström, Fredrik, assignor.)

Aktiengesellschaft Brown Boveri & Cie. (See Häberli, F., and Kubler, assignors.)

Alexanderson, Ernst F. W., Schenectady, N. Y., assignor to General Electric Company. Apparatus for producing and distributing electric-current waves of radiofrequency. No. 1,386,830; Aug. 9; v. 289; p. 244.

Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,387,225; Aug. 9; v. 289; p. 321.

Allen, Charles J., *et al.*, executors. (See Allen, Samuel L.)

Allen, Elizabeth R., *et al.*, executors. (See Allen, Samuel L.)

Allen, S. L., & Co. (See Allen, Charles J., assignor.)

Allen, Samuel L., deceased, by S. H. Allen, E. R. Allen, S. J. Allen, and C. J. Allen, executors, Moorestown, N. J. Seed-sowing device. No. 1,387,436; Aug. 9; v. 289; p. 365.

Allen, Sarah H., *et al.*, executors. (See Allen, Samuel L.)

Allen, Susan J., *et al.*, executors. (See Allen, Samuel L.)

Alpert, David A., Beachmont, Mass. Amusement device. No. 1,386,590; Aug. 9; v. 289; p. 195.

Altsitzer, Isadore L., and M. Lismov, Yonkers, N. Y. Gas-heater. No. 1,386,672; Aug. 9; v. 289; p. 211.

American District Telegraph Company. (See Hopkins, Richard M., assignor.)

American Gas Machine Company. (See Hanson, Hans C., assignor.)

American Laundry Machinery Company, The. (See Braley, C. L., and Link, assignors.)

American Laundry Machinery Company, The. (See Brockett, Bluford W., assignor.)

American Laundry Machinery Company, The. (See Waream, C. E., and Braley, assignors.)

American Mine Door Company, The. (See Vignos, Charles, assignor.)

American Tag Company. (See Swett, Arthur H., assignor.)

American Tap Bush Co. (See Rice, Frank E., assignor.)

American Tar Company. (See Price, Charles P., assignor.)

American Taximeter Company, The. (See Karich, Rudolf R., assignor.)

American Telephone & Telegraph Company. (See Watson, Edward F., assignor.)

American Thermophone Company. (See Van Lynden, R. A., Baron, assignor.)

Anable, Frederick S., Brookline, assignor to National Binding Machine Company, Boston, Mass. Strip-serving device. No. 1,386,675; Aug. 9; v. 289; p. 212.

Anchor Cap & Closure Corporation. (See Ramsey, George, assignor.)

Anders, Charles F. P., Urbana, Ill., assignor to E. L. Greenewald, Washington, D. C. Vacuum-bottle. No. 1,387,337; Aug. 9; v. 289; p. 345.

Anderson, Andrew G., Wollaston, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,115; Aug. 9; v. 289; p. 301.

Anderson, Frederick E. (See Rhodes, W. A., and Anderson.)

Anderson, Maurice, Cranston, R. I., assignor to V. E. Black Company. Garment-fastener. No. 1,386,592; Aug. 9; v. 289; p. 195.

Anderson, Robert, New York, N. Y. Link jewelry. No. 1,386,591; Aug. 9; v. 289; p. 195.

Anthony, Joseph W., Lynn, Mass. Leather-folding machine. No. 1,386,676; Aug. 9; v. 289; p. 212.

Anthony, Thomas P., Edgewater Park, N. J., assignor to United States Cast Iron Pipe & Foundry Company. Drying molds. No. 1,386,593; Aug. 9; v. 289; p. 195.

Arms Products Company. (See Post, Truman W., assignor.)

Arvac Manufacturing Company. (See Schaefer, Clemens T., assignor.)

Asbury, Charles H., Post Falls, Idaho. Whiffletree. No. 1,386,673; Aug. 9; v. 289; p. 211.

Asfag Aktiengesellschaft. (See Gebhard, Conrad, assignor.)

Auffurth, Erwin, Jr., and E. Hjerpe, Port Arthur, Tex. Game. No. 1,386,594; Aug. 9; v. 289; p. 195.

Austin, Albert L., Cleveland, Ohio. Electric-terminal connector. No. 1,386,831; Aug. 9; v. 289; p. 244.

Automatic Signal & Sign Company, The. (See Myers, Parke G., assignor.)

Babcock-Davis Corporation. (See Nelson, Albert H., assignor.)

Badger Manufacturing Corporation. (See Hathaway, C. H., Starck, and McEvoy, assignors.)

Baer, Walter C., Toledo, Ohio. Refrigeration apparatus. No. 1,386,753; Aug. 9; v. 289; p. 228.

Bailey, Charles A., Cromwell, Conn. Toy pistol. No. 1,387,095; Aug. 9; v. 289; p. 298.

Bailly, Louis, assignor to The Columbus Oil Engine Company, Columbus, Ohio. Fuel-injector for two-stroke high-compression motors. No. 1,386,832; Aug. 9; v. 289; p. 244.

Balduff, Bruno E., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Capstan. No. 1,386,677; Aug. 9; v. 289; p. 212.

Ball, Charles F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Auto-tractor. No. 1,387,033; Aug. 9; v. 289; p. 285.

Ball, John F., Estep, W. Va. Wire-fence stretcher. No. 1,387,338; Aug. 9; v. 289; p. 345.

Ballantine, William B., assignor to The Empire (Alloy) Steel Corporation, Limited, London, England. Production of metallic alloys. No. 1,386,981; Aug. 9; v. 289; p. 274.

Baltimore Tube Company. (See Morse, Charles S., assignor.)

Banister, Robert H., Anniston, Ala. Tool-holder. No. 1,387,339; Aug. 9; v. 289; p. 345.

Banner Rock Products Company. (See Hall, Charles C., assignor.)

Barber-Colman Company. (See Hathaway, Edgar F., assignor.)

Barber, Louis, and E. L. Filson, assignors to The National Screw and Tack Company, Cleveland, Ohio. Nut-castellating machine. No. 1,387,092; Aug. 9; v. 289; p. 297.

Barnard, Ray D., assignor to R. C. Plant, Minneapolis, Minn. Illumination device. No. 1,386,982; Aug. 9; v. 289; p. 247.

Barnes, John A., assignor to Fowler-Williams Company, Dallas, Tex. Blow-out boots. (Reissue.) No. 15,174; Aug. 9; v. 289; p. 366.

Barnes, S. V. (See Barnes, Willard F., assignor.)

Barnes, Willard F., assignor to S. V. Barnes, Berkeley, Calif. Basket-making machine. No. 1,387,093; Aug. 9; v. 289; p. 297.

Barrett, Charles D., J. E. Myers, and A. O. King, Altoona, Pa. Balanced throttle-valve. No. 1,386,678; Aug. 9; v. 289; p. 213.

Barrett, John L., Chicago, Ill. Steam-economizer. No. 1,387,227; Aug. 9; v. 289; p. 321.

Barron, William L., Newark, N. J., assignor to The Singer Manufacturing Company. Interchangeable needle-guide. No. 1,387,094; Aug. 9; v. 289; p. 297.

Barron, William L., and A. F. Fifield, Newark, N. J., assignors to The Singer Manufacturing Company. Work-holder for sewing-machines. No. 1,387,034; Aug. 9; v. 289; p. 285.

Basler, Norman E., St. Louis, Mo. Rail-antispreading device. No. 1,387,340; Aug. 9; v. 289; p. 345.

Baukhage, Frederick R. (See Collins, W. H., and Baukhage.)

Baule, Arno B., and W. G. Kirchhoff, Canton, Ohio. Operating device for valve-grinders. No. 1,386,674; Aug. 9; v. 289; p. 212.

Baumann, Karl, Urmston, England, assignor to The British Westinghouse Electric and Manufacturing Company Limited. Axial-flow steam-turbine. No. 1,386,983; Aug. 9; v. 289; p. 274.

Baxter, Alexander L., Masury Station, Ohio. Poured-concrete-cement block. No. 1,386,754; Aug. 9; v. 289; p. 228.

Baynard, William H. (See Eddins, S. A., and Baynard.)

Beardmore, Clarence A., assignor of one-half to W. G. Gott, Annapolis, Md. Liquid-level gage for automobile-radiators. No. 1,386,833; Aug. 9; v. 289; p. 245.

Beckert, Albert R., Lynn, Mass., assignor to General Electric Company. Torsion-spring. No. 1,386,834; Aug. 9; v. 289; p. 245.

Begtrup, Frederick L. (See Tower, M. L., and Begtrup.)

Behning, Robert V., Los Angeles, Calif. Hatrack. No. 1,387,341; Aug. 9; v. 289; p. 346.

Bell, Arthur M., Bombay, India, assignor to Taite & Carlton, Westminster, London, England. Continuous automatic fluid-pressure brake for railway and like vehicles. No. 1,387,035; Aug. 9; v. 289; p. 285.

Bell, John H., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Selective system. No. 1,387,228; Aug. 9; v. 289; p. 321.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,386,679; Aug. 9; v. 289; p. 213.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,387,229; Aug. 9; v. 289; p. 321.

Bennett, Cyrus E., Buffalo, N. Y. Garment-pocket. No. 1,387,342; Aug. 9; v. 289; p. 346.

Benson, Arthur J., Malden, Mass. Nut-lock. No. 1,387,096; Aug. 9; v. 289; p. 208.

Benson, Edward R., Minneapolis, Minn., and M. S. Crandall, Sioux City, Iowa. Vehicle-dump. No. 1,387,036; Aug. 9; v. 289; p. 285.

Benson, Jean L., Chicago, Ill. Cloth-protecting device. No. 1,386,755; Aug. 9; v. 289; p. 228.

Benson, Matthew P., Troy, and M. M. Wiemer, New York, N. Y. Strap attachment for brushes. No. 1,386,756; Aug. 9; v. 289; p. 229.

Benton, William E., San Francisco, Calif. Toy doll. No. 1,387,097; Aug. 9; v. 289; p. 208.

Berger, Joseph, Utica, N. Y., assignor to Union Special Machine Company, Chicago, Ill. Shaping and seaming garments. No. 1,386,680; Aug. 9; v. 289; p. 213.

Bergman, Frederick, assignor of one-third to A. B. Spach, Chicago, Ill. Blade-holder. No. 1,386,767; Aug. 9; v. 289; p. 229.

Betz, Samuel G., Lewiston, assignor to Standard Steel Works Company, Philadelphia, Pa. Tool-holder. No. 1,387,343; Aug. 9; v. 289; p. 346.

Beyer, Alois. (See Rendle, T. A., and Beyer.)

Binder, John, New York, assignor to International Cork Company, Brooklyn, N. Y. Machine for the manufacture of bottle-closures. No. 1,387,037; Aug. 9; v. 289; p. 285.

Birth, Charles, Kingston, assignor to Wales Adding Machine Company, Wilkes-Barre, Pa. Calculating-machine. No. 1,386,758; Aug. 9; v. 289; p. 229.

Birkett, Ralph, W., Sutton, England. Regenerative counter-propeller for marine vessels. No. 1,386,835; Aug. 9; v. 289; p. 245.

Birkholm, Axel. (See Hall, R. G., and Birkholm.)

Black, V. E., Company. (See Anderson, Maurice, assignor.)

Blake, Charles C., Brookline, Mass. Heel-lasting machine. No. 1,386,681; Aug. 9; v. 289; p. 213.

Blake, William F., Toledo, Ohio. Washing-machine. No. 1,386,682; Aug. 9; v. 289; p. 213.

Blalock, Jesse N., *et al.*, trustees. (See Rockwell, R. I., and Stevens, assignors.)

Bliss, Elmer J., Boston, Mass. Orthopedic last. No. 1,387,038; Aug. 9; v. 289; p. 286.

Boenning, William M., Manitowoc, Wis. Vehicle shock-absorber. No. 1,386,759; Aug. 9; v. 289; p. 229.

Boland, Marion D., Appleton, Ark. Cotton-chopper. No. 1,387,344; Aug. 9; v. 289; p. 346.

Bollinger, Frederick P., assignor of one-half to W. J. Peck, Newark, N. J. Tool for turning crank-pins, &c. No. 1,386,984; Aug. 9; v. 289; p. 275.

Booth, William T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,386,683; Aug. 9; v. 289; p. 214.

Bosch, Carl, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Process and means relating to the production of ammonia. No. 1,386,760; Aug. 9; v. 289; p. 229.

Bowers, George L., Newark, Ohio. Means for securing shoe-tongues and the like. No. 1,386,985; Aug. 9; v. 289; p. 275.

Bowman, Wade W., New York, N. Y. Towel-holder. No. 1,386,761; Aug. 9; v. 289; p. 230.

Bowman, Walter H., Philadelphia, Pa. Artificial tooth. No. 1,386,762; Aug. 9; v. 289; p. 230.

Bradford, Charles M., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe. No. 1,386,684; Aug. 9; v. 289; p. 214.

Braley, Charles L. (See Waream, C. E., and Braley.)

Braley, Charles L., and G. N. Link, Cincinnati, assignors to The American Laundry Machinery Company, Norwood, Ohio. Heating mechanism for presses. No. 1,387,039; Aug. 9; v. 289; p. 286.

Brandenburg, Francis C., Piqua, Ohio. Tool for dressing emery-wheels. No. 1,387,040; Aug. 9; v. 289; p. 286.

Brandt, Andrew G., Scranton, Pa. Pool-table. No. 1,387,345; Aug. 9; v. 289; p. 346.

Brannigan, George T., assignor to The Connecticut Web and Buckle Company, Bridgeport, Conn. Clasp-stud. No. 1,387,230; Aug. 9; v. 289; p. 322.

Brant, Gilmore, W., Canton, Ohio. Rail-joint box. No. 1,386,685; Aug. 9; v. 289; p. 214.

Bratt, Charles E., and G. Fluck, assignors to Continental Can Company, Inc., Syracuse, N. Y. Can-end-feeding device. No. 1,387,008; Aug. 9; v. 289; p. 208.

Braun, Carl A., Munich, assignor to H. M. Lachmann, R. G. Lachmann, and G. H. Lachmann, Berlin, Germany. Producing cellulose. No. 1,387,441; Aug. 9; v. 289; p. 366.

Brauner, Pincus. (See Rosen, L. W., and Brauner.)

Brenner, D. C. (See Trabue, William, assignor.)

Bretthauer, John H., Westchester, N. Y. Operating sounders. No. 1,386,763; Aug. 9; v. 289; p. 230.

Bricher, Manuel, Pocatello, Idaho. Wrench. No. 1,387,346; Aug. 9; v. 289; p. 347.

Brierley, Frank, Manchester, assignor to Chain Roller Bearing Company Limited, Stockport, England. Roller-bearing. No. 1,386,986; Aug. 9; v. 289; p. 275.

Brinkman, Louis H., Glen Ridge, N. J., assignor to Titeflex Metal Hose Corporation. Flexible tube. No. 1,387,231; Aug. 9; v. 289; p. 322.

Brintzenhofe, Otto, Cleveland, Ohio, assignor to Electric Vacuum Cleaner Company Inc. Switch for electric vacuum-cleaners. No. 1,386,836; Aug. 9; v. 289; p. 245.

Brion, Adolph E. (See Rosen, L. W., and Brauner, assignors.)

British Westinghouse Electric and Manufacturing Company Limited. (See Baumann, Karl, assignor.)

Brockett, Bluford W., Cleveland, assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Workshirt press. No. 1,387,009; Aug. 9; v. 289; p. 298.

Brown, Earl D., Bakersfield, Calif. Frictionless spring. No. 1,387,041; Aug. 9; v. 289; p. 286.

Brown, Howard S., Oasis, Utah, assignor to Pawling & Harnischfeger Company, West Milwaukee, Wis. Excavating-wheel. No. 1,386,987; Aug. 9; v. 289; p. 275.

Brown, Lee, Modesto, Calif. Cranking device for tractors. No. 1,386,837; Aug. 9; v. 289; p. 245.

Broman, Lydia, Minneapolis, Minn. Apron. No. 1,386,595; Aug. 9; v. 289; p. 196.

Brucker, Henry. (See Oliver, J. W., and Brucker.)

Bryant Electric Company, The. (See Loedler, Fred W., assignor.)

Bryden, John A. (See McCutchen, U. R., Bryden, and Hall.)

Buchanan, Charles G., East Orange, N. J. Crusher. No. 1,386,764; Aug. 9; v. 289; p. 230.

Buchner, Max, Hanover, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing hydroxids of metals by precipitating metallic salts with ammonia. No. 1,386,920; Aug. 9; v. 289; p. 262.

Buck, Thomas F., New Castle, Pa. Safety-fender for automobiles. No. 1,387,100; Aug. 9, v. 289; p. 298.

Bugbee, Lucian W., assignor to Onepiece Bifocal Lens Company, Indianapolis, Ind. Lens-grinding machine. No. 1,387,232; Aug. 9; v. 289; p. 322.

Bulla, Melbern B., El Paso, Tex. Safety attachment for automatic train-stops. No. 1,387,233; Aug. 9; v. 289; p. 322.

Bullard, Albert M., deceased, by M. R. Bullard, administratrix, Woodstock, N. Y., and J. N. Reynolds, Greenwich, Conn., assignors, by mesne assignments, to Western Electric Company, Incorporated. Controlling system for automatic switching systems. No. 1,386,686; Aug. 9; v. 289; p. 214.

Bullard, Marion R., administratrix. (See Bullard, A. M., and Reynolds.)

Bullis, Frank G., Vancouver, Wash. Spotlight for motor-vehicles. No. 1,387,347; Aug. 9; v. 289; p. 347.

Burgess, C. F., Laboratories. (See Weiss, Howard F., assignor.)

Burgstresser, Abram K., assignor to Norristown Magnesia and Asbestos Co., Norristown, Pa. Pipe-covering and fabric from which pipe-coverings are made. No. 1,387,348; Aug. 9; v. 289; p. 247.

Burke, Andrew J., New Haven, Conn. Tool. No. 1,387,234; Aug. 9; v. 289; p. 322.

Burkhardt, Curt R., Teaneck, N. J. Ridge-saddle. No. 1,387,235; Aug. 9; v. 289; p. 323.

Burlew, Gilderoy O., Newark, N. J. Elastic collar for polishing and grinding wheels. No. 1,386,988; Aug. 9; v. 289; p. 276.

Burnett, Frances H., *et al.*, executors. (See Fahnestock, Ernest B.)

Burnham, Locke H., Pittsfield, Mass., assignor to General Electric Company. Winding for electrical apparatus. No. 1,386,838; Aug. 9; v. 289; p. 246.

Cadoret, Louis A., Pawtucket, R. I. Bobbin-holder. No. 1,386,921; Aug. 9; v. 289; p. 263.

Callomon, Clarence B., South Orange, assignor to Driver-Harris Company, Harrison, N. J. Box for heat-treating metallic articles. No. 1,387,236; Aug. 9; v. 289; p. 323.

Calovi, Primo, assignor, by mesne assignments, to Holdsem Company Inc., New York, N. Y. Composition of matter and producing the same. No. 1,386,022; Aug. 9; v. 289; p. 263.

Campbell, Archibald G., Richmond, England. Wind and weather screen for motorcycles. No. 1,387,349; Aug. 9; v. 289; p. 347.

Campbell, Argyle, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Convertible box-car. No. 1,386,765; Aug. 9; v. 289; p. 230.

Candee, Zenas P., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Mechanical movement. No. 1,387,101; Aug. 9; v. 289; p. 299.

Canfield, Edwin J. (See Madden, J., and Canfield.)

Capper, Edward C., Prosper, Minn. Automatic fire-alarm device. No. 1,386,923; Aug. 9; v. 289; p. 263.

Capper, Edward C., Prosper, Minn. Goggles. No. 1,386,989; Aug. 9; v. 289; p. 276.

Carlson, Theodore, Stillwater, Wash. Excavating and hoisting apparatus. No. 1,387,042; Aug. 9; v. 289; p. 286.

Carpenter, William J., assignor of one-half to J. J. Jordan, Chicago, Ill. Wrench. No. 1,386,596; Aug. 9; v. 289; p. 196.

Carr Fastener Company. (See Anderson, Andrew G., assignor.)

Carr Fastener Company. (See Carr, Fred S., assignor.)

Carr Fastener Company. (See Carr, Moses F., assignor.)

Carr Fastener Company. (See Larssen, Lars A., assignor.)

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,102; Aug. 9; v. 289; p. 299.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,103; Aug. 9; v. 289; p. 299.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,104; Aug. 9; v. 289; p. 299.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,107; Aug. 9; v. 289; p. 300.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,108; Aug. 9; v. 289; p. 300.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,109; Aug. 9; v. 289; p. 300.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,110; Aug. 9; v. 289; p. 300.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,111; Aug. 9; v. 289; p. 300.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,112; Aug. 9; v. 289; p. 300.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,113; Aug. 9; v. 289; p. 301.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Fastener. No. 1,387,114; Aug. 9; v. 289; p. 301.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,116; Aug. 9; v. 289; p. 301.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,117; Aug. 9; v. 289; p. 301.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,118; Aug. 9; v. 289; p. 301.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,119; Aug. 9; v. 289; p. 301.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,120; Aug. 9; v. 289; p. 302.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,121; Aug. 9; v. 289; p. 302.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener and means for securing its stud to carrying fabrics. No. 1,387,122; Aug. 9; v. 289; p. 302.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,123; Aug. 9; v. 289; p. 302.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener and means for securing its socket to carrying fabrics. No. 1,387,124; Aug. 9; v. 289; p. 302.

Carr, Fred S., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener and means for securing its socket to carrying fabrics. No. 1,387,125; Aug. 9; v. 289; p. 302.

Carr, Moses F., Newton, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,126; Aug. 9; v. 289; p. 303.

Cartledge, Cora H., Philadelphia, Pa. Container. No. 1,387,237; Aug. 9; v. 289; p. 323.

Cave, Daniel B., assignor of one-fourth to H. M. George, one-fourth to E. A. Willner, one-eighth to C. P. Peterson, and one-eighth to R. W. Devoe, Lincoln, Nebr. Placer-gold concentrator. No. 1,387,238; Aug. 9; v. 289; p. 323.

Centervall, Hugo, Brooklyn, N. Y. Internal-combustion engine. No. 1,386,766; Aug. 9; v. 289; p. 231.

Chain Roller Bearing Company. (See Brierley, Frank, assignor.)

Chamberlain, Rufus N., Chicago, Ill., assignor to Gould Storage Battery Co., Depew, N. Y. Safety device for storage batteries. No. 1,387,350; Aug. 9; v. 289; p. 348.

Chamnion Ignition Company. (See McDougal, Taine G., assignor.)

Chandler, Hilda F., Chicago, Ill. Table-mat. No. 1,387,239; Aug. 9; v. 289; p. 323.

Chandler, Daniel L., Fitchburg, assignor to Vend-Ads Co., Inc., Worcester, Mass. Soap tablet. No. 1,386,767; Aug. 9; v. 289; p. 231.

Chapin, William R., Indianapolis, Ind. Welding compound. No. 1,387,351; Aug. 9; v. 289; p. 348.

Charters, Ernest D., assignor to Charters Manufacturing Co., Santa Cruz, Calif. Temperature-regulating device for incubators and brooders. No. 1,386,990; Aug. 9; v. 289; p. 276.

Charters Manufacturing Co. (See Charters, Ernest D., assignor.)

Chase, Elijah M., Cheyenne, Wyo. Releasing device for motion-picture-film reels. No. 1,386,839; Aug. 9; v. 289; p. 246.

Chase, Sidney M., Minneapolis, Minn. Reinforcing-tube for boring-tools. No. 1,386,687; Aug. 9; v. 289; p. 215.

Chemical Foundation, The. (See Bosch, Carl, assignor.)

Chemical Foundation, The. (See Buchner, Max, assignor.)

Chemical Foundation, The. (See Lewenstein, K. Prinz Zu, and Hauff, assignors.)

Chemical Foundation, The. (See Ostwald, Walter, assignor.)

Chemical Foundation, The. (See Pfleumer, Fritz, and H., assignors.)

Chonkich, Michael. (See Goddard, James E., assignor.)

Church, Ralph D., Dallas, Tex. Cultivating-hoe. No. 1,387,127; Aug. 9; v. 289; p. 303.

Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)

Clark, Absalom T., Winchester, Ind. Gate opener and closer. No. 1,386,991; Aug. 9; v. 289; p. 276.

Clark, Joseph, De Graff, Minn. Sprayer device. No. 1,387,352; Aug. 9; v. 289; p. 348.

Clausen, Henry P. (See Goodrum, C. L., and Clausen.)

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,387,353; Aug. 9; v. 289; p. 348.

Clausen, Henry P., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,354; Aug. 9; v. 289; p. 348.

Clausen, Henry P., Mount Vernon, and C. L. Goodrum, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,386,688; Aug. 9; v. 289; p. 215.

Cleveland Tractor Company, The. (See White, R. H., and Morgan, assignors.)

Cleveland Tractor Company, The. (See White, Rollin H., assignor.)

Clifton, Lonnie N., Raleigh, N. C. Saddle for engines. No. 1,386,924; Aug. 9; v. 289; p. 263.

Clinker, Reginald C., Rugby, England, assignor to General Electric Company. Radiosignaling system. No. 1,386,840; Aug. 9; v. 289; p. 246.

Cobb, Albert C., Houston, Tex. Automobile-signal. No. 1,386,597; Aug. 9; v. 289; p. 196.

Coey, Stewart C., Newark, N. J., assignor to The Youngstown Sheet & Tube Company, Youngstown, Ohio. Magnetic skelp-charging machine. (Reissue.) No. 57,175; Aug. 9; v. 289; p. 366.

Cofin, Joseph G., Garden City, assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y. Method of and apparatus for making aerofoils and the like. No. 1,386,841; Aug. 9; v. 289; p. 246.

Coleman, Patrick J., Bristol, Conn. Radiator heating system. No. 1,386,508; Aug. 9; v. 289; p. 196.

Collet, Albert, assignor to Societe Maurice et Pierre Collet & Cie., Paris, France. Generating set movable upon rails. No. 1,387,431; Aug. 9; v. 289; p. 363.

Collet, Mark W. (See Staley, S. S., and Collet.)

Collis, Raymond E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Stroboscopic system. No. 1,387,240; Aug. 9; v. 289; p. 323.

Collins, William H., and F. R. Baukhage, Danville, Ill. Safety-signal for motor-vehicles. No. 1,387,355; Aug. 9; v. 289; p. 349.

Columbus Oil Engine Company, The. (See Bailly, Louis, assignor.)

Combination Machine Company. (See Thom, James C., assignor.)

Conlon, Walter J. (See Dienner, John A., assignor.)

Connecticut Web and Buckle Company, The. (See Brannigan, George T., assignor.)

Consolidated Expanded Metal Companies. (See Quinn, Joseph J., assignor.)

Constantinesco, George, Weybridge, England. Actuating speed-indicating devices, governors, and other devices from rotating shafts. No. 1,386,925; Aug. 9; v. 289; p. 263.

Continental Can Company. (See Bratt, C. E., and Fluck, assignors.)

Conway, Roy D., Chatham, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,386,689; Aug. 9; v. 289; p. 215.

Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Automobile tractor attachment. No. 1,386,842; Aug. 9; v. 289; p. 246.

Cook, Albert E., Evanston, and T. Van Tuyl, Kankakee, Ill.; said Van Tuyl assignor to said Cook. Tractor-tread for pneumatic-tire wheels. No. 1,386,843; Aug. 9; v. 289; p. 247.

Cook, Stanley S. (See Parsons, C. A., Cook, and Douglas.)

Cook, William H., Los Angeles, Calif. Lubricant-dispensing container. No. 1,387,356; Aug. 9; v. 289; p. 349.

Copper Products Company. (See Merritt, Matthew M., assignor.)

Corbett, William A., Winnipeg, Manitoba, Canada. Egg-boiler. No. 1,387,357; Aug. 9; v. 289; p. 349.

Corcoran Victor Company, The. (See Reyder, Charles D., assignor.)

Corona Typewriter Company. (See de Clamecy, Philippe, assignor.)

Costello, Joseph, New York, N. Y. Loss-preventing device. No. 1,387,358; Aug. 9; v. 289; p. 349.

Costmeter Company. (See Quigley, John T., assignor.)

Coulliard, Albert O., Milford, Mass. Game apparatus. No. 1,387,241; Aug. 9; v. 289; p. 324.

Courvoisier, James H., Joplin, Mo. Pneumatic tire. No. 1,386,599; Aug. 9; v. 289; p. 196.

Cowan, Henry, New York, N. Y. Coffee-percolator. No. 1,387,128; Aug. 9; v. 289; p. 303.

Cowen, Henry K., Milwaukee, Wis. Automatic operating means for internal-combustion engines. No. 1,386,844; Aug. 9; v. 289; p. 247.

Cox Brass Manufacturing Company. (See Cox, William G., assignor.)

Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Bracket for automobile-bumpers. No. 1,386,845; Aug. 9; v. 289; p. 247.

Crandall, Milton S. (See Benson, E. R., and Crandall.)

Crane, Joshua, Westwood, Mass. Tire. No. 1,387,242; Aug. 9; v. 289; p. 324.

Crawford, Gustavus C., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,386,690; Aug. 9; v. 289; p. 215.

Crawford, McGregor and Canby Co., The. (See Long, C. L., and Schmaus, assignors.)

Crawford, McGregor and Canby Co., The. (See Risser, Charles E., assignor.)

Crocker, William W., Junction City, Kans. Clothes-stick. No. 1,386,992; Aug. 9; v. 289; p. 277.

Crosby, Vernon E., Minneapolis, Minn. Rear-seat windshield. No. 1,386,600; Aug. 9; v. 289; p. 197.

Cross, Anson K., Ashland, Mass. Drawing and painting glass. No. 1,387,439; Aug. 9; v. 289; p. 365.

Crossett, Thomas, Brooklyn, N. Y. Making U-packing. No. 1,386,601; Aug. 9; v. 289; p. 197.

Crossett, Thomas, New York, N. Y. Mold and apparatus for making U-packing. No. 1,386,602; Aug. 9; v. 289; p. 197.

Crowe, Thomas B. (See Mills, L. D., and Crowe.)

Croyle, William I., Hellwood, Pa. Trap. No. 1,387,129; Aug. 9; v. 289; p. 303.

Crumlich, Robert H., Erie, Pa. Vulcanizing-press. No. 1,386,603; Aug. 9; v. 289; p. 197.

Cunningham, Charles G., New York, N. Y., assignor to Elevator Supplies Co., Inc. Lubricating device. No. 1,386,604; Aug. 9; v. 289; p. 197.

Curran, Thomas, Chillicothe, Ill. Automatic valve control. No. 1,387,130; Aug. 9; v. 289; p. 303.

Curry, J. P., Mfg. Co. (See Foulder, Henry B., assignor.)

Curtiss Aeroplane and Motor Corporation. (See Coffin, Joseph G., assignor.)

Curtiss Aeroplane and Motor Corporation. (See Curtiss, G. H., and Kleckler, assignors.)

Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)

Curtiss, Glenn H., Garden City, and H. Kleckler, Hammondsport, assignors to Curtiss Aeroplane and Motor Corporation, Garden City, N. Y. Fuel-supply system for aircraft and similar apparatus. No. 1,386,846; Aug. 9; v. 289; p. 247.

Damon, George N., assignor to The Lorain Rubber Heel Company, Lorain, Ohio. Rubber heel and insert therefor. No. 1,387,243; Aug. 9; v. 289; p. 324.

Danly, Robert C., assignor to Ludwig & Ludwig, Chicago, Ill. Drum and cymbal beater. No. 1,386,605; Aug. 9; v. 289; p. 196.

Davidenia, Terentie, Detroit, Mich. Railway-station indicator. No. 1,386,606; Aug. 9; v. 289; p. 198.

Davis, Evan J., Yakima, Wash. Heat-stove. No. 1,387,359; Aug. 9; v. 289; p. 349.

Davis, Haskell C. (See Keator, Frank Y., assignor.)

Davis, John, Detroit, Mich. Spring-tire. No. 1,387,360; Aug. 9; v. 289; p. 349.

Davis, Walter, Tulsa, Okla. Rotary switch. No. 1,387,361; Aug. 9; v. 289; p. 350.

Davy Brothers. (See Hand, Thomas W., assignor.)

Day, David E., Santa Maria, Calif. Oil-cracking process and apparatus therefor. No. 1,386,768; Aug. 9; v. 289; p. 231.

Dean, Clark A., assignor, by mesne assignments, to Stark-Inland Machine Works, St. Louis, Mo. Register adapted to be applied to the floors or footboards of automobiles. No 1,387,131; Aug. 9; v. 289; p. 303.

Dean, John H., Grand Rapids, Mich. Tobacco stemming and booking machine. No. 1,387,244; Aug. 9; v. 289; p. 324.

Decherd, Constant K., Middletown, assignor to International Silver Co., Meriden, Conn. Packing silverware. No. 1,387,132; Aug. 9; v. 289; p. 304.

De Clamecy, Philippe, New York, assignor to Corona Typewriter Company, Groton, N. Y. Folding typewriting-machine. No. 1,387,362; Aug. 9; v. 289; p. 350.

De Fore, Thomas M., assignor of one-half to W. T. Olson, Minneapolis, Minn. Support for liquid-soap containers. No. 1,387,363; Aug. 9; v. 289; p. 350.

De Laval Separator Company, The. (See Leitch, Meredith, assignor.)

Delaware Chemical Engineering Company. (See du Pont, Francis I., assignor.)

Dellisdo, Guy A., Belmont, Pa. Rail-joint. No. 1,386,847; Aug. 9; v. 289; p. 247.

Deming & Gould Company. (See Malmquist, Adolph K., assignor.)

De Raigman, Adrien F., Montreal, Quebec, Canada. Electric water-heater. No. 1,386,607; Aug. 9; v. 289; p. 198.

Detroit Lubricator Company. (See Kirby, Charles H., assignor.)

Deutsche Lichtbild-Gesellschaft. (See Schulze, Arthur, assignor.)

Dever, Christy J., Clinton, Okla. Pump-jack. No. 1,387,364; Aug. 9; v. 289; p. 350.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Universal joint-coupling. No. 1,387,043; Aug. 9; v. 289; p. 287.

Devoe, Robert W., *et al.* (See Cave, Daniel B., assignor.)

Dienner, John A., assignor to W. J. Conlon, Chicago, Ill. Gearing for washing-machines and the like. No. 1,387,365; Aug. 9; v. 289; p. 350.

Dillig, George F., Pittsburgh, Pa. Internal-combustion engine. No. 1,387,438; Aug. 9; v. 289; p. 355.

Dingfeld, Oscar, Brooklyn, N. Y. Hand-case for ladies. No. 1,386,848; Aug. 9; v. 289; p. 248.

Ditson, Jesse, Littleton, Colo., assignor to Ingersoll-Rand Company, Jersey City, N. J. Dolly-return device. No. 1,386,769; Aug. 9; v. 289; p. 231.

Dixon, Amos F., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telegraph system. No. 1,386,993; Aug. 9; v. 289; p. 277.

Doble, John A. (See Doble, W. A., W. A., Jr., and J. A.)

Doble Laboratories. (See Doble, William A., W. A., Jr., and J. A., assignors.)

Doble, William A., Jr. (See Doble, W. A., W. A., Jr., and J. A.)

Doble, William A., W. A., Jr., and J. A., assignors to Doble Laboratories, San Francisco, Calif. Liquid-fuel burner. No. 1,386,994; Aug. 9; v. 289; p. 277.

Dodge Brothers. (See Dodge, J. F., and Goddard, assignors.)

Dodge, John F., and G. E. Goddard, assignors to Dodge Brothers, Detroit, Mich. Window-runway. No. 1,387,366; Aug. 9; v. 289; p. 351.

Dodge, William L., and H. D. MacPherson, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,367; Aug. 9; v. 289; p. 351.

Dorel, Félix, Paris, France. Manufacture of gelatinous compositions for use in the reproduction of line documents. No. 1,386,995; Aug. 9; v. 289; p. 277.

Dorrance, David W., San Jose, Calif. Artificial limb. No. 1,387,133; Aug. 9; v. 289; p. 304.

Douglas, Louis M. (See Parsons, C. A., Cook, and Douglas.)

Douglass, Ray, Deer Park, N. Y. Bobbin-winding apparatus for sewing-machines. No. 1,387,368; Aug. 9; v. 289; p. 351.

Dowling, Francis J., New York, N. Y. Lock. No. 1,387,245; Aug. 9; v. 289; p. 325.

Downey, Clement L., Cincinnati, Ohio. Coin-tube. No. 1,386,770; Aug. 9; v. 289; p. 231.

Draper Corporation. (See Snow, Isaac, assignor.)

Drechsel, George H. (See Stoll, G. W., and Drechsel.)

Driver-Harris Company. (See Callomon, Clarence B., assignor.)

Driver-Harris Company. (See Major, Ralph M., assignor.)

Drufva, John T., Longmeadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y. Portable electric light. (Reissue.) No. 15,176; Aug. 9; v. 289; p. 366.

Duchesne, Ernest, Montreal, Quebec, Canada. Staybolt-fastening. No. 1,386,691; Aug. 9; v. 289; p. 215.

Dudley, Walter J. (See Price, T. H., White, and Dudley.)

Dufek, Louis, Chehalis, Wash. Approachway for platforms of cars. No. 1,387,134; Aug. 9; v. 289; p. 304.

Duffek, Josef, assignor to Firm of Oesterreichische Waffenfabriksgesellschaft, Steyr, Upper Austria, Austria. Gun-lock for automatic firearms. No. 1,387,369; Aug. 9; v. 289; p. 351.

Du Pont, Francis I., assignor to Delaware Chemical Engineering Company, Wilmington, Del. System for steam-driven motor-vehicles. No. 1,386,608; Aug. 9; v. 289; p. 198.

Dupont, Jean G., Chicago, Ill. Bonnet. No. 1,386,602. Aug. 9; v. 289; p. 216.

Dwyer, William O., Pittsfield, Mass., assignor to General Electric Company. Electrical apparatus. No. 1,386,849; Aug. 9; v. 289; p. 248.

Earle, H. S., Mfg. Co. (See Earle, Horatio S., assignor.)

Earle, Horatio S., assignor to H. S. Earle Mfg. Co., Detroit, Mich. Grass-hook. No. 1,387,246; Aug. 9; v. 289; p. 325.

Eastman Kodak Company. (See Hastings, H. E., Farley, and Sulzer, assignors.)

Eastman Kodak Company. (See Vaeth, William C., assignor.)

Eck, Earl, Robbinsdale, Minn. Portable windlass. No. 1,386,698; Aug. 9; v. 289; p. 216.

Eddins, Sextus A., Brockton, and W. H. Baynard, Boston, Mass. Making low-cut shoes. No. 1,386,850; Aug. 9; v. 289; p. 248.

Edwards, William H., Annandale, near Sydney, New South Wales, Australia. Game-scoring device. No. 1,386,996; Aug. 9; v. 289; p. 277.

Elden, Alf L., Alvarado, Minn. Direct-current electric motor. No. 1,386,609; Aug. 9; v. 289, p. 199.

Electric Vacuum Cleaner Company. (See Brintzenhofe, Otto, assignor.)

Elevator Supplies Co., Inc. (See Cunningham, Charles G., assignor.)

Elliott-Nichols Manufacturing Company. (See Severance, H. W., and Hemphill, assignors.)

Elliott, Richard P., Lexington, Mass. Manufacturing piston-rings. No. 1,386,997; Aug. 9; v. 289; p. 277.

Elliott, Richard P., Lexington, Mass. Piston-ring. No. 1,386,998; Aug. 9; v. 289; p. 278.

Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway-car. No. 1,386,851; Aug. 9; v. 289; p. 248.

Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway-car. No. 1,386,852; Aug. 9; v. 289; p. 248.

Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Railway-car truck. No. 1,386,853; Aug. 9; v. 289; p. 248.

Elmore, Guy H., Swarthmore, Pa. Jig. No. 1,387,370; Aug. 9; v. 289, p. 352.

Emmons, Charles L., Cranford, N. J., assignor to The Aeolian Company. Tracking device. No. 1,387,371; Aug. 9; v. 289; p. 352.

Empire (Alloy) Steel Corporation, Limited, The. (See Ballantine, William B., assignor.)

Engel, Albert W., Chicago, Ill. Picture-mounting device. No. 1,386,771; Aug. 9; v. 289; p. 231.

Engel, Godfrey, Sr., Brooklyn, N. Y. Turning-plate. No. 1,386,999; Aug. 9; v. 289; p. 278.

Engelbrecht, Reinhold, Essen-Ruhr, Germany. Button. No. 1,386,772; Aug. 9; v. 289; p. 232.

Enlind, Kasnte A., South Nyack, N. Y. Airship. No. 1,387,247; Aug. 9; v. 289; p. 325.

Enterprise Railway Equipment Company. (See Campbell, Argyle, assignor.)

Eulberg, Joseph, Alton, Iowa. Wheel and demountable rim. No. 1,387,372; Aug. 9; v. 289; p. 352.

Everett, Edward A., New York, N. Y. Bond-wire support. No. 1,386,854. Aug. 9; v. 289; p. 249.

Ewing, Hugh, Columbus, Ohio. Spring-controlled link for vehicles. No. 1,386,855; Aug. 9; v. 289; p. 249.

Ely, Hanson E., Jr., U. S. Navy. Apparatus for measuring distance. No. 1,386,610; Aug. 9; v. 289; p. 199.

Ely, Hanson E., Jr., U. S. Navy. Telescope. No. 1,386,611; Aug. 9; v. 289; p. 199.

Fackler, Wesley J., Los Angeles, Calif. Oil sight-feed. No. 1,387,248; Aug. 9; v. 289; p. 325.

Fahnestock, Ernest B., deceased; E. M. Jordan and F. H. Burnett, Plandome, N. Y., executors. Electric switch. No. 1,386,694; Aug. 9; v. 289; p. 216.

Fairchild Publishing Co. (See Harmuth, Louis, assignor.)

Farah, Kalil, Brooklyn, N. Y. Folding bed and/or chair. No. 1,386,612; Aug. 9; v. 289; p. 199.

Farley, Walter L. (See Hastings, H. E., Farley, and Sulzer.)

Farnham, Walter H., Bucksport, Me. Snap-fastener. No. 1,387,135; Aug. 9; v. 289; p. 304.

Fasson, Daniel, Rochester, N. Y. Capping-machine. No. 1,387,373; Aug. 9; v. 289; p. 352.

Feldman Machine Works, Inc. (See Kornas, Joseph, assignor.)

Fifield, Albert F. (See Barron, W. L., and Fifield.)

Filson, Emmett L. (See Barber, L., and Filson.)

Finch, John S., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Power-transmitter. No. 1,387,136; Aug. 9; v. 289; p. 304.

Fischer, Ernst G., Washington, D. C. Artificial horizon. No. 1,386,695; Aug. 9; v. 289; p. 216.

Fishback, Yates, Carrollton, Ill. Urinal. No. 1,386,696; Aug. 9; v. 289; p. 216.

Fisher, Frederick J., San Francisco, Calif. Renewable cartridge-fuse. No. 1,387,000; Aug. 9; v. 289; p. 278.

Fisher, Frederick J., San Francisco, Calif. Renewable fuse. No. 1,387,001; Aug. 9; v. 289; p. 278.

Fisher, Louis M., Clarksdale, Mo. Alarm for automobile-jacks. No. 1,387,137; Aug. 9; v. 289; p. 305.

Fitzgerald, Jeremiah C., Kilbourn, Wis. Shaft-hanger. No. 1,387,044; Aug. 9; v. 289; p. 287.

Flanagan, James A., Toronto, Ontario, Canada. Sewing-machine. No. 1,387,138; Aug. 9; v. 289; p. 305.

Flanagan, James A., Toronto, Ontario, Canada. Tension for sewing-machines. No. 1,387,139; Aug. 9; v. 289; p. 305.

Flanagan, James A., Toronto, Ontario, Canada. Stitch controls for sewing-machines. No. 1,387,140; Aug. 9; v. 289; p. 305.

Flanagan, James A., Toronto, Ontario, Canada. Bobbin-winding mechanism for sewing-machines. No. 1,387,141; Aug. 9; v. 289; p. 305.

Flanagan, James A., Toronto, Ontario, Canada. Combined presser-foot and work-guide for sewing-machines. No. 1,387,142; Aug. 9; v. 289; p. 306.

Flanagan, James A., Toronto, Ontario, Canada. Sewing-machine. No. 1,387,143; Aug. 9; v. 289; p. 306.

Flanagan, James A., Toronto, Ontario, Canada. Stitch-forming mechanism for sewing-machines. No. 1,387,144; Aug. 9; v. 289; p. 306.

Flanagan, James A., Toronto, Ontario, Canada. Feeding mechanism for sewing-machines. No. 1,387,145; Aug. 9; v. 289; p. 306.

Fletcher, Harvey, New York, N. Y., and F. J. Strassner, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Testing apparatus. No. 1,386,697; Aug. 9; v. 289; p. 216.

Flinn, Roland L., Alberton, Mont. Alarm for air-brake systems. No. 1,387,002; Aug. 9; v. 289; p. 278.

Floyd Smith Aerial Equipment Company. (See Summers, Otto, assignor.)

Fluck, George. (See Bratt, C. E., and Fluck.)

Fogle, David H., New Brookland, S. C. Yarn-tensioning device for loom-shuttles. No. 1,386,773; Aug. 9; v. 289; p. 232.

Folwell, Philip C., Vancouver, British Columbia, Canada. Umbrella. No. 1,387,146; Aug. 9; v. 289; p. 306.

Foote, James H., Cincinnati, Ohio. Sash-pulley. No. 1,386,774; Aug. 9; v. 289; p. 232.

Ford, Henry, Dearborn, Mich. Dash assembly and controlling device. No. 1,387,147; Aug. 9; v. 289; p. 307.

Forslund, John, Seattle, Wash. Apparatus for transferring mail. No. 1,386,856; Aug. 9; v. 289; p. 249.

Foulder, Henry B., Brooklyn, N. Y., assignor to J. P. Curry Mfg. Co., Inc., Stamford, Conn. Tool for twisting ties. No. 1,387,249; Aug. 9; v. 289; p. 325.

Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,250; Aug. 9; v. 289; p. 326.

Fowler, Clarence B., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,251; Aug. 9; v. 289; p. 326.

Fowler-Williams Company. (See Barnes, John A., assignor.) (Reissue.)

Fox, Alfred G., New Cross, England. Chain grate. No. 1,386,857; Aug. 9; v. 289; p. 249.

Frank, Fred, Dublin, Tex. Wire-stretcher. No. 1,387,374; Aug. 9; v. 289; p. 352.

Fredricks, John, Kings Bridge, assignor to Western Electric Company, Incorporated, New York, N. Y. Test-connector. No. 1,387,252; Aug. 9; v. 289; p. 326.

Freihofer, Charles, Philadelphia, Pa. Vehicle-spring. No. 1,387,375; Aug. 9; v. 289; p. 353.

French, Frank H., Preston, Iowa. Tandem disk harrow. No. 1,386,858; Aug. 9; v. 289; p. 249.

Frey, Herman A., Savoy, Ill. Horseshoe. No. 1,386,613; Aug. 9; v. 289; p. 199.

Fried. Krupp, Aktiengesellschaft. (See Akemann, Walther, assignor.)

Fried. Krupp Aktiengesellschaft. (See Hagelloch, Georg, assignor.)

Fried. Krupp Aktiengesellschaft. (See Sundhaussen, Herman, assignor.)

Friedman, Edward I., Chicago, Ill. Cord-polishing machine and the like. No. 1,387,045; Aug. 9; v. 289; p. 287.

Fries, Maximilian C., assignor to International Motor Company, New York, N. Y. Final drive for motor-vehicles. No. 1,386,614; Aug. 9; v. 289; p. 200.

Frost, Horace L., Elizabethton, Tenn. Pneumatic pump. No. 1,387,376; Aug. 9; v. 289; p. 353.

Fryer, Frederick G., York, England. Beating or threshing machine. No. 1,387,380; Aug. 9; v. 289; p. 354.

Fryer, Frederick G., and B. G. McLellan, York, England. Manufacture of high-class "Fondant" chocolate and similar chocolates. No. 1,387,377; Aug. 9; v. 289; p. 353.

Fryer, Frederick G., and B. G. McLellan, York, England. Manufacture of high-class "Fondant" chocolate and similar chocolates. No. 1,387,378; Aug. 9; v. 289; p. 353.

Fryer, Frederick G., and B. G. McLellan, York, England. Manufacture of high-class "Fondant" chocolate and similar chocolates. No. 1,387,379; Aug. 9; v. 289; p. 353.

Fuhr, Albert B., Macomb, Ill. Vehicle-wheel. No. 1,387,148; Aug. 9; v. 289; p. 307.

Fulford, Marcus F., Fort Worth, Tex. Garment-hanger. No. 1,386,775; Aug. 9; v. 289; p. 232.

Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Polyphase motor. No. 1,387,046; Aug. 9; v. 289; p. 287.

Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Polyphase motor. No. 1,387,047; Aug. 9; v. 289; p. 288.

Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Speed-regulating apparatus. No. 1,387,048; Aug. 9; v. 289; p. 288.

Fynn, Valère A., assignor to Wagner Electric Manufacturing Company, St. Louis, Mo. Voltage-regulating apparatus. No. 1,387,149; Aug. 9; v. 289; p. 307.

Gach, Alfred, and G. Wilcox, assignors to The Interchangeable Wall Case Company, Detroit, Mich. Interchangeable-unit store furniture. No. 1,386,615; Aug. 9; v. 289; p. 200.

Gall, Charles H., assignor to The Shott Manufacturing Company, Cincinnati, Ohio. Bed-spring. No. 1,387,150; Aug. 9; v. 289; p. 307.
Gallagher, Arthur D. (See Heylman, E. M., and Gallagher.)
Gammeter, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-vulcanising method and apparatus. No. 1,387,381; Aug. 9; v. 289; p. 354.
Garnier, Frederick J., St. Helier, Jersey, British Isles. Sliding window. No. 1,386,859; Aug. 9; v. 289; p. 250.
Garrison, Lloyd, Salt Lake City, Utah. Automatic furnace. No. 1,386,698; Aug. 9; v. 289; p. 217.
Gartner, John H. (See Gartner, P. H., and J. H.)
Gartner, Paul H. and J. H., Lava Hot Springs, Idaho. Work and display stand. No. 1,387,253; Aug. 9; v. 289; p. 326.
Gas Research Company, The. (See Smith, Harry F., assignor.)
Gaslorek, Leopold. (See Hazner, F., and Gaslorek.)
Gebhard, Conrad, Munich, Germany, assignor to "Asfag" Aktiengesellschaft, Glarus, Switzerland. Window-operating mechanism. No. 1,387,432; Aug. 9; v. 289; p. 364.
Gelb, Carl A., assignor of one-half to A. Richter, New York, N. Y. Window-cupboard. No. 1,387,382; Aug. 9; v. 289; p. 354.
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,386,776; Aug. 9; v. 289; p. 232.
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Side bearing for railway-cars. No. 1,387,254; Aug. 9; v. 289; p. 326.
General Electric Company. (See Alexanderson, Ernst F. W., assignor.)
General Electric Company. (See Beckert, Albert R., assignor.)
General Electric Company. (See Burnham, Locke H., assignor.)
General Electric Company. (See Clinker, R. C., assignor.)
General Electric Company. (See Dwyer, William O., assignor.)
General Electric Company. (See Hall, Chester I., assignor.)
General Electric Company. (See Heisler, Charles L., assignor.)
General Electric Company. (See Knoderer, Homer G., assignor.)
General Electric Company. (See Lorenz, Charles F., assignor.)
General Eletric Company. (See McKay, John A., assignor.)
General Electric Company. (See McLain, Robert H., assignor.)
General Electric Company. (See Peterson, Charles F., assignor.)
General Electric Company. (See Rushmore, David B., assignor.)
General Electric Company. (See Winston, Earle G., assignor.)
General Indurating Corporation. (See Lander, Wintworth V., assignor.)
General Motors Company. (See Short, Charles R., assignor.)
General Motors Corporation. (See White, John W., assignor.)
General Rubber Goods Co., The. (See Sharkey, Albert E., assignor.)
George Harold M., *et al.* (See Cave, Daniel B., assignor.)
George, Maude S., St. Louis, Mo. Catamenial apron. No. 1,386,777; Aug. 9; v. 289; p. 232.
Giessel, Henry, Chicago, Ill. Water-cooler. No. 1,386,699; Aug. 9; v. 289; p. 217.
Gilbert, Francis R. (See Gilbert, Frank N., assignor.)
Gilbert, Frank N., Binghamton, N. Y., assignor of one-half to F. R. Gilbert, Philadelphia, Pa. Pocket pencil, pen, and pad holder. No. 1,386,700; Aug. 9; v. 289; p. 217.
Gilliam, James W., Pevely, Mo. Gage-adjusting tool. No. 1,387,383; Aug. 9; v. 289; p. 354.
Glaeser, Walter, Brooklyn, assignor, by mesne assignments, to Potash Extraction Corporation, New York, N. Y. Treating phosphate rock. No. 1,387,151; Aug. 9; v. 289; p. 308.
Goddard, George E. (See Dodge, J. F., and Goddard.)
Goddard, James E., assignor of one-half to M. Chonkich, Baltimore, Md. Drive-shaft. No. 1,387,384; Aug. 9; v. 289; p. 354.
Goldsmith, Emanuel O., Memphis, Tenn. Heel-guard and toe-clip. No. 1,387,385; Aug. 9; v. 289; p. 355.
Goodrich, B. F., Company, The. (See Gammeter, John R., assignor.)
Goodrum, Charles L. (See Clausen, H. P., and Goodrum.)
Goodrum, Charles L., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Coin-collect system. No. 1,386,701; Aug. 9; v. 289; p. 217.
Goodrum, Charles L., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,255; Aug. 9; v. 289; p. 327.
Goodrum, Charles L., New York, and H. P. Clausen, Mount Vernon, assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,386; Aug. 9; v. 289; p. 355.
Gott, Winson G. (See Beardmore, Clarence A., assignor.)
Goudie, Le Roy, Kansas City, Mo. Awning. No. 1,386,860; Aug. 9; v. 289; p. 250.
Gould Storage Battery Co. (See Chamberlain, Rufus N., assignor.)
Goulston, George A. (See Smith, Northey V., assignor.)
Graff, Henry E. (See McCarthy, J. H., and Graff.)
Graham, Robert, Cupar, Scotland. Producing bread and other like foodstuffs. No. 1,387,387; Aug. 9; v. 289; p. 355.
Grandich, Felix, New York, N. Y. Cigar and cigarette lighter. No. 1,386,616; Aug. 9; v. 289; p. 200.
Gray, James H., New York, N. Y. Ladle. No. 1,386,702; Aug. 9; v. 289; p. 218.
Gray, Raymond K., assignor to The Graynic Corporation, Chicago, Ill. Locking device. No. 1,386,778; Aug. 9; v. 289; p. 233.
Graynic Corporation, The. (See Gray, Raymond K., assignor.)
Greene, John S., Rochester, N. Y., assignor to Photostat Corporation, Providence, R. I. Photographic camera. No. 1,386,703; Aug. 9; v. 289; p. 218.
Greener, Herman M., Chicago, Ill. Culinary implement. No. 1,386,704; Aug. 9; v. 289; p. 218.
Greenewald, Eugene L. (See Anders, Charles F. P., assignor.)
Greenwood, Maurice, Revere, Mass. Spring-bed. No. 1,387,388; Aug. 9; v. 289; p. 355.
Griffin, James T., Oak Park, and W. A. Timm, Berwyn, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrically-heated container. No. 1,386,705; Aug. 9; v. 289; p. 218.
Griffin, William F., Greenfield, Okla. Portable irrigation apparatus. No. 1,387,256; Aug. 9; v. 289; p. 327.
Groner, Ferdinand, Hillsboro, Oreg. Nut-washing machine. No. 1,387,257; Aug. 9; v. 289; p. 327.
Gunderman, Lester S., Pittsburgh, Pa. Attachment for flexible reel-covers. No. 1,386,617; Aug. 9; v. 289; p. 200.
Gunderson, Benjamin O., Chicago, Ill. Child's chair. No. 1,387,049; Aug. 9; v. 289; p. 288.
Gunnett, George M. and Olen, Frostburg, Md. Nut-lock. No. 1,387,258; Aug. 9; v. 289; p. 327.
Gunnett, Olen. (See Gunnett, George M., and O.)
Häberli, Fritz, Ennetbaden, and J. Kübler, Baden, assignors to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Apparatus for the high-voltage windings of electrical machines. No. 1,387,389; Aug. 9; v. 289; p. 355.
Hadaway, John B., Swampscott, and T. H. Seely, Malden, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Stretching-machine. No. 1,387,450; Aug. 9; v. 289; p. 363.
Hadilsky, Joseph N., Detroit, Mich. Gas-compressor. No. 1,387,259; Aug. 9; v. 289; p. 327.
Hagelloch, Georg, Essen, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Endless-track arrangement for vehicles. No. 1,386,926; Aug. 9; v. 289; p. 263.
Haggenmiller, George T., assignor of one-half to J. Warren, San Francisco, Calif. Adjustable table-leg. No. 1,387,390; Aug. 9; v. 289; p. 355.
Haibleib, Edward A., and T. L. Lee, assignors to North East Electric Company, Rochester, N. Y. Ignition apparatus. No. 1,386,779; Aug. 9; v. 289; p. 233.
Hall, Charles C., assignor to Banner Rock Products Company, Alexandria, Ind. Yielding mat construction. No. 1,387,391; Aug. 9; v. 289; p. 356.
Hall, Chester I., Fort Wayne, Ind., assignor to General Electric Company. Constant-speed motor. No. 1,386,861; Aug. 9; v. 289; p. 250.
Hall, James A. (See McCutchen, U. R., Bryden, and Hall.)
Hall, Leroy W., Minneapolis, Minn. Paint-guard. No. 1,386,706; Aug. 9; v. 289; p. 218.
Hall, Roswell G., Dorchester, and A. Birkholm, Boston, Mass. Cleaning-rod for firearms. No. 1,386,862; Aug. 9; v. 289; p. 250.
Hallam, Edwin A., Portland, Oreg. Motor-truck. No. 1,387,392; Aug. 9; v. 289; p. 356.
Hamilton, John C., Joliet, Ill. Concrete fence. No. 1,386,928; Aug. 9; v. 289; p. 264.
Hand, Thomas W., assignor to Davy Brothers, Limited, Sheffield, England. Tire slabbing and punching press. No. 1,387,260; Aug. 9; v. 289; p. 327.
Hanel, Albert B., Milwaukee, Wis. Dip-net. No. 1,387,393; Aug. 9; v. 289; p. 356.
Hankin, Edward F., Philadelphia, Pa. Electric etching instrument. No. 1,387,394; Aug. 9; v. 289; p. 356.
Hanson, Hans C., assignor to American Gas Machine Company, Albert Lea, Minn. Folding camp-stove. No. 1,387,152; Aug. 9; v. 289; p. 308.
Hardiuge Brothers. (See Rendle, T. A., and Beyer, assignors.)
Hardy, James D., Salt Lake City, Utah. Hammer. No. 1,386,780; Aug. 9; v. 289; p. 233.
Harmuth, Louis, South Orange, N. J., assignor to Fairchild Publishing Co., New York, N. Y. Illustrated code. No. 1,387,261; Aug. 9; v. 289; p. 328.
Harper, Francis B., London, England. Press. No. 1,387,395; Aug. 9; v. 289; p. 356.
Harrington, Clinton O., Chicago, Ill. Electrical insulator. No. 1,386,863; Aug. 9; v. 289; p. 250.

Hartley, Ralph V. L., East Orange, N. J., assignor, by mesne assignments, to Western Electric Company, Incorporated. Receiving apparatus for wave-signaling. No. 1,387,262; Aug. 9; v. 289; p. 328.
Hartman, John G., Yakima, Wash. Box-handling device. No. 1,386,929; Aug. 9; v. 289; p. 264.
Hartmann, Sidney A., St. Louis, Mo. Detergent. No. 1,387,153; Aug. 9; v. 289; p. 308.
Hartog, Stephen D., assignor, by mesne assignments, to Inland Machine Works, St. Louis, Mo. Piston-ring. No. 1,386,707; Aug. 9; v. 289; p. 219.
Hartwig, William G., assignor to Railway Utility Company, Chicago, Ill. Thermostat. No. 1,386,618; Aug. 9; v. 289; p. 200.
Harvey, Walter J., Toronto, Ontario, Canada. Solar motor. No. 1,386,781; Aug. 9; v. 289; p. 233.
Haslinger, Anton, Philadelphia, Pa. Thermal circuit-closer. No. 1,387,050; Aug. 9; v. 289; p. 288.
Hasselbarth-Whiton Co. (See Whiton, Robert P., assignor.)
Hastings, Grover C., Memphis, Tenn. Monument-mold. No. 1,387,263; Aug. 9; v. 289; p. 328.
Hastings, Henry E. W. L., Farley, and A. F. Suiser, assignors to Eastman Kodak Company, Rochester, N. Y. Sealed metallic receptacle. No. 1,386,619; Aug. 9; v. 289; p. 200.
Hathaway, Charles H., West Allis, W. A. Starck, and Leo F. McEvoy, assignors to Badger Manufacturing Corporation, Milwaukee, Wis. Automobile-bumper. No. 1,386,864; Aug. 9; v. 289; p. 251.
Hathaway, Edgar F., Boston, Mass., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Knot-tying implement. No. 1,387,051; Aug. 9; v. 289; p. 288.
Hauff, Fritz. (See Lowenstein, K. P., and Hauff.)
Hayes, George H., Hazelton, Kans. Shock-absorber. No. 1,386,782; Aug. 9; v. 289; p. 234.
Hayman, Harry, Detroit, Mich. Spring-wheel. No. 1,386,927; Aug. 9; v. 289; p. 264.
Hasner, Frank, and L. Gaslorek, Newark, N. J. Rail-fastener. No. 1,387,052; Aug. 9; v. 289; p. 289.
Heck, George D., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental-Equipment stand. No. 1,387,053; Aug. 9; v. 289; p. 289.
Hedges, Edward G., Newark, N. J. Antifouling muffler for flush-pipes. No. 1,387,003; Aug. 9; v. 289; p. 279.
Heilbrenner, Ludwig, Stuttgart, Germany. Making paper and paper-like materials waterproof and impermeable to air, at the same time maintaining their suppleness, and articles made from such materials. No. 1,387,004; Aug. 9; v. 289; p. 279.
Heisel, Rudolph A., Luverne, Minn. Wood-saw. No. 1,387,264; Aug. 9; v. 289; p. 328.
Heisler, Charles L., Schenectady, N. Y., assignor to General Electric Company. Packing. No. 1,386,865; Aug. 9; v. 289; p. 251.
Hemphill, George F. (See Severance, H. W., and Hemphill.)
Henthorn, Oscar, Brown township, Montgomery county, Ind. Fertiliser-feeder for cultivators. No. 1,387,265; Aug. 9; v. 289; p. 329.
Herchen, Arthur, Providence, R. I. Can-opener. No. 1,387,396; Aug. 9; v. 289; p. 357.
Hewett, Walter. (See Wackwitz, Henry E. J., assignor.)
Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,386,866; Aug. 9; v. 289; p. 251.
Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,386,868; Aug. 9; v. 289; p. 251.
Heylman, Edward M., assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,386,869; Aug. 9; v. 289; p. 252.
Heylman, E. M., and A. D. Gallagher, assignor to Oliver Chilled Plow Works, South Bend, Ind. Plow. No. 1,386,870; Aug. 9; v. 289; p. 252.
Heylman, Edward M., L. V. Kingsbury, and L. W. Stickley, assignors to Oliver Chilled Plow Works, South Bend, Ind. Power lift mechanism for plows. No. 1,386,867; Aug. 9; v. 289; p. 251.
Hickman, James T., Jr., Springport, Ind. Power-driven farming implement. No. 1,386,783; Aug. 9; v. 289; p. 234.
Hilger, Adam, Limited. (See Twyman, Frank, assignor.)
Hines, Robert E., Brooklyn, assignor of one-half to A. Tweel, New York, N. Y. Clothesline-support. No. 1,387,266; Aug. 9; v. 289; p. 329.
Hjerpe, Erick. (See Auffurth, E., Jr., and Hjerpe.)
Hobart Manufacturing Company, The. (See Rataiczak, Thomas F., assignor.)
Hochman, Jacob, New York, N. Y. Safety and bobbin-winder attachment for sewing-machines. No. 1,387,005; Aug. 9; v. 289; p. 279.
Hoffman, Frank K., *et al.* (See Snyder, George C., assignor.)
Holdsem Company. (See Calovi, Primo, assignor.)
Holland, Albert E., *et al*, trustees. (See Rockwell, R. L., and Stevens, assignors.)
Holland, Walter E., and J. M. Skinner, assignors to Philadelphia Storage Battery Company, Philadelphia, Pa. Storage-battery grid. No. 1,387,397; Aug. 9; v. 289; p. 357.
Holle, Christian, Jr., San Diego, Calif. Magnifying attachment for slide-rules. No. 1,387,267; Aug. 9; v. 289; p. 329.
Holm, Hans T., Karlstad, Sweden. Wet-barking machine. No. 1,386,930; Aug. 9; v. 289; p. 264.
Holmes, Morris P., Claremont, N. H., assignor to Sullivan Machinery Company. Wheel. No. 1,387,398; Aug. 9; v. 289; p. 357.
Holt Manufacturing Company, The. (See Ball, Charles F., assignor.)
Holt Manufacturing Company, The. (See Norelius, Emil F., assignor.)
Holt Manufacturing Company, The. (See Wickersham, Elmer E., assignor.)
Homberger, Heinrich, Mill Valley, Calif. Oil-ring. No. 1,386,931; Aug. 9; v. 289; p. 264.
Honda, Chikakiyo, Tokyo, Japan. Making paving material from tarry matter. No. 1,386,932; Aug. 9; v. 289; p. 265.
Hopkins, Richard M., New York, N. Y., assignor to American District Telegraph Company, Jersey City, N. J. Signaling device. No. 1,387,399; Aug. 9; v. 289; p. 357.
Hotson-Tait, Isabel, Sydney, New South Wales, Australia. Composition for sealing cans and the like that contain perishable foods. No. 1,386,620; Aug. 9; v. 289; p. 201.
Howe, Ernest G., *et al.*, trustees. (See Rockwell, R. L., and Stevens, assignors.)
Howell, Charles H., Columbus, Ohio. Blowtorch. No. 1,386,871; Aug. 9; v. 289; p. 252.
Hubbard, Arthur O., Minneapolis, Minn. Cot-bed. No. 1,387,154; Aug. 9; v. 289; p. 308.
Huber, Emil, Chester, Pa. Machine for straightening the weft-threads of textile piece goods. No. 1,387,155; Aug. 9; v. 289; p. 308.
Hucal, Wasyl, Chicago, Ill. Intermittent mechanism. No. 1,387,054; Aug. 9; v. 289; p. 289.
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Hudson, Robert F., Richmond, Va. Train-control system. No. 1,387,400; Aug. 9; v. 289; p. 357.
Hughes, Arthur S., Mansfield, Ohio. Self-closing hinge. No. 1,386,621; Aug. 9; v. 289; p. 201.
Hughes, Ross A., Mahnomen, Minn. Bull-pen-gate lock or fastener. No. 1,387,401; Aug. 9; v. 289; p. 358.
Huguenin, Albert, Zurich, Switzerland. Process and device for shortening the time used in removing the debris off the track on driving headings. No. 1,386,622; Aug. 9; v. 289; p. 201.
Hunter Arms Company, The. (See Stafford, Francis A., assignor.)
Hurley, John C., Newark, N. J. Wrench. No. 1,386,708; Aug. 9; v. 289; p. 219.
Hurst, Albert E., assignor to Textile Publishing Company, New York, N. Y. Display device. No. 1,386,623; Aug. 9; v. 289; p. 201.
Hutch, August, Chicago, Ill. Stove-board. No. 1,387,402; Aug. 9; v. 289; p. 358.
Hutchens, Edward. (See Scherner, J., and Hutchens.)
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Igo, Joseph H., and W. T. McKay, Chicago Heights, Ill. Lock for motor-vehicles. No. 1,387,156; Aug. 9; v. 289; p. 308.
Imperial Postmarkers, Limited. (See Robertson, D., and Simpson, assignors.)
Ingersoll-Rand Company. (See Ditson, Jesse, assignor.)
Ingram, Alfred and H., assignors to Ingrams Incorporated, Brooklyn, N. Y. Closure for jars, bottles, and other receptacles. No. 1,386,624; Aug. 9; v. 289; p. 201.
Ingram, Harry. (See Ingram, Alfred and H.)
Ingrams Incorporated. (See Ingram, Alfred and H., assignors.)
Inland Machine Works. (See Hartog, Stephen D., assignor.)
Interchangeable Wall Case Company, The. (See Gach, A., and Wilcox, assignors.)
International Automobile Appliance Corporation. (See Swift, Herbert D., assignor.)
International Cork Company. (See Binder, John, assignor.)
International Motor Company. (See Frins, Maximilian C., assignor.)
International Silver Co. (See Decherd, Constant K., assignor.)
Ivory, James W., Philadelphia, Pa. Tobacco-pipe. No. 1,386,933; Aug. 9; v. 289; p. 265.
Jacoby, Henry C. E., London, England. Dynamo-electric machine. No. 1,386,934; Aug. 9; v. 289; p. 265.
Jahn, B., Manufacturing Company, The. (See Jahn, B., and Kahl, assignors.)
Jahn, Berthold, and E. E. Kahl, assignors to The B. Jahn Manufacturing Company, New Britain, Conn. Staple-binder. No. 1,387,268; Aug. 9; v. 289; p. 329.
Jahn, Berthold, and E. E. Kahl, assignors to The B. Jahn Manufacturing Company, New Britain, Conn. Staple-binder. No. 1387,269; Aug. 9; v. 289; p. 329.
Jahns, William H., Los Angeles, Calif. Piston-ring. No. 1,386,873; Aug. 9; v. 289; p. 252.
Jechort, Celestin E., Lankin, N. D. Daylight tank-loading machine. No. 1,387,403; Aug. 9; v. 289; p. 38.
Jensen, Louis, assignor to United Autographic Register Co., Chicago, Ill. Autographic register. No. 1,386,709; Aug. 9; v. 289; p. 219.
Jodoin, Dieu D., Plainfield, Conn. Picker-check for looms. No. 1,387,404; Aug. 9; v. 289; p. 358.

Johnson, William H., Arlington, N. J. Garter. No. 1,386,935; Aug. 9; v. 289; p. 265.
Johnston, James B., Philadelphia, Pa. Ice-machine. No. 1,386,625; Aug. 9; v. 289; p. 202.
Johnston, John O., Newark, N. J. Wheel. No. 1,386,784; Aug. 9; v. 289; p. 234.
Jones, Ernest H., Canonbury, London, England. Welding and brazing. No. 1,387,157; Aug. 9; v. 289; p. 309.
Jordan, Edith M., *et al.*, executors. (See Fahnestock, Ernest B.)
Jordan, John J. (See Carpenter, William J., assignor.)
Judson, Fred, Fullerton, Nebr. Farm-tractor. No. 1,386,874; Aug. 9; v. 289; p. 253.
Kaase, John, assignor to The Upson Nut Company, Cleveland, Ohio. Mechanism for feeding blanks to metal-working machines. No. 1,387,055; Aug. 9; v. 289; p. 289.
Kahl, Ernest E. (See John, B., and Kahl.)
Kaisling, William, assignor to Kellogg Switchboard and Supply Company, Chicago, Ill. Electrical switch. No. 1,386,626; Aug. 9; v. 289; p. 202.
Kanster, Jacob, Newark, N. J. Washtub-cover. No. 1,387,006; Aug. 9; v. 289; p. 279.
Karich, Rudolf R., Woodhaven, assignor to The American Taximeter Company, New York, N. Y. Counter-operating mechanism for hub-odometers. No. 1,387,056; Aug. 9; v. 289; p. 290.
Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Cultivator. No. 1,387,405; Aug. 9; v. 289; p. 358.
Kaupke, Lee H., assignor to Rock Island Plow Company, Rock Island, Ill. Power-lift lister. No. 1,387,406; Aug. 9. v. 289; p. 359.
Keator, Frank Y., Aurora, assignor of one-half to H. C. Davis, Evanston, Ill. Confection for use as a chewing-gum. No. 1,386,627; Aug. 9; v. 289; p. 202.
Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling and telephone system. No. 1,387,270; Aug. 9; v. 289; p. 330.
Keckler, Charles W., Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,271; Aug. 9; v. 289; p. 330.
Keeling, William O., Franklin, Ind. Piston and piston-ring. No. 1,387,272; Aug. 9; v. 289; p. 330.
Keevan, Raymond H., Cleveland, Ohio. Waste control for flush-tanks. No. 1,386,785; Aug. 9; v. 289; p. 234.
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Kelly, Joseph N., Dayton, Ohio. Steering mechanism. No. 1,386,710; Aug. 9. v. 289; p. 219.
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Kelly, Thomas J., Philadelphia, Pa. Folding-bed structure. No. 1,386,628; Aug. 9; v. 289; p. 202.
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Kern, Albert L., Aurora, Ill. Tool-support. No. 1,386,629; Aug. 9; v. 289; p. 203.
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King, William A., Memphis, Tenn. Automobile-hood. No. 1,387,407; Aug. 9; v. 289; p. 359.
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Kinsman, Charles T., Binghamton, N. Y. Bunsen burner. No. 1,386,630; Aug. 9; v. 289; p. 203.
Kirby, Charles H., assignor to Detroit Lubricator Company, Detroit, Mich. Carbureter. No. 1,387,275; Aug. 9; v. 289; p. 331.
Kirchhoff, William G. (See Baule, A. B., and Kirchhoff.)
Kirkham, Charles B., Nassau Boulevard, N. Y., assignor, by mesne assignments, to Curtiss Aeroplane and Motor Corporation. Pump. No. 1,386,787; Aug. 9; v. 289; p. 235.
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Knoderer, Homer G., Englewood, N. J., assignor to General Electric Company. Conduit-body angle-adapter. No. 1,386,877; Aug. 9; v. 289; p. 253.
Kock, Birger, Stockholm, Sweden. Integrating heat-quantity meter. No. 1,386,937; Aug. 9; v. 289; p. 265.
Koerbitz, Fritz, San Francisco, Calif. Sound-reproducer mounting. No. 1,387,410; Aug. 9; v. 289; p. 360.
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Kornas, Joseph, Linden, N. J., assignor to Feldman Machine Works, Inc. Sewing-machine drive. No. 1,386,632; Aug. 9; v. 289; p. 203.
Krampits, Robert A. W., Valdez, Alaska. Rock-drilling machine. No. 1,386,633; Aug. 9; v. 289; p. 203.
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Kudo, Harold M., Honolulu, Hawaii. Landing-gear for aeroplanes. No. 1,387,057; Aug. 9; v. 289; p. 290.
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Lally, George W., assignor to The Lally Commercial Body Company, Boston, Mass. Combined dumping and rear-end-elevating vehicle body. No. 1,387,413; Aug. 9; v. 289; p. 360.
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Lander, Wintworth V., Newton, Mass., assignor to General Indurating Corporation, New York, N. Y. Composition for impregnating porous material. No. 1,386,711; Aug. 9; v. 289; p. 219.
Larsaen, Lars A., Boston, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,105; Aug. 9; v. 289; p. 299.
Larssen, Lars A., Boston, assignor to Carr Fastener Company, Cambridge, Mass. Separable fastener. No. 1,387,106; Aug. 9; v. 289; p. 300.
Lavington, George L., East Ham, assignor of one-half to A. Willis, Winchmore Hill, England. Life-saving guard for steam and motor road vehicles. No. 1,386,938; Aug. 9; v. 289; p. 266.
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Lawton, Eugene W. (See Trolle, Louis, assignor.)
Layman, Hebron B., assignor to The Layman Pressed Rod Company, Inc., New York, N. Y. Connecting-rod. No. 1,387,277; Aug. 9; v. 289; p. 331.
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Lee, Henry J., London, England. Locking device. No. 1,387,442; Aug. 9; v. 289; p. 366.
Lee, Thomas L. (See Halbleib, E. A., and Lee.)
Lee, W. F. (See Roelker, Carl J., assignor.)
Lee, Walker C., Loudonville, Ohio. Mirror-support. No. 1,387,415; Aug. 9; v. 289; p. 360.
Leinweber, Curtis H., *et al.*, executors. (See Leinweber, Frederick H.)
Leinweber, Frederick H., deceased. Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber, executors. Airship. No. 1,386,712; Aug. 9; v. 289; p. 220.
Leinweber, Frederick H., deceased, Chicago, Ill.; C. H. Leinweber, W. H. Leinweber, and V. H. Leinweber, executors. Airship. No. 1,386,713; Aug. 9; v. 289; p. 220.
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Leitch, Meredith, Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Yieldable bearing for centrifugal machines. No. 1,387,158; Aug. 9; v. 289; p. 309.
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Leveridge, Walter J., Mount Vernon, assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube holder. No. 1,386,714; Aug. 9; v. 289; p. 220.
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Lewellen, Darcy E., assignor to Lewellen Manufacturing Company, Columbus, Ind. Frame construction. No. 1,386,939; Aug. 9; v. 289; p. 266.
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Lewin, Martha, New York, N. Y. Curtain-fixture. No. 1,386,715; Aug. 9; v. 289; p. 220.
Lilibridge, Duane M., St. Charles, Ill. Goal for athletic games. No. 1,387,418; Aug. 9; v. 289; p. 361.
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Lisnore, Mitchell. (See Altsitzer, Isadore L., assignor.)
Lively, Louis P., Bonham, Tex. Bagging-cutter. No. 1,386,940; Aug. 9; v. 289; p. 266.
Livesay, Clyde C. (See Luckett, J. S., and Livesay.)
Ljungström, Fredrik, Brevik, Lidingön, Sweden, assignor to Aktiebolaget Ljungstroms Angturbin, Skärsätra, Sweden. Dashpot. No. 1,386,879; Aug. 9; v. 289; p. 254.
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Loeffler, Fred W., Irondequoit, N. Y., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric switch. No. 1,387,419; Aug. 9; v. 289; p. 361.
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Lombard, Nathaniel, assignor to Lombard Carburetor Company, Worcester, Mass. Carbureter. No. 1,387,420; Aug. 9; v. 289; p. 361.
Long, Claude L., and C. Schmaus, assignors to The Crawford, McGregor and Canby Co., Dayton, Ohio. Cutter-head for woodworking-machines. No. 1,387,278; Aug. 9; v. 289; p. 331.
Loomer, Henry M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Grinding-machine for rotary cutters. No. 1,386,638; Aug. 9; v. 289; p. 204.
Lorain Rubber Heel Company, The. (See Damon, George N., assignor.)
Lorenz, Charles F., Cleveland, Ohio, assignor to General Electric Company. Frosted glass and making the same. No. 1,386,880; Aug. 9; v. 289; p. 254.
Löwenstein, Karl, Prince zu, Neckargemünd, and F. Hauff, Stuttgart, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc. Producing nitrogen-containing compounds. No. 1,386,941; Aug. 9; v. 289; p. 266.
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Luckenbach, Royer, Brooklyn, N. Y., assignor to Luckenbach Processes, Inc., San Francisco, Calif. Frothing and mineral selective agent and using the same. No. 1,386,716; Aug. 9; v. 289; p. 220.
Luckett, James S., and C. C. Livesay, Toronto, Ontario, Canada. Desk-tray. No. 1,386,717; Aug. 9; v. 289; p. 221.
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Luger, Maximilian, Robbinsdale, Minn. Power-cultivator. No. 1,387,279; Aug. 9; v. 289; p. 332.
Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-compressing machine. No. 1,386,639; Aug. 9; v. 289; p. 204.
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Lux, Paul, assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Alarm-clock. No. 1,386,881; Aug. 9; v. 289; p. 254.
McAllister, George L., Omaha, Nebr. Grain-car door. No. 1,387,059; Aug. 9; v. 289; p. 290.
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McCarthy, John H., and H. E. Graff, Lyons, N. Y., assignors to The McCarthy Novelty Company, Whitehall, N. Y. Toy cart. No. 1,387,281; Aug. 9; v. 289; p. 332.
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McClay, David O., *et al.*, trustees. (See Rockwell, R. L., and Stevens, assignors.)
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McConal, William, San Saba, Tex. Harrow. No. 1,387,008; Aug. 9; v. 289; p. 280.
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McCullough, William D., and T. Mahoney, assignors to Premier Cushion Spring Company, Detroit, Mich. Upholstery-spring construction. No. 1,387,160; Aug. 9; v. 289; p. 309.
McCutchen, Uriah R., assignor of one-third to J. A. Bryden and one-third to J. A. Hall, Springfield, Ill. Gasolene service-station. No. 1,387,421; Aug. 9; v. 289; p. 330.
McDougal, Taine G., assignor to Champion Ignition Company, Flint, Mich. Spark-plug. No. 1,386,883; Aug. 9; v. 289; p. 255.
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McGee, William H., Austin, Tex. Charcoal-burning apparatus. No. 1,387,060; Aug. 9; v. 289; p. 200.
McGregor, Roy, Miami, Ariz. Can-holder. No. 1,387,422; Aug. 9; v. 289; p. 362.
McGuigan, Josiah W., and W. C. Roy, Dearborn, Mich. Valve seater and trimmer. No. 1,386,640; Aug. 9; v. 289; p. 205.
McKay, John A., New York, N. Y., assignor to General Electric Company. Electrical-fittings connection. No. 1,386,884; Aug. 9; v. 289; p. 255.
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McKean, Donald J. (See Woolley, H. M., and McKean.)
McLain, Robert H., Schenectady, N. Y., assignor to General Electric Company. Motor control for hoists. No. 1,386,885; Aug. 9; v. 289; p. 255.
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McLeod, Angus and A. T., Chicago, Ill. Automatic scale. No. 1,386,790; Aug. 9; v. 289; p. 235.
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McTighe, Cumian J., Cedar Canyon, S. D. Truck-body tilting or dumping device. No. 1,387,423; Aug. 9; v. 289; p. 362.
McQuarrie, James L., Montclair, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,282; Aug. 9; v. 289; p. 332.
McQuillan, Claude H., Green Bay, Wis. Film-feed apparatus for projection devices. No. 1,387,283; Aug. 9; v. 289; p. 333.
MacDougal, Harry W., East Orange, and H. D. MacPherson, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,284; Aug. 9; v. 289; p. 333.
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MacPherson, Hugh D. (See MacDougal, H. W., and MacPherson.)
MacPherson, Hugh D., Summit, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,386,719; Aug. 9; v. 289; p. 221.
Mackay, Philip A., New York, N. Y. Obtaining iron and tin from tin scrap. No. 1,387,443; Aug. 9; v. 289; p. 366.
Macy, Alfred J., Chicago, Ill., assignor to Macy Art Process Corporation. Stereoscopic picture. No. 1,386,720; Aug. 9; v. 289; p. 221.
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Madden, John, and E. J. Canfield, Detroit, Mich. Spring-manipulating tool. No. 1,386,721; Aug. 9; v. 289; p. 221.
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Maire, Auguste, Argenteuil, France, assignor to Societe Lorraine Des Anciens Etablissements De Dietrich & Cie., De Luneville, Paris, France. Apparatus for driving magnetos in connection with internal-combustion engines. No. 1,387,285; Aug. 9; v. 289; p. 333.
Major, Ralph M., Bloomfield, assignor to Driver-Harris Company, Harrison, N. J. Cyanid-furnace. No. 1,387,286; Aug. 9; v. 289; p. 333.
Malimquist, Adolph K., assignor to Deming & Gould Company, South Bellingham, Wash. Canning. No. 1,386,887; Aug. 9; v. 289; p. 255.
Margraf, Willy, New York, N. Y. Weather-indicator. No. 1,387,287; Aug. 9; v. 289; p. 334.
Marino, Michael, New York, N. Y. Lock. No. 1,386,641; Aug. 9; v. 289; p. 205.
Marshall, George G., Cleveland Heights, Ohio. Air-circulation-controlling device for automobile-radiators. No. 1,387,062; Aug. 9; v. 289; p. 391.
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Mather, George E., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Diaphragm. No. 1,386,722; Aug. 9; v. 289; p. 222.
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Matsuzaki, Shinich, Tokyo, Japan. Brush. No. 1,387,063; Aug. 9; v. 289; p. 291.
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Medcoff, Franklin E., Coloma, Mich. Can-straightening machine. No. 1,386,942; Aug. 9; v. 289; p. 266.
Megathlin, Ralph S., Somerville, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-building machine. No. 1,386,642; Aug. 9; v. 289; p. 205.
Menefee, Harry R., Glen Ridge, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Support. No. 1,387,288; Aug. 9; v. 289; p. 333.
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Mergenthaler Linotype Company. (See Nielsen, Sigurd C., assignor.)
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Merritt, Matthew M., Danvers, assignor to Copper Products Company, Boston, Mass. Reflector. No. 1,387,424; Aug. 9; v. 289; p. 362.

Merritt, Matthew M., South Middleton, assignor to Merritt Metals Company, Salem, Mass. Electrolytic process and apparatus. No. 1,387,425; Aug. 9; v. 289; p. 362.
Merritt, Matthew M., South Middleton, assignor to Merritt Metals Company, Salem, Mass. Soldering aluminum. No. 1,387,426; Aug. 9; v. 289; p. 363.
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Milkey, Lester E., Sandusky, Ohio. Paper-making machine. No. 1,387,061; Aug. 9; v. 289; p. 291.
Miller, Fred J., Silver City, Iowa. Fruit-picker. No. 1,387,064; Aug. 9; v. 289; p. 291.
Miller, Otto A., Detroit, Mich. Wheel-dressing tool. No. 1,387,427; Aug. 9; v. 289; p. 363.
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Mironchuk, Nestor, New York, N. Y. Meat-roaster. No. 1,386,643; Aug. 9; v. 289; p. 205.
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Moffitt, Edward P., Minneapolis, Minn. Phonograph. No. 1,386,892; Aug. 9; v. 289; p. 257.
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Momitsa, Nichola Y., Crestline, Ohio. Machine for removing cores from pneumatic-tire casings. No. 1,386,644; Aug. 9; v. 289; p. 205.
Montgomery, Nicholas E., Blackfoot, Idaho. Grip-chain for autovehicles. No. 1,387,429; Aug. 9; v. 289; p. 363.
Moore, Ninian R., Dubois, Pa. Automobile camp-trailer. No. 1,386,943; Aug. 9; v. 289; p. 267.
Moore, William E., Beaver Falls, assignor to The Pittsburgh Engineering Works, Pittsburgh, Pa. Electrically-heated strip and wire tempering and annealing device. No. 1,386,645; Aug. 9; v. 289; p. 205.
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Morlok, William, assignor to L. A. Prouty Company, Incorporated, Philadelphia, Pa. Faucet. No. 1,386,646; Aug. 9; v. 289; p. 206.
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Morse, Charles S., Roland Park, Md., assignor to Baltimore Tube Company, Incorporated. Billet and method and means for casting the same. No. 1,387,290; Aug. 9; v. 289; p. 334.
Morse, Charles S., Roland Park, Md., assignor to Baltimore Tube Company, Incorporated. Method and means for billet-casting. No. 1,387,291; Aug. 9; v. 289; p. 335.
Morse, Charles S., Roland Park, Md., assignor to Baltimore Tube Company, Incorporated. Method and means for billet-casting. No. 1,387,292; Aug. 9; v. 289; p. 335.
Morse, Charles S., Roland Park, Md., assignor to Baltimore Tube Company, Incorporated. Method and means for billet-casting. No. 1,387,293; Aug. 9; v. 289; p. 335.
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Myers, Parke G., Cairo, assignor to The Automatic Signal & Sign Company, Canton, Ohio. Danger-signal. No. 1,386,893; Aug. 9; v. 289; p. 257.
Myrmo, Ole, Hobart, Wash. Choker-hook. No. 1,386,894; Aug. 9; v. 289; p. 257.
Nassano, Americo, San Francisco, Calif. Sealing envelops. No. 1,387,164; Aug. 9; v. 289; p. 310.
National Binding Machine Company. (See Anable, Frederick S., assignor.)
National Screw and Tack Company, The. (See Barber, L., and Filson, assignors.)
National Supply Company, The. (See Wright, Clyde S., assignor.)
Needham, John T., Bayonne, N. J. Rotary blower. No. 1,386,792; Aug. 9; v. 289; p. 236.
Negrete, Julio G. (See Soler, R. A., and Negrete.)
Nelson, Albert H., assignor to Babcock-Davis Corporation, Boston, Mass. Rotary pump. No. 1,387,296; Aug. 9; v. 289; p. 336.
Nelson, Lawrence C., Detroit, Mich., and J. C. Polan, Berwyn, assignors to McAvoy Manufacturing Company, Chicago, Ill. Automobile-curtain window. No. 1,386,793; Aug. 9; v. 289; p. 236.
Neumaier, John, Dayton, Ohio. Protractor. No. 1,387,297; Aug. 9; v. 289; p. 336.
Newberry, Albert E., Quincy, Ill. Piston-ring clamp. No. 1,386,944; Aug. 9; v. 289; p. 267.
Newman, Albert T., Emporia, Kans. Dry-cleaning apparatus. No. 1,386,647; Aug. 9; v. 289; p. 206.
Newton, Otis S., Columbus, Ohio. Grease-gun. No. 1,386,648; Aug. 9. v. 289; p. 206.
Niagara Sprayer Co. (See Tower, M. L., and Begtrup, assignors.)
Nielsen, Sigurd C., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, Typographical machine. No. 1,386,794; Aug. 9; v. 289; p. 236.
Nikiel, Stefan, New York, N. Y. Fire-alarm apparatus. No. 1,386,649; Aug. 9; v. 289; p. 206.
Nomi, Konosuke, Kitatoshima-gun, Japan. Utilization of petroleum-pitch. No. 1,386,945; Aug. 9; v. 289; p. 267.
Norelius, Emil F., Peoria, Ill., assignor to The Holt Manufacturing Company, Stockton, Calif. Transmission mechanism for tractors. No. 1,387,009; Aug. 9; v. 289; p. 280.
Norris, Paul E., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Separator for storage batteries. No. 1,386,650; Aug. 9; v. 289; p. 207.
Norris, Paul E., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Terminal structure for electric batteries. No. 1,386,946; Aug. 9; v. 289; p. 267.
Norristown Magnesia and Asbestos Co. (See Burgstresser, Abram K., assignor.)
North East Electric Company. (See Halbleib, E. A., and Lee, assignors.)
Norton, James A., Odebolt, Iowa. Irrigating apparatus. No. 1,387,165; Aug. 9; v. 289; p. 310.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chasy, N. Y. Coupling-release mechanism. No. 1,386,706; Aug. 9; v. 289; p. 237.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chasy, N. Y. Coupling-release mechanism. No. 1,386,707; Aug. 9; v. 289; p. 237.
O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chasy, N. Y. Friction shock-absorbing mechanism. No. 1,386,795; Aug. 9; v. 289; p. 237.
Odom, Blaine W., Dallas, Tex. Fountain-pen-blotting attachment. No. 1,387,298; Aug. 9; v. 289; p. 336.
Oesterreichische Waffenfabriksgesellschaft. (See Duffek, Josef, assignor.)
Oliver Chilled Plow Works. (See Heylman, E. M., and Gallagher, assignors.)
Oliver Chilled Plow Works. (See Heylman, E. M., Kingsbury, and Stickley, assignors.)
Oliver Chilled Plow Works. (See Heylman, Edward M., assignor.)
Oliver, John W., New York, N. Y. Thread guide and support. No. 1,387,299; Aug. 9; v. 289; p. 336.
Oliver, John W., New York, N. Y., and H. Brucker, Newark, N. J. Thread guide and support. No. 1,387,300; Aug. 9; v. 289; p. 337.
Olson, Carl P., Irvington, N. J. Process of and apparatus for the manufacture and handling of metallic-leaf films. No. 1,387,068; Aug. 9; v. 289; p. 292.
Olson, William T. (See De Fore, Thomas M., assignor.)
Olsson, Charles, Milwaukee, Wis. Storage battery. No. 1,386,895; Aug. 9; v. 289; p. 257.
Onepiece Bifocal Lens Company. (See Bugbee, Lucian W.)
Osborne, Evan E., Los Angeles, Calif. Lubricated stuffing-box. No. 1,387,301; Aug. 9; v. 289; p. 337.
Ostrom, Freeland W., Newark, and I. F. Webb, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Filled-sack-sewing apparatus. No. 1,387,069; Aug. 9; v. 289; p. 292.
Ostwald, Walter, Grossbothen, near Leipsig, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing nitrogen compounds during the dry distillation of nitrogenous fuel. No. 1,386,723; Aug. 9; v. 289; p. 222.
Owens, Thomas S., Toledo, Ohio. Apparatus for drawing sheet-glass. No. 1,386,724; Aug. 9; v. 289; p. 222.
P & M Company, The. (See Poor, Fred A., assignor.)
Packard Motor Car Company. (See Vincent, Jesse G., assignor.)
Page, Peter, Pawtucket, R. I. Safety-lock for windows and the like. No. 1,387,302; Aug. 9; v. 289; p. 337.
Pageau, François, Montreal, Quebec, Canada. Boot and shoe. No. 1,386,651; Aug. 9; v. 289; p. 207.
Palmer, Joel C. R., New Rochelle, assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,386,725; Aug. 9; v. 289; p. 222.
Panian, Martin, Eveleth, Minn. Cobbler's cabinet. No. 1,387,303; Aug. 9; v. 289; p. 357.
Paque, Edward J., assignor to The Pollak Steel Company, Cincinnati, Ohio. Machine for forging articles from metal blanks. No. 1,386,726; Aug. 9; v. 289; p. 222.
Park, Russell J., St. Louis, Mo. Artificial tooth. No. 1,386,798; Aug. 9; v. 289; p. 237.
Parsons, Charles A., S. S. Cook, and L. M. Douglas, Newcastle-upon-Tyne, England; said Douglas assignor to said Parsons. Turbine-blade attachment. No. 1,387,304; Aug. 9; v. 289; p. 338.
Parsons, Frederick W., Cleveland, Ohio. Turret-lathe. No. 1,387,305; Aug. 9; v. 289; p. 338.
Patton, John E., New York, N. Y. Pillow. No. 1,386,652; Aug. 9; v. 289; p. 207.
Pawling & Harnischfeger Company. (See Brown, Howard S., assignor.)

Pazos-Martines, Richard, Venice, Calif. Internal-combustion turbines. No. 1,387,166; Aug. 9; v. 289; p. 310.
Peck, Arthur S., assignor to Lawrence Paper Manufacturing Company, Lawrence, Kans. Caddy-box. No. 1,387,167; Aug. 9; v. 289; p. 311.
Peck, Wilfred J. (See Bollinger, Frederick P., assignor.)
Pehrsson, Daniel F., Buffalo, N. D. Grain-sleve. No. 1,387,306; Aug. 9; v. 289; p. 338.
Peterson, C. Petrus, et al. (See Cave, Daniel B., assignor.)
Peterson, Charles F., Schenectady, N. Y., assignor to General Electric Company. Process and apparatus for the manufacture of sheets by aggregation of flake materials. No. 1,386,896; Aug. 9; v. 289; p. 258.
Petty, William E., Providence township, Buena Vista county, Iowa. Drier. No. 1,387,168; Aug. 9; v. 289; p. 311.
Pfleumer, Fritz and H., Dresden, Germany, assignors, by mesne assignments, to The Chemical Foundations Inc. Treatment of lumber. No. 1,386,727; Aug. 9; v. 289; p. 222.
Pfleumer, Herman. (See Pfleumer, Fritz and H.)
Philadelphia Bronze Bearing & Tube Company. (See Small, George A., assignor.)
Philadelphia Storage Battery Company. (See Holland, W. E., and Skinner, assignors.)
Photostat Corporation. (See Greene, John S., assignor.)
Pierce Wrapping Machine Company. (See Scherner, J., and Hutchens, assignors.)
Pierson, William D., assignor to The Waterbury Farrel Foundry and Machine Company, Waterbury, Conn. Wire-drawing machine. No. 1,387,169; Aug. 9; v. 289; p. 311.
Piette, Olivier, Paris, France, assignor to Société Anonyme des Fours à Coke Semet-Solvay & Piette. Horizontal coking oven. No. 1,386,799; Aug. 9; v. 289; p. 237.
Piggott, Derwood L. (See Wyss, Russell L., assignor.)
Pillinger, Gilbert C. (See Sunderland, L., and Pillinger.)
Pitman, Henry L., East Orange, N. J., assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,386,653; Aug. 9; v. 289; p. 207.
Pitot, Léon A. (See Rousseau, F. P. A., and Pitot.)
Pittsburgh Engineering Works, The. (See Moore, William E., assignor.)
Plant, Ray C. (See Barnard, Ray D., assignor.)
Pohlmann, Herman H., St. Louis, Mo. Mask. No. 1,387,307; Aug. 9; v. 289; p. 338.
Poindexter and Company. (See Poindexter, Robert W., assignor.)
Poindexter, Robert W., Los Angeles, Calif., assignor to Poindexter and Company. Producing hydrocyanic acid. No. 1,387,170; Aug. 9; v. 289; p. 311.
Polan, Joseph C. (See Nelson, L. C., and Polan.)
Polinkowsky, Lipa, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,171; Aug. 9; v. 289; p. 312.
Polinkowsky, Lipa, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,386,728; Aug. 9; v. 289; p. 223.
Pollak Steel Company, The. (See Paque, Edward J., assignor.)
Poor, Fred A., assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,386,800; Aug. 9; v. 289; p. 238.
Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,386,654; Aug. 9; v. 289; p. 207.
Potash Extraction Corporation. (See Glaeser, Walter, assignor.)
Post, Truman W., assignor to Arms Products Company, New York, N. Y. Attachment for firearms. No. 1,387,308; Aug. 9; v. 289; p. 339.
Postel, Arthur F. and C. J. R., assignors of one-fourth to H. C. Krom and C. D. Lockman, Indianapolis, Ind. Bolt-lock. No. 1,387,172; Aug. 9; v. 289; p. 312.
Postel, Charles J. R. (See Postel, Arthur F. and C. J. R.)
Pouget, Marcellin, Detroit, Mich. Speed-changing power-transmission device. No. 1,387,070; Aug. 9; v. 289; p. 292.
Powell, William E. C., Chicago, Ill. Convertible washing-machine. No. 1,387,173; Aug. 9; v. 289; p. 312.
Powell, Winfred T., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Machine-switching telephone system. No. 1,387,174; Aug. 9; v. 289; p. 312.
Prater, Leonard L., Denver, Colo. Can-rack. No. 1,387,309; Aug. 9; v. 289; p. 339.
Preble, Edwin N., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-support for shoe-leveling machines. No. 1,386,655; Aug. 9; v. 289; p. 208.
Premier Cushion Spring Company. (See McCullough, W. D., and Mahoney, assignors.)
Price, Charles P., assignor to American Tar Company, Boston, Mass. Spraying apparatus. No. 1,387,071; Aug. 9; v. 289; p. 293.
Price, Frank G., Scotstoun, Glasgow, Scotland. Apparatus for consolidating granular substances in molds or other receptacles. No. 1,387,175; Aug. 9; v. 289; p. 312.
Price, Theodore H., B. C. White, New York, and W. J. Dudley, Brooklyn, N. Y.; said White and Dudley assignors to said Price. Cotton-picker. No. 1,387,176; Aug. 9; v. 289; p. 312.
Prouty, L. A., Company. (See Morlok, William, assignor.)
Putnam, Benjamin W., Jamaica Plain, Mass. Apparatus for treating textiles and other materials. No. 1,387,072; Aug. 9; v. 289; p. 293.
Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,387,010; Aug. 9; v. 289; p. 280.
Quigley, John T., assignor to Costmeter Company, Boston, Mass. Filing and indexing equipment. No. 1,387,310; Aug. 9; v. 289; p. 339.
Quinn, Joseph J., Philadelphia, assignor to Consolidated Expanded Metal Companies, Braddock, Pa. Floor-socket. No. 1,386,947; Aug. 9; v. 289; p. 267.
Railway Utility Company. (See Hartwig, William G., assignor.)
Ramsey, George, assignor to Anchor Cap & Closure Corporation, Brooklyn, N. Y. Sinuous-bead friction-seal. No. 1,386,729; Aug. 9; v. 289; p. 223.
Rataiczak, Thomas F., assignor to The Hobard Manufacturing Company, Troy, Ohio. Finger-guard. No. 1,386,801; Aug. 9; v. 289; p. 238.
Ratcliff, Arthur, Chicago, Ill. Composition board. No. 1,387,011; Aug. 9; v. 289; p. 280.
Raynsford, Arthur, assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,386,730; Aug. 9; v. 289; p. 223.
Read, Harry S., East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Vacuum-tube repeater-circuits. No. 1,386,731; Aug. 9; v. 289; p. 223.
Reboul, Edward A., Philadelphia, Pa. Train-controlling mechanism. No. 1,386,656; Aug. 9; v. 289; p. 208.
Reddig, Charles E., Kew Gardens, assignor to Western Electric Company, Incorporated, New York, N. Y. Flexible shaft-coupling. No. 1,387,177; Aug. 9; v. 289; p. 313.
Redford, Philip H. W., Providence, R. I. Card-holder. No. 1,386,657; Aug. 9; v. 289; p. 208.
Regenstein, Joseph, Chicago, Ill. Door-panel and the like. No. 1,387,311; Aug. 9; v. 289; p. 339.
Regenstein, Joseph, Chicago, Ill. Door-panel and the like. No. 1,387,312; Aug. 9; v. 289; p. 339.
Reid, James, Watertown, and A. M. Leahy, Somerville, Mass. Detachable chain-link. No. 1,386,732; Aug. 9; v. 289; p. 223.
Reilley, Edward P., Cleveland, Ohio. Combination multiple valve and lock. No. 1,387,073; Aug. 9; v. 289; p. 293.
Rembert, William E., Gilliam, La. Sample-taking drill. No. 1,386,802; Aug. 9; v. 289; p. 238.
Rendle, Thomas A., and A. Beyer, assignors to Hardinge Brothers, Inc., Chicago, Ill. Watchman's clock. No. 1,387,178; Aug. 9; v. 289; p. 313.
Renner, Georg, Dusseldorf, Germany. Flush-cistern. No. 1,386,948; Aug. 9; v. 289; p. 267.
Rey, Henri D., Avarua, Raratonga, New Zealand. Wheel. No. 1,387,179; Aug. 9; v. 289; p. 313.
Reynolds, John N. (See Bullard, A. M., and Reynolds.)
Reynolds, John N., Greenwich, Conn., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone system. No. 1,387,180; Aug. 9; v. 289; p. 313.
Rhodes, William A., New York, N. Y., and F. E. Anderson, Newark, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,387,181; Aug. 9; v. 289; p. 314.
Rice, Frank E., assignor to American Tap Bush Co., Detroit, Mich. Tap-attaching device. No. 1,386,949; Aug. 9; v. 289; p. 268.
Rice, Sherwood P., and M. E. Michell, Detroit, Mich. Radiator-cap lock. No. 1,387,313; Aug. 9; v. 289; p. 340.
Richter, Alfred. (See Gelb, Carl A., assignor.)
Rifkin, Jacob, Wilkes-Barre, Pa. Union-garment. No. 1,386,950; Aug. 9; v. 289; p. 268.
Ringe, John C., Bridgeport, Conn., assignor to The Singer Manufacturing Company. Strip-severing device for sewing-machines. No. 1,387,012; Aug. 9; v. 289; p. 280.
Risser, Charles E., assignor to The Crawford, McGregor and Canby Company, Dayton, Ohio. Contouring-machine. No. 1,387,182; Aug. 9; v. 289; p. 314.
Rives, George H., New York, N. Y. Adjustable pedal extension. No. 1,386,951; Aug. 9; v. 289; p. 268.
Robbins, Frank, Clifton Hill, Victoria, Australia. Machine for removing the cores and stones from fruit. No. 1,387,183; Aug. 9; v. 289; p. 314.
Robertson, Charles J. (See Robertson, John D., assignor.)
Robertson, Donald, and R. M. Simpson, assignors to Imperial Postmarker's Limited, Wellington, New Zealand. Mail-marking machine. No. 1,386,952; Aug. 9; v. 289; p. 268.
Robertson, John D., assignor to C. J. Robertson, Taunton, Mass. Speedometer. No. 1,386,953; Aug. 9; v. 289; p. 269.
Robinson, Jesse T., Birmingham, Ala. Carbureter. No. 1,387,013; Aug. 9; v. 289; p. 281.
Rock Island Plow Company. (See Kaupke, Lee H., assignor.)
Rockwell, Robert L., and H. R. Stevens, assignors, by mesne assignments, to R. A. McClure, J. N. Bialock, A. E. Holland, D. O. McClay, and E. G. Howe, trustees, Seattle, Wash. Electrical limit-switch. No. 1,386,897; Aug. 9; v. 289; p. 258.

Roelker, Carl J., assignor of one-fourth to W. F. Lee, Richmond, Va. Roadbed construction. No. 1,387,184; Aug. 9; v. 289; p. 314.

Roganson, David E., Branford, Conn. Clothesline device. No. 1,387,074; Aug. 9; v. 289; p. 293.

Rosen, Louis W., and P. Brauner, assignors to A. E. Brion, New York, N. Y. Film-shifting device for cameras. No. 1,386,733; Aug. 9; v. 289; p. 224.

Rosenbaum, Harry, New York, N. Y. Dish-washing apparatus. No. 1,386,734; Aug. 9; v. 289; p. 224.

Rothwell, Charles F., Columbus, Mont. Basket. No. 1,387,185; Aug. 9; v. 289; p. 314.

Roush, Franklin E., Dayton, Ohio. Automobile-lock. No. 1,387,314; Aug. 9; v. 289; p. 340.

Rousseau, François P. A., and L. A. Pitot, Paris, France. Railway-sleeper. No. 1,386,954; Aug. 9; v. 289; p. 269.

Roy, Wesley C. (See McGuigan, J. W., and Roy.)

Rueger, Charles C., Benicia, Calif. Ore-concentrator. No. 1,387,075; Aug. 9; v. 289; p. 293.

Rushmore, Davis B., Schenectady, N. Y., assignor to General Electric Company. Protection of systems of distribution. No. 1,386,898; Aug. 9; v. 289; p. 258.

Ryder, Charles D., Covington, Ky., assignor to The Corcoran Victor Company, Cincinnati, Ohio. No. 1,386,803; Aug. 9; v. 289; p. 238.

Samuel, Herman, Stockholm, Sweden. Measuring instrument. No. 1,386,899; Aug. 9; v. 289; p. 258.

Sanders, Newell, Chattanooga, Tenn. Power-lift for plows. No. 1,386,955; Aug. 9; v. 289; p. 269.

Sanders, Ralph L., Pleasantville, N. J. Floating knife. No. 1,386,956; Aug. 9; v. 289; p. 269.

Saul, Tom W., Seattle, Wash. Milk-bottle-stopper remover. No. 1,387,014; Aug. 9; v. 289; p. 281.

Saxon, Herman R., and C. J. Schwarze, assignors of one-half to The Schwarze Electric Company, Adrian, Mich., and one-half to Willys Corporation, Toledo, Ohio. Horn. No. 1,386,804; Aug. 9; v. 289; p. 238.

Schaefer, Clemens T., assignor to Arvac Manufacturing Company, Anderson, Ind. Universal joints. No. 1,386,735; Aug. 9; v. 289; p. 224.

Schaller, Leon T., Irvington, N. J. Dirigible automatic headlight. No. 1,386,957; Aug. 9; v. 289; p. 269.

Schalow, August H. (See Schalow, Frank J., assignor.)

Schalow, Frank J., assignor of one-half to A. H. Schalow, East New York, N. Y. Hat-crown-crease-retaining device. No. 1,387,015; Aug. 9; v. 289; p. 281.

Schaub, Rudolph G., Woodbury, N. J. Folding seat. No. 1,387,315; Aug. 9; v. 289; p. 340.

Scheer, George F., assignor to Scheer Manufacturing Company, Inc., Rochester, N. Y. Belt-buckle. No. 1,386,805; Aug. 9; v. 289; p. 239.

Scheer Manufacturing Company. (See Scheer, George F., assignor.)

Scherner, John, and E. Hutchens, Milwaukee, Wis., assignors to Pierce Wrapping Machine Company, Chicago, Ill. Wrapping-machine. No. 1,387,016; Aug. 9; v. 289; p. 281.

Schmaus, Conrad. (See Long, C. L., and Schmaus.)

Schmerler, Joseph J., New York, N. Y. Toilet-case. No. 1,386,806; Aug. 9; v. 289; p. 239.

Schmidt, Henry F., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Co. Fluid-translating device. No. 1,386,958; Aug. 9; v. 289; p. 269.

Schmidt, James J., Rahway, N. J. Combination-tool. No. 1,387,316; Aug. 9; v. 289; p. 340.

Schoenhut, A., Company, The. (See Schoenhut, Harry E., assignor.)

Schoenhut, Harry E., assignor to The A. Schoenhut Company, Philadelphia, Pa. Doll. No. 1,387,317; Aug. 9; v. 289; p. 340.

Schopf, Henry S., Spokane, Wash. Cooler. No. 1,386,900; Aug. 9; v. 289; p. 259.

Schreiner, Charles H., Rock Island, Ill. Chiropractic table. No. 1,386,901; Aug. 9; v. 289; p. 259.

Schueller, Eugéne, assignor to Societe Industrielle De Celluloid, Paris, France. Rotary pocket-fan. No. 1,387,186; Aug. 9; v. 289; p. 314.

Schulze, Arthur, assignor of one-half to Deutsche Lichtbild-Gesellschaft, Berlin, Germany. Process and device for ascertaining the correct exposure for copying rows of pictures on film-bands. No. 1,387,318; Aug. 9; v. 289; p. 341.

Schwarze, Carl J. (See Saxon, H. R., and Schwarze.)

Schwarze Electric Company, The, *et al.* (See Saxon, H. R., and Schwarze, assignors.)

Schwarz, John R., St. Joseph, Mo. Velocipede for children. No. 1,386,736; Aug. 9; v. 289; p. 224.

Seely, Thomas H. (See Hadaway, J. B., and Seely.)

Segal, Samuel, New York, N. Y. Padlock. No. 1,387,187; Aug. 9; v. 289; p. 315.

Severance, Horace W., and G. F. Hemphill, assignors, by mesne assignments, to Elliott-Nichols Manufacturing Company, Kansas City, Mo. Mirror-holder. No. 1,386,959; Aug. 9; v. 289; p. 270.

Shann, Oscar A., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Bell. No. 1,387,188; Aug. 9; v. 289; p. 315.

Sharkey, Albert E., Cuyahoga Falls, assignor to The General Rubber Goods Co., Cleveland, Ohio. Combined tool-pouch and testing device. No. 1,387,189; Aug. 9; v. 289; p. 315.

Sharp, John C., assignor to Moccasin Bushing Company, Chattanooga, Tenn. Lubricated bushing unit. No. 1,386,960; Aug. 9; v. 289; p. 270.

Sharp, John C., assignor to Moccasin Bushing Company, Chattanooga, Tenn. Lubricated journal-box and pulley bearing. No. 1,386,961; Aug. 9; v. 289; p. 270.

Sharp, John C., assignor to Moccasin Bushing Company, Chattanooga, Tenn. Lubricated pulley-bushing. No. 1,386,962; Aug. 9; v. 289; p. 270.

Sharp, Lee C., Plattsmouth, Nebr. Steering mechanism for motor-vehicles. No. 1,386,737; Aug. 9; v. 289; p. 225.

Shawhan, Jabez F., Dayton, Ohio. Motor-vehicle. No. 1,387,076; Aug. 9; v. 289; p. 293.

Sherman, John Q., Dayton, Ohio. Autographic register. No. 1,386,963; Aug. 9; v. 289; p. 270.

Sherman, John Q., Dayton, Ohio. Autographic register. No. 1,386,964; Aug. 9; v. 289; p. 271.

Shonnard, Harold W. (See Shonnard, Orlando D., assignor.)

Shonnard, Orlando D., assignor of one-third to H. W. Shonnard, Upper Montclair, N. J. Coupling and brake connection for vehicles. No. 1,386,902; Aug. 9; v. 289; p. 259.

Short, Charles R., assignor to General Motors Company, Detroit, Mich. Oil-level indicator for motor-vehicles. No. 1,386,903; Aug. 9; v. 289; p. 259.

Short, Jefferson D., Albuquerque, N. Mex. Spring-wheel. No. 1,387,077; Aug. 9; v. 289; p. 294.

Shott Manufacturing Company, The. (See Gail, Charles H., assignor.)

Sibley, Irving A., Jr., Chicago, Ill. Bumper for vehicles. No. 1,386,807; Aug. 9; v. 289; p. 239.

Silcott, Loudon, Mount Vernon, Ohio. Vehicle-body brace. No. 1,387,190; Aug. 9; v. 289; p. 315.

Silver, Conover T., New York, N. Y. Automobile-body and top therefor. No. 1,387,191; Aug. 9; v. 289; p. 315.

Simon, Thomas, San Francisco, Calif. Oil-burner. No. 1,387,078; Aug. 9; v. 289; p. 294.

Simpson, Joseph R., Lone Oak, Tex. Internal-combustion engine. No. 1,386,965; Aug. 9; v. 289; p. 271.

Simpson, Richard M. (See Robertson, D., and Simpson.)

Sinclair, James, Bredenbury, Saskatchewan, Canada. Bagholder. No. 1,386,658; Aug. 9; v. 289; p. 208.

Singer, Joseph B., Brooklyn, and A. B. Levy, New York, N. Y. Combined carton and display device. No. 1,387,192; Aug. 9; v. 289; p. 316.

Singer Manufacturing Company, The. (See Barron, W. L., and Fifield, assignors.)

Singer Manufacturing Company, The. (See Barron, William L., assignor.)

Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)

Singer Manufacturing Company, The. (See Finch, John S., assignor.)

Singer Manufacturing Company. (See Ostrom, F. W., and Webb.)

Singer Manufacturing Company, The. (See Ringe, John C., assignor.)

Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Reinforced-sheet-metal end wall for railway-cars. No. 1,387,079; Aug. 9; v. 289; p. 294.

Skinner, James M. (See Holland, W. E., and Skinner.)

Slade, Harry S., McKeesport, Pa. Attachment for tooth-paste tubes. No. 1,386,966; Aug. 9; v. 289; p. 271.

Small, Chester C., deceased, by J. M. Small, administratrix, Newton Highlands, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-arranging mechanism. No. 1,386,659; Aug. 9; v. 289; p. 209.

Small, George A., assignor to Philadelphia Bronze Bearing & Tube Company, Philadelphia, Pa. Making tubing. No. 1,387,199; Aug. 9; v. 289; p. 316.

Small, Jennie M., administratrix. (See Small, Chester C.)

Smith, George W., Dallas, Tex. Four-wheel drive mechanism. No. 1,386,967; Aug. 9; v. 289; p. 271.

Smith, Harry F., Lexington, assignor, by mesne assignments, to The Gas Research Company, Dayton, Ohio. Tank. No. 1,387,080; Aug. 9; v. 289; p. 295.

Smith, Henry C., St. Marys, Ohio. Resilient clutch. No. 1,387,017; Aug. 9; v. 289; p. 281.

Smith, Henry L., Paterson, N. J. Device for heating the intake-manifolds of internal-combustion engines. No. 1,386,904; Aug. 9; v. 289; p. 259.

Smith, Henry M., Lyndonville, Vt. Dimming apparatus for headlights. No. 1,386,968; Aug. 9; v. 289; p. 271.

Smith, Jesse A. B., Stamford, Conn., assignor to Underwood Typewriter Company, New York, N. Y. Type-writing-machine. No. 1,386,969; Aug. 9; v. 289; p. 272.

Smith, John C., Jersey Shore, Pa. Wrench. No. 1,386,905; Aug. 9; v. 289; p. 260.

Smith, Northey V., assignor to G. A. Goulston, Boston, Mass. Disinfecting device for telephone and other uses. No. 1,386,975; Aug. 9; v. 289; p. 273.

Smith, Oscar P., Worcester, Mass. Light-shield. No. 1,387,200; Aug. 9; v. 289; p. 316.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,201; Aug. 9; v. 289; p. 316.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,202; Aug. 9; v. 289; p. 316.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,203; Aug. 9; v. 289; p. 317.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,204; Aug. 9; v. 289; p. 317.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,205; Aug. 9; v. 289; p. 317.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,319; Aug. 9; v. 289; p. 341.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,320; Aug. 9; v. 289; p. 341.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,321; Aug. 9; v. 289; p. 341.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,322; Aug. 9; v. 289; p. 341.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,323; Aug. 9; v. 289; p. 342.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,324; Aug. 9; v. 289; p. 342.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,325; Aug. 9; v. 289; p. 342.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,326; Aug. 9; v. 289; p. 342.

Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,387,327; Aug. 9; v. 289; p. 343.

Snyder, George C., assignor of one-sixth to F. K. Hoffman and one-sixth to E. T. I. Thygeson, New York, N. Y. Tie-keeper. No. 1,386,660; Aug. 9; v. 289; p. 209.

Société Anonyme des Fours a Coke Semet-Solvey & Piette. (See Piette, Olivier, assignor.)

Societe Industrielle De Celluloid. (See Schueller, Eugéne, assignor.)

Societe Lorraine Des Anciens Etablissements De Dietrich & Cie. De Luneville. (See Maire, Auguste, assignor.)

Societe Maurice et Pierre Collet & Cie. (See Collet, Albert, assignor.)

Soderberg, Ruth G., Grand Marais, Minn. Book construction. No. 1,387,206; Aug. 9; v. 289; p. 317.

Soler, Rafael A., and J. G. Negrete, Habana, Cuba. Apparatus for cutting vegetables. No. 1,386,970; Aug. 9; v. 289; p. 272.

Sonnenberg, Charles A., Columbus, Ind. Cabinet-door. No. 1,386,738; Aug. 9; v. 289; p. 225.

Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)

Spach, Amuel B. (See Bergman, Frederick, assignor.)

Spatz, Daniel B., Reading, Pa. Vehicle signal device. No. 1,386,906; Aug. 9; v. 289; p. 260.

Sperry, Edward G. (See Sperry, Elmer E. and E. G.)

Sperry, Elmer A. and E. G., assignors to The Sperry Gyroscope Company, Brooklyn, N. Y. Lubricating and cooling system for gyroscopes. No. 1,387,018; Aug. 9; v. 289; p. 282.

Sperry Gyroscope Company, The. (See Sperry, Elmer A. and E. G., assignors.)

Springer, Franklin W., Minneapolis, Minn. Shock-absorber for vehicles. No. 1,387,081; Aug. 9; v. 289; p. 295.

Stafford, Francis A., assignor to The Hunter Arms Company, Inc., Fulton, N. Y. Firearm. No. 1,387,207; Aug. 9; v. 289; p. 317.

Staley, Samuel S., and M. W. Collet, Philadelphia, Pa. Air-prehenter for explosive-engines. No. 1,387,328; Aug. 9; v. 289; p. 343.

Standard Steel Works Company. (See Betz, Samuel G., assignor.)

Starck, William A. (See Hathaway, C. H., Starck, and McEvoy.)

Stark-Inland Machine Works. (See Dean, Clark A., assignor.)

Stark, Walter, Auburn, Calif. Drill-paralleler. No. 1,387,329; Aug. 9; v. 289; p. 343.

Starrels, Joel, Niagara Falls, N. Y. Candy-making. No. 1,387,019; Aug. 9; v. 289; p. 282.

Steffan, Joseph J., St. Louis, Mo. Phonograph-horn. No. 1,386,907; Aug. 9; v. 289; p. 260.

Stenger, Laurence A., Denver, Colo. Pressure registering and recording device. No. 1,386,661; Aug. 9; v. 289; p. 209.

Stevens, Henry R. (See Rockwell, R. L., and Stevens.)

Stevens, William H., Hamilton, New Zealand. Construction of conduits for drainage and similar purposes. No. 1,386,808; Aug. 9; v. 289; p. 239.

Stickley, Lloyd W. (See Heylman, E. M., Kingsbury, and Stickley.)

Stidworthy, William M., Hackettstown, N. J. Device for forming eyes in metal strips. No. 1,387,020; Aug. 9; v. 289; p. 282.

Stoll, George W., and G. H. Drechsel, Indianapolis, Ind. Device for attaching table-legs. No. 1,386,739; Aug. 9; v. 289; p. 225.

Storey, Norman C., Passaic, N. J. Control device for driven members. No. 1,387,208; Aug. 9; v. 289; p. 318.

Stranders, Julien, assignor to H. B. Kruger, New York, N. Y. Advertising or display device. No. 1,387,209; Aug. 9; v. 289; p. 318.

Strassner, Frank J. (See Fletcher, H., and Strassner.)

Stratton, Fenton F., East Croydon, England. Treatment of air for internal-combustion-engine carbureters. No. 1,387,021; Aug. 9; v. 289; p. 282.

Strittmatter, William, North Bergen, N. J. Means for marking wound strip materials. No. 1,387,330; Aug. 9; v. 289; p. 343.

Strunk, John H., Jacksonville, Fla. Automatic safety appliance for railways. No. 1,387,331; Aug. 9; v. 289; p. 343.

Stuart, Orsini, Liverpool, England. Door applicable for closing the openings or ways through bulkheads, partitions, walls, and the like. No. 1,387,332; Aug. 9; v. 289; p. 344.

Stuart, Orsini, Liverpool, England. Fastener for bulkhead-doors. No. 1,387,333; Aug. 9; v. 289; p. 344.

Stuber, Adolph, Rochester, N. Y. Apparatus for registering the flow of liquid. No. 1,387,022; Aug. 9; v. 289; p. 282.

Stumme, Emil C., Readlyn, Iowa. Time-calculator. No. 1,387,082; Aug. 9; v. 289; p. 295.

Subroyar, Erode R., Mylapore, Madras, India. Door and window adjuster. No. 1,386,740; Aug. 9; v. 289; p. 225.

Sullivan Machinery Company. (See Holmes, Morris P., assignor.)

Sultzer, Morton, Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Methods and means for correcting irregularities in transmission-lines. No. 1,387,210; Aug. 9; v. 289; p. 318.

Sulzer, Albert F. (See Hastings, H. E., Farley, and Sulzer.)

Sumbling Machinery Company, Limited. (See Sumbling, William H., assignor.)

Sumbling, William H., assignor to Sumbling Machinery Company, Limited, Toronto, Ontario, Canada. Combined grinding-wheel guard and rest. No. 1,386,741; Aug. 9; v. 289; p. 225.

Summers, Otto, Chicago, Ill., assignor to Floyd Smith Aerial Equipment Company. Parachute pack and harness. No. 1,386,971; Aug. 9; v. 289; p. 272.

Sunderland, Leo, and G. C. Pillinger, Westminster, London, England. Automatic control of electric generating sets. No. 1,386,972; Aug. 9; v. 289; p. 272.

Sundhaussen, Hermann, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. System of connection. No. 1,387,433; Aug. 9; v. 289; p. 364.

Sweeny, Gilbert C., Brooklyn, N. Y. Pouring attachment for cans. No. 1,387,211; Aug. 9; v. 289; p. 318.

Swett, Arthur H., assignor to American Tag Company, Chicago, Ill. Shipping-tags. No. 1,386,973; Aug. 9; v. 289; p. 273.

Swift, Herbert D., New York, N. Y., assignor to International Automatic Appliance Corporation. Method of and apparatus for treating metal. No. 1,387,023; Aug. 9; v. 289; p. 283.

Taber, George H., Binghamton, N. Y. Spring cover and lubricator. No. 1,387,024; Aug. 9; v. 289; p. 283.

Talte & Carlton. (See Bell, Arthur M., assignor.)

Taliaferro, Thomas L., Chicago, Ill. Hermetic friction-closure for jars. No. 1,386,742; Aug. 9; v. 289; p. 226.

Taylor, Theodore F., Philadelphia, Pa. Agitator. No. 1,386,809; Aug. 9; v. 289; p. 239.

Taylor, William H., Hull, Tex. Rotary well-drilling machine. No. 1,386,908; Aug. 9; v. 289; p. 260.

Teale, Oscar S., Bloomfield, N. J., assignor to G. H. Wiley, New York, N. Y. Retouching-machine. No. 1,386,909; Aug. 9; v. 289; p. 260.

Teale, Oscar S., Bloomfield, N. J., assignor to G. H. Wiley, New York, N. Y. Retouching-machine. No. 1,386,910; Aug. 9; v. 289; p. 260.

Templeton, William G., Colorado Springs, Colo. Vending-machine. No. 1,386,974; Aug. 9; v. 289; p. 273.

Textile Publishing Company. (See Hurst, Albert E., assignor.)

Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Machine for filling and packing containers. No. 1,386,810; Aug. 9; v. 289; p. 240.

Thom, James C., Chicago, Ill., assignor to Combination Machine Company, New York, N. Y. Method and apparatus for marking articles. No. 1,386,811; Aug. 9; v. 289; p. 240.

Thomas, Edwin G., assignor to Toledo Scale Company, Toledo, Ohio. Locking device for weighing-scales. No. 1,386,662; Aug. 9; v. 289; p. 209.

Thomas, Thomas W., Baltimore, Md. Shovel-operating machine. No. 1,386,911; Aug. 9; v. 289; p. 261.

Thompson, George S., assignor to James H. Matthews & Company, Pittsburgh, Pa. Machine for marking cylindrical articles. No. 1,386,812; Aug. 9; v. 289; p. 240.

Thygeson, E. Theo. I., *et al.* (See Snyder, George C., assignor.)

Timm, William A., Berwyn, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Container for insulating or impregnating compounds. No. 1,386,912; Aug. 9; v. 289; p. 261.

Timm, William A. (See Griffin, J. T., and Timm.)

Titeflex Metal Hose Corporation. (See Brinkman, Louis H., assignor.)

Toledo Scale Company. (See Thomas, Edward G., assignor.)

Townsend, Frank P., Milwaukee, Wis. Tensioning mechanism. No. 1,386,813; Aug. 9; v. 289; p. 240.

Tower, Max L., Middleport, N. Y. Making arsenate of lead. No. 1,387,212; Aug. 9; v. 289; p. 319.

Tower, Max L., and F. L. Begtrup, assignors to Niagara Sprayer Co., Middleport, N. Y. Making lead arsenate. No. 1,387,213; Aug. 9; v. 289; 319.

Trabue, William, assignor of one-half to D. C. Brenner, Louisville, Ky. Automobile attachment. No. 1,386,913; Aug. 9; v. 289; p. 261.

Trolle, Louis, assignor to E. W. Lawton, Racine, Wis. Footwear. No. 1,386,637; Aug. 9; v. 289; p. 204.

Trudel, Francois X., Shawinigan Falls, Quebec, Canada. Grindstone-mounting. No. 1,386,743; Aug. 9; v. 289; p. 226.

Tufts, John L., Winchester, Mass. Dry-cement process and product. No. 1,386,914; Aug. 9; v. 289; p. 261.

Tweel, Abraham. (See Hines, Robert E., assignor.)

Twyman, Frank, assignor to Adam Hilger, Limited, London, England. Finishing and testing lenses. No. 1,386,663; Aug. 9; v. 289; p. 209.

Underhill, Charles R., New Haven, Conn. Indicating mechanism. No. 1,386,915; Aug. 9; v. 289; p. 261.

Underwood Computing Machine Company. (See Pitman, Henry L., assignor.)

Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)

Underwood Typewriter Company. (See Smith, Jesse A. B., assignor.)

Union Special Machine Company. (See Berger, Joseph, assignor.)

United Autographic Register Co. (See Jensen, Louis, assignor.)

United Shoe Machinery Corporation. (See Bradford, Charles M., assignor.)

United Shoe Machinery Corporation. (See Hadaway, J. B., and Seely, assignors.)

United Shoe Machinery Corporation. (See Loomer, Henry M., assignor.)

United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)

United Shoe Machinery Corporation. (See Megathlin, Ralph S., assignor.)

United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)

United Shoe Machinery Corporation. (See Preble, Edwin N., assignor.)

United Shoe Machinery Corporation. (See Small, Chester C., assignor.)

United States Cast Iron Pipe & Foundry Company. (See Anthony, Thomas P., assignor.)

Upson Nut Company, The. (See Kaase, John, assignor.)

Vaeth, William C., assignor to Eastman Kodak Company, Rochester, N. Y. Lock for tripod-heads. No. 1,386,664; Aug. 9; v. 289; p. 210.

Van der Wyk, Sally, Milwaukee, Wis. Towel-dispensing device. No. 1,386,814; Aug. 9; v. 289; p. 241.

Van Lynden, Robert A. Baron, Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Telephone and microtelephone. No. 1,386,744; Aug. 9; v. 289; p. 226.

Van Meter, Solomon L., Jr., Lexington, Ky. Safety device for aeronautical machines. No. 1,386,815; Aug. 9; v. 289; p. 241.

Van Tuyl, Thomas. (See Cook, A. E., and Van Tuyl.)

Vass, Harry, Summit, N. J. Flying-machine. No. 1,386,916; Aug. 9; v. 289; p. 262.

Vends-Ads Co. (See Chandler, Daniel L., assignor.)

Vignos, Charles, Canton, Ohio, assignor to The American Mine Door Company. Cable-splice. No. 1,387,334; Aug. 9; v. 289; p. 335.

Vincent, Jesse G., assignor to Packard Motor Car Company, Detroit, Mich. Pump for motor-vehicles. No. 1,386,816; Aug. 9; v. 289; p. 241.

Von Post, Carl G., Gottenborg, Sweden. Bearing for shafts. No. 1,386,745; Aug. 9; v. 289; p. 226.

Wachenheimer Bros. (See Wachenheimer, Harry, assignor.)

Wachenheimer, Harry, assignor to Wachenheimer Bros., Providence, R. I. Spring-ring. No. 1,386,746; Aug. 9; v. 289; p. 226.

Wackwitz, Henry E. J., Port Washington, assignor of forty-nine per cent. to W. Hewett, Sands Point Road, N. Y. Combination-tool. No. 1,387,214; Aug. 9; v. 289; p. 319.

Wade, Alice E., Rock Ferry, England. Fountain or reservoir pen. No. 1,386,817; Aug. 9; v. 289; p. 241.

Wagner, E. R., Manufacturing Company. (See Wagner, Edward R., assignor.)

Wagner, Edward R., Milwaukee, assignor to E. R. Wagner Manufacturing Company, North Milwaukee, Wis. Front-fork clip for velocipedes. No. 1,387,215; Aug. 9; v. 289; p. 319.

Wagner Electric Manufacturing Company. (See Fynn, Valère A., assignor.)

Wales Adding Machine Company. (See Birth, Charles, assignor.)

Walker, George L., New York, N. Y., assignor to Air Reduction Company, Incorporated. Blowpipe. No. 1,387,434; Aug. 9; v. 289; p. 364.

Walker, George L., New York, N. Y., assignor to Air Reduction Company, Inc. Blowpipe. No. 1,387,435; Aug. 9; v. 289; p. 364.

Walker, William M., Seattle, Wash. Concrete pipe. No. 1,387,025; Aug. 9; v. 289; p. 283.

Wallace, Stephen J., Logansport, Ind. Violin chin-rest. No. 1,387,216; Aug. 9; v. 289; p. 319.

Walter, Charles T., Chicago, Ill. Pneumatic shock-absorber. No. 1,386,818; Aug. 9; v. 289; p. 242.

Walton, Jerrold F., Sturgis, Mich. Chair foot-rest. No. 1,386,819; Aug. 9; v. 289; p. 242.

Waream, Charles E., and C. L. Braley, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Pressure attachment for garment-presses. No. 1,386,665; Aug. 9; v. 289; p. 210.

Warner, Leroy J., Fostoria, Ohio. Gripper-arm. No. 1,387,026; Aug. 9; v. 289; p. 283.

Warren, Joseph. (See Haggenmiller, George T., assignor.)

Watanabe, Masanori, assignor to Kyokuto Jidoshia Kogyo Co. Ltd., Tokio, Japan. Entrance device for automobile-car bodies. No. 1,386,976; Aug. 9; v. 289; p. 273.

Waterbury Farrel Foundry and Machine Company, The. (See Candee, Zenas P., assignor.)

Waterbury Farrel Foundry and Machine Company, The. (See Pierson, William D., assignor.)

Watkins, Thomas W., Kansas City, Mo. Portable grinding and polishing machine. No. 1,386,820; Aug. 9; v. 289; p. 242.

Watrous, Isaac A., Bridgeport, Conn. Scraper for cleaning irregular surfaces. No. 1,387,027; Aug. 9; v. 289; p. 283.

Watson, Edward F., Yonkers, N. Y., assignor to American Telephone & Telegraph Company. Indicating mechanism. No. 1,386,977; Aug. 9; v. 289; p. 273.

Watters, William W., New Rochelle, N. Y. Interchangeable-initial plate. No. 1,387,217; Aug. 9; v. 289; p. 319.

Webb, Irving F. (See Ostrom, F. W., and Webb, assignors.)

Webb, Raymond L., Atchison, Kans. Saw-set. No. 1,386,821; Aug. 9; v. 289; p. 242.

Webb, William C., Atlantic City, N. J. Electric sign. No. 1,386,822; Aug. 9; v. 289; p. 242.

Weeks, Carl, Des Moines, Iowa. Container. No. 1,386,917; Aug. 9; v. 289; p. 262.

Webner, George A., Savannah, Ga. Steering-wheel lock. No. 1,387,218; Aug. 9; v. 289; p. 319.

Weiss, Howard F., assignor to C. F. Burgess Laboratories, Madison, Wis. Composite fibrous product. No. 1,387,219; Aug. 9; v. 289; p. 320.

Welch, Lorenso B., Fort Smith, Ark. Convertible seat for automobiles. No. 1,387,083; Aug. 9; v. 289; p. 295.

Wells, Glen R., Fort Wayne, Ind. Clip for pens and pencils. No. 1,387,220; Aug. 9; v. 289; p. 320.

Wells, Harvey H., Chicago, Ill. Box. No. 1,387,084; Aug. 9; v. 289; p. 295.

Western Electric Company. (See Balduf, Bruno E., assignor.)

Western Electric Company. (See Bell, John H., assignor.)

Western Electric Company. (See Booth, William T., assignor.)

Western Electric Company. (See Bullard, A. M., and Reynolds, assignors.)

Western Electric Company. (See Clausen, Henry P., assignor.)

Western Electric Company. (See Clausen, H. P., and Goodrum, assignors.)

Western Electric Company. (See Collis, Raymond E., assignor.)

Western Electric Company. (See Conway, Roy D., assignor.)

Western Electric Company. (See Crawford, Gustavus C., assignor.)

Western Electric Company. (See Dixon, Amos F., assignor.)

Western Electric Company. (See Dodge, W. L., and MacPherson, assignors.)

Western Electric Company Incorporated. (See Fletcher, H., and Strassner, assignors.)

Western Electric Company. (See Fowler, Clarence B., assignor.)

Western Electric Company. (See Fredericks, John, assignor.)

Western Electric Company. (See Goodrum, Charles L., assignor.)

Western Electric Company. (See Goodrum, C. L., and Clausen, assignors.)

Western Electric Company. (See Griffin, J. T., and Timm, assignors.)

Western Electric Company. (See Hartley, Ralph V. L., assignor.)

Western Electric Company. (See Keckler, Charles W., assignor.)

Western Electric Company. (See Leveridge, Walter J., assignor.)

Western Electric Company. (See Lundell, Alben E., assignor.)

Western Electric Company. (See McQuarrie, James L.)

Western Electric Company. (See MacDougal, H. W., and MacPherson, assignors.)

Western Electric Company. (See MacPherson, Hugh D., assignor.)

Western Electric Company. (See Mather, George E., assignor.)

Western Electric Company. (See Menefee, Harry R., assignor.)

Western Electric Company. (See Palmer, Joel C. R., assignor.)

Western Electric Company, The. (See Polinkowsky, Lipa, assignor.)

Western Electric Company. (See Powell, Winfred T., assignor.)

Western Electric Company. (See Raynsford, Arthur, assignor.)

Western Electric Company. (See Read, Harry S., assignor.)

Western Electric Company. (See Reddig, Charles E., assignor.)

Western Electric Company. (See Reynolds, John N., assignor.)

Western Electric Company. (See Rhodes, W. A., and Anderson, assignors.)

Western Electric Company. (See Shann, Oscar A., assignor.)

Western Electric Company. (See Sultzer, Morton, assignor.)

Western Electric Company. (See Timm, William A., assignor.)

Western Electric Company. (See White, Charles, assignor.)

Western Electric Company. (See Wilbur, Ray S., assignor.)

Western Electric Company. (See Williams, Samuel B., Jr., assignor.)

Westinghouse Electric & Manufacturing Co. (See Schmidt, Henry E., assignor.)

Westinghouse Union Battery Company. (See Norris, Paul E., assignor.)

Westrup, Eric. (See Westrup, Oliver F. and E.)

Westrup, Oliver F. and E., New Brighton, England. Adjustable slack-holder for cords, &c. No. 1,386,918; Aug. 9; v. 289; p. 262.

West's Gas Improvement Company. (See Wild, William, assignor.)

Wetmore, Harry W., San Jose, Calif. Device for protecting the lips of players of wind musical instruments. No. 1,386,823; Aug. 9; v. 289; p. 243.

Wheary, George H., Racine, Wis. Combination trunk-section cover and laundry-bag. No. 1,387,221; Aug. 9; v. 289; p. 320.

Wheary, George H., Racine, Wis. Trunk ironing-board. No. 1,387,028; Aug. 9; v. 289; p. 383.

Whippey, Frederick C., Chicago, Ill. Locking bolt and nut. No. 1,387,085; Aug. 9; v. 289; p. 296.

White, Bruce C. (See Price, T. H. White, and Dudley.)

White, Charles, East Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Telephone-exchange system. No. 1,386,747; Aug. 9; v. 289; p. 227.

White, George S., Nashville, Tenn. Automobile-lock. No. 1,387,335; Aug. 9; v. 289; p. 344.

White, John W., assignor to General Motors Corporation, Detroit, Mich. Combined wheel-hub and brake-drum. No. 1,387,444; Aug. 9; v. 289; p. 366.

White, Joseph, St. Louis, Mo. Butchering-machine. No. 1,386,824; Aug. 9; v. 289; p. 243.

White, Rollin H., Cleveland Heights, assignor to The Cleveland Tractor Company, Euclid, Ohio. Track-laying tractor. No. 1,387,086; Aug. 9; v. 289; p. 296.

White, Rollin H., and M. B. Morgan, Cleveland Heights, assignors to The Cleveland Tractor Company, Euclid, Ohio. Dustproof bearing. No. 138,087; Aug. 9; v. 289; p. 296.

White, S. S., Dental Manufacturing Company, The. (See Heck, George D., assignor.)

White, William E., Chicago, Ill. Beam-spacer. No. 1,387,088; Aug. 9; v. 289; p. 296.

Whiton, Robert P., assignor to Hasselbarth-Whiton Co., Inc., Utica, N. Y. Crib. No. 1,387,336; Aug. 9; v. 289; p. 344.

Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Direction indicator and measuring instrument. No. 1,386,666; Aug. 9; v. 289; p. 210.

Wickersham, Elmer E., assignor to The Holt Manufacturing Company, Stockton, Calif. Trailer-wagon. No. 1,386,978; Aug. 9; v. 289; p. 274.

Wickersham, Elmer E., Oakland, Calif., assignor to The Holt Manufacturing Company, Stockton, Calif. Transmission mechanism. No. 1,386,979; Aug. 9; v. 289; p. 274.

Wiegand, Edwin L., Pittsburgh, Pa. Emplacing apparatus. No. 1,387,029; Aug. 9; v. 289; p. 284.

Wiener, Milton M. (See Benson, M. P., and Wiener.)

Wilbur, Ray S., Lyndhurst, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Signaling system. No. 1,386,748; Aug. 9; v. 289; p. 227.

Wilcox, George. (See Gach, A., and Wilcox.)

Wilcox, William D., Chicago, Ill. Apparatus for making gas. No. 1,386,825; Aug. 9; v. 289; p. 243.

Wild, Alfred, Milwaukee, Wis. Weaving-machine. No. 1,386,826; Aug. 8; v. 289; p. 243.

Wild, William, Blackpool, assignor of one-half to West's Gas Improvement Company, Limited, Manchester, England. Charger for retorts. No. 1,386,919; Aug. 9; v. 289; p. 262.

Wiley, George H. (See Teale, Oscar S., assignor.)

Williams, Calvin C., Philadelphia, Pa. Child's vehicle. No. 1,386,827; Aug. 9; v. 289; p. 243.

Williams, Josiah H., Baltimore, Md. Inhalation device. No. 1,387,030; Aug. 9; v. 289; p. 284.

Williams, Samuel B., Jr., Brooklyn, assignor to Western Electric Company, Incorporated, New York, N. Y. Call-distributing system. No. 1,386,749; Aug. 9; v. 289; p. 227.

Willis, Arthur. (See Lavington, George L., assignor.)

Willis, Herman R. (See Willis, Reuben M. and H. R.)

Willis, Reuben M. and H. R., Chanute, Kans. Child's crib. No. 1,387,089; Aug. 9; v. 289; p. 296.

Willner, E. Alfred, *et al.* (See Cave, Daniel B., assignor.)

Willys Corporation *et al.* (See Saxon, H. R., and Schwarse, assignors.)

Wing, Maurice E., Lawrence Park, Pa. License-tag-attaching device. No. 1,387,090; Aug. 9; v. 289; p. 297.

Winston, Earle G., Pittsfield, Mass., assignor to General Electric Company. Windings for electrical apparatus. No. 1,386,828; Aug. 9; v. 289; p. 244.

Wise Furnace Company, The. (See Wise, Wilbert G., assignor.)

Wise, Wilbert G., assignor to The Wise Furnace Company, Akron, Ohio. Furnace. No. 1,387,222; Aug. 9; v. 289; p. 320.

Witt, William C., Alvin, Tex. Ditch-filling machine. No. 1,386,829; Aug. 9; v. 289; p. 244.

Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine horn. No. 1,387,031; Aug. 9; v. 289; p. 284.

Woolley, Horace M., Jr., and D. J. McKean, Alameda, Calif.; said McKean assignor to said Woolley. Self-steering vehicle. No. 1,387,091; Aug. 9; v. 289; p. 297.

Work, Samuel D., Jr., New York, N. Y. Current-distributer. No. 1,386,980; Aug. 9; v. 289; p. 274.

Wright, Clyde S., assignor to The National Supply Company, Toledo, Ohio. Underreamer. No. 1,387,032; Aug. 9; v. 289; p. 284.

Wright, Samson D., Cleveland Heights, Ohio. Driving mechanism. No. 1,386,667; Aug. 9; v. 289; p. 210.

Wyss, Russell L., assignor of one-half to D. L. Piggott, Kansas City, Mo. Electric timer. No. 1,387,223; Aug. 9; v. 289; p. 320.

Youberg, Charles F. and F. S., Indianapolis, Ind., assignors of one-half to W. Youberg, Hegewisch, Chicago, Ill. Railway-tie and rail-securing means. No. 1,386,750; Aug. 9; v. 289; p. 227.

Youberg, Frances S. (See Youberg, Charles F. and F. S.)

Youberg, William. (See Youberg, Charles F. and F. S., assignors.)

Young, Charles E., Akron, Ohio. Non-skid-fire protector. No. 1,386,668; Aug. 9; v. 289; p. 210.

Young, William R., Nashville, Tenn. License-number-plate holder. No. 1,386,751; Aug. 9; v. 289; p. 227.

Youngstown Sheet and Tube Company, The. (See Coey, Stewart C., assignor.) (Reissue.)

Zakarka, Joseph, Brooklyn, N. Y. Bag-holder. No. 1,386,669; Aug. 9; v. 289; p. 211.

Ziegler, Charles F., Los Angeles, Calif. Shoe-tacking machine. No. 1,386,752; Aug. 9; v. 289; p. 228.

Zurcan, Lionti Stenen, Saskatchewan, Canada. Railway-crossing. No. 1,386,670; Aug. 9; v. 289; p. 211.

Zych, Wojciech, Elizabeth, N. J. Window-lock. No. 1,386,671; Aug. 9; v. 289; p. 211.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)

Beatty, William F., Cincinnati, Ohio. Soda-fountain and ice-cream-dispensing apparatus. No. 58,657; Aug. 9; v. 289; p. 367.

Beshara, John G., Lawrence, Mass. Power hair-cutter. No. 58,658; Aug. 9; v. 289; p. 367.

Casey, John T., assignor to Keystone Lantern Company, Philadelphia, Pa. Child's vehicle. No. 58,659; Aug. 9; v. 289; p. 367.

Clouser, Harry E., and E. R. Thornton, Stockton, Calif. Building-block. No. 58,660; Aug. 9; v. 289; p. 367.

Coates, Bertram M. (See Stover, H. W., and Coates.)

Cohn, Albert, and L. H Debs, Chicago, Ill. Game-board. No. 58,661; Aug. 9; v. 289; p. 368.

Connor, Thomas V., Denver, Colo. Pressure-cooker. No. 58,662; Aug. 9; v. 289; p. 368.

Corcoran-Victor Company, The. (See Macneale, Neil, assignor.)

Crampton, Alfred H., Stockton, Calif. Combination-tool. No. 58,663; Aug. 9; v. 289; p. 368.

Debs, Louis H. (See Cohn, A., and Debs.)

Dellon Tire and Rubber Company. (See Price, John W., assignor.)

Earl, Harley J., Los Angeles, Calif. Automobile-body. No. 58,665; Aug. 9; v. 289; p. 368.

Earl, Harley J., Los Angeles, Calif. Automobile-body molding. No. 58,664; Aug. 9; v. 289; p. 368.

Eustis, J. P., Manufacturing Company. (See Eustis, John P., assignor.)

Eustis, John P., Newton, assignor to J. P. Eustis Manufacturing Company, Cambridge, Mass. Screw or similar article. No. 58,666; Aug. 9; v. 289; p. 368.

Felix, Hugo I., Kansas City, Mo. Combined tie-fastener and soft-collar retainer. No. 58,667; Aug. 9; v. 289; p. 369.

Gable, Louis A., Harrisburg, Pa. Combined tooth-cleaner and support. Nos. 58,668–9; Aug. 9; v. 289; p. 369.

Garin, George P., Chicago, Ill. Game-board. No. 58,670; Aug. 9; v. 289; p. 369.
Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Bottle-cap. No. 58,671; Aug. 9; v. 289; p. 369.
Gurnett, Arthur R., Toronto, Ontario, Canada. Fruit-jar opener. No. 58,672; Aug. 9; v. 289; p. 370.
Hots, John P., Newton, Mass. Traffic-signal. No. 58,673; Aug. 9; v. 289; p. 370.
India Tire and Rubber Company. (See Lerch, William G., assignor.)
Keystone Lantern Company. (See Casey, John T., assignor.)
Lerch, William G., Akron, assignor to India Tire and Rubber Company, Magadore, Ohio. Tire-tread. No. 58,674; Aug. 9; v. 289; p. 370.
Lundberg, Gustave E., Kewanee, Ill. Battery-connector. No. 58,675; Aug. 9; v. 289; p. 370.
Macneale, Neil, assignor to The Corcoran-Victor Company, Cincinnati, Ohio. Lamp-door. No. 58,676; Aug. 9; v. 289; p. 371.
Meidinger, Henry L., Sioux City, Iowa. Phonograph-cabinet. No. 58,677; Aug. 9; v. 289; p. 371.
Mosauer, Harry D., assignor to Tuskeloid Company, Inc., New York, N. Y. Back for a brush, mirror, or the like. No. 58,678; Aug. 9; v. 289; p. 371.
Mosauer, Harry D., assignor to Tuskeloid Company, Inc., New York, N. Y. Handle for toilet articles. No. 58,679; Aug. 9; v. 289; p. 371.
Mosauer, Harry D., assignor to Tuskeloid Company, Inc., New York, N. Y. Comb. No. 58,680; Aug. 9; v. 289; p. 371.
National Drug Stores Corporation. (See Seymour, Charles H., assignor.)
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
Pieper, Oscar H. and A. F., Rochester, N. Y. Casing for electric switches. No. 58,681; Aug. 9; v. 289; p. 372.
Post, Ronald W., Mountain Lakes, N. J. Telephone-ear-piece. No. 58,682; Aug. 9; v. 289; p. 372.
Price, John W., assignor to The Delion Tire and Rubber Company, Baltimore, Md. Tire-tread. No. 58,683; Aug. 9; v. 289; p. 372.
Rabezzana, Hector, Flint, Mich. Can-tester. No. 58,684; Aug. 9; v. 289; p. 372.
Rayder, Joseph A., Philadelphia, Pa. Ice-cream spoon. No. 58,685; Aug. 9; v. 289; p. 372.
Reuhl, Henry, Cincinnati, Ohio. Toy bowling-alley. No. 58,686; Aug. 9; v. 289; p. 372.
Robinson, John L. R., Reno, Nev. Ampul. No. 58,687; Aug. 9; v. 289; p. 373.
Rogers, Cephas B., Danbury, Conn. Electric-light bracket. No. 58,688; Aug. 9; v. 289; p. 373.
Senften, Herman, Los Angeles, Calif. Container. No. 58,689; Aug. 9; v. 289; p. 373.
Seymour, Charles H., Flushing, assignor to National Drug Stores Corporation, New York, N. Y. Store-front. No. 58,690; Aug. 9; v. 289; p. 373.
Sortor, Lester J., Des Moines, Iowa. Drill-hole cleaner or similar article. No. 58,691; Aug. 9; v. 289; p. 373.
Stover, Harry W., Oakland, and B. M. Coates, Piedmont, Calif. Automobile rear-sight device. No. 58,692; Aug. 9; v. 289; p. 373.
Thornton, Edgar R. (See Clouser, H. E., and Thornton.)
Tuskeloid Company. (See Mosauer, Harry D., assignor.)
Wahl Company, The. (See Wahl, John C., assignor.)
Wahl, Company, The. (See Worthy, John H., assignor.)
Wahl, John C., Chicago, Ill., assignor to The Wahl Company, Wilmington, Del. Pen or pencil case. No. 58,693; Aug. 9; v. 289; p. 374.
Worthy, John H., Elgin, Ill., assignor to The Wahl Company, Wilmington, Del. Pen or pencil case. No. 58,694; Aug. 9; v. 289; p. 374.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

American Lady Corset Co., Detroit, Mich. Corsets and brassières. No. 145,533; Aug. 9; v. 289; p. 407.
American Social Hygiene Association, Inc., New York, N. Y. No. 145,534; Aug. 9; v. 289; p. 407.
Armstrong Cork Co., Pittsburgh and Lancaster, Pa. Publications issued monthly. No. 145,535; Aug. 9; v. 289; p. 407.
Association of Army and Navy Stores, Inc., New York, N. Y. Monthly magazine or house organ. No. 145,536; Aug. 9; v. 289; p. 407.
B. & S. Manufacturing Co., Brooklyn, N. Y. Fire-pumps and grease-guns. No. 145,544; Aug. 9; v. 289; p. 407.
Berliner, Emile, Washington, D. C. Prepared cereal breakfast food. No. 145,537; Aug. 9; v. 289; p. 407.
Borgfeldt, George, & Co., New York, N. Y. Articles of clothing. No. 145,538; Aug. 9; v. 289; p. 407.
Brecht Candy Co., The, Denver, Colo. Candies. No. 145,539; Aug. 9; v. 289; p. 407.
Brownstein-Louis Company, Los Angeles, Calif. Certain articles of clothing. No. 145,540; Aug. 9; v. 289; p. 407.
Brownstein-Louis Company, Los Angeles, Calif. Overalls, jumpers, overall-coats, &c. No. 145,541; Aug. 9; v. 289; p. 407.
Brownsville Canning Co., Corvallis, Oreg. Canned fruits, berries, and vegetables, dried fruit, and fresh deciduous fruit. No. 145,542; Aug. 9; v. 289; p. 407.
Brummel & Mendelsohn, New York, N. Y. Certain articles of clothing. No. 145,543; Aug. 9; v. 289; p. 407.
California Co-Operative Canneries, San Jose, Calif. Canned fruits and vegetables. No. 145,545; Aug. 9; v. 289; p. 407.
California Fruit Products Co., Los Angeles, Calif. Orange marmalade and jelly. No. 145,546; Aug. 9; v. 289; p. 407.
Carson Pirie Scott & Co., Chicago, Ill. Coats, capes, sets, scrafs, muffs, hats, and caps of fur. No. 145,580; Aug. 9; v. 289; p. 408.
Community Service (Incorporated), New York, N. Y. Printed pamphlets, circulars, and books. No. 145,548; Aug. 9; v. 289; p. 407.
Crown Margarin Company, St. Louis, Mo. Oleomargarin. Nos. 145,549–50; Aug. 9; v. 289; p. 407.
Cunningham, Christopher, Company, The, Brooklyn, N. Y. Steam-boilers and appurtenances thereto. No. 145,547; Aug. 9; v. 289; p. 407.
Dinou Brothers, Chicago, Ill. Chocolate candies. No. 145,551; Aug. 9; v. 289; p. 407.
Duncan, J., Company, Everett, Mass. Overhead tramway-switches. No. 145,552; Aug. 9; v. 289; p. 407.
Dunn Edge Tool Co., Oakland, Me. Scythes and axes. No. 145,553; Aug. 9; v. 289; p. 407.
Duwell Manufacturing Company, Worcester, Mass. Bench grinding-machines. No. 145,554; Aug. 9; v. 289; p. 407.
Eckstein, Joseph, Inc., New York, N. Y. Woolen and woolen and silk piece goods. No. 145,555; Aug. 9; v. 289; p. 407.
French American Import Co., Boston, Mass. Hand-embroidered underwear. No. 145,556; Aug. 9; v. 289; p. 407.
Friedman & Krieger, New York, N. Y. Cotton and silk piece goods and combinations of same. No. 145,557; Aug. 9; v. 289; p. 407.
Graham-Henshaw, Lancaster, Calif. Fresh deciduous fruit. No. 145,558; Aug. 9; v. 289; p. 407.
Gross & Weiss, Inc., New York, N. Y. Waists and blouses. No. 145,559; Aug. 9; v. 289; p. 407.
Harrods (North America) Ltd., New York, N. Y. Men's overcoats. No. 145,560; Aug. 9; v. 289; p. 408.
Hetbrick Manufacturing Company, The, Toledo, Ohio. Cotton goods in the piece. No. 145,561; Aug. 9; v. 289; p. 408.
Isaacs & Kubrin, New York, N. Y. Men's suits. No. 145,562; Aug. 9; v. 289; p. 408.
Knorr-Schlaudt Wholesale Co., The, Hutchinson, Kans. Workingmen's clothes. No. 145,563; Aug. 9; v. 289; p. 408.
Lidseen, Gustave, Chicago, Ill. Cutters for phonograph-needles and the like. No. 145,564; Aug. 9; v. 289; p. 408.
Lindblom, Gustav E., Dolgeville, N. Y. Bread. No. 145,565; Aug. 9; v. 289; p. 408.
Medical Council, The, Philadelphia, Pa. Monthly medical journal. No. 145,566; Aug. 9; v. 289; p. 408.
Migel, J. A., Inc., New York, N. Y. Certain articles of clothing. No. 145,567; Aug. 9; v. 289; p. 408.
Munter, Charles, New York, N. Y. Certain articles of clothing. No. 145,568; Aug. 9; v. 289; p. 408.
Ohio Suspender Company, The, Mansfield, Ohio. Suspenders, garters, armbands, and belts. No. 145,569; Aug. 9; v. 289; p. 408.
Orbis Products-Trading Co., Inc., New York, N. Y. Powdered egg-albumen and powdered egg-yolk. No. 145,570; Aug. 9; v. 289; p. 408.
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers of leather, rubber, felt, silk, &c. Nos. 145,571–2; Aug. 9; v. 289; p. 408.
Post Manufacturing Company, Kent, Ohio. Machinery for manufacturing concrete products. No. 145,573; Aug. 9; v. 289; p. 408.
Queen City Turn Shoe Company, The, Cincinnati, Ohio. Shoes made of leather, rubber, fabric, and combinations of such materials. No. 145,574; Aug. 9; v. 289; p. 408.
Regal Silver Mfg. Co., The, New Haven, Conn. Knives and sharpening-steels. No. 145,575; Aug. 9; v. 289; p. 408.
Regar, H. K., & Sons, Bridgeport, Pa. Men's, women's, and infants' hosiery. No. 145,576; Aug. 9; v. 289; p. 408.
Regatta Manufacturing Co. Inc., Baltimore, Md. Woven cotton-fabric underwear for male wear. No. 145,577; Aug. 9; v. 289; p. 408.
Richmond Chase Company, San Jose, Calif. Canned fruits. No. 145,578; Aug. 9; v. 289; p. 408.
Robinson Straus & Co., St. Paul, Minn. Hats for women, misses, and children, and hat-frames. No. 145,584; Aug. 9; v. 289; p. 408.

Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 145,579; Aug. 9; v. 289; p. 408.
Sears, Roebuck and Co., Chicago, Ill. Typewriters. No. 145,581; Aug. 9; v. 289; p. 408.
Sonny Manufacturing Co., Milwaukee, Wis. Boys' blouses, play-suits or rompers, shirts, and knickerbockers. No. 145,582; Aug. 9; v. 270; p. 408.
Stevens Manufacturing Co., Fall River, Mass. Bed-spreads. No. 145,583; Aug. 9; v. 289; p. 408.
Turner & Walls, New York, N. Y. Voile piece goods. No. 145,585; Aug. 9; v. 289; p. 408.
Valenstein, Joseph H., New York, N. Y. Ladies' dresses, waists, and undergarments. No. 145,586; Aug. 9; v. 289; p. 408.
Vogelmann, Joseph A., Brooklyn, N. Y. Semi-annual publication. No. 145,587; Aug. 9; v. 289; p. 408.
Ward-Stillson Company, The, Anderson, Ind. Aprons and house-dresses. No. 145,588; Aug. 9; v. 286; p. 408.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

B. Heller & Co., Chicago, Ill. "Heller's Golden Gloss Shine." (For Containers Holding Heller's Golden Gloss Shine, a Metal-Polish.) No. 23,164; Aug. 9; v. 289; p. 409.
B. Heller & Co., Chicago, Ill. "Orange-Zest." (For Containers Holding Orange-Zest, an Orange Flavoring Compound.) No. 23,165; Aug. 9; v. 289; p. 409.
B. Heller & Co., Chicago, Ill. "Tanaline." (For Receptacles Containing Tanaline, a Preparation for Tanning Animal Skins.) No. 23,166; Aug. 9; v. 289; p. 409.
B. Heller & Co., Chicago, Ill. "Ozo Waste Pipe Opener." (For Receptacles Containing Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) No. 23,167; Aug. 9; v. 289; p. 409.
C. J. Fox Company, The, Providence, R. I. "Greco." (For Candy-Boxes.) No. 23,163; Aug. 9; v. 289; p. 409.
Carroll, Connor, Boston, Mass. "Coal Dust Twins." (For Puzzles.) No. 23,162; Aug. 9; v. 289; p. 409.
Frank A. Weeks Mfg. Co., New York, N. Y. "Service Telephone Index." (For Indexed Blank Memorandum-Booklets to be Used as Telephone Memorandum-Records by Telephone Subscribers.) No. 23,169; Aug. 9; v. 289; p. 409.
Harriet Hubbard Ayer, New York, N. Y. "Liquid Nail Enamel." (For Enamel for the Nails.) No. 23,152; Aug. 9; v. 289; p. 409.
Harriet Hubbard Ayer, New York, N. Y. "Ayeristocrat." (For Non-Greasy, Finishing, and Vanishing Cream.) No. 23,153; Aug. 9; v. 289; p. 409.
Harriet Hubbard Ayer, New York, N. Y. "Skin & Tissue Builder." (For Preparations for the Skin and Tissues and Massage-Cream.) Nos. 23,154–5; Aug. 9; v. 289; p. 409.
Harriet Hubbard Ayer, New York, N. Y. "Ayer's Face Cream." (For Face-Cream.) Nos. 23,156–7; Aug. 9; v. 289; p. 409.
Harriet Hubbard Ayer, New York, N. Y. "Luxuria." (For Cosmetics.) No. 23,158; Aug. 9; v. 289; p. 409.
Harriet Hubbard Ayer, New York, N. Y. "Coeur de Violette." (For Cerate.) No. 23,159; Aug. 9; v. 289; p. 409.
Harriet Hubbard Ayer, New York, N. Y. "Lip Sticks." (For Rouge, Cream, or Healing Compounds in the Form of Sticks and for Application to the Lips.) No. 23,160; Aug. 9; v. 289; p. 409.
Harriet Hubbard Ayer, New York, N. Y. "Cuticle Remover." (For Preparations for Removing Surplus Cuticle.) No. 23,161; Aug. 9; v. 289; p. 409.
Roanoke Candy Company, Inc., Roanoke, Va. "Big Lick." (For Hard Candy on Sticks.) No. 23,168; Aug. 9; v. 289; p. 409.
Wm. Wrigley, Jr., Company, Chicago, Ill. "Wrigley's P-K's Sugar Coated Gum." (For Gum.) Nos. 23,170–1; Aug. 9; v. 289; p. 409.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Becker, J. P., San Francisco, Calif. "Tell Time Right." (For Advertising Purposes for Watches and Clocks.) No. 5,684; Aug. 9; v. 289; p. 409.
Cook Paint & Varnish Company, Kansas City, Mo. "He's Painting It with Cook's." (For Advertising Purposes for Paint Products.) No. 5,685; Aug. 9; v. 289; p. 409.
Crowell Publishing Company, The, New York, N. Y. "Don't Forget Your Woman's Home Companion." (For Advertising Purposes for a Periodical Publication Entitled *Woman's Home Companion*.) No. 5,686; Aug. 9; v. 289; p. 409.
Crowell Publishing Company, The, New York, N. Y. "Here's Your Latest American Magazine." (For Advertising Purposes for a Periodical Publication Entitled *American Magazine*.) No. 5,687; Aug. 9; v. 289; p. 409.
Hills Bros., San Francisco, Calif. "Hills Bros. Red Can Coffee." (For Advertising Purposes for Coffee.) No. 5,688; Aug. 9; v. 289; p. 409.
Hoelderle, Herman, Milwaukee, Wis. "Autoists' Accurate Garage Thermometer." (For Garage-Thermometer.) No. 5,689; Aug. 9; v. 289; p. 409.
Postum Cereal Co., Inc., Battle Creek, Mich. "Order Post Toasties To-Day." (For Advertising Purposes for Cereal Foods—Corn Flakes.) No. 5,690; Aug. 9; v. 289; p. 409.
Star Beverage Company, Belleville, Ill. "Wink." (For Advertising Purposes for Ginger-Flavored Beverages.) No. 5,691; Aug. 9; v. 289; p. 409.
Umbrella Manufacturers Association of America, New York, N. Y. "Everybody Needs One." (For Advertising Purposes for Umbrellas.) No. 5,692; Aug. 9; v. 289; p. 409.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Acosta, Blas, Jr., New York, N. Y. Preparation used as a stimulant and analgesic for painful menstruation, neuralgia, &c. No. 146,423; Aug. 9; v. 289; p. 396.

Allcock, S., & Co. Limited, Redditch, England. Linen and hemp fishing-lines. No. 147,000; Aug. 9; v. 289; p. 400.

Allured, Earl R., Chicago, Ill. Magazines published monthly. No. 148,687; Aug. 9; v. 289; p. 404.

American Automobile Accessories Company, The, Cincinnati, Ohio. Portable repair kits. No. 120,272; Aug. 9; v. 289; p. 376.

American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 147,390; Aug. 9; v. 289; p. 402.

American Oil Burner Company, New York, N. Y. Oil-heaters. No. 149,164; Aug. 9; v. 289; p. 406.

American Pacific Company, Inc., San Francisco, Calif. Gasolene, lubricating-oils, &c. No. 129,771; Aug. 9; v. 289; p. 377.

Arnold, F. R., & Co., New York, N. Y. Face-powder. No. 146,419; Aug. 9; v. 289; p. 396.

Arnold, F. R., & Co., New York, N. Y. Compact-powder and rouge. No. 146,420; Aug. 9; v. 289; p. 396.

Asselin, Homer L., San Francisco, Calif. Liquid mouth-wash and antiseptic. No. 142,312; Aug. 9; v. 289; p. 384.

Atlantic Refining Company, The, Philadelphia, Pa. Black, compounded, crude, cutting, cylinder, engine, &c., oils, greases, candles, &c. No. 148,690; Aug. 9; v. 289; p. 404.

Automobile Owners' Tire Corporation, St. Paul, Minn. Automobile tires and tubes of rubber. No. 141,150; Aug. 9; v. 289; p. 383.

Automotive Lubricant Company, San Antonio, Tex. Lubricating-oil. No. 148,045; Aug. 9; v. 289; p. 403.

Bakers Products Company, The, Cleveland, Ohio. Oil compound used in the baking of food products. No. 118,505; Aug. 9; v. 289; p. 375.

Ballard & Ballard Company, Louisville, Ky. Wheat-flour. No. 146,685; Aug. 9; v. 289; p. 399.

Bally Company, Inc., Wilmington, Del., and New York, N. Y. Boots, shoes, slippers, mules, heels, &c. Nos. 144,177–8; Aug. 9; v. 289; p. 388.

Beall, Annie D., Birmingham, Ala. Preparation for the treatment of cancers and cancerous sores. No. 132,228; Aug. 9; v. 289; p. 378.

Berks Knitting Company, Reading, Pa. Hosiery. No. 146,791; Aug 9; v. 289; p. 400.

Bernardo, Rochelle, New York, N. Y. Toilet preparations—viz., perfumes. No. 147,275; Aug. 9; v. 289; p. 401.

Bing, Lester, Philadelphia, Pa. Knitted bloomers, vests, and union-suits. No. 146,684; Aug. 9; v. 289; p. 399.

Bissell Carpet Sweeper Co., Grand Rapids, Mich. Toy carpet-sweeper. Nos. 147,335–6; Aug. 9; v. 289; p. 401.

Blanke, C. F., Sales Company, St. Louis, Mo. Prepared biscuit, cake, &c., flours and cocoa. No. 138,976; Aug. 9; v. 289; p. 381.

Brodhead, Jane H., Akron, Ohio. Salve for the treatment of boils and carbuncles. No. 132,078; Aug. 9; v. 289; p. 378.

Buzinski, John, Grand Rapids, Mich. Salve for wounds and sores. No. 143,678; Aug. 9; v. 289; p. 387.

Campbell, Donald S., Salt Lake City, Utah. Artificial health mineral water. No. 133,349; Aug. 9; v. 289; p. 378.

Carey, Philip, Manufacturing Company, The, Lockland, Ohio. Grease stock. No. 145,318; Aug. 9; v. 289; p. 393.

Cassatt, Edward B., Cleveland, Ohio. Manufactured leather. No. 131,465; Aug. 9; v. 289; p. 377.

Central States Cooperative Wholesale Society, East St. Louis, Ill. Canned vegetables and fruits, wheat-flour, &c. No. 138,539; Aug. 9; v. 289; p. 381.

Chatham Manufacturing Company, Winston-Salem, N. C. Blankets made of wool and cotton or a combination of wool and cotton. No. 148,482; Aug. 9; v. 289; p. 404.

Chatham Manufacturing Company, Winston-Salem, N. C. Blankets made of wool and cotton or a combination of wool and cotton. Nos. 148,485–6; Aug. 9; v. 289; p. 404.

Chicago Mercantile Company, Chicago, Ill. Hats. No. 143,635; Aug. 9; v. 289; p. 387.

Cole Publishing Company, The, Cleveland, Ohio. Weekly publication. No. 148,928; Aug. 9; v. 289; p. 405.

Coleman Lamp Company, The, Wichita, Kans. House magazine published monthly. No. 148,214; Aug. 9; v 289; p. 404.

Consolidated Tool Works, Inc., New York, N. Y. Hack-saw frames and blades, hammers, hatchets, &c. No. 134,933; Aug. 9; v. 289; p. 379.

Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Bleached muslin in the piece, sheets, pillow-cases. No. 148,711; Aug. 9; v. 289; p. 405.

Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Bleached muslin in the piece. Nos. 148,713–14; Aug. 9; v. 289; p. 406.

Corning International Corporation, New York, N. Y. Lubricating oils and greases. No. 136,873; Aug. 9; v. 289; p. 380.

Corona Cord Tire Company, East Butler, Pa. Automobile-tire casing and tubes composed of rubber. No. 139,148; Aug. 9; v. 289; p. 381.

Council, James R., Norfolk, Va. Cough-drops. No. 146,523; Aug. 9; v. 289; p. 397.

Croker Packing Co., San Francisco, Calif. Canned fruits and vegetables, fruit preserves. No. 133,448; Aug. 9; v. 289; p. 378.

Damschinsky, Carl, New York, N. Y. Hair-restoratives. No. 144,966; Aug. 9; v. 289; p. 389.

Davey Tree Expert Company, The, Kent, Ohio. Chemical composition of matter for dressing tree-wounds. No. 141,419; Aug. 9; v. 289; p. 383.

Davis and Voetsch, New York, N. Y. Stuffed toy dogs. Nos. 149,070–1; Aug. 9; v. 289; p. 406.

Dayton Milling Company, Dayton, Tenn. Pastry-flour made from wheat. No. 143,549; Aug. 9; v. 289; p. 386.

Del Garcia, Armande, New York, N. Y. Serum for the treatment of tuberculosis. No. 145,892; Aug. 9; v. 289; p. 394.

Dewey, Edward B., Washington, D. C., and Winsted, Conn. Hairpins not of precious metals. No. 148,132; Aug. 9; v. 289; p. 403.

Dobbs, John F., Salem, Oreg. Soap in paste form. No. 143,262; Aug. 9; v. 289; p. 386.

Eastern Art Shop, New York, N. Y. Shades of glazed fabric. No. 145,438; Aug. 9; v. 289; p. 393.

Eastern District Piece Dye Works, Inc., Brooklyn, N. Y. Silk piece goods. No. 134,014; Aug. 9; v. 289; p. 379.

Eastern Felt Company, Winchester, Mass. Felt polishing-wheels and felts therefor. No. 142,784; Aug. 9; v. 289; p. 385.

Elfman, Louis A., Philadelphia, Pa. Horse-racing amusement game apparatus. No. 143,638; Aug. 9; v. 289; p. 387.

Elfman, Louis A., Philadelphia, Pa. Horse-racing amusement game apparatus. No. 145,158; Aug. 9; v. 289; p. 390.

Elk Manufacturing Company, Jellico, Tenn. Extracts of banana imitation, lemon, orange, &c. No. 133,529; Aug. 9; v. 289; p. 379.

Ewing, Joseph H., Kansas City, Mo. Maltless non-cereal beverage and syrup from which it is made. No. 148,875; Aug. 9; v. 289; p. 405.

Fahrney, Peter, & Sons Co., Dr., Chicago, Ill. System-tonic to improve the appetite, promote digestion, &c. No. 142,614; Aug. 9; v. 289; p. 384.

Farm Publishing Company, Des Moines, Iowa. Monthly periodical publication. No. 147,773; Aug. 9; v. 289; p. 403.

Federal Rubber Company, The, Cudahy, Wis. Hoof-pads. No. 138,713; Aug. 9; v. 289; p. 381.

Fleisher, W. L., & Co., Inc., New York, N. Y. Driers and spray-nozzles. No. 137,316; Aug. 9; v. 289; p. 380.

Folgman, Emanuel, Brooklyn, N. Y. Self-blowing torch. No. 149,896; Aug. 9; v. 289; p. 406.

Freedly, J. W., Conroe, Tex. Sheet-rubber tire-patches and tube-patches brake-lining, &c. No. 146,008; Aug. 9; v. 289; p. 395.

General Utility Company, Philadelphia, Pa. Piston-rings. No. 149,224; Aug. 9; v. 289; p. 406.

Gleim, Nellie A., Cleveland, Ohio. Toilet preparations. No. 142,839; Aug. 9; v. 289; p. 385.

Goddard, J. W., & Sons, Inc., New York, N. Y. Sateens, percalines, taffetas, piece goods, and print cloths in the piece. No. 142,388; Aug. 9; v. 289; p. 384.

Gooch, E. E., Manufacturing Co., Martin, Tenn. Chemical preparation for the protection of cured meat from skippers and other insects. No. 145,506; Aug. 9; v. 289; p. 393.

Graham Bros. Soap Co., Chicago, Ill. Toilet soap. No. 144,141; Aug. 9; v. 289; p. 388.

Grenoville, Marie M. R. Vve., Asnierés, France. Perfumes, toilet waters, face-powder, &c. Nos. 145,184–6; Aug. 9; v. 289; pp. 390–1.

Grenoville, Marie M. R. Vve., Asnierés, France. Shaving-soaps. No. 145,187; Aug. 9; v. 289; p. 391.

Grenoville, Marie M. R. Vve., Asnierés, France. Perfumes, toilet waters, face-powder, &c. Nos. 145,188–9; Aug. 9; v. 289; p. 391.

Grenoville, Marie M. R. Vve., Asnierés, France. Eau-de-cologne. No. 145,191; Aug. 9; v. 289; p. 391.

Grenoville, Marie M. R. Vve., Asnierés, France. Perfumes, toilet waters, face-powder, &c. No. 145,192; Aug. 9; v. 289; p. 392.

Grenoville, Marie M. R. Vve., Asnierés, France. Brilliantine, face powder and lotion. No. 145,193; Aug. 9; v. 289; p. 392.

Grenoville, Marie M. R. Vve., Asnierés, France. Perfumes, toilet waters, face-powder, &c. No. 145,194; Aug. 9; v. 289; p. 392.

H-O Cereal Company, Inc., The, Buffalo, N. Y. Magazine or house organ published and issued by it. No. 147,667; Aug. 9; v. 289; p. 402.

Hagedorn, Edward G., New York, N. Y. Neckties. No. 145,624; Aug. 9; v. 289; p. 394.

Hall, Frank L., Co., Buffalo, N. Y. Wheat bread and rolls, cakes, and pastry. No. 146,554; Aug. 9; v. 289; p. 397.

Hall-Thompson Company, The, Hartford, Conn. Engine for starting fluids. No. 145,449; Aug. 9; v. 289; p. 393.

Harriet Hubbard Ayer, New York, N. Y. Face-astringent and skin-tightener. No. 146,364; Aug. 9; v. 289; p. 395.

Harriet Hubbard Ayer, New York, N. Y. Preparation for increasing the brilliancy and removing the yellowness from white or gray hair. No. 146,353; Aug. 9; v. 289; p. 395.

Harrower, Henry R., Glendale, Calif. Pluriglandular formulas for the treatment of amenorrhea, &c. No. 145,212; Aug. 9; v. 289; p. 392.

Harrower, Henry R., Glendale, Calif. Pluriglandular formulas for the treatment of asthenia, suboxidation, and hypotension. No. 145,213; Aug. 9; v. 289; p. 392.

Hazelrigg, Frank C., Indianapolis, Ind. Tonic alterative. No. 145,508; Aug. 9; v. 289; p. 393.

Helles, Frank B., Elizabeth, N. J. Leather floor-mats. No. 147,349; Aug. 9; v. 289; p. 402.

Hide Leather & Belting Co., Indianapolis, Ind. Leather belting. No. 133,310; Aug. 9; v. 289; p. 378.

Hilton Collins Co. Incorporated, Louisville, Ky. Baseball-bats. No. 144,773; Aug. 9; v. 289; p. 389.

Hoback, Leonard L., Athens, Tenn. Medicinal preparation for tonsilitis, sore throat, &c. No. 137,411; Aug. 9; v. 289; p. 381.

Hohl, Percy, Preston, Idaho. Salve to be used for the relief of sore throats, pleurisy, &c. No. 145,828; Aug. 9; v. 289; p. 394.

Hollander, A., & Son, Inc., Newark, N. J. Fur-skins. No. 133,053; Aug. 9; v. 289; p. 378.

Hooton Cocoa Company, Newark, N. J. Sweet chocolate. No. 127,123; Aug. 9; v. 289; p. 376.

Hoover Hosiery Co., Concord, N. C. Ladies' and men's hosiery. No. 146,761; Aug. 9; v. 289; p. 400.

Howe, H. B., Company, The, Cincinnati, Ohio. Display-shelves. No. 147,287; Aug. 9; v. 289; p. 401.

Hoyt, Howard H., Candy Co., Chicago, Ill. Candy. No. 141,834; Aug. 9; v. 289; p. 383.

Hurd, George B., & Co., New York, N. Y. Playing-cards. No. 144,775; Aug. 9; v. 289; p. 389.

Hysan Manufacturing Co., Chicago, Ill. Cleansing compound for household use. No. 140,594; Aug. 9; v. 289; p. 382.

Icy-Hot Bottle Company, Cincinnati, Ohio. Coffee, sugar, tea, soup, &c. No. 146,912; Aug. 9; v. 289; p. 400.

Industrial Chemical Company, New York, N. Y. Acetone, wood-alcohol, cymene, &c. No. 118,757; Aug. 9; v. 289; p. 375.

International Drug Company, Wilmington, Del. Cod-liver oil, cold-cream, witch-hazel, &c. No. 131,173; Aug. 9; v. 289; p. 377.

International Housing Corporation, Jersey City, N. J., and New York, N. Y. Metal buildings and metal-building sections. No. 148,073; Aug. 9; v. 289; p. 403.

International Magazine Company, New York, N. Y. Monthly magazine. No. 148,278; Aug. 9; v. 289; p. 404.

Irokese Trading Corporation, New York, N. Y. Dolls. No. 146,488; Aug. 9; v. 289; p. 396.

Jackson, Emma B., Helena, Ark. Hair-grower, pressing-oil, shampoo, &c. No. 136,562; Aug. 9; v. 289; p. 380.

Janowitch, J. H., & Janov, Inc., New York, N. Y. Infants' and children's clothing. No. 145,630; Aug. 9; v. 289; p. 394.

Johnson & Johnson, New Brunswick, N. J. Baby-cream for toilet and nursery. No. 145,951; Aug. 9; v. 289; p. 394.

Johnson-Appleby Company, Boston, Mass. Baking-powder. No. 146,560; Aug. 9; v. 289; p. 397.

Jones, Thomas R., Wilkes-Barre, Pa. Miners' caps. No. 146,772; Aug. 9; v. 289; p. 400.

Jordan Marsh Company, Boston, Mass. Golf-clubs. No. 148,027; Aug. 9; v. 289; p. 403.

Kahn Manufacturing Company, Mobile, Ala. Overalls, coveralls, trousers, palm-beach suits. No. 143,499; Aug. 9; v. 289; p. 386.

Kaye Manufacturing Company, Detroit, Mich. Toy vacuum-cleaner and dust-bags. No. 144,920; Aug. 9; v. 289; p. 389.

Kentucky Distilleries & Warehouse Co., New York, N. Y. Denatured alcohol. No. 144,778; Aug. 9; v. 289; p. 389.

Kester, U. F. (See Mitchell, John W., assignor.)

Kochman, Louis B., Newport, N. Y. Baking-powder. No. 147,152; Aug. 9; v. 289; p. 401.

Kolar, G. S., Laboratories, Chicago, Ill. Skin-astringent, antiseptic oil, brilliantine, depilatories, &c. No. 146,564; Aug. 9; v. 289; p. 397.

Knipe Bros. Inc., Haverhill, Mass. Leather boots and shoes. No. 141,400; Aug. 9; v. 289; p. 383.

Kraeuter & Co. Inc., Newark, N. J. Golf-putters. No. 146,263; Aug. 9; v. 289; p. 395.

Kubanek, Ludmilla, Lorain, Ohio. Medicine for influenza, cold, cholera, and pneumonia. No. 143,694; Aug. 9; v. 289; p. 387.

Kunstler, Isador, New York, N. Y. Cravats. No. 145,220; Aug. 9; v. 289; p. 392.

Lafana Company, San Francisco, Calif. Dentifrice. No. 145,071; Aug. 9; v. 289; p. 390.

La Mira Chemical Co., New York, N. Y. Hair-dyes. No. 146,379; Aug. 9; v. 289; p. 396.

Lang & Preasprich, New Rochelle, N. Y. Toy music-boxes. No. 149,763; Aug. 9; v. 289; p. 406.

Larkin Co., Inc., Buffalo, N. Y. Soaps, polish for shoes, metal, silver, and stones, washing-tablets, &c. No. 146,490; Aug. 9; v. 289; p. 396.

Le Benart Import Co. Inc., New York, N. Y. Perfumes, toilet waters, liquid and solid brilliantines, &c. No. 145,276; Aug. 9; v. 289; p. 392.

Liberty Paper Co., New York, N. Y. Dress-form sets. No. 147,786; Aug. 9; v. 289; p. 403.

Lincoln, Edward K., New York, N. Y. Lubricating-oil. No. 144,817; Aug. 9; v. 289; p. 389.

Lincoln Dental Mfg. Co., Philadelphia, Pa. Teeth-crowns. No. 138,862; Aug. 9; v. 289; p. 381.

Little Servant Mfg. Co., Jersey City, N. J. Tablets for washing fabrics of various kinds. No. 148,867; Aug. 9; v. 289; p. 405.

Loegler, Chretien, Clifton, N. J., assignor to Monica Textile Corporation. Woven fabrics in the piece. No. 131,431; Aug. 9; v. 289; p. 377.

Lubricants Company, The, Dayton, Ohio. Lubricating oils and greases. No. 149,088; Aug. 9; v. 289; p. 406.

Lund, Florence E., Chicago, Ill. Corsets and brassières. No. 143,131; Aug. 9; v. 289; p. 385.

Lyon Botanical Co. Inc., The, New York, N. Y. Insect-powder. No. 146,442; Aug. 9; v. 289; p. 396.

Maag, Edward, New York, N. Y. Upholstery and drapery trimmings. No. 143,288; Aug. 9; v. 289; p. 386.

Mackay, Frances W., Norwalk, Conn. Outer cover-all garment for children. No. 145,636; Aug. 9; v. 289; p. 394.

Macungie Silk Company, Macungie, Pa. Blanket-bindings and tapes. No. 147,038; Aug. 9; v. 289; p. 401.

Maillinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 144,584; Aug. 9; v. 289; p. 388.

Malone & Hyde, Inc., Memphis, Tenn. Publications published periodically. No. 148,500; Aug. 9; v. 289; p. 404.

Marrus, Isaac I., Scranton, Pa. Clothing comprising suits for men, young men, boys, and children, &c. No. 146,572; Aug. 9; v. 289; p. 397.

Marshall Field & Company, Chicago, Ill. Toilet preparations—namely, cold-cream, toilet water, and talcum powder. No. 146,539; Aug. 9; v. 289; p. 397.

Marshall Field & Company, Chicago, Ill. Skin-lotion. No. 146,540; Aug. 9; v. 289; p. 397.

Marvel Compound Company, San Jose, Calif. Boiler, gas-engine, and radiator compound. No. 147,117; Aug. 9; v. 289; p. 401.

Mayer, G. M., New York, N. Y. Scissors, shears, pocket-knives, and razors. No. 141,238; Aug. 9; v. 289; p. 383.

McCrillus Medical Co., Crown Point, Ind. Laxative tablets. No. 145,522; Aug. 9; v. 289; p. 393.

Medlicott Company, The, Windsor Locks, Conn. Wool underwear. No. 146,643; Aug. 9; v. 289; p. 399.

Midland Playing Card Co., La Fayette, Ind. Playing-cards. No. 148,607; Aug. 9; v. 289; p. 404.

Millikin, Hugh E., Niagara Falls, N. Y. Publications. No. 124,660; Aug. 9; v. 289; p. 376.

Mitchell-Bissell Company, New York, N. Y. Guides and tips for fishing-rods. No. 147,563; Aug. 9; v. 289; p. 402.

Mitchell, John W., assignor to U. F. Kester, Paso Robles, Calif. Liniment. No. 139,623; Aug. 9; v. 289; p. 382.

Monica Textile Corporation. (See Loegler, Chretien, assignor.)

Moon-Shine Manufacturing Company, Chillicothe, Mo. Lubricating-oil. No. 148,946; Aug. 9; v. 289; p. 405.

Morris, Mann & Reilly, Chicago, Ill. Baby-pants. Nos. 146,723–4; Aug. 9; v. 289; p. 400.

Myers Dry Goods Co., Morristown, Tenn. Hosiery, underwear, sweaters, &c. No. 140,130; Aug. 9; v. 289; p. 382.

National Drug Stores Corp., New York, N. Y. Soap cream used before shaving. No. 148,752; Aug. 9; v. 289; p. 405.

National Licorice Company, Brooklyn, N. Y. Licorice candy. No. 134,028; Aug. 9; v. 289; p. 379.

(REGISTRATION APPLIED FOR.)

Nestle's Food Company, Inc., New York, N. Y. Unsweetened evaporated milk. No. 143,183; Aug. 9; v. 289; p. 385.
Nicholas, L. V., Oil Company, Omaha, Nebr. Liquid used for cleaning clothing. No. 147,370; Aug. 9; v. 289; p. 402.
Nonotuck Silk Company, Northampton, Mass. Piece goods of silk, &c. No. 113,130; Aug. 9; v. 289; p. 375.
Nourse Company, Inc., The, New York, N. Y. Books, booklets, pamphlets, catalogues, and similar publications. No. 141,386; Aug. 9; v. 289; p. 383.
Novak, John, Company, Chicago, Ill. Salve for rheumatism, sprains, colds, &c. No. 144,036; Aug. 9; v. 289; p. 387.
Nu-Way Strech Suspender Co., Adrian, Mich. Men's suspenders and hose-supporters. No. 146,575; Aug. 9; v. 289; p. 398.
Odorono Company, The, Cincinnati, Ohio. Depilatories. No. 142,718; Aug. 9; v. 289; p. 385.
Oppenheim, Oberndorf & Co. Inc., Baltimore, Md. Collars. No. 146,777; Aug. 9; v. 289; p. 400.
Pacific Mills, Lawrence and Boston, Mass. Cotton serge in the piece. No. 142,650; Aug. 9; v. 289; p. 384.
Panicucci, Vergiglio, Christopher, Ill. Medicine for eyes. No. 144,152; Aug. 9; v. 289; p. 388.
Parke, Davis & Company, Detroit, Mich. Tonic nutritive and alterative. No. 147,123; Aug. 9; v. 289; p. 401.
Patrick-Young Co., Richmond, Va. Hams, bacon, lard. No. 136,952; Aug. 9; v. 289; p. 380.
Pearson, L. G., Corp., Niagara Falls, N. Y. Polishing-cloths for gold, silver, and all precious metals. No. 147,847; Aug. 9; v. 289; p. 403.
Penn Textile Company, New York, N. Y. Textile fabrics. No. 137,386; Aug. 9; v. 289; p. 380.
Porter Chemical Company, The, Hagerstown, Md. Game. No. 149,096; Aug. 9; v. 289; p. 406.
Price, William H., Jr., Akron, Ohio. Dancing dolls. No. 144,634; Aug. 9; v. 289; p. 388.
Przedecki, Ludwig, Breslau, Germany. Tobacco, snuff, cigars, cigarettes. No. 135,615; Aug. 9; v. 289; p. 379.
Public Ledger Company, Philadelphia, Pa. Newspaper-cartoons. No. 140,774; Aug. 9; v. 289; p. 406.
Puritan Drug Mfg. Co., Columbus, Ohio. Petroleum jelly for dressing wounds, burns, &c. No. 146,648; Aug. 9; v. 289; p. 399.
Puritan Drug Mfg. Co., Columbus, Ohio. Salve for relieving aches, pains, bronchitis, &c. No. 146,649; Aug. 9; v. 289; p. 399.
Puritan Drug Mfg. Co., Columbus, Ohio. Balm for relieving catarrh, &c. No. 146,650; Aug. 9; v. 289; p. 399.
Radium Oil Company, Cincinnati, Ohio. Lubricating-oils. No. 148,348; Aug. 9; v. 289; p. 404.
Rainbow Shirt Corporation, New York, N. Y. Dress, negligée, and work shirts. No. 145,754; Aug. 9; v. 289; p. 394.
Red Star Milling Company, The, Wichita, Kans. Wheat-flour. No. 143,221; Aug. 9; v. 289; p. 386.
Reynolds, Bion F., Brockton, Mass. Shoes made of leather, fabric, rubber, or combinations of same. No. 144,590; Aug. 9; v. 289; p. 388.
Rhinol Co., Inc., New York, N. Y. Antiseptic powder for treatment of the nose and throat. No. 132,323; Aug. 9; v. 289; p. 378.
Roberts, W. F., Company, Inc., Washington, D. C. Printed and engraved matter. No. 149,559; Aug. 9; v. 289; p. 406.
Rose and Company, New York, N. Y. Magazines and pamphlets published monthly. No. 146,592; Aug. 9; v. 289; p. 398.
Rothstein, Hugo, St. Louis, Mo. Medicamental tablets. No. 145,042; Aug. 9; v. 289; p. 390.
Rudd, Josephine C., Richmond, Va. Compound for promoting the growth of the hair. No. 129,123; Aug. 9; v. 289; p. 376.
Sagan, Jurko, Yorklyn, Del. Salve for cuts, wounds, and bruises and a general medicinal tonic. No. 144,054; Aug. 9; v. 289; p. 387.
Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Disinfectants, insecticides, and deodorants. Nos. 146,600–2; Aug. 9; v. 289; p. 398.
Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Disinfectants and air-conditioning preparations. No. 146,603; Aug. 9; v. 289; p. 398.
Saul, Tom W., Seattle, Wash. Hairpins and combs. No. 147,472; Aug. 9; v. 289; p. 402.
Schnack, Martin R., Los Angeles, Calif. Patented type of doll with flexible joints. No. 147,642; Aug. 9; v. 284; p. 402.
Schneider, Battinus & Simon, Chicago, Ill. Hosiery. No. 146,597; Aug. 9; v. 289; p. 398.
Sears and Nichols Canning Co., The, Chillicothe, Ohio. Canned vegetables. No. 135,579; Aug. 9; v. 289; p. 379.
Sehon, Stevenson and Company, Huntington, W. Va. Coffee. No. 118,861; Aug. 9; v. 289; p. 376.
Shipman, Clara M., Chicago, Ill. Preparation for catarrh and inflammation of the nose and throat. No. 142,892; Aug. 9; v. 289; p. 385.
Silfin, Louis, New York, N. Y. Dress, negligée, and work shirts. No. 143,845; Aug. 9; v. 289; p. 387.
Snappy Soldering Paste Co. Inc., Tonawanda, N. Y. Soldering paste. No. 145,132; Aug. 9; v. 289; p. 390.
Society of Chemical Industry in Basle, Basel, Switzerland. Vitamine preparations, nerve-tonics, malt extracts, &c. Nos. 139,377–8; Aug. 9; v. 289; pp. 381–2.
Solomon, Hamdt, Holliday, Mo. Healing preparation of local application for catarrh, hay-fever, &c. No. 145,536; Aug. 9; v. 289; p. 394.
Sophie Mae Candy Corporation, The, Atlanta, Ga. Candy. No. 135,953; Aug. 9; v. 289; p. 380.
South, Jerome J., Memphis, Tenn. Lubricating motor-oil, cap-greases, &c. No. 125,862; Aug. 9; v. 289; p. 376.
Spoehr's, Chicago, Ill. Candy. No. 142,110; Aug. 9; v. 289; p. 383.
Spokane Dry Goods Company, Spokane, Wash. Mackinaws and overcoats. No. 146,598; Aug. 9; v. 289; p. 398.
Standard Oil Company, Bayonne, N. J. Petroleum-oil. No. 147,214; Aug. 9; v. 289; p. 401.
Sté. Anonyme des Produits Dorilly, Paris, France. Toilet creams, perfumes, rouges, &c. No. 143,669; Aug. 9; v. 289; p. 387.
Steroline Company, Atlanta, Ga. Antiseptic mouth-wash. No. 129,810; Aug. 9; v. 289; p. 377.
Stom-A-Lax Medicine Co., Sanford, Fla. Chemicals, medicines, and pharmaceutical preparations. No. 118,356; Aug. 9; v. 289; p. 375.
Stroud, Samuel L., Oakland, Calif. Grass rugs. No. 147,576; Aug. 9; v. 289; p. 402.
Sun Company, Philadelphia, Pa. Lubricating-oils. No. 147,850; Aug. 9; v. 289; p. 403.
Swift & Company, Chicago, Ill. Soap. No. 134,731; Aug. 9; v. 289; p. 379.
Swihart, Cyrus E., Harpter, Ohio. Pliers. No. 145,419; Aug. 9; v. 289; p. 393.
Tailored Silk Undergarment Co., New York, N. Y. Underwear—namely, chemises, bloomers, camisoles, &c. No. 142,115; Aug. 9; v. 289; p. 383.
Texas Company, The, Houston, Tex., and New York, N. Y. Petroleum products. No. 131,050; Aug. 9; v. 289; p. 377.
Torbell Company, The, Boston, Mass. Monthly magazines. No. 147,693; Aug. 9; v. 289; p. 402.
Towmotor Company, The, Cleveland, Ohio. Gasolene industrial tractors. No. 142,180; Aug. 9; v. 289; p. 384.
Tremonte Co., The, Philadelphia, Pa. Face-powder. No. 142,430; Aug. 9; v. 289; p. 384.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Golf-balls. No. 146,280; Aug. 9; v. 289; p. 395.
Victor Balata & Textile Belting Co., New York, N. Y., and Easton, Pa. Textile belting. No. 149,529; Aug. 9; v. 289; p. 406.
Victor Rubber Company, The, Springfield, Ohio. Rubber and fabric outer casings for pneumatic automobile-tires and inner tubes. No. 147,809; Aug. 9; v. 289; p. 403.
Vitalait Laboratory, The, Newton and Newton Center, Mass. Bacteriological starting culture. No. 146,097; Aug. 9; v. 289; p. 395.
Wagner, Horace C., Walters, Okla. Medicinal preparation used in the treatment of biliousness, constipation. No. 142,373; Aug. 9; v. 289; p. 384.
Waistcraft Corporation, New York, N. Y. Waists. No. 145,538; Aug. 9; v. 289; p. 394.
Walther, Louis, Manufacturing Company, Philadelphia, Pa. Worsted, woolen, &c., piece goods. No. 140,534; Aug. 9; v. 289; p. 382.
Watt, William, Mount Dora, Fla. Citrus fruits in their natural state. No. 145,373; Aug. 9; v. 289; p. 393.
Weinstein, Frank A., Pittsburgh, Pa. General tonics. No. 146,610; Aug. 9; v. 289; p. 399.
Wenzel, Paul M., Philadelphia, Pa. Tooth-powder and mouth-lotion. No. 121,612; Aug. 9; v. 289; p. 376.
Western Bottle Manufacturing Company, Chicago, Ill. Hair-nets. No. 144,887; Aug. 9; v. 289; p. 389.
White, H. C., Company, North Bennington, Vt. Three and four wheeled play wagons and coasters for children. No. 146,101; Aug. 9; v. 289; p. 395.
Whitfield, Albert S., Chattanooga, Tenn. Preparation for treatment of colds, croup, whooping-cough, &c. No. 146,607; Aug. 9; v. 289; p. 399.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 9TH DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Advertising or display device. J. Stranders. No. 1,387,209; Aug. 9; v. 289; p. 318.
Aerofoils, Method of and apparatus for making. J. G. Coffin. No. 1,386,841; Aug. 9; v. 289; p. 246.
Aeronautical machines, Safety device for. S. L. Van Meter, Jr. No. 1,386,815; Aug. 9; v. 289; p. 241.
Aeroplanes, Landing-gear for. H. M. Kudo. No. 1,387,057; Aug. 9; v. 289; p. 291.
Agitator. T. F. Taylor. No. 1,386,809; Aug. 9; v. 289; p. 239.
Air-brake system, Alarm for. R. L. Flinn. No. 1,387,002; Aug. 9; v. 289; p. 278.
Aircraft and similar apparatus, Fuel-supply system for. G. H. Curtiss and H. Kleckler. No. 1,386,846; Aug. 9; v. 289; p. 247.
Airship. K. A. Enlind. No. 1,387,247; Aug. 9; v. 289; p. 325.
Air-ship. F. H. Leinweber. No. 1,386,712; Aug. 9; v. 289; p. 220.
Airship. F. H. Leinweber. No. 1,386,713; Aug. 9; v. 289; p. 220.
Alloys, Production of metallic. W. B. Ballantine. No. 1,386,981; Aug. 9; v. 289; p. 274.
Aluminum, Soldering. M. M. Merritt. No. 1,387,426; Aug. 9; v. 289; p. 363.
Amalgamator, Cascade-. L. M. Kellogg. No. 1,386,875; Aug. 9; v. 289; p. 253.
Ammonia, Process and means relating to the production of. C. Bosch. No. 1,386,760; Aug. 9; v. 289; p. 229.
Amusement device. D. A. Alpert. No. 1,386,590; Aug. 9; v. 289; p. 195.
Apron. L. Broman. No. 1,386,595; Aug. 9; v. 289; p. 196.
Apron, Catamenial. M. S. George. No. 1,386,777; Aug. 9; v. 289; p. 232.
Arch-support. J. F. Kolkebeck. No. 1,387,411; Aug. 9; v. 289; p. 360.
Arm, Gripper-. L. J. Warner. No. 1,387,026; Aug. 9; v. 289; p. 283.
Autographic register. L. Jensen. No. 1,386,709; Aug. 9; v. 289; p. 219.
Autographic register. J. Q. Sherman. No. 1,386,963; Aug. 9; v. 289; p. 270.
Autographic register. J. Q. Sherman. No. 1,386,964; Aug. 9; v. 289; p. 271.
Automatic furnace. L. Garrison. No. 1,386,698; Aug. 9; v. 289; p. 217.
Automobile attachment. W. Trabue. No. 1,386,913; Aug. 9; v. 289; p. 261.
Automobile body and top therefor. C. T. Silver. No. 1,387,191; Aug. 9; v. 289; p. 315.
Automobile bumper. C. H. Hathaway, W. A. Starck, and L. F. McEvoy. No. 1,386,864; Aug. 9; v. 289; p. 251.
Automobile bumpers, Bracket for. W. G. Cox. No. 1,386,845; Aug. 9; v. 289; p. 247.
Automobile camp-trailer. N. R. Moore. No. 1,386,943; Aug. 9; v. 289; p. 267.
Automobile-curtain window. L. C. Nelson and J. C. Polan. No. 1,386,793; Aug. 9; v. 289; p. 236.
Automobile-hood. W. A. King. No. 1,387,407; Aug. 9; v. 289; p. 359.
Automobile-jacks, Alarm for. L. M. Fisher. No. 1,387,137; Aug. 9; v. 289; p. 305.
Automobile-lock. F. E. Roush. No. 1,387,314; Aug. 9; v. 289; p. 340.
Automobile-lock. G. S. White. No. 1,387,335; Aug. 9; v. 289; p. 344.
Automobile-radiators, Liquid-level gage for. C. A. Beardmore. No. 1,386,833; Aug. 9; v. 289; p. 245.
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Automobile tractor attachment. A. E. Cook and T. Van Tuyl. No. 1,386,842; Aug. 9; v. 289; p. 246.
Automobiles, Convertible seat for. L. B. Welch. No. 1,387,083; Aug. 9; v. 289; p. 295.
Automobiles, Register adapted to be applied to floors or footboard of. C. A. Dean. No. 1,387,131; Aug. 9; v. 289; p. 303.
Automobiles, Safety fender for. T. F. Buck. No. 1,387,100; Aug. 9; v. 289; p. 298.
Autovehicles, Grip-chain for. N. E. Montgomery. No. 1,387,429; Aug. 9; v. 289; p. 363.
Awning. L. Goudie. No. 1,386,860; Aug. 9; v. 289; p. 250.
Bag-holder. J. Sinclair. No. 1,386,658; Aug. 9; v. 289; p. 208.
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Bean-spacer. W. E. White. No. 1,387,088; Aug. 9; v. 289; p. 296.
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Bearing, Roller-. F. Brierley. No. 1,386,986; Aug. 9; v. 289; p. 275.
Beater, Drum and cymbal. R. C. Danley. No. 1,386,605; Aug. 9; v. 289; p. 198.
Beating or threshing machine. F. G. Fryer. No. 1,387,380; Aug. 9; v. 289; p. 354.
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Bed, Spring-. M. Greenwood. No. 1,387,388; Aug. 9; v. 289; p. 385.
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Billet-casting, Method and means for. C. S. Morse. No. 1,387,292; Aug. 9; v. 289; p. 335.
Billet-casting, Method and means for. C. S. Morse. No. 1,387,293; Aug. 9; v. 289; p. 335.
Billet and method and means for casting same. C. S. Morse. No. 1,387,290; Aug. 9; v. 289; p. 334.
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Binder, Staple-. B. Jahn and E. E. Kahl. No. 1,387,269; Aug. 9; v. 289; p. 329.
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Concrete-cement block.
Blow-out boot. J. A. Barnes. (Reissue.) No. 15,174; Aug. 9; v. 289; p. 366.
Blower, Rotary. J. T. Needham. No. 1,386,792; Aug. 9; v. 289; p. 236.
Blowpipe. G. L. Walker. No. 1,387,434; Aug. 9; v. 289; p. 364.
Blowpipe. G. L. Walker. No. 1,387,435; Aug. 9; v. 289; p. 364.
Blowtorch. C. H. Howell. No. 1,386,871; Aug. 9; v. 289; p. 252.
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Stove-board.
Bobbin-holder. L. A. Cadoret. No. 1,386,921; Aug. 9; v. 289; p. 263.
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Bolt and nut, Locking. F. C. Whippey. No. 1,387,085; Aug. 9; v. 289; p. 296.
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Book construction. R. G. Soderberg. No. 1,387,206; Aug. 9; v. 289; p. 317.
Boot and shoe. F. Pageau. No. 1,386,657; Aug. 9; v. 289; p. 207.

Boring-tools, Reinforcing-tube for. S. M. Chase. No. 1,386,687; Aug. 9; v. 289; p. 215.
Bottle-closures, Machine for the manufacture of. J. Binder. No. 1,387,037; Aug. 9; v. 289; p. 285.
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Bottle, Vacuum-. C. F. P. Anders. No. 1,387,337; Aug. 9; v. 289; p. 345.
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Box. H. H. Wells. No. 1,387,084; Aug. 9; v. 289; p. 295.
Box-handling device. J. G. Hartman. No. 1,386,929; Aug. 9; v. 289; p. 264.
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Automobile-body molding. H. J. Earl. No. 58,664; Aug. 9; v. 289; p. 368.
Automobile rear-sight device. H. W. Stover and B. M. Coates. No. 58,692; Aug. 9; v. 289; p. 373.
Battery-connector. G. E. Lundberg. No. 58,675; Aug. 9; v. 289; p. 370.
Bottle-cap. G. W. Goodridge. No. 58,671; Aug. 9; v. 289; p. 369.
Brush or mirror back. H. D. Mosauer. No. 58,678; Aug. 9; v. 289; p. 371.
Building-block. H. E. Clouser and E. R. Thornton. No. 58,660; Aug. 9; v. 289; p. 367.
Can-tester. H. Rabezzana. No. 58,684; Aug. 9; v. 289; p. 372.
Comb. H. D. Mosauer. No. 58,680; Aug. 9; v. 289; p. 371.
Container. H. Senften. No. 58,689; Aug. 9; v. 289; p. 373.
Cooker, Pressure-. T. V. Connor. No. 58,662; Aug. 9; v. 289; p. 368.
Drill-hole cleaner or similar article. L. J. Sortor. No. 58,691; Aug. 9; v. 289; p. 373.
Electric-light bracket. C. B. Rogers. No. 58,688; Aug. 9; v. 289; p. 373.
Electric switches, Casing for. O. H. and A. F. Pieper. No. 58,681; Aug. 9; v. 289; p. 372.
Game-board. A. Cohn and L. H. Debs. No. 58,661; Aug. 9; v. 289; p. 368.
Game-board. G. P. Garin. No. 58,670; Aug. 9; v. 289; p. 369.
Hair-cutter, Power. J. G. Beshara. No. 58,658; Aug. 9; v. 289; p. 367.
Jar opener, Fruit-. A. R. Gurnett. No. 58,672; Aug. 9; v. 289; p. 370.
Lamp-door. N. Macneale. No. 58,676; Aug. 9; v. 289; p. 371.
Pen or pencil-case. J. C. Wahl. Nos. 58,693–4; Aug. 9; v. 289; p. 374.
Phonograph-cabinet. H. L. Meidinger. No. 58,677; Aug. 9; v. 289; p. 371.
Screw or similar article. J. P. Bustis. No. 58,666; Aug. 9; v. 289; p. 368.
Signal, Traffic-. J. P. Hots. No. 58,673; Aug. 9; v. 289; p. 370.
Soda-fountain and ice-cream-dispensing apparatus. W. F. Beatty. No. 58,667; Aug. 9; v. 289; p. 367.
Spoon, Ice-cream. J. A. Rayder. No. 58,685; Aug. 9; v. 289; p. 372.
Store-front. C. H. Seymour. No. 58,690; Aug. 9; v. 289; p. 373.
Telephone-earpiece. R. W. Post. No. 58,682; Aug. 9; v. 289; p. 372.
Tie-fastener and soft-collar retainer, Combined. H. I. Felix. No. 58,667; Aug. 9; v. 289; p. 368.
Tire-tread. W. G. Lerch. No. 58,674; Aug. 9; v. 289; p. 370.
Tire-tread. J. W. Price. No. 58,683; Aug. 9; v. 289; p. 372.
Toilet-article handle. H. D. Mosauer. No. 58,679; Aug. 9; v. 289; p. 371.
Tool, Combination-. A. H. Crampton. No. 58,663; Aug. 9; v. 289; p. 368.
Tooth cleaner and support, Combined. L. A. Gable. Nos. 58,668–9; Aug. 9; v. 289; p. 369.
Toy bowling-alley. H. Reuhl. No. 58,686; Aug. 9; v. 289; p. 373.
Vehicle, Child's. J. T. Casey. No. 58,659; Aug. 9; v. 289; p. 367.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Aprons and house-dresses. Ward-Stilson Company. No. 145,588; Aug. 9; v. 289; p. 408.
Bedspreads. Stevens Manufacturing Co. No. 145,583; Aug. 9; v. 289; p. 488.
Bench grinding-machines. Duwell Manufacturing Company. No. 145,554; Aug. 9; v. 289; p. 407.
Blouses, play-suits, or rompers, &c., Boys'. Sonny Manufacturing Co. No. 145,582; Aug. 9; v. 289; p. 408.
Boilers and appurtenances thereto, Steam-. Christopher Cunningham Company. No. 145,547; Aug. 9; v. 289; p. 407.
Booklets and pamphlets, Printed. American Social Hygiene Association. No. 145,534; Aug. 9; v. 289; p. 407.
Boots, shoes, and slippers. Thomas G. Plant Company. Nos. 145,571–2; Aug. 9; v. 289; p. 408.
Bread. G. E. Lindblom. No. 145,565; Aug. 9; v. 289; p. 408.
Candies. The Brecht Candy Co. No. 145,539; Aug. 9; v. 289; p. 407.
Candies, Chocolate. Dinou Brothers. No. 145,551; Aug. 9; v. 289; p. 407.
Canned fruits. Richmond Chase Company. No. 145,578; Aug. 9; v. 289; p. 408.
Canned fruits and berries, &c. Brownsville Canning Co. No. 145,542; Aug. 9; v. 289; p. 407.
Canned fruits and vegetables. California Co-Operative Canneries. No. 145,545; Aug. 9; v. 289; p. 407.
Clothes, Workingmen's. Knorr-Schlaudt Wholesale Co. No. 145,563; Aug. 9; v. 289; p. 408.
Clothing. George Borgfeldt & Co. No. 145,538; Aug. 9; v. 289; p. 407.
Clothing. Brownstein-Louis Company. No. 145,540; Aug. 9; v. 289; p. 407.
Clothing. Brummel & Mendelsohn. No. 145,543; Aug. 9; v. 289; p. 407.
Clothing. J. A. Migel, Inc. No. 145,567; Aug. 9; v. 289; p. 408.
Clothing. C. Munter. No. 145,568; Aug. 9; v. 289; p. 408.
Concrete products, Machinery for manufacturing. Post Manufacturing Company. No. 145,573; Aug. 9; v. 289; p. 408.
Corsets and brassières. American Lady Corset Co. No. 145,533; Aug. 9; v. 289; p. 407.
Cotton and silk piece goods, and combinations of same. Friedman & Krieger. No. 145,557; Aug. 9; v. 289; p. 407.
Cotton goods in the piece. Hettrick Manufacturing Company. No. 145,561; Aug. 9; v. 289; p. 408.
Dresses, waists, and undergarments, Ladies'. J. H. Valenstein. No. 145,586; Aug. 9; v. 289; p. 408.
Egg albumen and yolk, Powdered. Orbis Products Trading Co. No. 145,570; Aug. 9; v. 289; p. 408.
Food, Prepared cereal breakfast. E. Berliner. No. 145,537; Aug. 9; v. 289; p. 407.
Fruit, Fresh deciduous. Graham-Henshaw. No. 145,558; Aug. 9; v. 289; p. 407.
Fur coats, capes, sets, scarfs, &c. Carson Pirie Scott & Co. No. 145,580; Aug. 9; v. 289; p. 408.
Hats and hat-frames. Robinson Straus & Co. No. 145,584; Aug. 9; v. 289; p. 408.
Hosiery. H. K. Regar & Sons. No. 145,576; Aug. 9; v. 289; p. 408.
Knives and sharpening-steels. Regal Silver Mfg. Co. No. 145,575; Aug. 9; v. 289; p. 408.
Magazine or house organ, Monthly. Association of Army and Navy Stores. No. 145,536; Aug. 9; v. 289; p. 407.
Marmalade and jelly, Orange. California Fruit Products Co. No. 145,546; Aug. 9; v. 289; p. 407.
Medical journal, Monthly. Medical Council. No. 145,566; Aug. 9; v. 289; p. 408.
Oleomargarin. Crown Margarin Company. Nos. 145,549–50; Aug. 9; v. 289; p. 407.
Overalls, jumpers, pants of khaki, corduroy, &c. Brownstein-Louis Company. No. 145,541; Aug. 9; v. 289; p. 407.
Overcoats, Men's. Harrods (North America) Ltd. No. 145,560; Aug. 9; v. 289; p. 408.
Phonograph-needles and the like, Cutters for. G. Lidseen. No. 145,564; Aug. 9; v. 289; p. 408.
Pile fabrics in the piece. Salt's Textile Manufacturing Company. No. 145,579; Aug. 9; v. 289; p. 408.
Printed pamphlets, circulars, and books. Community Service (Incorporated). No. 145,548; Aug. 9; v. 289; p. 407.
Publication, Semiannual. J. A. Vogelmann. No. 145,587; Aug. 9; v. 289; p. 408.
Publications issued monthly. Armstrong Cork Co. No. 145,535; Aug. 9; v. 289; p. 407.

Scythes and axes. Dunn Edge Tool Co. No. 145,553; Aug. 9; v. 289; p. 407.
Shoes. Queen City Turn Shoe Company. No. 145,574; Aug. 9; v. 289; p. 408.
Suits, Men's. Isaacs & Kubrin. No. 145,562; Aug. 9; v. 289; p. 408.
Suspenders, garters, armbands, and belts. Ohio Suspender Company. No. 145,569; Aug. 9; v. 289; p. 408.
Switches, Overhead tramway-. J. Duncan Company. No. 145,552; Aug. 9; v. 289; p. 407.
Tire-pumps and grease-guns. B. & S. Manufacturing Co. No. 145,544; Aug. 9; v. 289; p. 407.
Typewriters. Sears, Roebuck and Co. No. 145,581; Aug. 9; v. 289; p. 408.
Underwear, Hand-embroidered. French American Import Co. No. 145,556; Aug. 9; v. 289; p. 407.
Underwear for male wear, Woven cotton-fabric. Regatta Manufacturing Co. No. 145,577; Aug. 9; v. 289; p. 408.
Voile piece goods. Turner & Wallis. No. 145,585; Aug. 9; v. 289; p. 408.
Waists and blouses. Gross & Weiss, Inc. No. 145,559; Aug. 9; v. 289; p. 407.
Woolen and woolen and silk piece goods. Joseph Eckstein, Inc. No. 145,555; Aug. 9; v. 289; p. 407.

ALPHABETICAL LIST OF LABELS.

"Ayer's Face Cream." (For Face-Cream.) Harriet Hubbard Ayer. Nos. 23,156–7; Aug. 9; v. 289; p. 409.
"Ayeristocrat." (For Non-Greasy, Finishing, and Vanishing Cream.) Harriet Hubbard Ayer. No. 23,153; Aug. 9; v. 289; p. 409.
"Big Lick." (For Hard Candy on Sticks.) Roanoke Candy Company, Inc. No. 23,168; Aug. 9; v. 289; p. 409.
"Coal Dust Twins." (For Puzzles.) C. Carroll. No. 23,162; Aug. 9; v. 289; p. 409.
"Coeur de Violette." (For Cerate.) Harriet Hubbard Ayer. No. 23,159; Aug. 9; v. 289; p. 409.
"Cuticle Remover." (For Preparation for Removing Surplus Cuticle.) Harriet Hubbard Ayer. No. 23,161; Aug. 9; v. 289; p. 409.
"Greco." (For Candy-Boxes.) The C. J. Fox Company. No. 23,163; Aug. 9; v. 289; p. 409.
"Heller's Golden Gloss Shine." (For Containers Holding Heller's Golden Gloss Shine, a Metal-Polish.) B. Heller & Co. No. 23,164; Aug. 9; v. 289; p. 409.
"Lip Sticks." (For Rouge, Cream, or Healing Compound in the Form of Sticks and for Application to the Lips.) Harriet Hubbard Ayer. No. 23,160; Aug. 9; v. 289; p. 409.
"Liquid Nail Enamel." (For Enamel for the Nails.) Harriet Hubbard Ayer. No. 23,152; Aug. 9; v. 289; p. 409.
"Luxuria." (For Cosmetics.) Harriet Hubbard Ayer. No. 23,158; Aug. 9; v. 289; p. 409.
"Orange-Zest." (For Containers Holding Orange-Zest, an Orange Flavoring Compound.) B. Heller & Co. No. 23,165; Aug. 9; v. 289; p. 409.
"Ozo Waste Pipe Opener." (For Receptacles Containing Ozo Waste-Pipe Opener, a Preparation for Opening Stopped-Up Pipes.) B. Heller & Co. No. 23,167; Aug. 9; v. 289; p. 409.
"Service Telephone Index." (For Indexed Blank Memorandum-Booklets to be Used as Telephone Memorandum-Records by Telephone Subscribers.) Frank A. Weeks Mfg. Co. No. 23,169; Aug. 9; v. 289; p. 409.
"Skin & Tissue Builder." (For Preparations for the Skin and Tissues and Massage-Cream.) Harriet Hubbard Ayer. Nos. 23,154–5; Aug. 9; v. 289; p. 409.
"Tanaline." (For Receptacles Containing Tanaline, a Preparation for Tanning Animal Skins. B. Heller & Co. No. 23,166; Aug. 9; v. 289; p. 409.
"Wrigley's P-K's Sugar Coated Gum." (For Gum.) Wm. Wrigley, Jr., Company. Nos. 23,170–1; Aug. 9; v. 289; p. 409.

ALPHABETICAL LIST OF PRINTS.

"Autoists' Accurate Garage Thermometer." (For Garage-Thermometer.) H. Hoelderle Co. No. 5,689; Aug. 9; v. 289; p. 409.
"Don't Forget Your Woman's Home Companion." (For Advertising Purposes for a Periodical Publication Entitled *Woman's Home Companion*.) The Crowell Publishing Company. No. 5,686; Aug. 9; v. 289; p. 409.
"Everybody Needs One." (For Advertising Purposes for Umbrellas.) Umbrella Manufacturers Association of America. No. 5,692; Aug. 9; v. 289; p. 409.
"Here's Your Latest American Magazine." (For Advertising Purposes for a Periodical Publication Entitled *American Magazine*.) The Crowell Publishing Company. No. 5,687; Aug. 9; v. 289; p. 409.
"He's Painting It with Cook's." (For Advertising Purposes for Paint Products.) Cook Paint & Varnish Company. No. 5,685; Aug. 9; v. 289; p. 409.
"Hills Bros. Red Can Coffee." (For Advertising Purposes for Coffee.) Hills Bros. No. 5,688; Aug. 9; v. 289; p. 409.
"Order Post Toasties To-Day." (For Advertising Purposes for Cereal Foods—Corn Flakes.) Postum Cereal Co., Inc. No. 5,690; Aug. 9; v. 289; p. 409.
"Tell Time Right." (For Advertising Purposes for Watches and Clocks.) J. P. Becker. No. 5,684; Aug. 9; v. 289; p. 409.
"Wink." (For Advertising Purposes for Ginger-Flavored Beverages.) Star Beverage Company. No. 5,691; Aug. 9; v. 289; p. 409.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Acetone, wood-alcohol, cymene, &c. Industrial Chemical Company. No. 118,757; Aug. 9; v. 289; p. 375.
Amusement game apparatus, Horse-racing. L. A. Elfman. No. 148,638; Aug. 9; v. 289; p. 387.
Amusement game apparatus, Horse-racing. L. A. Elfman. No. 145,158; Aug. 9; v. 289; p. 390.
Antiseptic powder for the treatment of affections of the nose and throat. Rhinol Co. No. 132,323; Aug. 9; v. 289; p. 378.
Baby-pants. Morris, Mann & Reilly. Nos. 146,723–4; Aug. 9; v. 289; p. 400.
Bacteriological starting culture. Vitalait Laboratory. No. 146,097; Aug. 9; v. 289; p. 395.
Baking-powder. Johnson-Appleby Company. No. 146,560; Aug. 9; v. 289; p. 397.
Baking-powder. L. B. Kochman. No. 147,152; Aug. 9; v. 289; p. 401.
Balls, Golf-. United States Rubber Company. No. 146,280; Aug. 9; v. 289; p. 395.
Balm for relieving catarrh, hay-fever, &c. Puritan Drug Mfg. Co. No. 146,650; Aug. 9; v. 289; p. 399.
Baseball-bats. Hilton Collins Co. Incorporated. No. 144,773; Aug. 9; v. 289; p. 389.
Belting, Leather. Hide Leather & Belting Co. No. 133,310; Aug. 9; v. 289; p. 378.
Belting, Textile. Victor Balata & Textile Belting Co. No. 149,529; Aug. 9; v. 289; p. 406.
Beverage and syrup from which it is prepared. J. H. Ewing. No. 148,875; Aug. 9; v. 289; p. 405.
Blanket-bindings and tapes. Macungie Silk Company. No. 147,038; Aug. 9; v. 289; p. 401.
Blankets. Chatham Manufacturing Company. No. 148,482; Aug. 9; v. 289; p. 404.
Blankets. Chatham Manufacturing Company. Nos. 148,485–6; Aug. 9; v. 289; p. 404.
Boiler, gas-engine, and radiator compound. Marvel Compound Company. No. 147,117; Aug. 9; v. 289; p. 401.
Books, booklets, pamphlets, catalogues, and similar publications. Nourse Company. No. 141,386; Aug. 2; v. 289; p. 383.
Boots and shoes, Leather. Knipe Bros. No. 141,460; Aug. 9; v. 289; p. 383.
Boots, shoes, slippers, &c. Bailey Co. Nos. 144,177–8; Aug. 9; v. 289; p. 388.
Bread and rolls, cakes, and pastry, Wheat. Frank L. Hall Co. No. 146,554; Aug. 9; v. 289; p. 397.
Brilliantine, face powder and lotion. M. M. R. Vve. Grenoville. No. 145,193; Aug. 9; v. 289; p. 392.
Candy. Howard H. Hoyt Candy Co. No. 141,834; Aug. 9; v. 289; p. 383.
Candy. Sophie Mae Candy Corporation. No. 135,953; Aug. 9; v. 289; p. 380.
Candy. Spoehr's. No. 142,110; Aug. 9; v. 289; p. 383.
Candy, Licorice. National Licorice Company. No. 134,028; Aug. 9; v. 289; p. 379.
Canned fruits and vegetables, fruit preserves. Croker Packing Co. No. 133,448; Aug. 9; v. 289; p. 378.
Canned fruits and vegetables, wheat-flour, &c. Central States Cooperative Wholesale Society. No. 138,539; Aug. 9; v. 289; p. 381.
Canned vegetables. Sears and Nichols Canning Co. No. 135,579; Aug. 9; v. 289; p. 379.
Caps, Miner's. T. R. Jones. No. 146,772; Aug. 9; v. 289; p. 400.
Cards, Playing-. George B. Hurd & Co. No. 144,775; Aug. 9; v. 289; p. 389.
Cards, Playing-. Midland Playing Card Co. No. 148,607; Aug. 9; v. 289; p. 404.
Cartoons, Newspaper-. Public Ledger Company. No. 149,774; Aug. 9; v. 289; p. 406.
Chemical preparation for protection of cured meat from skippers, &c. E. E. Gooch Manufacturing Co. No. 145,506; Aug. 9; v. 289; p. 393.
Chocolate, Sweet. Hooton Cocoa Company. No. 127,123; Aug. 9; v. 289; p. 376.
Cleaning clothing, Liquid for. L. V. Nicholas Oil Company. No. 147,370; Aug. 9; v. 289; p. 402.
Cleansing Compound. Hysan Manufacturing Co. No. 140,594; Aug. 9; v. 289; p. 382.
Clothing. I. I. Marrus. No. 146,572; Aug. 9; v. 289; p. 397.
Clothing, Infants' and children's. J. H. Janowitch & Janov, Inc. No. 145,630; Aug. 9; v. 289; p. 394.
Coffee. Sehon, Stevenson and Company. No. 118,861; Aug. 9; v. 289; p. 376.
Coffee, sugar, tea, soup, &c. Icy-Hot Bottle Company. No. 146,912; Aug. 9; v. 289; p. 400.
Collars. Oppenheim, Oberndorf & Co. No. 146,777; Aug. 9; v. 289; p. 400.
Cologne, Eau-de-. M. M. R. Vve. Grenoville. No. 145,191; Aug. 9; v. 289; p. 391.
Corsets and brassières. F. E. Lund. No. 143,131; Aug. 9; v. 289; p. 385.
Cough-drops. J. R. Council. No. 146,523; Aug. 9; v. 289; p. 397.
Cravats. I. Kunstler. No. 145,220; Aug. 9; v. 289; p. 392.
Cream, Baby-. Johnson & Johnson. No. 145,951; Aug. 9; v. 289; p. 394.
Creams, perfumes, rouges, &c., Toilet. Sté. Anonyme des Produits Dorilly. No. 143,669; Aug. 9; v. 289; p. 387.
Denatured alcohol. Kentucky Distilleries & Warehouse Co. No. 144,778; Aug. 9; v. 289; p. 389.
Dentifrice. Lafana Company. No. 145,071; Aug. 9; v. 289; p. 390.
Depilatories. Odorono Company, The. No. 142,718; Aug. 9; v. 289; p. 385.
Disinfectants and air-conditioning preparations. Sanitas Company. No. 146,603; Aug. 9; v. 289; p. 398.
Disinfectants, insecticides, deodorants. Sanitas Company. Nos. 146,600–2; Aug. 9; v. 289; p. 398.
Display-shelves. H. B. Howe Company. No. 147,287; Aug. 9; v. 289; p. 401.
Doll with flexible joints, Patented type of. M. R. Schnack. No. 147,642; Aug. 9; v. 289; p. 402.
Dolls. Irokese Trading Corporation. No. 146,488; Aug. 9; v. 289; p. 396.
Dolls, Dancing. W. H. Price, Jr. No. 144,634; Aug. 9; v. 289; p. 388.
Dress-form sets. Liberty Paper Co. No. 147,786; Aug. 9; v. 289; p. 403.
Driers and spray-nozzles. W. L. Fleisher & Co. No. 137,316; Aug. 2; v. 289; p. 380.
Extracts of banana imitation, lemon, orange, &c. Elk Manufacturing Company. No. 133,529; Aug. 9; v. 289; p. 379.
Fabrics in the piece, Woven. C. Loegler. No. 131,431; Aug. 9; v. 289; p. 377.
Face-astringent and skin-tightener. Harriet Hubbard Ayer. No. 146,364; Aug. 9; v. 289; p. 395.
Felt polishing-wheels and felts therefor. Eastern Felt Company. No. 142,784; Aug. 9; v. 289; p. 385.
Fishing-lines. S. Allcock & Co. No. 147,000; Aug. 9; v. 289; p. 400.
Fishing-rods, Guides and tips for. Mitchell-Bissell Company. No. 147,563; Aug. 9; v. 289; p. 402.
Fluids, Engine for starting. Hall-Thompson Company. No. 145,449; Aug. 9; v. 289; p. 393.
Flour, Pastry-. Dayton Milling Company. No. 143,549; Aug. 9; v. 289; p. 386.
Flour, Wheat-. Ballard & Ballard Company. No. 146,685; Aug. 9; v. 289; p. 399.
Flour, Wheat-. Red Star Milling Company. No. 143,221; Aug. 9; v. 289; p. 386.
Flours and cocoa, Prepared biscuit, &c. C. F. Blanke Sales Company. No. 138,976; Aug. 9; v. 289; p. 381.
Fruits in their natural state, Citrus. W. Watt. No. 145,373; Aug. 9; v. 289; p. 393.
Fur-skins. A. Hollander & Son. No. 133,053; Aug. 9; v. 289; p. 378.
Game. Porter Chemical Company. No. 149,096; Aug. 9; v. 289; p. 406.
Garment for children, Outer cover-all. F. W. Mackay. No. 145,636; Aug. 9; v. 289; p. 394.
Gasolene, lubricating oils and greases, &c. American Pacific Company. No. 129,771; Aug. 9; v. 289; p. 377.
Golf-clubs. Jordan Marsh Company. No. 148,027; Aug. 9; v. 289; p. 403.
Golf-putters. Kraeuter & Co. No. 146,263; Aug. 9; v. 289; p. 395.
Grease stock. Philip Carey Manufacturing Company. No. 145,318; Aug. 9; v. 289; p. 393.
Hair, Compound for promoting the growth of the. J. C. Rudd. No. 129,123; Aug. 9; v. 289; p. 376.
Hair-dyes. La Mira Chemical Co. No. 146,379; Aug. 9; v. 289; p. 396.
Hair-grower, pressing-oil, &c. E. B. Jackson. No. 136,562; Aug. 9; v. 289; p. 380.
Hair-nets. Western Bottle Mfg. Co. No. 144,887; Aug. 9; v. 289; p. 389.
Hairpins. E. B. Dewey. No. 148,132; Aug. 9; v. 289; p. 403.

Hairpins and combs. T. W. Saul. No. 147,472; Aug. 9; v. 289; p. 402.
Hair-restoratives. C. Damschinsky. No. 144,966; Aug. 9; v. 289; p. 389.
Hams, bacon, and lard. Patrick-Young Co. No. 136,952; Aug. 9; v. 289; p. 380.
Hats. Chicago Mercantile Company. No. 143,635; Aug. 9; v. 289; p. 387.
Healing preparation for catarrh, hay-fever, &c. H. Solomon. No. 145,536; Aug. 9; v. 289; p. 394.
Heaters, Oil-. American Oil Burner Company. No. 149,164; Aug. 9; v. 289; p. 406.
Hoof-pads. Federal Rubber Company. No. 138,713; Aug. 9; v. 289; p. 381.
Hosiery. Berks Knitting Company. No. 146,791; Aug. 9; v. 289; p. 400.
Hosiery. Schneider, Battinus & Simon. No. 146,597; Aug. 9; v. 289; p. 398.
Hosiery, Ladies' and men's. Hoover Hosiery Company. No. 146,761; Aug. 9; v. 289; p. 400.
Hosiery, underwear, sweaters, &c. Myers Dry Goods Co. No. 140,130; Aug. 9; v. 289; p. 382.
Insect-powder. Lyon Botanical Co. No. 146,442; Aug. 9; v. 289; p. 396.
Knitted bloomers, vests, and union-suits. L. Bing. No. 146,684; Aug. 9; v. 289; p. 399.
Leather, Manufactured. E. B. Cassatt. No. 131,465; Aug. 9; v. 289; p. 377.
Liniment. J. W. Mitchell. No. 139,623; Aug. 9; v. 289; p. 382.
Lotion, Skin-. Marshall Field & Company. No. 146,540; Aug. 9; v. 289; p. 397.
Mackinaws and overcoats. Spokane Dry Goods Company. No. 146,698; Aug. 9; v. 289; p. 398.
Magazine, House. Coleman Lamp Company. No. 148,214; Aug. 9; v. 289; p. 404.
Magazine, Monthly. International Magazine Company. No. 148,278; Aug. 9; v. 289; p. 404.
Magazine, Monthly. The Torbell Company. No. 147,693; Aug. 9; v. 289; p. 402.
Magazine or house organ. H-O Cereal Company. No. 147,067; Aug. 9; v. 289; p. 402.
Magazines and pamphlets. Rose and Company. No. 146,592; Aug. 9; v. 289; p. 398.
Magazines, Monthly. E. R. Allured. No. 148,687; Aug. 9; v. 289; p. 404.
Mats, Leather floor-. F. B. Helies. No. 147,349; Aug. 9; v. 289; p. 402.
Medicinal preparation for tonsillitis, sore throat, &c., L. L. Hoback. No. 137,411; Aug. 9; v. 289; p. 381.
Medicinal preparation for treatment of biliousness and constipation. H. C. Wagner. No. 142,373; Aug. 9; v. 289; p. 384.
Medicine for eyes. V. Panicucci. No. 144,152; Aug. 9; v. 289; p. 388.
Medicine for influenza, colds, cholera, pneumonia. L. Kubanek. No. 143,694; Aug. 9; v. 289; p. 387.
Metal buildings and metal-building sections. International Housing Corporation. No. 148,073; Aug. 9; v. 289; p. 403.
Milk, Unsweetened evaporated. American Milk Products Corporation. No. 147,390; Aug. 9; v. 289; p. 402.
Milk, Unsweetened evaporated. Nestle's Food Company. No. 143,183; Aug. 9; v. 289; p. 385.
Mouth-wash, Antiseptic. Steroline Company. No. 129,810; Aug. 9; v. 289; p. 377.
Mouth-wash and antiseptic, Liquid. H. L. Asselin. No. 142,312; Aug. 9; v. 289; p. 384.
Muslin, sheets, pillow-cases, Bleached. Cooper, Coate & Casey Dry Goods Co. No. 148,711; Aug. 9; v. 289; p. 405.
Muslin, sheets, pillow-cases, Bleached. Cooper, Coate & Casey Dry Goods Co. Nos. 148,713–14; Aug. 9; v. 289; p. 405.
Neckties. E. G. Hagedorn. No. 145,624; Aug. 9; v. 289; p. 394.
Oil, cold-cream, witch-hazel, &c., Cod-liver. International Drug Company. No. 131,173; Aug. 9; v. 289; p. 377.
Oil compound used in the baking of food products. Bakers Products Company. No. 118,505; Aug. 9; v. 289; p. 375.
Oil, cup-greases, &c., Lubricating motor-. J. J. South. No. 125,862; Aug. 9; v. 289; p. 376.
Oil, Lubricating-. Automotive Lubricant Company. No. 148,045; Aug. 9; v. 289; p. 403.
Oil, Lubricating-. E. K. Lincoln. No. 144,817; Aug. 9; v. 289; p. 389.
Oil, Lubricating-. Moon-Shine Manufacturing Company. No. 148,946; Aug. 9; v. 289; p. 405.
Oil, Petroleum-. Standard Oil Company. No. 147,214; Aug. 9; v. 289; p. 401.
Oils and greases, Lubricating. Corning International Corporation. No. 136,873; Aug. 9; v. 289; p. 380.
Oils and greases, Lubricating. Lubricants Company. No. 149,088; Aug. 9; v. 289; p. 406.
Oils, greases, candles, &c. Atlantic Refining Company. No. 148,690; Aug. 9; v. 289; p. 404.
Oils, Lubricating-. Radium Oil Company. No. 148,348; Aug. 9; v. 289; p. 404.
Oils, Lubricating-. Sun Company. No. 147,850; Aug. 9; v. 289; p. 403.
Overalls, cover-alls, trousers, palm beach suits. Kahn Manufacturing Company. No. 143,499; Aug. 9; v. 289; p. 386.
Perfumes. R. Bernardo. No. 147,275; Aug. 9; v. 289; p. 401.
Perfumes, toilet waters, liquid and solid brilliantines, &c. Lé Benart Import Co. No. 145,276; Aug. 9; v. 289; p. 392.
Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. Nos. 145,185–6; Aug. 9; v. 289; pp. 390–1.
Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. Nos. 145,188–9; Aug. 9; v. 289; p. 391.
Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. No. 145,192; Aug. 9; v. 289; p. 32.
Perfumes, toilet waters, &c. M. M. R. Vve. Grenoville. No. 145,194; Aug. 9; v. 289; p. 392.
Petroleum jelly. Puritan Drug Mfg. Co. No. 146,648; Aug. 9; v. 289; p. 399.
Petroleum products. Texas Company. No. 131,050; Aug. 9; v. 289; p. 377.
Piston-rings. General Utility Company. No. 149,224; Aug. 9; v. 289; p. 406.
Play-wagons, and coasters for children. H. C. White Company. No. 146,101; Aug. 9; v. 289; p. 395.
Pliers. C. E. Swihart. No. 145,419; Aug. 9; v. 289; p. 393.
Plurigrandular formulas for treatment of amenorrhea, &c. H. R. Harrower. No. 145,212; Aug. 9; v. 289; p. 392.
Pluriglandular formulas for treatment of asthenia, &c. H. R. Harrower. No. 145,213; Aug. 9; v. 289; p. 392.
Polishing-cloths for gold, silver, and all precious metals. L. G. Pearson Corporation. No. 147,847; Aug. 9; v. 289; p. 403.
Powder and mouth-lotion, Tooth-. P. M. Wenzel. No. 121,612; Aug. 9; v. 289; p. 376.
Powder and rouge, Compact-. F. R. Arnold & Co. No. 146,420; Aug. 9; v. 289; p. 396.
Powder, Face-. F. R. Arnold & Co. No. 146,419; Aug. 9; v. 289; p. 396.
Powder, Face-. Tremonte Co. No. 142,430; Aug. 9; v. 289; p. 384.
Preparation for catarrh, &c. C. M. Shipman. No. 142,892; Aug. 9; v. 289; p. 385.
Preparation for increasing the brilliancy and removing the yellowness from white or gray hair. Harriet Hubbard Ayer. No. 146,353; Aug. 9; v. 289; p. 395.
Preparation for relief of pain. B. Accoata, Jr. No. 146,423; Aug. 9; v. 289; p. 396.
Preparation for treatment of colds, croup, whooping-cough, &c. A. S. Whitfield. No. 146,607; Aug. 9; v. 289; p. 399.
Printed and engraved matter. W. F. Roberts Company. No. 149,559; Aug. 9; v. 289; p. 406.
Publication, Monthly periodical. Farm Publishing Company. No. 147,773; Aug. 9; v. 289; p. 403.
Publication, Weekly. Cole Publishing Company. No. 148,928; Aug. 9; v. 289; p. 405.
Publications. Malone & Hyde. No. 148,500; Aug. 9; v. 289; p. 404.
Publications. H. E. Millikin. No. 124,660; Aug. 9; v. 289; p. 376.
Remedy for stomach disorders. Stom-A-Lax Medicine Co. No. 118,356; Aug. 9; v. 289; p. 375.
Repair kits, Portable. American Automobile Accessories Company. No. 120,272; Aug. 9; v. 289; p. 376.
Rubber automobile tires and tubes. Automobile Owners' Tire Corporation. No. 141,150; Aug. 9; v. 289; p. 283.
Rubber tire and tube patches, &c., Sheet-. J. W. Freedly. No. 146,008; Aug. 9; v. 289; p. 395.
Rugs, Grass. S. L. Stroud. No. 147,576; Aug. 9; v. 289; p. 402.
Salve. Puritan Drug Mfg. Co. No. 146,649; Aug. 9; v. 289; p. 399.
Salve applied externally as a treatment for rheumatism, sprains, colds, &c. John Novak Company. No. 144,036; Aug. 9; v. 289; p. 387.
Salve for boils and carbuncles. J. H. Brodhead. No. 132,078; Aug. 9; v. 289; p. 378.
Salve for cuts, wounds, and bruises, and a general medicinal tonic. J. Sagan. No. 144,054; Aug. 9; v. 289; p. 387.
Salve for sore throats, pleurisy, &c. P. Hohl. No. 145,828; Aug. 9; v. 289; p. 394.
Salve for treatment of cancers and cancerous sores. A. L. Beall. No. 132,228; Aug. 9; v. 289; p. 378.
Salve for wounds and sores. J. Buzinski. No. 143,678; Aug. 9; v. 289; p. 387.
Sateens, percalines, taffetas, piece goods, and print cloths. J. W. Goddard & Sons. No. 142,388; Aug. 9; v. 289; p. 384.
Saw frames and blades, hammers, hatchets, &c., Hack-. Consolidated Tool Works. No. 134,933; Aug. 9; v. 289; p. 379.
Scissors, shears, pocket-knives, and razors. G. M. Mayer. No. 141,238; Aug. 9; v. 289; p. 383.
Serge in the piece, Cotton. Pacific Mills. No. 142,650; Aug. 9; v. 289; p. 384.
Serum for treatment of tuberculosis. A. del Garcia. No. 145,892; Aug. 9; v. 289; p. 394.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Shades of glazed fabric. Eastern Art Shop. No. 145,438; Aug. 9; v. 289; p. 393.
Shirts, Dress, negligée, and work. L. Slifin. No. 143,845; Aug. 9; v. 289; p. 387.
Shirts, Dress, negligée, and work. Rainbow Shirt Corporation. No. 145,754; Aug. 9; v. 289; p. 394.
Shoes. B. F. Reynolds. No. 144,590; Aug. 9; v. 289; p. 388.
Silk, &c., piece goods. Nonatuck Silk Company. No. 113,130; Aug. 9; v. 289; p. 375.
Silk piece goods. Eastern District Piece Dye Works. No. 134,014; Aug. 9; v. 289; p. 379.
Silk piece goods. H. R. Mallinson & Co., Inc. No. 144,534; Aug. 9; v. 289; p. 388.
Skin-astringent antiseptic oil, depilatories, &c. G. S. Kolar Laboratories. No. 146,564; Aug. 9; v. 289; p. 397.
Soap. Swift & Company. No. 134,731; Aug. 9; v. 289; p. 379.
Soap cream. National Drug Stores Corp. No. 148,752; Aug. 9; v. 289; p. 405.
Soap in paste form. J. F. Dobbs. No. 143,262; Aug. 9; v. 289; p. 386.
Soap, polish, washing-tablets, &c. Larkin Co. No. 146,490; Aug. 9; v. 289; p. 396.
Soaps, Shaving-. M. M. R. Vve. Grenoville. No. 145,187; Aug. 9; v. 289; p. 391.
Soap, Toilet. Graham Bros. Soap Co. No. 144,141; Aug. 9; v. 289; p. 388.
Soldering paste. Snappy Soldering Paste Co. No. 145,132; Aug. 9; v. 289; p. 390.
Suspenders and hose-supporters. Nu-Way Strech Suspender Co. No. 146,575; Aug. 9; v. 289; p. 398.
Tablets, Laxative. McCrillius Medical Co. No. 145,522; Aug. 9; v. 289; p. 393.
Tablets, Medicamental. H. Rothstein. No. 145,042; Aug. 9; v. 289; p. 390.
Teeth-crowns. Lincoln Dental Mfg. Co. No. 138,862; Aug. 9; v. 289; p. 381.
Textile fabrics in the piece. Penn Textile Company. No. 137,386; Aug. 9; v. 289; p. 380.
Tire casing and tubes, Automobile-. Corona Cord Tire Company. No. 139,148; Aug. 9; v. 289; p. 381.
Tires and inner tubes, Rubber and fabric outer casings for pneumatic automobile-. Victor Rubber Company, The. No. 147,809; Aug. 9; v. 289; p. 403.
Tobacco, snuff, cigars, cigarettes. L. Przedecki. No. 135,615; Aug. 9; v. 289; p. 379.
Toilet preparations. N. A. Gleim. No. 142,830; Aug. 9; v. 289; p. 385.
Toilet preparations. Marshall Field & Company. No. 146,539; Aug. 9; v. 289; p. 397.
Tonic alterative. F. C. Hazelrigg. No. 145,508; Aug. 9; v. 289; p. 393.
Tonic nutritive and alterative. Parke, Davis & Company. No. 147,123; Aug. 9; v. 289; p. 401.
Tonic, System-. Dr. Peter Fahrney & Sons Company. No. 142,614; Aug. 9; v. 289; p. 384.
Tonics, General. F. A. Weinstein. No. 146,610; Aug. 9; v. 289; p. 399.
Torch, Self-blowing. E. Folgman. No. 149,896; Aug. 9; v. 289; p. 406.
Toy carpet-sweeper. Bissell Carpet Sweeper Co. Nos. 147,335–6; Aug. 9; v. 289; p. 401.
Toy dogs, Stuffed. Davis and Voetsch. Nos. 149,070–1; Aug. 9; v. 289; p. 406.
Toy music-boxes. Lang & Pressprich. No. 149,763; Aug. 9; v. 289; p. 406.
Toy vacuum-cleaner and bags. Kaye Manufacturing Company. No. 144,920; Aug. 9; v. 289; p. 389.
Tractors, Gasolene industrial. Towmotor Company. No. 142,180; Aug. 9; v. 289; p. 384.
Tree-wounds, Chemical composition of matter for dressing. Davey Tree Expert Company. No. 141,419; Aug. 9; v. 289; p. 383.
Underwear. Tailored Silk Undergarment Co. No. 142,115; Aug. 9; v. 289; p. 383.
Underwear, Wool-. Medlicott Company. No. 146,643; Aug. 9; v. 289; p. 399.
Upholstery and drapery trimmings. E. Maag. No. 143,288; Aug. 9; v. 289; p. 386.
Vitamine preparations, nerve-tonics, &c. Society of Chemical Industry in Basle. Nos. 130,377–8; Aug. 9; v. 289; pp. 381–2.
Waists. Waistcraft Corporation. No. 145,538; Aug. 9; v. 289; p. 394.
Washing-tablets for fabrics. Little Servant Manufacturing Co. No. 148,807; Aug. 9; v. 289; p. 405.
Water, Artificial health mineral. D. S. Campbell. No. 133,349; Aug. 9; v. 289; p. 378.
Worsteds, woolen, &c., piece goods. Louis Walther Manufacturing Company. No. 140,534; Aug. 9; v. 289; p. 382.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 9, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

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24: R. 15,174
28: 1,387,077
29: 1,387,148
32: 1,386,927
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154— 1: 1,386,896
2: 1,386,722
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41: 1,386,676
44: 1,387,348
45.9: 1,387,011
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53: 1,387,391
155— 7: 1,387,083
29: 1,386,612
79: 1,387,049
148: 1,387,315
170: 1,386,619
180: 1,387,160
156— 19: 1,386,715
42: 1,386,660
158— 27.4: 1,387,434
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28: 1,386,994
29: 1,386,608
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36: 1,386,846
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74: 1,387,078
99: 1,386,672
111: 1,386,630
161— 10: 1,387,357
162— 1: 1,386,953
164— 58: 1,386,940
112: 1,386,977
167— 6: 1,386,924
168— 18: 1,386,612
171— 95: 1,386,823
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171— 229: 1,387,140
252: 1,386,984
172— 36: 1,386,609
182: 1,386,885
278: 1,386,861
280: 1,387,046
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173— 262: 1,386,854
263: 1,386,634
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280: 1,386,831
330: 1,386,884
363: 1,387,252
175— 188: 1,386,714
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1,387,189
204: 1,386,898
356: 1,386,838
361: 1,386,849
362: 1,386,828
177— 7: 1,386,804
352: 1,387,399
178— 17: 1,386,725
33: 1,387,228
45: 1,387,210
52: 1,386,963
63: 1,386,679
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179— 1: 1,386,683
1,386,690
3: 1,386,748
6.5: 1,386,701
8: 1,386,749
12: 1,387,171
18: 1,386,688
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27: 1,386,696
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27.5: 1,387,180
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40: 1,387,270
1,387,271
43: 1,386,747
46: 1,386,719
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1,387,284
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58: 1,387,251
73 1,386,689
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171: 1,386,731
178: 1,386,607
185: 1,386,975
180— 9.2: 1,386,979
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16: 1,386,842
17: 1,387,208
24: 1,387,392
44: 1,386,987
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70: 1,386,874
90: 1,387,147
181— 27: 1,386,907
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183— 29: 1,387,021
184— 6: 1,387,018
1,387,248
22: 1,386,604
188— 3: 1,386,902
21: 1,387,335
88: 1,387,081
96: 1,386,879
130: 1,386,759
190— 13: 1,387,028
1,387,221
192— 55: 1,387,017
62: 1,386,867
116: 1,387,136
193— 47: R. 15,175
196— 25: 1,386,768
1,386,945
197— 134: 1,386,969
177: 1,386,636
186: 1,387,362
199— 16: 1,386,786
25: 1,386,794
200— 19: 1,387,223
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43: 1,387,361
47: 1,386,897
52: 1,386,604
59: 1,386,626
64: 1,387,419
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5: 1,387,425
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204— 29: 1,386,946
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205— 16: 1,387,109
20: 1,386,677
206— 44: 1,387,192
46: 1,387,132
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42: 1,386,726
96: 1,387,215
150: 1,387,349
211— 7: 1,387,308
8: 1,386,974
14: 1,386,878
24: 1,387,209
34: 1,386,623
36: 1,386,660
213— 59: 1,386,796
1,386,797
64: 1,386,776
1,386,795
214— 1: 1,387,253
17: 1,387,309
21: 1,386,971
24: 1,386,919
49: 1,387,036
85: 1,387,163
215— 81: 1,386,624
82: 1,386,729
95: 1,386,742
217— 8: 1,387,007
107: 1,386,949
219— 11: 1,387,023
20: 1,387,433
29: 1,387,304
32: 1,386,616
38: 1,386,912
1,387,276
39: 1,386,607
43: 1,386,705
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16: 1,386,699
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53: 1,386,619
71: 1,386,917
73: 1,387,006
221— 24: 1,387,211
60: 1,386,966
100: 1,387,421
225— 25: 1,386,646
226— 71: 1,386,810
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229— 45: 1,387,167
46: 1,387,084

230— 6: 1,386,753
18: 1,387,259
30: 1,386,792
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33: 1,387,186
231— 6: 1,387,073
234— 20: 1,386,661
39: 1,387,178
235— 59: 1,386,653
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94: 1,387,022
95: 1,387,056
137: 1,386,758
236— 4: 1,386,980
46: 1,386,696
237— 72: 1,386,596
132: 1,387,082
238— 42: 1,386,954
1,387,184
44: 1,386,718
52: 1,387,340
152: 1,386,863
198: 1,387,052
221: 1,386,847
265: 1,386,750
312: 1,386,685
324: 1,386,800
240— 7: 1,386,803
1,387,347
8.5: R. 15,176
45: 1,386,968
61: 1,387,273
62: 1,386,957
92: 1,386,962
103: 1,387,424
241— 6: 1,386,935
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242— 6: 1,387,016
20: 1,387,005
22: 1,387,141
74: 1,386,617
1,386,839
99: 1,386,918
134: 1,387,368
136: 1,387,200
140: 1,387,299
244— 2: 1,387,057
6: 1,387,247
21: 1,386,815
25: 1,386,712
1,386,713
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246— 66: 1,387,534
70: 1,387,400
74: 1,386,656
183: 1,387,233

247— 20: 1,386,877
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38: 1,386,947
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253— 69: 1,386,663
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26: 1,386,780
43: 1,387,383
81: 1,387,374
83: 1,387,338
163: 1,386,698
255— 28: 1,386,908
37: 1,386,633
67: 1,386,902
75: 1,387,082
256— 15: 1,386,670
19: 1,386,928
257— 241: 1,386,904
258— 4: 1,386,856
259— 7: 1,387,380
261— 41: 1,387,275
50: 1,387,420
262— 4: 1,386,622
263— 11: 1,387,296
49: 1,387,296
264— 16: 1,386,779
19: 1,386,925
265— 27: 1,386,662
267— 17: 1,386,782
32: 1,386,818
37: 1,387,024
44: 1,387,375
49: 1,387,041
63: 1,387,288
268— 4: 1,387,432
273— 1,386,813
274— 9: 1,386,802
38: 1,387,410
275— 9: 1,387,265
277— 37: 1,386,678
278— 95: 1,386,673
280— 33: 1,386,978
87.5: 1,387,091
156: 1,387,412
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2: 1,387,052
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17: 1,387,301
289— 5: 1,387,061
290— 11: 1,387,076
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40: 1,387,048
41: 1,386,844
292— 23: 1,387,401
73: 1,386,859
159: 1,387,332
1,387,333
198: 1,387,302
207: 1,386,971
276: 1,386,740
293— 54: 1,386,988
1,387,100
55: 1,386,807
1,386,845
1,386,864
294— 62: 1,386,929
295— 48: 1,387,308
296— 23: 1,386,943
26: 1,387,190
48: 1,387,366
56: 1,386,882
64: 1,386,976
85: 1,386,600
116: 1,387,191
145: 1,386,793
297— 3: 1,386,618
298— 11: 1,387,413
19: 1,387,423
299— 30: 1,387,352
35: 1,387,071
55: 1,387,256
66: 1,387,165
301— 6: 1,387,444
11: 1,387,372
44: 1,387,225
45: 1,387,194
63: 1,386,784
64: 1,387,179
133: 1,386,855
303— 23: 1,387,035
305— 3: 1,387,033
9: 1,386,926
1,387,086
13: 1,387,193
1,387,195
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1,387,198

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 16TH DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aarons, Henry M., New York, N. Y. Window-guard. No. 1,387,958; Aug. 16; v. 289; p. 519.

Adam, Folger, assignor to Illinois Wire & Mfg. Co., Joliet, Ill. Corncrib and the like. No. 1,388,013; Aug. 16; v. 289; p. 530.

Adams, H. Blanche. (See Gordon, G. Murl, assignor.)

Adams, Harry E., New York, N. Y. Securing means for inclosures for automobile-tops. No. 1,387,634; Aug. 16; v. 289; p. 455.

Aiguier, Harold, Kearney, N. J. Combined knife and saw. No. 1,388,014; Aug. 16; v. 289; p. 531.

Air Reduction Company. (See Metzger, Floyd J., assignor.)

Aisenberg, Jacob, Corona, N. Y. Moving sign. No. 1,387,635; Aug. 16; v. 289; p. 456.

Aktiebolaget Gyro. (See Cassel, Gunnar E., assignor.)

Albert, Alverdo S., Ione, Wash. Milk-shake-powder compound. No. 1,388,084; Aug. 16; v. 289; p. 544.

Aldeborgh, Erik H., assignor to C. E. Johansson, Inc., Poughkeepsie, N. Y. Mechanical movement. No. 1,387,825; Aug. 16; v. 289; p. 494.

Alden, George I., assignor to Norton Company, Worcester, Mass. Easy-start driving and reversing mechanism. No. 1,387,636; Aug. 16; v. 287; p. 456.

Alexander, Clive M., Port Arthur, Tex., assignor to Gulf Refining Company, Pittsburgh, Pa. Heating oil-retorts and apparatus therefor. No. 1,387,677; Aug. 16; v. 89; p. 464.

Alford, Allen, Waco, Tex. Rock-drill. No. 1,387,447; Aug. 16; v. 289; p. 417.

Allen, Charles H., Attleboro, Mass. Collar-holder. No. 1,387,878; Aug. 16; v. 289; p. 505.

Allen, Jessie L., New York, N. Y. Mop cleaner and holder. No. 1,387,580; Aug. 16; v. 289; p. 445.

Allen, S. L., & Co. (See Walz, Carl F., assignor.)

Allsteelequip Company. (See Erickson, A. F., and Shiek, assignors.)

American Brake Company. (See Brown, Thomas R., assignor.)

Amesbury Brass & Foundry Company. (See Miller, William, assignor.)

Anagnostopulos, Theodore D., Opelousas, assignor of one-half to J. M. Fox, New Orleans, La. Box-lid holder. No. 1,388,147; Aug. 16; v. 289; p. 556.

Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)

Anderson, Charles W., Brooklyn, N. Y. Control means for drive mechanism. No. 1,387,445; Aug. 16; v. 289; p. 417.

Anderson, Gilbert V., Philadelphia, Pa. Gun mounts and control. No. 1,387,678; Aug. 16; v. 289; p. 464.

Anderson, Gustaf M., assignor to Associated Manufacturers Company, Waterloo, Iowa. Oiling system. No. 1,387,637; Aug. 16; v. 289; p. 456.

Anti-Corrosion Engineering Company. (See Wilson, John J., assignor.)

Appleton, Jamie F., Keokuk, assignor to Iowa Lock and Manufacturing Company, Burlington, Iowa. Combination-lock. No. 1,387,750; Aug. 16; v. 289; p. 479.

Arkansas Short Leaf Lumber Company. (See Walker, William H., assignor.)

Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,387,959; Aug. 16; v. 289; p. 520.

Armstrong, Frank H., Auburn, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,387,960; Aug. 16; v. 289; p. 520.

Arneth, John F., Washington, D. C. Animal-trap. No. 1,387,826; Aug. 16; v. 289; p. 494.

Asakawa, Seiji, Tokyo-Fu, and K. Nosawa, Chiba-Ken, Japan. Ship's-bottom paint. No. 1,387,448; Aug. 16; v. 289; p. 417.

Ashcroft, Edgar A., London, England. Recovering values from ores. No. 1,388,086; Aug. 16; v. 289; p. 544.

Associated Manufacturers Company. (See Anderson, Gustaf M., assignor.)

Astier, Antoine J., Colombes, France. Valve for pipes for water and other fluids. No. 1,387,446; Aug. 16; v. 289; p. 417.

Atcheson, Robert H., Providence, R. I., assignor to Ibex Rubber Corporation, Jersey City, N. J. Method of and apparatus for vulcanizing. No. 1,388,138; Aug. 16; v. 289; p. 555.

Atlas Doll & Toy Co. (See Gerberg, M., Hirsch, and Morgan, assignors.)

Ault, Eugene B., Calallen, Tex. Bee-shipping cage. No. 1,388,085; Aug. 16; v. 289; p. 544.

Autosales Corporation. (See Bertram, Louis, assignor.)

Axline, Clarence E., Sr., Bryant, Ill. Gate-latch. No. 1,387,961; Aug. 16; v. 289; p. 520.

Bach, Charles H., Laconia, N. H. Pump. No. 1,388,087; Aug. 16; v. 289; p. 545.

Bacher, Rollin L., Cleveland Heights, assignor to The United States Air Compressor Company, Cleveland, Ohio. Pressure-release. No. 1,387,679; Aug. 16; v. 289; p. 464.

Bacon Heater Manufacturing Company, The. (See Bacon, Joseph H., assignor.)

Bacon, Joseph H., Lakewood, assignor to The Bacon Heater Manufacturing Company, Cleveland, Ohio. Gas-burner-attaching means. No. 1,387,827; Aug. 16; v. 289; p. 495.

Baerwaldt, Erwin W., assignor to Farmers Barn Equipment Co., Stevens Point, Wis. Hinge. No. 1,387,962; Aug. 16; v. 289; p. 520.

Bajett, Louis, New York, N. Y. Cloth-sponging machine. No. 1,387,449; Aug. 16; v. 289; p. 417.

Baker, Burton W., Silesia, Mont. Harvester attachment. No. 1,387,680; Aug. 16; v. 289; p. 464.

Baker, Thomas F. (See Rutherford, J., and Baker.)

Baltzley, Louis E., Glen Ridge, N. J. Binder. No. 1,388,140; Aug. 16; v. 289; p. 555.

Banks, Mack, Chicago, Ill. Marble-gun. No. 1,388,015; Aug. 16; v. 289; p. 531.

Baranski, Julian, Trenton, N. J. Shade and curtain bracket. No. 1,387,752; Aug. 16; v. 289; p. 479.

Barnes, Edwin, Sheffield, England. Spectacles. No. 1,387,753; Aug. 16; v. 289; p. 480.

Barnholdt, Harold L., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Winding structure for multispeed induction-motors. No. 1,387,458; Aug. 16; v. 289; p. 419.

Bartlett, Hayward Company, The. (See Tast, Gustave, assignor.) (Reissue.)

Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)

Bates, John R., Chicago, Ill. Hydrocarbon-gas burner. No. 1,387,459; Aug. 16; v. 289; p. 419.

Bates, William P., Dallas, Tex. Fountain-brush. No. 1,387,754; Aug. 16; v. 289; p. 480.

Bauder, Victor S., Fort Plain, N. Y. Silo. No. 1,387,751; Aug. 16; v. 289; p. 479.

Bauer, Walter, assignor to Firm of Rohm & Haas, Darmstadt, Hessia, Germany. Manufacture of alkylene cyanhydrins. No. 1,388,016; Aug. 16; v. 289; p. 531.

Baumgartner, Charles B., assignor to National Manufacturing Company, Manchester, Iowa. Latching means for flexible gates. No. 1,388,017; Aug. 16; v. 289; p. 531.

Beam, Jacob B., Punxsutawney, Pa. Automobile-radiator. No. 1,387,755; Aug. 16; v. 289; p. 480.

Beckett, John R., Somerville, Mass. Indexing device. No. 1,387,756; Aug. 16; v. 289; p. 480.

Bedford, L. E., *et al.* (See Gruss, George H., assignor.)

Beebe, Stanley J., Union, N. Y. Upper-leather-cutting machine. No. 1,387,828; Aug. 16; v. 289; p. 495.

Beets, Nicolaas, New York, N. Y., assignor of one-half to W. J. Wilkinson. Block-action for repeating arms. No. 1,387,460; Aug. 16; v. 289; p. 420.

Bellay, John, Belleville, N. J. Automobile-jack. No. 1,387,581; Aug. 16; v. 289; p. 445.

Beller, Albert E., Ogden, Utah. Direction-indicating signal for automobiles. No. 1,387,916; Aug. 16; v. 289; p. 512.

Benedict, Hershel A., East Orange, and E. M. Moller, Jersey City, N. J. Underhang framework or chassis construction. No. 1,387,757; Aug. 16; v. 289; p. 481.

Bennett, Carl W., Duboistown, Pa. Attachment for umbrellas. No. 1,387,758; Aug. 16; v. 289; p. 481.

Bergamini, Antonio, North Haven, Conn. Hammer. No. 1,387,582; Aug. 16; v. 289; p. 445.

Bersey, Alfred E., Dobwalls, Liskeard, England. Box or carrier for live birds. No. 1,387,759; Aug. 16; v. 289; p. 481.

Bertram, Louis, Long Island City, assignor to Autosales Corporation, New York, N. Y. Coin-testing mechanism for coin-controlled machines. No. 1,387,681; Aug. 16; v. 289; p. 465.

Bethke, John P., and R. H. Stearns, assignors to Magnetic Manufacturing Co., Milwaukee, Wis. Magnetic pulley. No. 1,387,879; Aug. 16; v. 289; p. 505.

Bethlehem Steel Company. (See Land, John, assignor.)

Beyer, Jacob J., McKees Rocks, Pa. Device for bending chain-links. No. 1,387,880; Aug. 16; v. 289; p. 505.

Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Making cup and cone members for roller-bearings. No. 1,387,638; Aug. 16; v. 289; p. 457.

Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Roller-bearing cage. No. 1,387,639; Aug. 16; v. 289; p. 495.

Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Assembling roll-holding cages. No. 1,387,830; Aug. 16; v. 289; p. 495.

Bingham, Jeremiah, assignor to The Bock Bearing Company, Toledo, Ohio. Machine for accurately alining and closing roll-holding cages for roller-bearings. No. 1,387,881; Aug. 16; v. 289; p. 505.

Birch, Charles H., Chicago, Ill. Can-capping or disk-feeding machine. No. 1,387,461; Aug. 16; v. 289; p. 420.

Bishop, James T. (See Vales, E. J., and Bishop.)

Bjorge, Arne K. H., St. Paul, Minn. Electric third rail. No. 1,388,088; Aug. 16; v. 289; p. 545.

Blanchard, George N., assignor to Colmar Burner Co. Inc., San Francisco, Calif. Automatic fuel control. No. 1,387,583; Aug. 16; v. 289; p. 445.

Blechowick, Frank S. (See Erickson, Ingvald E., assignor.)

Bock Bearing Company, The. (See Bingham, Jeremiah, assignor.)

Bolender, Joel D., and E. R. Creamer, assignors to The George R. Carter Company, Connersville, Ind. Molding for upholstering. No. 1,387,639; Aug. 16; v. 289; p. 457.

Borchert, Charles A., and M. G. O'Neil, Beaver, Pa., assignors to Protected Seat Valve Company, Pittsburgh, Pa. Valve. No. 1,387,831; Aug. 16; v. 289; p. 495.

Bosc, Louis P., Paris, France. Rotary duplicator. No. 1,388,139; Aug. 16; v. 289; p. 555.

Bourn, Stephen W., Providence, R. I. Applying a coating fluid. No. 1,387,963; Aug. 16; v. 289; p. 520.

Bourn, Stephen W., Providence, R. I. Surface-coating machine. No. 1,387,964; Aug. 16; v. 289; p. 521.

Bowe, David W., Detroit, Mich. Clamp. No. 1,387,917; Aug. 16; v. 289; p. 512.

Bowen, Edgar W., Detroit, and R. Turner, Highland Park, assignors of D. M. Ferry & Company, Detroit, Mich. Display apparatus. No. 1,387,965; Aug. 16; v. 289; p. 521.

Bowman, Edward, Dubuque, Iowa. Adjustable ventilator-hood for automobiles. No. 1,387,584; Aug. 16; v. 289; p. 445.

Boyce, Ruben H., Glasco, Kans. Box-holder. No. 1,388,089; Aug. 16; v. 289; p. 545.

Boyd, Sanford S., Laurens, S. C. Underwear. No. 1,387,585; Aug. 16; v. 289; p. 446.

Bradford, Louise L., Allston, Mass. Bust-pad holder. No. 1,387,586; Aug. 16; v. 289; p. 446.

Bradley, Charles, Denver, Colo. Railway-metal-tie appliance. No. 1,387,462; Aug. 16; v. 289; p. 420.

Brady, Enoch J., Burkburnett, Tex. Water-motor. No. 1,388,018; Aug. 16; v. 289; p. 531.

Brainard, George C., East Cleveland, assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Producing and uniting heads to barrels. No. 1,387,640; Aug. 16; v. 289; p. 457.

Brassler, George F., Whitestone, N. Y. Milk-bottle lock and retainer. No. 1,388,090; Aug. 16; v. 289; p. 54.

Breitholtz, Sigrid, New York, N. Y. Composition of matter. No. 1,388,019; Aug. 16; v. 289; p. 531.

Brenahan, Thomas M., Washington, D. C. Automobile-window attachment. No. 1,388,091; Aug. 16; v. 289; p. 546.

Bridges, Robert L., Lake Charles, La. Rotary automatic valve-controlling mechanism. No. 1,387,760; Aug. 16; v. 289; p. 481.

Brockway, Don M. and F. R., Los Angeles, Calif. Transformable automobile-tractor. No. 1,388,148; Aug. 16; v. 289; p. 556.

Brockway, Foss R. (See Brockway, Don M. and F. R.)

Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Superheater-regulator. No. 1,387,463; Aug. 16; v. 289; p. 420.

Broido, Benjamin, assignor to The Superheater Company, New York, N. Y. Boiler with superheaters. No. 1,387,464; Aug. 16; v. 289; p. 420.

Bronnert, Emile, Mulhausen, France. Manufacture of artificial silk. No. 1,387,882; Aug. 16; v. 289; p. 505.

Brown, Daniel J., Northport, Nebr. Appliance for mending broken vehicle-wheels. No. 1,387,918; Aug. 16; v. 289; p. 512.

Brown, Thomas R., Pittsburgh, Pa., assignor to American Brake Company, St. Louis, Mo. Automatic slack-adjuster. No. 1,388,020; Aug. 16; v. 289; p. 531.

Brown, Wilbur L., Santa Ana, Calif. Lubricant-distributer for internal-combustion engines. No. 1,387,587; Aug. 16; v. 289; p. 446.

Brown, William H., et al. (See Spiker, Harry E., assignor.)

Browning, George, assignor to Lee Razor Manufacturing Company, Chicago, Ill. Safety-razor. No. 1,387,465; Aug. 16; v. 289; p. 421.

Brumann, Otto F., Leysin-Village, Switzerland. Means for intermixing fluids. No. 1,387,832; Aug. 16; v. 289; p. 496.

Buchsbaum, Samuel, Chicago, Ill. Belt-buckle. No. 1,387,919; Aug. 16; v. 289; p. 512.

Budd, Edward G., assignor to Budd Wheel Corporation, Philadelphia, Pa. Wire-spoked wheel. No. 1,388,021; Aug. 16; v. 289; p. 531.

Budd, Edward G., assignor to Budd Wheel Corporation, Philadelphia, Pa. Hub structure of detachable wire-spoked wheels. No. 1,388,022; Aug. 16; v. 289; p. 532.

Budd Wheel Corporation. (See Budd, Edward G., assignor.)

Burton, Charles S., Oak Park, Ill. Container for music-rolls and the like. No. 1,388,092; Aug. 16; v. 289; p. 546.

Burton, Charles S., Oak Park, Ill. Container for music-rolls and the like. No. 1,388,093; Aug. 16; v. 289; p. 546.

Burton, Stafford A. (See Burton, Verne S. and S. A.)

Burton, Verne S., Bridgeburg, Ontario, Canada, and S. A. Burton, Detroit, Mich. Automatic brake control for trains. No. 1,388,141; Aug. 16; v. 289; p. 555.

Busch-Sulzer Bros.-Diesel Engine Company. (See Rotter, Max, assignor.)

Bush, David W., Jr., Bartley, Nebr. Combined setting and brooding coop. No. 1,387,682; Aug. 16; v. 289; p. 495.

Busse, Emil F., Jerome, Ariz. Hammer. No. 1,387,920; Aug. 16; v. 289; p. 512.

Bussel, Herman, El Paso, Tex. Metal-working device. No. 1,387,683; Aug. 16; v. 289; p. 495.

Butcher, James M., assignor to Sentinel Alarm Co., Chicago, Ill. Mounting for burglar-alarm. No. 1,387,966; Aug. 16; v. 289; p. 521.

Butler, Frank, Los Angeles, Calif. Level-holder. No. 1,388,023; Aug. 16; v. 289; p. 532.

Buttigieg, John, Rockford, Ill. Jewelry-case. No. 1,388,094; Aug. 16; v. 289; p. 546.

Caldwell, Henry C., Buffalo, N. Y. Gas-burner. No. 1,387,450; Aug. 16; v. 289; p. 416.

Camm, John A. (See Shields, F. S., and Camm.)

Campbell, Robert H., Upper Edmonton, England. Capsule or container for gases or liquids under pressure. No. 1,387,451; Aug. 16; v. 289; p. 418.

Campbell, Sterling H., St. Louis, Mo. Attachment for pin-lifters. No. 1,387,684; Aug. 16; v. 289; p. 465.

Campbell, Sterling H., St. Louis, Mo. Coupling-release rigging. No. 1,387,685; Aug. 16; v. 289; p. 465.

Canady, Buel H., Winslow, Ariz. Removable bearing-plate. No. 1,387,586; Aug. 16; v. 289; p. 446.

Candee, Andrew H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,387,466; Aug. 16; v. 289; p. 421.

Canelles, John, Superior, Wis. Wrench. No. 1,387,761; Aug. 16; v. 289; p. 481.

Cannon, Charles A., and H. E. Scott, McNab, Ark. Fire-screen. No. 1,388,095; Aug. 16; v. 289; p. 546.

Caponic, Arthur C., Havre de Grace, Md. Figure wheeled toy. No. 1,388,096; Aug. 16; v. 289; p. 546.

Capsoni, Carlo, Alessandria, Italy. Apparatus for producing oscillatory movements. No. 1,388,097; Aug. 16; v. 289; p. 547.

Carlson, Erick V., Chicago, Ill. Automatic violin-player. No. 1,387,467; Aug. 16; v. 289; p. 421.

Carrier Engineering Corporation. (See Harrison, Burt S., assignor.)

Carroll, Thomas, and J. C. Lockyer, assignors to The National Cash Register Company, Dayton, Ohio, (Incorporated in 1906.) Perforating mechanism for cash-registers. No. 1,387,762; Aug. 16; v. 289; p. 482.

Carter, George R., Co., The. (See Bolender, J. D., and Creamer, assignors.)

Casgrain, Louis A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for lasting rubber-sole footwear. No. 1,387,763; Aug. 16; v. 289; p. 482.

Cassel, Gunnar E., assignor to Aktiebolaget Gyro, Stockholm, Sweden. Breast-drill. No. 1,387,921; Aug. 16; v. 289; p. 513.

Catucci, Pliny, Newark, N. J., assignor, by mesne assignments, to Harriman National Bank of the City of New York, trustee. Spring-motor. No. 1,387,589; Aug. 16; v. 289; p. 447.

Chambless, James, assignor of one-half to A. Russell, Jasper, Ala. Steam-engine valve and reversing means therefor. No. 1,387,468; Aug. 16; v. 289; p. 421.

Chapin, John J., assignor, by mesne assignments, to Fil-Rac Screen Corporation, Rochester, N. Y. Rolling window-screen. No. 1,387,452; Aug. 16; v. 289; p. 418.

Chapman, John W., et al. (See Spiker, Harry E., assignor.)

Chappell, Walter H. (See Lankford, W. J., and Chappell.)

Chase Companies, The. (See Recker, Adolph C., assignor.)

Chase, Philip H., East Orange, N. J. Electric switch. No. 1,387,686; Aug. 16; v. 289; p. 466.

Chaussinand, Paul L. F. H., St. Dizier, France. Massaging apparatus. No. 1,387,687; Aug. 16; v. 289; p. 466.

Cheney, Forest, assignor to Cheney Talking Machine Co., Chicago, Ill. Lever-counterbalance. No. 1,387,858; Aug. 16; v. 289; p. 496.

Cheney Talking Machine Co. (See Cheney, Forest, assignor.)

Chicago Railway Equipment Company. (See Hawkins, Arthur W., assignor.)

Chicago Railway Equipment Company. (See Williams, Charles H., assignor.)

Chicoine, Louis P., Vaudreuil, Quebec, Canada. Track-liner bar. No. 1,387,688; Aug. 16; v. 289; p. 466.

Chicoine, Louis P., Vaudreuil, Quebec, Canada. Track-spike. No. 1,387,689; Aug. 16; v. 289; p. 466.

Chipperfield, Walter, Hornchurch, England, assignor to A. B. Dick Company, Chicago, Ill. Inking device for duplicating-machines. No. 1,387,764; Aug. 16; v. 289; p. 482.

Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for suppressing harmonics. No. 1,387,469; Aug. 16; v. 289; p. 422.

Citizens National Bank, The. (See Karge, Maxwell R., assignor.)

Clairemont, Victor and C. T. Lehmann, San Francisco, Calif. Egg-preservative. No. 1,388,024; Aug. 16; v. 289; p. 532.

Clark & Mesker Milling Machine Company, The. (See Shields, F. S., and Camm, assignors.)

Clark, James R., Sadler, Tex. Hoe. No. 1,387,863; Aug. 16; v. 289; p. 505.

Clarke, Edward W., Kingston-upon-Hull, England. Support for boiler-flues. No. 1,388,025; Aug. 16; v. 289; p. 532.

Clarkson, Charles S., Toledo, Ohio. Cooling apparatus. No. 1,387,834; Aug. 16; v. 289; p. 496.

Cobb, Ernest B., Jersey City, assignor to Standard Oil Company (of New Jersey), Bayonne, N. J. Purifying hydrocarbon oils. No. 1,387,835; Aug. 16; v. 289; p. 496.

Cole, Hugh A., assignor to Cole Manufacturing Company, Chicago, Ill. Stove. No. 1,387,453; Aug. 16; v. 289; p. 418.

Cole Manufacturing Company. (See Cole, Hugh A., assignor.)

Coleman, William H., Jackson, Mich. Footrest for registers. No. 1,387,454; Aug. 16; v. 289; p. 418.

Collier, William D., Marco, Fla. Clam-digger. No. 1,387,590; Aug. 16; v. 289; p. 447.

Colmar Burner Co. (See Blanchard, George N., assignor.)

Colonna, Rudolph B., Hazleton, Pa. Display-stand. No. 1,387,765; Aug. 16; v. 289; p. 482.

Colt, Samuel S., Orange, N. J. Holding or tying means for molding apparatus. No. 1,387,766; Aug. 16; v. 289; p. 483.

Columbia Railway Signal Company. (See Schooley, E. A., and Wilson, assignors.)

Conner, Joseph A., Santa Clara, Calif. Nut-huller. No. 1,388,026; Aug. 16; v. 289; p. 532.

Connolly, Patrick, New York, N. Y. Snow-melting apparatus. No. 1,388,027; Aug. 16; v. 289; p. 533.

Connor, George J., Toronto, Ontario, Canada. Stocking. No. 1,388,098; Aug. 16; v. 289; p. 547.

Cook, Joel R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Arrangement of connections for dynamo-electric machines. No. 1,387,470; Aug. 16; v. 289; p. 422.

Cook, Ulysses E., Pomona, Calif. Plow. No. 1,388,142; Aug. 16; v. 289; p. 556.

Cooper, William J., Smethwick, England. Blowpipe-burner. No. 1,387,591; Aug. 16; v. 289; p. 447.

Corona Typewriter Company. (See Armstrong, Frank H., assignor.)

Corona Typewriter Company. (See Harmon, Edwin L., assignor.)

Corona Typewriter Company. (See Petermann, Otto, assignor.)

Corsa, Dean, et al. (See Smith, Jesse R., assignor.)

Cortese, Battista, New York, N. Y. Cloth-sponging machine. No. 1,387,836; Aug. 16; v. 289; p. 496.

Cory, Chas. & Son. (See Wood, Frank W., assignor.)

Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,387,837; Aug. 16; v. 289; p. 497.

Cottrell, Edgar H., Westerly, R. I. Newspaper. No. 1,387,838; Aug. 16; v. 289; p. 497.

Coughlin, Felix J., Vermilion, Ohio. Parachute. No. 1,387,455; Aug. 16; v. 289; p. 419.

Coulson, John, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Electrolyte. No. 1,387,471; Aug. 16; v. 289; p. 422.

Coup, Charles R., McKeesport, Pa. Fly-swatter. No. 1,387,922; Aug. 16; v. 289; p. 513.

Coutts, Cornelius M., Issaquah, Wash. Shelving. No. 1,388,154; Aug. 16; v. 289; p. 557.

Cox Brass Manufacturing Company. (See Cox, William G., assignor.)

Cox, Paul F., Chicago, Ill. Addressing apparatus. No. 1,387,502; Aug. 16; v. 289; p. 447.

Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-bumper. No. 1,387,466; Aug. 16; v. 289; p. 419.

Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-bumper. No. 1,387,767; Aug. 16; v. 289; p. 483.

Cox, William H., Collegeville, Pa. Mop-cloth. No. 1,387,472; Aug. 16; v. 289; p. 422.

Corey, Jasper S., Spokane, Wash. Mechanical toy. No. 1,387,923; Aug. 16; v. 289; p. 513.

Craven, James F., Pittsburgh, Pa. Receptacle for containing and discharging semisolid and pasty substances. No. 1,387,473; Aug. 16; v. 289; p. 422.

Creamer, Edgar R. (See Bolender, J. D., and Creamer.)

Creasey, Samuel E., Sanford, Me. Convertible vehicle. No. 1,388,028; Aug. 16; v. 289; p. 533.

Crispin, Clarence G., East Berwick, Pa. Light-weight piston of skeleton construction. No. 1,387,593; Aug. 16; v. 289; p. 447.

Crocker, William G., Lisbon, N. D. Addressing attachment for typewriters. No. 1,388,099; Aug. 16; v. 289; p. 547.

Crone, Seth A., East Orange, N. J. Brake-beam. No. 1,387,768; Aug. 16; v. 289; p. 483.

Cross, Jay E., Takoma Park, Md. Apparatus for cleaning book-covers and the like. No. 1,387,684; Aug. 16; v. 289; p. 505.

Crouse-Hinds Company. (See Mantel, Florian J., assignor.)

Cummings, Andrew S., Tacoma, Wash. Combined burglar lock and alarm. No. 1,387,594; Aug. 16; v. 289; p. 448.

Dahl, Ole, Muskegon, Mich. Packing-box. No. 1,387,690; Aug. 16; v. 289; p. 466.

Dahlstrom, John. (See Thomas, H., and Dahlstrom.)

Dailey, Edward J., Jr., New York, N. Y., assignor to Holophane Glass Co., Inc. Shade-holder. No. 1,387,474; Aug. 16; v. 289; p. 423.

Davenport, Herman A., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Insole. No. 1,387,691; Aug. 16; v. 289; p. 467.

Davis, Charles T., New York, N. Y. Package. No. 1,387,839; Aug. 16; v. 289; p. 497.

Davis, Frank B., Erie, Pa. Molding apparatus. No. 1,387,769; Aug. 16; v. 289; p. 483.

Davis, John H., Chicago, Ill. Evaporator. No. 1,387,840; Aug. 16; v. 289; p. 497.

Davis, Virginia, New York, N. Y. Key-ring. No. 1,388,100; Aug. 16; v. 289; p. 547.

Davis, William R., assignor to The William Hood Dunwoody Industrial Institute, Minneapolis, Minn. Radio-signaling apparatus. No. 1,387,885; Aug. 16; v. 289; p. 506.

De Baufre, William L., Annapolis, Md. Evaporator control. No. 1,387,475; Aug. 16; v. 289; p. 423.

De Baufre, William L., Annapolis, Md. System for evaporating water. No. 1,387,476; Aug. 16; v. 289; p. 423.

De Bouzek, Jean A., Salt Lake City, Utah. Automatic focusing device for cameras. No. 1,387,457; Aug. 16; v. 289; p. 419.

Delamp, Ray E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,387,595; Aug. 16; v. 289; p. 448.

De Montmollin, Guillaume, and H. J. Spieler, assignors to "Society of Chemical Industry in Basle," Basel, Switzerland. Dyestuffs and making the same. No. 1,387,596; Aug. 16; v. 289; p. 448.

De More, Leonel A., Oak Park, assignor to Mercury Manufacturing Company, Chicago, Ill. Driving mechanism for motor-vehicles. No. 1,387,477; Aug. 16; v. 289; p. 423.

Dempler, George P., assignor to Protected Seat Valve Company, Pittsburgh, Pa. Valve. No. 1,387,841; Aug. 16; v. 289; p. 497.

Denneen, Francis S., Cleveland, Ohio. Manufacturing shells. No. 1,387,924; Aug. 16; v. 289; p. 513.

Dennison Manufacturing Company. (See Mix, Wellington S., assignor.)

Denson, Heard D., assignor to M. C. Weaver, Miami, Fla. Dirigible headlight. No. 1,387,478; Aug. 16; v. 289; p. 424.

De Simone, Ross, Hilton, N. Y. Pneumatic railway-gate. No. 1,388,101; Aug. 16; v. 289; p. 547.

De Ved, George C. See De Ved, Smith B. and G. C.)

De Ved, Smith B. and G. C., Baltimore, Md. Core-box. No. 1,387,531; Aug. 16; v. 289; p. 435.

Dexter Company, The. (See George, William H., assignor.)

Dexter, I. H., Co. (See Dexter, Irven H., assignor.)

Dexter, Irven H., Pearl River, assignor to I. H. Dexter Co., Inc., New York, N. Y. Flexible coupling. No. 1,387,532; Aug. 16; v. 289; p. 435.

Dick, A. B., Company. (See Chipperfield, Walter, assignor.)

Dimock, Richard H., J. Sheaver, and G. Wyskocil, Cedar Rapids, Iowa. No. 1,388,029; Aug. 16; v. 289; p. 533.

Dobbertson, Fred C., Sturgis, Mich. Gluing-machine. No. 1,387,641; Aug. 16; v. 289; p. 457.

Dodge Manufacturing Company of Canada. (See Grass, George L., assignor.)

Dolbey, Harry S., Providence, R. I. Dental mirror. No. 1,387,770; Aug. 16; v. 289; p. 483.

Donnelly, John J., Denver, Colo. Windmill. No. 1,387,692; Aug. 16; v. 289; p. 467.

Donohoe, Thomas, Edgewood, Pa. Coal-mining machine. No. 1,387,886; Aug. 16; v. 289; p. 506.

Doose, Gabriel H. W., New Orleans, La. Bicycle propulsion-gearing. No. 1,388,102; Aug. 16; v. 289; p. 548.

Doran, John P., North Fond du Lac, Wis. Jack. No. 1,388,103; Aug. 16; v. 289; p. 548.

Dotterweich, George, Richmond Hill, N. Y. Automobile-engine support. No. 1,388,104; Aug. 16; v. 289; p. 548.

Double, Alice, administratrix. (See Double, Edward.)

Double, Edward, deceased, Los Angeles, Calif.; A. Double, administratrix. Underreamer. No. 1,388,105; Aug. 16; v. 289; p. 548.

Douglass, Gibson L., Duluth, Minn. Recording apparatus. No. 1,387,642; Aug. 16; v. 289; p. 457.

Down, Sidney G., and C. D. Stewart, Berkeley, Calif. Pulverized-fuel-burning apparatus. No. 1,388,030; Aug. 16; v. 289; p. 533.

Doyle, Frank A., assignor to The Sharples Separator Co., West Chester, Pa. Forming bakers' mix. No. 1,387,693; Aug. 16; v. 289; p. 467.

Dray, Howard T. R., Boulac, Cairo, Egypt. Anchoring means. No. 1,388,031; Aug. 16; v. 289; p. 534.

Dusseau, Maurice G. (See Dusseau, Silas V. and M. G.)

Dusseau, Silas V., Erie, and M. G. Dusseau, Detroit, Mich. Drive-wheel assembly. No. 1,387,967; Aug. 16; v. 289; p. 521.

Dutcher, Frank, Philadelphia, Pa. Window construction. No. 1,387,479; Aug. 16; v. 289; p. 424.

Eaddy, Bertrand L., Remuera, Auckland, New Zealand. Hat and fastener for same. No. 1,387,694; Aug. 16; v. 289; p. 467.

Eaton, Harrison H., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Work-support for cutting-machines. No. 1,387,695; Aug. 16; v. 289; p. 467.

Economy Shoe Machinery Company. (See Terry, George O., assignor.)

Eden, Harold W., Alton, Ill., assignor, by mesne assignments, to Gillespie-Eden Corporation. Washing-machine drive. No. 1,387,696; Aug. 16; v. 289; p. 467.

Edwards, William H., Grand Rapids, Mich. Typewriter. No. 1,387,842; Aug. 16; v. 289; p. 498.

Edwards, William T., San Diego, Calif. Mechanism for imparting an oscillatory movement to a driven element. No. 1,387,697; Aug. 16; v. 289; p. 468.

Eisele, Henry, Decatur, Ill. Device for quartering driving-wheels of locomotives. No. 1,387,533; Aug. 16; v. 289; p. 435.

Ekberg, Nels, St. Paul, Minn. Dump-car. No. 1,387,968; Aug. 16; v. 289; p. 521.

Eklof, John H. (See Hawksworth, F. G., and Eklof.)

Eklund, Georg, Berkeley, Calif. Child's velocipede. No. 1,387,771; Aug. 16; v. 289; p. 484.

Electro Chemical Products Company. (See Hoofnagle, William T., assignor.)

Elias, Otto, Rochester, Pa. Plane. No. 1,387,969; Aug. 16; v. 289; p. 522.

Ellis, Allan B., Appleton, Wis. Blackboard or slate. No. 1,387,534; Aug. 16; v. 289; p. 435.

Ellis, Edward E., and H. A. Thomas, Alhambra, Calif. Tire-carrier. No. 1,387,772; Aug. 16; v. 289; p. 484.

Embossing Company, The. (See Rutherford, J., and Baker, assignors.)

Emerson, John H., Syracuse, N. Y. Fruit-picker. No. 1,388,106; Aug. 16; v. 289; p. 549.

Emond, William H., assignor to H. H. Franklin Mfg. Company, Syracuse, N. Y. Vehicle-body-door construction. No. 1,387,773; Aug. 16; v. 289; p. 484.

Englund, Edwin H. L., Muskegon, Mich. Toy vehicle. No. 1,387,535; Aug. 16; v. 289; p. 436.

Erickson, Axel F., and D. W. Shiek, assignors to Allsteel-equip Company, Aurora, Ill. Latch and lock. No. 1,387,643; Aug. 16; v. 289; p. 457.

Erickson, Ingvald E., Osakis, Minn., assignor of one-half to F. S. Blochowick. Building structure. No. 1,387,698; Aug. 16; v. 289; p. 468.

Erickson, Lorence, Dawson, Minn. Tailor's kit. No. 1,387,970; Aug. 16; v. 289; p. 522.

Ernst, Johann, Paderborn, Germany. Exhaust-silencer. No. 1,388,107; Aug. 16; v. 289; p. 549.

Everett, William R., Benton Harbor, Mich., assignor, by mesne assignments, to F. G. Hogland, Rockford, Ill. Spring-motor. No. 1,387,480; Aug. 16; v. 289; p. 424.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Angle-cock handle. No. 1,387,971; Aug. 16; v. 289; p. 522.

Farmers Barn Equipment Co. (See Baerwaldt, Erwin W., assignor.)

Fast, Gustave, Mount Washington, assignor to The Bartlett Hayward Company, Baltimore, Md. Coupling for shafting. (Reissue.) No. 15,177; Aug. 16; v. 289; p. 558.

Ferry, D. M., & Co. (See Bowen, E. W., and Turner, assignors.)

Fesler, Douglas F., Evanston, Ill., assignor, by mesne assignments, to The Bassick Manufacturing Company. Lubricating system. No. 1,387,843; Aug. 16; v. 289; p. 498.

Fetherston, Henry M., *et al.* (See Flude, Daniel J., assignor.)

Fetters, Charles A., Washington, D. C. Collapsible suit-case. No. 1,387,597; Aug. 16; v. 289; p. 448.

Finton, Charles N., Lykens, Pa. Rope-socket. No. 1,387,481; Aug. 16; v. 289; p. 424.

Fischer, Alexander, Jr., Cincinnati, Ohio. Mop. No. 1,387,644; Aug. 16; v. 289; p. 458.

Fisher, Frederick E., Sudbrook Park, Md., assignor to E. K. Plumly, Philadelphia, Pa. Chuck. No. 1,387,844; Aug. 16; v. 289; p. 498.

Fil-Bac Screen Corporation. (See Chapin, John J., assignor.)

Flude, Daniel J., Essendon, assignor of one-half to H. M. Fetherston and F. W. Schellnack, Melbourne, Victoria, Australia. Construction of saddletrees. No. 1,387,925; Aug. 16; v. 289; p. 513.

Folberth, William M., Cleveland, Ohio. Actuating device for windshield-cleaners. No. 1,387,598; Aug. 16; v. 289; p. 448.

Ford, George A., Kansas City, Mo. Tying device. No. 1,387,699; Aug. 16; v. 289; p. 468.

Ford Instrument Company. (See Meitner, Elemer, assignor.)

Fox, James M. (See Anagnostopoulos, Theodore D., assignor.)

Franklin, H. H., Mfg. Company. (See Emond, William H., assignor.)

Frayer, Lee A. (See Monteith, J. C., and Frayer.)

Freeman-Daughaday Company. (See Le Clair, Frank J., assignor.)

Freitag, Herbert R., and C., Jr., and A. Hintz, Max, N. D. Dirigible headlight. No. 1,388,108; Aug. 16; v. 289; p. 549.

French, Alfred W., Piqua, Ohio. Expressing-press. No. 1,387,700; Aug. 16; v. 289; p. 468.

French, Charles E. (See Gunn, George H., assignor.)

Freyn, Brassert & Company. (See Wilcox, Frederick H., assignor.)

Frieden, Bruno P., Hamburg, Germany. Surgical truss. No. 1,387,774; Aug. 16; v. 289; p. 484.

Friedrich, Edward J., Minneapolis, Minn. Clutch-pedal lock for automobiles. No. 1,388,149; Aug. 16; v. 289; p. 557.

Frost, William, assignor to Harvey Frost & Company, Limited, London, England. Burner for vulcanizers. No. 1,388,032; Aug. 16; v. 289; p. 534.

Fulton, Edwin W., assignor to Velox Vise Co., Inc., Lowville, N. Y. Quick-acting vise. No. 1,387,845; Aug. 16; v. 289; p. 498.

Gabel, Albert W., Rochester, N. Y. License-bracket. No. 1,387,846; Aug. 16; v. 289; p. 498.

Gage, Harold J., Stockton, Calif. Adjustable view-reflector. No. 1,387,887; Aug. 16; v. 289; p. 506.

Gardiner, Norman B., Staten Island, N. Y. Fluid-measuring apparatus. No. 1,387,701; Aug. 16; v. 289; p. 469.

Gates, Norwood, Mineral Wells, Tex. Display-stand. No. 1,388,033; Aug. 16; v. 289; p. 534.

Gauthier, Ernest, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Clutch mechanism for power-driven punch-presses. No. 1,387,972; Aug. 16; v. 289; p. 522.

General Electric Company. (See Hull, Albert W., assignor.)

George, William H., assignor to The Dexter Company, Fairfield, Iowa. Gearing. No. 1,387,973; Aug. 16; v. 289; p. 522.

Gerberg, Morris, A. Hirsh, and M. Morgan, New York, N. Y., assignors to Atlas Doll & Toy Co., Inc., Baltimore, Md. Automaton. No. 1,387,482; Aug. 16; v. 289; p. 424.

Gerlach, Fred, *et al.*, trustees. (See Lindgren, Alexus C., assignor.)

Gillespie-Eden Corporation. (See Eden, Harold W., assignor.)

Gillespie, George, Ann Arbor, Mich. Extension-micrometer. No. 1,388,034; Aug. 16; v. 289; p. 534.

Gilman, Willard H., assignor, by mesne assignments, to J. A. McVickar, New York, N. Y. Driving means for phonograph attachments. No. 1,387,702; Aug. 16; v. 289; p. 469.

Glass, Arthur A., New York, N. Y. Tool for dressing emery-wheels and the like. No. 1,387,847; Aug. 16; v. 289; p. 499.

Glass, Charles A., Chicago, Ill. Shock-absorber. No. 1,387,536; Aug. 16; v. 289; p. 436.

Gleason, Jesse H., Atlanta, Ga. Casket. No. 1,387,974; Aug. 16; v. 289; p. 523.

Glidden, Raymond B., assignor to Kewanee Implement Company, Kewanee, Ill. Stock-waterer. No. 1,387,483; Aug. 16; v. 289; p. 425.

Goddard, William E., Watertown, Wis. Clamp for flexible containers. No. 1,387,975; Aug. 16; v. 289; p. 523.

Good Inventions Co. (See Good, John, assignor.)

Good, John, assignor to Good Inventions Co., Brooklyn, N. Y. Internal-combustion-engine power plants. No. 1,387,848; Aug. 16; v. 289; p. 499.

Goodman, Clarence C., Elyria, Ohio. Rubber heel. No. 1,387,976; Aug. 16; v. 289; p. 523.

Goodman, David T., Altoona, Pa. Switching-cable hook. No. 1,387,703; Aug. 16; v. 289; p. 469.

Goodrich, George N., Detroit, Mich. Carbureter. No. 1,387,484; Aug. 16; v. 289; p. 425.

Gorden, G Murl, assignor to H. B. Adams, Portland, Oreg. Lever-lock. No. 1,388,035; Aug. 16; v. 289; p. 534.

Gow, Alexander M., Duluth, Minn. Side-dump car. No. 1,387,485; Aug. 16; v. 289; p. 425.

Graney, Michael J., Pittsburgh, Pa. Furnace. No. 1,387,537; Aug. 16; v. 289; p. 436.

Grass, George L., assignor to Dodge Manufacturing Company of Canada, Limited, Toronto, Canada. Adjusting device for elevator-boot pulleys. No. 1,387,849; Aug. 16; v. 289; p. 499.

Gravell, James H., Elkins Park, Pa. Method of and composition for cleaning metals. No. 1,387,645; Aug. 16; v. 289; p. 458.

Gray, Leonard G., assignor to Walrus Manufacturing Company, Decatur, Ill. Refrigerator display-case. No. 1,387,486; Aug. 16; v. 289; p. 425.

Green, Clifford H., assignor to National Piano Manufacturing Company, Grand Rapids, Mich. Speed-equalising device for phonographs, &c. No. 1,387,704; Aug. 16; v. 289; p. 469.

Green, John C., Hackettstown, N. J. Canning-machine. No. 1,387,977; Aug. 16; v. 289; p. 523.

Greenawalt, William E., Denver, Colo. Electrolytic diaphragm. No. 1,387,705; Aug. 16; v. 289; p. 470.

Grieb, Alfred, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Glove-sewing machine. No. 1,388,109; Aug. 16; v. 289; p. 549.

Grout, Harry K., Muscatine, Iowa. Rule. No. 1,387,599; Aug. 16; v. 289; p. 448.

Gruss, George H., assignor of one-fourth to L. E. Bedford and one-fourth to C. Therkelsen, San Francisco, Calif. Shock-absorber. No. 1,387,706; Aug. 16; v. 289; p. 470.

Guiberson, S. A., Jr. (See Trew, George B., assignor.)

Gulf Refining Company. (See Alexander, Clive M., assignor.)

Gulick, Edward J., Elkhart, Ind. Antirattler. No. 1,387,539; Aug. 16; v. 289; p. 436.

Gulick, Edward J., Elkhart, Ind. Engine-piston. No. 1,387,538; Aug. 16; v. 289; p. 436.

Gunn, George H., assignor of one-half to C. E. French, Rochester, N. Y. Feeding mechanism. No. 1,387,707; Aug. 16; v. 289; p. 470.

Halket, William, assignor to L. D. Van Valkenburg, Holyoke, Mass. Spring-clip. No. 1,387,978; Aug. 16; v. 289; p. 523.

Hall, Walter B., and T. Merrill, Stratton, Nebr. Tractor. No. 1,387,708; Aug. 16; v. 289; p. 470.

Hallock, Raymond, G., Seattle, Wash. Punch-centering device. No. 1,388,110; Aug. 16; v. 289; p. 549.

Halpern, Carl. (See Zeidler, F. W., and Halpern.)

Halstead, Hobart, Buffalo, N. Y. Agitator. No. 1,387,709; Aug. 16; v. 289; p. 471.

Hammond, John H., Jr., Gloucester, Mass. System of radiodirective control. No. 1,387,850; Aug. 16; v. 289; p. 499.

Hanak, B. B., Company. (See Wolff, Oscar M., assignor.)

Hansen Grinder Company. (See Hansen, Julius C., assignor.)

Hansen, Julius C., Chicago, assignor, by mesne assignments, to Hansen Grinder Company, Cook county, Ill. Surface-grinding machine. No. 1,387,646; Aug. 16; v. 289; p. 458.

Hansen, Klaus L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electric-arc-welding system. No. 1,387,487; Aug. 16; v. 289; p. 426.

Hardie, Robert W., White Plains, N. Y. Means for conditioning vapor. No. 1,388,143; Aug. 16; v. 289; p. 555.

Harmon, Edwin L., assignor to Corona Typewriter Company, Inc., Groton, N. Y. Typewriting-machine. No. 1,387,979; Aug. 16; v. 289; p. 524.

Harriman National Bank of the City of New York, trustee. (See Catucci, Pliny, assignor.)

Harrington, Allan C., Chicago, Ill. Electric stove. No. 1,388,111; Aug. 16; v. 289; p. 550.

Harris, Smith, South Shaftsbury, Vt. Salt and pepper shaker. No. 1,388,036; Aug. 16; v. 289; p. 535.

Harrison, Burt S., Brooklyn, assignor to Carrier Engineering Corporation, New York, N. Y. Drying vegetables and fruits. No. 1,387,710; Aug. 16; v. 289; p. 471.

Hart, Frederick A., Jersey City, N. J., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,387,711; Aug. 16; v. 289; p. 471.

Hart, Herbert H., Orcutt, Calif. Fan housing cooling extension. (Reissue.) No. 15,178; Aug. 16; v. 289; p. 558.

Harvey Frost & Company Limited. (See Frost, William, assignor.)

Hasskarl, William S., Philadelphia, Pa. Fan. No. 1,388,037; Aug. 16; v. 289; p. 535.

Haugh Raymond R., Chicago, Ill. Terminal block. No. 1,387,980; Aug. 16; v. 289; p. 524.

Hawkins, Arthur W., assignor to Chicago Railway Equipment Company, Chicago, Ill. Floating reversible strut. No. 1,387,981; Aug. 16; v. 289; p. 524.

Hawksworth, Frank G., Westmont, N. J., and J. H. Eklof, Lansdowne, Pa., assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Technical anatomical dental model. No. 1,387,540; Aug. 16; v. 289; p. 437.

Hayden, Donald C., Bridgeport, Conn. Dental-chair jack. No. 1,387,541; Aug. 16; v. 289; p. 437.

Hays, E. R., *et al.* (See Lockhart, Howard, assignor.)

Heacock, R. A., *et al.* (See Lockhart, Howard, assignor.)

Headley, Clarence H., Sherburn, Minn. Attachment for autos. No. 1,387,775; Aug. 16; v. 289; p. 485.

Healey, Patrick J., Jersey City, N. J. Metal sash. No. 1,387,542; Aug. 16; v. 289; p. 437.

Hedlund, Gustaf E., Brockton, Mass. Shoe and making the same. No. 1,387,712; Aug. 16; v. 289; p. 471.

Heidbrink, Jay A., Minneapolis, Minn. Anesthetizing-machine. No. 1,387,647; Aug. 16; v. 289; p. 458.

Heimer, Oliver A., New York, N. Y. File-record and mount for X-ray negatives. No. 1,387,488; Aug. 16; v. 289; p. 426.

Henington, Clive K., Davis, Okla. Automatic pitch-adjuster for propeller-blades. No. 1,388,038; Aug. 16; v. 289; p. 535.

Henning, Albert, Leytonstone, England. Washing or cleaning machine. No. 1,387,776; Aug. 16; v. 289; p. 485.

Henry, Ferdinand G., New York, N. Y. Resilient wheel. No. 1,387,777; Aug. 16; v. 289; p. 485.

Henry, Hubert K., Detroit, Mich., assignor, by mesne assignments, to Rex Typewriter Company, Incorporated, Fond du Lac, Wis. Typewriting-machine. No. 1,387,543; Aug. 16; v. 289; p. 437.

Hewlett, Palmer B., San Francisco, Calif. Milking-machine. No. 1,387,713; Aug. 16; v. 289; p. 471.

Heyiman, Frederick C., Martinez, Calif. Stopcock. No. 1,387,714; Aug. 16; v. 289; p. 472.

Hibbard, Robert L., Pittsburgh, Pa. Drop-pit jack. No. 1,387,544; Aug. 16; v. 289; p. 437.

Hickman, George A., Pearl River, N. Y. Controlling means for spring-operated faucets. No. 1,387,715; Aug. 16; v. 289; p. 472.

Hicks, Atwood J. (See Walp, C. F., Hicks, and Reedy.)

Hills, Leon B., Lakewood, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Mold for storage-battery grids. No. 1,387,928; Aug. 16; v. 289; p. 514.

Hintz, Andrew. (See Freitag, H. R., C., Jr., and A. Hintz.)

Hintz, Christian, Jr. (See Freitag, H. R., C., Jr., and A. Hintz.)

Hinz, Julius C., deceased, Detroit, Mich.; W. Hinz, administrator. Drill-grinder. No. 1,388,039; Aug. 16; v. 289; p. 535.

Hinz, William, administrator. (See Hinz, Julius C.)

Hirsch, Alexander. (See Gerberg, M., Hirsch, and Morgan.)

Hiss, William J., New York, N. Y. Conduit or cable clamp and bridle-ring. No. 1,387,489; Aug. 16; v. 289; p. 426.

Hoffman, Roscoe C., Indianapolis, Ind. Disk-wheel construction. No. 1,387,982; Aug. 16; v. 289; p. 524.

Hoffman, Rudolph, Kankakee, assignor to Sears, Roebuck and Co., Chicago, Ill. Kitchen-cabinet. No. 1,387,927; Aug. 16; v. 289; p. 514.

Hofley, Frances, Lampman, Saswatchewan, Canada. Fly-trap. No. 1,387,716; Aug. 16; v. 289; p. 472.

Hofmeister, Leo, Milwaukee, Wis. Teat-cup. No. 1,387,983; Aug. 16; v. 289; p. 524.

Hogan, George F., Chicago, Ill. Envelop. No. 1,387,717; Aug. 16; v. 289; p. 472.

Hogland, F. G. (See Everett, William R., assignor).

Hollaender, Walter S., Cincinnati, Ohio. Drinking attachment for faucets. No. 1,387,718; Aug. 16; v. 289; p. 472.

Holle, Joseph, Newark, N. J., assignor to McCord Manufacturing Company, Inc., Detroit, Mich. Gasket. No. 1,387,648; Aug. 16; v. 289; p. 458.

Holmgren, Per F., Brooklyn, N. Y. Angular drill. No. 1,387,600; Aug. 16; v. 289; p. 449.

Holophane Glass Co. (See Dailey, Edward J., Jr., assignor.)

Holt, Annon W., Menomonie, Wis. Door-latch. No. 1,387,888; Aug. 16; v. 289; p. 506.

Hood, James M., Ranger, Tex. Sand-trap. No. 1,388,040; Aug. 16; v. 289; p. 535.

Hoofnagle, William T., Bloomfield, N. J., assignor to Electro Chemical Products Company, Brooklyn, N. Y. Method of and apparatus for treating air and gases electrically. No. 1,388,112; Aug. 16; v. 289; p. 550.

Horwitt, Paul H. (See La Beck, Louis, assignor.)

Howard, C. N. (See Johnson, Enos H., assignor.)

Howarth, Harry A. S. (See Kingsbury, A., and Howarth.)

Huffman, Oscar, Portsmouth, Ohio. Door-fastener. No. 1,387,719; Aug. 16; v. 289; p. 473.

Hughes, Frederick G. (See Simmons, C. B., and Hughes.)

Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Negative resistance. No. 1,387,984; Aug. 16; v. 289; p. 525.

Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Electron-discharge device. No. 1,387,985; Aug. 16; v. 289; p. 525.

Hull, Albert W., Schenectady, N. Y., assignor to General Electric Company. Wireless receiving syatem. No. 1,387,986; Aug. 16; v. 289; p. 525.

Hult, Oskar O., Stockholm, Sweden. Balancing device for motors. No. 1,387,720; Aug. 16; v. 289; p. 473.

Humes, Guy B., Chicago, Ill. Horn-mute. No. 1,387,490; Aug. 16; v. 289; p. 426.

Hunt, William J., St. Joseph, Mo. Spare-tire holder. No. 1,388,041; Aug. 16; v. 289; p. 536.

Hunter, John T., Sumrall, Miss. Churn-dasher. No. 1,388,042; Aug. 16; v. 289; p. 536.

Hupman, Harper M., assignor to Michigan Optical Company, Detroit, Mich. Rim-clamp-attaching device. No. 1,387,491; Aug. 16; v. 289; p. 426.

Hurst, Frederick W., Logan, Utah. Ironing-cabinet. No. 1,387,721; Aug. 16; v. 289; p. 473.

Husted, Lemuel J., Kansas City, Mo. Firing instrument for marine mines. No. 1,387,722; Aug. 16; v. 289; p. 473.

Huth, Walter H., Chicago, Ill. Automatically-reversible mechanical toy. No. 1,388,113; Aug. 16; v. 289; p. 550.

Hutter, Francis, New York, N. Y., assignor to The McCall Company. Garment-pattern. No. 1,387,723; Aug. 16; v. 289; p. 474.

Hydraulic Pressed Steel Company, The. (See Brainard, George C., assignor.)

Ibex Rubber Corporation. (See Atcheson, Robert H., assignor.)

Illinois Wire & Mfg. Co. (See Adam, Folger, assignor.)

Invincible Metal Office Furniture Company. (See Wege, Peter M., assignor.)

Iowa Lock and Manufacturing Company. (See Appleton, Jamie F., assignor.)

Irion, Charles W., Red Cliff, Colo. Gun-sight. No. 1,387,987; Aug. 16; v. 289; p. 525.

Jackson, George, Chicago, Ill., assignor to The Singer Manufacturing Company. Position-bracket for sewing-machines. No. 1,388,114; Aug. 16; v. 289; p. 550.

Jackson, Graham H., Newark, N. J., assignor to Universal Tobacco Machine Company. Tobacco stem rolling and leaf-booking machine. No. 1,387,545; Aug. 16; v. 289; p. 438.

Jarvis, Herbert C., Toronto, Ontario, Canada. Manufacture of wall-paper. No. 1,387,724; Aug. 16; v. 289; p. 474.

Jellalian, Martin, Cranston, R. I. Manually-operated buffing device for the inner face of rings. No. 1,387,778; Aug. 16; v. 289; p. 485.

Jelley, Henry. See Jelley, James and H.)

Jelley, James, Coventry and H. J., Birmingham, England. Dies for use in the manufacture of the tops of cycle and similar saddles. No. 1,387,779; Aug. 16; v. 289; p. 485.

Johansson, C. E., Inc. (See Aldeborgh, Erik H., assignor.)

Johnson, Alfred L., Boardman, Wis. Quack-grass destroyer. No. 1,387,725; Aug. 16; v. 289; p. 474.

Johnson, August, Pittsburgh, Pa. Holding device. No. 1,388,043; Aug. 16; v. 289; p. 536.

Johnson, Charles J., Elk River, Minn. Sled. No. 1,387,546; Aug. 16; v. 289; p. 438.

Johnson, Enos H., assignor of one-half to C. N. Howard, Los Angeles, Calif. Auto baggage-carrier. No. 1,388,044; Aug. 16; v. 289; p. 536.

Johnson, Joseph W., Newburgh, N. Y. Clamp. No. 1,388,045; Aug. 16; v. 289; p. 536.

Johnston, Harvey H., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Register. No. 1,387,492; Aug. 16; v. 289; p. 427.

Johnston, James S., Utica, N. Y. Gas-delayer for fire-arms. No. 1,387,889; Aug. 16; v. 289; p. 506.

Jones, Homer W., Cleveland, Ohio, assignor to National Carbon Company, Inc. Dry-cell can. No. 1,387,928; Aug. 16; v. 289; p. 514.

Jones, Hugh S., Hampstead, London, England. Treeing device for boots and shoes. No. 1,388,046; Aug. 16; v. 289; p. 537.

Jones, Louis W., Los Angeles, Calif. Melting-pot. No. 1,387,780; Aug. 16; v. 289; p. 486.

Jones, Russel, Pontiac, Mich. Rail-engaging brake. No. 1,388,047; Aug. 16; v. 289; p. 537.

Junge, Henry, *et al.* (See Leary, Edward J., assignor.)

Kann, William L., Pittsburgh, Pa. Abrasive for grinding and smoothing glass. No. 1,387,649; Aug. 16; v. 289; p. 459.

Kaplan, Louis, New York, N. Y. Rubber heel. No. 1,387,988; Aug. 16; v. 289; p. 526.

Karge, Maxwell R., Phoenix, assignor to The Citizens National Bank, Fulton, N. Y. Cushion power-transmitting element. No. 1,387,726; Aug. 16; v. 289; p. 474.

Karge, Maxwell R., Phoenix, assignor to The Citizens National bank, Fulton, N. Y. Steering-gear for motor-vehicles. No. 1,387,727; Aug. 16; v. 289; p. 474.

Karlsson, George. (See Wiberg, O. A., and Karlsson.)

Keagy, Charles O., Pitcairn, Pa. Pivot-joint. No. 1,387,989; Aug. 16; v. 289; p. 526.

Keen, Harold P. (See Rulon, Watson B., assignor.)

Keith, Harold L., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,387,990; Aug. 16; v. 289; p. 526.

Keller, Arnold B., *et al.*, trustees. See Lindgren, Alexus C., assignor.)

Keller Pneumatic Tool Company. (See Keller, W. H., and Schinkez, assignors.)

Keller, William H., and A. Schinkes, assignors to Keller Pneumatic Tool Company, Grand Haven, Mich. Percussion-tool. No. 1,387,493; Aug. 16; v. 289; p. 427.

Kelly, Edgar C. (See Wood, C. W., and Kelly.)

Kemper, Robert E., Rensselaer, N. Y. Sheet-feeding machine. No. 1,387,494; Aug. 16; v. 289; p. 427.

Kennedy, David S., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Typographical distributing-machine. No. 1,387,495; Aug. 16; v. 289; p. 427.

Kentworthy, Samuel P. (See Lungren, John F., assignor.)

Kewanee Implement Company. (See Glidden, Raymond B., assignor.)

Key, Emmett M., Tulsa, Okla. Notching device. No. 1,387,851; Aug. 16; v. 289; p. 500.

Kiesel, William F., Jr., Altoona, Pa. Arrangement of water-gage cocks. No. 1,388,115; Aug. 16; v. 289; p. 550.

Kimes, Hugh W., assignor to The Vaile-Kimes Company, Dayton, Ohio. Valve. No. 1,387,601; Aug. 16; v. 289; p. 449.

King, Forrest C., Columbia, S. C. Car-record book. No. 1,388,048; Aug. 16; v. 289; p. 537.

King, Joseph E., Nantyffyllon, near Bridgend, and B. Morgan, Caerau, near Bridgend, Wales. Safety-clevis. No. 1,387,781; Aug. 16; v. 289; p. 486.

Kingsbury, Albert, and H. A. S. Howarth, Pittsburgh, Pa.; said Howarth assignor to said Kingsbury. Bearing. No. 1,387,929; Aug. 16; v. 289; p. 514.

Kingsburg, Albert, and H. A. S. Howarth, Pittsburgh, Pa.; said Howarth assignor to said Kingsbury. Bearing. No. 1,387,930; Aug. 16; v. 289; p. 514.

Kleidman, Joseph, assignor to Pegasus Indicator Manufacturing Co., Inc., New York, N. Y. Indicating instrument for automobile-radiators. No. 1,387,880; Aug. 16; v. 289; p. 507.

Klosters Aktie Bolag. (See Ohlsson, Johan A., assignor.)

Knox, William J., Dubois, Pa. Side bearing for railway-cars. No. 1,387,852; Aug. 16; v. 289; p. 500.

Koehring Company. (See Lichtenberg, Erich H., assignor.)

Koelsebeck, Carl W. A., Alliance, Ohio. Universal rolling-mill. No. 1,387,650; Aug. 16; v. 289; p. 459.

Koffend, Joseph, Sr., Appleton, Wis. Safety-check. No. 1,388,049; Aug. 16; v. 289; p. 537.

Kohl, Adolph. (See Wolfeld, I., and Kohl.)

Kramer, Edward, Mishawaka, Ind. Hand-covering. No. 1,387,726; Aug. 16; v. 289; p. 475.

Krieger, George F., Grand Rapids, Wis. Tool-holder. No. 1,387,782; Aug. 16; v. 289; p. 486.

Kroyer, John M., Stockton, Calif. Steering mechanism for tractors. No. 1,387,892; Aug. 16; v. 289; p. 507.

Kroyer, John M., Stockton, Calif. Transmission mechanism. No. 1,387,891; Aug. 16; v. 289; p. 507.

Kuenneth, George W., assignor, by mesne assignments, to J. Kuenneth, Paterson, N. J. Warping-machine. No. 1,387,893; Aug. 16; v. 289; p. 507.

Kuenneth, Jeannette. See Kuenneth, George W., assignor.)

Kunau, Oscar F. C., Buffalo, N. Y. Knitting-machine. No. 1,387,783; Aug. 16; v. 289; p. 46.

Kunke, Edward G., and H. E. Thompson, Oklahoma, Okla. Pressure gage and cut-off for pneumatic tires. No. 1,387,991; Aug. 16; v. 289; p. 526.

Lake, Thomas A., Hillman, Mich. Jack. No. 1,387,992; Aug. 16; v. 289; p. 526.

Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Speed control for induction-motors. No. 1,387,496; Aug. 16; v. 289; p. 428.

Lamoise, Constant E., Namur, Quebec, Canada. Post-driving apparatus. No. 1,387,894; Aug. 16; v. 289; p. 507.

Lankford, William J., and W. H. Chappell, Chanute, Kans. Concrete railway-tie. No. 1,387,547; Aug. 16; v. 289; p. 438.

Larduskey, Albert H., Baltimore, Md. Locking device for automobiles. No. 1,387,651; Aug. 16; v. 289; p. 459.

Larson, John M., assignor to National Regulator Company, Chicago, Ill. Boiler and damper regulator for both steam and hot water. No. 1,387,853; Aug. 16; v. 289; p. 500.

La Veck, Louis, assignor to P. H. Horwitt and himself, Brooklyn, N. Y. Paper-catcher. No. 1,387,602; Aug. 16; v. 289; p. 449.

Leahy, Michael J., Philadelphia, Pa. Window-ventilator. No. 1,388,050; Aug. 16; v. 289; p. 537.

Le Clair, Frank J., Attleboro, assignor to Freeman-Daughaday Company, Chartley, Mass. Collar-holder. No. 1,387,497; Aug. 16; v. 289; p. 428.

Lederer, Herbert H., Cleveland, Ohio. Cuff. No. 1,387,854; Aug. 16; v. 289; p. 500.

Lee Razor Manufacturing Company. (See Browning, George, assignor.)

Lehmann, Christian T. (See Clairemont, V., and Lehmann.)

Leon, Karl O., Stockholm, Sweden. Ball-bearing. No. 1,387,993; Aug. 16; v. 289; p. 526.

Lesage, John B., Morris, Minn. Slat-repairing device. No. 1,388,051; Aug. 16; v. 289; p. 538.

Levaur, Aaron, New York, N. Y. Display-envelop. No. 1,387,784; Aug. 16; v. 289; p. 486.

Lewis, Harry A., Norristown, Pa., assignor to Westinghouse Electric and Manufacturing Company. Control system and apparatus. No. 1,387,498; Aug. 16; v. 289; p. 428.

Lewis, Rex W., Portland, Oreg. Drill. No. 1,387,994; Aug. 16; v. 289; p. 527.

Lichtenberg, Erich H., assignor, by mesne assignments, to Koehring Company, Milwaukee, Wis. Loader for concrete-mixers. No. 1,387,931; Aug. 16; v. 289; p. 514.

Limpert, John H., New York, N. Y. Dispensing apparatus. No. 1,387,995; Aug. 16; v. 289; p. 527.

Lindberg, Charles A., assignor to Sturgis Steel Go-Cart Co., Sturgis, Mich. Carriage adjustable back. No. 1,387,499; Aug. 16; v. 289; p. 428.

Lindberg, Elin M., Duluth, Minn. Hair-curler. No. 1,387,785; Aug. 16; v. 289; p. 487.

Lindbladh, Harmen E., Boston, Mass. Change-speed mechanism. No. 1,387,785; Aug. 16; v. 289; p. 487.

Linder, Carson A., *et al.* (See Smith, Jesse R., assignor.)

Lindgren, Alexus C., Hamilton, Ontario, Canada, assignor, by mesne assignments, to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Power-lift disk plow. No. 1,387,500; Aug. 16; v. 289; p. 428.

Lipe, Charles W., San Jose, Calif. Counterboring-tool. No. 1,387,662; Aug. 16; v. 289; p. 459.

Lippitt, Elihu and S. W., Cleveland, Ohio. Reversing mechanism. No. 1,387,855; Aug. 16; v. 289; p. 500.

Lippitt, Stephen W. (See Lippitt, Elihu and S. W.)

Liversidge, Horace P., Bala, Pa. Switch-lock. No. 1,387,787; Aug. 16; v. 289; p. 487.

Livingston, Hall, Auburn, Calif. Portable stove for orchardists. No. 1,387,788; Aug. 16; v. 289; p. 487.

Lockhart, Howard, Falls City, assignor to E. R. Hays and R. A. Heacock, Falls City, Nebr. Heater. No. 1,387,856; Aug. 16; v. 289; p. 501.

Lockyer, John C. (See Carroll, T., and Lockyer.)

Locuson, George H., Philadelphia, Pa. Flying-machine. No. 1,387,501; Aug. 16; v. 289; p. 429.

Lorentsen, Iver, Clear Lake, S. D. Nail-puller. No. 1,387,653; Aug. 16; v. 289; p. 459.

Lowry, Harold K., Chicago, Ill. Electrical connector device. No. 1,387,546; Aug. 16; v. 289; p. 488.

Ludlow, Neville B. (See Watson, G. W., and Ludlow.)

Lund, John, Bethlehem, assignor to Bethlehem Steel Company, South Bethlehem, Pa. Semi-automatic breech mechanism for guns. No. 1,387,502; Aug. 16; v. 289; p. 429.

Lungren, John F., assignor of one-half to S. P. Kentworthy, Philadelphia, Pa. Protective storage-casing for inner tubes. No. 1,387,549; Aug. 16; v. 289; p. 439.

Lyman, Arthur H., Westminster, London, England. Generation and utilization of producer-gas. No. 1,388,052; Aug. 16; v. 289; p. 538.

Lyons, Harvey E., Baltimore, Md. Combined strainer and fat-separator. No. 1,387,789; Aug. 16; v. 289; p. 487.

McBride, James P., Seattle, Wash. Bolting-up and plate-tightening machine. No. 1,387,895; Aug. 16; v. 289; p. 506.

McCabe, Hugh, Lawrence, Mass. Flanging-machine. No. 1,387,603; Aug. 16; v. 289; p. 449.

McCaffery, Peter, San Bernardino, Calif. Collapsible center mold for hollow walls. No. 1,387,790; Aug. 16; v. 289; p. 487.

McCall Company, The. (See Hutter, Francis, assignor.)

McClatchie, Griffin Y., Palo Alto, Calif. Automobile-engine-oiling device. No. 1,387,654; Aug. 16; v. 289; p. 459.

McClure, Bodney N., Los Angeles, Calif. Direction-indicator. No. 1,387,791; Aug. 16; v. 289; p. 488.

McCord Manufacturing Company. (See Holle, Joseph, assignor.)

McDermott, Henry, Electra, Tex. Friction transmission mechanism. No. 1,387,550; Aug. 16; v. 289; p. 439.

McGorry, Emmett J., Mauch Chunk, Pa. Railway-car brake. No. 1,387,729; Aug. 16; v. 289; p. 475.

McKee, Ralph H., New York, N. Y. Separating sulfur dioxid from gas mixtures. No. 1,387,857; Aug. 16; v. 289; p. 501.

McKenna, T. L. (See Shaw, O. B., and McKenna.)

McKeana, Frank E., Lockport, N. Y. Casting ingots. No. 1,387,792; Aug. 16; v. 289; p. 488.

McMunn, Alexander, Philadelphia, Pa. Warping-mill apparatus. No. 1,387,858; Aug. 16; v. 289; p. 501.

McVickar, John A. (See Gilman, Willard H., assignor.)

McVickar, John A., New York, N. Y. Tray for phonograph-records. No. 1,387,730; Aug. 16; v. 289; p. 475.

McVickar, John A., New York, N. Y. Filter for carburetors. No. 1,387,731; Aug. 16; v. 289; p. 475.

Mackey, Frank J. (See Wirth, Antone M., assignor.)

MacMillan, John B., and J. L. K. Snyder, assignors to Niagara Alkali Company, Niagara Falls, N. Y. Making permanganates. No. 1,388,053; Aug. 16; v. 289; p. 490.

Madjar, Stepan, Ogdensburg, N. J. Automobile-wheel. No. 1,387,793; Aug. 16; v. 289; p. 488.

Magnetic Manufacturing Co. (See Bethke, J. P., and Stearns, assignors.)

Mahon, Elmer C., Toledo, Ohio. Loose-leaf binder. No. 1,387,859; Aug. 16; v. 289; p. 501.

Mahoney, Joseph A. (See Royal, Osmon, assignor.)

Maloy, James A., Columbus, Ohio. Safety device for use in connection with guard-rails and switch-frogs on railways. No. 1,387,732; Aug. 16; v. 289; p. 475.

Mantel, Florian J., assignor to Crouse-Hinds Company, Syracuse, N. Y. Spring-barrel construction. No. 1,387,794; Aug. 16; v. 289; p. 488.

Mardis, Paul L., Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,387,503; Aug. 16; v. 289; p. 429.

Marichal, Georges G. O., Paris, France. Door-stop. No. 1,387,795; Aug. 16; v. 289; p. 488.

Marx & Haas Clothing Co. (See Weinberger, Benjamin, assignor.)

Mackrey, Arthur J., Canton, Ohio. Roll-scraper. No. 1,387,896; Aug. 16; v. 289; p. 508.

Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Interrupter for ignition devices. No. 1,387,796; Aug. 16; v. 289; p. 489.

Menger, Edward W., San Antonio, Tex. Pressure-screw. No. 1,387,990; Aug. 16; v. 289; p. 527.

Merrill, Tom. (See Hall, W. B., and Merrill.)

Michaelsen, Charles O., assignor to Michaelsen Machinery Company, Minneapolis, Minn. Rock-crusher. (Reissue.) No. 15,179; Aug. 16; v. 289; p. 558.

Michaelsen Machinery Company. (See Michaelsen, Charles O., assignor. (Reissue.)

Meier, August. (See Nitsch, F. L., and Meier.)

Meitner, Elemer, Brooklyn, assignor, by mesne assignments, to Ford Instrument Company, Incorporated, New York, N. Y. Range-predicting apparatus. No. 1,387,551; Aug. 16; v. 289; p. 439.

Mendal, Henry L., Baltimore, Md. Hair-cutting machine. No. 1,387,604; Aug. 16; v. 289; p. 449.

Mercury Manufacturing Company. (See De More, Leonel A., assignor.)

Mergenthaler Linotype Company. (See Kennedy, David S., assignor.)

Merritt, Ernest, Ithaca, N. Y. Method and apparatus for detecting or measuring small electromotive forces. No. 1,387,552; Aug. 16; v. 289; p. 439.

Messarce, John, Glenalum, W. Va. Rail-joint fastener. No. 1,387,504; Aug. 16; v. 289; p. 429.

Metzger, Floyd J., New York, N. Y., assignor to Air Reduction Company, Inc. Furnace-tube. No. 1,387,505; Aug. 16; v. 289; p. 429.

Meyer, George, assignor to L. Meyer, Seattle, Wash. Chain saw. No. 1,387,605; Aug. 16; v. 289; p. 450.

Meyer, Lena. (See Meyer, George, assignor.)

Meyer, William, Chicago, Ill. Therapeutic apparatus. No. 1,387,607; Aug. 16; v. 289; p. 450.

Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Thread-waxing device. No. 1,387,606; Aug. 16; v. 289; p. 450.

Michigan Optical Company. (See Hupman, Harper M., assignor.)

Midgett, Penelton G., Dallas, Tex. Well-drilling bit. No. 1,387,733; Aug. 16; v. 289; p. 475.

Mierow, Arthur W. (See Sperl, G. R., and Mierow.)

Miller, Adolph, Kirkwood, Mo. Towel-cabinet. No. 1,387,932; Aug. 16; v. 289; p. 515.

Miller, Edwin L., Kansas City, Mo. Gas-generating oil-burner. No. 1,387,506; Aug. 16; v. 289; p. 430.

Millar, Henry M. A., San Francisco, Calif. Tire-guard. No. 1,387,797; Aug. 16; v. 289; p. 489.

Miller, Herman, *et al.* (See Miller, Isidore L., assignor.)

Miller Isidore L., assignor of one-fourth to H. Miller, one-fourth to N. Miller, and one-fourth to N. Miller, New York, N. Y. Protective guard for the tools of cutting and punching machines, &c. No. 1,387,553; Aug. 16; v. 289; p. 440.

Miller, Nathan, *et al.* (See Miller, Isidore L., assignor.)

Miller, Norman, *et al.* (See Miller, Isidore L., assignor.)

Miller, Wilbur J., Newark, N. J. Automobile thief-alarm. No. 1,387,798; Aug. 16; v. 289; p. 489.

Millar, William, assignor to Amesbury Brass & Foundry Company, Amesbury, Mass. Window-fastener. No. 1,387,660; Aug. 16; v. 289; p. 501.

Miller, William J. (See Williams, H. O., and Miller.)

Mills, John H. T. (See Mills, Virgil H. and J. H. T.)

Mills, Virgil H., Hubbard, Tex. Oil-burner. No. 1,387,800; Aug. 16; v. 289; p. 489.

Mills, Virgil H. and J. H. T., Hubbard, Tex. Oil-burner. No. 1,387,799; Aug. 16; v. 289; p. 489.

Mints, Harry, Mattapan, Mass. Hammock. No. 1,387,801; Aug. 16; v. 289; p. 490.

Mitchell, James H., Danville, Ill. Method of and apparatus for making facing-bricks. No. 1,387,861; Aug. 16; v. 289; p. 501.

Mix, Wellington S., Chicago, Ill., assignor to Dennison Manufacturing Company, Framingham, Mass. Tag. No. 1,387,657; Aug. 16; v. 289; p. 460.

Moffitt, Morris E., Peck, Kans. Crate. No. 1,387,554; Aug. 16; v. 289; p. 440.

Moller, Edward M. (See Benedict, H. A., and Moller.)

Mollet, Nicholas, Massillon, Ohio. Sign. No. 1,387,933; Aug. 16; v. 289; p. 515.

Monson, George S., St. Paul, Minn., assignor to M. F. Patterson Dental Supply Company, Chicago, Ill. Heating utensil. No. 1,388,116; Aug. 16; v. 289; p. 550.

Monteith, John C., Cleveland, and L. A. Frayer, Columbus, Ohio. Means for making springs. No. 1,387,934; Aug. 16; v. 289; p. 515.

Montgomery Mfg. Company. (See Ohaver, William D., assignor.)

Moore, Giles S. (See Moore, Otto, assignor.)

Moore, Onon G., Nashville, Tenn. Automobile-skid. No. 1,388,053; Aug. 16; v. 289; p. 538.

Moore, Otto, assignor of one-half to G. S. Moore, Frankfort, Ind. Sliding trolley. No. 1,387,807; Aug. 16; v. 289; p. 508.

Morgan, Benjamin. (See King, J. E., and Morgan.)

Morgan, Mitchel. (See Gerberg, M., Hirsch, and Morgan.)

Morton, Robert P., Jr., Fairview, N. J. Drapery-hanger. No. 1,388,054; Aug. 16; v. 289; p. 538.

Müller, Fred W., Hoboken, N. J. Bottle-filling apparatus. No. 1,387,507; Aug. 16; v. 289; p. 430.

National Carbon Company. (See Hills, Leon B., assignor.)

National Carbon Company. (See Jones, Homer W., assignor.)

National Cash Register Company, The. (See Carroll, T., and Lockyer, assignors.)

National Farm Equipment Company. (See Whitney, Leon F., assignor.)

National Lead Company. (See Newnam, William E., assignor.)

National Manufacturing Company. (See Baumgartner, Charles B., assignor.)

National Piano Manufacturing Company. (See Green, Clifford H., assignor.)

National Regulator Company. (See Larson, John M., assignor.)

Neecher, August E., Chicago, Ill. Fluid-pipe coupling for railway-cars. No. 1,387,508; Aug. 16; v. 289; p. 430.

New Departure Manufacturing Company, The. (See Simmons, C. B., and Hughes, assignors.)

Newbold, Harry, St. Albans, England. Rimless-eyeglass mount. No. 1,387,898; Aug. 16; v. 289; p. 508.

Newnam, William E., Collinsville, Ill., assignor, by mesne assignments, to National Lead Company, New York, N. Y. Mechanically-operated Scotch hearth. No. 1,388,144; Aug. 16; v. 289; p. 556.

Neyland, William M., Goliad, Tex. Ice-cream freezer. No. 1,388,055; Aug. 16; v. 289; p. 538.

Niagara Alkali Company. (See MacMillan, J. B., and Snyder, assignors.)

Nimicks, Josephine S., Freehold, N. J. Swinging cradle. No. 1,388,117; Aug. 16; v. 289; p. 550.

Nitsch, Frederick L., and A. Meier, Syracuse, N. Y. Entrance for beehives. No. 1,387,734; Aug. 16; v. 289; p. 476.

North, William H., Cambridge, Md. Collar-protector. No. 1,388,056; Aug. 16; v. 289; p. 538.

Norton Company. (See Alden, George I., assignor.)

Nosawa, Kaichi. (See Asakawa, S., and Nosawa.)

Nottage, Stanley G., Murraysville, Pa., assignor to Westinghouse Electric & Manufacturing Company. Liquid rheostat. No. 1,387,509; Aug. 16; v. 289; p. 430.

Novotny, Emil E., Logan, assignor to J. S. Stokes, Philadelphia, Pa. Gage for making printing equipment. No. 1,387,802; Aug. 16; v. 289; p. 490.

Odhner, Valentin J., Stockholm, Sweden. Calculating-machine. No. 1,387,608; Aug. 16; v. 289; p. 450.

Odle, Leo E. (See Odle, Ophelia and L. E.)

Odle, Ophelia and L. E., Waco, Tex. Plaiting-machine. No. 1,387,658; Aug. 16; v. 289; p. 460.

Ohaver, William D., Judson, assignor to Montgomery Mfg. Company, Waveland, Ind. Dashboard-gage for gasolene-tanks. No. 1,388,151; Aug. 16; v. 289; p. 557.

Ohaver, William D., Judson, assignor to Montgomery Mfg. Company, Waveland, Ind. Hands for operating oil-level petcocks. No. 1,388,150; Aug. 16; v. 289; p. 557.

Ohlsson, Johan A., assignor to Klosters Aktie Bolag, Stockholm, Sweden. Ball-bearing. No. 1,387,609; Aug. 16; v. 289; p. 450.

O'Keefe, John J., Kensington, near Sydney, New South Wales, assignor of one-half to F. H. Pilcher, Kensington, New South Wales, Australia. Footprint-spanner. No. 1,387,659; Aug. 16; v. 289; p. 460.

Oldendorf, William, Rushford, Minn. Tractor-guide. No. 1,388,057; Aug. 16; v. 289; p. 539.

O'Leary, Edward J., Minneapolis, assignor of one-half to F. A. Thurston and one-half to H. Junge, St. Paul, Minn. Milking apparatus. No. 1,387,510; Aug. 16; v. 289; p. 430.

O'Neil, Michael G. (See Borchert, C. A., and O'Neil.)

Orr, Elbert A. (See Webb, William F., assignor.)

Ortwig, Ernst, Cologne-Ehrenfeld, Germany. Tool-holder. No. 1,387,862; Aug. 16; v. 289; p. 502.

Osborne, Walter F., Wagon Mound, N. Mex. Aeroplane. No. 1,387,899; Aug. 16; v. 289; p. 508.

Osburn, Orville F. (See Buley, L. A., and Osburn.)

Ostenberg, Pontus, San Jose, Calif. Centrifugal pump. No. 1,387,660; Aug. 16; v. 289; p. 460.

Otis, Peter J., East Haven, Conn. Window-shade bracket. No. 1,387,610; Aug. 16; v. 289; p. 451.

Otis, Spencer, Chicago, Ill. Locomotive-terminal for railway systems. No. 1,387,863; Aug. 16; v. 289; p. 502.

Owens, Floyd L., *et al.* (See Smith, Jesse R., assignor.)

Osmo Oil Refining Company. (See Wheeler, Willoughby M., assignor.)

Pacz, Aladar, Cleveland Heights, Ohio. Alloy. No. 1,387,900; Aug. 16; v. 289; p. 509.

Page, Edwin L., Bridgeport, Calif. Safety-razor. No. 1,387,935; Aug. 16; v. 289; p. 515.

Page, Edwin L., Oakland, Calif. Vise appliance. No. 1,387,936; Aug. 16; v. 289; p. 515.

Page, Frank H., Waverly, Iowa. Hog-feeder. No. 1,387,997; Aug. 16; v. 289; p. 527.

Palahnuk, Onufry, Ford, Ontario, Canada. Animal-trap. No. 1,387,803; Aug. 16; v. 289; p. 490.

Palmeter, William E., Elmwood, Nebr. Concrete-mixer. No. 1,388,118; Aug. 16; v. 289; p. 551.

Pankrath, Otto, Raunheim, Main, Germany. Centrifugal machine. No. 1,387,661; Aug. 16; v. 289; p. 461.

Paramount Rubber Consolidated, Inc. (See Roberts, Fred T., assignor.)

Paramount Rubber Consolidated. (See Roberts, William E., assignor.)

Patterson, M. F., Dental Supply Company. (See Monson, George S., assignor.)

Pauli, Samuel, New York, N. Y. Combination-garment. No. 1,387,937; Aug. 16; v. 289; p. 515.

Pautze, Hermann, Berlin, Germany. Locker for tickets in ticket-selling rooms of railway-stations. No. 1,387,662; Aug. 16; v. 289; p. 461.

Payne, Frank E., Glencoe, Ill. Packing condensers. No. 1,387,901; Aug. 16; v. 289; p. 509.

Payne, Samuel R., Oxford, Kans. Trap. No. 1,387,735; Aug. 16; v. 289; p. 476.

Pedersen, John D., Jackson, Wyo. Firearm. No. 1,387,938; Aug. 16; v. 289; p. 516.

Pegasus Indicator Manufacturing Co. (See Kleidman, Joseph, assignor.)

Pehel, Zygmunt H., New York, N. Y. Lock-operated circuit-closer. No. 1,388,119; Aug. 16; v. 289; p. 551.

Pekar, Frank, Bridgeport, Conn. Automobile-signal. No. 1,387,611; Aug. 16; v. 289; p. 451.

Pennsylvania Wire Glass Company. (See Shuman, Arno, assignor.)

Pepper, David, Philadelphia, Pa. Method and apparatus for casting metal cups. No. 1,387,864; Aug. 16; v. 289; p. 502.

Peppers, John W., Calgary, Alberta, Canada. Oil-can. No. 1,387,612; Aug. 16; v. 289; p. 451.

Pestel, William M., assignor to Schaar & Company, Chicago, Ill. Analytical balance and the like. No. 1,387,998; Aug. 16; v. 289; p. 528.

Petermann, Otto, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Segment-shift for typewriting-machines. No. 1,387,939; Aug. 16; v. 289; p. 516.

Petermann, Otto, assignor to Corona Typewriter Company, Inc., Groton, N. Y. Segment-shift for typewriting-machines. No. 1,387,940; Aug. 16; v. 289; p. 516.

Peterson, Paul, Juneau, Alaska. Automatic fishhook. No. 1,388,058; Aug. 16; v. 289; p. 539.

Petinot, Napoleon, New York, N. Y. Making an alloy of nickel and zirconium. No. 1,387,663; Aug. 16; v. 289; p. 461.

Petri, Gunther H., Brookline, Mass. Apparatus for printing on waxed paper and the like. No. 1,387,941; Aug. 16; v. 289; p. 516.

Pettersson, Hugo E., Stockholm, Sweden. Mold-pressing machine. No. 1,387,942; Aug. 16; v. 289; p. 517.

Pilcher, Frank H. (See O'Keefe, John J., assignor.)

Plott, George R., Hillsboro, N. C. Bobbin-support. No. 1,387,943; Aug. 16; v. 289; p. 517.

Plumley, Eugene K. (See Fisher, Frederick E., assignor.)

Poole, Arthur F., Kenilworth, Ill. Aeroplane-speed indicator. No. 1,387,555; Aug. 16; v. 289; p. 440.

Pope, Joseph H., Hamilton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,388,120; Aug. 16; v. 289; p. 551.

Porter, Herman P., Jacksonville, Fla. Window-sash. No. 1,388,121; Aug. 16; v. 289; p. 551.

Porter, William, Aurora, Oreg. Clevis. No. 1,388,122; Aug. 16; v. 289; p. 551.

Powell, Antoinette M. (See Powell, George G., assignor.)

Powell, George G., assignor to A. M. Powell, New York, N. Y. Cane-cutting machine. No. 1,387,511; Aug. 16; v. 289; p. 431.

Prada, Carlo, Milan, Italy. Electric switch. No. 1,387,865; Aug. 16; v. 289; p. 502.

Prado P., Manuel, Santiago, Chile. Composition for matches and making same. No. 1,387,999; Aug. 16; v. 289; p. 528.

Preuss, Max, Charlottenburg, Germany. Electromagnetic clutch. No. 1,387,902; Aug. 16; v. 289; p. 509.

Price, Cleo, Falun, Kans. Window-lock. No. 1,387,903; Aug. 16; v. 289; p. 509.

Price, Filmore M., Floyada, Tex. Well-casing extractor. No. 1,387,944; Aug. 16; v. 289; p. 517.

Pritchard, Ray W., Baltimore, Md. Rim-guard for tires. No. 1,388,000; Aug. 16; v. 289; p. 528.

Proper, Russell H., New York, N. Y. Ice-cream-sandwich machine. No. 1,387,613; Aug. 16; v. 289; p. 451.

Protected Seat Valve Company. (See Borchert, C. A., and O'Neil, assignors.)

Protected Seat Valve Company. (See Dempler, George P., assignor.)

Puc, Vojtech, Prague-Vinohrady, Bohemia. Safety-pin. No. 1,387,512; Aug. 16; v. 289; p. 431.

Pugh, Harry W., New York, N. Y., and J. A. Wotton, Montclair, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Adapter for telephone calling devices. No. 1,387,945; Aug. 16; v. 289; p. 517.

Pupilla, Paul P., New York, N. Y. Shaving-brush. No. 1,388,001; Aug. 16; v. 289; p. 528.

Pyle, Elton E., Morris, Ill. Device for guiding tractors. No. 1,387,556; Aug. 16; v. 289; p. 440.

R. F. L. Tool and Die Company. (See Rother, Walter, assignor.)

Rabb, William S., St. Paul, Minn. Control for aeroplanes. No. 1,387,513; Aug. 16; v. 289; p. 431.

Rachlin, Max, New York, N. Y. Sash-holder. No. 1,387,904; Aug. 16; v. 289; p. 509.

Raicy, Frank W., Modesto, Calif. Sawdust soap. No. 1,387,804; Aug. 16; v. 289; p. 490.

Rail Joint Company, The. (See Whiteman, George W., assignor.)

Rapson, Frederick L., Liverpool, England. Lifting-jack. No. 1,387,905; Aug. 16; v. 289; p. 509.

Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Key-operated fuse-plug. No. 1,387,906; Aug. 16; v. 289; p. 510.

Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Miniature lamp-socket for Christmas trees. No. 1,387,907; Aug. 16; v. 289; p. 510.

Reed, Clarence E., Houston, Tex. Pipe-wrench. No. 1,387,866; Aug. 16; v. 289; p. 502.

Reed, Clarence E., Houston, Tex. Wrench. No. 1,387,867; Aug. 16; v. 289; p. 503.

Reedy, Fred O. (See Walp, C. F., Hicks, and Reedy.)

Refinite Company, The. (See Wherry, James B., assignor.)

Reid, David, Buffalo, N. Y. Muffler. No. 1,387,614; Aug. 16; v. 289; p. 451.

Reisner, W. H., Manufacturing Company, The. (See Reisner, William H., assignor.)

Reisner, William H., assignor to The W. H. Reisner Manufacturing Company, Hagerstown, Md. Magnetic valve for organs and the like. No. 1,387,664; Aug. 16; v. 289; p. 461.

Rex Typewriter Company. (See Henry, Hubert K., assignor.)

Reynolds, Anita S., Greenwich, Conn. Lift-indicator for flying-machines. No. 1,387,514; Aug. 16; v. 289; p. 432.

Reynolds Spring Company. (See Van Hove, Desire H., assignor.)

Richman, Walter A., Egg Harbor, N. J. Toy. No. 1,388,059; Aug. 16; v. 289; p. 539.

Ricigliano, Anthony, Buffalo, N. Y. Signaling device. No. 1,388,060; Aug. 16; v. 289; p. 539.

Riedel, Robert W., Ault, Colo. Dispensing attachment for beverage-mixing devices. No. 1,387,908; Aug. 16; v. 289; p. 510.

Rincker, Friedrich G. C., Watergraafsmeer, Netherlands. Gasification of solid fuel. No. 1,388,145; Aug. 16; v. 289; p. 556.

Ring, Lewis J., Wakefield, Nebr. Safety water-craft. No. 1,387,665; Aug. 16; v. 289; p. 461.

Ritter, Elmer R., Cincinnati, Ohio. Attachable vehicle-spring. No. 1,387,615; Aug. 16; v. 289; p. 452.

Rittel, Conrad, assignor of one-half to J. J. Tangeman, Dayton, Ohio. Automobile-wheel. No. 1,388,061; Aug. 16; v. 289; p. 539.

Roberts, Fred T., Cleveland, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Making hollow rubber articles. No. 1,388,123; Aug. 16; v. 289; p. 552.

Roberts, Fred T., Cleveland Heights, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Process of and apparatus for making hollow rubber articles. No. 1,388,124; Aug. 16; v. 289; p. 552.

Roberts, Fred T., Cleveland, Ohio, assignor, by mesne assignments, to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Apparatus for making hollow rubber articles. No. 1,388,125; Aug. 16; v. 289; p. 552.

Roberts, Fred T., Cleveland, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Apparatus for making pneumatic inner tubes. No. 1,387,616; Aug. 16; v. 289; p. 452.

Roberts, Fred T., Cleveland Heights, Ohio, assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Making rubber articles having cores and apparatus therefor. No. 1,387,805; Aug. 16; v. 289; p. 490.

Roberts, William E., Andover, Mass., assignor to Paramount Rubber Consolidated, Inc., Philadelphia, Pa. Apparatus for making hollow rubber articles. No. 1,387,617; Aug. 16; v. 289; p. 452.

Robertshaw, Frederick W., Pittsburgh, Pa. Thermostat. No. 1,387,618; Aug. 16; v. 289; p. 452.

Robey, William G., Grafton, W. Va. Incandescent gas-burner. No. 1,388,002; Aug. 16; v. 289; p. 528.

Robinson, Clarence I., Staten Island, N. Y., assignor to Standard Oil Company, Bayonne, N. J. Purifying hydrocarbon oils. No. 1,387,868; Aug. 16; v. 289; p. 503.

Rockford Tool Company. (See Sundstrand, Gustaf D., assignor.)

Roemer, Henry A., Canton, Ohio. Friction-gear. No. 1,387,909; Aug. 16; v. 289; p. 510.

Rogers, Charlie M., Mayo, S. C. Roller-pressure device. No. 1,387,910; Aug. 16; v. 289; p. 510.

Rogers, James H., Hyattsville, Md. Radiosignaling system. No. 1,387,736; Aug. 16; v. 289; p. 476.

Rogers, Victor B., New York, N. Y. Cuff-link. No. 1,387,557; Aug. 16; v. 289; p. 440.

Rohland, Charles A., assignor to Vacuum Glass Machine Company, Uniontown, Pa. Manufacturing vacuum wall-containers. No. 1,388,126; Aug. 16; v. 289; p. 552.

Rohm & Haas. (See Bauer, Walter, assignor.)

Rosenthal, Morris G., Cincinnati, Ohio. Sewing-machine. No. 1,387,619; Aug. 16; v. 289; p. 452.

Rosheim, Elling I., Roland, Iowa. Sprue-former. No. 1,387,558; Aug. 16; v. 289; p. 441.

Rother, Walter, assignor to R. F. L. Tool and Die Company, Detroit, Mich. Valve-refacing tool. No. 1,387,666; Aug. 16; v. 289; p. 461.

Rotter, Max, assignor to Buach-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Engine air-compressor. No. 1,387,515; Aug. 16; v. 289; p. 432.

Royal, Osmon, assignor to J. A. Mahony, Boston, Mass. Grease-cup. No. 1,387,737; Aug. 16; v. 289; p. 476.

Royle, Vernon, Paterson, N. J. Power-saw. No. 1,387,869; Aug. 16; v. 289; p. 503.

Ruff, William J., Quincy, Ill. Vapor-filter. No. 1,387,870; Aug. 16; v. 289; p. 503.

Ruley, Loyd A., and O. F. Osburn, Helena, Okla. Tool. No. 1,388,062; Aug. 16; v. 289; p. 540.

Rulon, Watson B., Philadelphia, Pa., assignor to H. P. Keen, Bellevue, Del. Lubricating device. No. 1,387,806; Aug. 16; v. 289; p. 490.

Runck, John J., Republican City, Nebr. Unloading and elevating apparatus. No. 1,388,063; Aug. 16; v. 289; p. 540.

Rushmore, Samuel W., Plainfield, N. J. Starter. No. 1,387,559; Aug. 16; v. 289; p. 441.

Russell, Albert. (See Chambless, James, assignor.)

Russell, William H., New Haven, Conn. Cooking set. No. 1,387,667; Aug. 16; v. 289; p. 462.

Rutherford, John, Jr., and T. F. Baker, assignor to The Embossing Company, Albany, N. Y. Game. No. 1,387,946; Aug. 16; v. 289; p. 517.

Saint, Aimée M., Kaplan, La. Preparing whole rice. No. 1,387,560; Aug. 16; v. 289; p. 441.

Sanders, Oscar P., Waco, Tex. Kettle-furnace. No. 1,387,807; Aug. 16; v. 289; p. 491.

Schaar & Company. (See Pestel, William M., assignor.)

Schatte, Charles, New York, N. Y., assignor to Schatte Manufacturing Co., Inc., Lansdale, Pa. Brush. No. 1,388,127; Aug. 16; v. 289; p. 553.

Schatte Manufacturing Co. (See Schatte, Charles, assignor.)

Schelbe, Ludwig, Krülpa, Kr. Ziegenrück, Germany. Folding chair. No. 1,388,146; Aug. 16; v. 289; p. 556.

Schellnack, Ferdinand W., *et al.* (See Flude, Daniel J., assignor.)

Schimming, Anton G. (See Sumner, James I., assignor.)

Schindler, Paul, Jersey City, N. J. Automatic vacuum oil-feed for internal-combustion engines. No. 1,387,738; Aug. 16; v. 289; p. 476.

Schinkes, Albert. (See Keller, W. H., and Schinkes.)

Schirmer, Carl, Hibbing, Minn. Washing-machine. No. 1,388,064; Aug. 16; v. 289; p. 540.

Schmit, Joseph, Lansing, Mich. Driving and steering mechanism. No. 1,388,004; Aug. 16; v. 289; p. 529.

Schmitz, Henry J., Berkeley, Calif. Fruit-canner. No. 1,388,065; Aug. 16; v. 289; p. 540.

Schoenborn, Otto J., St. Joseph, Mo. Antiskid attachment for vehicles. No. 1,388,066; Aug. 16; v. 289; p. 540.

Schooley, Edward A., Pittsburgh, Pa. Making railway signal-torpedoes. No. 1,388,067; Aug. 16; v. 289; p. 541.

Schooley, Edward A., Pittsburgh, and W. C. Wilson, Jr., Callery, assignors to Clumbia Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,388,068; Aug. 16; v. 289; p. 541.

Schrago, Samuel, Los Angeles, Calif. Adjustable support for pens and the like. No. 1,387,808; Aug. 16; v. 289; p. 491.

Schultz, Reinhold. (See Walton, F. S., and Schultz.)

Schuls, John A., Baltimore, Md. Shoe-stretcher. No. 1,387,516; Aug. 16; v. 289; p. 432.

Schuls, Robert, Milwaukee, Wis. Window-screen. No. 1,387,947; Aug. 16; v. 289; p. 518.

Scott, Harvey E. (See Cannon, C. A., and Scott.)

Scott, John M., St. Petersburg, Fla. Bumping-post. No. 1,387,561; Aug. 16; v. 289; p. 441.

Sears, Roebuck and Co. (See Hoffman, Rudolph, assignor.)

Sebeto, John, Brooklyn, N. Y. Bathing-boat. No. No. 1,388,003; Aug. 16; v. 289; p. 528.

Seeck, Ferdinand W., Lebanon, Oreg. Gearless differential power transmission. No. 1,388,069; Aug. 16; v. 289; p. 541.

Seiwald, Mike, Eudora, Kans. Shoe. No. 1388,070; Aug. 16; v. 289; p. 541.

Sentinel Alarm Co. (See Butcher, James M., assignor.)

Shaller, Paul R., Washington, D. C. Sanding device for automobiles. No. 1,387,620; Aug. 16; v. 289; p. 453.

Sharples Separator Co., The. (See Doyle, Frank A., assignor.)

Shaw, Oscar B., and F. L. McKenna, Parkersburg, W. Va. Tool-box. No. 1,387,655; Aug. 16; v. 289; p. 460.

Sheaver, Joseph. (See Dimock, E. H., Sheaver, and Wyskocil.)

Shefts, George, Washington, D. C. Motor-vehicle body. No. 1,387,911; Aug. 16; v. 289; p. 511.

Shiek, Daniel W. (See Erickson, A. F., and Shiek.)

Shields, Frank S., and J. A. Camm, assignors, by mesne assignments, to The Clark & Meaker Milling Machine Company, Cleveland, Ohio. Machine-tool. No. 1,387,517; Aug. 16; v. 289; p. 432.

Shipman, Charles M., Newark, N. J. Preventing the passage of gases of combustion through the walls of furnaces or other containers. No. 1,387,739; Aug. 16; v. 289; p. 477.

Shultz, William R., Camp Lee, Va. Mail-bag catcher. No. 1,387,518; Aug. 16; v. 289; p. 432.

Shuman, Arno, assignor to Pennsylvania Wire Glass Company, Philadelphia, Pa. Glass roofing or wall. No. 1,387,621; Aug. 16; v. 289; p. 453.

Silverman, Charles, Providence, R. I. Button. No. 1,387,948; Aug. 16; v. 289; p. 518.

Simmons, Charles B., and F. G. Hughes, assignors to The New Departure Manufacturing Company, Bristol, Conn. Measuring instrument. No. 1,387,622; Aug. 16; v. 289; p. 453.

Simons, Reuben G., Los Angeles, Calif. Building-tile. No. 1,387,809; Aug. 16; v. 289; p. 491.

Simons, Sidney G., Columbus, Ga. Nutcracker. No. 1,388,071; Aug. 16; v. 289; p. 541.

Singer Manufacturing Company, The. (See Grieb, Alfred, assignor.)

Singer Manufacturing Company, The. (See Jackson, George, assignor.)

Sitta, Methold F., Chicago, Ill. Typewriter cabinet-desk. No. 1,388,072; Aug. 16; v. 289; p. 542.

Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Call-metering system. No. 1,387,668; Aug. 16; v. 289; p. 462.

Slough, Frank M., Elyria, Ohio., assignor, by mesne assignments, to Stromberg-Carlson Telephone Mfg. Co., Rochester, N. Y. Telephone system. No. 1,387,669; Aug. 16; v. 289; p. 462.

Smith, A. O., Corporation. (See Smith, Lloyd R., assignor.)

Smith, Andrew R., Concepcion, Calif. Rotary engine. No. 1,387,949; Aug. 16; v. 289; p. 518.

Smith, Harry J., Bend, Oreg. Wrench. No. 1,388,005; Aug. 16; v. 289; p. 529.

Smith, Jesse R., assignor of twenty-five per cent. to C. A. Linder, twenty-five per cent. to F. L. Owens, Greenfield, and twenty-five per cent to D. Corsa, White Hall, Ill. Garment-supporter. No. 1,387,912; Aug. 16; v. 289; p. 511.

Smith, Karl D., assignor to Union Steam Pump Company, Battle Creek, Mich. High-pressure pump. No. 1,387,623; Aug. 16; v. 289; p. 453.

Smith, Launcelot E., *et al.* (See Thompson, Herbert A., assignor.)

Smith, Lloyd R., assignor to A. O. Smith Corporation, Milwaukee, Wis. Apparatus for hardening flat concrete work. No. 1,388,128; Aug. 16; v. 289; p. 553.

Smith, Willard A., Melrose, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Thread-handling machine. No. 1,387,624; Aug. 16; v. 289; p. 453.

Snyder, Joseph L. K. (See MacMillan, J. R., and Snyder.)

"Society of Chemical Industry in Basle." (See de Montmollin, G., and Spieler, assignors.)

Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)

Sperl, Gustav R., and A. W. Mierow, Milwaukee, Wis. Adjustable shelf-support. No. 1,387,950; Aug. 16; v. 289; p. 518.

Spieler, Heinrich J. (See De Montmollin, G., and Spieler.)

Spiker, Harry E., assignor of one-half to J. W. Chapman and one-half to W. H. Brown, Chicago, Ill. Nut-blanching machine. No. 1,387,562; Aug. 16; v. 289; p. 441.

Spire, Sheldon S., assignor to Syracuse Chilled Plow Company, Syracuse, N. Y. Sulky-plow. No. 1,387,810; Aug. 16; v. 289; p. 491.

Splitdorf Electrical Company. (See Mason, Charles T., assignor.)

Srofe, Jesse, Cincinnati, Ohio. Box-blank. No. 1,388,006; Aug. 16; v. 289; p. 529.

Standard Oil Company. (See Robinson, Clarence I., assignor.)

Standard Oil Company (of New Jersey). (See Cobb, Ernest B., assignor.)

Standing, James T., St. Louis, Mo. Advertising-puzzle. No. 1,387,951; Aug. 16; v. 289; p. 518.

States, Louis A., Gastonia, N. C. Grate. No. 1,387,871; Aug. 16; v. 289; p. 503.

Stawicki, Vincent, Milwaukee, Wis. Automobile-jack. No. 1,387,563; Aug. 16; v. 289; p. 441.

Stearns, Roswell H. (See Bethke, J. P., and Stearns.)

Stein, Edward A. (See Stein, William L., assignor.)

Stein, William L., assignor of one-half to E. A. Stein, New York, N. Y. Changeable exhibitor. No. 1,387,625; Aug. 16; v. 289; p. 454.

Steinbrecher, John, Chicago, Ill. Shank-piece and metatarsal-arch support. No. 1,387,952; Aug. 16; v. 289; p. 518.

Stephens, William A., Oakland, Calif. Automatic tire-signal. No. 1,388,007; Aug. 16; v. 289; p. 529.

Stevens, Sidney, Millinocket, Me. Parasol. No. 1,387,740; Aug. 16; v. 289; p. 477.

Stewart, Carlton D. (See Down, S. G., and Stewart.)

Stewart, Norman G., Flint, Mich. Cigarette-case. No. 1,388,078; Aug. 16; v. 289; p. 542.

Stewart-Warner Speedometer Corporation. (See Whittington, Frederik G., assignor.)

Stockwell, Austin F., Los Angeles, Calif. Antiderailing railway-track. No. 1,387,871; Aug. 16; v. 289; p. 503.

Stokes, John S. (See Novotny, Emil E., assignor.)

Stone, Charles H., Freeport, Ill. Rotary toothbrush. No. 1,388,074; Aug. 16; v. 289; p. 542.

Stoner, Peter W., Pasadena, Calif. Exposure-meter and finder for cameras. No. 1,387,811; Aug. 16; v. 289; p. 491.

Strite, Charles P., Minneapolis, Minn. Bread-toaster. No. 1,387,670; Aug. 16; v. 289; p. 462.

Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)

Strong, Chester F., New York, N. Y. Electric generating system. No. 1,387,741; Aug. 16; v. 289; p. 477.

Strong, Chester F., New York, N. Y. Electric generating system. No. 1,387,742; Aug. 16; v. 289; p. 477.

Struebing, Herman W., Milwaukee, Wis. Window-clamp. No. 1,387,564; Aug. 16; v. 289; p. 441.

Sturgis Steel Go-Cart Co. (See Lindberg, Charles A., assignor.)

Sumner, James I., assignor of one-half to A. G. Schimming, Minneapolis, Minn. Shock-absorber. No. 1,387,812; Aug. 16; v. 289; p. 492.

Sundstrand, Gustaf D., assignor to Rockford Tool Company, Rockford, Ill. Cone-pulley head-stock. No. 1,387,519; Aug. 16; v. 289; p. 422.

Superheater Company, The. (See Broido, Benjamin, assignor.)

Sutton, Arthur D., Pittsburgh, Pa. Furnace. No. 1,388,075; Aug. 16; v. 289; p. 542.

Swan, Loran R., Bennington, Vt. Loom-picker. No. 1,387,913; Aug. 16; v. 289; p. 511.

Swanson, Andrew W., Seattle, Wash. Parking-device attachment for automobiles. No. 1,387,626; Aug. 16; v. 289; p. 454.

Swift, Willard E., Worcester, Mass. Hot-water bottle. No. 1,387,953; Aug. 16; v. 289; p. 519.

Syracuse Chilled Plow Company. (See Spire, Sheldon S., assignor.)

Tangeman, Julian J. (See Ritzel, Conrad, assignor.)

Taylor, Blake, Roanoke, Va. Body for trucks. No. 1,388,008; Aug. 16; v. 289; p. 530.

Taylor, Jules B., Toledo, Ohio. Gearing. No. 1,387,813; Aug. 16; v. 289; p. 492.

Ten Bosch, Abraham, The Hague, Netherlands. Wall-plug. No. 1,387,814; Aug. 16; v. 289; p. 492.

Terry, George O., assignor to Economy Shoe Machinery Company, Minneapolis, Minn. Edge-scouring roll. No. 1,387,627; Aug. 16; v. 289; p. 454.

Terry, George O., assignor to Economy Shoe Machinery Company, Minneapolis, Minn. Heel-scouring roll. No. 1,387,628; Aug. 16; v. 289; p. 454.

Therkelsen, Cachot, *et al.* (See Gruss, George H., assignor.)

Thomas, Hanson, and J. Dahlstrom, Pittsburgh, Pa. Feed-regulator for powdered coal. No. 1,388,129; Aug. 16; v. 289; p. 553.

Thomas, Herbert A. (See Ellis, E. A., and Thomas.)

Thomas, William B., Jr., Philadelphia, Pa. Container. No. 1,387,520; Aug. 16; v. 289; p. 433.

Thompson, Albert R., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Exhaust-box. No. 1,387,629; Aug. 16; v. 289; p. 455.

Thompson, Frederick W., deceased, by S. P. Thompson, administratrix, New York, N. Y. Amusement apparatus. No. 1,388,130; Aug. 16; v. 289; p. 553.

Thompson, Harry R. (See Kunke, E. G., and Thompson.)

Thompson, Herbert A., North Shields, assignor of two-thirds to C. Zulber, London, and L. E. Smith, South Shields, England. Furnace-front. No. 1,388,077; Aug. 16; v. 289; p. 543.

Thompson, James L., Allen, Okla. Gate-latch. No. 1,387,914; Aug. 16; v. 289; p. 511.

Thompson, Selesse P., administratrix. (See Thompson, Frederick W.)

Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Radiant heater for electric ranges. No. 1,387,521; Aug. 16; v. 289; p. 422.

Thornton, Frank, Jr., Mansfield, Ohio, assignor to Westinghouse Electric Products Company. Automobile-engine heater. No. 1,387,522; Aug. 16; v. 289; p. 433.

Thornton, John N., New Britain, Conn. Washing-machine. No. 1,387,630; Aug. 16; v. 289; p. 455.

Thorp, Franklin and H. T., Whitefield, near Manchester, England. Injector for gas-burners. No. 1,387,565; Aug. 16; v. 289; p. 442.

Thorp, Harvey T. (See Thorp, Franklin and H. T.)

Thurston, Frank A., *et al.* (See O'Leary, Edward J., assignor.)

Tibbles, Percy T., London, England. Method of and means for producing optical illusions. No. 1,387,631; Aug. 16; v. 289; p. 455.

Tidmarsh, Harry E., assignor of one-half to Union Iron Works, Bangor, Me. Pulp or paper machine. No. 1,387,954; Aug. 16; v. 289; p. 516.

Towle, George M., Middletown, R. I. Sanding device. No. 1,387,815; Aug. 16; v. 289; p. 492.

Tracy, Caroline E., Detroit, Mich. Curtain-stretcher. No. 1,388,078; Aug. 16; v. 289; p. 543.

Tracy, James W., Smithland, Ky. Wrench. No. 1,388,131; Aug. 16; v. 289; p. 553.

Trew, George B., Shreveport, La., assignor of one-half to S. A. Guiberson, Jr., Los Angeles, Calif. Pipe-wrench. No. 1,388,079; Aug. 16; v. 289; p. 543.

Turley, Thomas B. (See Waggaman, W. H., and Turley.)

Turner, Robert. (See Bowed, E. W., and Turner.)

Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)

Union Iron Works. (See Tidmarsh, Harry E., assignor.)

Union Steam Pump Company. (See Smith, Karl D., assignor.)

United Shoe Machinery Corporation. (See Casgrain, Louis A., assignor.)

United Shoe Machinery Corporation. (See Davenport, Herman A., assignor.)

United Shoe Machinery Corporation. (See Eaton, Harrison H., assignor.)

United Shoe Machinery Corporation. (See Meyer, William C., assignor.)

United Shoe Machinery Corporation. (See Pope, Joseph H., assignor.)

United Shoe Machinery Corporation. (See Smith, Willard A., assignor.)

United States Air Compressor Company, The. (See Bacher, Rollin L., assignor.)

Universal Tobacco Machine Company. (See Jackson, Graham H., assignor.)

Vacuum Glass Machine Company. (See Rohland, Charles A., assignor.)

Valle-Kimes Company, The. (See Kimes, Hugh W., assignor.)

Vales, Edward J., and J. T. Bishop, Augusta, Ga. Pressure mechanism for roll-stands. No. 1,387,816; Aug. 16; v. 289; p. 492.

Van Hove, Desire H., assignor to Reynolds Spring Company, Jackson, Mich. Spring structure. No. 1,387,743; Aug. 16; v. 289; p. 477.

Van Hove, Desire H., assignor to The Reynolds Spring Company, Jackson, Mich. Spring structure. No. 1,387,744; Aug. 16; v. 289; p. 478.

Van Trump, William R., Philadelphia, Pa. Engine-overhauling stand. No. 1,387,566; Aug. 16; v. 289; p. 442.

Van Valkenburg, L. D. (See Halket, William, assignor.)

Vaughan, Charles F., London, England. Lamp and lamp-holder. No. 1,387,523; Aug. 16; v. 289; p. 433.

Velox Vise Co. (See Fulton, Edwin W., assignor.)

Vinson, William A., Baltimore, Md. Stringed instrument. No. 1,387,567; Aug. 16; v. 289; p. 442.

Waggaman, William H., and T. B. Turley, Washington, D. C. Apparatus for the manufacture of phosphoric acid and compounds of the same. No. 1,387,817; Aug. 16; v. 289; p. 493.

Wahlberg, Nils J. A., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulator trolley-conductor clamp. No. 1,387,524; Aug. 16; v. 289; p. 433.

Walker, William H., Pine Bluff, Ark., assignor to Arkansas Short Leaf Lumber Company, Kansas City, Mo. Roughening the side edges of flooring-boards and the like. No. 1,387,875; Aug. 16; v. 289; p. 504.

Walp, Charles F., A. J. Hicks, and F. O. Reedy, Berwick, Pa. Suspension-hook. No. 1,388,132; Aug. 16; v. 289; p. 554.

Walrus Manufacturing Company. (See Gray, Leonard G., assignor.)

Walton, Frank S., and R. Schultz, New York, N. Y. Display-rack. No. 1,387,745; Aug. 16; v. 289; p. 478.

Walz, Carl F., Minneapolis, Minn., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,388,009; Aug. 16; v. 289; p. 530.

Warner, Bruce M., Jackson, Mich. Tire-holder.. No. 1,387,525; Aug. 16; v. 289; p. 434.

Warner, Edgar E., Milwaukee, Wis. Buffer for motor-driven vehicles. No. 1,387,874; Aug. 16; v. 289; p. 504.

Waterhouse, Charles N., Muncie, Ind. Wood wheel. No. 1,387,568; Aug. 16; v. 289; p. 442.

Watson, Edgar, Chicago, Ill. Display-rack. No. 1,388,010; Aug. 16; v. 289; p. 530.

Watson, George W., London, and N. B. Ludlow, Worcester, England. Pressed-steel detachable wheel. No. 1,387,632; Aug. 16; v. 289; p. 455.

Watt, Elwyn M., Summerton, S. C. Composition. No. 1,387,569; Aug. 16; v. 289; p. 442.

Weaver, Milburn C. (See Denson, Heard D., assignor.)

Webb, Robert D., Minden, La. Cotton-compress. No. 1,387,633; Aug. 16; v. 289; p. 455.

Webb, William F., assignor of one-half to E. A. Orr, Garden City, Kans. Engine-stopping device. No. 1,387,746; Aug. 16; v. 289; p. 478.

Wecht, Charles L., Logansport, Ind. Toy wheelbarrow. No. 1,387,570; Aug. 16; v. 289; p. 442.

Wege, Peter M., Grand Rapids, Mich., assignor to Invincible Metal Office Furniture Company, Manitowoc, Wis. Safety-deposit appliance. No. 1,387,818; Aug. 16; v. 289; p. 493.

Weinberger, Benjamin, assignor to Marx & Haas Clothing Co., St. Louis, Mo. Shaft-hanger. No. 1,387,571; Aug. 16; v. 289; p. 443.

Weinberger, Benjamin, assignor to Marx & Haas Clothing Co., St. Louis, Mo. Swatch. No. 1,387,572; Aug. 16; v. 289; p. 443.

Weiss, Fred, Woodstock, Ill. Rim-tool. No. 1,387,526; Aug. 16; v. 289; p. 434.

Welbon, John, Utica, N. Y. Card-index. No. 1,388,080; Aug. 16; v. 289; p. 543.

Wellensiek, Adolph H., Stockton, Calif. Excavating-machine. No. 1,387,875; Aug. 16; v. 289; p. 504.

Werner, Arthur M., San Jacinto, Calif. Electric water-heater. No. 1,387,819; Aug. 16; v. 289; p. 493.

West, Frank P., Chicago, Ill. Metallic cement. No. 1,388,011; Aug. 16; v. 289; p. 530.

Western Electric Company. (See Gauthier, Ernest, assignor.)

Western Electric Company. (See Pugh, H. W., and Wotton, assignors.)

Westinghouse Electric and Manufacturing Company. (See Barnboldt, Harold L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Candee, Andrew H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Cook, Joel B., assignor.)

Westinghouse Electric and Manufacturing Company. (See Coulson, John, assignor.)

Westinghouse Electric & Manufacturing Company. (See De Camp, Ray E., assignor.)

Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Hansen, Klaus L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Johnston, Harvey H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Keith, Harold L., assignor.)

Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.)

Westinghouse Electric and Manufacturing Company. (See Lewis, Harry A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Mardis, Paul L., assignor.)

Westinghouse Electric & Manufacturing Company. (See Nottage, Stanley G., assignor.)

Westinghouse Electric Products Company. (See Thornton, Frank, Jr., assignor.)

Westinghouse Electric & Manufacturing Company. (See Wahlberg, Nils J. A., assignor.)

Wheeler, Willoughby M., Melbourne, Victoria, Australia, assignor of one-half to Ozmo Oil Refining Company, San Francisco, Calif. Lowering the boiling and flashing point of kerosene and like hydrocarbon oils. No. 1,387,876; Aug. 16; v. 289; p. 504.

Wherry, James B., Des Moines, Iowa., assignor to The Refinite Company. Manufacturing water-softening material. No. 1,388,133; Aug. 16; v. 289; p. 554.

White, S. S., Dental Manufacturing Company, The. (See Hawksworth, F. G., and Ekiof, assignors.)

Whiteman, George W., Philadelphia, Pa., assignor to The Rail Joint Company, New York, N. Y. Rail-joint for U-rail sections. No. 1,388,134; Aug. 16; v. 289; p. 554.

Whiteman, George W., Philadelphia, Pa., assignor to The Rail Joint Company, New York, N. Y. Tie-plate mounting for U-rail sections. No. 1,388,135; Aug. 16; v. 289; p. 554.

Whitney, Leon F., Brooklyn, assignor to National Farm Equipment Company, Inc., New York, N. Y. Apparatus for distributing fertilizers, insecticides, and fungicides. No. 1,388,136; Aug. 16; v. 289; p. 554.

Whitt, Joseph E., Italy, Tex. Cotton-tramper. No. 1,387,747; Aug. 16; v. 289; p. 478.

Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Automobile-bumper. No. 1,387,527; Aug. 16; v. 289; p. 434.

Wiberg, Oscar A., and G. Karlsson, Flispong, Sweden. Regulating mechanism for turbo-mechanical-machine plants. No. 1,387,915; Aug. 16; v. 289; p. 511.

Wilburn, Byard C., Apache, Okla. Flood-gate on streams. No. 1,387,955; Aug. 16; v. 289; p. 519.

Wideman, Sadie, Niles, Mich. Car-signal. No. 1,387,671; Aug. 16; v. 289; p. 463.

Wilcox, Howard, Woodstock, N. Y. Motor-vehicle, trailed power. No. 1,387,820; Aug. 16; v. 289; p. 493.

Wilkinson, David A., Overland Park, Mo. Vise. No. 1,387,821; Aug. 16; v. 289; p. 493.

Wilkinson, William J. (See Beets, Nicolaas, assignor.)

Willcox, Frederick H., assignor to Freyn, Brassert & Company, Chicago, Ill. Chimney for hot-blast stoves. No. 1,387,528; Aug. 16; v. 289; p. 434.

Willie, Walter O., Waterloo, Iowa. Tool-holder. No. 1,387,672; Aug. 16; v. 289; p. 463.

Willey, Martin T., Lead, S. D. Valve-stem attachment. No. 1,388,137; Aug. 16; v. 289; p. 554.

William Hood Dunwoody Industrial Institute, The. (See Davis, William R., assignor.)

Williams, Charles H., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake-beam release and support. No. 1,387,956; Aug. 16; v. 289; p. 519.

Williams, Francis, Adelaide, South Australia, Australia. Back-evaporator. No. 1,388,152; Aug. 16; v. 289; p. 557.

Williams, Francis, Adelaide, South Australia, Australia. Heating device for evaporators, particularly evaporators for drying fruit. No. 1,388,153; Aug. 16; v. 289; p. 557.

Williams, Haydn O., Sperling, and W. J. Miller, Vancouver, British Columbia, Canada. Logging-car. No. 1,387,822; Aug. 16; v. 289; p. 494.

Williams, William E., Chicago, Ill. Cast-steel-spoked wheel. No. 1,387,529; Aug. 16; v. 289; p. 434.

Wilson, John J., McKeesport, Pa., assignor to Anti-Corrosion Engineering Company, New York, N. Y. Apparatus for removing gases from water. No. 1,387,748; Aug. 16; v. 289; p. 479.

Wilson, Joseph F., Lawrence, Mass. Lock control for emergency-exit doors. No. 1,387,573; Aug. 16; v. 289; p. 443.

Wilson, William C., Jr. (See Schooley, E. A., and Wilson.)

Wioland, Aloyse, Hericourt, France. Dyeing and bleaching apparatus. No. 1,388,081; Aug. 16; v. 289; p. 543.

Wirth, Antone M., assignor of one-half to F. J. Mackey, Stockton, Calif. Knife-protector for shoe-stitching machines. No. 1,387,673; Aug. 16; v. 289; p. 463.

Witty, Peter, Evanston, Ill. Candy-mold. No. 1,387,574; Aug. 16; v. 289; p. 443.

Wolfeld, Isador, and A. Kohl, Cleveland, Ohio. Machine for setting snap-fasteners on garments. No. 1,387,530; Aug. 16; v. 289; p. 435.

Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine. No. 1,387,575; Aug. 16; v. 289; p. 444.

Wolff, Oscar M., assignor to B. B. Hanak Company, Chicago, Ill. Meat-compresser. No. 1,388,082; Aug. 16; v. 289; p. 544.

Wood, Charles W., and E. C. Kelly, Hampton, Va. Hydraulic wheel-puller. No. 1,387,674; Aug. 16; v. 289; p. 463.

Wood, Frank W., Montclair, N. J., assignor to Chas. Cory & Son, Incorporated, New York, N. Y. Slack-wire compensator for ship's telegraphs. No. 1,387,823; Aug. 16; v. 289; p. 494.

Woolley, Ernest L., Providence, R. I. Oil-burner. No. 1,387,877; Aug. 16; v. 289; p. 504.

Workman, Author D., Knoxville, Tenn. Culinary implement. No. 1,388,083; Aug. 16; v. 289; p. 544.

Worobow, David, Chicago, Ill. Foldable pushmobile. No. 1,387,675; Aug. 16; v. 289; p. 463.

Worth, Lewis A., Merton, Wis. Snow-plow. No. 1,387,576; Aug. 16; v. 289; p. 444.

Wotton, James A. (See Pugh, H. W., and Wotton.)

Wraith, George A., Zanesville, Ohio. Game apparatus. No. 1,387,577; Aug. 16; v. 289; p. 444.

Wright, Philip I., Oakland, Calif. Steam-gage. No. 1,387,676; Aug. 16; v. 289; p. 464.

Wyskocil, George. (See Dimock, R. H., Sheaver, and Wyskocil.)

Yost, Emil E., St. Paul, Minn. Power-driven lawn-mower. No. 1,387,578; Aug. 16; v. 289; p. 444.

Young, Charley W., San Jose, Calif. Protecting device for fruit-jars and the like. No. 1,387,749; Aug. 16; v. 289; p. 479.

Zeidler, Frederick W., Jersey City, and C. Halpern, Newark, N. J. Canoe. No. 1,387,957; Aug. 16; v. 289; p. 519.

Zenishek, John, Solon, Iowa. Auto-light-controlling device. No. 1,387,579; Aug. 16; v. 289; p. 444.

Zukowski, John, Hamtramck, Mich. Stove. No. 1,387,824; Aug. 16; v. 289; p. 494.

Zulch, William, Cobleskill, N. Y. Silo-hoop tightener. No. 1,388,012; Aug. 16; v. 289; p. 530.

Zulver, Cornelis, *et al.* (See Thompson, Herbert A., assignor.)

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. P. W. Paper Company, Albany, N. Y. Toilet-paper, paper napkins and towels. No. 145,582; Aug. 16; v. 289; p. 601.
Abbott Laboratories, The, Chicago, Ill. Chemical sterilizer, deodorizer, and cleanser. No. 145,589; Aug. 16; v. 289; p. 591.
Alaska Salmon & Herring Packers, The, Seattle, Wash. Canned salmon and herring. No. 145,590; Aug. 16; v. 289; p. 591.
Allen Filter Company, The, Toledo, Ohio. Diatomaceous filters. No. 145,581; Aug. 16; v. 289; p. 601.
Allen, Mark W., & Co., Detroit, Mich. Perfume, toilet water, face and talcum powders, &c. No. 145,591; Aug. 16; v. 289; p. 591.
Amalgamated Leather Companies, Inc., Wilmington, Del.; Philadelphia, Pa.; New York and Rochester, N. Y.; Boston, Mass.; Chicago, Ill., and St. Louis, Mo. Leather. No. 145,592; Aug. 16; v. 289; p. 591.
American Dry Goods Company, of New York, New York, N. Y. Silk stockings. No. 145,593; Aug. 16; v. 289; p. 591.
American Dry Goods Company, of New York, New York, N. Y. Hosiery. No. 145,594; Aug. 16; v. 289; p. 591.
American Hard Rubber Company, New York, N. Y. Corset bones and stays. No. 145,595; Aug. 16; v. 289; p. 591.
American Lady Corset Company, Detroit, Mich. Corsets and brassières. No. 145,596; Aug. 16; v. 289; p. 591.
American Trading Company, New York, N. Y. Yarns. No. 145,597; Aug. 16; v. 289; p. 591.
Andrus-Scofield Co., The, Columbus, Ohio. Coffee, tea, spices, salted peanuts, peanut-butter. No. 145,598; Aug. 16; v. 289; p. 591.
Austen Cologne Company, The, New York, N. Y. Salve for sores, cuts, and piles. No. 145,599; Aug. 16; v. 289; p. 591.
B. & C. Mfg. Co., St. Louis Park, Minn. Non-intoxicating, maltless beverage. No. 145,603; Aug. 16; v. 289; p. 591.
Babcock, A. P., Company, New York, N. Y. Talcum powder. No. 145,600; Aug. 16; v. 289; p. 591.
Bagley, Raleigh A., Suffolk, Va. Medicinal lozenge. No. 145,601; Aug. 16; v. 289; p. 591.
Barbour, J. E., Company, Paterson, N. J. Yarns. No. 145,602; Aug. 16; v. 289; p. 591.
Beacon Falls Rubber Shoe Company, The, Beacon Falls, Conn. Hosiery. No. 145,604; Aug. 16; v. 289; p. 591.
Beatrice Creamery Company, Chicago, Ill. Ice-cream. No. 145,605; Aug. 16; v. 289; p. 591.
Beede, Frank A., Orange, Vt. Medicine for the treatment of cholera, blackhead, &c., in poultry. No. 145,606; Aug. 16; v. 289; p. 591.
Bernson, Boris, Cambridge, Mass. Men's, women's, and children's coats. No. 145,607; Aug. 16; v. 289; p. 591.
Birkholz, Joseph A., Orange, N. J. Building wall and partition panels made of concrete, &c. No. 145,608; Aug. 16; v. 289; p. 591.
Black Cat Textiles Company, (now by change of name The Alleh A. Company,) Kenosha, Wis. Knit hosiery. No. 145,609; Aug. 16; v. 289; p. 591.
Blanco, Jose M., New York, N. Y. Toilet preparations. No. 145,610; Aug. 16; v. 289; p. 591.
Blatz, Val, Brewing Company, Milwaukee, Wis. Certain beverages, malt extracts. No. 145,611; Aug. 16; v. 289; p. 591.
Blatz, Val, Brewing Company, Milwaukee, Wis. Certain beverages, malt extracts, near beer, &c. No. 145,846; Aug. 16; v. 289; p. 599.
Blendinol Co., The, Worcester, Mass. Certain toilet preparations, perfumes, tooth-paste, &c. No. 145,612; Aug. 16; v. 289; p. 591.
Bosisto, J., & Co. Proprietary Limited, Melbourne, Victoria, Australia. Eucalyptus-oil. No. 145,613; Aug. 16; v. 289; p. 591.
Bradas & Gheens, Louisville, Ky. Chocolates. No. 145,614; Aug. 16; v. 289; p. 591.
Brelsford, Edward C., Wilkes-Barre, Pa. Certain pharmaceutical preparations. No. 145,615; Aug. 16; v. 289; p. 591.
Breyer Ice Cream Company, Philadelphia, Pa. Ice-cream. No. 145,616; Aug. 16; v. 289; p. 591.
Broadway Cycle Co., Inc., Philadelphia, Pa. Bicyles, tricycles, velocipedes, &c. No. 145,617; Aug. 16; v. 289; p. 592.
Brockton Moccasin Co. Inc., Brockton, Mass. Moccasins. No. 145,618; Aug. 16; v. 289; p. 592.
Brooklyn Overall Company, Brooklyn, N. Y. Overalls. No. 145,619; Aug. 16; v. 289; p. 592.
Burkman, George, Omaha, Nebr. Leather shoes. No. 145,620; Aug. 16; v. 289; p. 592.
Campbell, John, & Co., New York, N. Y. Coal-tar dyes. No. 145,621; Aug. 16; v. 289; p. 592.
Carter Carbureter Company, St. Louis, Mo. Gaskets of fibrous material. No. 145,622; Aug. 16; v. 289; p. 592.
Cawley, Chester A., Somerville, N. J. Non-alcoholic fruit beverage. No. 145,623; Aug. 16; v. 289; p. 592.

Challenge High Vacuum Company, Chicago, Ill. Thermally-insulated containers for foods and liquids. No. 145,624; Aug. 16; v. 289; p. 592.
Chandless & Co. Inc., New York and Millbrook, N. Y. Raw or partly prepared materials. No. 145,625; Aug. 16; v. 289; p. 592.
Chemical Works Flora, Dubendorf, Switzerland. Natural and synthetic oils and essences suitable for the production of perfumes. No. 145,883; Aug. 16; v. 289; p. 601.
Cheney & Co., New York, N. Y. Stucco and stucco materials. No. 145,626; Aug. 16; v. 289; p. 592.
Chicago Belting Company, Chicago, Ill. Leather belting. No. 145,627; Aug. 16; v. 289; p. 592.
Chipmen Knitting Mills, Easton, Pa. Hosiery for men, women, and children. No. 145,628; Aug. 16; v. 289; p. 592.
Chism, John S., Wichita, Kans. Salve for relief of inflammations, headache, catarrh, &c. No. 145,629; Aug. 16; v. 289; p. 592.
Clements, Fred W., Rochester, N. Y. Palliative for pyorrhea alveolaris or Riggs' disease. No. 145,630; Aug. 16; v. 289; p. 592.
Coal Tar Products, Inc., Chicago, Ill. Disinfectant, and particularly a solidified soluble coa-tar-derivative disinfectant. No. 145,631; Aug. 16; v. 289; p. 592.
Cohen, Goldman & Co., Inc., New York, N. Y. Articles of clothing. No. 145,632; Aug. 16; v. 289; p. 592.
Cohen, Philip, Atlanta, Ga. Medicinal preparations for the treatment of indigestion. No. 145,634; Aug. 16; v. 289; p. 592.
Cohn Hall Marx Co., New York, N. Y. Cotton voile in the piece. No. 145,633; Aug. 16; v. 289; p. 592.
Colgate & Company, Jersey City, N. J. Soaps. No. 145,635; Aug. 16; v. 289; p. 592.
Colorado Milling & Elevator Company, The, Denver and Eaton, Colo. Wheat-flour. No. 145,636; Aug. 16; v. 289; p. 592.
Columbia Motors Company, The, Detroit, Mich. Motor-vehicles. No. 145,637; Aug. 16; v. 289; p. 592.
Columbia Ribbon & Carbon Mfg. Co., New York, N. Y. Typewriter-ribbons. No. 145,884; Aug. 16; v. 289; p. 601.
Cook, Charles K., Incorporated, Camden, N. J. Pocket-books, card and ticket cases, handbags, portfolios, &c. No. 145,638; Aug. 16; v. 289; p. 592.
Cook, Geo. C., & Co., Inc., New York, N. Y. Remedy for certain ailments. No. 145,639; Aug. 16; v. 289; p. 592.
Cooper, Coate & Casey Dry Goods Co., Los Angeles, Calif. Misses' and children's dresses. No. 145,640; Aug. 16; v. 289; p. 592.
Crocker-McElwain Company, Holyoke, Mass. Certain printers' blankets. No. 145,642; Aug. 16; v. 289; p. 592.
Crandall Pettee Co., The, New York, N. Y. Prepared cocoa. No. 145,885; Aug. 16; v. 289; p. 601.
Croft-Stanard Company, Inc., Huntington, W. Va. Certain articles of clothing. No. 145,643; Apr. 16; v. 289; p. 592.
Cross, Harry E., Rockton, Ill. Pleasure motor-cars. Nos. 145,644–5; Aug. 16; v. 289; p. 592.
Curdolac Food Co., Waukesha, Wis. Diabetic flour. No. 145,646; Aug. 16; v. 289; p. 592.
Dancig, Edward, New York, N. Y. Fireproof fabrics for lamp-shades. No. 145,650; Aug. 16; v. 289; p. 593.
Davis, Michael J., Brooklyn, N. Y. Malt-syrup used in making malt beverages. No. 145,647; Aug. 16; v. 289; p. 592.
Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Tires. No. 145,648; Aug. 16; v. 289; p. 592.
Dearborn Chemical Company, Chicago, Ill. Boiler compound for prevention of deleterious action of waters when used in steam-boilers. No. 145,649; Aug. 16; v. 289; p. 592.
Doherty Phonograph Company, Inc., Chicago, Ill. Phonographs and parts therefor and records and needles. No. 145,886; Aug. 16; v. 289; p. 601.
Donahey, William, Chicago, Ill. Newspaper-sections. No. 145,651; Aug. 16; v. 289; p. 593.
Dover Manufacturing Company, The, Dover, Ohio. Electric sadirons. No. 145,887; Aug. 16; v. 287; p. 601.
Druggists Wholesale Supply Corporation, San Francisco, Calif. Preparations for medicinal purposes. No. 145,652; Aug. 16; v. 289; p. 593.
Du Pont, E. I., de Nemours & Company, Wilmington, Del. Dyestuffs. No. 145,655; Aug. 16; v. 289; p. 593.
Chicago Belting Company, Chicago, Ill. Leather belting. Paint-oils. No. 145,888; Aug. 16; v. 289; p. 602.
Dultmeier Manufacturing Company, Manning, Iowa. Wagon-hounds. No. 145,654; Aug. 16; v. 289; p. 593.
Durwyllan Co., Paterson, N. J. Clutch-facings and brake-linings. No. 145,653; Aug. 16; v. 289; p. 593.

Edwards & Crist Company, Chicago, Ill. Motorcycles and bicycles. No. 145,656; Aug. 16; v. 289; p. 593.
El Comercio Publishing Corporation, New York, N. Y. Monthly publication. No. 145,657; Aug. 16; v. 289; p. 593.
Emporium-World Millinery Co., Chicago, Ill. Hats for female wear. Nos. 145,658–9; Aug. 16; v. 289; p. 593.
Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies. No. 145,660; Aug. 16; v. 289; p. 593.
Fenner, Harvey A., Philadelphia, Pa., assignor, by mesne assignments, to Fenner Drug Company, New York, N. Y. Remedy for congested liver, constipation, and corpulency. No. 145,662; Aug. 16; v. 289; p. 593.
Fisher Flouring Mills Company, Seattle, Wash. Wheat-flour. No. 145,665; Aug. 16; v. 289; p. 593.
Fleet Photo Service, Washington, D. C. Photographic prints. No. 145,666; Aug. 16; v. 289; p. 593.
Flex-Or-Crete Corporation, Boston, Mass. Autosolidifying structural compositions composed of cement, &c. No. 145,667; Aug. 16; v. 289; p. 593.
Frankel, Albert H., New York, N. Y. Malt-syrup for making malt beverages. No. 145,668; Aug. 16; v. 289; p. 593.
Franklin, N. A., Mrs., Houston, Tex. Hair tonic and grower, shampoo, pressing-oil, and temple-grower. No. 145,670; Aug. 16; v. 289; p. 593.
Freck, Harry M., Columbus, Ohio. Laxative and liver pills. No. 145,669; Aug. 16; v. 289; p. 593.
Fuchs, Arnold, New York, N. Y. Certain articles of clothing. No. 145,671; Aug. 16; v. 289; p. 593.
Garrity, L. M., & Co. Inc., Boston, Mass. Hair-waving fluids. No. 145,672; Aug. 16; v. 289; p. 593.
Georgia Marble Company, The, Tate, Ga. Finished marble, marble cut to size, and cut stone. No. 145,673; Aug. 16; v. 289; p. 593.
Georgia Marble Company, The, Tate, Ga. Marble cut to size, finished marble, and cut stone. No. 145,674; Aug. 16; v. 289; p. 593.
Giachini Candy Co., Chicago, Ill. Candies. No. 145,889; Aug. 16; v. 289; p. 602.
Gilbert, A. C., Company, The, New Haven, Conn. Certain toys. No. 145,675; Aug. 16; v. 289; p. 593.
Globe Grocery Stores, Inc., Brooklyn, N. Y. Certain chemical and pharmaceutical preparations. No. 145,681; Aug. 16; v. 289; p. 593.
Good, Geo. S., Fire Brick Co., Patton, Pa. Fire-bricks and paving-blocks. No. 145,676; Aug. 16; v. 289; p. 593.
Goodenuf Milling & Feed Co., Minneapolis, Minn. Stock and poultry food. No. 145,677; Aug. 16; v. 289; p. 593.
Grab, O. F., & Co., New York, N. Y. Ladies' shirtwaists and blouses. No. 145,678; Aug. 16; v. 289; p. 593.
Grady, John F., Chicago, Ill. Antiseptic cream for use after shaving. No. 145,679; Aug. 16; v. 289; p. 593.
Grawcock, Oscar D., Churubusco, Ind. Hog-tonic. No. 145,680; Aug. 16; v. 289; p. 593.
Groff Paper Company, Minneapolis, Minn. Paper napkins. No. 145,890; Aug. 16; v. 289; p. 602.
Hall, Hartwell & Co., Troy, N. Y. Men's and boys' union-suits, undershirts, and underdrawers. No. 145,682; Aug. 16; v. 289; p. 593.
Hand Knit Hosiery Co., Sheboygan, Wis. Worsted khaki hose and sweaters for boys. No. 145,683; Aug. 16; v. 289; p. 594.
Hansen, A. L., Mfg. Co., Chicago, Ill. Acetylene-lamps. No. 145,684; Aug. 16; v. 289; p. 594.
Harrington, George W., New York, N. Y. Molasses and malt. No. 145,685; Aug. 16; v. 289; p. 594.
Harris, D. P., Hardware & Manufacturing Co., Inc., New York, N. Y. Bicycles. Nos. 145,686–7; Aug. 16; v. 289; p. 594.
Haworth, Richard and Company, Limited, Manchester, England. Articles of clothing. No. 145,797; Aug. 16; v. 289; p. 597.
Haymore, J. Baxter, Macon, N. C. Antiseptic solution. No. 145,688; Aug. 16; v. 289; p. 594.
Healy, A. Edward, Brooklyn, N. Y. Local anesthetic. No. 145,689; Aug. 16; v. 289; p. 594.
Highway Iron Products Co., Ligonier, Ind. Metal culverts. No. 145,690; Aug. 16; v. 289; p. 594.
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Holland, Abraham D., Chicago, Ill. Medicinal preparation used as a remedy for coughs and colds. No. 145,691; Aug. 16; v. 289; p. 594.
Holbrook Co., The, New York, N. Y. Vehicle-bodies. No. 145,891; Aug. 16; v. 289; p. 602.
Holtz, Louis, & Sons, Inc., Rochester, N. Y. Coats, trousers, vests, overcoats, ulsters, raincoats. No. 145,692; Aug. 16; v. 289; p. 594.
Hudson Motor Specialties Company, Philadelphia, Pa. Frame extension for worm-driven trucks and slip-joint propeller-shafts complemental thereto. No. 145,695; Aug. 16; v. 289; p. 594.
Hunstock, H. E., Chemical Co., St. Louis, Mo. Insect-powder. No. 145,694; Aug. 16; v. 289; p. 594.
Hyde, Geo. E., Campbell, Calif. Canned and preserved fruits. No. 145,696; Aug. 16; v. 289; p. 594.
Ideal Cement Stone Company, Omaha, Nebr. Cement blocks. No. 145,697; Aug. 16; v. 289; p. 594.
Imperial Glass Company, Bellaire, Ohio. Certain glassware. No. 145,698; Aug. 16; v. 289; p. 594.
International Coal & Mining Co., East St. Louis, Ill. Bituminous coal. No. 145,699; Aug. 16; v. 289; p. 594.
Irish, Frank C., New York, N. Y. Nail-polish. No. 145,700; Aug. 16; v. 289; p. 594.
Johnson & Sons Manufacturing Chemists, Limited, London, England. Certain chemical substances. No. 145,701; Aug. 16; v. 289; p. 594.
Johnson & Sons Manufacturing Chemists Limited, London, England. Photographic developers. No. 145,702; Aug. 16; v. 289; p. 594.
Jungmann-Landecker Garment Co., St. Louis, Mo. Girls', misses', and ladies' dresses, middy-blouses, skirts, and bloomers. No. 145,703; Aug. 16; v. 289; p. 594.
Kalamazoo Corset Company, Kalamazoo, Mich. Corsets and corset-waists. No. 145,704; Aug. 16; v. 289; p. 594.
Kaufman, Sidney, New York, N. Y. Hosiery. No. 145,705; Aug. 16; v. 289; p. 594.
Keffer, Mary A., New York, N. Y. Hair-tonic. No. 145,706; Aug. 16; v. 289; p. 594.
Keller Knitting Company, The, Cleveland, Ohio. Knitted caps, including skating-caps, stocking-caps. No. 145,787; Aug. 16; v. 289; p. 597.
Kilcoyne, Edward L., Wilkes-Barre, Pa. General medicinal tonic. No. 145,707; Aug. 16; v. 289; p. 594.
Kinney Manufacturing Company, Boston, Mass. Asphalt and tar heaters. Nos. 145,892–3; Aug. 16; v. 289; p. 602.
Kirschenbaum Corporation, The, Baltimore, Md. Publications issued monthly. No. 145,708; Aug. 16; v. 289; p. 594.
Klein, Emanuel, New York, N. Y. Pure fat, salad-oil, and cooking-oil. No. 145,709; Aug. 16; v. 289; p. 594.
Kraft, A. A., Co., The, Los Angeles, Calif. Candy. No. 145,710; Aug. 16; v. 289; p. 594.
Kyle-Gettys Company, Knoxville, Tenn. Hosiery, underwear of knitted fabric, and sweaters. No. 145,711; Aug. 16; v. 289; p. 594.
Lake Hamilton Citrus Growers Association, Lake Hamilton, Fla. Fresh citrus fruits. No. 145,712; Aug. 16; v. 289; p. 594.
Lawrence, A. C., Leather Company, Boston, Mass. Patent-leather. No. 145,713; Aug. 16; v. 289; p. 594.
Leinbach, Harvey D., Wyomissing, Pa. Hosiery. No. 145,714; Aug. 16; v. 289; p. 594.
Lerner Waist Co., The, New York, N. Y. Ladies' blouses. Nos. 145,715–6; Aug. 16; v. 289; pp. 594–5.
Levy, Harris, Omaha, Nebr. Sole-leather. No. 145,717; Aug. 16; v. 289; p. 595.
Levy, Maurice, New York, N. Y. Talcum and face powders, cold-cream, rouge, eyebrow-pencils, &c. No. 145,718; Aug. 16; v. 289; p. 595.
Lewis, Laura B., New York, N. Y. Medicinal preparation for the treatment of rheumatism, &c. No. 145,719; Aug. 16; v. 289; p. 959.
L. G. & S. S. Co., Boston, Mass. Heel-cushions and heel-cushion and instep raisers. No. 145,720; Aug. 16 v. 289; p. 595.
L. G. & S. S. Co., Boston, Mass. Heel-cushions. No. 145,721; Aug. 16; v. 289; p. 595.
L. G. & S. S. Co., Boston, Mass. Insoles. No. 145,722; Aug. 16; v. 289; p. 595.
L. G. & S. S. Co., Boston, Mass. Cushion-insoles. No. 145,723; Aug. 16; v. 289; p. 595.
L. G. & S. S. Co., Boston, Mass. Arch and heel cushions. No. 145,724; Aug. 16; v. 289; p. 595.
L. G. & S. S. Co., Boston, Mass. Lamb's-wool and sateen quilted soles. No. 145,725; Aug. 16; v. 289; p. 595.
L. G. & S. S. Co., Boston, Mass. Heel-lining repairers. No. 145,726; Aug. 16; v. 289; p. 595.
Linker, H. D., Hope, Ark. Poultry food. No. 145,727; Aug. 16; v. 289; p. 595.
Lipson & Adelson, New York, N. Y. Ladies', misses', and children's dresses, waists, coats, suits, and skirts. No. 145,728; Aug. 16; v. 289; p. 595.
Listerated Gum Corporation, New York, N. Y. Chewing-gum and candy. No. 145,729; Aug. 16; v. 289; p. 595.
London, Fannie J., New York, N. Y. Certain toilet preparations. No. 145,730; Aug. 16; v. 289; p. 595.
Lord & Taylor, New York, N. Y. Section of a newspaper issued weekly. No. 145,731; Aug. 16; v. 289; p. 595.
Lorraine Stores Corporation, The, Wilmington, Del., and New York, N. Y. Ladies' blouses. No. 145,732; Aug. 16; v. 289; p. 595.
Luehrmann Hay & Grain Co., St. Louis, Mo. Hen and horse and mule feeds. No. 145,733; Aug. 16; v. 289; p. 595.
Luehrmann Hay & Grain Co., St. Louis, Mo. Wheat-flour. No. 145,734; Aug. 16; v. 289; p. 595.
McKibbin, Driscoll & Dorsey, Inc., St. Paul, Minn. Men's hats. No. 145,736; Aug. 16; v. 289; p. 595.
McLean, Harold E., Jacksonville, Fla. Medicinal preparations used for the relief of blood, liver, kidneys, &c. No. 145,737; Aug. 16; v. 289; p. 595.
Maass & Kemper, Incorporated, Baltimore, Md. Certain articles of clothing. No. 145,738; Aug. 16; v. 289; p. 595.
Madame Stella McAllister, Philadelphia, Pa. Preparation for stimulating the growth of hair. No. 145,735; Aug. 16; v. 289; p. 595.
Marshall Field & Company, Chicago, Ill. Bedspreads. Nos. 145,663–4; Aug. 16; v. 289; p. 593.
Mentholatum Company, The, Wichita, Kans., and Buffalo, N. Y. Insectifuge. No. 145,739; Aug. 16; v. 289; p. 595.
Metcalf, D. D., Greenville, Ala. Overalls, jumper-coats, and unionalls. Nos. 145,740–1; Aug. 16; v. 289; p. 595.

Metz, H. A., Laboratories, Inc., New York, N. Y. Remedy against syphilis, sleeping-sickness, trypanosomiasis, &c. No. 145,742; Aug. 16; v. 289; p. 595.
Meuer, Henry, New York, N. Y. Hair-nets. No. 145,743; Aug. 16; v. 289; p. 595.
Mexican Products Co., Laredo, Tex. Cup-chocolates. No. 145,744; Aug. 16; v. 289; p. 595.
Meyerson-Levine & Company, New York, N. Y. Cravats and neckties. No. 145,745; Aug. 16; v. 289; p. 595.
Miller, I., and Sons, Inc., Brooklyn, N. Y. Shoes for children and infants. No. 145,747; Aug. 16; v. 289; p. 595.
Miller Rubber Company, The, Akron, Ohio. Toy balloons and sponge-rubber balls. No. 145,894; Aug. 16; v. 289; p. 602.
Miner, Est. Henry C., Inc., New York, N. Y. Certain toilet preparations. No. 145,748; Aug. 16; v. 289; p. 595.
Moore, Charles S., Dr., Eldora, Iowa. Worm-destroyer, hog-tonic, and poultry-regulator. No. 145,749; Aug. 16; v. 289; p. 595.
Morand, H. S., Cincinnati, Ohio. Hats for men and women. No. 145,750; Aug. 16; v. 289; p. 596.
Morgan Chemical Corporation, Ogdensburg, N. Y. Insecticides and fungicides, and fungicides for plants. No. 145,751; Aug. 16; v. 289; p. 596.
Munsingwear Corporation, The, Minneapolis, Minn. Hosiery and underwear, such underwear being of knitted and textile fabric. Nos. 145,752–3; Aug. 16; v. 289; p. 596.
National Asbestos Mfg. Co., The, Jersey City, N. J. Shingles and slates made of asbestos and cement. No. 145,754; Aug. 16; v. 289; p. 596.
National Enameling & Stamping Co., Milwaukee, Wis., and Baltimore, Md. Oil-stoves. No. 145,755; Aug. 16; v. 289; p. 596.
National Pharmaceutical Company, Cleveland, Ohio. Toilet preparations. No. 145,756; Aug. 16; v. 289; p. 596.
Nestlé's Food Company, Inc., New York, N. Y. Condensed milk. No. 145,758; Aug. 16; v. 289; p. 596.
Nestlé's Food Company, Inc., New York, N. Y. Malted milk. No. 145,757; Aug. 16; v. 289; p. 596.
Nestlé's Food Company, Inc., New York, N. Y. Sterilised milk. No. 145,759; Aug. 16; v. 289; p. 596.
New Era Motor Corporation, New York, N. Y. Electrical motors. No. 145,760; Aug. 16; v. 289; p. 596.
Niedner's, Chas., Sons Company, Malden, Mass. Fabric fire-hose. No. 145,761; Aug. 16; v. 289; p. 596.
Newark Tortoise Shell Novelty Co., Newark, N. J. Combs, barrettes, and hairpins not of precious metals. No. 145,895; Aug. 16; v. 289; p. 602.
Nilson-Miller Company, Hoboken, N. J. Piston-rings. No. 145,762; Aug. 16; v. 289; p. 596.
Noco Petroleum Company, New York, N. Y. Petroleum jelly. No. 145,763; Aug. 16; v. 289; p. 596.
North St. Paul Casket Company, North St. Paul, Minn. Caskets and coffins. No. 145,764; Aug. 16; v. 289; p. 596.
Norton, Rogers & Hunter, Inc., Seattle, Wash. Hair-restorer, shampoo, and tonic. No. 145,765; Aug. 16; v. 289; p. 596.
Nouquie Company, Chicago, Ill. Skin-lotions. No. 145,766; v. 289; p. 596.
Orr's Zinc White Limited, Widnes and London, England. Zinc-white. No. 145,896; Aug. 16; v. 289; p. 602.
Ortlieb, John A., Reading, Pa. Chemical stain-remover. No. 145,767; Aug. 16; v. 289; p. 596.
Overseas Motor Service Corporation, New York, N. Y. Certain bearings and pumps and air-compressors, grease-guns, &c. No. 145,769; Aug. 16; v. 289; p. 596.
Overton, James H., Quincy, Ill. Waterproof coating for textile fabrics and leather. No. 145,768; Aug. 16; v. 289; p. 596.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 145,770; Aug. 16; v. 289; p. 596.
Paget Manufacturing Company Limited, The, Sydney, New South Wales, Australia. Cleansing composition and soap. No. 145,771; Aug. 16; v. 289; p. 596.
Parish & Bingham Corporation, New York, N. Y., and Cleveland, Ohio. Pressed-steel frames for automobiles. No. 145,772; Aug. 16; v. 289; p. 596.
Paschall, Benjamin S., New York, N. Y. Therapeutic preparation for treatment of tuberculosis. No. 145,773; Aug. 16; v. 289; p. 596.
Patek Brothers, Milwaukee, Wis. Ready-mixed paints. No. 145,897; Aug. 16; v. 289; p. 603.
Patek Brothers, Milwaukee, Wis. Ready-mixed enamel, paste, and concrete paints, lacquers, &c. No. 145,898; Aug. 16; v. 289; p. 603.
Pennington-Crowell Shoe Company, Manchester, N. H. Boots and shoes of leather or leather and rubber in combination. No. 145,774; Aug. 16; v. 289; p. 596.
Perfection Mills, Inc., New York, N. Y. Hosiery and knitted underwear. No. 145,775; Aug. 16; v. 289; p. 596.
Peter Pan Co., The, New York, N. Y. Children's blouses and bloomers. No. 145,776; Aug. 16; v. 289; p. 596.
Peters Bait Co., The, Knox, Ind. Fishing-reels. No. 145,899; Aug. 16; v. 289; p. 603.
Petry, Jacob, Pittsburgh, Pa. Dental suction-retainers. No. 145,900; Aug. 16; v. 289; p. 603.
Pfeffer, Genevieve, San Jose, Calif. Dresses, suits, pants, rompers, capes, &c., for women and children. No. 145,777; Aug. 16; v. 289; p. 596.
Phinny Brothers Company, Oil City, Pa. Certain oils and greases. No. 145,778; v. 289; Aug. 16; p. 596.
Pierce, S. S., Co., Boston, Mass. Preparation to prevent perspiration. No. 145,779; Aug. 16; v. 289; p. 596.
Pills for biliousness, headaches, &c., and a laxative. R. H. Hunstock Chemical Co. No. 145,693; Aug. 16; v. 289; p. 594.
Pingo Company, Cambridge, Mass. Preparation for blacking and dressing iron surfaces. No. 145,641; Aug. 16; v. 289; p. 592.
Pitchfork Company, The, Dallas, Tex. Monthly publications. No. 145,780; Aug. 16; v. 289; p. 596.
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, and slippers of leather, rubber, felt, &c. No. 145,781; Aug. 16; v. 289; p. 597.
Plimack Brothers, Inc., New York, N. Y. Men's and young men's suits and overcoats. No. 145,782; Aug. 16; v. 289; p. 597.
Polly Trent Candy Company, Washington, D. C. Candy. No. 145,901; Aug. 16; v. 289; p. 603.
Porto Rico Fruit Exchange, The, San Juan, Porto Rico. Oranges, grapefruit, and pineapples in their natural state. No. 145,783; Aug. 16; v. 289; p. 597.
Posmantier, Samuel, New York, N. Y. Preparations for the treatment of boils, burns, &c. No. 145,784; Aug. 16; v. 289; p. 597.
Pressure Proof Piston Ring Company, Boston, Mass. Monthly periodical. No. 145,785; Aug. 16; v. 289; p. 597.
Prevento-Hole, Inc., New York, N. Y. Preparation for increasing wearing properties of fabrics. No. 145,786; Aug. 16; v. 289; p. 597.
Racine Rubber Company, Racine, Wis. Tires composed of rubber and fabric. No. 145,788; Aug. 16; v. 289; p. 597.
Radior Co. Ltd. of London, New York, N. Y. Skin-soap. No. 145,789; Aug. 16; v. 289; p. 597.
Rawleigh, W. T., Company, The, Freeport, Ill. Polish for painted, varnished, waxed, and similar surfaces. No. 145,790; Aug. 16; v. 289; p. 597.
Rawleigh, W. T., Company, The, Freeport, Ill. Toilet preparations. No. 145,791; Aug. 16; v. 289; p. 597.
Raynor, Nicholas & Truesdell, New York, N. Y. Weekly publication. No. 145,792; Aug. 16; v. 289; p. 597.
Reedley Canning Co., Reedley, Calif. Canned fruits. Nos. 145,793–4; Aug. 16; v. 289; p. 597.
Reis, Robert, & Co., New York, N. Y. Clothing. No. 145,798; Aug. 16; v. 289; p. 597.
Reither, George H. W., Brooklyn, N. Y. Medicine for coughs, colds, and bronchitis. No. 145,902; Aug. 16; v. 289; p. 603.
Revere Rubber Company, Providence, R. I. Vehicle-tires made of rubber. No. 145,795; Aug. 16; v. 289; p. 597.
Rialto Shoe Co., Lynn, Mass. Women's shoes, pumps, and slippers. No. 145,796; Aug. 16; v. 289; p. 597.
Robinson Straus & Co., St. Paul, Minn. Hats and hat-frames. No. 145,827; Aug. 16; v. 289; p. 598.
Roebuck, James T., Newman, Ga. Liquid wax for waxing sewing-thread. No. 145,799; Aug. 16; v. 289; p. 597.
Rose Drug Company, Vicksburg, Miss. Liquid medicinal preparation for the treatment of the liver and kidneys. No. 145,800; Aug. 16; v. 289; p. 597.
Rosenthal, Maurice, San Francisco, Calif. Certain articles of clothing. No. 145,801; Aug. 16; v. 289; p. 597.
Saberton Mfg. Co., Tampa, Fla. Soap. No. 145,802; Aug. 16; v. 289; p. 597.
Salomon, Blum and Co., New York, N. Y. Ladies' suits, coats, and dresses. No. 145,803; Aug. 16; v. 289; p. 597.
Samstag & Hilder Bros., New York, N. Y. Hair-nets. No. 145,804; Aug. 16; v. 289; p. 597.
San Miguel Medicine Co., Los Angeles, Calif. Blood-purifier. No. 145,746; Aug. 16; v. 289; p. 595.
Sandow Motor Truck Co., Chicago, Ill. Motor-trucks and automobiles. No. 145,805; Aug. 16; v. 289; p. 597.
Schaefer Tent & Awning Co., The, Denver, Colo. Water-bags. No. 145,806; Aug. 16; v. 289; p. 597.
Schemer Hair Colorine Company, The, New York, N. Y. Hair-dye. No. 145,807; Aug. 16; v. 289; p. 597.
Schuessler, Ferdinand C., Newark, N. J. Liquid preparation for treating gasolene, &c., for the purpose of producing more power in motors using above fuels. No. 145,808; Aug. 16; v. 289; p. 597.
Scofield, Lillian E., New York, N. Y. Dye. No. 145,903; Aug. 16; v. 289; p. 603.
Seacoast Canning Co., Eastport, Me., and East San Pedro, Calif. Canned sardines. No. 145,809; Aug. 16; v. 289; p. 597.
Seattle Paint Company, Seattle, Wash. Ready-mixed paints. No. 145,810; Aug. 16; v. 289; p. 597.
Sharp & Dohme, Baltimore, Md. Antiseptic lubricating-jelly. No. 145,811; Aug. 16; v. 289; p. 597.
Shedaker, Charles E., & Sons, Philadelphia, Pa. Men's athletic underwear. No. 145,812; Aug. 16; v. 289; p. 597.
Smith, J. K., & Co., North Baltimore, Md. Coffee. No. 145,904; Aug. 16; v. 289; p. 603.
Smooth-On Manufacturing Company, Jersey City, N. J. Adhesive tape for repair purposes and the like. No. 145,814; Aug. 16; v. 289; p. 598.
Smooth-On Manufacturing Company, Jersey City, N. J. Sheet-packing containing comminuted iron and sheet-metal gaskets. No. 145,813; Aug. 16; v. 289; p. 597.

Smyth, E. G., Co., St. Louis, Mo. Pancake-flour. No. 145,815; Aug. 16; v. 289; p. 598.
Société d'Etudes Chimiques pour l'Industrie, Geneva, Switzerland. Fertilizer. No. 145,816; Aug. 16; v. 289; p. 598.
Society of Chemical Industry in Basle, Basel, Switzerland. Certain pharmaceutical preparations to be used as an anthelmintic. No. 145,817; Aug. 16; v. 289; p. 598.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, and music-boxes. Nos. 145,905–19; Aug. 16; v. 289; pp. 603–5.
Spence, Peter, & Sons, Limited, Manchester, England. Titanium sulfate. No. 145,818; Aug. 16; v. 289; p. 598.
Spencer, George C., South Bend, Ind. Perfumes. No. 145,920; Aug. 16; v. 289; p. 605.
Standard Four Tire Company, Keokuk, Iowa. Pneumatic rubber tires for vehicles and rubber inner tubes for tires. No. 145,820; Aug. 16; v. 289; p. 598.
Standard Four Tire Company, Keokuk, Iowa. Rubber tires and inner tubes. No. 145,821; Aug. 16; v. 289; p. 598.
Standard Oil Company, Bayonne, N. J. Liquid fuel-oil. No. 145,822; Aug. 16; v. 289; p. 598.
Standard Tire Company, The, Willoughby, Ohio. Rubber vehicle-tires. No. 145,819; Aug. 16; v. 289; p. 598.
Stearns, Frederick, & Company, Detroit, Mich. Medicine for coughs, colds, and bronchial affections. No. 145,823; Aug. 16; v. 289; p. 598.
Stetson, John B., Company, Philadelphia, Pa. Soft and stiff felt hats and caps for men and boys. Nos. 145,824–6; Aug. 16; v. 289; p. 598.
Sunset Paint Company, Los Angeles, Calif. House-paints, velour blanc, oil-colors, and zinc paste. No. 145,828; Aug. 16; v. 289; p. 598.
Sunshine Neckwear Company, Los Angeles, Calif. Men's neckties and cravats. No. 145,829; Aug. 16; v. 289; p. 598.
Suter, Robert, Baltimore, Md. Cough-drops. No. 145,661; Aug. 16; v. 289; p. 593.
Svider, Stanislaw, Jackson, Mich. Stones for treating eye diseases. No. 145,830; Aug. 16; v. 289; p. 598.
Swift, Dean, Washington, D. C. Medicine used in the treatment of torpid liver, constipation, kidney and bladder troubles, anemia, &c. No. 145,831; Aug. 16; v. 289; p. 598.
Tah Chang Sen & Co., Shanghai, China. Dyes. Nos. 145,834–7; Aug. 16; v. 289; p. 598.
Tah Chang Sen & Co., Shanghai, China. Dyes in the form of indigo paste. Nos. 145,832–3; Aug. 16; v. 289; p. 598.
Thayer, Edwin, M., Boston, Mass. Aniline dyes. No. 145,838; Aug. 16; v. 289; p. 598.
Thompson and Capper, Limited, Liverpool, England. General tonic. No. 145,839; Aug. 16; v. 289; p. 598.
Treverton, Charles W., Scranton, Pa. Antiseptic healing preparation for open sores and for application to mucous membranes. No. 145,840; Aug. 16; v. 289; p. 598.
Turnbladh, Nels P., Duluth, Minn. Shoes of leather, rubber, fabric or combination thereof. No. 145,841; Aug. 16; v. 289; p. 598.
Turney, Eugene T., Laboratories Incorporated, Holmes, N. Y. Inductance-coils and wireless apparatus. No. 145,842; Aug. 16; v. 289; p. 598.
Tyson, Rose E., New York, N. Y.; Magnolia, Mass., and Palm Beach, Fla. Certain clothing. No. 145,843; Aug. 16; v. 289; p. 598.
Unkefer Varnish Company, Chicago, Ill. Varnishes, varnish coatings, paints, enamels, paste, &c. No. 145,921; Aug. 16; v. 289; p. 605.
United States and South America Corporation, New York, N. Y. Clothing. No. 145,844; Aug. 16; v. 289; p. 598.
Vacuum Oil Company, New York, N. Y. Oils, greases, waxes of all kinds, &c. No. 145,845; Aug. 16; v. 289; p. 599.
Van Cleave, L. D., Joplin, Mo. Mouth-wash for use in curing the tobacco habit. No. 145,847; Aug. 16; v. 289; p. 599.
Vick, W. S., Chemical Co., Knoxville, Tenn. Salve for inflammations. No. 145,848; Aug. 16; v. 289; p. 599.
Victorius, A. V., & Company, Inc., New York, N. Y. Hosiery. No. 145,849; Aug. 16; v. 289; p. 599.
Vogan Candy Company, Portland, Oreg. Package-candy. No. 145,850; Aug. 16; v. 289; p. 599.
Vulcanite Roofing Company, The, Wilmington, Del., and Buffalo, N. Y. Shingles, roofing tile and slabs, &c. Nos. 145,851–2; Aug. 16; v. 289; p. 599.
Wadsworth, Howland & Co., Inc., Boston, Mass. Liquid paint for interior finish. No. 145,922; Aug. 16; v. 289; p. 605.
Wadsworth, Howland & Co., Inc., Boston, Mass. Varnishes. No. 145,853; Aug. 16; v. 289; p. 599.
Walker, Benjamin, Redwood City, Calif. Preparation for chapped hands, scalds, burns, sunburn. No. 145,923; Aug. 16; v. 289; p. 605.
Ward, A. Jse, Lincoln, Nebr. Ointment for certain ailments. No. 145,854; Aug. 16; v. 289; p. 599.
Ware Chemical Co., The, Dallas, Tex. Medicinal powders and tablets for diseases and derangement of the stomach and bowels. No. 145,855; Aug. 16; v. 289; p. 599.
Ware Chemical Co., The, Dallas, Tex. Remedy for diarrhea, &c. No. 145,856; Aug. 16; v. 289; p. 599.
Warren, S. D., Company, Boston, Mass. Printing-paper. No. 145,924; Aug. 16; v. 289; p. 605.
Weber, Carl H., Calumet, Okla. Poultry medicine for blind staggers, limberneck, &c. No. 145,857; Aug. 16; v. 289; p. 599.
Weigert, Ida M., New York, N. Y. Dress-protector in the nature of a bloomer-apron. No. 145,858; Aug. 16; v. 289; p. 599.
Wesco, Inc., Chicago, Ill. Monthly publication. No. 145,859; Aug. 16; v. 289; p. 599.
Wheeling Corrugating Company, Wheeling, W. Va. Sheet-metal poultry-houses and smokehouses. No. 145,860; Aug. 16; v. 289; p. 599.
White Heat Products Company, The, West Chester, Pa. Abrasive powder and wheels. No. 145,862; Aug. 16; v. 289; p. 599.
White, Ira, Schenectady, N. Y. Medicine for scours. No. 145,863; Aug. 16; v. 289; p. 599.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Monthly publication. No. 145,861; Aug. 16; v. 289; p. 599.
White & Wyckoff Manufacturing Company, Holyoke, Mass. Paper and stationery. No. 145,925; Aug. 16; v. 289; p. 605.
Whitehead Bros. Rubber Co., The, Trenton, N. J. Hose of rubber and cotton canvas duck. No. 145,864; Aug. 16; v. 289; p. 599.
Whittemore Brothers Corporation, Cambridge, Mass. Dye to be used on leather and articles made therefrom. No. 145,865; Aug. 16; v. 289; p. 599.
Wiebusch & Hilger, Limited, New York, N. Y. Grass-hooks. No. 145,866; Aug. 16; v. 289; p. 599.
Williams, Flora E., San Francisco, Calif. Hair-tonic. No. 145,867; Aug. 16; v. 289; p. 599.
Williams, I. B., and Sons, Dover, N. H. Waterproof, flat, oak-tanned leather belting. No. 145,868; Aug. 16; v. 289; p. 599.
Williams, P. A., Atlanta, Ga. Reconstructive tonic. No. 145,869; Aug. 16; v. 289; p. 599.
Williamson Heater Company, The, Cincinnati, Ohio. Coal, gas, and wood furnaces. No. 145,870; Aug. 16; v. 289; p. 599.
Williamson, Samuel B., Westport, Conn. Attachments and diaphragms for phonographs. No. 145,871; Aug. 16; v. 289; p. 599.
Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic powder. No. 145,872; Aug. 16; v. 289; p. 599.
Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic medical substance in powdered form. No. 145,873; Aug. 16; v. 289; p. 599.
Winthrop Chemical Company, Inc., New York, N. Y. Soporific drug preparation containing carbon, hydrogen, and oxygen. No. 145,874; Aug. 16; v. 289; p. 599.
Wisconsin Lumber Company, Chicago, Ill. Lumber and timber. No. 145,875; Aug. 16; v. 289; p. 599.
Woodhull, Goodale & Bull, Inc. Men's and young men's suits, trousers, and overcoats. No. 145,876; Aug. 16; v. 289; p. 600.
Wyeth, John, & Brothers, Incorporated, Philadelphia, Pa. Medicinal tablets for headaches, influenza, asthma, &c. No. 145,877; Aug. 16; v. 289; p. 600.
Zenith Mfg. Co., Atlanta, Ga. Preparation for the treatment of kinky hair. No. 145,878; Aug. 16; v. 289; p. 600.
Zetzsche, John H., New York, N. Y. Mayonnaise. No. 145,879; Aug. 16; v. 289; p. 600.
Zielinski, Mary, Cicero, Ill. Antiseptic healing-salve. No. 145,880; Aug. 16; v. 289; p. 600.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Acme Beverage-Extract Co., Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 146,945; Aug. 16; v. 289; p. 581.

Acme Brick Company, Fort Worth, Tex. Bricks and drainage-tiles. No. 147,392; Aug. 16; v. 289; p. 584.

Adams, Frank T., Connellsville, Pa. Rust-preventing and polishing preparation for automobile-bodies, adapted to be applied by a cloth. No. 125,272; Aug. 16; v. 289; p. 560.

Alexandre Works Inc., The, Garden City, N. Y. Fur-skins. No. 146,617; Aug. 16; v. 289; p. 580.

Alinall Mfg. Co., Worcester, Mass. Interior-wall glazing and coloring. No. 142,380; Aug. 16; v. 289; p. 570.

Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Comminuting machinery, and specifically for tube and ball mills and tumbling bodies therefor. No. 148,571; Aug. 16; v. 289; p. 588.

Allman Gas Engine and Machine Co., The, New York, N. Y. Ice-cream machines, ice-breaking machines, lathe-tool holders, and brine-machines. No. 147,184; Aug. 16; v. 289; p. 583.

Aluminium-Walswerke A.-G. Schaffhausen, Switzerland. Rope made of aluminium. No. 138,801; Aug. 16; v. 289; p. 566.

American Continuous Retort Company, The, Denver, Colo. Ore and oil-shale roasting furnace. No. 131,202; Aug. 16; v. 289; p. 562.

American Trading Co., New York, N. Y. Wheat-flour. No. 134,172; Aug. 16; v. 289; p. 564.

Arabo Co., The. (See Leyendecker, Robert E., assignor.)

Atlas Cereal Company, Kansas City, Mo. Rolled and steel-cut oats, cream and corn meal, hominy-grits, and pearl-hominy. No. 132,834; Aug. 16; v. 289; p. 563.

Barbour, J. E., Company, Paterson, N. J. Twines. No. 140,247; Aug. 16; v. 289; p. 568.

Barnett, Peter E., Chicago, Ill. Non-alcoholic, maltless, artificial grape beverage and syrup for making same. No. 143,482; Aug. 16; v. 289; p. 571.

Bass-Hueter Paint Co., San Francisco, Calif. Paste and ready-mixed paints, varnishes, and stains. No. 145,149; Aug. 16; v. 289; p. 575.

Bassick Manufacturing Co., Chicago, Ill. Devices for applying lubricant, lubricant dispensers and compressors, &c. No. 143,736; Aug. 16; v. 289; p. 572.

Beckwith, Estate of P. D., Inc., Dowagiac, Mich. Hot-air and combined hot-air and hot-water heaters and furnaces. No. 97,233; Aug. 16; v. 289; p. 559.

Bencoe Exporting and Importing Co., Inc., New York, N. Y. Sheetings. No. 134,209; Aug. 16; v. 289; p. 564.

Berlin, Julius, New York, N. Y. Medicinal preparation for the treatment of dyspepsia and indigestion. No. 145,737; Aug. 16; v. 289; p. 576.

Biggio, Frank, & Sons, Chicago, Ill. Fresh tomatoes. No. 147,404; Aug. 16; v. 289; p. 584.

Bishop & Company, Los Angeles, Calif. Chocolate in cake form for eating purposes. No. 147,401; Aug. 16; v. 289; p. 584.

Blechman, S., & Sons, Inc., New York, N. Y. Hair-nets. No. 146,789; Aug. 16; v. 289; p. 580.

Blue, John, Laurinburg, N. C. Fertiliser-distributer. No. 147,276; Aug. 16; v. 289; p. 583.

Blunden-Lyon Company, The, Chicago, Ill. Printing-paper. No. 148,363; Aug. 16; v. 289; p. 587.

Bownes, Frank, Company Inc., Lynn, Mass. Dry, ready-mixed, and paste paints. No. 142,382; Aug. 16; v. 289; p. 570.

Brafman, Solomon B., New York, N. Y. Cigars. No. 1,391,183; Aug. 16; v. 289; p. 567.

Breslauer Brothers & Bernstein, Inc., New York, N. Y. Hair-nets. No. 149,317; Aug. 16; v. 289; p. 590.

Bretch, Sam, Wholesale Specialties, Oklahoma, Okla. Automobile-tires of rubber and cloth fabric composition and rubber inner tubes for the same. No. 148,695; Aug. 16; v. 289; p. 588.

Brock, Martin, & August B. Praetsch, Jamaica Plain, Mass. Non-alcoholic, non-cereal, maltless beverage. No. 145,667; Aug. 16; v. 289; p. 575.

Brueck, Joseph, New York, N. Y. Nail-polish. No. 144,846; Aug. 16; v. 289; p. 574.

Brune, Pottberg & Co., New York, N. Y. Cotton piece goods. No. 148,917; Aug. 16; v. 289; p. 588.

Bryant Electric Company, The, Bridgeport, Conn. Electric-lamp sockets and receptacles. No. 146,247; Aug. 16; v. 289; p. 577.

Burgoon, Charles W., Bowling Green, Ohio. Alterative syrup, catarrh solution, cough-syrup, &c. No. 142,773; Aug. 16; v. 289; p. 570.

Butler Brothers, Chicago, Ill. Gloves of fabric and leather. No. 148,110; Aug. 16; v. 289; p. 587.

Buxton & Skinner Printing and Stationery Company, St. Louis, Mo. Writing-inks, typewriter ribbons, and inking-pads. No. 139,843; Aug. 16; v. 289; p. 567.

California Fibre Company, San Francisco, Calif. Vegetable fiber to be used in the manufacture of brocades, damasks, &c. No. 147,153; Aug. 16; v. 289; p. 583.

California Paint Company, Oakland, Calif. Mixed and dry paint, stains, varnishes, paint enamels, &c. Nos. 146,110–11; Aug. 16; v. 289; p. 577.

California Sprayer Company, Los Angeles, Calif. Dust-sprayers for spraying insecticide and fungicide on all kinds of vegetation. No. 147,596; Aug. 16; v. 289; p. 585.

Capitol Paint & Varnish Company, Washington, Pa., and Canton, Ohio. Flat wall-paint. No. 143,684; Aug. 16; v. 289; p. 572.

Carr, J. B., Biscuit Co., Wilkes-Barre, Pa. Biscuits and crackers. No. 132,511; Aug. 16; v. 289; p. 563.

Channell Chemical Company, Chicago, Ill.; Toronto, Canada; London, England, and Paris, France. Polish for cleaning and polishing furniture, floors, linoleums, &c. Nos. 144,453–4; Aug. 16; v. 289; p. 573.

Chicago Vitreous Enamel Product Company, Cicero, Ill. Vitreous or porcelain enamel to be baked on metal ware. No. 147,089; Aug. 16; v. 289; p. 582.

Citizen's Wholesale Supply Co., The, Columbus, Ohio. Aqua-ammonia, lye, sanitary powder, compound oils, &c. No. 143,256; Aug. 16; v. 289; p. 571.

Coast Tire and Rubber Company, Oakland, Calif. Rubber tires. No. 147,861; Aug. 16; v. 289; p. 586.

Coca Cola Bottling Distributing Co., Los Angeles, Calif. Non-alcoholic, non-cereal, maltless beverages and syrups for making the same. No. 142,776; Aug. 16; v. 289; p. 570.

Colby Confectionery Company, Inc., The, Los Angeles, Calif. Marshmallow crème. No. 147,410; Aug. 16; v. 289; p. 584.

Colman, J. & J., Limited, Norwich and London, England. Preparation of mustard forming a relish, condiment, or sauce. Nos. 146,411–12; Aug. 16; v. 289; p. 578.

Commercial Creamery Company, Spokane, Wash. Condensed buttermilk. No. 148,148; Aug. 16; v. 289; p. 575.

Continental Candy Corporation, Chicago, Ill. Candy. No. 141,064; Aug. 16; v. 289; p. 568.

Continental Chemical Corporation. (See Longshore, Jas. H., assignor.)

Council, James R., Norfolk, Va. Peanut-brittle. No. 146,520; Aug. 16; v. 289; p. 579.

Crocker-Wheeler Company, Ampere, N. J. Starters, motors, dynamos, and rail-bases therefor. No. 148,[illegible]; Aug. 16; v. 289; p. 588.

Davies, Usher L., San Francisco, Calif. Non-alcoholic non-cereal maltless beverage. No. 134,465; Aug. 16; v. 289; p. 564.

Davis, Jacob, Arlington, N. J. Paint coating or enamel for iron surfaces. No. 126,956; Aug. 16; v. 289; p. 561.

De La Vergne Machine Company, New York, N. Y. Ice-making and refrigerating machinery and parts thereof. No. 139,082; Aug. 16; v. 289; p. 567.

Delta Electric Company, Worcester, Mass. Electric water-pumping outfits, electric fixture parts and signs, &c. No. 131,628; Aug. 16; v. 289; p. 562.

Detroit Beef Company, Detroit, Mich. Butter and eggs. No. 141,455; Aug. 16; v. 289; p. 569.

Diehl, Edw., Nashville, Tenn. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 145,772; Aug. 16; v. 289; p. 576.

Dixie Mercerising Company, Chattanooga, Tenn. Yarns. No. 149,849; Aug. 16; v. 289; p. 590.

Doane, Glendon B., Boston, Mass. Tool and machine handles and ferrules. No. 147,865; Aug. 16; v. 289; p. 586.

Domestic Manufacturing Co., Seattle, Wash. Electric ironers. No. 146,113; Aug. 16; v. 289; p. 577.

Dussek, Albert E. H., London, England. Construction materials made of bituminous waterproof material. No. 142,877; Aug. 16; v. 289; p. 571.

Eastlite Electric Company, Louisville, Ky. Unitary electric-light plants. No. 147,868; Aug. 16; v. 289; p. 586.

Engel, H., & Sons, New York, N. Y. Handkerchiefs. No. 148,489; Aug. 16; v. 289; p. 587.

Erlanger, N., Blumgart & Co. Inc., New York, N. Y. Cotton voiles in piece goods. No. 149,129; Aug. 16; v. 289; p. 589.

Fairbanks Co., The, New York, N. Y. Steel factory equipment. No. 142,138; Aug. 16; v. 289; p. 570.

Federal Rubber Company, The, Cudahy, Wis. Vehicle-tires made wholly or partly of rubber. Nos. 146,903–4; Aug. 16; v. 289; p. 581.

Ferond, Jules, Company, Inc., New York, N. Y. Hair grower and tonic. No. 146,428; Aug. 16; v. 289; p. 578.

Fiberloid Corporation, The, Indian Orchard, Mass. Hand-mirrors. No. 141,971; Aug. 16; v. 289; p. 569.

Fitzgerald Manufacturing Company, The, Torrington, Conn. Electric fans. No. 148,490; Aug. 16; v. 289; p. 588.

Foss, Lewis T., Southern Pines, N. C. Fresh peaches. No. 110,143; Aug. 16; v. 289; p. 559.

Fowler & Union Horse Nail Company, The. (See Fowler Nail Co., The, assignor.)

Fowler Nail Co., The, Seymour, Conn., assignor to The Fowler & Union Horse Nail Company, New Haven, Conn. Cold-rolled horseshoe-nails. Nos. 118,221–2; Aug. 16; v. 289; p. 560.

French Battery & Carbon Co., Madison, Wis. Dry-cell batteries. No. 146,704; Aug. 16; v. 289; p. 580.

French, R. T., Company, The, Rochester, N. Y. Face-powder. No. 146,962; Aug. 16; v. 289; p. 581.

Frick Company, Waynesboro, Pa. Threshing machinery, sawmills, steam-engines, &c. No. 148,063; Aug. 16; v. 289; p. 586.

Gandy Belting Company, The, Baltimore, Md. Cotton-sticked belting for power transmission, &c. No. 148,140; Aug. 16; v. 289; p. 587.

Gerber Company, The, Baltimore, Md. Candy. No. 146,310; Aug. 16; v. 289; p. 578.

Giaconi, J. V., & Co., Long Beach, Calif. Canned fish. No. 145,061; Aug. 16; v. 289; p. 575.

Gilman Bros. Inc., Boston, Mass. Hair-nets and handkerchiefs. No. 149,225; Aug. 16; v. 289; p. 589.

Gisiger, Emil, Seizach, Switzerland, and New York, N. Y. Watches, watchcases, watch dials and movements, and alarm-clocks. Nos. 132,241–7; Aug. 16; v. 289; pp. 562–3.

Goodrich, B. F., Company, The, New York, N. Y. Pneumatic-tire casings of cord or thread and rubber construction. No. 115,482; Aug. 16; v. 289; p. 559.

Graf Bros., Inc., New York, N. Y. Hair-nets. No. 149,749; Aug. 16; v. 289; p. 590.

Grauley, Estate of Henry B., Philadelphia, Pa. Cigars. No. 139,120; Aug. 16; v. 289; p. 567.

Grocers Baking Company Incorporated, Louisville, Ky. Loaf-cake. No. 145,683; Aug. 16; v. 289; p. 576.

Gunn Furniture Company, The, Grand Rapids, Mich. Desks. No. 144,137; Aug. 16; v. 289; p. 573.

Gust. & H. Probst, A. G., Langnau, Switzerland. Cheese. No. 140,032; Aug. 16; v. 289; p. 568.

Guy Motors Ltd., Wolverhampton and Fallings Park, England. Automobiles, motor-boats, aeroplanes, motor-cycles. No. 134,485; Aug. 16; v. 289; p. 564.

Halper, Victor, New York, N. Y. Medicinal preparation to be taken internally for the treatment of gonorrhea. No. 146,911; Aug. 16; v. 289; p. 581.

Hampden Glazed Paper & Card Co., Holyoke, Mass. Cover-paper. No. 148,387; Aug. 16; v. 289; p. 587.

Hately Brothers Company, Chicago, Ill. Hams, bacon, and lard. No. 144,285; Aug. 16; v. 289; p. 573.

Herman, John C., & Company, Harrisburg, Pa. Cigars. No. 139,280; Aug. 16; v. 289; p. 567.

Huyck, F. C., & Sons, Albany, N. Y. Woolen piece goods, suitings, and overcoats of textile fabrics. No. 143,863; Aug. 16; v. 289; p. 572.

Ideal Disinfectant Company, Newark, N. J., and New York, N. Y. Undertaker's disinfectant and deodorant powders. No. 146,969; Aug. 16; v. 289; p. 581.

Indiana Indestructible Paint Co., Chicago, Ill. Dry, ready-mixed, and paste paint. No. 146,555; Aug. 16; v. 289; p. 579.

Industrial Paint Company, The, Milwaukee, Wis. Ready-mixed paint. No. 146,259; Aug. 16; v. 289; p. 577.

Interstate Shade Cloth Co., Hoboken, N. J. Shade-cloth. No. 147,163; Aug. 16; v. 289; p. 582.

Jackson, Edwin A., & Bro. Inc., New York, N. Y. Built-in garbage-receivers into the wall of a building. No. 128,732; Aug. 16; v. 289; p. 561.

Jacobsen Manufacturing Company, Racine, Wis. Lawn-mowers. No. 147,785; Aug. 16; v. 289; p. 586.

Jacobson, Max, New York, N. Y. Talking-boards. No. 131,428; Aug. 16; v. 289; p. 562.

Joffe-Foster Co. Inc., The, Philadelphia, Pa. Men's and boys' overcoats, suits, coats, waistcoats, and trousers. No. 145,749; Aug. 16; v. 289; p. 576.

Johnson, Charles Enew, & Company, Philadelphia, Pa. Chemical compound for removing ink from printing-rolls, &c. No. 144,916; Aug. 16; v. 289; p. 574.

Katz, Nathan U., Camden, N. J. Candies. No. 147,726; Aug. 16; v. 289; p. 585.

Kimball Company, The, Philadelphia, Pa. Pipe thread and gasket compound. No. 144,025; Aug. 16; v. 289; p. 573.

Krebs, Ida M., San Francisco, Calif. Cough-drops. No. 147,028; Aug. 16; v. 289; p. 582.

Kumyss, Incorporated, New York, N. Y. Kumyss. No. 137,131; Aug. 16; v. 289; p. 565.

Langley & Michaels Company, San Francisco, Calif. Intestinal lubricant. No. 147,202; Aug. 16; v. 289; p. 583.

Langslow, Harry R., Rochester, N. Y. Desks. No. 141,986; Aug. 16; v. 289; p. 569.

Lantz Bros. Baking Co., St. Louis, Mo. Cakes and cookies. No. 137,381; Aug. 16; v. 289; p. 565.

Lexington Motor Company, Connersville, Ind. Passenger motor-cars. No. 149,969; Aug. 16; v. 289; p. 590.

Leyendecker, Robert E., assignor to The Arabo Co. Inc., New York, N. Y. Extract of hops and malt for preparing soft drinks. No. 142,626; Aug. 16; v. 289; p. 570.

Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 138,770; Aug. 16; v. 289; p. 566.

Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 138,772; Aug. 16; v. 289; p. 566.

Liggett & Myers Tobacco Company, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 139,358; Aug. 16; v. 289; p. 567.

Lightning Spark Plug Company, Los Angeles, Calif. Spark-plugs. No. 149,195; Aug. 16; v. 289; p. 589.

Lilly, Eli, & Company, The, Indianapolis, Ind. Toilet powder. No. 120,311; Aug. 16; v. 289; p. 560.

Limousine Body Co., The, Kalamazoo, Mich. Automobile bodies and tops. No. 149,970; Aug. 16; v. 289; p. 590.

Lincoln, Edward K., New York, N. Y. Auto-varnish, auto Dri Mist, (a polish,) cedar floor-polish, &c. No. 144,819; Aug. 16; v. 289; p. 574.

Linquist, Bertrice E., Minneapolis, Minn. Phonographs. No. 123,650; Aug. 16; v. 289; p. 560.

Locomobile Company of America, The, Bridgeport, Conn., and New York, N. Y. Self-propelled vehicles—namely, trucks. No. 116,784; Aug. 16; v. 289; p. 559.

Longshore, Jas. H., assignor to Continental Chemical Corporation, Watseka, Ill. Chemical compounds. No. 124,485; Aug. 16; v. 289; p. 560.

Look-See Shop, The, Washington, D. C. Novelties in the form of curios, old prints, embroideries, &c. No. 138,815; Aug. 16; v. 289; p. 566.

Lynn, Mary E., Washington, D. C. Hand-drawn express-wagons. No. 142,292; Aug. 16; v. 289; p. 570.

Maatschappij Ago, Amsterdam and Ter Apel, Netherlands. Shuttles, shuttle-pegs, picking band-pegs, creel-pegs, and shuttle-peg pins. No. 137,952; Aug. 16; v. v. 289; p. 565.

McDonald, E. F., Jr., Chicago, Ill. Yeast. No. 146,022; Aug. 16; v. 289; p. 577.

McMillan, D. E., & Bro., Chicago, Ill. Coal. No. 145,700; Aug. 16; v. 289; p. 576.

Maggi Co., The, Kempttal, Switzerland. Seasonings for improving soups, sauces, gravies, &c. Nos. 146,974–5; Aug. 16; v. 289; pp. 581–2.

Mappin & Webb Limited, London and Sheffield, England. Handles for knives and forks for table use. No. 147,569; Aug. 16; v. 289; p. 585.

Margosian, John H., Milford, Mass. Medicinal preparation for treatment of ailments resulting from unnatural discharges of mucous membranes. No. 144,241; Aug. 16; v. 289; p. 573.

Martin Leather Company, Wilmington, Del. Leather. No. 149,472; Aug. 16; v. 289; p. 590.

Medina Fruit Products Co., Inc., Medina, N. Y. Cider. Nos. 140,605–6; Aug. 16; v. 289; p. 568.

Milwaukee Auto Engine & Supply Company, Milwaukee, Wis. Automobile-bumpers. No. 1,477,790; Aug. 16; v. 289; p. 586.

Minerva Motors, Antwerp, Belgium. Automobiles and chassis for automobiles, bicycles, and aeroplanes. No. 139,215; Aug. 16; v. 289; p. 567.

Miracle Polish Company, Akron, Ohio. Furniture-polish. No. 145,114; Aug. 16; v. 289; p. 575.

Monmouth County Farmers Exchange, Freehold, N. J. Potatoes, (bagged in their natural state.) No. 147,301; Aug. 16; v. 289; p. 583.

Moore, Maud C., San Francisco, Calif. Toilet cream. No. 144,528; Aug. 16; v. 289; p. 574.

Morrell, John, & Company, Ottumwa, Iowa. Bacon. No. 147,368; Aug. 16; v. 289; p. 584.

Morton Sundour Fabrics Ld., Dentonhill, Carlisle, England. Table-cloths, serviettes, cushion-covers, handkerchiefs, &c. No. 147,204; Aug. 16; v. 289; p. 583.

Morton Sundour Fabrics Ld., Dentonhill, Carlisle, England. Linen, hemp, and silk piece goods, cloths and stuffs of wool, worsted, &c. No. 147,206; Aug. 16; v. 289; p. 583.

Nash Engineering Co., South Norwalk, Conn. Air-compressors, vacuum-pumps, vacuum-heating pumps, boiler-feed pumps, &c. No. 148,751; Aug. 16; v. 289; p. 588.

National Checking Company, St. Paul, Minn. Correspondence-envelops. No. 146,457; Aug. 16; v. 289; p. 579.

National Drug Stores Corporation, New York, N. Y. Invalid-rings, sprays, surgeons' operating rubber gloves, ice-caps. No. 130,284; Aug. 16; v. 289; p. 561.

National Toy and Tinsel Mfg. Co., Manitowoc, Wis. Toys. No. 127,484; Aug. 16; v. 289; p. 561.

Navajo Laboratories, Inc., Casper, Wyo. Automobile-polish. No. 146,459; Aug. 16; v. 289; p. 579.

Neidich, Jacob S., Yonkers, N. Y. Storage batteries. No. 147,041; Aug. 16; v. 289; p. 582.

Nelson, Harry H., Elmira, N. Y. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 144,832; Aug. 16; v. 289; p. 574.

(REGISTRATION APPLIED FOR.)

New Process Chemical Co., Inc., New York, N. Y. Ready-mixed and waterproofing paints, waterproofing-fillers in the nature of paint. No. 116,788; Aug. 16; v. 289; p. 559.
Niagara Wall Board Company, Incorporated, Buffalo, N. Y. Wall and sheathing boards. No. 144,469; Aug. 16; v. 289; p. 574.
Oden, Eugene R., San Francisco, Calif. Ready-mixed paint and liquid waterproof coatings of a paintlike nature. No. 143,000; Aug. 16; v. 289; p. 571.
Olts, James W., Oakland, Calif. Automobile and furniture polish. No. 133,555; Aug. 16; v. 289; p. 564.
Openright Specialty Company, New York, N. Y. Tools for cutting the covers of sheet metal cans and boxes. No. 149,145; Aug. 16; v. 289; p. 589.
Orange Surprise Syrup & Bottling Co., Morristown, N. J. Non-alcoholic, non-cereal, maltless beverages, and syrups for making same. No. 144,834; Aug. 16; v. 289; p. 574.
Oregon Growers Co-Operative Assn., Salem, Oreg. Maltless, non-alcoholic, non-cereal beverages. No. 146,585; Aug. 16; v. 289; p. 579.
Oregon Growers Co-Operative Assn., Salem, Oreg. Maltless, non-alcoholic, non-cereal beverages. No. 146,588; Aug. 16; v. 289; p. 579.
Orium Company, The, St. Louis, Mo. Preparation for the treatment of the scalp and for prevention of dandruff and falling hair. No. 146,730; Aug. 16; v. 289; p. 580.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. No. 148,850; Aug. 16; v. 289; p. 588.
Patek Brothers, Milwaukee, Wis. Paint enamels. No. 144,741; Aug. 16; v. 289; p. 574.
Paulson, Henry, Chicago, Ill. Polishing-buffs. No. 140,408; Aug. 16; v. 289; p. 568.
Pearl City Fruit Company, Limited, Honolulu, Hawaii. Non-intoxicating, maltless, non-cereal beverage. No. 142,450; Aug. 16; v. 289; p. 570.
Pirika Chocolate Co., Inc., The, Brooklyn, N. Y. Prepared chocolate. No. 146,845; Aug. 16; v. 289; p. 580.
Placek & Briscoe, Gallup, N. Mex. Blood-purifying solution used for medicinal purposes. No. 139,046; Aug. 16; v. 289; p. 567.
Plant, Ray C., Minneapolis, Minn. Electric-lighting fixture. No. 145,913; Aug. 16; v. 289; p. 577.
Pollard Machinery Company, Incorporated, Niagara Falls, N. Y. Stone-cutting machines. No. 147,260; Aug. 16; v. 289; p. 583.
Premier Machinery Company, San Francisco, Calif. Fruit and vegetable peelers, washers, and slicers, exhaust-boxes, &c. No. 147,571; Aug. 16; v. 289; p. 585.
Prokos, George N., Washington, D. C. Non-alcoholic, non-cereal, maltless beverage. No. 147,044; Aug. 16; v. 289; p. 582.
Pure Food Specialties Company, The, Toledo, Ohio. Oleomargarin. No. 141,020; Aug. 16; v. 289; p. 568.
Regal Manufacturing Co., Kansas City, Mo. Insect-powder. No. 146,846; Aug. 16; v. 289; p. 581.
Reynolds, Anna E., New York, N. Y. Cream for the complexion. No. 136,430; Aug. 16; v. 289; p. 565.
Reynolds Company, Limited, Vancouver, British Columbia, Canada. Shingles. No. 121,944; Aug. 16; v. 289; p. 560.
Reynolds, S. A., Kansas City, Mo. Tobacco products. No. 138,922; Aug. 16; v. 289; p. 566.
Richmond Broom Company, Inc., Richmond, Va. Brooms. No. 143,786; Aug. 16; v. 289; p. 572.
Robert Sinclair Tobacco Company, Limited, The, Newcastle-upon-Tyne, England. Cigarettes and smoking-tobacco. No. 141,508; Aug. 16; v. 289; p. 569.
Robert Sinclair Tobacco Company, Limited, The, Newcastle-upon-Tyne, England. Smoking-tobacco. No. 141,509; Aug. 16; v. 289; p. 569.
Robertson, V. Otis, Boston, Mass. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 142,807; Aug. 16; v. 289; p. 571.
Roos, Henry W., Cincinnati, Ohio. Adjustable shores. No. 148,762; Aug. 16; v. 289; p. 588.
Root, A. I., Company, The, Medina, Ohio. Honey. No. 146,334; Aug. 16; v. 289; p. 578.
Rosenfeld, Joseph A., Philadelphia, Pa. Pattern-marking machine. No. 148,457; Aug. 16; v. 289; p. 587.
Rubyhill Vineyard Co., Pleasanton, Calif. Grape-juice. No. 143,618; Aug. 16; v. 289; p. 572.
Rycroft, W. W., & Co., New York, N. Y. Cotton and wool dress goods in the piece. No. 138,924; Aug. 16; v. 289; p. 567.
Sailors and Lamb Company, The, Cleveland, Ohio. Prepared paints, varnishes, and paint enamels. No. 143,716; Aug. 16; v. 289; p. 572.
Sailors and Lamb Company, The, Cleveland, Ohio. Painters' supplies, prepared paints, varnishes, and paint enamels. No. 143,717; Aug. 16; v. 289; p. 572.
Samoset Chocolates Company, Boston, Mass. Candy. No. 147,898; Aug. 16; v. 289; p. 586.
Sandage, William L., Indianapolis, Ind. Bearings. No. 147,643; Aug. 16; v. 289; p. 585.
Sanitas Company, Inc., The, Jersey City, N. J., and Brooklyn, N. Y. Disinfectants, insecticides, and deodorants. Nos. 146,743–4; Aug. 16; v. 289; p. 580.
Sargent Company, Chicago, Ill. Rear-view mirrors for automobiles. No. 148,092; Aug. 16; v. 289; p. 587.
Sauer, C. F., Company, The, Richmond, Va. Food-flavoring extracts. No. 147,899; Aug. 16; v. 289; p. 586.
Saxony Mills, St. Louis, Mo. Wheat-flour. No. 146,275; Aug. 16; v. 289; p. 578.
Schroeder, Henry P., St. Louis, Mo. Non-intoxicating beverages. No. 132,817; Aug. 16; v. 289; p. 563.
Schuckl, Max, San Francisco, Calif. Canned fruits and vegetables. No. 147,468; Aug. 16; v. 289; p. 584.
Schutt, Alvina, Marinette, Wis. Medicinal preparation for use in tuberculosis, coughs, colds, &c. No. 146,399; Aug. 16; v. 289; p. 578.
Schwarze Electric Company, Adrian, Mich. Electric horns. No. 148,355; Aug. 16; v. 289; p. 587.
Sehieren, Chas. A., Company, New York, N. Y. Leather packings. No. 138,264; Aug. 16; v. 289; p. 566.
Service Corp., Bakersfield, Calif. Non-alcoholic, non-cereal, maltless beverages. Nos. 145,756–7; Aug. 16; v. 289; p. 576.
Shu-Betty Company, New York, N. Y. Domestic shoe-cabinets. No. 136,813; Aug. 16; v. 289; p. 565.
Sidenberg, G., & Co., New York, N. Y. Muslins and cotton piece goods. No. 147,262; Aug. 16; v. 289; p. 583.
Smith, Hogg & Co., New York, N. Y. Cotton piece goods. No. 148,954; Aug. 16; v. 289; p. 589.
Société Lyonnaise d'Industrie Mecanique, Lyon-St.Clair-Caluire, France. Automobiles and lorries. No. 135,175; Aug. 16; v. 289; p. 564.
Société Ricard Allenet & Cie., Melle, France. Furfuramid chemical product as well as all its compounds. No. 133,985; Aug. 16; v. 289; p. 564.
Stahl, Harry, Seattle, Wash. Bread, biscuits, and cakes. No. 145,721; Aug. 16; v. 289; p. 576.
Taffae & Bellion, New York, N. Y. Raw coffee. Nos. 147,747–8; Aug. 16; v. 289; p. 585.
Texas Company, The, Houston, Tex., and New York, N. Y. Kerosene-oil. No. 125,518; Aug. 16; v. 289; p. 561.
Texas Company, The, Houston, Tex., and New York, N. Y. Turpentine substitute. No. 145,241; Aug. 16; v. 289; p. 576.
Themer, Rudolph, Chicago, Ill. Salve for eczema, piles, &c. No. 144,437; Aug. 16; v. 289; p. 573.
Thompson, Henry G., & Son Company, The, New Haven, Conn. Hacksaw-blades. No. 145,804; Aug. 16; v. 289; p. 576.
Ultra Refined Crude Products Company, Chicago, Ill. Preparation used as a polish for painted, varnished, waxed, and oiled surfaces, &c. No. 135,675; Aug. 16; v. 289; p. 565.
United Dairy Association of Washington, Seattle, Wash. Evaporated milk, ice-cream, and powdered milk. No. 147,482; Aug. 16; v. 289; p. 584.
Universal High Power Telephone Company, Seattle, Wash. Telephones and parts thereof, &c. No. 123,400½; Aug. 16; v. 289; p. 560.
Valdosta Retort Co., Valdosta, Ga. Pine-oil prepared and colored for use as a wood stain and preservative. No. 143,970; Aug. 16; v. 289; p. 572.
Van Doren, Harry W., Pulaski, Va. Non-alcoholic maltless beverage. No. 137,793; Aug. 16; v. 289; p. 565.
Vaycide Chemical Corporation, Birmingham, Ala. Insecticide. Nos. 147,487–8; Aug. 16; v. 289; pp. 584–5.
Vinson Coffee Company, Jackson, Tenn. Coffee. No. 147,854; Aug. 16; v. 289; p. 586.
Wadsworth-Howland Company, Chicago, Ill. Wall-finish, iron-enamel, mixed paint, varnish-stain, &c. No. 141,616; Aug. 16; v. 289; p. 569.
Wallace, R., & Sons Mfg. Co., The, Wallingford, Conn. German-silver flat-ware—namely, knives, forks, spoons, &c. No. 145,093; Aug. 16; v. 289; p. 575.
Wandell Chocolate Company, Inc., Baltimore, Md. Candy, chocolate-covered nuts, nougat, caramels, &c. No. 143,112; Aug. 16; v. 289; p. 571.
Ward Baking Company, New York, N. Y. Cake. No. 145,664; Aug. 16; v. 289; p. 575.
Waxed Products Company, Inc., Brooklyn, N. Y. Waxed paper. No. 146,475; Aug. 16; v. 289; p. 579.
Wester Bros., New York, N. Y. Razors. No. 149,049; Aug. 16; v. 289; p. 589.
Whiting Paper Company, Holyoke, Mass. Index and bristol boards. No. 145,600; Aug. 16; v. 289; p. 575.
Wichita Flour Mills Co., The, Wichita, Kans. Wheat-flour. No. 146,053; Aug. 16; v. 289; p. 577.
Wickwire Spencer Steel Corporation, Worcester, Mass. Bottle and jar openers, egg whips and beaters, flour-sifters, &c. No. 147,147; Aug. 16; v. 289; p. 582.
Wielich, Albert, New York, N. Y. Malt extracts. No. 141,445; Aug. 16; v. 289; p. 569.
Wills, C. H., & Company, Marysville, Mich. Automobiles. No. 148,414; Aug. 16; v. 289; p. 587.
Wolferman, Fred, Good Things to Eat Co., Kansas City, Mo. Coffee. No. 146,606; Aug. 16; v. 289; p. 579.
Wolff, H., & Co., New York, N. Y. Scissors. No. 148,960; Aug. 16; v. 289; p. 589.
Yeomanette Company, The, New York, N. Y. Hair-nets. No. 148,961; Aug. 16; v. 289; p. 589.
Zuercher, Chas., Broadhead, Wis. Chase. No. 145,486; Aug. 16; v. 289; p. 575.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 16TH DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrasive for grinding and smoothing glass. W. L. Kann. No. 1,387,649; Aug. 16; v. 289; p. 459.
Acid and compounds of the same, Apparatus for the manufacture of phosphoric. W. H. Waggaman and T. B. Turley. No. 1,387,817; Aug. 16; v. 289; p. 493.
Addressing apparatus. P. F. Cox. No. 1,387,592; Aug. 16; v. 289; p. 447.
Aeroplane. W. F. Osborne. No. 1,387,809; Aug. 16; v. 289; p. 508.
Aeroplane speed-indicator. A. F. Poole. No. 1,387,555; Aug. 16; v. 289; p. 440.
Aeroplanes, Control for. W. S. Rabb. No. 1,387,513; Aug. 16; v. 289; p. 431.
Agitator. H. Halstead. No. 1,387,709; Aug .16; v. 289; p. 471.
Air and gases electrically, Method of and apparatus for treating. W. T. Hoofnagle. No. 1,388,112; Aug. 16; v. 289; p. 550.
Air-compressor, Engine. M. Rotter. No. 1,387,515; Aug. 16; v. 289; p. 432.
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Vapor, Means for conditioning. R. W. Hardie. No. 1,388,143; Aug. 16; v. 289; p. 555.
Vegetables and fruits, Drying. B. S. Harrison. No. 1,387,710; Aug. 16; v. 289; p. 471.
Vehicle-body-door construction. W. H. Emond. No. 1,387,773; Aug. 16; v. 289; p. 484.
Vehicle body, Motor-. G. Sheffs. No. 1,387,911; Aug. 16; v. 289; p. 511.
Vehicle, Convertible. S. E. Creasey. No. 1,388,028; Aug. 16; v. 289; p. 533.
Vehicle-spring, Attachable. E. R. Ritter. No. 1,387,615; Aug. 16; v. 289; p. 452.
Vehicle, trailed power, Motor-. H. Wilcox. No. 1,387,820; Aug. 16; v. 289; p. 498.
Vehicle-wheels, Appliance for mending broken. D. J. Brown. No. 1,387,918; Aug. 16; v. 289; p. 512.
Vehicles, Antiskid attachment for. O. J. Schoenborn. No. 1,388,066; Aug. 16; v. 289; p. 540.
Vehicles, Steering-gear for motor-. M. R. Karge. No. 1,387,727; Aug. 16; v. 289; p. 474.
Vehicles, Buffer for motor-driven. E. E. Warner. No. 1,387,874; Aug. 16; v. 289; p. 504.
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Velocipede, Child's. G. Eklund. No. 1,387,771; Aug. 16; v. 289; p. 484.
Ventilator: *See*—
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Vise. D. A. Wilkinson. No. 1,387,821; Aug. 16; v. 289; p. 493.
Vise appliance. E. L. Page. No. 1,387,936; Aug. 16; v. 289; p. 515.
Vise, Quick-acting. E. W. Fulton. No. 1,387,845; Aug. 16; v. 289; p. 498.
Violin-player, Automatic. E. V. Carlson. No. 1,387,467; Aug. 16; v. 289; p. 421.
Vulcanizer-burner. W. Frost. No. 1,388,032; Aug. 16; v. 289; p. 534.
Vulcanizing, Method of and apparatus for. R. H. Atcheson. No. 1,388,138; Aug. 16; v. 289; p. 555.
Warping-machine. G. W. Kuenneth. No. 1,387,893; Aug. 16; v. 289; p. 507.
Warping-mill apparatus. A. McMunn. No. 1,387,858; Aug. 16; v. 289; p. 501.
Washing-machine. C. Schirmer. No. 1,388,064; Aug. 16; v. 289; p. 540.
Washing-machine. J. N. Thornton. No. 1,387,630; Aug. 16; v. 289; p. 455.
Washing-machine drive. H. W. Eden. No. 1,387,696; Aug. 16; v. 289; p. 467.
Washing or cleaning machine. A. Henning. No. 1,387,776; Aug. 16; v. 289; p. 485.
Water-gage cocks, Arrangement of. W. F. Kiesel, Jr. No. 1,388,115; Aug. 16; v. 289; p. 550.
Water-heater, Electric. A. M. Werner. No. 1,387,819; Aug. 16; v. 289; p. 493.
Water-motor. E. J. Brady. No. 1,388,018; Aug. 16; v. 289; p. 531.
Water-softening material, Manufacturing. J. B. Wherry. No. 1,388,133; Aug. 16; v. 289; p. 554.
Welding system, Electric-arc-. K. L. Hansen. No. 1,387,487; Aug. 16; v. 289; p. 426.
Well-casing extractor. F. M. Price. No. 1,387,944; Aug. 16; v. 289; p. 517.
Well-drilling bit. P. G. Midgett. No. 1,387,733; Aug. 16; v. 289; p. 475.
Wheel: *See*—
Automobile-wheel.
Cast-steel-spoked wheel.
Resilient wheel.
Wire-spoked wheel.
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Wheel assembly, Drive-. S. V. and M. G. Dusseau. No. 1,387,967; Aug. 16; v. 289; p. 521.
Wheel construction, Disk-. R. C. Hoffman. No. 1,387,982; Aug. 16; v. 289; p. 524.
Wheel-puller, Hydraulic. C. W. Wood and E. C. Kelly. No. 1,387,674; Aug. 16; v. 289; p. 463.
Wheels, Hub structure of detachable wire-spoked. E. G. Budd. No. 1,388,022; Aug. 16; v. 289; p. 532.
Windmill. J. J. Donnelly. No. 1,387,692; Aug. 16; v. 289; p. 467.
Window-clamp. H. W. Struebing. No. 1,387,564; Aug. 16; v. 289; p. 441.
Window construction. F. Dutcher. No. 1,387,479; Aug. 16; v. 289; p. 424.
Window-fastener. W. Miller. No. 1,387,860; Aug. 16; v. 289; p. 501.
Window-guard. H. M. Aarons. No. 1,387,958; Aug. 16; v. 289; p. 519.
Window-lock. C. Price. No. 1,387,903; Aug. 16; v. 289; p. 509.
Window-screen. R. Schulz. No. 1,387,947; Aug. 16; v. 289; p. 518.
Window-ventilator. M. J. Leahy. No. 1,388,050; Aug. 16; v. 289; p. 537.
Windshield-cleaner, Actuating device for. W. M. Folberth. No. 1,387,598; Aug. 16; v. 289; p. 448.
Wire-spoked wheel. E. G. Budd. No. 1,388,021; Aug. 16; v. 289; p. 531.
Wireless receiving system. A. W. Hull. No. 1,387,986; Aug. 16; v. 289; p. 525.
Wood wheel. C. N. Waterhouse. No. 1,387,568; Aug. 16; v. 289; p. 442.
Wrench: *See*—
Pipe-wrench.
Power-wrench.
Wrench. J. Canelles. No. 1,387,761; Aug. 16; v. 289; p. 481.
Wrench. R. H. Dimock, J. Sheaver, and G. Wyskocil. No. 1,388,029; Aug. 16; v. 289; p. 533.
Wrench. C. E. Reed. No. 1,387,867; Aug. 16; v. 289; p. 503.
Wrench. H. J. Smith. No. 1,388,005; Aug. 16; v. 289; p. 529.
Wrench. J. W. Tracy. No. 1,388,131; Aug. 16; v. 289; p. 553.
X-ray negatives, File record and mount for. O. A. Helmer. No. 1,387,488; Aug. 16; v. 289; p. 426.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Abrasive powder and wheels. White Heat Products Company. No. 145,862; Aug. 16; v. 289; p. 599.
Adhesive tape for repair purposes, &c. Smooth-On Manufacturing Company. No. 145,814; Aug. 16; v. 289; p. 598.
Anesthetic, Local. A. E. Healy. No. 145,689; Aug. 16; v. 289; p. 594.
Antiseptic healing preparation. C. W. Treverton. No. 145,840; Aug. 16; v. 289; p. 398.
Antiseptic powder. Winthrop Chemical Company. No. 145,872; Aug. 16; v. 289; p. 599.
Antiseptic solution. J. B. Haymore. No. 145,688; Aug. 16; v. 289; p. 594.
Attachments and diaphragms, Phonograph. S. B. Williamson. No. 145,871; Aug. 16; v. 289; p. 599.
Automobiles and certain parts thereof, Pressed-steel frames for. Parish & Bingham Corporation. No. 145,772; Aug. 16; v. 289; p. 596.
Bags, Water-. Schaefer Tent & Awning Company. No. 145,806; Aug. 16; v. 289; p. 597.
Bearings and pumps and air-compressors, grease-guns, &c. Overseas Motor Service Corporation. No. 145,760; Aug. 16; v. 289; p. 596.
Bedspreads. Marshall Field & Company. Nos. 145,663–4; Aug. 16; v. 289; p. 593.
Belting, Leather. Chicago Belting Company. No. 145,627; Aug. 16; v. 289; p. 592.
Belting, Leather. I. B. Williams and Sons. No. 145,868; Aug. 16; v. 289; p. 599.
Beverage, Non-alcoholic fruit. C. A. Cawley. No. 145,623; Aug. 16; v. 289; p. 592.
Beverage, Non-intoxicating maltless. B. & C. Mfg. Co. No. 145,603; Aug. 16; v. 289; p. 591.
Beverages, malt extracts, &c., Certain. Val Blatz Brewing Co. No. 145,611; Aug. 16; v. 289; p. 591.
Beverages, malt extracts, near beer, &c., Certain. Val Blatz Brewing Company. No. 145,846; Aug. 16; v. 289; p. 599.
Bicycles. D. P. Harris Hardware & Manufacturing Co. Nos. 145,686–7; Aug. 16; v. 289; p. 594.
Bicycles, tricycles, velocipedes, motorcycles, and parts thereof. Broadway Cycle Co. No. 145,617; Aug. 16; v. 289; p. 592.
Blacking and dressing iron surfaces, Preparation for. Pingo Company. No. 145,641; Aug. 16; v. 289; p. 592.

Blood-purifier. San Miguel Medicine Co. No. 145,746; Aug. 16; v. 289; p. 595.
Blouses and bloomers, Children's. Peter Pan Co. No. 145,776; Aug. 16; v. 289; p. 596.
Blouses, Ladies'. Lerner Waist Co. Nos. 145,715–16; Aug. 16; v. 289; p. 594.
Blouses, Ladies'. Lorraine Stores Corporation. No. 145,732; Aug. 16; v. 289; p. 595.
Boiler compound. Dearborn Chemical Company. No. 145,649; Aug. 16; v. 289; p. 592.
Boots and shoes. Pennington-Crowell Shoe Company. No. 145,774; Aug. 16; v. 289; p. 596.
Boots, shoes and slippers. Thomas G. Plant Company. No. 145,781; Aug. 16; v. 289; p. 597.
Building wall and partition panels. J. A. Birkhols. No. 145,608; Aug. 16; v. 289; p. 591.
Candies. Eye Brand Confectionery. No. 145,660; Aug. 16; v. 289; p. 593.
Candies. Giachini Candy Co. No. 145,889; Aug. 16; v. 289; p. 602.
Candy. A. A. Kraft Co. No. 145,710; Aug. 16; v. 289; p. 594.
Candy. Polly Trent Candy Co. No. 145,901; Aug. 16; v. 289; p. 603.
Candy, Package-. Vogan Candy Company. No. 145,850; Aug. 16; v. 289; p. 599.
Canned and preserved fruits. G. E. Hyde. No. 145,696; Aug. 16; v. 289; p. 594.
Canned fruits. Reedley Canning Co. Nos. 145,793–4; Aug. 16; v. 289; p. 597.
Canned salmon and herring. The Alaska Salmon & Herring Packers. No. 145,590; Aug. 16; v. 289; p. 591.
Canned sardines. Seacoast Canning Co. No. 145,809; Aug. 16; v. 289; p. 597.
Cars, Pleasure motor-. H. E. Cross. Nos. 145,644–5; Aug. 16; v. 289; p. 592.
Caskets and coffins. North St. Paul Casket Company. No. 145,764; Aug. 16; v. 289; p. 596.
Cement blocks. Ideal Cement Stone Company. No. 145,697; Aug. 16; v. 289; p. 594.
Chemical and pharmaceutical preparations, Certain. Globe Grocery Stores. No. 145,881; Aug. 16; v. 289; p. 593.
Chemical sterilizer, deodorizer, and cleanser. Abbott Laboratories, The. No. 145,589; Aug. 16; v. 289; p. 591.
Chemical substances. Johnson & Sons Manufacturing Chemists. No. 145,701; Aug. 16; v. 289; p. 594.
Chocolates. Bradas & Gheens. No. 145,614; Aug. 16; v. 289; p. 591.
Chocolates, Cup-. Mexican Products Co. No. 145,744; Aug. 16; v. 289; p. 595.
Cleansing composition and soap. Paget Manufacturing Company. No. 145,771; Aug. 16; v. 289; p. 596.
Clothing. A. Fuchs. No. 145,671; Aug. 16; v. 289; p. 593.
Clothing. Robert Reis & Co. No. 145,798; Aug. 16; v. 289; p. 597.
Clothing. M. Rosenthal. No. 145,801; Aug. 16; v. 289; p. 597.
Clothing. United States and South America Corporation. No. 145,844; Aug. 16; v. 289; p. 598.
Clothing, Certain. Maass & Kemper. No. 145,738; Aug. 16; v. 289; p. 595.
Clothing, Certain. R. E. Tyson. No. 145,843; Aug. 16; v. 289; p. 598.
Clothing, Certain articles of. Richard Haworth and Company. No. 145,797; Aug. 16; v. 289; p. 597.
Clutch-facings and brake-linings. Durwyllan Co. No. 145,653; Aug. 16; v. 289; p. 593.
Coal, Bituminous. International Coal & Mining Co. No. 145,699; Aug. 16; v. 289; p. 594.
Coats, Men's, women's, and children's. B. Bernson. No. 145,607; Aug. 16; v. 289; p. 591.
Coats, trousers, vests, &c. Louis Holtz & Sons. No. 145,692; Aug. 16; v. 289; p. 594.
Cocoa, Prepared. Crandall Pettee Co., The. No. 145,885; Aug. 16; v. 289; p. 601.
Coffee. J. K. Smith & Co. No. 145,904; Aug. 16; v. 289; p. 603.
Coffee, tea, spices, &c. Andrus-Scofield Co. No. 145,598; Aug. 16; v. 289; p. 591.
Combs, barrettes, and hairpins. Newark Tortoise Shell Novelty Co. No. 145,895; Aug. 16; v. 289; p. 602.
Containers, Thermally-insulated. Challenge High Vacuum Company. No. 145,624; Aug. 16; v. 289; p. 592.
Corset bones and stays. American Hard Rubber Company. No. 145,595; Aug. 16; v. 289; p. 591.
Corsets and brassières. American Lady Corset Company. No. 145,596; Aug. 16; v. 289; p. 591.
Corsets and corset-waists. Kalamazoo Corset Company. No. 145,704; Aug. 16; v. 289; p. 594.
Cotton piece goods. Pacific Mills. No. 145,770; Aug. 16; p. 289; p. 596.
Cough-drops. R. Suter. No. 145,661; Aug. 16; v. 289; p. 593.
Cream, Shaving-. J. F. Grady. No. 145,679; Aug. 16; v. 289; p. 593.
Cravats and neckties. Meyerson-Levine & Company. No. 145,745; Aug. 16; v. 289; p. 595.
Culverts, Metal. Highway Iron Products Co. No. 145,690; Aug. 16; v. 289; p. 594.
Cushions, Arch and heel. L. G. & S. S. Co. No. 145,724; Aug. 16; v. 289; p. 595.
Dental suction-retainers. J. Petry. No. 145,900; Aug. 16; v. 289; p. 603.
Diatomaceous filters. Allen Filter Company, The. No. 145,881; Aug. 16; v. 289; p. 601.
Disinfectant. Coal Tar Products Inc. No. 145,631; Aug. 16; v. 289; p. 592.
Dresses, middy-blouses, skirts, and bloomers for girls, misses, and ladies. Jungmann-Landecker Garment Co. No. 145,703; Aug. 16; v. 289; p. 594.
Dresses, Misses' and children's. Cooper, Coate & Casey Dry Goods Co. No. 145,640; Aug. 16; v. 289; p. 592.
Dress-protector. I. M. Weisert. No. 145,858; Aug. 16; v. 289; p. 599.
Dresses, suits, pants, rompers, &c., for women and children. G. Pfeffer. No. 145,777; Aug. 16; v. 289; p. 596.
Dresses, waists, coats, suits, and skirts. Lipson & Adelson. No. 145,728; Aug. 16; v. 289; p. 595.
Dye. L. E Scofield. No. 145,903; Aug. 16; v. 289; p. 603.
Dye, Hair-. Schemer Hair Colorine Company. No. 145,807; Aug. 16; v. 289; p. 597.
Dye, Leather-. Whittemore Brothers Corporation. No. 145,865; Aug. 16; v. 289; p. 599.
Dyes. Tah Chang Sen & Co. Nos. 145,834–7; Aug. 16; v. 289; p. 598.
Dyes, Aniline. E. M. Thayer. No. 145,838; Aug. 16; v. 289; p. 598.
Dyes, Coal-tar. John Campbell & Co. No. 145,621; Aug. 16; v. 289; p. 592.
Dyes in the form of indigo paste. Tah Chang Sen & Co. Nos. 145,832–3; Aug. 16; v. 289; p. 598.
Dyestuffs. E. I. du Pont de Nemours & Company. No. 145,655; Aug. 16; v. 289; p. 593.
Electrical motors. New Era Motor Corporation. No. 145,760; Aug. 16; v. 289; p. 596.
Electric sadirons. Dover Manufacturing Company, The. No. 145,887; Aug. 16; v. 289; p. 601.
Enamel, paste, paints, lacquers, polish, and varnishes, ready-mixed. Patek Brothers. No. 145,898; Aug. 16; v. 289; p. 603.
Fabrics, Preparation for increasing wearing properties of. Prevento-Hole, Inc. No. 145,786; Aug. 16; v. 289; p. 597.
Fat, salad and cooking oils, Pure. E. Klein. No. 145,709; Aug. 16; v. 289; p. 594.
Feeds, Hen and horse and mule. Luehrmann Hay & Grain Co. No. 145,733; Aug. 16; v. 289; p. 595.
Fertilizer. Société d'Etudes Chimiques pour l'Industrie. No. 145,816; Aug. 16; v. 289; p. 598.
Fire-bricks and paving-blocks. Geo. S. Good Fire Brick Co. No. 145,676; Aug. 16; v. 289; p. 593.
Fire-hose, Fabric. Chas. Niedner's Sons Company. No. 145,761; Aug. 16; v. 289; p. 596.
Fireproof fabrics for lamp-shades. E. Dancig. No. 145,650; Aug. 16; v. 289; p. 593.
Fishing-reels. The Peters Bait Co. No. 145,899; Aug. 16; v. 289; p. 603.
Flour, Diabetic. Curdolac Food Co. No. 145,646; Aug. 16; v. 289; p. 592.
Flour, Pancake-. E. G. Smyth Co. No. 145,815; Aug. 16; v. 289; p. 598.
Flour, Wheat-. Colorado Milling & Elevator Company. No. 145,636; Aug. 16; v. 289; p. 592.
Flour, Wheat-. Fisher Flouring Mills Company. No. 145,665; Aug. 16; v. 289; p. 593.
Flour, Wheat-. Luehrmann Hay & Grain Co. No. 145,734; Aug. 16; v. 289; p. 595.
Food, Poultry. H. D. Linker. No. 145,727; Aug. 16; v. 289; p. 595.
Food, Stock and poultry. Goodenuf Milling & Feed Co. No. 145,677; Aug. 16; v. 289; p. 593.
Fruits, Fresh citrus. Lake Hamilton Citrus Growers Association. No. 145,712; Aug. 16; v. 289; p. 594.
Furnaces, Coal, gas, and wood. Williamson Heater Company. No. 145,870; Aug. 16; v. 289; p. 599.
Garments, Men's and children's outer. Cohen, Goldman & Co. No. 145,632; Aug. 16; v. 289; p. 592.
Gaskets. Carter Carburetor Company. No. 145,622; Aug. 16; v. 289; p. 592.
Glassware. Imperial Glass Company. No. 145,698; Aug. 16; v. 289; p. 594.
Gum and candy, Chewing-. Listerated Gum Corporation. No. 145,729; Aug. 16; v. 289; p. 595.
Hair-nets. H. Meuer. No. 145,743; Aug. 16; v. 289; p. 595.
Hair-nets. Samstag & Hilder Bros. No. 145,804; Aug. 16; v. 289; p. 597.
Hair restorer, shampoo, and tonic. Norton, Rogers & Hunter. No. 145,765; Aug. 16; v. 289; p. 596.
Hair-tonic. M. A. Keffer. No. 145,706; Aug. 16; v. 289; p. 594.
Hair-tonic. F. E. Williams. No. 145,867; Aug. 16; v. 289; p. 599.
Hair-tonic, shampoo, &c. Mrs. N. A. Franklin. No. 145,670; Aug. 16; v. 289; p. 593.
Hair-waving fluids. L. M. Garrity & Co. No. 145,672; Aug. 16; v. 289; p. 593.
Hats and caps, Felt. John B. Stetson Company. Nos. 145,824–6; Aug. 16; v. 289; p. 598.
Hats and hat-frames. Robinson Straus & Co. No. 145,827; Aug. 16; v. 289; p. 598.
Hats for female wear. Emporium-World Millinery Co. Nos. 145,658–9; Aug. 16; v. 289; p. 593.
Hats for men and women. H. S. Morand. No. 145,750; Aug. 16; v. 289; p. 596.

Hats, Men's. McKibbin, Driscoll & Dorsey. No. 145,736; Aug. 16; v. 289; p. 595.
Heaters, Asphalt and tar. Kinney Manufacturing Company. Nos. 145,892–3; Aug. 16; v. 289; p. 602.
Heel-cushions. L. G. & S. S. Co. No. 145,721; Aug. 16; v. 289; p. 595.
Heel-cushions and heel-cushion and instep raisers. L. G. & S. S. Co. No. 145,720; Aug. 16; v. 289; p. 595.
Heel-lining repairers. L. G. & S. S. Co. No. 145,726; Aug. 16; v. 289; p. 595.
Hooks, Grass-. Wiebusch & Hilger. No. 145,866; Aug. 16; v. 289; p. 599.
Hose. Whitehead Bros. Rubber Co. No. 145,864; Aug. 16; v. 289; p. 599.
Hose and sweaters for boys. Hand Knit Hosiery Co. No. 145,683; Aug. 16; v. 289; p. 594.
Hosiery. American Dry Goods Company of New York. No. 145,594; Aug. 16; v. 289; p. 591.
Hosiery. Beacon Falls Rubber Shoe Company. No. 145,604; Aug. 16; v. 289; p. 591.
Hosiery. Chipman Knitting Mills. No. 145,628; Aug. 16; v. 289; p. 592.
Hosiery. S. Kaufman. No. 145,705; Aug. 16; v. 289; p. 594.
Hosiery. H. D. Leinbach. No. 145,714; Aug. 16; v. 289; p. 594.
Hosiery. A. V. Victorius & Company. No. 145,849; Aug. 16; v. 289; p. 599.
Hosiery and knitted underwear. Perfection Mills, Inc. No. 145,775; Aug. 16; v. 289; p. 596.
Hosiery and underwear. Munsingwear Corporation. Nos. 145,752–3; Aug. 16; v. 289; p. 596.
Hosiery, underwear, sweaters. Kyle-Gettys Company. No. 145,711; Aug. 16; v. 289; p. 594.
Hunstock, R. H., Chemical Co., St. Louis, Mo. Pills for biliousness, constipation, headaches, &c. No. 145,693; Aug. 16; v. 289; p. 594.
Ice-cream. Beatrice Creamery Company. No. 145,605; Aug. 16; v. 289; p. 591.
Ict-cream. Breyer Ice Cream Company. No. 145,616; Aug. 16; v. 289; p. 591.
Induction-coils and wireless apparatus. Eugene T. Turney Laboratories, Incorporated. No. 145,842; Aug. 16; v. 289; p. 598.
Insecticides, fungicides, &c., for plants. Morgan Chemical Corporation. No. 145,751; Aug. 16; v. 289; p. 596.
Insectifuge. Mentholatum Company. No. 145,739; Aug. 16; v. 289; p. 595.
Insect-powder. R. H. Hunstock Chemical Co. No. 145,694; Aug. 16; v. 289; p. 594.
Insoles. L. G. & S. S. Co. No. 145,722; Aug. 16; v. 289; p. 595.
Insoles, Cushion-. L. G. & S. S. Co. No. 145,723; Aug. 16; v. 289; p. 595.
Knit hosiery. Black Cat Textiles Company. No. 145,609; Aug. 16; v. 289; p. 591.
Knit union-suits, men's fine shirts, &c. Croft Stanard Company. No. 145,643; Aug. 16; v. 289; p. 592.
Knitted and stocking caps. Keller Knitting Company. No. 145,787; Aug. 16; v. 289; p. 597.
Lamps, Acetylene-. A. L. Hansen Mfg. Co. No. 145,684; Aug. 16; v. 289; p. 594.
Laxative and liver pills. H. M. Freck. No. 145,669; Aug. 16; v. 289; p. 593.
Leather. Amalgamated Leather Company, Inc. No. 145,592; Aug. 16; v. 289; p. 591.
Leather, Patent-. A. C. Lawrence Leather Company. No. 145,713; Aug. 16; v. 289; p. 594.
Leather, Sole-. H. Levy. No. 145,717; Aug. 16; v. 289; p. 595.
Liquid paint. Wadsworth, Howland & Co., Inc. No. 145,922; Aug. 16; v. 289; p. 605.
Lotions, Skin-. Nouquie Company. No. 145,766; Aug. 16; v. 289; p. 596.
Lozenge, Medicinal. R. A. Bagley. No. 145,601; Aug. 16; v. 289; p. 591.
Lubricating jelly, Antiseptic. Sharp & Dohme. No. 145,811; Aug. 16; v. 289; p. 597.
Lumber and timber. Wisconsin Lumber Company. No. 145,875; Aug. 16; v. 289; p. 599.
Marble and cut stone. Georgia Marble Company. Nos. 145,673–4; Aug. 16; v. 289; p. 593.
Mayonnaise. J. H. Zetzsche. No. 145,879; Aug. 16; v. 289; p. 600.
Medical substance in powdered form, Antiseptic. Winthrop Chemical Company. No. 145,873; Aug. 16; v. 289; p. 599.
Medicinal preparations. H. E. McLean. No. 145,737; Aug. 16; v. 289; p. 595.
Medicinal powders and tablets. Ware Chemical Co. No. 145,855; Aug. 16; v. 289; p. 599.
Medicinal preparation used as a remedy for coughs and colds. A. D. Holland. No. 145,691; Aug. 16; v. 289; p. 594.
Medicinal preparation for rheumatism, &c. L. B. Lewis. No. 145,719; Aug. 16; v. 289; p. 595.
Medicinal preparation for treatment of the liver and kidneys. Rose Drug Company. No. 145,800; Aug. 16; v. 289; p. 597.
Medicinal tablets. John Wyeth & Brother. No. 145,877; Aug. 16; v. 289; p. 600.
Medicine for cholera, &c., in poultry. F. A. Beede. No 145,606; Aug. 16; v. 289; p. 591.
Medicine for coughs, colds, and bronchial affections. Frederick Stearns & Company. No. 145,823; Aug. 16; v. 289; p. 598.
Medicine for coughs, colds, and bronchitis. G. H. W. Reither. No. 145,902; Aug. 16; v. 289; p. 603.
Medicine for scours. I. White. No. 145,863; Aug. 16; v. 289; p. 599.
Medicine for torpid liver, anemia, &c. D. Swift. No. 145,831; Aug. 16; v. 289; p. 598.
Milk, Condensed. Nestlé's Food Company. No. 145,758; Aug. 16; v. 289; p. 596.
Milk, Malted. Nestlé's Food Company. No. 145,757; Aug. 16; v. 289; p. 596.
Milk, Sterilized. Nestlé's Food Company. No. 145,759; Aug. 16; v. 289; p. 596.
Moccasins. Brockton Moccasin Co. No. 145,618; Aug. 16; v. 289; p. 592.
Molasses and malt. G. W. Harrington. No. 145,685; Aug. 16; v. 289; p. 594.
Motorcycles and bicycles. Edwards & Crist Co. No. 145,656; Aug. 16; v. 289; p. 593.
Mouth-wash for use in curing the tobacco habit. L. D. Van Cleave. No. 145,847; Aug. 16; v. 289; p. 599.
Nail-polish. F. C. Irish. No. 145,700; Aug. 16; v. 289; p. 594.
Neckties and cravats, Men's. Sunshine Neckwear Company. No. 145,829; Aug. 16; v. 289; p. 598.
Newspaper-section issued weekly. Lord & Taylor. No. 145,731; Aug. 16; v. 289; p. 595.
Newspaper-sections. W. Donahey. No. 145,651; Aug. 16; v. 289; p. 593.
Oil, Eucalyptus-. J. Bosisto & Co. Proprietary Limited. No. 145,613; Aug. 16; v. 289; p. 591.
Oil, Liquid fuel-. Standard Oil Company. No. 145,822; Aug. 16; v. 289; p. 598.
Oils and essences suitable for production of perfumes, Natural and synthetic. Chemical Works Flora. No. 145,883; Aug. 16; v. 289; p. 601.
Oils and greases, Certain. Phiny Brothers Company. No. 145,778; Aug. 16; v. 289; p. 596.
Oils, greases, waxes, &c. Vacuum Oil Company. No. 145,845; Aug. 16; v. 289; p. 599.
Oils, Paint-. E. I. du Pont de Nemours & Company. No. 145,888; Aug. 16; v. 289; p. 602.
Ointment for certain ailments. A. J. Ward. No. 145,854; Aug. 16; v. 289; p. 599.
Oranges, grapefruit, pineapples. Porto Rico Fruit Exchange. No. 145,783; Aug. 16; v. 289; p. 597.
Overalls. Brooklyn Overall Company. No. 145,619; Aug. 16; v. 289; p. 592.
Overalls, jumper-coats, and unionalls. D. D. Metcalf. Nos. 145,740–1; Aug. 16; v. 289; p. 595.
Packing, Sheet-. Smooth-On Manufacturing Company. No. 145,813; Aug. 16; v. 289; p. 597.
Paints, Ready-mixed. Patek Brothers. No. 145,897; Aug. 16; v. 289; p. 603.
Paints, Ready-mixed. Seattle Paint Company. No. 145,810; Aug. 16; v. 289; p. 597.
Paints, velour blanc, oil-colors, and zinc paste, House-. Sunset Paint Company. No. 145,828; Aug. 16; v. 289; p. 598.
Palliative for Rigg's disease. F. W. Clements. No. 145,630; Aug. 16; v. 289; p. 592.
Paper and stationery. White & Wyckoff Manufacturing Company. No. 145,925; Aug. 16; v. 289; p. 605.
Paper napkins. Groff Paper Company. No. 145,890; Aug. 16; v. 289; p. 602.
Paper, Napkins, towels, and toilet. A. P. W. Paper Company. No. 145,882; Aug. 16; v. 289; p. 601.
Paper, Printing-. S. D. Warren Company. No. 145,924; Aug. 16; v. 289; p. 605.
Perfumes. G. C. Spencer. No. 145,920; Aug. 16; v. 289; p. 605.
Perfume, toilet water, rouge, &c. Mark W. Allen & Co. No. 145,591; Aug. 16; v. 289; p. 591.
Periodical, Monthly. Pressure Proof Piston Ring Company. No. 145,785; Aug. 16; v. 289; p. 597.
Periodical, Monthly. Wesco, Inc. No. 145,859; Aug. 16; v. 289; p. 599.
Petroleum jelly. Noco Petroleum Company. No. 145,763; Aug. 16; v. 289; p. 596.
Pharmaceutical preparation. Society of Chemical Industry in Basle. No. 145,817; Aug. 16; v. 289; p. 598.
Pharmaceutical preparations. E. C. Breisford. No. 145,615; Aug. 16; v. 289; p. 591.
Phonographs and parts therefor, records, and needles. Doherty Phonograph Company, Inc. No. 145,886; Aug. 16; v. 289; p. 601.
Photographic developers. Johnson & Sons Manufacturing Chemists. No. 145,702; Aug. 16; v. 289; p. 594.
Photographic prints. Fleet Photo Service. No. 145,666; Aug. 16; v. 289; p. 593.
Piston-rings. Nilson-Miller Company. No. 145,762; Aug. 16; v. 289; p. 596.
Pocketbooks, wallets, card-cases, &c. Charles K. Cook, Incorporated. No. 145,638; Aug. 16; v. 289; p. 592.
Polish for painted, varnished, waxed, and similar surfaces. W. T. Rawleigh Company. No. 145,790; Aug. 16; v. 289; p. 597.
Poultry and smoke houses, Sheet-metal. Wheeling Corrugating Company. No. 145,860; Aug. 16; v. 289; p. 599.
Poultry medicine. C. H. Weber. No. 145,857; Aug. 16; v. 289; p. 599.
Powder, Talcum. A. P. Babcock Company. No. 145,600; Aug. 16; v. 289; p. 591.
Powders, rouge, &c., Talcum, face, and compact. M. Levy. No. 145,718; Aug. 16; v. 289; p. 595.
Preparation for chapped hands, scalds, burns, sunburn. B. Walker. No. 145,923; Aug. 16; v. 289; p. 605.

Preparation for stimulating the growth of hair. Madam S. McAllister. No. 145,735; Aug. 16; v. 289; p. 595.
Preparation for treating gasolene, &c., for producing more power in motors using above fuels. F. C. Schussler. No. 145,808; Aug. 16; v. 289; p. 597.
Preparation for the treatment of kinky hair. Zenith Mfg. Co. No. 145,878; Aug. 16; v. 289; p. 600.
Preparation to prevent perspiration. S. S. Pierce Co. No. 145,779; Aug. 16; v. 289; p. 596.
Preparations for medicinal purposes. Druggists' Wholesale Supply Corporation. No. 145,652; Aug. 16; v. 289; p. 593.
Preparations for the treatment of boils, burns, wounds, &c. S. Fosmantier. No. 145,784; Aug. 16; v. 289; p. 597.
Preparations for the treatment of indigestion. P. Cohen. No. 145,634; Aug. 16; v. 289; p. 592.
Printers' blankets. Crocker-McElwain Company. No. 145,642; Aug. 16; v. 289; p. 592.
Publication, Monthly. El Comercio Publishing Corporation. No. 145,657; Aug. 16; v. 289; p. 593.
Publication, Monthly. S. S. White Dental Manufacturing Company. No. 145,861; Aug. 16; v. 289; p. 599.
Publication, Weekly. Baynor, Nicholas & Truesdell. No. 145,792; Aug. 16; v. 289; p. 597.
Publications, Monthly. Kirschenbaum Corporation. No. 145,708; Aug. 16; v. 289; p. 594.
Publications, Monthly. Pitchfork Company. No. 145,780; Aug. 16; v. 289; p. 596.
Raw or partly-prepared materials. Chandless & Co. No. 145,625; Aug. 16; v. 289; p. 592.
Remedy against syphilis, sleeping-sickness, &c. H. A. Metz Laboratories. No. 145,742; Aug. 16; v. 289; p. 595.
Remedy for certain ailments. Geo. C. Cook & Co. No. 145,639; Aug. 16; v. 289; p. 592.
Remedy for congested liver, constipation, and corpulency. H. A. Fenner. No. 145,662; Aug. 16; v. 289; p. 593.
Remedy for diarrhea, &c. Ware Chemical Co. No. 145,856; Aug. 16; v. 289; p. 599.
Salve. J. S. Chism. No. 145,629; Aug. 16; v. 289; p. 592.
Salve, Antiseptic healing-. M. Zielinski. No. 145,880; Aug. 16; v. 289; p. 600.
Salve for inflammations. W. S. Vick Chemical Co. No. 145,848; Aug. 16; v. 289; p. 599.
Salve for sores, cuts, and piles. Austen Cologne Company. No. 145,599; Aug. 16; v. 289; p. 591.
Shingles and slates. National Asbestos Mfg. Co. No. 145,754; Aug. 16; v. 289; p. 596.
Shingles, roofing tile and slabs, &c. Vulcanite Roofing Company. Nos. 145,851–2; Aug. 16; v. 289; p. 599.
Shirtwaists and blouses, Ladies'. O. F. Grab & Co. No. 145,678; Aug. 16; v. 289; p. 593.
Shoes. N. P. Turnbladh. No. 145,841; Aug. 16; v. 289; p. 598.
Shoes for children and infants. I. Miller and Sons. No. 145,747; Aug. 16; v. 289; p. 595.
Shoes, pumps, slippers, Women's. Rialto Shoe Co. No. 145,796; Aug. 16; v. 289; p. 597.
Shoes, Leather. G. Burkman. No. 145,620; Aug. 16; v. 289; p. 592.
Soap. Saberton Mfg. Co. No. 145,802; Aug. 16; v. 289; p. 597.
Soap, Skin-. Radior Co. Ltd. of London. No. 145,789; Aug. 16; v. 289; p. 597.
Soaps. Colgate & Company. No. 145,635; Aug. 16; v. 289; p. 592.
Soles, Quilted. L. G. & S. S. Co. No. 145,725; Aug. 16; v. 289; p. 595.
Soporific drug preparation. Winthrop Chemical Company. No. 145,874; Aug. 16; v. 289; p. 599.
Stain-remover, Chemical. J. A. Ortlieb. No. 145,767; Aug. 16; v. 289; p. 596.
Stockings, Silk. American Dry Goods Company of New York. No. 145,593; Aug. 16; v. 289; p. 591.
Stones for treating eye disease. S. Svider. No. 145,830; Aug. 16; v. 289; p. 598.
Stoves, Oil-. National Enameling & Stamping Co. No. 145,755; Aug. 16; v. 289; p. 596.
Structural compositions, Autosolidifying. Flex-Or-Crete Corporation. No. 145,667; Aug. 16; v. 289; p. 593.
Stucco and stucco materials. Cheney & Co. No. 145,626; Aug. 16; v. 289; p. 592.
Suits and overcoats, Men's and young men's. Plimack Brothers. No. 145,782; Aug. 16; v. 289; p. 597.
Suits, coats, dresses, Ladies'. Salomon, Blum and Co. No. 145,803; Aug. 6; v. 289; p. 597.
Suits, trousers, and overcoats. Woodhull, Goodale & Bull. No. 145,876; Aug. 16; v. 289; p. 600.
Syrup for making malt beverages, Malt-. A. H. Frankel. No. 145,668; Aug. 16; v. 289; p. 593.
Syrup used in making malt beverages, Malt-. M. J. Davis. No. 145,647; Aug. 16; v. 289; p. 592.
Talking-machines, phonographs, and music-boxes. Sonora, Inc. Nos. 145,905–19; Aug. 16; v. 289; pp. 603–5.
Therapeutic preparation for treatment of tuberculosis. B. S. Paschall. No. 145,773; Aug. 16; v. 289; p. 596.
Tires, Dayton Rubber Mfg. Company. No. 145,648; Aug. 16; v. 289; p. 592.
Tires and inner tubes, Rubber. Standard Four Tire Company. No. 145,821; Aug. 16; v. 289; p. 598.
Tires for vehicles and inner tubes for pneumatic tires. Standard Four Tire Company. No. 145,820; Aug. 16; v. 289; p. 598.
Tires made of rubber, Vehicle-. Revere Rubber Company. No. 145,795; Aug. 16; v. 289; p. 597.
Tires, Rubber and fabric. Racine Rubber Company. No. 145,788; Aug. 16; v. 289; p. 597.
Tires, Rubber vehicle-. Standard Tire Company. No. 145,819; Aug. 16; v. 289; p. 598.
Titanium sulfate. Peter Spence & Sons. No. 145,818; Aug. 16; v. 289; p. 598.
Toilet preparations. J. M. Blanco. No. 145,610; Aug. 16; v. 289; p. 591.
Toilet preparations, Certain. Blendinol Co. No. 145,612; Aug. 16; v. 289; p. 591.
Toilet preparations. Est. Henry C. Miner, Inc. No. 145,748; Aug. 16; v. 289; p. 595.
Toilet preparations. F. J. London. No. 145,730; Aug. 16; v. 289; p. 595.
Toilet preparations. National Pharmaceutical Corporation. No. 145,756; Aug. 16; v. 289; p. 596.
Toilet preparations. W. T. Rawleigh Company. No. 145,791; Aug. 16; v. 289; p. 597.
Tonic, General. Thompson and Capper. No. 145,839; Aug. 16; v. 289; p. 598.
Tonic, Hog-. O. D. Crawcock. No. 145,680; Aug. 16; v. 289; p. 593.
Tonic, Medicinal. E. L. Kilcoyne. No. 145,707; Aug. 16; v. 289; p. 594.
Tonic, Reconstructive. P. A. Williams. No. 145,869; Aug. 16; v. 289; p. 599.
Toy balloons and sponge-rubber balls. Miller Rubber Company, The. No. 145,894; Aug. 16; v. 289; p. 602.
Toys, Certain. A. C. Gilbert Company. No. 145,675; Aug. 16; v. 289; p. 593.
Trucks and automobiles, Motor-. Sandow Motor Truck Co. No. 145,805; Aug. 16; v. 289; p. 597.
Trucks and slip-joint propeller-shafts complemental thereto, Frame extension for worm-driven. Hudson Motor Specialties Company. No. 145,695; Aug. 16; v. 289; p. 594.
Typewriter-ribbons. Columbia Ribbon & Carbon Mfg. Co. No. 145,884; Aug. 16; v. 289; p. 601.
Underwear for men, Athletic. C. E. Shedaker & Sons. No. 145,812; Aug. 16; v. 289; p. 597.
Union-suits, undershirts, and underdrawers, Men's and boys'. Hall, Hartwell & Co. No. 145,682; Aug. 16; v. 289; p. 593.
Varnishes. Wadsworth, Howland & Co. No. 145,853; Aug. 16; v. 289; p. 599.
Varnishes, varnish coating paint enamels, paste, &c. Unbefer Varnish Company. No. 145,921; Aug. 16; v. 289; p. 605.
Vehicle-bodies. Holbrook Co., The. No. 145,891; Aug. 16; v. 289; p. 602.
Vehicles, Motor-. Columbia Motors Company. No. 145,637; Aug. 16; v. 289; p. 592.
Voile in the piece, Cotton. Cohn Hall Marx Co. No. 145,633; Aug. 16; v. 289; p. 592.
Wagon-hounds. Dultmeier Manufacturing Company. No. 145,654; Aug. 16; v. 289; p. 593.
Waterproof coating for textiles and leather. J. H. Overton. No. 145,768; v. 289; p. 596.
Wax for sewing-thread, Liquid. J. T. Roebuck. No. 145,799; v. 289; p. 597.
Worm-destroyer, hog-tonic, poultry-regulator. Dr. Charles S. Moore. No. 145,749; Aug. 16; v. 289; p. 595.
Yarns. American Trading Company. No. 145,597; Aug. 16; v. 289; p. 591.
Yarns. J. E. Barbour Company. No. 145,602; Aug. 16; v. 289; p. 391.
Zinc-white. Orr's Zinc White Limited. No. 145,896; Aug. 16; v. 289; p. 602.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Air-compressors, pumps, turbines, and turbine-engines. Nash Engineering Co. No. 148,751; Aug. 16; v. 289; p. 588.
Ammonia, lye, sanitary powder, &c. Citizen's Wholesale Supply Co. No. 143,256; Aug. 16; v. 289; p. 571.
Automobile and furniture polish. J. W. Olts. No. 133,555; Aug. 16; v. 289; p. 564.
Automobile bodies and tops. Limousine Body Co. No. 149,970; Aug. 16; v. 289; p. 590.
Automobile-bumpers. Milwaukee Auto Engine & Supply Company. No. 147,790; Aug. 16; v. 289; p. 586.
Automobiles. C. H. Wills & Company. No. 148,414; Aug. 16; v. 289; p. 587.
Automobiles and chassis for automobiles, bicycles, and aeroplanes. Minerva Motors. No. 139,215; Aug. 16; v. 289; p. 567.
Automobiles and lorries. Société Lyonnaise d'Industrie Mecanique. No. 135,175; Aug. 16; v. 289; p. 564.
Automobiles, motor-boats, aeroplanes, motorcycles. Guy Motors Ltd. No. 134,485; Aug. 16; v. 289; p. 564.
Automobiles, Rear-view mirrors for. Sargent Company. No. 148,092; Aug. 16; v. 289; p. 587.
Bacon. John Morrell & Company. No. 147,368; Aug. 16; v. 289; p. 584.
Batteries, Dry-cell. French Battery & Carbon Co. No. 146,704; Aug. 16; v. 289; p. 580.
Batteries, Storage. J. S. Neidich. No. 147,041; Aug. 16; v. 289; p. 582.
Bearings. W. L. Sandage. No. 147,643; Aug. 16; v. 289; p. 585.
Belting, Cotton-stitched. Gandy Belting Company. No. 148,140; Aug. 16; v. 289; p. 587.
Beverage and syrup for making same, Non-alcoholic, maltless, artificial grape. P. E. Barnett. No. 143,482; Aug. 16; v. 289; p. 571.
Beverage, Non-alcoholic, non-cereal, maltless. M. Brock and A. B. Praetsch. No. 145,667; Aug. 16; v. 289; p. 575.
Beverage, Non-alcoholic, non-cereal, maltless. U. L. Davies. No. 134,465; Aug. 16; v. 289; p. 564.
Beverage, Non-alcoholic, non-cereal, maltless. G. N. Prokos. No. 147,044; Aug. 16; v. 289; p. 582.
Beverage, Non-alcoholic, maltless. H. W. Van Doren. No. 137,793; Aug. 16; v. 289; p. 565.
Beverage, Non-intoxicating, maltless, non-cereal. Pearl City Fruit Company. No. 142,450; Aug. 16; v. 289; p. 570.
Beverages and syrups for making same. Acme Beverage Extract Co. No. 146,945; Aug. 16; v. 289; p. 581.
Beverages and syrups for the same, Non-alcoholic, non-cereal. Coca Cola Bottling Distributing Co. No. 142,776; Aug. 16; v. 289; p. 570.
Beverages and syrups for making same. E. Diehl. No. 145,772; Aug. 16; v. 289; p. 576.
Beverages and syrups for making, Non-alcoholic, non-cereal, maltless. H. H. Nelson. No. 144,832; Aug. 16; v. 289; p. 574.
Beverages and syrups for making, Non-alcoholic, non-cereal, maltless. V. O. Robertson. No. 142,807; Aug. 16; v. 289; p. 571.
Beverages and syrups for making same, Non-alcoholic, non-cereal, maltless. Orange Surprise Syrup & Bottling Co. No. 144,834; Aug. 16; v. 289; p. 574.
Beverages, Maltless, non-alcoholic, non-cereal. Oregon Growers Cooperative Assn. No. 146,585; Aug. 16; v. 289; p. 579.
Beverages, Maltless, non-alcoholic, non-cereal. Oregon Growers Cooperative Assn. No. 146,588; Aug. 16; v. 289; p. 579.
Beverages, Non-alcoholic, non-cereal, maltless. Service Corp. Nos. 145,756–7; Aug. 16; v. 289; p. 576.
Beverages, Non-intoxicating. H. P. Schroeder. No. 132,817; Aug. 16; v. 289; p. 563.
Biscuits and crackers. J. B. Carr Biscuit Co. No. 132,511; Aug. 16; v. 289; p. 563.
Blood-purifying solution. Piscek & Briscoe. No. 139,046; Aug. 16; v. 289; p. 567.
Bottle and jar openers, egg whips and beaters, &c. Wickwire Spencer Steel Corporation. No. 147,147; Aug. 16; v. 289; p. 582.
Bread, biscuits, and cakes. H. Stahl. No. 145,721; Aug. 16; v. 289; p. 576.
Bricks and drainage-tiles. Acme Brick Company. No. 147,392; Aug. 16; v. 289; p. 584.
Brooms. Richmond Broom Company. No. 143,786; Aug. 16; v. 289; p. 572.
Butter and eggs. Detroit Beef Company. No. 141,455; Aug. 16; v. 289; p. 569.
Buttermilk, Condensed. Commercial Creamery Co. No. 145,548; Aug. 16; v. 289; p. 575.
Cabinets, Domestic shoe-. Shu-Betty Company. No. 136,813; Aug. 16; v. 289; p. 565.
Cake. Ward Baking Company. No. 145,664; Aug. 16; v. 289; p. 575.
Cake, Loaf-. Grocers Baking Company, Inc. No. 145,683; Aug. 16; v. 289; p. 576.
Cakes and cookies. Lantz Bros. Baking Co. No. 137,381; Aug. 16; v. 289; p. 565.
Candles. N. U. Kats. No. 147,726; Aug. 16; v. 289; p. 585.
Candy. Continental Candy Corporation. No. 141,064; Aug. 16; v. 289; p. 568.
Candy. Gerber Company, The. No. 146,310; Aug. 16; v. 289; p. 578.
Candy. Samoset Chocolates Company. No. 147,398; Aug. 16; v. 289; p. 586.
Candy, chocolate-covered nuts, &c. Wandell Chocolate Company. No. 143,112; Aug. 16; v. 289; p. 571.
Canned fish. J. V. Glaconi & Co. No. 145,061; Aug. 16; v. 289; p. 575.
Canned fruits and vegetables. M. Schuckl. No. 147,468; Aug. 16; v. 289; p. 584.
Cars, Passenger motor-. Lexington Motor Company. No. 149,969; Aug. 16; v. 289; p. 590.
Cheese. Gust. & H. Probst A. G. No. 140,032; Aug. 16; v. 289; p. 568.
Cheese. C. Zuercher. No. 145,486; Aug. 16; v. 289; p. 575.
Chemical compound for removing ink from printing-rolls, &c. Charles Enew Johnson & Company. No. 144,916; Aug. 16; v. 289; p. 574.
Chemical compounds. J. H. Longshore. No. 124,485; Aug. 16; v. 289; p. 560.
Chocolate in cake form. Bishop & Company. No. 147,401; Aug. 16; v. 289; p. 584.
Chocolate, Prepared. Pirika Chocolate Co. No. 146,845; Aug. 16; v. 289; p. 580.
Cider. Medina Fruit Products Co. Nos. 140,605–6; Aug. 16; v. 289; p. 568.
Cigars. S. B. Brafman. No. 139,183; Aug. 16; v. 289; p. 567.
Cigars. Estate of Henry B. Grauley. No. 139,120; Aug. 16; v. 289; p. 567.
Cigars. John C. Herman & Company. No. 139,280; Aug. 16; v. 289; p. 567.
Cigarettes and smoking-tobacco. Robert Sinclair Tobacco Company. No. 141,508; Aug. 16; v. 289; p. 569.
Cleaning and polishing furniture, floors, &c., Polish for. Channell Chemical Company. Nos. 144,453–4; Aug. 16; v. 289; p. 573.
Coal. D. E. McMillan & Bro. No. 145,700; Aug. 16; v. 289; p. 576.
Coffee. Fred Wolferman Good Things To Eat Co. No. 146,606; Aug. 16; v. 289; p. 579.
Coffee. Vinson Coffee Company. No. 147,854; Aug. 16; v. 289; p. 586.
Coffee, Raw. Taffae & Pellion. Nos. 147,747–8; Aug. 16; v. 289; p. 585.
Comminuting machinery. Allis-Chalmers Manufacturing Company. No. 148,571; Aug. 16; v. 289; p. 588.
Construction materials made of bituminous waterproof material. A. E. H. Dussek. No. 142,877; Aug. 16; v. 289; p. 571.
Cotton and wool dress goods in the piece. W. W. Rycroft & Co. No. 138,924; Aug. 16; v. 289; p. 567.
Cotton piece goods. Brune, Pottberg & Co. No. 148,017; Aug. 16; v. 289; p. 588.
Cotton piece goods. Pacific Mills. No. 148,850; Aug. 16; v. 289; p. 588.
Cotton piece goods. Smith, Hogg & Co. No. 148,954; Aug. 16; v. 289; p. 589.
Cotton voiles in piece goods. N. Erlanger, Blumgart & Co. Inc. No. 149,129; Aug. 16; v. 289; p. 589.
Cough-drops. I. M. Kreba. No. 147,028; Aug. 16; v. 289; p. 582.
Cream for the complexion. A. E. Reynolds. No. 136,430; Aug. 16; v. 289; p. 565.
Cream, Toilet. M. C. Moore. No. 144,528; Aug. 16; v. 289; p. 574.
Desks. Gunn Furniture Company. No. 144,137; Aug. 16; v. 289; p. 573.
Desks. H. R. Langslow. No. 141,986; Aug. 16; v. 289; p. 569.
Disinfectant and deodorant powders, Undertakers'. Ideal Disinfectant Company. No. 146,969; Aug. 16; v. 289; p. 581.
Disinfectants, insecticides, and deodorants. Sanitas Company. Nos. 146,743–4; Aug. 16; v. 289; p. 580.
Electric ironers. Domestic Manufacturing Company. No. 146,113; Aug. 16; v. 289; p. 577.

Electric-light plants, Unitary. Eastlite Electric Company. No. 147,868; Aug. 16; v. 289; p. 586.
Electric-lighting fixtures. R. C. Plant. No. 145,913; Aug. 16; v. 289; p. 577.
Electric water-pumping outfits, electric fixture parts and fittings, &c. Delta Electric Company. No. 131,628; Aug. 16; v. 289; p. 562.
Envelops, Correspondence-. National Checking Company. No. 146,457; Aug. 16; v. 289; p. 579.
Extract of hops and malt for preparing soft drinks. R. E. Leyendecker. No. 142,626; Aug. 16; v. 289; p. 570.
Extracts, Food flavoring. C. F. Sauer Company. No. 147,899; Aug. 16; v. 289; p. 586.
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Hair-nets. Yeomanette Company. No. 148,961; Aug. 16; v. 289; p. 589.
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Lubricant, lubricant dispensers and compressors, &c., Devices for applying. Bassick Manufacturing Co. No. 143,736; Aug. 16; v. 289; p. 572.
Malt extracts. A. Wielich. No. 141,445; Aug. 16; v. 289; p. 560.
Marshmallow crême. Colby Confectionery Company. No. 147,410; Aug. 16; v. 289; p. 584.
Medicinal preparation. J. Berlin. No. 145,737; Aug. 16; v. 289; p. 576.
Medicinal preparation. V. Halper. No. 146,911; Aug. 16; v. 289; p. 581.
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Medicinal preparation for use in tuberculosis, coughs, colds, &c. A. Schutt. No. 146,399; Aug. 16; v. 289; p. 578.
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Paint enamels. Patek Brothers. No. 144,741; Aug. 16; v. 289; p. 574.
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Paint, Ready-mixed. Industrial Paint Company. No. 146,259; Aug. 16; v. 289; p. 577.
Paints. Frank Bownes Company. No. 142,382; Aug. 16; v. 289; p. 570.
Paints. Indiana Iddestructible Paint Co. No. 146,555; Aug. 16; v. 289; p. 579.
Paints and waterproofing-fillers. New Process Chemical Co. No. 116,788; Aug. 16; v. 289; p. 559.
Paints, stains, varnishes, &c. California Paint Company. Nos. 146,110–11; Aug. 16; v. 289; p. 577.
Paints, varnishes, and paint enamels. Sailors and Lamb Company. No. 143,716; Aug. 16; v. 289; p. 572.
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Paper, Waxed. Waxed Paper Company. No. 146,475; Aug. 16; v. 289; p. 579.
Pattern-marking machines. J. A. Rosenfeld. No. 148,457; Aug. 16; v. 289; p. 587.
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Peanut-brittle. J. R. Council. No. 146,520; Aug. 16; v. 289; p. 579.
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Phonographs. B. E. Linquist. No. 123,650; Aug. 16; v. 289; p. 560.
Pipe thread and gasket compound. Kimball Company. No. 144,025; Aug. 16; v. 289; p. 573.
Polish, Automobile-. Navajo Laboratories. No. 146,459; Aug. 16; v. 289; p. 579.
Polishing-buffs. H. Paulson. No. 140,408; Aug. 16; v. 289; p. 568.
Polish, Nail-. J. Brueck. No. 144,846; Aug. 16; v. 289; p. 574.
Potatoes, (bagged in their natural state.) Monmouth County Farmers Exchange. No. 147,301; Aug. 16; v. 289; p. 583.
Powder, Face-. R. T. French Company. No. 146,962; Aug. 16; v. 289; p. 581.
Powder, Insect-. Regal Manufacturing Co. No. 146,846; Aug. 16; v. 289; p. 581.
Powder, Toilet. Eli Lilly & Company. No. 120,311; Aug. 16; v. 289; p. 560.
Preparation for treatment of the scalp. Orium Company. No. 146,730; Aug. 16; v. 289; p. 580.
Preparation used as a polish for painted, varnished, waxed, and oil surfaces, &c. Ultra Refined Crude Products Company. No. 135,675; Aug. 16; v. 289; p. 565.
Razors. Wester Bros. No. 149,049; Aug. 16; v. 289; p. 589.
Relish condiment, or sauce, Preparation of mustard. J. & J. Colman. Nos. 146,411–12; Aug. 16; v. 289; p. 578.
Rope made of aluminium. Aluminium-Walzwerke A.-G. No. 138,801; Aug. 16; v. 289; p. 566.
Rubber tires. Coast Tire and Rubber Company. No. 147,801; Aug. 16; v. 289; p. 586.

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Rust-preventing and polishing preparation. F. T. Adams. No. 125,272; Aug. 16; v. 289; p. 560.
Salve for eczema, &c. R. Theiner. No. 144,437; Aug. 16; v. 289; p. 573.
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Sheetings. Bencoe Exporting and Importing Co. No. 134,299; Aug. 16; v. 289; p. 564.
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Spark-plugs. Lightning Spark Plug Company. No. 149,195; Aug. 16; v. 289; p. 589.
Sprayers, Dust-. California Sprayer Company. No. 147,598; Aug. 16; v. 289; p. 585.
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Steel factory equipment. Fairbanks Co. No. 142,138; Aug. 16; v. 289; p. 570.
Stone-cutting machines. Pollard Machinery Company. No. 147,260; Aug. 16; v. 289; p. 583.
Syrup, catarrh solution, cough-syrup, &c., Alterative. C. W. Burgoon. No. 142,773; Aug. 16; v. 289; p. 570.
Table-cloths, serviettes, cushion-covers, &c. Morton Sundour Fabrics Ld. No. 147,204; Aug. 16; v. 289; p. 583.
Talking-boards. M. Jacobson. No. 131,428; Aug. 16; v. 289; p. 562.
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Tobacco and cigarettes, smoking and chewing. Liggett & Myers Tobacco Company. No. 138,772; Aug. 16; v. 289; p. 566.
Tobacco and cigarettes, smoking and chewing. Liggett & Myers Tobacco Company. No. 139,358; Aug. 16; v. 289; p. 567.
Tobacco products. S. A. Reynolds. No. 138,922; Aug. 16; v. 289; p. 566.
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Tomatoes, Fresh. F. Biggio & Sons. No. 147,404; Aug. 16; v. 289; p. 584.
Tool and machine handles and ferrules. G. B. Doane. No. 147,865; Aug. 16; v. 289; p. 586.
Tools for cutting the covers of sheet-metal cans and boxes. Openright Specialty Company. No. 149,145; Aug. 16; v. 289; p. 589.
Toys. National Toy and Tinsel Mfg. Co. No. 127,484; Aug. 16; v. 289; p. 561.
Turpentine substitute. Texas Company. No. 145,241; Aug. 16; v. 289; p. 575.
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Vegetable fiber. California Fibre Company. No. 147,153; Aug. 16; v. 289; p. 582.
Vehicles, Self-propelled. Locomobile Company of America. No. 116,784; Aug. 16; v. 289; p. 559.
Vitreous or porcelain enamel to be baked on metal ware. Chicago Vitreous Enamel Product Company. No. 147,089; Aug. 16; v. 289; p. 582.
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CLASSIFICATION OF PATENTS

ISSUED AUGUST 16, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

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68: 1,387,824
99: 1,387,537
113: 1,388,143
116: 1,388,075
167: 1,387,871
202: 1,388,095
337: 1,387,950
343. 5: 1,388,027
345: 1,387,807
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367: 1,387,856
128— 16: 1,387,687
105: 1,387,774
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129— 35: 1,387,859
1,388,140
131— 58: 1,387,545
132— 70: 1,387,694
134— 39: 1,387,448
135— 20: 1,387,740
137— 68: 1,387,760
139: 1,388,150
158: 1,387,915
160: 1,387,614
11: 1,388,107
138— 10: 1,387,674
16: 1,387,831
1,387,841
139— 21: 1,387,913
85: 1,387,943
143— 33: 1,387,969
135: 1,387,605
144— 2: 1,387,851
280: 1,387,641
295: 1,388,089
304: 1,387,996
309: 1,387,873
145— 10: 1,387,969
29: 1,387,920
70: 1,387,921
146— 3: 1,388,071
14: 1,387,562
148— 8: 1,387,645
152— 11. 5: 1,387,991
13: 1,387,797
26: 1,388,000
28: 1,387,777
30: 1,388,061
153— 16: 1,387,603
40: 1,387,683
54: 1,387,934
155— 7: 1,387,911
93: 1,387,541
140: 1,388,146
162: 1,387,499
168: 1,387,454
184: 1,387,639
156— 14: 1,387,947
24: 1,387,752
1,387,610
39: 1,387,452
157— 6: 1,387,526
158— 27. 4: 1,387,591
28: 1,387,799
53: 1,387,506
1,387,583
71: 1,387,459
91: 1,387,800
99: 1,387,450
1,387,527
118: 1,387,565
164— 19: 1,387,695
25: 1,387,828
167— 10: 1,387,569
170— 44: 1,387,692
163: 1,388,038
172— 36: 1,387,470
179: 1,387,466
1,387,503
1,387,595
1,387,990
237: 1,387,469
172— 274: 1,387,496
1,387,458
288: 1,387,498
173— 262: 1,387,548
358: 1,387,907
361: 1,387,814
174— 89: 1,387,607
175— 183: 1,387,552
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318: 1,387,471
177— 351: 1,387,514
178— 115: 1,387,885
179— 10: 1,387,668
35: 1,387,669
90: 1,387,945
180— 1: 1,387,626
7: 1,388,053
14: 1,387,820
16: 1,388,148
17: 1,387,891
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43: 1,388,004
48: 1,387,967
53: 1,387,708
64: 1,388,104
77: 1,388,009
183— 3: 1,387,748
62: 1,387,731
184— 11: 1,387,587
13: 1,387,654
45: 1,387,843
48: 1,387,737
69: 1,387,906
185— 37: 1,387,490
1,387,589
40: 1,387,704
188— 41: 1,388,047
199: 1,388,020
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231: 1,387,768
232: 1,387,981
189— 36: 1,387,542
76: 1,388,091
91: 1,388,031
190— 43: 1,387,597
191— 20: 1,388,088
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59. 1: 1,387,897
192— 29: 1,387,972
40: 1,387,902
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193— 14: 1,387,680
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194— 102: 1,387,681
195— 16: 1,387,870
196— 3: 1,387,677
25: 1,387,876
26: 1,387,835
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197— 72: 1,387,543
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58: 1,388,007
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138: 1,387,980
169: 1,387,686
1,387,787
201— 36: 1,387,620
203— 5: 1,387,475
1,387,476
1,387,840
204— 19: 1,388,086
28: 1,387,705
29: 1,388,112

204— 53: 1,387,928
206— 46: 1,387,549
52: 1,388,093
59: 1,388,092
63. 2: 1,387,839
208— 17: 1,388,102
32: 1,387,771
42: 1,387,535
210— 161: 1,387,789
211— 14: 1,387,745
16: 1,388,154
24: 1,387,765
25: 1,387,486
27: 1,387,662
28: 1,388,094
34: 1,387,572
213— 59: 1,387,684
1,387,885
65: 1,387,703
214— 130: 1,387,931
217— 36: 1,387,554
58: 1,387,965
60: 1,387,833
61: 1,388,147
95: 1,388,012
126: 1,388,055
219— 15: 1,387,487
19: 1,387,670
24: 1,387,785
35: 1,388,111
37: 1,387,521
38: 1,387,522
39: 1,387,819

219— 44: 1,388,116
57: 1,387,509
69: 1,387,492
220— 3: 1,387,451
35: 1,387,794
43: 1,387,520
94: 1,387,953
97: 1,387,655
221— 44: 1,387,612
79: 1,387,473
96: 1,387,995
106: 1,387,701
108: 1,387,908
223— 42: 1,387,658
53: 1,387,970
224— 5: 1,388,073
29: 1,387,525
1,387,772
1,388,041
226— 2: 1,388,055
29: 1,387,749
111: 1,387,507
229— 34: 1,388,006
71: 1,387,717
1,387,784
230— 24: 1,387,679
32: 1,387,515
33: 1,388,037
232— 41: 1,388,090
233— 7: 1,387,661
234— 12. 5: 1,387,642
235— 60: 1,387,711

235— 61: 1,387,551
1,387,762
73: 1,387,608
236— 14: 1,388,030
20: 1,387,853
31: 1,387,977
238— 17: 1,387,872
30: 1,387,547
70: 1,387,462
137: 1,388,134
1,388,135
260: 1,387,504
295: 1,387,689
379: 1,387,732
240— 7: 1,387,523
61: 1,387,478
62: 1,387,579
1,388,106
115: 1,387,474
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244— 1: 1,387,513
20: 1,387,501
21: 1,387,455
25: 1,387,899
246— 190: 1,388,141
209: 1,387,671
272: 1,388,101
487: 1,388,067
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248— 36: 1,387,489
64: 1,388,132
250— 2: 1,387,850
8: 1,387,996

250— 27: 1,387,984
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33: 1,387,736
251— 6: 1,387,971
91: 1,387,714
144: 1,388,137
163: 1,387,715
253— 32: 1,388,018
199: 1,387,660
254— 7: 1,387,544
22: 1,387,653
26: 1,387,582
30: 1,387,944
43: 1,387,688
45: 1,387,992
86: 1,387,563
1,387,581
1,387,905
120: 1,388,103
255— 61: 1,387,733
71: 1,387,447
75: 1,388,105
257— 130: 1,387,755
132: 1,387,584
258— 22: 1,387,518
259— 75: 1,388,097
108: 1,387,832
122: 1,387,709
140: 1,388,042
144: 1,388,144
261— 41: 1,387,484
262— 9: 1,387,896
263— 20: 1,387,528

263— 27: 1,387,817
265— 54: 1,387,998
267— 36: 1,387,536
1,387,615
41: 1,387,812
54: 1,387,539
64: 1,387,706
271— 38: 1,387,494
89: 1,387,602
274— 1: 1,387,730
13: 1,387,702
23: 1,387,575
277— 33: 1,387,446
280— 27: 1,387,546
29: 1,388,028
52: 1,387,570
87: 1,387,556
87. 5: 1,387,675
95: 1,387,727
283— 1: 1,387,837
1,387,838
11: 1,388,049
36: 1,388,048
285— 46: 1,387,901
58: 1,387,508
286— 37: 1,387,690
287— 65: 1,388,051
100: 1,387,989
288— 1: 1,387,648
290— 30: 1,387,741
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38: 1,387,848
291— 24: 1,387,815

292— 36: 1,387,573
72: 1,387,904
76: 1,387,719
143: 1,387,903
162: 1,388,017
169: 1,387,888
173: 1,387,914
228: 1,387,960
239: 1,387,564
334: 1,387,643
293— 55: 1,387,456
1,387,527
1,387,767
1,387,874
294— 106: 1,387,917
296— 32: 1,388,008
44: 1,387,773
103: 1,387,634
297— 14: 1,387,618
299— 9: 1,387,718
83: 1,388,136
120: 1,387,877
301— 9: 1,388,022
51: 1,388,066
59: 1,388,021
63: 1,387,632
1,387,793
1,387,982
65: 1,387,529
85: 1,387,508
111: 1,387,918
302— 59: 1,388,129

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 23D DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abraham, Edwin D., Chicago, Ill. Bedpan. No. 1,388,155; Aug. 23; v. 289; p. 615.

Acker, Harold I., assignor to Foamite Firefoam Company, New York, N. Y. Duplex hydrant. No. 1,388,785; Aug. 23; v. 289; p. 740.

Adams, Reginald G., Kalgoorlie, Western Australia, Australia. Pliers. No. 1,388,398; Aug. 23; v. 289; p. 665.

Adell, James C., Cleveland, Ohio. Automatic flushing mechanism. No. 1,388,499; Aug. 23; v. 289; p. 685.

Ahlstedt Ljungstroms Angturbin. (See Ljungstrom, [illegible]berg, and Eriksson, assignors.)

Alexander, Nunnally H., and W. A. Baldwin, Dawson, Ga. Fly-trap. No. 1,388,786; Aug. 23; v. 289; p. 740.

Allen, Chauncy W., Sacramento, Calif. Fishing-fly and making the same. No. 1,388,156; Aug. 23; v. 289; p. 615.

Allen, Dennis J., Binghamton, N. Y. Railway signal device. No. 1,388,787; Aug. 23; v. 289; p. 740.

Altwein, Oscar R., Asheville, N. C. Comb. No. 1,388,788; Aug. 23; v. 289; p. 740.

Ambler, George A. (See Gilman, James E., assignor.)

American Balsa Company. (See Broady, Harry W., assignor.)

American Button & Fastener Co. (See Latham, Albert, assignor.)

American Car and Foundry Company. (See Voss, William, assignor.)

American Chain Company. (See Hoover, Thomas A., assignor.)

American Dressler Tunnel Kilns, Inc. (See Meehan, Paul A., assignor.)

American Electrical Heater Company. (See Kuhn, F., and Hand, assignors.)

American Metal Molding Company. (See Johnston, Gustave V., assignor.)

American Radiator Company. (See Stoll, Frank A., assignor.)

American Safety Device Co. (See Johnston, Frank B., assignor.)

American Sterilizer Company. (See Mueller, Paul M., assignor.)

American Writing Paper Company. (See Harrigan, Herman R., assignor.)

American Zinc Lead & Smelting Company. (See Pederson, John E., assignor.)

Anderson, Leo M., New York, N. Y. Gazing-bowl. No. 1,388,789; Aug. 23; v. 289; p. 740.

Andres, Albert, Cannstatt, assignor to Firm of Fortuna-Werke, Spezial-Maschinen-Fabrik, G. m. b. H., Cannstatt-Stuttgart, Germany. Cutting device. No. 1,388,500; Aug. 23; v. 289; p. 685.

Angus, Donald J. (See Esterline, J. W., and Angus.)

Aforga y Larralde, Francisco, Matanzas, Cuba. Plow. No. 1,388,233; Aug. 23; v. 289; p. 630.

Arbetter Felling Machine Company. (See Hayes, Thomas J., assignor.)

Arent, Arthur, Des Moines, Iowa. Protective treatment of materials. No. 1,388,824; Aug. 23; v. 289; p. 747.

Arent, Arthur, Des Moines, Iowa. Protectively treating materials. No. 1,388,825; Aug. 23; v. 289; p. 747.

Arent, Arthur, Des Moines, Iowa. Treatment of materials to reduce their inflammability. No. 1,388,826; Aug. 23; v. 289; p. 747.

Arent, Arthur, Des Moines, Iowa. Protective material. No. 1,388,827; Aug. 23; v. 289; p. 747.

Arent, Arthur, Des Moines, Iowa. Protectively treating materials. No. 1,388,828; Aug. 23; v. 289; p. 748.

Arent, Arthur, Des Moines, Iowa. Protective treatment of materials. No. 1,388,829; Aug. 23; v. 289; p. 748.

Armstrong, Edwin H. (See Pupin, M. I., and Armstrong.)

Armstrong, Percy A. E., Loudonville, N. Y., assignor to Ludlow Steel Company. Vanadium-containing impact-tools for hot work. No. 1,388,157; Aug. 23; v. 289; p. 615.

Armstrong, Sir W. G., Whitworth & Company. (See Le Mesurier, Louis J., assignor.)

Armstrong, Sir W. G., Whitworth and Company. (See Lee, H. W., and Swindale, assignors.)

Arnold, Harold D. (See Colpitts, E. H., and Arnold.)

Aurand, Evelyn P., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Binder for burning compositions. No. 1,388,501; Aug. 23; v. 289; p. 685.

Aurand, Evelyn P., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Torch fuse-lighter. No. 1,388,502; Aug. 23; v. 289; p. 685.

Austin, Frederick C. (See French, James C., assignor.)

Austin, Frederick C. (See Stahl, Charles E, assignor.)

Austin, John, Geneva, Ohio. Pipe. No. 1,388,158; Aug. 23; v. 289; p. 615.

Austin, John S., administrator. (See Austin, Willis E.)

Austin, Willis E., deceased, Minneapolis, Minn.; J. S. Austin, administrator. Pneumatic action for pipe-organs. No. 1,388,318; Aug. 23; v. 289; p. 648.

Automatic Appliance Company. (See Mapel, Lewis A., assignor.)

Atlas Powder Company. (See Aurand, Evelyn P., assignor.

Ayer, Edward M., U. S. Army, assignor to N. D. Baker, Secretary of War, trustee. Canister. No. 1,388,503; Aug. 23; v. 289; p. 685.

Ayres, Elwood B., assignor to The Philadelphia Textile Machinery Company, Philadelphia, Pa. Drier. No. 1,388,790; Aug. 23; v. 289; p. 741.

Babcock-Davis Corporation. (See Davis, William A, assignor.)

Backus, Peter J., Delphos, Ohio. Landing-station for aircraft. No. 1,388,319; Aug. 23; v. 289; p. 649.

Bacsanyi, Geza, Detroit, Mich., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,388,320; Aug. 23; v. 289; p. 649.

Bailhache, Nicholas, Berkeley, Calif. Mop-wringer. No. 1,388,688; Aug. 23; v. 289; p. 720.

Baker, Arthur R., assignor, by mesne assignments, to C. G. McCutchen, Indianapolis, Ind. Igniter trip mechanism. No. 1,388,689; Aug. 23; v. 289; p. 720.

Baker, Malcolm H., deceased, Braintree, Mass.; M. H. Baker, administrator, assignor, by mesne assignments, to Tremont Products Company. Time-retarded lamp-extinguishing device. No. 1,388,504; Aug. 23; v. 289; p. 685.

Baker, Marie H., administratrix. (See Baker, Malcolm H.)

Baker, Newton D., Secretary of War, trustee. (See Ayer, Edward M., assignor.)

Baker, Robert D., Detroit, Mich. Paving apparatus. No. 1,388,690; Aug. 23; v. 289; p. 721.

Baldwin, James L., Chicago, Ill. Cash-carrier. No. 1,388,791; Aug. 23; v. 289; p. 741.

Baldwin, Walter A. (See Albrecht, N. H., and Baldwin.)

Bamforth, Thomas H., North Vancouver, assignor of one-half to R. M. Rawlings, Vancouver, British Columbia, Canada. No. 1,388,505; Aug. 23; v. 289; p. 685.

Barling, Walter H., London, England. Rib for airplane-wings and the like. No. 1,388,543; Aug. 23; v. 289; p. 692.

Bartholomew, William, and G. Simon, assignors to Troy Laundry Machinery Co., Ltd., Chicago, Ill. Self-aligning shaft-bearing. No. 1,388,321; Aug. 23; v. 289; p. 649.

Baseman, Ernest. (See Robinson, C. W., and Baseman.)

Batemon, Thomas A., Los Angeles, Calif. Valveless rotary pump. No. 1,388,234; Aug. 23; v. 289; p. 630.

Beissel, Frederick. (See Root, Walter F., assignor.)

Belcher, Warren J., assignor to The Whitney Manufacturing Company, Hartford, Conn. Drive-chain. No. 1,388,506; Aug. 23; v. 289; p. 686.

Bell, John H., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Synchronizing system. No. 1,388,507; Aug. 23; v. 289; p. 686.

Belt, John A., Washington, D. C. Moistening device. No. 1,388,399; Aug. 23; v. 289; p. 665.

Benedict, Edward L., Pittsburgh, assignor of one-half to H. E. Marks, Glen Osborne, Pa. Concrete-roadway-reinforcing fabric. No. 1,388,544; Aug. 23; v. 289; p. 693.

Berdon, Albert E., assignor to Remy Electric Company, Anderson, Ind. Ignition-controller. No. 1,388,628; Aug. 23; v. 289; p. 709.

Bergen, George B., Chicago, Ill. Permutation locking-ring. No. 1,388,691; Aug. 23; v. 289; p. 721.

Bergen, Joseph C., Davenport, Iowa. Automatic door-operating means. No. 1,388,400; Aug. 23; v. 289; p. 665.

Bernay, Henri, assignor, by mesne assignments, to F. W. Thurston, San Francisco, Calif. Drill. No. 1,388,792; Aug. 23; v. 289; p. 741.

Berndt, Arthur W. (See Owers, E., Pearson, and Berndt.)

Bird & Son. (See Wyman, George R., assignor.)

Birdsall, Wilfred T., Montclair, N. J., assignor, by mesne assignments, to Westinghouse Lamp Company. Vacuum-type converter. No. 1,388,793; Aug. 23; v. 289; p. 741.

Bissell, Torrance E., Elora, Ontario, Canada. Disk harrow. No. 1,388,159; Aug. 23; v. 289; p. 615.

Bissell, Torrance E., Elora, Ontario, Canada. Horisontal adjustable draft connection for disk harrows. No. 1,388,160; Aug. 23; v. 289; p. 615.

Black, Walter A., Perry, Iowa. Tire-core. No. 1,388,447; Aug. 23; v. 289; p. 675.

Blaesser, Anthony J., assignor to Joslyn Mfg. & Supply Co., Chicago, Ill. Manufacturing guy-clamps. No. 1,388,692; Aug. 23; v. 289; p. 721.

Blaine, Joseph R., Oak Park, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Reloading feeder. No. 1,388,161; Aug. 23; v. 289; p. 616.

Blair, Albert, *et al.* (See Ehrlich, Leo, assignor.)

Blake, Charles C., Brookline, Mass. Mechanism for handling articles. No. 1,388,235; Aug. 23; v. 289; p. 631.

Blake, Loring L., assignor to Blake Pencil Co., Chicago, Ill. Lead-feeding pencil. No. 1,388,693; Aug. 23; v. 289; p. 721.

Blake Pencil Co. (See Blake, Loring L., assignor.)

Blaw-Knox Company. (See Brynoldt, Christian, assignor.)

Blaw Knox Company. (See Goodman, Arlie H., assignor.)

Blevins, Walker S. (See Rasnick, J. S., and Blevins.)

Bloss, Richard E., and W. Schwemlein, assignors to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Fitting for diagonal braces. No. 1,388,162; Aug. 23; v. 289; p. 616.

Blumenberg, Henry, Jr., Oro Grande, Calif. Electric production of ammonia. No. 1,388,448; Aug. 23; v. 289; p. 675.

Bogstrand, Ole K., Brooklyn, N. Y. Power plant. No. 1,388,694; Aug. 23; v. 289; p. 721.

Bohan, William J., St. Paul, Minn. Self-intrenching subsurface land-torpedoe. No. 1,388,545; Aug. 23; v. 289; p. 693.

Bolig, Thomas F., Bellevue, Ohio. Line-buckle. No. 1,388,401; Aug. 23; v. 289; p. 665.

Boll, William J., Platteville, Wis. Lawn-mower attachment. No. 1,388,794; Aug. 23; v. 289; p. 741.

Bolstad, Martin J., Salt Lake City, Utah. Necktie-retainer. No. 1,388,163; Aug. 23; v. 289; p. 616.

Böminghaus, Franz, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft. Essen-on-the-Ruhr, Germany. Vehicle-spring. No. 1,388,695; Aug. 23; v. 289; p. 695.

Boyd, William J. (See Powers, E. V., and Boyd.)

Brabant, John W., La Crosse, Wis. Discharge-chute. No. 1,388,696; Aug. 23; v. 289; p. 722.

Branco, Michael, Norristown, Pa. Wheel-lock. No. 1,388,322; Aug. 23; v. 289; p. 649.

Brasseur, Ernest J., assignor to A. B. Dick Company, Chicago, Ill. Starting and speed-controlling device. No. 1,388,449; July 23; v. 289; p. 675.

Brecht, Carl F., Indianapolis, Ind. Retaining means for frames. No. 1,388,697; Aug. 23; v. 289; p. 722.

Bressler, Robert E., Hammond, assignor to O. F. Jordan Company, East Chicago, Ind. Railway motor-car. No. 1,388,236; Aug. 23; v. 289; p. 631.

Brett, Thomas A., Pittsburg, Calif. Direction-indicator for motor-vehicles. No. 1,388,795; Aug. 23; v. 289; p. 742.

Bridgwater, Herbert E., Syracuse, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,388,164; Aug. 23; v. 289; p. 616.

Brilhart, Samuel B., New York, N. Y. Railway-truck. No. 1,388,508; Aug. 23; v. 289; p. 685.

Broady, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Crane or davit. No. 1,388,831; Aug. 23; v. 289; p. 748.

Broady, Harry W., Bayside, N. Y., assignor to American Balsa Company, Inc. Davit and crane. No. 1,388,830; Aug. 23; v. 289; p. 748.

Broberg, Isidor. (See Ljungstrom, F. Broberg, and Eriksson.)

Bronle, William, Brooklyn, assignor to National Carbon Company, Inc., New York, N. Y. Flashlight. No. 1,388,165; Aug. 23; v. 289; p. 617.

Bronson, George C., and M. C. St. Clair, Newcastle, Ind. Railway-crossing signal. No. 1,388,166; Aug. 23; v. 289; p. 617.

Brown, Harley T., Hubbardston, Mich. Snow-remover. No. 1,388,509; Aug. 23; v. 289; p. 686.

Brown, Stanley E., Middlebury, Vt. Manure-Remover. No. 1,388,796; Aug. 23; v. 289; p. 742.

Bruce, William J., and F. M. Worthington, Sterling, Ill. Hat-case. No. 1,388,323; Aug. 23; v. 289; p. 649.

Brueck, Joseph, New York, N. Y. Nail-polish. No. 1,388,546; Aug. 23; v. 289; p. 693.

Bryce, James W., Binghamton, assignor to The International Time Recording Company of New York. Synchronizing-clock system. No. 1,388,167; Aug. 23; v. 289; p. 617.

Brynoldt, Christian, Pittsburgh, Pa., assignor to Blaw-Knox Company. Method of and apparatus for widening tunnels. No. 1,388,698; Aug. 23; v. 289; p. 722.

Buffalo-Springfield Roller Company, The. (See Jones, Henry D., assignor.)

Bullard, Earl J., Madison, Wis. Compression-seal for pistons. No. 1,388,168; Aug. 23; v. 289; p. 617.

Burke, Peter W. (See Greene, T. J., and Burke.)

Burns, Joseph E., Syracuse, N. Y. Cutting-tool. No. 1,388,547; Aug. 23; v. 289; p. 693.

Bush, John L., Little River, Kans. Window-fastener. No. 1,388,237; Aug. 23; v. 289; p. 631.

Bushnell Manufacturing Company, The. (See Zent, Abram L., assignor.)

Buttress, George, Los Angeles, Calif. Expanding pulley. No. 1,388,797; Aug. 23; v. 289; p. 742.

Byers, Joseph J., Brookline, assignor to Products Syndicate, Inc., Boston, Mass. Treating materials with cellulose derivatives. No. 1,388,169; Aug. 23; v. 289; p. 617.

Calvete, Isidoro, London, England. Apparatus for singeing the hair. No. 1,388,402; Aug. 23; v. 289; p. 666.

Cameron, William J., Chicago, Ill. Retractor. No. 1,388,170; Aug. 23; v. 289; p. 617.

Campagnie D'Applications Mecaniques. (See Rouanet, Louis, assignor.)

Campbell, Leon J., Buchanan, Mich. Variable-speed-transmission mechanism. No. 1,388,548; Aug. 23; v. 289; p. 693.

Carey-McFall Co. (See McFall, William H., assignor.)

Carr, William C., Buffalo, N. Y. Change-speed mechanism. No. 1,388,324; Aug. 23; v. 289; p. 650.

Carson, Robert N., San Francisco, Calif. Glove construction. No. 1,388,549; Aug. 23; v. 289; p. 693.

Carter, James S., Roby, Tex. Double tongue. No. 1,388,798; Aug. 23; v. 289; p. 742.

Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Street and sewer cleaning apparatus. No. 1,388,510; Aug. 23; v. 289; p. 686.

Cartwright, Ernest O., assignor to C. F. Gardner, Springfield, Ohio. Portable pumping apparatus. No. 1,388,511; Aug. 23; v. 289; p. 687.

Case, J. I., Threshing Machine Company. (See Davies, David P., assignor.)

Case Making Machine Company, The. (See Crosble, Robert G., assignor.)

Casella, Secondo L., assignor to National Carbon Company, Inc., New York, N. Y. Machine for polishing battery-cells. No. 1,388,403; Aug. 23; v. 289; p. 666.

Casner, Thaddeus S., Plainfield, N. J. Secondary electric clock. No. 1,388,512; Aug. 23; v. 289; p. 687.

Celluloid Company, The. (See Lindsay, William G., assignor.)

Chadwick, Lee S., East Cleveland, and M. Resek, Cleveland Heights, assignor to The Cleveland Metal Products Company, Cleveland, Ohio. Treatment of iron or steel for the prevention of oxidation or rusting. No. 1,388,325; Aug. 23; v. 289; p. 650.

Chaikin, Morris J., Detroit, Mich. Tire-pump. No. 1,388,326; Aug. 23; v. 289; p. 650.

Chandler, Asa C., Houston, Tex. Treating wood. No. 1,388,513; Aug. 23; v. 289; p. 687.

Chapel, Charles C. (See Rogers, E. W., and Chapel.)

Chappelle, Charles C., New York, N. Y. Gas-heater. No. 1,388,238; Aug. 23; v. 289; p. 631.

Chemical Fuel Company of America. (See Stevens, Elbridge W., assignor.)

Chicago Pneumatic Tool Company. (See Noakes, Robert J., assignor.)

Chiles, George J. (See Schuyler, W. H., and Chiles.)

Choinski, Walter, Milwaukee, Wis. Attachment for bowling-alley return-troughs. No. 1,388,239; Aug. 23; v. 289; p. 632.

Choinski, Walter, Milwaukee, Wis. Toy. No. 1,388,240; Aug. 23; v. 289; p. 632.

Christensen, Jens C., Penn Yan, N. Y. Implement-support. No. 1,388,799; Aug. 23; v. 289; p. 742.

Cincinnati Car Company, The. (See Elliott, Thomas, assignor.)

Cirac, Charles P., San Francisco, Calif. Reverse-stop for vehicles. No. 1,388,404; Aug. 23; v. 289; p. 666.

Clapp, Stuart H., Pittsfield, Mass. Truck for vehicles. No. 1,388,405; Aug. 23; v. 289; p. 666.

Clark, Edgar M., Alton, Ill., assignor to Standard Oil Company, Whiting, Ind. Distillation of petroleum hydrocarbons. No. 1,388,514; Aug. 23; v. 289; p. 687.

Clark, Omar E., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drill. No. 1,388,406; Aug. 23; v. 289; p. 666.

Clark, Robert F., Salt Lake City, Utah. Washing-machine. No. 1,388,800; Aug. 23; v. 289; p. 743.

Clark, William M., Chicago, Ill. Talking moving-picture apparatus. No. 1,388,515; Aug. 23; v. 289; p. 687.

Clark, William M., Chicago, Ill. Phonographic apparatus and combined phonographic and moving-picture apparatus. No. 1,388,516; Aug. 23; v. 289; p. 687.

Cleveland Metal Products Company, The. (See Chadwick, L. S., and Resek, assignors.)

Coast, John W., Jr., assignor to The Process Company, Tulsa, Okla. Cracking hydrocarbons. No. 1,388,629; Aug. 23; v. 289; p. 709.

Cobb, Ernest B., Jersey City, assignor to Standard Oil Company, Bayonne, N. J. Manufacture of viscous water-white oils and other decolorized products of petroleum. No. 1,388,517; Aug. 23; v. 289; p. 688.

Cobb, Ernest B., Jersey City, assignor to Standard Oil Company, Bayonne, N. J. Manufacture of medicinal oils and other viscous decolorized products of petroleum. No. 1,388,832; Aug. 23; v. 289; p. 748.

Cole, Albion P., Brockton, Mass. Interior decoration. No. 1,388,518; Aug. 23; v. 289; p. 688.

Cole, Eugene M., Charlotte, N. C. Twin planter. No. 1,388,171; Aug. 23; v. 289; p. 618.

Cole, Eugene M., Charlotte, N. C. Duplex planter. No. 1,388,519; Aug. 23; v. 289; p. 688.

Collett, Herbert E., Philadelphia, Pa. Vegetable-cleaner and the like. No. 1,388,630; Aug. 23; v. 289; p. 709.

Colpitts, Edwin H., East Orange, and H. D. Arnold, Maplewood, N. J., assignors, by mesne assignments, to Western Electric Company, Incorporated. Transmission of intelligence. No. 1,388,450; Aug. 23; v. 289; p. 676.

Conklin, John E., Tuscarora, N. Y. Vine-lifting attachment for harvesting-machines. No. 1,388,407; Aug. 23; v. 289; p. 666.

Consolidated Expanded Metal Company. (See Herbest, Thomas R., Jr., assignor.)

Cook, Owen C., King county, Wash. Direction-indicator for automobiles. No. 1,388,550; Aug. 23; v. 289; p. 694.

Cooley, Daniel R., Smithers, British Columbia, Canada. Window, door, or porch screen. No. 1,388,801; Aug. 23; v. 289; p. 743.

Cooper, Joseph H., Chicago, Ill. Fuel-pulverizing apparatus. No. 1,388,551; Aug. 23; v. 289; p. 694.

Cooper, Morris L., New York, N. Y. Garment-weight. No. 1,388,802; Aug. 23; v. 289; p. 743.

Coppock, Lambert, Lebanon, Oreg. Draft appliance for wagons and the like. (Reissue.) No. 15,180; Aug. 23; v. 289; p. 750.

Cornelius, Louis A., Grand Rapids, Mich. Stopper. No. 1,388,327; Aug. 23; v. 289; p. 650.

Corser, John W., Los Angeles, Calif. High-speed piston. No. 1,388,552; Aug. 23; v. 289; p. 694.

Cotton, Wiley D., Dardanelle, Ark. Means for curing sweet potatoes. No. 1,388,328; Aug. 23; v. 289; p. 650.

Craddock, Simon M., Roosevelt, Okla. Veterinary surgical appliance. No. 1,388,172; Aug. 23; v. 289; p. 618.

Craig, Walter L., Washington, D. C. Attachment for motorcycles. No. 1,388,803; Aug. 23; v. 289; p. 743.

Cranston, Albert E., Spokane, Wash. Knotter. No. 1,388,553; Aug. 23; v. 289; p. 694.

Crawford, Joseph B. (See Locker, John B., assignor.)

Creech, David E., Jackson, Mich. Piston-ring. No. 1,388,631; Aug. 23; v. 289; p. 709.

Crocker, Ralph W., Chicago, Ill. Food product and preparing same. No. 1,388,699; Aug. 23; v. 289; p. 722.

Crosble, Robert G., Hawthorn, Victoria, assignor to The Case Making Machine Company, Limited, Melbourne, Australia. Apparatus for use in making boxes, crates, and the like. No. 1,388,408; Aug. 23; v. 289; p. 667.

Cuno, Charles F., Meriden, Conn. Automatic electric switch for cable-carrying drums. No. 1,388,452; Aug. 23; v. 289; p. 676.

Cwolina, Albert, Carnegie, Pa. Railway-switch. No. 1,388,700; Aug. 23; v. 289; p. 722.

Daniels, Edmund, Lahaina, Maui, Hawaii. Discharger for sugar-centrifugals. No. 1,388,173; Aug. 23; v. 289; p. 618.

Darling, Jay, Williamsport, Ind. Wire-bending machine. No. 1,388,409; Aug. 23; v. 289; p. 667.

Davidson, Samuel C., Belfast, Ireland. Treatment of raw rubber when freshly coagulated from the latex. No. 1,388,453; Aug. 23; v. 289; p. 676.

Davies, David P., assignor to J. I. Case Threshing Machine Company, Racine, Wis. Tractor. No. 1,388,410; Aug. 23; v. 289; p. 667.

Davis, William A., Malden, assignor to Babcock-Davis Corporation, Boston, Mass. Stairway. No. 1,388,329; Aug. 23; v. 289; p. 650.

Dawley, James C. (See Ripsch, C. W., Dawley, and Derby.)

De Graff, Jan, Detroit, Mich. Furnace-cleaner. No. 1,388,560; Aug. 23; v. 289; p. 695.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Trimming mechanism for sewing-machines. No. 1,388,411; Aug. 23; v. 289; p. 667.

De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Clutch mechanism. No. 1,388,412; Aug. 23; v. 289; p. 667.

Dean, Peter P., New York, N. Y. Means for regulating the flow of fluids. No. 1,388,632; Aug. 23; v. 289; p. 709.

Decy, Richard J., Jersey City, N. J. Shipping-package. No. 1,388,804; Aug. 23; v. 289; p. 743.

Dennis, Thomas L., assignor to G. F. Parker, New York, N. Y. Curling-iron. No. 1,388,805; Aug. 23; v. 289; p. 744.

Dennis, Walter L. (See Ruebsamen, A., and Dennis.)

Denny, Henry W., Evanston, Ill. Composition of matter and making same. No. 1,388,174; Aug. 23; v. 289; p. 618.

Denver Rock Drill Manufacturing Company, The. (See Clark, Omar E., assignor.)

Denver Rock Drill Manufacturing Company, The. (See Nell, Gustave M., assignor.)

Derby, Charles D. (See Ripsch, C. W., Dawley, and Derby.)

Detroit Pressed Steel Company. (See Putnam, Alden L., assignor.)

Desmond, Joseph J., Corry, Pa. Penholder-support. No. 1,388,175; Aug. 23; v. 289; p. 618.

Diamond Match Company, The. (See Schumacher, Henry C., assignor.)

Dick, A. B., Company. (See Brasseur, Ernest J., assignor.)

Dickinson, Boyd T., Billings, Mont. Felling implement. No. 1,388,633; Aug. 23; v. 289; p. 710.

Dierking, Leslie H., Elgin, Ill. Clasp. No. 1,388,241; Aug. 23; v. 289; p. 632.

Dihlmann, Eugen G., Leipzig-Reudnitz, Germany. Multiple press for the manufacture of shoes and boots. No. 1,388,838; Aug. 23; v. 289; p. 749.

Dillon, George F., McLouth, Kans. Package-tie. No. 1,388,176; Aug. 23; v. 289; p. 619.

Doehler Die Casting Company. (See Rau, Herman, assignor.)

Dodds, Edgar H., Crouch Hill, London, England. Pneumatic action. No. 1,388,413; Aug. 23; v. 289; p. 668.

Dodds, Thomas, Thessalon, Ontario, Canada. Invalid-bed. No. 1,388,242; Aug. 23; v. 289; p. 632.

Dover, Horace W., St. James, England. Hand-wheel. No. 1,388,806; Aug. 23; v. 289; p. 744.

Dragner, Henry, and L. J. Harris, New York, N. Y. Phonograph-table. No. 1,388,243; Aug. 23; v. 289; p. 632.

Draper Corporation. (See Snow, Isaac, assignor.)

Draper Corporation. (See Stone, Melvin L., assignor.)

Dros, Cornelius P., Amsterdam, Netherlands. Trawling and like fishing apparatus. No. 1,388,414; Aug. 23; v. 289; p. 668.

Dubben, Harry F., and F. B. Easton, New York, N. Y. Muffler. No. 1,388,554; Aug. 23; v. 289; p. 694.

Duck, Louis F., De Kalb, Ill. Exploding toy bomb. No. 1,388,807; Aug. 23; v. 289; p. 744.

Duelks, Jacob E., Boston, Mass. Loom. No. 1,388,808; Aug. 23; v. 289; p. 744.

Duncan, James N., Detroit, Mich. Shipping-support for automobiles. No. 1,388,244; Aug. 23; v. 289; p. 638.

Dunlop Tire & Rubber Corporation of America. (See Hardeman, William E., assignor.)

Dunn, Emanuel W., Los Angeles, Calif. Oil-burner. No. 1,388,451; Aug. 23; v. 289; p. 676.

Eades, Herbert S., Philadelphia, Pa. Dynamo-electric machine. No. 1,388,555; Aug. 23; v. 289; p. 694.

Easton, Frank B. (See Dubben, Harry F., assignor.)

Eaton, James A., Milwaukee, Wis. Truck conveyer and unloader. No. 1,388,245; Aug. 23; v. 289; p. 633.

Edginton, Theodore, Cutler, Calif. Scraper. No. 1,388,809; Aug. 23; v. 289; p. 744.

Edison Storage Battery Company. (See Lyndon, Lamar, assignor.)

Eells, Frank B., Chicago, Ill., assignor to International Time Recording Company of New York. Three-ribbon recorder. No. 1,388,177; Aug. 23; v. 289; p. 619.

Ehrlich, Leo, assignor of one-half to A. S. Partridge and one-half to A. Blair, St. Louis, Mo. Fabric-measuring and cost-computing machine. No. 1,388,454; Aug. 23; v. 289; p. 676.

Ekstrand, Charles, deceased, Brooklyn, N. Y.; Mabel Ekstrand, executrix. Apparatus for treating oil. No. 1,388,415; Aug. 23; v. 289; p. 668.

Elliott, Dargan P., Rimini, S. C. Fence-wire clamp. No. 1,388,701; Aug. 23; v. 289; p. 723.

Elliott, Thomas, assignor to The Cincinnati Car Company, Cincinnati, Ohio. Double-ended railway-car. No. 1,388,416; Aug. 23; v. 289; p. 668.

Elliott, William H., assignor of one-fourth to W. F. Walter, Washington, D. C. Check-valve. No. 1,388,246; Aug. 23; v. 289; p. 633.

Ekstrand, Mabel, executrix. (See Ekstrand, Charles.)

Eriksson, Erik O. (See Ljungstrom, F. Broberg, and Eriksson.)

Esterline, John W., and D. J. Angus, Indianapolis, Ind., assignor to Tidewater Equipment Corporation, Portland, Me. Engine-starter. No. 1,388,178; Aug. 23; v. 289; p. 619.

Etablissements Continsouza (Societe Anonyme). (See Gaurint, Pierre S., assignor.)

Evans, Edward S., Detroit, Mich. Double-decking buck. No. 1,388,247; Aug. 23; v. 289; p. 633.

Evans, Robert L., and H. L. Roberts, Roanoke, Va. Valve. No. 1,388,179; Aug. 23; v. 289; p. 619.

Evans, Samuel C., New Castle, Pa. Furnace. No. 1,388,810; Aug. 23; v. 289; p. 744.

Everett, Edward A., New York, N. Y. Means for positioning lamps. No. 1,388,634; Aug. 23; v. 289; p. 710.

Fabriques des Montres Zenith successeur de Fabriques des Montres Zenith Georges-Favre-Tacot & Cie. (See Pellaton, Edmond, assignor.)

Former, James H., Hackney, London, England. Safety locking device for motor-vehicles. No. 1,388,417; Aug. 23; v. 289; p. 668.

Fate, Daisy L., executrix. (See Fate, John L.)

Fate, John L., deceased; D. L. Fate, executrix, assignor, by mesne assignments, to C. R. Gleason, Chicago, Ill. Sealing vacuum-jacket. No. 1,388,248; Aug. 23; v. 289; p. 634.

Fearn, Richard L., Jr., assignor to National Electrical Supply Company, Washington, D. C. Process of and apparatus for preventing offsetting, &c. No. 1,388,418; Aug. 23; v. 289; p. 669.

Federal Adding Machine Corporation. (See Spiro, Charles, assignor.)

Fitch, William H., Allentown, Pa. Continuous-heating furnace. No. 1,388,419; Aug. 23; v. 289; p. 669.

Fitz-Empire Double Pivot Last Company. (See Prindle, Edwin J., assignor.)

Flanagan, James A., Toronto, Canada. Bobbin-winder for sewing-machines. No. 1,388,180; Aug. 23; v. 289; p. 619.

Fleming, Sydney J., Vancouver, British Columbia, Canada. Cloth-line-pulling clutch. No. 1,388,455; Aug. 23; v. 289; p. 677.

Fletcher, Harold W., Houston, Tex. Roller boring-drill. No. 1,388,456; Aug. 23; v. 289; p. 677.
Flinner, John, Leavenworth, Kans. Amusement device. No. 1,388,420; Aug. 23; v. 289; p. 669.
Foamite Firefoam Company. (See Acker, Harold I., assignor.)
Fokker, Anthony H. G., Amsterdam, Netherlands. Folding or jointing aeroplane-wing for transportation or storage. No. 1,388,457; Aug. 23; v. 289; p. 677.
Ford, Eugene A., Newton, Mass., assignor to R. E. D. Engine Company, Inc., New York, N. Y. Liquid packing means for engine-pistons. No. 1,388,520; Aug. 23; v. 289; p. 688.
Forgrave, Lyman R., St. Joseph, Mo. Throat and mouth gag. No. 1,388,421; Aug. 23; v. 289; p. 669.
Forney, Clarence H., assignor to Forney Fibre Company, Jersey City, N. J. Spool-head. No. 1,388,635; Aug. 23; v. 289; p. 710.
Forney Fibre Company. (See Forney, Clarence H., assignor.)
Forsman, Stanton W., Los Angeles, Calif. Apparatus for sealing containers. No. 1,388,422; Aug. 23; v. 289; p. 669.
Fortuna-Werke, Spezial-Maschinen-Fabrik, G. m. b. H. See Andres, Albert, assignor.)
Fowler, Mack J., Roanoke, Va. Locomotive sander attachment. No. 1,388,811; Aug. 23; v. 289; p. 745.
Frautnick, Edward F., Elgin, Ill. Kitchen utensil. No. 1,388,636; Aug. 23; v. 289; p. 710.
French, James C., assignor to F. C. Austin, Chicago, Ill. Multipedal tractor. No. 1,388,637; Aug. 23; v. 289; p. 710.
Freter, Theodore H., Chicago, Ill. Washing and sterilizing apparatus. No. 1,388,249; Aug. 23; v. 289; p. 634.
Frick, Frederick, Waynesboro, Pa. Secondary electric clock. No. 1,388,458; Aug. 23; v. 289; p. 677.
Fried. Krupp Aktiengesellschaft. (See Borminghaus, Franz, assignor.)
Fuller, F. A. (See McKirahan, Samuel, assignor.)
Gallerani, Alexander, assignor to H. J. Heinz Company, Pittsburgh, Pa. Method of and apparatus for drying macaroni and the like. No. 1,388,702; Aug. 23; v. 289; p. 723.
Gamewell Fire Alarm Telegraph Company, The. (See Stanley, Vincent C., assignor.)
Gardiner, William H., Albany, N. Y., assignor, by mesne assignments, to The Peter Smith Heater Company. Car-stoves. No. 1,388,330; Aug. 23; v. 289; p. 651.
Gardner, Charles F. (See Cartwright, Ernest O., assignor.)
Garritson, Henry R., Logansport, Ind. Basket. No. 1,388,556; Aug. 23; v. 289; p. 694.
Gauriat, Pierre S., assignor to Etablissements Continsouza (Societe Anonyme), Paris, France. Shutter for cinematographic apparatus. No. 1,388,423; Aug. 23; v. 289; p. 670.
Geesman, Wilbur H., Youngstown, assignor of forty-eight one-hundredths to Arthur G. McKee & Company, Cleveland; twenty-six one-hundredths to F. E. Kling, Youngstown, and twenty-six one-hundredths to L. B. Weidlein, Cleveland, Ohio. Apparatus for washing gas. No. 1,388,812; Aug. 23; v. 289; p. 745.
Geesman, Wilbur H., Youngstown, assignor of forty-eight one-hundredths to Arthur G. McKee & Company, Cleveland; twenty-six one-hundredths to F. E. Kling, Youngstown, and twenty-six one-hundredths to L. B. Weidlein, Cleveland, Ohio. Means for washing gas. No. 1,388,813; Aug. 23; v. 289; p. 745.
General Machine & Manufacturing Company. (See Hjorth, David, assignor.)
General Motors Corporation. (See Perlman, Louis H., assignor.)
George, Edward A., Shreveport, La. Rotary bit. No. 1,388,424; Aug. 23; v. 289; p. 670.
George, Ernest A., Chelsea, England. Ball and float valve. No. 1,388,331; Aug. 23; v. 289; p. 651.
Gerhard, Karl F., Hatton, Wash. Snap-hook. No. 1,388,557; Aug. 23; v. 289; p. 695.
Gillig, Chester. (See Gillig, Leo and C.)
Gillig, Leo and C., San Francisco, Calif. Side curtain for automobiles. No. 1,388,425; Aug. 23; v. 289; p. 670.
Gilman, Charles, Plainfield, and W. C. Parmley, Montclair, N. J. Expansible-joint construction. No. 1,388,558; Aug. 23; v. 289; p. 695.
Gilman, James E., assignor of one-half to G. A. Ambler, Winchester, Mass. Refrigerating apparatus. No. 1,388,332; Aug. 23; v. 289; p. 651.
Gleason, C. Roy. (See Fate, John L., assignor.)
Globe Optical Company. (See Slade, Walter W., assignor.)
Godard, Dwight W., Aurora, Ill. March-folio holder. No. 1,388,333; Aug. 23; v. 289; p. 651.
Godfrey, John F., Elkhart, Ind. Reinforcing automobile-bodies. No. 1,388,250; Aug. 23; v. 289; p. 634.
Goodman, Arlie H., assignor to Blaw-Knox Company, Pittsburgh, Pa. Port construction for furnaces. No. 1,388,559; Aug. 23; v. 289; p. 695.
Goodyear Tire & Rubber Company, The. (See Kilborn, Karl B., assignor.)
Gorton, Lycurgus P., Indianapolis, Ind. Centrifugal lubricating-cup for loose pulleys. No. 1,388,251; Aug. 23; v. 289; p. 634.
Goss Printing Press Company. (See Walser, Joseph J., assignor.)
Gouin, Louis J., Freeport, Ill. Window-sash regulator and operator. No. 1,388,252; Aug. 23; v. 289; p. 634.
Granum, Martin. (See White, A., and Granum.)
Gray, John T., Great Falls, Mont. Receiver-hook switch. No. 1,388,703; Aug. 23; v. 289; p. 723.
Greene, Thomas J., and P. W. Burke, Bremerton, Wash. Pneumatic-hammer-oiling device. No. 1,388,459; Aug. 23; v. 289; p. 677.
Greenawalt, John E., New York, N. Y. Grate for sintering-pans. No. 1,388,334; Aug. 23; v. 289; p. 652.
Greenawalt, John E., New York, N. Y. Grate for sintering-pans. No. 1,388,335; Aug. 23; v. 289; p. 652.
Greive, Edmund J., Los Angeles, Calif. Surface-decorating. No. 1,388,426; Aug. 23; v. 289; p. 670.
Griffin, John T., Baltimore, Md. Flow-regulating device for gas-burners. No. 1,388,704; Aug. 23; v. 289; p. 723.
Griffith, Charles A. (See Sanford, H. W., Griffith, and Jones.)
Grote, Robert E., St. Louis, Mo. Display-card. No. 1,388,561; Aug. 23; v. 289; p. 695.
Guelbaum, David, Syracuse, N. Y. Closed high-temperature gas-burner. No. 1,388,460; Aug. 23; v. 289; p. 677.
Guérin, Joseph A. (See Thomas, L. V., and Guérin.)
Guimonneau, Louis H., Le Rainey, France. Building-wall. No. 1,388,181; Aug. 23; v. 289; p. 620.
Guiterman Bros. (See Hanson, Harry C., assignor.)
Gumprecht, William L., Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y. Typewriting-machine. No. 1,388,253; Aug. 23; v. 289; p. 635.
H & H Machine Company. (See Marien, Charles A., assignor.)
Hagerty, David F., Sioux City, Iowa. Piano-mover. No. 1,388,562; Aug. 23; v. 289; p. 696.
Hall, Samuel N., assignor to M. E. Layne, Los Angeles, Calif. Pump mechanism. No. 1,388,427; Aug. 23; v. 289; p. 670.
Halt, Charles H., New Haven, assignor to Non-Explosive Appliance Company, Fort Wayne, Ind. Butter-making machine. No. 1,388,639; Aug. 23; v. 289; p. 711.
Hamann, William H. C., Jr., Snyder, Nebr. Wheel-guard for wheeled disk harrows. No. 1,388,814; Aug. 23; v. 289; p. 745.
Hammerstrom, Henry H. (See Stewart, R. E., and Hammerstrom.)
Hammond, John H., Jr., Gloucester, Mass. Apparatus for controlling torpedo-firing. No. 1,388,640; Aug. 23; v. 289; p. 711.
Hand, Jay A. (See Kuhn, F., and Hand.)
Hansen, Hans L. C., Chicago, Ill. Pump-piston. No. 1,388,254; Aug. 23; v. 289; p. 635.
Hanson, Bengt M. W., Hartford, Conn. Grinding-machine. No. 1,388,182; Aug. 23; v. 289; p. 620.
Hanson, Earl C., Washington, D. C. Underground and submarine antenna. No. 1,388,336; Aug. 23; v. 289; p. 652.
Hanson, Harry C., assignor to Guiterman Bros., St. Paul, Minn. Sleeve-rest. No. 1,388,563; Aug. 23; v. 289; p. 696.
Hardeman, William E., Birmingham, England, assignor to Dunlop Tire & Rubber Corporation of America, Buffalo, N. Y. Tire-press. No. 1,388,265; Aug. 23; v. 289; p. 635.
Hardesty, Ben F., St. Louis, Mo. Spring-equalizer attachment for automobiles. No. 1,388,461; Aug. 23; v. 289; p. 678.
Hardinge Company. (See Hardinge, Harry W., assignor.)
Hardinge, Harry W., assignor to Hardinge Company, New York, N. Y. Grinding-mill. No. 1,388,462; Aug. 23; v. 289; p. 678.
Hardinge, Harry W., assignor to Hardinge Company, New York, N. Y. Grinding-mills and grinding medium therefor. No. 1,388,463; Aug. 23; v. 289; p. 678.
Harkrader, George H., assignor to The New System Manufacturing Company, Columbus, Ohio. Rotary baking-oven. No. 1,388,256; Aug. 23; v. 289; p. 635.
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Harris, William H., Laurium, Mich. Callpers. No. 1,388,705; Aug. 23; v. 289; p. 723.
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Hart, Frederick A., Jersey City, N. J., assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,388,257; Aug. 23; v. 289; p. 635.
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Hartzell, Forest H., Dayton, Ohio. Electroplating apparatus. No. 1,388,337; Aug. 23; v. 289; p. 652.
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Hatch, Charlie E., Denver, Colo. Piston for engines. No. 1,388,338; Aug. 23; v. 289; p. 652.
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Hayes, Thomas J., Roslindale, assignor to Arbetter Felling Machine Company, Boston, Mass. Feeding mechanism for sewing-machines. No. 1,388,183; Aug. 23; v. 289; p. 620.
Haynes, William G., assignor of one-half to F. E. Remington, Coffeyville, Kans. Expansible plug for wells. No. 1,388,564; Aug. 23; v. 289; p. 696.
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Hermans, John, Vancouver, Wash. Extension-table. No. 1,388,708; Aug. 23; v. 289; p. 724.
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Hessing, Lawrence W., Maywood, assignor of one-half to J. M. Rhodes, Chicago, Ill. Machine for making packing. No. 1,388,428; Aug. 23; v. 289; p. 671.
Heuser, Herman, Evanston, Ill. Vacuum-discharge apparatus. No. 1,388,565; Aug. 23; v. 289; p. 696.
Heyl, Frederick W., assignor to The Upjohn Company, Kalamazoo, Mich. Packaging digitalis. No. 1,388,429; Aug. 23; v. 289; p. 671.
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Hood, Willis F., Highland Park, Mich. Combination weight and spatula holder. No. 1,388,260; Aug. 23; v. 289; p. 636.
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Huff, Slaughter W., New York, N. Y. Manufacturing drawn links for electric fuses. No. 1,388,568; Aug. 23; v. 289; p. 569.
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Hull, Ray L., San Francisco, Calif. Spark-plug. No. 1,388,343; Aug. 23; v. 289; p. 653.
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Hydraulic Pressed Steel Company, The. (See Leffler, Ralph R., assignor.)
Hyle, Jacob A., Philadelphia, Pa. Railway-rail joint. No. 1,388,184; Aug. 23; v. 289; p. 620.
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International Motor Company. (See Josephs, Lyman C., Jr., assignor.)
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Isaacs, Joel L., Milwaukee, Wis. Bed-spring. No. 1,388,261; Aug. 23; v. 289; p. 636.
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Johnston, Gustave V., Chicago, Ill., assignor to American Metal Molding Company. Method and apparatus for butt-welding thin-gage tubing. No. 1,388,434; Aug. 23; v. 289; p. 672.
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Jones, Henry D., assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio. Gage-wheel for scarifying devices. No. 1,388,648; Aug. 23; v. 289; p. 713.
Jones, Henry D., assignor to The Buffalo-Springfield Roller Company, Springfield, Ohio. Support for scarifying devices. No. 1,388,649; Aug. 23; v. 289; p. 712.
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Jordan, Robert E., assignor to The Packers Machinery & Equipment Co., Chicago, Ill. Dehairing-machine. No. 1,388,572; Aug. 23; v. 289; p. 698.
Josephs, Lyman C., Jr., assignor to International Motor Company, New York, N. Y. Motor-truck excavator. No. 1,388,650; Aug. 23; v. 289; p. 713.
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Kamm, Oliver, Urbana, and E. H. Volwiler, Chicago, Ill. Anesthetic compound. No. 1,388,573; Aug. 23; v. 289; p. 698.
Kando, Kalman V., Budapest, Hungary. Crank-gear for motor-driven vehicles. No. 1,388,344; Aug. 23; v. 289; p. 653.
Karr, Francis, Holland, Mich. Bed-spring. No. 1,388,263; Aug. 23; v. 289; p. 637.
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Keavey, John C., Cleveland, Ohio. Antiskid device. No. 1,388,264; Aug. 23; v. 289; p. 637.
Keeping, Thomas J., Los Angeles, Calif. Caster. No. 1,388,721; Aug. 23; v. 289; p. 727.
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Keller, Emil, Vienna, Austria. Flexible paper tubing. No. 1,388,467; Aug. 23; v. 289; p. 679.
Keiling, Gustave C., Chicago, Ill. Peanut-blancher. No. 1,388,574; Aug. 23; v. 289; p. 698.
Kelly, John M., Manitowoc, Wis. Bag-cleaning apparatus. No. 1,388,722; Aug. 23; v. 289; p. 727.
Kemble, Thomas S., Cleveland, Ohio. Means for controlling lubrication of engines. No. 1,388,345; Aug. 23; v. 289; p. 654.
Kennedy, Robert G., deceased, Sidney, Vancouver Island, Canada; The Royal Trust Company, executor and trustee of the will. Device for controlling a supply of water for irrigation or other purposes. No. 1,388,723; Aug. 23; v. 289; p. 727.

Kenneweg, Albert H., Brooklyn, N. Y. Port-light. (Reissue.) No. 15,181; Aug. 23; v. 289; p. 750.
Kenworthy, Charles F., Waterbury, Conn. Furnace. No. 1,388,575; Aug. 23; v. 289; p. 698.
Kephart, Calvin I., Portland, Oreg. Lathe attachment for boring and grinding cylinders. No. 1,388,576; Aug. 23; v. 289; p. 698.
Kessler, John E. (See Turner, T., Kessler, and Higgins.)
Kettenton, George, Scotts Bluff, Nebr. Wheeled ditching-machine. No. 1,388,266; Aug. 23; v. 289; p. 637.
Keyser, William P., and J. A. Moore, Richland District, W. Va. Feed regulator for powdered fuel. No. 1,388,185; Aug. 23; v. 289; p. 620.
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Kilborn, Karl B., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Method of and apparatus for removing pneumatic tires from cores. No. 1,388,435; Aug. 23; v. 289; p. 672.
King, Henry M., Clayton, Okla. Saw-swage. No. 1,388,724; Aug. 23; v. 289; p. 724.
Kinney, William R., Reading, Mich. Hub for rotary colters. No. 1,388,577; Aug. 23; v. 289; p. 698.
Kins, Albert L., assignor of one-half to L. H. Housten, Farmington, Calif. Tractor. No. 1,388,578; Aug. 23; v. 289; p. 699.
Kins, Albert L., Farmington, Calif. Turning mechanism for tractors and the like. No. 1,388,579; Aug. 23; v. 289; p. 699.
Kirby, Isaac, Oklahoma, Okla. Band-cutter and feeder for threshing-machines. No. 1,388,468; Aug. 23; v. 289; p. 679.
Kirsch, Charles W., Sturgis, Mich. Shade-roller hood. No. 1,388,346; Aug. 23; v. 289; p. 654.
Klicka, Rudolf, Pittsburgh, Pa. Dentist's cabinet. No. 1,388,347; Aug. 23; v. 289; p. 654.
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Kloer, Charles H., Jersey City, N. J. Gear-release. No. 1,388,651; Aug. 23; v. 289; p. 713.
Kneip, Elizabeth C., Maspeth, N. Y. Lantern. No. 1,388,267; Aug. 23; v. 289; p. 638.
Knoop, John H. W., Upper Darby, Pa. Mold for casting pigs for linotype-machines. No. 1,388,725; Aug. 23; v. 289; p. 726.
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Knutson, Alfred W., Galesburg, Ill., assignor to Rowe Manufacturing Co. Coupling. No. 1,388,268; Aug. 23; v. 289; p. 638.
Koehler, Kurt R., Merrill, Wis. Spark-intensifier. No. 1,388,348; Aug. 23; v. 289; p. 654.
Kolbe, John L., Wauwatosa, Wis. Tag-holder. No. 1,388,726; Aug. 23; v. 289; p. 728.
Koziol, Joseph M., Pender, Nebr. Husking-hook. No. 1,388,580; Aug. 23; v. 289; p. 699.
Kramer, William J., St. Louis, Mo. Inclosed or cartridge fuse. No. 1,388,269; Aug. 23; v. 289; p. 638.
Krotz, Alvaro S., assignor to Janesville Machine Company, Janesville, Wis. Detachable plowshare. No. 1,388,652; Aug. 23; v. 289; p. 713.
Kuhn, Frank, and J. A. Hand, assignors to American Electrical Heater Company, Detroit, Mich. Electric heater. No. 1,388,270; Aug. 23; v. 289; p. 638.
Lane, John H., assignor to Peninsular Stove Company, Detroit, Mich. Combination coal and gas range. No. 1,388,653; Aug. 23; v. 289; p. 713.
Larson, Alfred, assignor of one-half to G. Ole, Scobey, Mont. Fan-blast regulator. No. 1,388,581; Aug. 23; v. 289; p. 699.
Laska, Lewis L., Cordova, Alaska. Battery-tester. No. 1,388,727; Aug. 23; v. 289; p. 728.
Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Designation-printing means. No. 1,388,271; Aug. 23; v. 289; p. 638.
Latham, Albert, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me. Button. No. 1,388,469; Aug. 23; v. 289; p. 679.
Latham, Albert, Beverly, Mass., assignor to American Button & Fastener Co., Augusta, Me. Button. No. 1,388,470; Aug. 23; v. 289; p. 679.
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Lawrence, William H., Akron, Ohio. Door-holder. No. 1,388,272; Aug. 23; v. 289; p. 639.
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Le Compte, Edward P., Park City, Utah. Means for operating the steering posts of automobiles. No. 1,388,582; Aug. 23; v. 289; p. 700.
Le Mesurier, Louis J., assignor of one-half to Sir W. G. Armstrong, Whitworth & Company, Limited, Newcastle-upon-Tyne, England. Airplane-launching apparatus. No. 1,388,361; Aug. 23; v. 289; p. 657.
Leavitt, James Q., assignor of one-half to H. L. Herrington, Ogden, Utah. Labeling-machine. No. 1,388,728; Aug. 23; v. 289; p. 728.
Lee, Albert J. F., Montreal, Canada. Immersible salvage vessel. No. 1,388,729; Aug. 23; v. 289; p. 728.
Lee, Hugh W., and J. W. Swindale, assignors to Sir. W. G. Armstrong, Whitworth and Company, Limited, Newcastle-upon-Tyne, England. Ammunition-hoist. No. 1,388,349; Aug. 23; v. 289; p. 655.
Lee, Leif, Youngstown, Ohio. Air-heating furnace. No. 1,388,583; Aug. 23; v. 289; p. 700.
Leffler, Ralph R., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Support for concrete-forms. No. 1,388,273; Aug. 23; v. 289; p. 639.
Leich Electric Company. (See Leich, Oscar M., assignor.)
Leich, Oscar M., assignor to Leich Electric Company, Genoa, Ill. Converter. No. 1,388,274; Aug. 23; v. 289; p. 639.
Lewis, Abraham. (See Zsarnay, Béla, assignor.)
Light, Claus H., Des Moines, Iowa, assignor of one-eighth to A. May and one-eighth to V. L. Stamen. Airless tire. No. 1,388,350; Aug. 23; v. 289; p. 655.
Lincoln Motor Company. (See Litle, Thomas J., Jr., assignor.)
Lindsay, William G., Newark, N. J., assignor to The Celluloid Company. Plastic compound and process. No. 1,388,472; Aug. 23; v. 289; p. 679.
Listo Pencil Company. (See Wehn, Charles E., assignor.)
Litle, Thomas J., Jr., assignor to Lincoln Motor Company, Detroit, Mich. Fuel-preheating device for internal-combustion engines. No. 1,388,473; Aug. 23; v. 289; p. 679.
Ljungstrom, Fredrik, Lidingon-Brevik, I. Broberg, Tallhyddan, Skarsatra, and E. O. Eriksson, Ormbunken, Brevik, Lidingon, assignors to Aktiebolaget Ljungstroms Angturbin, Stockholm, Sweden. Reversing device for toothed gearing. No. 1,388,351; Aug. 23; v. 289; p. 655.
Lloyd, Joseph C. W., Alperton, England. Means for controlling admission and exhaust in double-acting explosion-engines. No. 1,388,352; Aug. 23; v. 289; p. 655.
Lobb, Frank H., Millville, N. J., assignor to United Bottle Machinery Co., New York, N. Y. Mechanism for cutting off molten glass. No. 1,388,654; Aug. 23; v. 289; p. 714.
Locker, John B., St. Louis, Mo., assignor of one-half to J. B. Crawford. Submarine boat. No. 1,388,730; Aug. 23; v. 289; p. 729.
Locomotive Stoker Company, The. (See Lower, Nathan M., assignor.)
Long, William L., Coffeyville, Kans. Pipe-patch. No. 1,388,731; Aug. 23; v. 289; p. 729.
Lorscheider-Schang Co., The. (See Schang, Frederick, assignor.)
Low, Arthur B., Denver, Colo. Tire-gage. No. 1,388,275; Aug. 23; v. 289; p. 640.
Lowenstein, Fritz, Brooklyn, N. Y. Spark-gap apparatus. No. 1,388,834; Aug. 23; v. 289; p. 748.
Lower, Nathan M., Bellevue, assignor to The Locomotive Stoker Company, Pittsburgh, Pa. Locomotive draft appliance. No. 1,388,655; Aug. 23; v. 289; p. 714.
Ludlum Steel Company. (See Armstrong, Percy A. E., assignor.)
Lyndon, Lamar, assignor to Edison Storage Battery Company, West Orange, N. J. Storage battery. No. 1,388,656; Aug. 23; v. 289; p. 714.
Lyons, Charles D., Mansfield, Mass. Cuff-button. No. 1,388,522; Aug. 23; v. 289; p. 689.
Lyster, T. L. B., and K. E. Stuart, Niagara Falls, assignors to Hooker Electrochemical Company, New York, N. Y. Apparatus for electrolyzing solutions. No. 1,388,474; Aug. 23; v. 289; p. 680.
Macdonald, Albert B., and T. W. Wallace, Clare, South Australia, Australia. Fastener for mail-bags and the like. No. 1,388,735; Aug. 23; v. 289; p. 730.
Macdonald, Harry P., Montclair, N. J., and W. S. Thomson, Plantsville, Conn., assignors to The Snead & Co. Iron Works, Jersey City, N. J. Joining metal parts. No. 1,388,657; Aug. 23; v. 289; p. 714.
Madsen, Charles C., assignor to Keystone Tool and Die Works, trustee, Chicago, Ill. Safety device for punch-presses. No. 1,388,354; Aug. 23; v. 289; p. 656.
Maliziski, Stive, Jersey City, N. J. Railway-tie and fastener. No. 1,388,277; Aug. 23; v. 289; p. 640.
Mallory, Ernest E., Los Angeles, Calif. Stool. No. 1,388,736; Aug. 23; v. 289; p. 730.
Manners, Charles E., Glenville Glen, Crafers, South Australia, Australia. Attachment for ax-heads. No. 1,388,475; Aug. 23; v. 289; p. 680.
Mapel, Lewis A., assignor to Automatic Appliance Company, St. Louis, Mo. Signal mechanism. No. 1,388,278; Aug. 23; v. 289; p. 640.
Marble, Webster L., Gladstone, Mich. Creel or trout-basket. No. 1,388,187; Aug. 23; v. 289; p. 621.
Marien, Charles A., assignor to H. & H. Machine Company, St. Louis, Mo. Piston for engine-cylinders. No. 1,388,279; Aug. 23; v. 289; p. 640.
Maris, Fred D., Toppenish, Wash. Self-laying twin tractor-wheel. No. 1,388,737; Aug. 23; v. 289; p. 730.
Marks, Herbert E. (See Benedict, Edward L., assignor.)
Marsh, James B., Des Moines, Iowa. Arch-bridge construction. No. 1,388,584; Aug. 23; v. 289; p. 700.
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Marsh, John W., New York, N. Y. Swing-truck-yoke support for railway rolling-stock. No. 1,388,818; Aug. 23; v. 289; p. 746.
Marshall, Cesar, New York, N. Y. Magnetic controlling device. No. 1,388,658; Aug. 23; v. 289; p. 715.
Martin, Frank L., R. P., and L. H., Thornville, Ohio. Mail catching and delivering device. No. 1,388,738; Aug. 23; v. 289; p. 730.
Martin, Luke H. (See Martin, Frank L., R. P., and L. H.)
Martin, Richard P. (See Martin, Frank L., R. P., and L. H.)

Martino, James, White Plains, N. Y. Adjustable flush-valve-seat-cutting tool. No. 1,388,585; Aug. 23; v. 289; p. 700.
Mason, Hal M., Independence, Kans. Automobile gasolene-lock. No. 1,388,280; Aug. 23; v. 289; p. 640.
Mathy, Maurice, Flemalle-Grande, Belgium. Apparatus for heating by combustion without flame. No. 1,388,355; Aug. 23; v. 289; p. 656.
Mathy, Maurice, Liege, Belgium. Cooker. No. 1,388,356; Aug. 23; v. 289; p. 656.
Mathy, Maurice, Liege, Belgium. Surface-combustion gas-burner. No. 1,388,357; Aug. 23; v. 289; p. 650.
Maxwell, Bert E., Wichita, Kans. Skiving-machine. No. 1,388,358; Aug. 23; v. 289; p. 656.
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Masuryk, Bartlomlej, Tugaske, Saskatchewan, Canada. Harrowing-machine. No. 1,388,359; Aug. 23; v. 289; p. 657.
McCormick, Thomas, Klamath Falls, Oreg. Portable saw device. No. 1,388,186; Aug. 23; v. 289; p. 621.
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McFall, William H., assignor to Carey-McFall Co., Philadelphia, Pa. Latch-lock. No. 1,388,782; Aug. 23; v. 289; p. 729.
McGraw, Mrs. Catherine. (See Pfeil, Charles J., assignor.)
McGuckin, Henry J., New York, N. Y. Smoking-pipe. No. 1,388,733; Aug. 23; v. 289; p. 729.
McKee, Arthur G., & Company, *et al.* (See Geesman, Wilbur H., assignor.)
McKirahan, Samuel, Golden, assignor of two-thirds to F. A. Fuller, Denver, Colo. Extraction of potassium from the natural substances in which it occurs. No. 1,388,276; Aug. 23; v. 289; p. 640.
McMichael, Clarence R., and B. W. Wall, Patmos, Ark. Railway-rail brace. No. 1,388,734; Aug. 23; v. 289; p. 729.
McNab & Harlin Mfg. Co. (See Smith, James C., assignor.)
McQuitty, Robert A., London, England. Apparatus for coating the surfaces of flexible foundations. No. 1,388,353; Aug. 23; v. 289; p. 655.
Mead, James E., Palestine, W. Va. Carpenter's adjustable fillister or rabbet plane. No. 1,388,281; Aug. 23; v. 289; p. 641.
Meehan, Paul A., New Castle, Pa., assignor to American Dressler Tunnel Kiln, Inc., New York, N. Y. Annealing. No. 1,388,188; Aug. 23; v. 289; p. 621.
Meikle, George S., New York, N. Y. Thermos bottle. No. 1,388,189; Aug. 23; v. 289; p. 621.
Meredith, William, Indianapolis, Ind. Economic cooking-vessel wipe. No. 1,388,282; Aug. 23; v. 289; p. 641.
Merritt, Arthur A., Worcester, Mass., assignor to Willcox & Gibbs Sewing Machine Co., New York, N. Y. Sewing-machine presser-foot. No. 1,388,360; Aug. 23; v. 289; p. 657.
Merton, Herbert. (See Wise, Ernest A., assignor.)
Mess, George B., Charleston, W. Va. Motometer-guard. No. 1,388,190; Aug. 23; v. 289; p. 622.
Metzger, Floyd J., New York, N. Y. Manufacture of alkali metal cyanid. No. 1,388,586; Aug. 23; v. 289; p. 700.
Metzler, George H., Halifax, Nova Scotia, Canada. Train-stop. No. 1,388,283; Aug. 23; v. 289; p. 641.
Michaelson, Andrew E., Portland, Oreg. Cabinet for phonographic records. No. 1,388,284; Aug. 23; v. 289; p. 641.
Miehle Printing Press and Manufacturing Company. (See Blaine, Joseph R., assignor.)
Miller, Austin R., Cheney, Wash. Weeder. No. 1,388,362; Aug. 23; v. 289; p. 657.
Miller, Frank H., Racine, Wis. Micrometric indicator. No. 1,388,739; Aug. 23; v. 289; p. 730.
Miller, Frank H., Milwaukee, Wis. Micrometer-caliper. No. 1,388,740; Aug. 23; v. 289; p. 731.
Miller, John A., South San Francisco, Calif. Device for attaching shackles to submerged objects. No. 1,388,363; Aug. 23; v. 289; p. 657.
Miller, Mary A., Lancaster, Pa. Cake-baking pan. No. 1,388,364; Aug. 23; v. 289; p. 658.
Miller Rubber Company, The. (See Riley, Ralph E., assignor.)
Miller Rubber Company, The. (See Ofensend, Chase F., assignor.)
Milliken, Humphreys, New York, N. Y. Dust-separator. No. 1,388,741; Aug. 23; v. 289; p. 731.
Minton, Gustave M., assignor to Leo Schlesinger & Co., New York, N. Y. Holder for memoranda-strips or game-scores. No. 1,388,365; Aug. 23; v. 289; p. 658.
Mitchell, Vernon V., Whitney Point, N. Y. Skate-sharpener. No. 1,388,659; Aug. 23; v. 289; p. 715.
Mohler, Charles M., Richmond, Ind. Shock-absorber. No. 1,388,742; Aug. 23; v. 289; p. 731.
Moldenke, Richard, Watchung, N. J. Manufacture of alum cake. No. 1,388,436; Aug. 23; v. 289; p. 672.
Moore, Edward, Newark, N. J. Governing device for internal-combustion engines. No. 1,388,748; Aug. 23; v. 289; p. 731.
Moore, Granville, San Francisco, Calif. Manufacture of blanc fixe. No. 1,388,285; Aug. 23; v. 289; p. 641.
Moore, John A. (See Keyser, W. P., and Moore.)
Moriarty, Joseph R., Hudson, Mich. Adjustable partition for stock-cars. No. 1,388,819; Aug. 23; v. 289; p. 746.
Morral, Samuel E. and W. W., Morral, Ohio. Corn-husking device. No. 1,388,286; Aug. 23; v. 289; p. 642.
Morral, William W. (See Morral, Samuel E. and W. W.)
Morrissey, John T., Lincoln, Nebr. Spud-tool. No. 1,388,744; Aug. 23; v. 289; p. 744.
Morton, Rufus J., Greensboro, N. C. Advertising display-stand. No. 1,388,745; Aug. 23; v. 289; p. 732.
Moses, Richard W., Coraopolis, assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Roll-adjusting mechanism. No. 1,388,587; Aug. 23; v. 289; p. 701.
Moystad, Johan K., Christiania, Norway. Fuel-injecting apparatus for internal-combustion engines. No. 1,388,588; Aug. 23; v. 289; p. 701.
Mueller, Paul M., assignor to American Sterilizer Company, Erie, Pa. Heating-element-controlling device. No. 1,388,589; Aug. 23; v. 289; p. 701.
Murphy, James L., Chicago, Ill. Collar. No. 1,388,660; Aug. 23; v. 289; p. 715.
Murphy, James L., Chicago, Ill. Collar. No. 1,388,661; Aug. 23; v. 289; p. 715.
Murray, William F., Minneapolis, Minn. Device for preventing wrecking cross-wires of trolley systems. No. 1,388,287; Aug. 23; v. 289; p. 642.
Musselman, Layton M., Jersey City, N. J. Horseshoe. No. 1,388,477; Aug. 23; v. 289; p. 680.
Myers, Hiram, Sterling, Ill. Hoisting device. No. 1,388,288; Aug. 23; v. 289; p. 642.
Nagai, Genji, Tokyo, Japan. Knockdown packing-box. No. 1,388,366; Aug. 23; v. 289; p. 658.
National Aniline & Chemical Co. (See Ralph, Walter M., assignor.) (Reissue.)
National Carbon Company. (See Bronle, William, assignor.)
National Carbon Company. (See Casella, Secondo L., assignor.)
National Carbon Company. (See Voorhees, Lee J., assignor.)
National Electrical Supply Company. (See Fearn, Richard L., Jr., assignor.)
Navarro, Julio S., Habana, Cuba. Trolley-wheel for electric street-cars. No. 1,388,590; Aug. 23; v. 289; p. 701.
Neely, Edward, Chicago, Ill. Elastic wheel. No. 1,388,289; Aug. 23; v. 289; p. 642.
Negus, Alfred C., Schenectady, N. Y. Pedestal-tie. No. 1,388,367; Aug. 23; v. 289; p. 658.
Neil, Gustave M., assignor to The Denver Rock Drill Manufacturing Company, Denver, Colo. Means for opening the bores of rock-drilling steels. No. 1,388,437; Aug. 23; v. 289; p. 673.
Nelson, Albert R., Sheridan, Wyo. Tent. No. 1,388,478; Aug. 23; v. 289; p. 680.
Nelson, C. R. and W. A. (See Nelson, Charles R., assignor.)
Nelson, Charles R., assignor to C. R. and W. A. Nelson, Chicago, Ill. Loose-leaf binder. No. 1,388,591; Aug. 23; v. 289; p. 701.
Nelson, E. A., Automobile Company. (See Nelson, Emil A., assignor.)
Nelson, Emil A., assignor to E. A. Nelson Automobile Company, Detroit, Mich. Tappet-valve mechanism for internal-combustion engines. No. 1,388,592; Aug. 23; v. 289; p. 702.
Nelson, Joyce C., Tracy, assignor of one-third to G. T. Schesvold, Minneapolis, and one-third to R. J. Nelson, Gales, Minn. Clamping device for bearings. No. 1,388,290; Aug. 23; v. 289; p. 642.
Nelson, Robert J., *et al.* (See Nelson, Joyce C., assignor.)
New System Manufacturing Company, The. (See Harkrader, George H., assignor.)
Newell, Robert E., Irwin, Pa. Automatic cut-off for gas-valves. No. 1,388,593; Aug. 23; v. 289; p. 702.
Newman, John F., Kansas City, Mo; Hoe. No. 1,388,191; Aug. 23; v. 289; p. 622.
Nicklaus, William E., Madison, Ind. Backrest for farm machinery. No. 1,388,291; Aug. 23; v. 289; p. 642.
Nickum, Walter D., Glendale, Calif. Electrical water-level-indicating apparatus. No. 1,388,479; Aug. 23; v. 289; p. 681.
Nitsch, Charles H. (See Weightman, W. A., and Nitsch.)
Noakes, Robert J., Montreal, Quebec, Canada, assignor to Chicago Pneumatic Tool Company, New York, N. Y. Valve-coupling. No. 1,388,523; Aug. 23; v. 289; p. 689.
Nolsom, Ole P., South Bend, Ind. Compass. No. 1,388,292; Aug. 23; v. 289; p. 643.
Nollmann, Georg, Buenos Aires, Argentina. Rotary motor. No. 1,388,438; Aug. 23; v. 289; p. 673.
Non-Explosive Appliance Company. (See Halt, Charles H., assignor.)
Norfolk, Joseph R. B., Jessup, Md. Control for artificial arms and legs. No. 1,388,524; Aug. 23; v. 289; p. 689.
Norris, Emma M., executrix. (See Norris, John H.)
Norris, John H., deceased, New York, N. Y.; E. M. Norris, executrix. Meter. No. 1,388,835; Aug. 23; v. 289; p. 749.
Novick, Abraham, assignor to F. L. Smithe Machine Company, Incorporated, New York, N. Y. Machines for attaching string to envelops and the like. No. 1,388,594; Aug. 23; v. 289; p. 702.
Novotney, Frank J., Kansas City, Mo. Bellows-box. No. 1,388,293; Aug. 23; v. 289; p. 643.
Nucera, Lewis A., Buffalo, N. Y. Resilient wheel. No. 1,388,820; Aug. 23; v. 289; p. 746.

Odhner, Valentin J., Turisthotellet, Hindås, Sweden. Supporting means of the ten-pin, hundred-pin, &c., of the calculating-wheels in calculating-machines. No. 1,388,746; Aug. 23; v. 289; p. 732.

Ofensend, Chase F., assignor to The Miller Rubber Company, Akron, Ohio. Building cord tires. No. 1,388,747; Aug. 23; v. 289; p. 732.

Officer, Wyman L., Warren, Minn. Means for connecting flexible elements to drums. No. 1,388,662; Aug. 23; v. 289; p. 715.

Officer, Wyman L., Warren, Minn. Rope-end head. No. 1,388,663; Aug. 23; v. 289; p. 716.

Officer, Wyman L., Warren, Minn. Rope-end head. No. 1,388,664; Aug. 23; v. 289; p. 716.

Ole, Gustav. (See Larson, Alfred, assignor.)

Olander, Aiden C., Billings, Mont. Tire-protector. No. 1,388,748; Aug. 23; v. 289; p. 732.

Olbon, John A., Paterson, N. J. Guide for quill-winders. No. 1,388,595; Aug. 23; v. 289; p. 702.

Olney, George J., Westernville, N. Y. Measuring device. No. 1,388,192; Aug. 23; v. 289; p. 622.

Oneal, Zack. (See Whipple, L., and Oneal.)

Orr, Samuel W., Green Valley, Ill. Hog-ring. No. 1,388,596; Aug. 23; v. 289; p. 703.

Owers, Ernest, F. C. Pearson, and A. W. Berndt, London, England. Laminar suspension or shock-absorbing springs for use on vehicles and aircraft. No. 1,388,525; Aug. 23; v. 289; p. 689.

Packers, Machinery & Equipment Co., The. (See Jordan, Robert E., assignor.)

Page, Albert E., Laconia, N. H., assignor to Scott and Williams, Inc., Boston, Mass. Yarn-feed for knitting-machines. No. 1,388,749; Aug. 23; v. 289; p. 732.

Palmer, Alfred T., Medford, Mass. Calling device. No. 1,388,368; Aug. 23; v. 289; p. 658.

Palmer, Alfred T., Medford, Mass. Signaling device. No. 1,388,369; Aug. 23; v. 289; p. 659.

Palmer, Chester M., Aurora, Ill. Animal-shears. No. 1,388,439; Aug. 23; v. 289; p. 673.

Palmer, George L. W., Plainfield, N. J. Projecting apparatus. No. 1,388,193; Aug. 23; v. 289; p. 622.

Palmer, Harold N., Putnam, Conn. Tractor attachment No. 1,388,750; Aug. 23; v. 289; p. 751.

Palmer, William F., Charleston, W. Va. Crosstie. No. 1,388,751; Aug. 23; v. 289; p. 733.

Pappas, Harry N., Okmulge, Okla. Protecting-armor for tires. No. 1,388,597; Aug. 23; v. 289; p. 703.

Paris, Auguste J., Jr., Charleston, W. Va. Separating useful products from the exhaust of internal-combustion engines. No. 1,388,480; Aug. 23; v. 289; p. 681.

Parker, George F. (See Dennis, Thomas L., assignor.)

Parkersburg Rig & Reel Company. (See Bloss, R. R., and Schweimlein, assignors.)

Parmley, Walter C. (See Gilman, C., and Parmley.)

Partridge, Arthur S., *et al.* (See Ehrlich, Leo, assignor.)

Paulissen, Joseph P., Kankakee, Ill. Reinforced-concrete building. No. 1,388,752; Aug. 23; v. 289; p. 733.

Pearson, Francis C. (See Owers, E., Pearson, and Berndt.)

Pease, Gilbert S., Richfield, Wis. Modulating device for sound-reproducers. No. 1,388,753; Aug. 23; v. 289; p. 733.

Pechkranz, Rodolphe, Carouge-Geneva, Switzerland. Manufacture of metallic diaphragms of electrolytic cells. No. 1,388,754; Aug. 23; v. 289; p. 733.

Pedersen, John E., Illisboro, Ill., assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Shaking mechanism for filtering apparatus. No. 1,388,294; Aug. 23; v. 289; p. 643.

Pieper, Oscar H. and A. F., Rochester, N. Y. Hot-air syringe. No. 1,388,526; Aug. 23; v. 289; p. 689.

Pellaton, Edmond, Le Locle, Switzerland, assignor to Fabriques des Montres Zenith successeur de Fabriques des Montres Zenith Georges-Favre-Tacot & Cie. Watch-winding and hands setting mechanism. No. 1,388,755; Aug. 23; v. 289; p. 733.

Peninsular Stove Company. (See Lane, John H., assignor.)

Perkins, Richard E., Boston, Mass. Razor. No. 1,388,598; Aug. 23; v. 289; p. 703.

Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Demountable-rim-operating tool. No. 1,388,195; Aug. 23; v. 289; p. 623.

Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Rim-operating tool. No. 1,388,194; Aug. 23; v. 289; p. 623.

Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Rim. No. 1,388,196; Aug. 23; v. 289; p. 623.

Perlman, Louis H., New York, N. Y., assignor to General Motors Corporation. Wheel. No. 1,388,197; Aug. 23; v. 289; p. 623.

Peters, Frederick, New York, N. Y. Attachment for children's carriages. No. 1,388,756; Aug. 23; v. 289; p. 734.

Petersen, Paul W., Chicago, Ill. Refrigerating apparatus. No. 1,388,295; Aug. 23; v. 289; p. 643.

Petersen, Paul W., Chicago, Ill. Container for comestibles. No. 1,388,296; Aug. 23; v. 289; p. 643.

Petersen, Paul W., Chicago, Ill. Rack for comestibles. No. 1,388,297; Aug. 23; v. 289; p. 644.

Petersen, Paul W., Chicago, Ill. Preserving comestibles. No. 1,388,298; Aug. 23; v. 289; p. 644.

Peterson, Victor W., Chicago, Ill. Ventilating curtain-window. No. 1,388,370; Aug. 23; v. 289; p. 659.

Pfeil, Charles J., assignor of one-half to Mrs. C. McGraw, Washington, D. C. Game. No. 1,388,599; Aug. 23; v. 289; p. 703.

Philadelphia Textile Machinery Company, The. (See Ayres, Elwood B., assignor.)

Philippe, Frank, Hammond, Ind. Vegetable and fruit dispenser. No. 1,388,198; Aug. 23; v. 289; p. 623.

Phillips, Charles H., Malden, assignor to Phillips Flushing Tank Company, Boston, Mass. Flushing-valve. No. 1,388,481; Aug. 23; v. 289; p. 681.

Phillips Flushing Tank Company. (See Phillips, Charles H., assignor.)

Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)

Pieper, Oscar H. and A. F., Rochester, N. Y. Ionisation-current regulator. No. 1,388,527; Aug. 23; v. 289; p. 689.

Pierce, Andrew J., deceased, Chicago, Ill., K. M. Pierce, executrix. Motor. No. 1,388,371; Aug. 23; v. 289; p. 659.

Pierce, Katherine M., executrix. (See Pierce, Andrew J.)

Pierce, Paul B. (See Ray, W. H., and Pierce.)

Porter, Frank J., Kerman, Calif. Grappling-hook. No. 1,388,482; Aug. 23; v. 289; p. 681.

Posson, Edward, Chicago, Ill. Refrigerator-car construction. No. 1,388,600; Aug. 23; v. 289; p. 703.

Powers Accounting Machine Company. (See Lasker, William W., assignor.)

Powers Accounting Machine Company. (See Powers, James, assignor.)

Powers, Earl V., and W. J. Boyd, St. Louis, Mo. Auto adjustable sunshade. No. 1,388,199; Aug. 23; v. 289; p. 623.

Powers, James, assignor to Powers Accounting Machine Company, New York, N. Y. Combined perforating and printing tabulator mechanism. No. 1,388,299; Aug. 23; v. 298; p. 644.

Prairie, Exseor, West Kankakee, Ill. Loading device. No. 1,388,601; Aug. 23; v. 289; p. 703.

Prestgard, Thor P., Hedalen, near Sjoa, Norway. Sprinkling-machine. No. 1,388,440; Aug. 23; v. 289; p. 673.

Price, William G., Yakima, Wash. Box or package handling apparatus. No. 1,388,200; Aug. 23; v. 289; p. 624.

Price, William G., Yakima, Wash. Fruit-box press. No. 1,388,201; Aug. 23; v. 289; p. 624.

Priebe, A. and H., Antigo, Wis. Heater for automobile-radiators. No. 1,388,300; Aug. 23; v. 289; p. 644.

Priebe, Hubert. (See Priebe, Amandus and H.)

Prindle, Edwin J., East Orange, N. J., assignor, by mesne assignments, to Fits-Empire Double Pivot Last Company, Auburn, Me. Manufacture of articles having a systematic resemblance to a pattern. No. 1,388,301; Aug. 23; v. 289; p. 644.

Prindle, Edwin J., East Orange, N. J., assignor, by mesne assignments, to Fits-Empire Double Pivot Last Company, Auburn, Me. Manufacture of articles having a systematic resemblance to a pattern. No. 1,388,302; Aug. 23; v. 289; p. 645.

Process Company, The. (See Coast, John W., Jr., assignor.)

Products Syndicate. (See Byers, Joseph J., assignor.)

Publisher's Utilities Co., The. (See Hopkins, Edward P., assignor.)

Pulliam, George E., Mount Vernon, Ill. Hurdle and vaulting standard. No. 1,388,821; Aug. 23; v. 289; p. 747.

Pulliam, Oswald S., New York, N. Y. Variable-speed power transmission. No. 1,388,303; Aug. 23; v. 289; p. 645.

Pullman Manufacturing Company. (See Hughes, John, assignor.)

Pupin, Michael I., Norfolk, Conn., and E. H. Armstrong, Yonkers, N. Y. Multiple antenna for electrical wave transmission. No. 1,388,441; Aug. 23; v. 289; p. 674.

Purcell, Arthur N., Corona, N. Y. Runner for wheeled vehicles. No. 1,388,757; Aug. 23; v. 289; p. 734.

Putnam, Aiden L., Detroit, Mich., assignor, by mesne assignments, to Detroit Pressed Steel Company, Wilmington, Del. Vehicle-wheel. No. 1,388,665; Aug. 23; v. 289; p. 716.

R. E. D. Engine Company. (See Ford, Eugene A., assignor.)

Radin, Alexander, New York, N. Y. Necktie-holder. No. 1,388,304; Aug. 23; v. 289; p. 645.

Rahmeyer, Franz P., Hampton, Nebr. Rotary-valve motor. No. 1,388,758; Aug. 23; v. 289; p. 759.

Ralph, Walter M., Buffalo, assignor to National Aniline & Chemical Co., Inc., New York, N. Y. Disazo dye. (Reissue.) No. 15,182; Aug. 23; v. 289; p. 750.

Rapizzi, Gaetano, Parabiago, Italy. Electric folding and curling iron. No. 1,388,759; Aug. 23; v. 289; p. 734.

Rasnick, Joseph S., St. Paul, Va., and W. S. Blevins, Kingsport, Tenn. Air-brake control. No. 1,388,483; Aug. 23; v. 289; p. 681.

Rau, Herman, assignor to Doehler Die Casting Company, Brooklyn, N. Y. Mold-forming apparatus. No. 1,388,442; Aug. 23; v. 289; p. 674.

Raven, John, Deervale via Armidale, New South Wales, Australia. Ratchet-spanner. No. 1,388,760; Aug. 23; v. 289; p. 734.

Rawley, Fleming C., Houston, Tex. Farm-gate. No. 1,388,484; Aug. 23; v. 289; p. 682.

Rawlings, Ruby M. (See Bamforth, Thomas H., assignor.)

Rawson, Harry H., Spokane, Wash. Body-hoist. No. 1,388,372; Aug. 23; v. 289; p. 659.

Ray, William H., and Paul B. Pierce, assignors to The Weis Fibre Container Corporation, Monroe, Mich. Automatic fiber-container machine. No. 1,388,202; Aug. 23; v. 289; p. 624.

Reed, Genevieve, Naugatuck, Conn. Traffic-signal. No. 1,388,761; Aug. 23; v. 289; p. 735.

Reid, James H., Pittsburgh, Pa., assignor to International Nitrogen Company. Making metal nitrogen-containing compounds augmented by gaseous catalysts. No. 1,388,603; Aug. 23; v. 289; p. 704.

Remington, Fred E. (See Haynes, William G., assignor.)

Remington Typewriter Company. (See Bridgewater, Herbert E., assignor.)

Remington Typewriter Company. (See Schmidt, Wilhelm A., assignor.)

Remington Typewriter Company. (See Smith, Arthur W., assignor.)

Remington Typewriter Company. (See Woodward, Oscar, assignor.)

Remy Electric Company. (See Berdon, Albert E., assignor.)

Resek, Marc. (See Chadwick, L. S., and Resek.)

Rhodes, John M. (See Hessing, Lawrence W., assignor.)

Richter, Herman F., Los Angeles, Calif. Hydrocarbon-burner. No. 1,388,604; Aug. 23; v. 289; p. 704.

Richtmyer, Floyd K., Ithaca, N. Y. High-resistance unit. No. 1,388,373; Aug. 23; v. 289; p. 660.

Ridenour-Baker Grocery Company. (See Witt, Roscoe P., assignor.)

Rieff, John G., London, Wis. Detachable chain-hook. No. 1,388,305; Aug. 23; v. 289; p. 646.

Rifner, Frank D., Dayton, Ohio. Press-die. No. 1,388,374; Aug. 23; v. 289; p. 660.

Riley, Ralph E., Akron, Ohio, assignor to The Miller Rubber Company. Manufacture of rubber bathing-caps. No. 1,388,762; Aug. 23; v. 289; p. 735.

Ripsch, C. W.; J. C. Dawley, and C. D. Derby, assignors to The Joyce Cridland Company, Dayton, Ohio. Lifting-jack for trucks. No. 1,388,836; Aug. 23; v. 289; p. 749.

Roberts, David, Ann Arbor, Mich. Fencepost-mold. No. 1,388,763; Aug. 23; v. 289; p. 735.

Roberts, Hugh L. (See Evans, R. L., and Roberts.)

Roberts, Lyman R., Rutherford, N. J. Typewriter. No. 1,388,203; Aug. 23; v. 289; p. 624.

Robinson, Charles W., and E. Baseman, Hamilton, Ontario, Canada, assignors, by mesne assignments, to International Harvester Company, Chicago, Ill. Bundle-carrier for harvesters. No. 1,388,306; Aug. 23; v. 289; p. 646.

Robinson, William H., Detroit, Mich. Wardrobe. No. 1,388,307; Aug. 23; v. 289; p. 646.

Rogers, Edwin W., and C. C. Chapel, Marshfield, Wis. Typographical machine. No. 1,388,764; Aug. 23; v. 289; p. 735.

Rogers, Frank P., Worcester, Mass. Device for dressing grinding-wheels. No. 1,388,308; Aug. 23; v. 289; p. 646.

Root, Walter F., Philadelphia, assignor of one-half to F. Beissel, Darby, Pa. Game. No. 1,388,666; Aug. 23; v. 289; p. 716.

Rosenfeld, Joseph E., Council Bluffs, Iowa. Ground. No. 1,388,485; Aug. 23; v. 289; p. 682.

Ross, James, Chicago, Ill. Boiler-tube-cleaning device. No. 1,388,309; Aug. 23; v. 289; p. 646.

Rotteleur, Paul C. A., Maurecourt, France. Deep-well pump. No. 1,388,602; Aug. 23; v. 289; p. 704.

Rouanet, Louis, Ivry Port, France, assignor to Compagnie D'Applications Mecaniques, Paris, France. Detachable wheel. No. 1,388,605; Aug. 23; v. 289; p. 704.

Rowe, Alvin V., Galesburg, Ill. Gate. No. 1,388,375; Aug. 23; v. 289; p. 660.

Rowe, Harley A., Brandon, Vt. Sled-brake. No. 1,388,765; Aug. 23; v. 289; p. 735.

Rowe Manufacturing Co. (See Knutson, Alfred W., assignor.)

Royal Trust Company, The, executor and trustee. (See Kennedy, Robert G.)

Roys, Herman E., assignor, by mesne assignments, to Universal Interests, Inc., New York, N. Y. Circulator-heater. No. 1,388,822; Aug. 23; v. 289; p. 747.

Royston, William H., New York, N. Y. Toilet article. No. 1,388,204; Aug. 23; v. 289; p. 625.

Ruebsamen, A., and W. L. Dennis, Decatur, Ill. Farebox. No. 1,388,310; Aug. 23; v. 289; p. 647.

Ruppel, Frederick C., assignor to Hayes-Ruppel Manufacturing Company, Grand Rapids, Mich. Mold for hollow bodies. No. 1,388,376; Aug. 23; v. 289; p. 660.

Russell, Frederick C. (See Russell, John M. and F. C.)

Russell, John M. and F. C., San Bruno, Calif. Fluid clutch and transmission. No. 1,383,311; Aug. 23; v. 289; p. 647.

Ruth, Joseph P., Jr., Denver, Colo. Manifold-heater. No. 1,388,377; Aug. 23; v. 289; p. 660.

Rutz, Henry J., Lake City, Minn. Variable track-hinge. No. 1,388,205; Aug. 23; v. 289; p. 625.

Sanford-Day Iron Works. (See Sanford, H. W., Griffith, and Jones, assignors.)

Sanford, Hugh W., C. A. Griffith, and G. E. Jones, Jr., assignors to Sanford-Day Iron Works, Knoxville, Tenn. Railway-car. No. 1,388,486; Aug. 23; v. 289; p. 682.

Schang, Frederick, New York, assignor to The Lorscheider-Schang Co., Inc., Rochester, N. Y. Receptacle or container. No. 1,388,206; Aug. 23; v. 289; p. 625.

Scheminger, John, Jr. (See Woodbury, Homer C., assignor.)

Scherer, Benoit, La Garenne-Colombes, France. Sparking plug with self-cleaning electrode. No. 1,388,766; Aug. 23; v. 289; p. 736.

Schesvoid, George T., *et al.* (See Nelson, Joyce C., assignor.)

Schicke, Josef F., assignor to Josef F. Schicke, trustee, St. Louis, Mo. Combination-lock. No. 1,388,378; Aug. 23; v. 289; p. 660.

Schicke, Josef F., trustee. (See Schicke, Josef F., assignor.)

Schick, William, Topeka, Kans. Davenport. No. 1,388,606; Aug. 23; v. 289; p. 704.

Schinke, Edward C., and N. A. Sutherland, assignors to Typewriter Calculating Attachment Company, St. Louis, Mo. Calculating-machine. No. 1,388,379; Aug. 23; v. 289; p. 661.

Schlesinger, Leo, & Co. (See Minton, Gustave M., assignor.)

Schmidt, Wilhelm A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,388,207; Aug. 23; v. 289; p. 625.

Schmitt, John A., Columbus, Ohio, assignor to The Universal Milking Machine Company. Teat-cup. No. 1,388,380; Aug. 23; v. 289; p. 661.

Schneider, Eugene, assignor to Schneider & Cie., Paris, France. Safety apparatus for preventing the opening of the breech of a gun before the recoil of the gun-barrel. No. 1,388,607; Aug. 23; v. 289; p. 705.

Schneider & Cie. (See Schneider, Eugene, assignor.)

Schow, Martin C., Regent, N. D. Calf-weaning device. No. 1,388,608; Aug. 23; v. 289; p. 705.

Schuessler, Leo W., Chicago, Ill. Air-preheating device. No. 1,388,381; Aug. 23; v. 289; p. 661.

Schumacher, Henry C., Barberton, Ohio, assignor to The Diamond Match Company, Chicago, Ill. Shuck-feeding mechanism for box-filling machines. No. 1,388,668; Aug. 23; v. 289; p. 716.

Schuyler, William H., and G. J. Chiles, Chicago, Ill. Means for polishing space-bands. No. 1,388,767; Aug. 23; v. 289; p. 736.

Schwartz, Fred A., Brooklyn, N. Y. Mold for pneumatic-tire tubes. No. 1,388,382; Aug. 23; v. 289; p. 661.

Schweimlein, William. (See Bloss, R. R., and Schweimlein.)

Scott and Williams. (See Page, Albert E., assignor.)

Scott, Frank S., Heyburn, Idaho. Shoe-shining stand. No. 1,388,768; Aug. 23; v. 289; p. 736.

Scovill, James P., Troy, N. Y., assignor, by mesne assignments, to Tolhurst Machine Works. Tobacco-stemming machine. No. 1,388,487; Aug. 23; v. 289; p. 682.

Scully, William J., Newport, Ky. Stenographer's rapid recorder. No. 1,388,769; Aug. 23; v. 287; p. 736.

St. Clair, Merle C. (See Bronson, G. C., and St. Clair.)

Searle, Henry C., West Roxbury, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Buttonhole-sewing machine. No. 1,388,313; Aug. 23; v. 289; p. 647.

Seeger, Carl H., Manitowoc, Wis. Saliva-ejector. No. 1,388,312; Aug. 23; v. 289; p. 647.

Seifert, William V., Denver, Colo. Well-digger. No. 1,388,314; Aug. 23; v. 289; p. 648.

Senn, Arthur L., Seattle, Wash. Electrovapor-heated steering-wheel. No. 1,388,488; Aug. 23; v. 289; p. 682.

Seppmann, Alfred B., Lake Crystal, Minn. Carbon-scraper. No. 1,388,489; Aug. 23; v. 289; p. 682.

Sharp, Alexander B., Steubenville, Ohio. Gas-burner. No. 1,388,609; Aug. 23; v. 289; p. 705.

Sharpnack, Matthew C., Omaha, assignor of one-half to C. I. Hiddleston, Sr., Douglas county, Nebr. Airplane. No. 1,388,770; Aug. 23; v. 289; p. 736.

Sharyon, Leo G., Little Falls, Minn. Paper-cuspidor holder. No. 1,388,771; Aug. 23; v. 289; p. 737.

Sheehan, Frank T., Ithaca, N. Y. Knee-supporter. No. 1,388,772; Aug. 23; v. 289; p. 737.

Sheldon, Frank D., Chicago, Ill. Fluid-pump. No. 1,388,315; Aug. 23; v. 289; p. 648.

Shertzer, Leavitt A., assignor of one-half to E. W. Hart, Massillon, Ohio. Nut-lock. No. 1,388,610; Aug. 23; v. 289; p. 705.

Shimpf, Walter H. (See Sunderman, F. R., and Shimpf.)

Shipman, Lewis H., Boston, Mass. Trolley-shoe. No. 1,388,528; Aug. 23; v. 289; p. 690.

Shipp, Clarence C., Indianapolis, Ind. Automatic ventilator. No. 1,388,611; Aug. 23; v. 289; p. 705.

Simon, George. (See Bartholomew, N., and Simon.)

Simon, Henry, assignor of one-half to J. W. Skidmore, Laguna Beach, Calif. Combination-square. No. 1,388,612; Aug. 23; v. 289; p. 706.

Simone, Domenico, Washington, D. C. Rubber-heel. No. 1,388,773; Aug. 23; v. 289; p. 737.

Simsohm, Julian S., Philadelphia, Pa. Automatically regulating the addition of a treating agent to water. No. 1,388,613; Aug. 23; v. 289; p. 706.

Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)

Skidmore, Joseph W. (See Simon, Henry, assignor.)

Skinner, Frederick E., *et al.* (See Turner, Alan L., assignor.)

Slade, Walter W., Brookline, assignor to Globe Optical Company, Boston, Mass. Lens-cutting machine. No. 1,388,774; Aug. 23; v. 289; p. 737.

Smith, Anna B., Ebb, Fla. Supporter. No. 1,388,775; Aug. 23; v. 289; p. 737.

Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,388,208; Aug. 23; v. 289; p. 625.
Smith, Arthur W., New York, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,388,209; Aug. 23; v. 289; p. 626.
Smith, Cecilia, universal legatee. (See Smith, William D.)
Smith, Charles D., St. Louis, Mo. Shoe-heel. No. 1,388,776; Aug. 23; v. 289; p. 738.
Smith, Charles H., Boston, Mass. Temperature-controlled safety relief-valve for hot-water boilers. No. 1,388,388; Aug. 23; v. 289; p. 661.
Smith, Goodwin B., Philadelphia, Pa. Supporter of catamenial sacks or napkins. No. 1,388,529; Aug. 23; v. 289; p. 690.
Smith, James C., Paterson, N. J., assignor to McNab & Harlin Mfg. Co., New York, N. Y. Gate-valve. No. 1,388,777; Aug. 23; v. 289; p. 728.
Smith, Peter, Heater Company, The. (See Gardiner, William H., assignor.)
Smith, Wilburn B., and D. N. Swatzell, Birmingham, Ala. Locking device for motors. No. 1,388,778; Aug. 23; v. 289; p. 738.
Smith, William D., deceased; C. Smith, universal legatee, Montreal, Quebec, Canada. Smoke-consumer. No. 1,388,384; Aug. 23; v. 289; p. 662.
Smithe, F. L., Machine Company. (See Novick, Abraham, assignor.)
Snead & Co., Iron Works, The. (See Macdonald, H. P., and Thomson, assignors.)
Snow, Isaac, Lawrence, assignor to Draper Corporation, Hopedale, Mass. Feeler mechanism for looms. No. 1,388,210; Aug. 23; v. 289; p. 626.
Societe Anonyme Du Moteur L. Thomas. (See Thomas, L. V., and Guerin, assignors.)
Sorensen, Gustav A., Jamaica, N. Y. Egg-cooker. No. 1,388,644; Aug. 23; v. 289; p. 706.
Spiro, Charles, assignor to Federal Adding Machine Corportation, New York, N. Y. Escapement mechanism. No. 1,388,615; Aug. 23; v. 289; p. 706.
Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Case-shifting mechanism. No. 1,388,616; Aug. 23; v. 289; p. 700.
Stackhouse, Milroy G., Tulsa, Okla. Rail-joint. No. 1,388,779; Aug. 23; v. 289; p. 738.
Stahl, Charles E., Winthrop Harbor, assignor to F. C. Austin, Chicago, Ill. Combined driving and steering gear. No. 1,388,669; Aug. 23; v. 289; p. 716.
Stamen, Victorene L., *et al.* (See Light, Claus H., assignor.)
Stanbrough, Margaret E. N. (See Stanbrough, Rufus G., assignor.)
Stanbrough, Rufus G., assignor to Margaret E. N. Stanbrough, New York, N. Y. Handpiece for dental engines. No. 1,388,617; Aug. 23; v. 289; p. 707.
Standard Oil Company. (See Clark, Edgar M., assignor.)
Standard Oil Company. (See Cobb, Ernest B., assignor.)
Standard Parts Company, The. (See Zimmerman, Thomas, assignor.)
Stanley, Arthur E., Elkhart, Ind. Pump. No. 1,388,780; Aug. 23; v. 289; p. 738.
Stanley, Vincent C., Brookline, Mass., assignor to The Gamewell Fire Alarm Telegraph Company, New York, N. Y. Electrode for storage batteries. No. 1,388,530; Aug. 23; v. 289; p. 690.
Starr, George F., Salem, Oreg. Prune-tray cleaner and sacker. No. 1,388,211; Aug. 23; v. 289; p. 626.
Stein, Alec and G., New York, N. Y. Finger-protector. No. 1,388,618; Aug. 23; v. 289; p. 707.
Stein, George. (See Stein, Alec and G.)
Stevens, Elbridge W., Baltimore, Md., assignor to Chemical Fuel Company of America, Inc., Louisville, Ky. Motor-fuel. No. 1,388,531; Aug. 23; v. 289; p. 690.
Stewart, Ralph E., Los Angeles, and H. H. Hammerstrom, Sierra Madre, Calif. Leak-indicator for tire-valves. No. 1,388,443; Aug. 23; v. 289; p. 674.
Stibbe, Godfrey, Leicester, England. Dial and cylinder knitting-machine. No. 1,388,781; Aug. 23; v. 289; p. 739.
Stokes and Smith Company. (See Weightman, W. A., and Nitsch, assignors.)
Stokoe, Ashley M., St. Paul, Minn. Apparatus for sorting clothing and other articles. No. 1,388,385; Aug. 23; v. 289; p. 616.
Stoll, Frank A., Buffalo, N. Y., assignor to American Radiator Company, Chicago, Ill. Valve-handle. No. 1,388,316; Aug. 23; v. 289; p. 648.
Stone, Melvin L., Lawrence, assignor to Draper Corporation, Hopedale, Mass. Warp stop mechanism for looms. No. 1,388,212; Aug. 23; v. 289; p. 626.
Strader, Virgil R., Philippi, W. Va. Suspender. No. 1,388,213; Aug. 23; v. 289; p. 626.
Strater, Theodore G., Brookline, Mass. Faucet-lock. No. 1,388,532; Aug. 23; v. 289; p. 690.
Stuart, Kenneth E. (See Lyster, T. L. B., and Stuart.)
Stubblefield, John A., Portland, Oreg. Nut-lock. No. 1,388,317; Aug. 23; v. 289; p. 648.
Suczek, Robert, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Fluid-compressing apparatus. No. 1,388,670; Aug. 23; v. 289; p. 717.
Suman, John R., Houston, Tex. Rotary earth-boring drill. No. 1,388,490; Aug. 23; v. 289; p. 683.
Sunderman Corporation. (See Sunderman, F. R., and Shimpf, assignors.)
Sunderman, Frederick R., and W. H. Shimpf, Detroit, Mich., assignors to Sunderman Corporation, Newburgh, N. Y. Internal-combustion engine. No. 1,388,444; Aug. 23; v. 289; p. 674.
Superheater Corporation Limited, The. (See Thom, Robert A., assignor.)
Sutherland, Norman A. (See Schinke, E. C., and Sutherland, assignor.)
Svenson, Sven, La Crosse, Wis. Bait-holder for fishhooks. No. 1,388,386; Aug. 23; v. 289; p. 662.
Swan, Albert S., Coburg, and J. A. Yeats, Richmond, Victoria, Australia. Chassis for side cars of motorcycles. No. 1,388,387; Aug. 23; v. 289; p. 662.
Swank, David L., Davidsville, Pa. Automatic car-dump mechanism. No. 1,388,388; Aug. 23; v. 289; p. 663.
Swatzell, David N. (See Smith, W. B., and Swatzell.)
Swift, Willard E., Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass. Window-envelop. No. 1,388,837; Aug. 23; v. 289; p. 749.
Swindale, John W. (See Lee, H. W., and Swindale.)
Symons, William, Iron River, Mich. Making concrete lined pipe. No. 1,388,619; Aug. 23; v. 289; p. 707.
Tamurn, Shinkichi, Kobe, and M. Watanabe, Tokyo, Japan, said Watanabe assignor to said Tamura. Supporting apparatus for the rear-wheel shaft of a motor-car. No. 1,388,389; Aug. 23; v. 289; p. 663.
Tate, Alfred O., New York, N. Y. Calender-roll. No. 1,388,215; Aug. 23; v. 289; p. 627.
Tate, Alfred O., New York, N. Y. Windshield for vehicles. No. 1,388,214; Aug. 23; v. 289; p. 627.
Terhune, Howard, Cleveland, Ohio. Board-hammer. No. 1,388,671; Aug. 23; v. 289; p. 717.
Thatcher, Charles J., New York, N. Y. Electrolytic cell. No. 1,388,216; Aug. 23; v. 289; p. 627.
Thom, Robert A., Manchester, assignor to The Superheater Corporation, Limited, London, England. Pipe-coupling. No. 1,388,491; Aug. 23; v. 289; p. 683.
Thomas, Cyril H., Chicago, Ill. Insulator. No. 1,388,217; Aug. 23; v. 289; p. 627.
Thomas, Edward, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,388,218; Aug. 23; v. 289; p. 627.
Thomas, Louis V., and J. A. Guérin, assignors to Societe Anonyme du Moteur L. Thomas, Lyon, France. Two-stroke-cycle internal-combustion engine. No. 1,388,390; Aug. 23; v. 289; p. 663.
Thompson, Frank, assignor to C. Howard Hunt Pen Company, Camden, N. J. Advertising device. No. 1,388,219; Aug. 23; v. 289; p. 628.
Thompson, Henry P., Chicago, Ill. Spot-lamp for automobiles and the like. No. 1,388,220; Aug. 23; v. 289; p. 628.
Thomson, William S. (See Macdonald, H. P., and Thomson.)
Thomsen, John H., Davenport, Iowa. Manhole-cover. No. 1,388,492; Aug. 23; v. 289; p. 683.
Thurshy, William M., Watrous, Saskatchewan, Canada. Lubricator. No. 1,388,672; Aug. 23; v. 289; p. 717.
Thurston, Fred W. (See Bernay, Henri, assignor.)
Tidewater Equipment Corporation. (See Esterline, J. W., and Angus, assignors.)
Toepfer, Charles and E. J., Milwaukee, Wis. Headlight-shield. No. 1,388,221; Aug. 23; v. 289; p. 628.
Toepfer, Edward J. (See Toepfer, Charles and E. J.)
Tolhurst Machine Works. (See Scovill, James P., assignor.)
Toutges, Jasper, Holland, Minn. Extensible car-step. No. 1,388,493; Aug. 23; v. 289; p. 683.
Trainer, Thomas E., San Antonio, Tex. Valve. No. 1,388,673; Aug. 23; v. 289; p. 717.
Traut & Hine Mfg. Company, The. (See Walker, Thomas D., assignor.)
Tremont Products Company. (See Baker, Malcolm H., assignor.)
Trick, Walter H. (See Holmes, F. D., and Trick.)
Tripp, Edward N., *et al.* (See Turner, Alan L., assignor.)
Troy Laundry Machinery Co. (See Bartholomew, W., and Simon, assignors.)
Tsenes, Spiro J., St. Louis, Mo. Crossing-gate. No. 1,388,674; Aug. 23; v. 289; p. 717.
Tupper, Johnson, River Rouge, Mich. Electric animal-trap. No. 1,388,782; Aug. 23; v. 289; p. 739.
Turner, Alan L. O., Carson City, Nev., assignor of one-fourth to C. M. Hartt, Hartford, Conn., one-fourth to F. E. Skinner and one-fourth to E. N. Tripp, Carson City, Nev. Aeroplane. No. 1,388,620; Aug. 23; v. 289; p. 707.
Turner, Thomas, J. E. Kessler, and W. L. Higgins, Huntington, W. Va. Vehicle-signal. No. 1,388,675; Aug. 23; v. 289; p. 718.
Typewriter Calculating Attachment Company. (See Schinke, E. C., and Sutherland, assignors.)
Umbsen, Henry P., San Francisco, Calif., assignor to Umbsen Manufacturing Corporation, a Corporation of Delaware. Device for treating the eyes. No. 1,388,621; Aug. 23; v. 289; p. 707.
Umbsen Manufacturing Corporation. (See Umbsen, Henry P., assignor.)
Underwood Typewriter Company. (See Bacsanyi, Geza, assignor.)
Underwood Computing Machine Company. (See Gumprecht, William L., assignor.)

Underwood Computing Machine Company. (See Hart, Frederick A., assignor.)
Underwood Computing Machine Company. (See Thomas, Edward, assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
United Bottle Machinery Co. (See Lobb, Frank H., assignor.)
United Engineering & Foundry Company. (See Moses, Richard W., assignor.)
United Shoe Machinery Corporation. (See Searle, Henry C., assignor.)
United States Envelope Company. (See Swift, Willard E., assignor.)
Universal Interests Inc. (See Roys, Herman E., assignor.)
Universal Milking Machine Company, The. (See Schmitt, John A., assignor.)
Upjohn Company, The. (See Heyl, Frederick W., assignor.)
Vakilian, Randey, Brooklyn, N. Y. Cigarette-holder. No. 1,388,222; Aug. 23; v. 289; p. 628.
Vala, Charles, Marshfield, Oreg. Butt-hook. No. 1,388,494; Aug. 23; v. 289; p. 683.
Van Horn, George T., Nutley, N. J. Door-operator. No. 1,388,533; Aug. 23; v. 289; p. 691.
Vass, Joseph, Sharpsville, Pa. Rail-joint. No. 1,388,445; Aug. 23; v. 289; p. 674.
Vermont Farm Machine Corporation. (See Hay, James J., assignor.)
Viberg, Ernest R., Montreal, Quebec, Canada. Brake-beam. No. 1,388,391; Aug. 23; v. 289; p. 663.
Vilandrer, Anna L., New York, N. Y. Clasp. No. 1,388,495; Aug. 23; v. 289; p. 684.
Village, Rowland, Ecclesall, Sheffield, England. Mold for ingots and other heavy steel castings. No. 1,388,534; Aug 23; v. 289; p. 691.
Volwiler, Ernest H. (See Kamm, O., and Volwiler.)
Voorhees, Lee J., Binghamton, N. Y., assignor to National Carbon Company, Inc., a Corporation of New York. Screw-threaded connection. No. 1,388,622; Aug. 23; v. 289; p. 708.
Voss, William, Wilmington, Del., assignor to American Car and Foundry Company, New York, N. Y. Platform end sill. No. 1,388,535; Aug. 23; v. 289; p. 691.
Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Rotary boring-drill. No. 1,388,496; Aug. 23; v. 289; p. 684.
Wadsworth, Frank L. O., Pittsburgh, Pa., assignor to Hughes Tool Company, Houston, Tex. Rotary boring-drill. No. 1,388,497; Aug. 23; v. 289; p. 684.
Wakefield, Aden, Alhambra, Calif. Hinge marker, measurer, and cutting device. No. 1,388,223; Aug. 23; v. 289; p. 629.
Waldheim, John, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,388,392; Aug. 23; v. 289; p. 663.
Walker, Thomas D., assignor to The Traut & Hine Mfg. Company, New Britain, Conn. Belt-buckle. No. 1,388,623; Aug. 23; v. 289; p. 708.
Wall, Benjamin W. (See McMichael, C. R., and Wall.)
Wallace, David T., Minneapolis, Minn. Nut-lock. No. 1,388,393; Aug. 23; v. 289; p. 664.
Wallace, Thomas W. (See Macdonald, A., and Wallace.)
Walser, Joseph J., Ann Arbor, Mich., assignor to Goss Printing Press Company, Printing-press. No. 1,388,676; Aug. 23; v. 289; p. 718.
Walter, William F. (See Elliott, William H., assignor.)
Ward, Eugene, Brooklyn, N. Y. Broom-clamp. No. 1,388,224; Aug. 23; v. 289; p. 629.
Watanabe, Masanori. (See Tamure, S. K., and Watanabe.)
Weatherly, Bessie M., Rome, Ga. Doll. No. 1,388,677; Aug. 23; v. 289; p. 718.
Webb, Ernest H., New Brunswick, N. J. Universal joint. No. 1,388,225; Aug. 23; v. 289; p. 629.
Wehn, Charles E., assignor to Listo Pencil Company, Alameda, Calif. Pencil. No. 1,388,536; Aug. 23; v. 289; p. 691.
Weidlein, L. B., *et al.* (See Geesman, Wilbur H., assignor.)
Weightman, William A., and C. H. Nitsch, Philadelphia, assignor to Stokes and Smith Company, Summerdale, Pa. Sheet-feeding mechanism. No. 1,388,678; Aug. 23; v. 289; p. 718.
Weis Fibre Container Corporation, The. (See Ray, W. H., and Pierce, assignors.)
Weithause, Julius A., Philadelphia, Pa. Loom attachment. No. 1,388,537; Aug. 23; v. 289; p. 691.
Welke, William, Cleghorn, Wis. Planter attachment. No. 1,388,498; Aug. 23; v. 289; p. 684.
Welton, William H. H., Denver, Colo. Metal tie and rail-fastener. No. 1,388,226; Aug. 23; v. 289; p. 629.
Western Electric Company. (See Bell, John H., assignor.)
Western Electric Company, Incorporated. (See Colpitts, E. H., and Arnold, assignors.)
Westinghouse Lamp Company. (See Birdsall, Wilfred T., assignor.)
Wheeler, C. H., Manufacturing Company. (See Suczek, Robert, assignor.)
Wheeler, Harry J., Kansas City, Mo. Manifold-heater for automobiles. No. 1,388,538; Aug. 23; v. 289; p. 691.
Whipple, Lessie, and Z. Oneal, Shreveport, La. Safety scaleproof automatic gage-cock. No. 1,388,624; Aug. 23; v. 289; p. 708.
White, Andrew, and M. Granum, Montevideo, Minn. Grease-gun. No. 1,388,625; Aug. 23; v. 289; p. 708.
White, Arthur H., Pittsburgh, Pa. Handle-securing wedge for tools. No. 1,388,539; Aug. 23; v. 289; p. 692.
White, Ira B., Fort Worth, Tex. Grain-bag holder. No. 1,388,823; Aug. 23; v. 289; p. 747.
Whiting, Everett H., Santa Rosa, Calif. Tractor-wheel. No. 1,388,679; Aug. 23; v. 289; p. 718.
Whitney Manufacturing Company, The. (See Belcher, Warren J., assignor.)
Wiens, Adolph R., Omaha, Nebr. Brush. No. 1,388,680; Aug. 23; v. 289; p. 719.
Willcox & Gibbs Sewing Machine Co. (See Merritt, Arthur A., assignor.)
Willett, Guy L., Louisville, Ky. Talking-machine. No. 1,388,626; Aug. 23; v. 289; p. 708.
Williams, Louis N. D., Ogontz, Pa. Stitch-doubling device and points therefor. No. 1,388,227; Aug. 23; v. 289; p. 629.
Williams, Martin F., Brooklyn, N. Y. Doubletree. No. 1,388,228; Aug. 23; v. 289; p. 629.
Winans, Wesley G., Detroit, assignor to F. Knowlson, Ann Arbor, Mich. Latch mechanism for garage-doors. No. 1,388,229; Aug. 23; v. 289; p. 630.
Wingo, William W., Wilburton, Okla. Automatic trapdoor for mines. No. 1,388,681; Aug. 23; v. 289; p. 718.
Wise, Ernest A., assignor to Herbert Merton, Caversham, Reading, England. Ignition and lighting system for internal-combustion engines. No. 1,388,540; Aug. 23; v. 289; p. 692.
Wisniewski, John, Milwaukee, Wis. Railway-car brake. No. 1,388,682; Aug. 23; v. 289; p. 719.
Witt, Roscoe P., Kansas City, Kans., assignor to Ridenour-Baker Grocery Company, Kansas City, Mo. Peanut-blanching machine. No. 1,388,394; Aug. 23; v. 289; p. 664.
Witt, Roscoe P., Kansas City, Kans., assignor to Ridenour-Baker Grocery Company, Kansas City, Mo. Blanching peanuts. No. 1,388,395; Aug. 23; v. 289; p. 664.
Wood, Joseph H., Blanks, La. Pulling apparatus for automobiles. No. 1,388,683; Aug. 23; v. 289; p. 719.
Woodbury, Homer C., assignor to J. Scheminger, Jr., Providence, R. I. Circuit-controlling apparatus. No. 1,388,541; Aug. 23; v. 289; p. 692.
Woodmansee, Roy H., Denver, Colo. Glare-shield attachment for automobile-windshields. No. 1,388,446; Aug. 23; v. 289; p. 675.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Tension-regulating device for springs. No. 1,388,230; Aug. 23; v. 289; p. 630.
Worthington, Fannie M. (See Bruce, W. J., and Worthington.)
Wright, Willie, Thomasville, Ga. Water-heater. No. 1,388,684; Aug. 23; v. 289; p. 719.
Wyman, George R., assignor to Bird & Son, Inc., East Walpole, Mass. Method of and apparatus for producing felt paper or felt. No. 1,388,685; Aug. 23; v. 289; p. 720.
Yeager, John, Baltimore, Md. Bed. No. 1,388,783; Aug. 23; v. 289; p. 739.
Yeats, John A. (See Swan, A. S., and Yeats.)
Youngblood, Joseph C., Denver, Colo. Air-pump. No. 1,388,784; Aug. 23; v. 289; p. 739.
Zaugg, William, Chattanooga, Tenn. Gate-operating mechanism for water-wheels. No. 1,388,686; Aug. 23; v. 289; p. 720.
Zeidler, Ernest, Marshfield, Wis. Cheese-box. No. 1,388,396; Aug. 23; v. 289; p. 664.
Zent, Abram L., Dayton, Ohio, assignor to The Bushnell Manufacturing Company, Kansas City, Kans. Vending-machine. No. 1,388,627; Aug. 23; v. 289; p. 709.
Zimmerman, Charles R., Memphis, Tenn. Engraving-machine. No. 1,388,687; Aug. 23; v. 289; p. 720.
Zimmerman, Thomas, assignor to The Standard Parts Company, Cleveland, Ohio. Axle. No. 1,388,397; Aug. 23; v. 289; p. 664.
Zofsak, John J., Greensburg, Pa. Washing-machine. No. 1,388,542; Aug. 23; v. 289; p. 692.
Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Polisher and grinder for wood and metal manufacturers. No. 1,388,231; Aug. 23; v. 289; p. 630.
Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Figure toy. No. 1,388,232; Aug. 23; v. 289; p. 630.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abbott, A. Theo., & Co., Philadelphia, Pa. Fiber fabric imitating silk in the piece and draperies, table-covers, pillow-tops, &c. No. 146,023; Aug. 23; v. 289; p. 791.
Ahlers, Carl, New York, N. Y. Eggs. No. 145,926; Aug. 23; v. 289; p. 787.
Albany Hardware Specialty Mfg. Co., Albany, Wis. Latches. No. 146,024; Aug. 23; v. 289; p. 791.
Allen, J. Smith & Co., Knoxville, Tenn. Self-rising wheat-flour. No. 146,002; Aug. 23; v. 289; p. 789.
American Turpentine Company, The, Cleveland, Ohio. Plastic cement, asphalt roll and asphalt shingle roofings. No. 146,025; Aug. 23; v. 289; p. 791.
Arata, Rudolph J., Los Angeles, Calif. Hair-restorer. No. 145,927; Aug. 23; v. 289; p. 787.
Bellingham Chemical Co., Bellingham, Wash. Medicinal preparation. No. 145,928; Aug. 23; v. 289; p. 787.
Berry, Dr. C. H., Chemical Co., Chicago, Ill. Face cream or ointment. No. 145,929; Aug. 23; v. 289; p. 787.
Biolecx, Victoria A., Colorado Springs, Colo. Medicine for deafness. No. 145,930; Aug. 23; v. 289; p. 787.
Boericke & Runyon Co., San Francisco and Oakland, Calif. Home medicines for diseases of the kidneys and bladder. No. 145,931; Aug. 23; v. 289; p. 787.
Bono Products Corporation, New York, N. Y. Insecticide, disinfectant, and deodorizer. No. 145,932; Aug. 23; v. 289; p. 787.
Boston Confectionery Company, Cambridge, Mass. Chocolates. No. 145,933; Aug. 23; v. 289; p. 787.
Brown, Arthur S., Mfg. Co., Tilton, N. H. Transmission-belts made of fabric. No. 146,026; Aug. 23; v. 289; p. 791.
Burnham, Alfred A., Boston, Mass. Externally-applied compound for the remedy of headaches. No. 145,934; Aug. 23; v. 289; p. 787.
Cadmus Products Company, Bayonne, N. J. Oleomargarin, nut-butters, lard, edible oils, and fats, &c. No. 145,935; Aug. 23; v. 289; p. 787.
Cary Maple Sugar Company, St. Johnsbury, Vt. Cakes of maple-sugar, cans of soft-grain maple-sugar, and pure sap syrup. No. 146,027; Aug. 23; v. 289; p. 791.
Chemical Utilities Company, The, Cincinnati, Ohio. Detergent. No. 145,936; Aug. 23; v. 289; p. 787.
Christmas Club (a corporation), New York, N. Y. Printed books, pamphlets, posters, car and advertising cards, circulars. No. 146,028; Aug. 23; v. 289; p. 791.
Cole, John N., San Francisco, Calif. Dentifrice. No. 145,939; Aug. 23; v. 289; p. 787.
Collier, P. F., & Son Company, New York, N. Y. Series of books. Nos. 146,029–30; Aug. 23; v. 289; p. 791.
Cornwell, G. G., & Son, Washington, D. C. Candies. No. 145,940; Aug. 23; v. 289; p. 787.
Curtiss Candy Co., Chicago, Ill. Candy. Nos. 145,937–8; Aug. 23; v. 289; p. 787.
Cur-Zon Company, The, Los Angeles, Calif. Medicinal preparation. No. 145,942; Aug. 23; v. 289; p. 787.
Cyco Medicine Co., The, Chicago, Ill. General medicinal tonic. No. 145,941; Aug. 23; v. 289; p. 787.
De Back, John A., San Francisco, Calif. Fresh pears. No. 145,943; Aug. 23; v. 289; p. 787.
De-Lite Manufacturing Company, Boston, Mass. Auto-polish. No. 145,944; Aug. 23; v. 289; p. 787.
Dewitt, E. C., Co. Inc., Chicago, Ill. Preparation for treatment of bruises, scalds, &c. No. 145,945; Aug. 23; v. 289; p. 787.
Doherty, Aloysius J., Chicago, Ill. Medicinal preparation. No. 145,946; Aug. 23; v. 289; p. 787.
Dollfus Mieg & Cie., Societe Anonyme, Mulhouse, France. Ribbons, laces, tulles, and woven fabrics in the piece. Nos. 145,947–8; Aug. 23; v. 289; p. 787.
Duden, Alice G. H., Indianapolis, Ind. Antiseptic mouth-washes. No. 145,949; Aug. 23; v. 289; p. 787.
Eagle Roller Mill Co., New Ulm, Minn. Wheat-flour. No. 145,969; Aug. 23; v. 289; p. 788.
Embee Company, The, New York, N. Y. Toilet preparations. No. 145,950; Aug. 23; v. 289; p. 787.
Ensign, Jeanette M., Chicago, Ill. Liquid polish or dressing for furniture, floors, and automobiles. No. 145,951; Aug. 23; v. 289; p. 787.
Eye Brand Confectionery, Inc., Brooklyn, N. Y. Candies—viz., square suckers. No. 146,031; Aug. 23; v. 289; p. 791.
Frazier, Fannie, Chicago, Ill. Medicine used as a uterine sedative. No. 145,952; Aug. 23; v. 289; p. 787.
Gaebler, Adolph N., St. Louis, Mo. Toilet and medicinal preparations and chemical preparations. No. 145,953; Aug. 23; v. 289; p. 787.
Gibson Mfg. Co., Concord, N. C. Cotton piece goods. No. 146,032; Aug. 23; v. 289; p. 792.
Glandex Company, Inc., The, New York, N. Y. Laxative tablet. No. 145,954; Aug. 23; v. 289; p. 788.
Goldstein, Max, Los Angeles, Calif. Pomades for the hair. No. 145,955; Aug. 23; v. 289; p. 788.
Goodyear Tire & Rubber Company, Akron, Ohio. Vehicle-tires and treads therefor. No. 146,033; Aug. 23; v. 289; p. 792.

Great Falls Dairy Products Company, Great Falls, Mont. Dairy products. No. 145,956; Aug. 23; v. 289; p. 788.
Great Western Milling Company, Los Angeles, Calif. Wheat, &c., flour, cornmeal, health-bran. No. 145,957; Aug. 23; v. 289; p. 788.
Griffith, J. S., Chattanooga, Tenn. Poultry compound for cholera, roup, and sore head. No. 145,958; Aug. 23; v. 289; p. 788.
Hammer & Co., San Francisco, Calif. Canned sardines, salad and olive oils, canned and dried fruits. No. 145,959; Aug. 23; v. 289; p. 788.
Harper, Albert A., St. Louis, Mo. Compound solution for the removal of carbon in automobiles using gasolene and in gasolene-engines, also for the consumption of monoxid gas. No. 145,960; Aug. 23; v. 289; p. 788.
Harris, George, Calgary, Alberta, Canada. Medicinal preparations made from herbs. No. 145,961; Aug. 23; v. 289; p. 788.
Hess, E. E., Company, The, Brook, Ind. Witch-hazel cream. No. 145,962; Aug. 23; v. 289; p. 788.
Himmel, M. L., & Son, Baltimore, Md. Sectional garment-cabinet. No. 146,034; Aug. 23; v. 289; p. 792.
Himmel, M. L., & Son, Baltimore, Md. Revolving-rack wardrobes. No. 146,035; Aug. 23; v. 289; p. 792.
Himmel, M. L., & Son, Baltimore, Md. Certain store furniture, &c. No. 146,036; Aug. 23; v. 289; p. 792.
Himmel, M. L., & Son, Baltimore, Md. Revolving-rack wardrobes. No. 146,037; Aug. 23; v. 289; p. 792.
Hindu Chemical Co., Houston, Tex. Preparation for the local treatment of piles. No. 145,963; Aug. 23; v. 289; p. 788.
Hinrichs, George F., Incorporated, New York, N. Y. Eggs, butter, and poultry. No. 145,964; Aug. 23; v. 289; p. 788
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 145,965; Aug. 23; v. 289; p. 788.
Holliday, Austin J., Washington, D. C. Medical preparation for the treatment of colds, influensa, &c. No. 145,966; Aug. 23; v. 289; p. 788.
Horton Manufacturing Company, The, Bristol, Conn. Fishing-rods. No. 146,038; Aug. 23; v. 289; p. 792.
Husband, Catharine H., Philadelphia, Pa. Bottled magnesia. No. 145,967; Aug. 23; v. 289; p. 788.
Interstate Shade Cloth Co., Hoboken, N. J. Hand-painted shade-cloth. No. 146,039; Aug. 23; v. 289; p. 792.
Jackson, Edwin A., & Bro., Incorporated, New York, N. Y. Chemical composition for producing colored fire. No. 145,968; Aug. 23; v. 289; p. 788.
Jones, John B., Atlantic City, N. J. Preparation for application to molds to facilitate separation of the mold and cast. No. 145,970; Aug. 23; v. 289; p. 788.
Kahn, Samuel B., Chicago, Ill. Cuff buttons and links. No. 145,971; Aug. 23; v. 289; p. 788.
Kahn Tailoring Company, Indianapolis, Ind. Men's clothes. No. 146,040; Aug. 23; v. 289; p. 793.
Kappus, John M., Cleveland, Ohio. Laxative tablets. No. 145,972; Aug. 23; v. 289; p. 788.
King & Williams, Delphos, Ohio. Preparation for certain named purposes. No. 146,041; Aug. 23; v. 289; p. 793.
Kori, John B., Jacksonville, Fla. Hair-tonic. No. 145,973; Aug. 23; v. 289; p. 788.
Lawson Manufacturing Company, Pittsburgh, Pa. Gas water-heaters and heating-stoves. No. 146,042; Aug. 23; v. 289; p. 793.
Leggiere, Joseph, Mount Vernon, N. Y. Hair-tonic. No. 145,974; Aug. 23; v. 289; p. 788.
Lenitone Laboratories Company, The, Cleveland, Ohio. Foods for infants, invalids, and convalescents. No. 145,975; Aug. 23; v. 289; p. 788.
Liberty Products Company, Inc., New York, N. Y. Remedy for headache, colds, and rheumatism. Nos. 145,976–7; Aug. 23; v. 289; p. 788.
Lipman, Jacob G., New Brunswick, N. J. Fungicides, insecticides, and weed-destroyers. No. 145,978; Aug. 23; v. 289; p. 788.
Los Angeles Pressed Brick Co., Los Angeles, Calif. Pressed clay products. No. 146,043; Aug. 23; v. 289; p. 793.
Madison Chemical Company, Inc., New York, N. Y. Pharmaceutical preparation. No. 146,044; Aug. 23; v. 289, p. 793.
Mallon, Michael T., Nashville, Tenn. Automobile-body, furniture, and piano polishing material. No. 145,980; Aug. 23; v. 289; p. 788.
Marshall Field & Company, Chicago, Ill. Snap-fasteners. No. 146,045; Aug. 23; v. 289; p. 793.
Marshall, William T., Marion, Ind. Preparation for dandruff, eczema, &c. No. 145,994; Aug. 23; v. 289; p. 789.
Martinez, Francisco T., Juana Diaz, Porto Rico. Cream to be applied to the skin for removing freckles and spots. No. 145,981; Aug. 23; v. 289; p. 788.
Mauro, Joseph, Rochester, N. Y. Liquid preparation for smoothing and dressing the hair and also beneficial as a scalp-tonic. No. 145,982; Aug. 23; v. 289; p. 788.

Mugge, Julius E., San Antonio, Tex. Cow feed. No. 145,983; Aug. 23; v. 289; p. 788.
McArthur, Harold M., & Co. Limited, Liverpool, England. Tanning materials produced from basis derived from coal-tar. No. 145,979; Aug. 23; v. 289; p. 788.
Na-Hom Laboratory, Poughkeepsie, N. Y. Medicinal preparation. No. 145,984; Aug. 23; v. 289; p. 788.
National Aniline & Chemical Company, Incorporated, New York, N. Y. Dyestuffs, intermediates, and certified food colors. No. 145,985; Aug. 23; v. 289; p. 789.
Noonan, T., & Sons Company, Boston, Mass. Hair-dressing preparations. No. 145,986; Aug. 23; v. 289; p. 789.
Noonan, T., & Sons Company, Boston, Mass. Hair-tonic. No. 146,046; Aug. 23; v. 289; p. 793.
Nott, W. S., Company, Minneapolis, Minn. Rubber belting and hose. Nos. 146,047–8; Aug. 23; v. 289; p. 794.
Nucoa Butter Company, New York, N. Y. Ice-creams and frozen desserts. No. 145,987; Aug. 23; v. 289; p. 789.
Nulomoline Company, The, New York, N. Y. Syrups and molasses, glucose, honey, &c. No. 145,988; Aug. 23; v. 289; p. 789.
"P A C" Laboratories, Sioux City, Iowa. Medicinal preparation. No. 145,989; Aug. 23; v. 289; p. 789.
Parfumerie Lournay, Inc., New York, N. Y. Toilet preparation—namely, face-powder. No. 145,990; Aug. 23; v. 289; p. 789.
Pepin, Camille, Paris, France Pharmaceutical preparation for relieving throat affections. No. 145,991; Aug. 23; v. 289; p. 789.
Piedmont Mills, Inc., Lynchburg, Va. Wheat-flour. No. 145,993; Aug. 23; v. 289; p. 789.
Philbern Thermometer Co., New York, N. Y. Thermometers. No. 145,992; Aug. 23; v. 289; p. 789.
Price, William B., Poughkeepsie, N. Y. Waterproofing composition for fabrics of all kinds. No. 145,995; Aug. 23; v. 289; p. 789.
Quinlan, Kathleen M., New York, N. Y. Beauty-cream. No. 145,996; Aug. 23; v. 289; p. 789.
Quinlan, Kathleen M., New York, N. Y. Toilet preparations. No. 145,997; Aug. 23; v. 289; p. 789.
Rico Milk Products Company, East Troy, Wis. Condensed, evaporated, and powdered milks. No. 146,049; Aug. 23; v. 289; p. 794.
Russell Mfg. Co., Middletown, Conn. Automobile-brake linings. No. 146,050; Aug. 23; v. 289; p. 794.
Schaub & Howett, Lancaster, Pa. Chemical preparation. No. 146,001; Aug. 23; v. 289; p. 789.
Schondau, Dr. Theodore, El Paso, Tex. Foot-powder. No. 145,998; Aug. 23; v. 289; p. 789.
Scott, Cloma H., Omaha, Nebr. Preparation for scalp diseases. No. 145,999; Aug. 23; v. 289; p. 789.
Seamans & Cobb Company, Augusta, Me., and Boston, Mass. Piece goods for wearing apparel, upholstery, &c. No. 145,600; Aug. 23; v. 289; p. 789.
Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical preparations. Nos. 146,003–4; Aug. 23; v. 289; p. 789.
Sords, Mary A., Cleveland, Ohio. Preparation for the treatment of diseases of the throat and lungs. No. 146,005; Aug. 23; v. 289; p. 789.
Sté. An. pour l'Exploitation de Jouets S. A. J., Paris, France. Toys comprising construction toys, toy railroads and their accessories, &c. No. 146,006; Aug. 23; v. 289; p. 789.
Stoehrer & Pratt Dodgem Corporation, Lawrence, Mass. Hand-operated toy cars for indoor or outdoor use. No. 146,007; Aug. 23; v. 289; p. 789.
Sullivan, James F., Camden, N. J. Face-powder. No. 146,008; Aug. 23; v. 289; p. 789.
Sullivan, James F., Camden, N. J. Tooth-paste. No. 146,009; Aug. 23; v. 289; p. 789.
Tempest Waterproofing Corporation, New York, N. Y. Certain textile fabrics. No. 146,051; Aug. 23; v. 289; p. 794.
Thrift Stores, Inc., Springfield, Mass. Salted nuts, nuts in their natural state, and candy. No. 146,010; Aug. 23; v. 289; p. 789.
Timken-Detroit Axle Company, The, Detroit, Mich. Axles for motor-vehicles. No. 146,052; Aug. 23; v. 289; p. 794.
Triantafilakos, Anastasios, New York, N. Y. Coffee. No. 146,011; Aug. 23; v. 289; p. 789.
Turpsene M'f'g. Co., Philadelphia, Pa. Paint-reducer. No. 146,053; Aug. 23; v. 289; p. 794.
United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Golf-balls. No. 146,012; Aug. 23; v. 289; p. 789.
Van Antwerp's Drug Corporation Inc., Mobile, Ala. Face-powder. No. 146,054; Aug. 23; v. 289; p. 795.
Van Vleet-Mansfield Drug Co., Memphis, Tenn. Antiseptic. No. 146,014; Aug. 23; v. 289; p. 789.
Vivaudou, V., Inc., New York, N. Y. Toilet preparations. No. 146,013; Aug. 23; v. 289; p. 789.
Vino Medical Co. Inc., New York, N. Y. Medicine for the treatment of malaria. No. 146,055; Aug. 23; v. 289; p. 795.
Voegele & Dinning Co. Inc., Lynchburg, Va. Candy. No. 146,056; Aug. 23; v. 289; p. 795.
Von Bremen, Asche & Co., New York, N. Y. Sardines and olive-oil. No. 146,015; Aug. 23; v. 289; p. 789.
Waples-Platter Grocer Company, Denison, Tex. Coffee. No. 146,016; Aug. 23; v. 289; p. 789.
Western Martha Washington Candies Company, Chicago, Ill. Candies. Nos. 146,057–8; Aug. 23; v. 289; p. 795.
White, A. J., Limited, New York, N. Y. Laxative medicines. No. 146,017; Aug. 23; v. 289; p. 789.
Wildes, Gerard M., New York, N. Y. Perfumes. No. 146,019; Aug. 23; v. 289; p. 790.
Williams, C. S., Ellisville, Miss. Preparation for use in the treatment of pyorrhea. No. 146,020; Aug. 23; v. 289; p. 790.
Willson, Everard L., Milton, Mass. Washing compound for clothes, dishes, &c. No. 146,059; Aug. 23; v. 289; p. 795.
Windsor Print Works, North Adams, Mass., and New York, N. Y., assignor to Consolidated Textile Corporation, New York, N. Y. Plain, white, dyed, or printed cotton piece goods. No. 146,021; Aug. 23; v. 289; p. 790.
Winthrop Chemical Company, Inc., New York, N. Y. Antigonorrheic and astringent medical substances. No. 146,022; Aug. 23; v. 289; p. 790.
Yamaguchi, Hidetaro, Arlington, N. J. Candy and cake. No. 146,018; Aug. 23; v. 289; p. 790.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allen Auto Specialty Co., The, New York, N. Y. "Allen Tire Case." (For Cases for Automobile-Tires.) Nos. 23,172–5; Aug. 23; v. 289; p. 796.
American Grocers Society, Inc., Newark, N. J. "Khels." (For Liver-Pills.) No. 23,176; Aug. 23; v. 289; p. 796.
Atlanta Barbers' Supply Co., Atlanta, Ga. "Abesco Cocoanut Oil." (For Cocoanut-Oil Shampoo.) No. 23,177; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Liquid Nail Polish." (For Enamel for the Nails.) No. 23,178; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Face Cream." (For Preparations for Beautifying the Skin.) No. 23,179; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Bandoline." (For Preparations for Keeping the Hair in Wave or Curl.) No. 23,180; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Eye Lash and Brow Grower." (For a Preparation for Stimulating the Growth of the Eye Lashes and Brows.) No. 23,181; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Pure Tar Soap Shampoo." (For Preparations for Cleaning the Hair.) No. 23,182; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Eyebrow Pencils." (For Preparations for Coloring the Eyebrows.) No. 23,183; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Bath Salts." (For Preparations for Softening Bath-Water.) No. 23,184; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "La Belle Coquette." (For Pomade.) No. 23,185; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Gardenia Soap." (For Toilet Soap.) No. 23,186; Aug. 23; v. 289; p. 796.
Ayer, Harriet Hubbard, New York, N. Y. "Depilatory." (For a Preparation for Removing Hair.) No. 23,187; Aug. 23; v. 289; p. 796.
B. & T. Engineering and Sales Co., New York, N. Y. "16." (For Cards for a Game.) No. 23,189; Aug. 23; v. 289; p. 796.
Baltimore Butterine Co., Baltimore, Md. "Maryland Pride." (For Oleomargarin.) No. 23,188; Aug. 23; v. 289; p. 796.
Boyshform Brassiere Co., The, New York, N. Y. "Boyshform Brassiere." (For Cartons or Boxes Containing Brassières.) No. 23,190; Aug. 23; v. 289; p. 796.
Brach, E. J., and Sons, Chicago, Ill. "Brach's Chocolates Assorted." (For Boxes and Cartons Containing Candy.) No. 23,191; Aug. 23; v. 289; p. 796.
Brach, E. J., and Sons, Chicago, Ill. "Brach's Chocolate Covered Cherries in Cream." (For Candy.) No. 23,192; Aug. 23; v. 289; p. 796.
C. & D. Manufacturing Corporation, Detroit, Mich. "Cadillac." (For Electric Washing-Machines and Wringers.) No. 23,193; Aug. 23; v. 289; p. 796.
Columbia Graphophone Company, New York, N. Y. "Columbia Exclusive Artist." (For Sound-Records of the Columbia Graphophone Company. Nos. 23,194–5; Aug. 23; v. 289; p. 796.
Danna, Frank, Baton Rouge, La. "Red Stick Coffee." (For Coffee.) No. 23,196; Aug. 23; v. 289; p. 796.
Fowler, Carl A., Kansas City, Mo. "No-Zo." (For Containers for an Antiseptic for Nose and Mouth.) No. 23,197; Aug. 23; v. 289; p. 796.
Gessner, Thomas F., Hammond, La. "Quality First Louisiane Brand Klondykes." (For Strawberries.) No. 23,198; Aug. 23; v. 289; p. 796.
Gillen & Boney, Lincoln, Nebr. "Gillen's Malted Milk Chocolate and Toasted Almonds." (For Candy.) No. 23,199; Aug. 23; v. 289; p. 796.

Haydon Company. (See Menasha Printing and Carton Company, assignors.)
Heller, B., & Co. Chicago, Ill. "$1 000.00 Guaranteed Bed Bug Killer." (For Cans Containing Bedbug-Killer.) No. 23,200; Aug. 23; v. 289; p. 796.
Heller, B., & Co., Chicago, Ill. "Konservirungs-Salt." (For a Preparation for Curing Meat, Fish, Fowl, and Game.) No. 23,201; Aug. 23; v. 289; p. 796.
Heller, B., & Co., Chicago, Ill. "Heller's Fancy Pastry Baking Powder." (For Receptacles Containing Heller's Fancy Pastry Baking-Powder.) No. 23,202; Aug. 23; v. 289; p. 796.
Heller, B., & Co., Chicago, Ill. "Zansibar-Brand Cattle and Sheep Dip." (For a Preparation for Dipping Cattle and Sheep.) No. 23,203; Aug. 23; v. 289; p. 796.
Heller, B., & Co., Chicago, Ill. "White Swan Washing Powder." (For a Preparation for Scrubbing and Cleaning Purposes.) No. 23,204; Aug. 23; v. 289; p. 796.
Heller, B., & Co., Chicago, Ill. "Candy Maker's Friend." (For a Flavoring Compound.) No. 23,205; Aug. 23; v. 289; p. 796.
Hopper, B., Kalamazoo, Mich. "Flora Linen." (For Stationery, Tablets, Pound-Paper, and Envelops.) No. 23,206; Aug. 23; v. 289; p. 796.
International Consolidated Chemical Corporation, Inc., New York, N. Y. "Santonex Compacted Face Powder." (For Receptacles and Packages Containing Compacted Face-Powder.) No. 23,208; Aug. 23; v. 289; p. 796.
International Consolidated Chemical Corporation, Inc., New York, N. Y. "Savon de Toilette Tokalon." (For Receptacles and Packages Containing Toilet Soap.) No. 23,209; Aug. 23; v. 289; p. 797.
Interstate Products Co., Chicago, Ill. "Temptation Wine Grape Juice." (For Containers for Grape-Juice.) No. 23,207; Aug. 23; v. 289; p. 796.
King & Company, New York, N. Y. "Our-Own." (For Socks.) No. 23,210; Aug. 23; v. 289; p. 797.
Krank, Alfred J., St. Paul, Minn. "Lem-Mud." (For Jars Containing Facial Treatment.) No. 23,211; Aug. 23; v. 289; p. 797.
Krank, Alfred J., St. Paul, Minn. "Lemon Shampoo." (For Cartons Containing Bottles of Shampoo.) No. 23,212; Aug. 23; v. 289; p. 797.
Kreem-Eze Company, The, Roseville, Calif. "Lewis' Shave-Eeee Creme." (For Shaving-Cream.) No. 23,213; Aug. 23; v. 289; p. 797.
Kresge, S. S., Co., Detroit, Mich. "Two In One." (For Hair-Nets.) No. 23,214; Aug. 23; v. 289; p. 797.
Landenberger, J. William. (See Williams, Harney I., assignor.)
Lantz Bros. Baking Co., St. Louis, Mo. "Grandma's Cake." (For Cake.) No. 23,215; Aug. 23; v. 289; p. 797.
McQuay-Norris Mfg. Co., St. Louis, Mo. "McQuay-Norris Jiffy Grip Piston Rings." (For Piston-Rings.) No. 23,216; Aug. 23; v. 289; p. 797.
Melchior Supply Co., Chicago, Ill. "Krownit." (For Hair-Tonics.) No. 23,217; Aug. 23; v. 289; p. 797.
Milwaukee Malting & Grain Co., Milwaukee, Wis. "Mil-Malt." (For Malt Syrup.) No. 23,218; Aug. 23; v. 289; p. 797.
Milwaukee Paper Box Company, Milwaukee, Wis. "Greysolon." (For Boxes Containing Hard-Center Chocolates.) No. 23,219; Aug. 23; v. 289; p. 797.
Milwaukee Paper Box Company, Milwaukee, Wis. "Fruits and Nuts." (For Boxes Containing Chocolate-Covered Fruits and Nuts.) No. 23,220; Aug. 23; v. 289; p. 797.
Menasha Printing and Carton Company, Menasha, Wis. "Grandma's Bread." (For Wax-Paper Bread-Wrappers.) No. 23,221; Aug. 23; v. 289; p. 797.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Haydon Company, Brainerd, Minn. "Haydon's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,222; Aug. 23; v. 289; p. 797.
Menasha Printing and Carton Company, Menasha, Wis., assignor to Peoples Fuel & Supply Company, Chicago, Ill. "People's Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,223; Aug. 23; v. 289; p. 797.
Menasha Printing and Carton Company, Menasha, Wis., assignor to George K. Brown Co., Chattanooga, Tenn. "The Cream of the Town Geo. K. Brown Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,224; Aug. 23; v. 289; p. 797.
National Carbon Company, Inc., New York, N. Y. "Eveready Marine Lighting and Ignition Battery." (For Electric Batteries.) No. 23,225; Aug. 23; v. 289; p. 797.
National Carbon Company, Inc., New York, N. Y. "Eveready Bell Ringer." (For Electric Batteries.) No. 23,226; Aug. 23; v. 289; p. 797.
National Carbon Company, Inc., New York, N. Y. "Eveready Motor Boat Battery." (For Electric Batteries.) No. 23,227; Aug. 23; v. 289; p. 797.
National Carbon Company, Inc., New York, N. Y. "Columbia Bell Ringer." (For Electric Batteries.) No. 23,228; Aug. 23; v. 289; p. 797.
National Licorice Company, Brooklyn, N. Y. "Y & S." (For Stick-Licorice, Licorice Lozenges, and Licorice Wafers.) No. 23,229; Aug. 23; v. 289; p. 797.
Neilsen's, Charles J., Sons, Brooklyn, N. Y. "La Flor De C. J. N." (For Cigars.) No. 23,232; Aug. 23; v. 289; p. 797.
Newbro Manufacturing Company, Atlanta, Ga. "Queen." (For Bottles and Packages of Hair-Dressing.) No. 23,230; Aug. 23; v. 289; p. 797.
New York Canners, Inc., Rochester, N. Y. "Osborn's Apple Sauce." (For Apple Sauce.) No. 23,231; Aug. 23; v. 289; p. 797.
Paris Cigar Company, The, Paris, Mo. "Queen of Paris." (For Cigars.) No. 23,233; Aug. 23; v. 289; p. 797.
Premier Malt Products Co. of Ohio, Inc., Steubenville, Ohio. "Premex." (For Malt Syrup.) No. 23,234; Aug. 23; v. 289; p. 797.
Red Raven Corporation, The, Red Raven, Pa. "Billy Baxter." (For Bottles or Packages Containing Ginger-Ale.) No. 23,235; Aug. 23; v. 289; p. 797.
Rosin, Fred, Philadelphia, Pa. "Oriental Liniment." (For a Liniment.) No. 23,236; Aug. 23; v. 289; p. 797.
Saniwax Paper Co., Kalamazoo, Mich. "Golden Rod." (For Bread.) No. 23,237; Aug. 23; v. 289; p. 797.
Schwab, Leopold B., New York, N. Y. "Concrete." (For Hosiery.) (No. 23,238; Aug. 23; v. 289; p. 797.
Shanklin Manufacturing Company, Springfield, Mass. "A Lamp for Miners Invented By a Miner." (For Cartons for Miner's Lamp.) No. 23,239; Aug. 23; v. 289; p. 797.
Smile Company, The, Topeka, Kans. "Smile." (For Roasted Coffee.) No. 23,240; Aug. 23; v. 289; p. 797.
Tri-State Milk Products Co., Galena, Ill. "Ace." (For Evaporated Milk.) No. 23,241; Aug. 23; v. 289; p. 797.
True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery.) No. 23,242; Aug. 23; v. 289; p. 797.
United States Foil Company, Louisville, Ky. "Gold Seal." (For Cake.) No. 23,245; Aug. 23; v. 289; p. 797.
United States Foil Company, Louisville, Ky. "Old Kentucky." (For Jelly-Roll.) No. 23,246; Aug. 23; v. 289; p. 797.
United States Rubber Company, New York, N. Y. "Rainbow." (For Cartons Containing Jar-Rubbers.) No. 23,243; Aug. 23; v. 289; p. 797.
United States Rubber Company, New York, N. Y. "Beaver." (For Cartons Containing Jar-Rubbers.) No. 23,244; Aug. 23; v. 289; p. 797.
United Stores Supply Co., Minneapolis, Minn. "Lavo-Kleen." (For Powder for Cleaning Closet-Bowls.) No. 23,247; Aug. 23; v. 289; p. 797.
Val. Blatz Jr. Candy Co., Milwaukee, Wis. "Oh! Please." (For Candy.) No. 23,248; Aug. 23; v. 289; p. 797.
Verbaag, Jacob C., St. Paul, Minn. "Hook 'Em Cow." (For Cigars.) No. 23,249; Aug. 23; v. 289; p. 797.
Ward Baking Company, New York, N. Y. "Ward Baking Co.—Quality Cakes—Made Clean—100% Pure." (For Cakes.) No. 23,250; Aug. 23; v. 289; p. 797.
Williams, Harney I., New York, N. Y., assignor to J. William Landenberger, Philadelphia, Pa. "Sports." (For Hosiery.) No 23,251; Aug. 23; v. 289; p. 797.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Acme Packing Co., Chicago, Ill. "Virginies—a Treat in Meat." (For Advertising Purposes for Canned Meat Patties.) No. 5,693; Aug. 23; v. 289; p. 798.
American Lead Pencil Company, New York, N. Y. "Blue Band Velvet Pencils." (For Advertising Lead-Pencils.) No. 5,694; Aug. 23; v. 289; p. 798.
Brunswick, Balke, Collender Co., The, Chicago, Ill. "Famous Achievements." (For Advertising Purposes for Tires.) No. 5,695; Aug. 23; v. 289; p. 798.
Clarke, E., Co., The, Baltimore, Md. "Clarke's Virgin Peanut Oil." (For Advertising Purposes for Peanut-Oil.) No. 5,696; Aug. 23; v. 289; p. 798.
Cream of Wheat Co., Minneapolis, Minn. "Uncle Tom's Cabin." (For Advertising Purposes for Wheat Breakfast Food.) No. 5,697; Aug. 23; v. 289; p. 798.
De Laval Separator Co., The, New York, N. Y. "De Laval Cream Separators." (For Advertising Purposes for Cream-Separators.) No. 5,698; Aug. 23; v. 289; p. 798.
Fairbank, N. K., Company, The, Chicago, Ill. "Covo." (For Advertising Purposes for Vegetable Oils for Salads and for Cooking.) No. 5,699; Aug. 23; v. 289; p. 798.
Fairbank, N. K., Company, The, Chicago, Ill. "Fairy Soap." (For Advertising Purposes for Soap.) No. 5,700; Aug. 23; v. 289; p. 798.
Genesee Pure Food Company, The, Le Roy, N. Y. "The 1921 Neapolitan Jello." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,701; Aug. 23; v. 287; p. 798.

Genesee Pure Food Company, The, Le Roy, N. Y. "The 1921 Strawberry Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) No. 5,702; Aug. 23; v. 289; p. 798.
Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Vinegars, Pints, Quarts, Half-Gallons. Any Salad Dressing will be Better by the Use of These Vinegars." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) No. 5,703; Aug. 23; v. 289; p. 798.
Heinz, H. J., Co., Pittsburgh, Pa. "Heinz Vinegars, Pints, Quarts, Half-Gallons, in Bottles Filled and Sealed in the Heinz Establishment. These fragrant piquant Vinegars." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) No. 5,704; Aug. 23; v. 289; p. 798.
Monarch Bitters Co., Buffalo, N. Y. "Winecup." (For Advertising Purposes for Soft Drinks.) No. 5,705; Aug. 23; v. 289; p. 798.
National Dairy Council, Chicago, Ill. "There are No Substitutes for Dairy Products and Healthy Children." (For Advertising Purposes for Dairy Products.) No. 5,706; Aug. 23; v. 289; p. 798.
Pinkham, Lydia E., Medicine Co., Lynn, Mass. "Lydia E. Pinkham's Vegetable Compound." (For Advertising Purposes for a Vegetable Compound Used for Medicinal Purposes.) No. 5,707; Aug. 23; v. 289; p. 798.
Postum Cereal Co. Inc., Battle Creek, Mich. "Grape-Nuts—Food for Sturdy Health." (For Advertising Purposes for Foods—Grape-Nuts.) No. 5,708; Aug. 23; v. 289; p. 798.
Rinehart, James W., Columbus, Ohio. "Dough Boy." (For Advertising Purposes for Bread.) No. 5,709; Aug. 23; v. 289; p. 798.
Standard Tire Co., The, Willoughby, Ohio. "Tiger-Foot Tires." (For Advertising Purposes for Tires.) No. 5,710; Aug. 23; v. 289; p. 798.
United Fuel & Supply Company, Detroit, Mich. "Hotter Than Sunshine." (For Advertising Purposes for Coal.) No. 5,711; Aug. 23; v. 289; p. 798.
Williams, J. B., Company, The, Glastonbury, Conn. "Jabon de Afeitar de Williams." (For Advertising Purposes for Soap—Stick, Powder, Paste, Cream, and Liquid.) No. 5,712; Aug. 23; v. 289; p. 798.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Acme Die Casting Corp, Brooklyn and New York, N. Y. Non-ferrous castings, such as die-castings. No. 139,927; Aug. 23; v. 289; p. 762.
Allison, Joseph F., Washington, D. C. Cough medicines. No. 147,388; Aug. 23; v. 289; p. 780.
Alvey-Ferguson Company, The, Cincinnati, Ohio. Conveyers and conveying machinery and parts thereof. No. 117,918; Aug. 23; v. 289; p. 752.
American Agricultural Chemical Company, The, New York, N. Y. Fertilizers. No. 142,461; Aug. 23; v. 289; p. 765.
American Drug Company, The, Dayton, Ohio. Medicines used as a tonic, stomachic, diuretic, and laxative in stomach, kidney, and liver ills. No. 145,812; Aug. 23; v. 289; p. 774.
American Purchasing Corporation, Ltd., Toronto, Ontario, Canada, and New York, N. Y. Linen and cotton tablecloths, napkins, cover-pieces, &c. No. 132,376; Aug. 23; v. 289; p. 757.
Ayer, Harriet Hubbard, New York, N. Y. Vanishing cream. No. 146,352; Aug. 23; v. 289; p. 777.
Babbitt Steam Specialty Co., New Bedford, Mass. Sheet-packing. No. 111,984; Aug. 23; v. 289; p. 752.
Balkan Sobranie Cigarettes Limited, London, England. Cigarettes. No. 135,958; Aug. 23; v. 289; p. 759.
Baltzly, Stanley M., Massillon, Ohio. Cold-cream. No. 145,429; Aug. 23; v. 289; p. 772.
Banister, James A., Company, Newark, N. J. Boots and shoes made of leather, rubber, fabric, &c. No. 146,249; Aug. 23; v. 289; p. 776.
Bass, G. H., & Company, Wilton, Me. Moccasins. No. 145,308; Aug. 23; v. 289; p. 772.
Bass, Jlax, New York, N. Y. Dandruff-ointment. No. 146,951; Aug. 23; v. 289; p. 778.
Bayne Manufacturing Company, Bushnell, Ill. Shock-absorbers, shock and rebound absorbers, tire and wheel carrying attachments for automobiles, &c. No. 108,137; Aug. 23; v. 289; p. 751.
Beavan, Joseph W., Syracuse, N. Y. Perfumes, toilet waters, creams, face, talcum, and sachet powders, and rouges. No. 148,117; Aug. 23; v. 289; p. 781.
Beldam, George W., London, England. Rubber sponges. No. 130,786; Aug. 23; v. 289; p. 756.
Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Tables, chairs, and stools used around confectionery-stores, &c. No. 122,963; Aug. 23; v. 289; p. 753.
Bessire & Company, Indianapolis, Ind., and Louisville, Ky. Ice picks and tongs, milk-can carriers, ice crushers and scrapers, &c. No. 122,964; Aug. 23; v. 289; p. 753.
Bischoff, Henry B., Collinsville, Ill. Non-alcoholic, non-cereal, maltless beverages and syrup for making. No. 149,673; Aug. 23; v. 289; p. 785.
Blodgett, G. S., Company Inc., The, Burlington, Vt. Bake-ovens. Nos. 149,097–8; Aug. 23; v. 289; p. 786.
Bodor, Louis, New York, N. Y. Machines for impressing inscription on pencils. No. 145,815; Aug. 23; v. 289; p. 774.
Bradshaw, Edward D., New York, N. Y. Popping corn. No. 148,790; Aug. 23; v. 289; p. 784.
Bretch, Sam, Wholesale Specialties, Oklahoma, Okla. Rubber inner tubes for automobile-tires. No. 148,696; Aug. 23; v. 289; p. 784.
Brohman Company, New York, N. Y. Children's dresses. No. 147,186; Aug. 23; v. 289; p. 779.
Bu-Ti-Mald Petticoat & Pettipants Co., New York, N. Y. Ladies undergarments. No. 142,916; Aug. 23; v. 289; p. 767.
Buffalo Society of Natural Sciences, Buffalo, N. Y. Monthly magazine publication. No. 143,151; Aug. 23; v. 289; p. 767.
Butler-Diestelkamp-Stock Chemical Co., St. Louis, Mo. Salve for boils, bruises, chafings, and irritations, &c. No. 143,082; Aug. 23; v. 289; p. 767.
Carolina Remedies Company, Union, S. C. Veterinary preparations. No. 148,433; Aug. 23; v. 289; p. 783.
Carson, Pirie, Scott & Co., assignor to Carson Pirie Scott & Company, Chicago, Ill. Percale dress goods in the piece. No. 116,739; Aug. 23; v. 289; p. 752.
Carson Pirie Scott & Company. (See Carson, Pirie, Scott & Co., assignor.)
Cassatt, E. B., Company, The, Cleveland, Ohio. Tractors. No. 131,467; Aug. 23; v. 289; p. 757.
Chanovitz, Abraham, New York, N. Y. Men's silk dress-shirts. No. 141,851; Aug. 23; v. 289; p. 764.
Chemical Reduction Co., Boston, Mass. Chemical carbon-remover. No. 146,068; Aug. 23; v. 289; p. 775.
Chesnutt, Cooper & Co., London, England. Bristles. No. 148,125; Aug. 23; v. 289; p. 781.
Chicago Orthopedic Appliance Company, Chicago, Ill. Deformity-braces, extension-shoes, artificial limbs, &c. No. 139,848; Aug. 23; v. 289; p. 761.
Chocolate Truffles Co. Inc., Portland, Oreg. Candy. No. 148,581; Aug. 23; v. 289; p. 783.
Christman Ointment Co., The, Greenville, N. C. Ointment for skin diseases. No. 146,108; Aug. 23; v. 289; p. 775.
Cinderella Heel Corporation, St. Louis, Mo. Metal heels and tread-lifts therefor. No. 144,848; Aug. 23; v. 289; p. 771.
City Mills Company, Columbus, Ga. Self-rising wheat-flour. No. 149,126; Aug. 23; v. 289; p. 784.
Cocciola, Guiseppina, North Revere, Mass. Herb tonic. No. 147,414; Aug. 23; v. 289; p. 780.
Coe-Mortimer Company, The, New York, N. Y. Fertilizers. No. 144,707; Aug. 23; v. 289; p. 771.
Cohen, Morris A., Boston, Mass. Medicinal tablets to relieve headache, neuralgia, migrane, &c. Nos. 144,849–50; Aug. 23; v. 289; p. 771.
Coingum Manufacturing Company, Philadelphia, Pa. Vending-machines. No. 146,875; Aug. 23; v. 289; p. 778.
Cole, H. C., Milling Co., Chester, Ill. Wheat-flour. No. 139,732; Aug. 23; v. 289; p. 761.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Publications issued monthly. No. 148,060; Aug. 23; v. 289; p. 781.
Consolidated Companies, Inc., Plaquemine, Morgan City, St. Martinsville, New Roads, and White Castle, La. Quinin, Epsom salts, castor-oil, cough-syrup, salt, baking-powder, and bluing. No. 145,995; Aug. 23; v. 289; p. 775.
Cook, Harry A., Yakima, Wash. Adhesive cement. No. 142,782; Aug. 23; v. 289; p. 766.
Cooper & Cooper, Inc., New York, N. Y. Chemicals, medicines, &c. No. 129,586; Aug. 23; v. 289; p. 754.
Cooper & Cooper, Inc., New York, N. Y. Pigments, &c. No. 130,580; Aug. 23; v. 289; p. 756.
Cowdrey, Harry C., New York, N. Y. Pamphlets and bound publications, cards, &c. No. 130,582; Aug. 23; v. 289; p. 756.
Cudahy Packing Company, The, Chicago, Ill. Shredded soap. No. 148,794; Aug. 23; v. 289; p. 784.
Daly, John J., Brockton, Mass. Leather shoes. No. 145,324; Aug. 23; v. 289; p. 772.
Darn, E. Z., Laboratories. (See Plasterer, Purl C., assignor.)
De Vilbiss Manufacturing Co., The, Toledo, Ohio. Oils with or without medication for a throat and nose spray. No. 145,884; Aug. 23; v. 289; p. 774.
Denver Rock Drill Manufacturing Company, Denver, Colo. Rock-drills, drill-sharpeners, drill-bits, and parts thereof. No. 146,167; Aug. 23; v. 289; p. 776.
Detroit Twist Drill Company, Detroit, Mich. Twist-drills. No. 147,095; Aug. 23; v. 289; p. 779.
Dispatch Publishing Company, The, Pittsburgh, Pa. Newspaper-section. Nos. 147,713–14; Aug. 23; v. 289; p. 780.
Du Bois Laboratories, New York, N. Y. Urinalysis-cabinets. No. 144,387; Aug. 23; v. 289; p. 769.

Dunn, John, Son, & Co., New York, N. Y. Lubricating oils and greases. No. 141,765; Aug. 23; v. 289; p. 764.
Eaton, Marshall B., Canandaigua, N. Y. Combination gas-intake deflectors and gaskets. No. 143,688; Aug. 23; v. 289; p. 768.
Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather gloves and mittens. No. 146,001; Aug. 23; v. 289; p. 775.
El-Kay Co., Richmond Hill, N. Y. Insect-powders. No. 148,138; Aug. 23; v. 289; p. 781.
Engstrom, John, Jr., Co., Little Valley, N. Y. Razors. No. 146,288; Aug. 23; v. 289; p. 776.
Enos Chemical Company, Chicago, Ill. Rodent-poison. No. 145,773; Aug. 23; v. 289; p. 773.
Ephraimson J., Bradford, England. Animal hair or wool for making wigs and other similar articles. No. 146,114; Aug. 23; v. 289; p. 775.
Everett, Heaney & Company, Inc., New York, N. Y. Cotton, cotton and woolen, woolen and linen, &c., piece goods. No. 134,811; Aug. 23; v. 289; p. 758.
Falls City Buggy Top Company, Louisville, Ky. Automobile tops, radiator-covers, curtains, and cushions. No. 146,701; Aug. 23; v. 289; p. 778.
Finch, Nelson W., Chicago, Ill. Tire-fillers. No. 145,889; Aug. 23; v. 289; p. 774.
Fisher, George, New York, N. Y. Polish for furniture. No. 138,714; Aug. 23; v. 289; p. 760.
Fisheries Products Co. Inc., The, New York, N. Y. Fertilizers. No. 142,615; Aug. 23; v. 289; p. 766.
Flexlume Sign Company, Buffalo, N. Y. Raised glass letters and characters and devices generally for illuminating signs. No. 146,700; Aug. 23; v. 289; p. 778.
Flood, Daniel A., Okmulgee, Okla. Ointment having medicinal properties, especially useful for cuts, bruises, &c. No. 142,211; Aug. 23; v. 289; p. 764.
Foamite Firefoam Company, New York, N. Y. Hand-operated, portable and stationary fire-extinguishers. No. 146,116; Aug. 23; v. 289; p. 775.
Gekas, Costas, Cleveland, Ohio. Medicine used in the treatment of gonorrhea. No. 145,016; Aug. 23; v. 289; p. 771.
Gibbs, William M., Duluth, Minn. Shoe-polish. No. 149,079; Aug. 23; v. 289; p. 784.
Givan, G. F., Constantine, Ky. Poultry food. No. 143,595; Aug. 23; v. 289; p. 767.
Glidden Company, The, Cleveland, Ohio. Disinfectants. No. 144,568; Aug. 23; v. 289; p. 770.
Globe Drug Company, Florence, S. C. Medicines for treatment of indigestion, dyspepsia, rheumatism, neuralgia, &c. No. 147,344; Aug. 23; v. 289; p. 779.
Goldstein, John, New York, N. Y. Adhesive cement. No. 142,437; Aug. 23; v. 289; p. 765.
Goode & Dunkle, Covington, Ky. Wheat-flour. No. 144,138; Aug. 23; v. 289; p. 769.
Goodrich, B. F., Company, The, New York, N. Y. Belting made of fabric combined with rubber. No. 128,498; Aug. 23; v. 289; p. 754.
Goodrich, B. F., Company, The, New York, N. Y. Hose, dredging-sleeves, and machinery packing. No. 149,897; Aug. 23; v. 289; p. 786.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Elastic vehicle-tires. No. 101,064; Aug. 23; v. 289; p. 751.
Gravier, Alphonse, Neuilly-sur-Seine, France. Perfumes, toilet waters, lotions, brilliantines, &c. Nos. 147,345–6; Aug. 23; v. 289; pp. 779–80.
Green, Dr. L. O., Chicago, Ill. Ointment in salve form possessing antiseptic and healing qualities. No. 139,035; Aug. 23; v. 289; p. 760.
Green, Dr. O. W. and Dr. L. O., Chicago, Ill. Local anesthetic for use in painless extraction of teeth and in general surgery. No. 139,031; Aug. 23; v. 289; p. 760.
Green, William T., Summit, N. J. Beauty-cream. No. 148,064; Aug. 23; v. 289; p. 781.
Gutradt, Joseph, Company, San Francisco, Calif. Soap. No. 147,190; Aug. 23; v. 289; p. 779.
Hadfields Limited, Sheffield, England. Unwrought and partly-wrought steel, steel castings and forgings, &c. No. 133,775; Aug. 23; v. 289; p. 758.
Hardright Company, The, Belleville, N. J. Lather-brushes. No. 140,886; Aug. 23; v. 289; p. 762.
Hardright Company, The, Belleville, N. J. Lather-brushes. Nos. 140,888–9; Aug. 23; v. 289; p. 762.
Hardright Company, The, Belleville, N. J. Lather-brushes. No. 140,891; Aug. 23; v. 289; p. 763.
Harem Candy Co., New York, N. Y. Candy in boxes. No. 148,329; Aug. 23; v. 289; p. 782.
Hart, Florida J., Fort Wayne, Ind. Preparation for treatment of diseases peculiar to females. No. 142,075; Aug. 23; v. 289; p. 764.
Heirloom Aluminum Corporation. (See Metal and Alloy Specialties Company.)
Hemmerdinger, L., & Co., New York, N. Y. Mending-cement. No. 140,943; Aug. 23; v. 289; p. 763.
Herink, Charles A., New York, N. Y. Coffee. No. 149,132; Aug. 23; v. 289; p. 785.
Hezel Milling Company, East St. Louis, Ill. Self-rising flour No. 143,167; Aug. 23; v. 289; p. 767.
Hibbard, Spencer, Bartlett & Co., Chicago, Ill. Cream-separators, shears, trowels, tinners' shears, clothes-washers, &c. No. 145,686; Aug. 23; v. 289; p. 772.
Himmel, M. L., & Son, Baltimore, Md. Show-cases. No. 138,642; Aug. 23; v. 289; p. 760.
Huyck, F. C., & Sons, Albany, N. Y. Outdoor rugs, bed-blankets, camp and baby blankets, couch and bed covers, &c. No. 148,605; Aug. 23; v. 289; p. 767.
Hydraulic Steel Company, The, Cleveland, Ohio. Rolled steel sheets and rolled steel in various forms and finishes. No. 135,925; Aug. 23; v. 289; p. 759.
Ideal Linen Mesh Co., Poughkeepsie, N. Y. Sweaters. No. 145,897; Aug. 23; v. 289; p. 774.
Inderrieden Canning Co., Chicago, Ill. Canned vegetables. No. 148,146; Aug. 23; v. 289; p. 787.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Pneumatic motor-hoists. No. 146,769; Aug. 23; v. 289; p. 778.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Steam engines and turbines, turbo-compressors, blowers, &c. No. 146,770; Aug. 23; v. 289; p. 778.
Jacobs, Jacob M., Paterson, N. J. Liniment for rheumatism, colds, coughs, bruises, &c. No. 146,120; Aug. 23; v. 289; p. 776.
Jaeger, Edmond, Paris, France. Indicators of revolution, speed-indicators, altitude-registering anemometers. No. 118,734; Aug. 23; v. 289; p. 753.
Jarvis, Henry C., New York, N. Y. Pills intended as a remedy for constipation and torpid liver. No. 143,761; Aug. 23; v. 289; p. 768.
Jewell, Ariel C., Chicago, Ill. Non-alcoholic, non-cereal, maltless beverages and syrups for making same. No. 150,195; Aug. 23; v. 289; p. 786.
Jewett & Sowers Oil Co., The, Chicago, Ill. Motor-lubricating oils. No. 131,636; Aug. 23; v. 289; p. 757.
Johnson, Sarah A., Quincy, Mass. Hair-tonic. No. 145,339; Aug. 23; v. 289; p. 772.
Johnston, Cecil, Royse City, Tex. Treatment of chills. No. 139,713; Aug. 23; v. 289; p. 761.
Junior Hosiery Company, Philadelphia, Pa. Hosiery. No. 146,122; Aug. 23; v. 289; p. 776.
Kanner, Mark & Traurig, New York, N. Y. Misses' and juniors' suits and coats. No. 140,337; Aug. 23; v. 289; p. 762.
Kay, Bernard, New York, N. Y. Imitation-leather material. No. 148,659; Aug. 23; v. 289; p. 783.
Keystone Die Casting Co., Norristown, Pa. Ingots of non-ferrous metal. No. 139,581; Aug. 23; v. 289; p. 761.
Kimball, Willard A., New York, N. Y. Men's and boys' clothing. No. 147,111; Aug. 23; v. 289; p. 779.
King Refractories Corporation, Buffalo, N. Y. Hydraulic and high-temperature cement. No. 148,229; Aug. 23; v. 289; p. 782.
Kite, Barney, Chicago, Ill. Preparation for the treatment of rheumatism, neuralgia, lumbago, &c. No. 138,445; Aug. 23; v. 289; p. 760.
Klenzal Co. Inc., The, Washington, D. C. Paste cleanser for carpets, rugs, and other fabrics. No. 130,143; Aug. 23; v. 289; p. 755.
Knapp, Annette, Los Angeles, Calif. Toilet preparation used as a face-pack. No. 130,369; Aug. 23; v. 289; p. 756.
Krause, Chas. A., Milling Co., Greenfield, Wis. Cracked corn for poultry feed, known as scratch feed. No. 131,974; Aug. 23; v. 289; p. 757.
Krauss, Herman, Toledo, Ohio. Malt extracts. No. 149,233; Aug. 23; v. 289; p. 785.
Kuhn, Harry J., Houston, Tex. Paste and liquid paints and painters' enamels, stains, and fillers, and putty. Nos. 142,442–3; Aug. 23; v. 289; p. 765.
Kukac, Edward J., Chicago, Ill. Molds for casting battery parts. No. 144,288; Aug. 23; v. 289; p. 769.
Lamping-Nolan, (Mrs.) Cora M., Boston, Mass. Massage and tissue cream. No. 145,788; Aug. 23; v. 289; p. 773.
Laskin, J., & Sons, New York, N. Y. Brown-dyed rabbit skins. No. 142,562; Aug. 23; v. 289; p. 766.
Lieberman Manufacturing Co., Philadelphia, Pa. Men's, women's, and boys' suits and trousers. No. 146,443; Aug. 23; v. 289; p. 777.
Lincoln-Ray Manufacturing Co., Springfield, Mass. Solid and liquid toilet soaps, washing-wafers and laundry soaps, &c. No. 143,504; Aug. 23; v. 289; p. 767.
Little Duchess Dress Co., Inc., The, assignor to The Rotary Frocks, Inc., New York, N. Y. Women's, misses', children's, and infants' clothing—namely, suits, dresses, skirts, coats, &c. Nos. 142,512–13; Aug. 23; v. 289; p. 766.
Lorimer, Greenbaum Co., Inc., New York, N. Y. Worsted trimming for use in art-needlework. No. 138,577; Aug. 23; v. 289; p. 760.
Marburg Brothers, Inc., New York, N. Y. Rolling stock and parts thereof; automobiles, parts, and accessories, &c. No. 133,323; Aug. 23; v. 289; p. 758.
Mead Johnson & Co., Evansville, Ind. Preparation of the casein or protein of milk used to increase the protein of various diets. No. 148,740; Aug. 23; v. 289; p. 784.
Merit Baby Wear Company, New York, N. Y. Infants' sleeping-garments. No. 144,732; Aug. 23; v. 289; p. 771.
Metal and Alloy Specialties Company, Inc., Buffalo, N. Y., assignor, by mesne assignments, to Heirloom Aluminum Corporation, Buffalo, N. Y. Metal kettles, pots, pans, skillets, griddles, &c. No. 142,264; Aug. 23; v. 289; p. 765.

Michigan Humus & Chemical Company, Chassell and Klingville, Mich. Fertilizers. No. 147,493; Aug. 23; v. 289; p. 780.
Michigan Wire Goods Co., Niles, Mich. Doll beds and cribs. No. 139,862; Aug. 23; v. 289; p. 762.
Mill and Mine Supply Co., Seattle, Wash. Power-driven pumps, drag-saws, and iron wedges, hammers, &c. No. 133,668; Aug. 23; v. 289; p. 758.
Minerva Motors, Antwerp, Belgium. Transmission apparatus and explosion-motors for motor-cars, &c. No. 139,214; Aug. 23; v. 289; p. 760.
Moore Company, The, Temperance, Mich. Cough-syrup. No. 146,645; Aug. 23; v. 289; p. 777.
Morgan Spring Company, Worcester, Mass. Wire articles. No. 117,621; Aug. 23; v. 289; p. 752.
Morris, Lula E., Baltimore, Md. Hair grower and tonic, facial cream, shampoo, &c. No. 146,385; Aug. 23; v. 289; p. 777.
Murdock, C. A., Mfg. Co., Kansas City, Mo. Coffee, spices, mustard, fruit flavoring extracts—namely, lemon. No. 148,158; Aug. 23; v. 289; p. 782.
Neal, Julia A., Oklahoma, Okla. Preparations for promoting the growth of the hair. No. 146,231; Aug. 23; v. 289; p. 776.
Nelson & McLeod, Seattle, Wash. Preparation for making hair lie flat against the head. No. 146,228; Aug. 23; v. 289; p. 776.
Newark Tortoise Shell Novelty Co., Newark, N. J. Hand-mirrors and picture-frames. No. 147,527; Aug. 23; v. 289; p. 780.
Newport Chemical Works, Incorporated, Passaic, N. J. Dyes. No. 140,730; Aug. 23; v. 289; p. 762.
News Syndicate Co., Inc., New York, N. Y. Newspapers published in the city of New York. No. 147,568; Aug. 23; v. 289; p. 780.
Ohio Valley Bottling Works, Cincinnati, Ohio. Non-alcoholic, non-cereal, maltless beverages. No. 149,523; Aug. 23; v. 289; p. 785.
O'Neal, Daniel B., Oconee, Tenn. External medicines for the treatment of cancer. No. 146,233; Aug. 23; v. 289; p. 776.
Oppenheim, Oberndorf & Co., Inc., Baltimore, Md. Men's, women's, and children's drawers, pajamas, union-suits, undershirts, &c. No. 143,830; Aug. 23; v. 289; p. 769.
Or-Blos-Co., Jacksonville, Fla. Talcum and face powder, perfume, toilet water. No. 143,700; Aug. 23; v. 289; p. 768.
Palmer, Oscar E., Cleveland, Ohio. Ointment for eruptions of skin. No. 145,704; Aug. 23; v. 289; p. 773.
Paterson, John, & Co., Ltd., Glasgow, Scotland. Liquid compound for toilet use in connection with hot or cold water for bathing, &c. No. 126,332; Aug. 23; v. 289; p. 753.
Paterson, John, & Co., Ltd., Glasgow, Scotland. Liquid insecticide. No. 126,333; Aug. 23; v. 289; p. 753.
Paulson, Marcus, Brooklyn and New York, N. Y. Ladies' silk and muslin underwear. No. 146,843; Aug. 23; v. 289; p. 778.
Penn Shoe & Overgaiter Co., Philadelphia, Pa. Spats and overgaiters. No. 125,163. Aug. 23; v. 289; p. 753.
Penny, Thomas M., New York, N. Y. Medicinal tablets for the treatment of colds. No. 145,966; Aug. 23; v. 289; p. 774.
Perkins, A. E., Jr., Baltimore, Md. Candy. No. 148,550; Aug. 23; v. 289; p. 783.
Philadelphia Operative Builders Association, Philadelphia, Pa. Monthly periodical. No. 148,239; Aug. 23; v. 289; p. 782.
Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Wool and cotton underwear for men, women, and children. No. 142,098; Aug. 23; v. 289; p. 764.
Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 142,099; Aug. 23; v. 289; p. 764.
Pittsburgh Dry Goods Company, The, Pittsburgh, Pa. Hosiery. No. 145,707; Aug. 23; v. 289; p. 773.
Plasterer, Purl C., Hamilton, Ohio, assignor to Darn E. Z. Laboratories. Patching-cement. No. 142,806; Aug. 23; v. 289; p. 766.
Pomeroy Ink Manufacturing Co., Newark, N. J. Mucilage, paste, and sealing-wax. No. 131,501; Aug. 23; v. 289; p. 757.
Portland Cordage Co., The, Portland, Oreg. Lariat-rope. No. 150,466; Aug. 23; v. 289; p. 786.
Prance, Henry T., Kalamazoo, Mich. Glass cleansing and polishing liquid. No. 148,672; Aug. 23; v. 289; p. 784.
Premier Malt Products Co. of Ohio, Inc., Steubenville, Ohio. Malt syrup used for food purposes. No. 148,164; Aug. 23; v. 289; p. 782.
Priddy, George H., Huntington, W. Va. Water-deflecting dressing for windshields. No. 142,669; Aug. 23; v. 289; p. 766.
Puritan Oil and Soap Company, The, Boston, Mass. Lubricating oils and greases. No. 143,947; Aug. 23; v. 289; p. 769.
Queen Incubator Company, Lincoln, Nebr. Chicken incubators, brooders, and galvanized hovers. No. 147,308; Aug. 23; v. 289; p. 779.
Raffel, J. M. Co., Baltimore, Md. Corrugated-fiber packages, folding boxes, and paper boxes. No. 139,225; Aug. 23; v. 289; p. 761.
Read Machinery Co., York, Pa. Baker's machinery—namely, cake-mixers, dough-mixers, &c. No. 144,589; Aug. 23; v. 289; p. 770.
Rechateiner Embroidery Company., Inc., Chicago, Ill. Embroideries or embroidered articles. No. 147,795; Aug. 23; v. 289; p. 780.
Richardson Dry Goods Co., St. Joseph, Mo. Ladies' neckwear. No. 132,364; Aug. 23; v. 289; p. 757.
Rogers, Charles P., & Co., Inc., New York, N. Y. Bed-springs, mattresses, and pillows. No. 146,335; Aug. 23; v. 289; p. 776.
Rotary Frocks, Inc. (See Little Duchess Dress Co., assignor.)
Roy, Amelia G., Nashua, N. H. Preparation sold in capsules for the treatment of headaches. No. 146,084; Aug. 23; v. 289; p. 775.
Royal Baking Powder Company, Jersey City, N. J., and New York, N. Y. Baking-powder. No. 143,708; Aug. 23; v. 289; p. 768.
Rutland, William H., Altus, Okla. Medicinal preparations for the treatment of affections of the eye. No. 117,783; Aug. 23; v. 289; p. 752.
Safchik & Company, New York, N. Y. Fur coats, capes, wraps, neck-pieces, and muffs and cloth coats either plain or trimmed with fur. No. 145,369; Aug. 23; v. 289; p. 772.
Sanitary Mattress Company, Minneapolis, Minn. Mattresses. No. 138,641½; Aug. 23; v. 289; p. 760.
Schomer, Henry, Company, Chicago, Ill. Bed-springs. No. 145,965; Aug. 23; v. 289; p. 774.
Sebring Citrus Growers Association, Sebring, Fla. Fresh citrus fruits. No. 148,625; Aug. 23; v. 289; p. 783.
Security Cement & Lime Co., Hagerstown, Md. Calcareous composition for soil improvement. No. 141,242; Aug. 23; v. 289; p. 763.
Sedberry, James B., Texarkana, Ark. Agricultural and milling machinery consisting of feed-mills, grinding-mills, &c. No. 146,401; Aug. 23; v. 289; p. 777.
Shaft-Pierce Shoe Co., Faribault, Minn. Fabric, rubber, rubber-composition, and leather shoes. No. 137,045; Aug. 23; v. 289; p. 759.
Sharpe & Dohme, Baltimore, Md. Medical compound for treatment of indigestion or dyspepsia. No. 146,188; Aug. 23; v. 289; p. 776.
Shattock, Clifford, Detroit, Mich. Valve-grinding compound. No. 148,513; Aug. 23; v. 289; p. 783.
Sheldon Axle & Spring Co., Wilkes-Barre, Pa. Springs for vehicles. No. 145,921; Aug. 23; v. 289; p. 774.
Shurly, T. F., Co. Limited, St. Catharines, Ontario, Canada. Saws of all kinds and machine-knives. No. 139,552; Aug. 23; v. 289; p. 761.
Signode System, Inc., Chicago, Ill. Metal strapping for balls, wooden boxes, &c., and metallic fastening-seals for said strapping. No. 100,827; Aug. 23; v. 289; p. 751.
Sloan, Dr. Earl S. Incorporated, Wilmington, Del.; New York, N. Y., and St. Louis, Mo. Liniment used in treatment of muscular rheumatism, lumbago, &c. No. 143,896; Aug. 23; v. 289; p. 769.
Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. No. 135,870; Aug. 23; v. 289; p. 758.
Solene Products Company, Perkasie, Pa. Chemical preparation for the removal of road tar from auto-bodies, leaving a polished surface. No. 139,681; Aug. 23; v. 289; p. 761.
Southern Veterinary Remedies Company, Birmingham, Ala. Medical preparation for black tongue, sore mouth, and distemper. No. 144,475; Aug. 23; v. 289; p. 769.
Spencer, Frank H., Lexington, Ky. Bungalow-aprons. No. 144,689; Aug. 23; v. 289; p. 770.
Spencer, Harold R., New York, N. Y. Chemical for removing dirt and stains. No. 147,321; Aug. 23; v. 289; p. 779.
Stamos, Marianthi F., Canajoharie, N. Y. Cream for beautifying the skin. No. 141,694; Aug. 23; v. 289; p. 763.
Stewart-Skinner Company, Worcester, Mass. Knife-grinders, scissors-sharpeners, clothesline-pulleys, &c. No. 131,671; Aug. 23; v. 289; p. 757.
Summerfield Company, Boston, Mass. Sofas, couches, davenports, cedar chests, dressers, &c. No. 131,049; Aug. 23; v. 289; p. 756.
Swartz, Henry, Philadelphia, Pa. Carburetors, which are air-feeding devices in coal-burning furnaces. No. 144,690; Aug. 23; v. 289; p. 770.
Swiantox Company, The, Eaton, Ohio. Hog medicines for treatment of congested liver, indigestion, &c. No. 146,398; Aug. 23; v. 289; p. 777.
Taylor Tamale Company, Los Angeles, Calif. Chilli sauce, chilli-con-carne with frijoles, boneless Spanish chicken tamales, &c. No. 133,170; Aug. 23; v. 289; p. 758.
Thornton & Mawby Limited, Leicester, England. Blouses, aprons, knitted leggings, bodices, pelisses, &c. No. 143,796; Aug. 23; v. 289; p. 768.
Tonk Manufacturing Co., Chicago, Ill. Piano-benches. No. 141,813; Aug. 23; v. 289; p. 764.
Tri-State Ice Cream Corporation, La Crosse, Wis. Ice-Cream. No. 149,302; Aug. 23; v. 289; p. 785.
Tuckaway Folding Ladder Co., Inc., New York, N. Y. Folding ladders. No. 144,692; Aug. 23; v. 289; p. 770.
Tuskeloid Company, Inc., New York, N. Y. Hand and wall mirrors and picture-frames. No. 140,688; Aug. 23; v. 289; p. 762.

(REGISTRATION APPLIED FOR.)

Tuskeloid Company, Inc., New York, N. Y. Hand and wall mirrors and picture-frames. No. 140,695; Aug. 23; v. 289; p. 762.

U. S. Industrial Alcohol Co., New York, N. Y. Ethyl alcohol. No. 142,438; Aug. 23; v. 289; p. 765.

U. S. Industrial Chemical Co., Baltimore, Md. Fertilizers. No. 148,958; Aug. 23; v. 289; p. 784.

Uehling Instrument Co., Passaic, N. J., and New York, N. Y. Indicating and recording instruments for use in effecting fuel saving. No. 136,773; Aug. 23; v. 289; p. 759.

Undertaker's Fluid Co., Inc., Syracuse, N. Y. Arterial and cavity embalming fluid. No. 144,551; Aug. 23; v. 289; p. 770.

Union Twist Drill Company, Athol and Mansfield, Mass. Collets, thread-cutting dies and guides therefor, die-holders, &c. No. 141,146; Aug. 23; v. 289; p. 763.

United Publishing Company, Kansas City, Mo. Monthly magazine. No. 149,303; Aug. 23; v. 289; p. 785.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Machines, their parts and accessories, and tools used in the manufacture of boots and shoes. No. 141,542; Aug. 23; v. 289; p. 763.

United States Envelope Company, Springfield, Mass. Paper drinking-cups. No. 122,095; Aug. 23; v. 289; p. 753.

Vantex Chemical Company, Memphis, Tenn., and New York, N. Y. Skin-ointment. No. 133,032; Aug. 23; v. 289; p. 758.

Vivaudou, V., Inc., New York, N. Y. Rouge and face-powder in compact form. No. 148,356; Aug. 23; v. 289; p. 782.

W. S. Libbey Company, Lewiston, Me. Bed-blankets made of a mixture of cotton and wool and entirely of cotton. No. 137,843; Aug. 23; v. 289; p. 759.

Wahl Company, The, Chicago, Ill. Leads suitable for use in mechanical pencils. No. 128,122; Aug. 23; v. 289; p. 754.

Waldeck, Charles Alfred, Company, Inc., The. Vaporising apparatus. No. 138,153; Aug. 23; v. 289; p. 759.

Weidemann, Geo., Company, The, Newport, Ky. Non-beverage grain-alcohol. No. 144,698; Aug. 23; v. 289; p. 771.

"Weldrite" Company, Incorporated, Long Island City, N. Y. Welding, cutting, and removing torches, tips, and parts thereof. No. 144,555; Aug. 23; v. 289; p. 770.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Steam turbines and condensers, auxiliary apparatus for condensers, &c. No. 145,249; Aug. 23; v. 289; p. 772.

Wheelan, Edgar, New York, N. Y. Series of cartoons. No. 145,761; Aug. 23; v. 289; p. 773.

Whitfield, Joseph C., Palisades Park, N. J. Natural gas. No. 145,760; Aug. 23; v. 289; p. 773

Whiting-Mead Commercial Co., Los Angeles, Calif. Porcelain enameled bathtubs, lavatories, toilets, &c. No. 137,985; Aug. 23; v. 289; p. 759.

Wielich, Albert, New York, N. Y. Malt extracts. No. 140,974; Aug. 23; v. 289; p. 763.

Wilson Brothers, Chicago, Ill. Dress and negligée shirts, one and two piece undergarments, hosiery, &c. No. 145,732; Aug. 23; v. 289; p. 778.

Wilson Brothers, Chicago, Ill. Garters, belts for personal wear, suspenders, and armbands. No. 145,733; Aug. 23; v. 289; p. 773.

Wilson Brothers, Chicago, Ill. Garters, suspenders, belts for personal wear, and armbands. No. 145,731; Aug. 23; v. 289; p. 773.

Wolfrom, Daniel D., San Francisco, Calif. Polish for automobiles, floors, and wood and varnished surfaces. No. 133,440; Aug. 23; v. 289; p. 758.

Worden, W. H., Co., San Francisco, Calif. Wire rope for general purposes. No. 142,188; Aug. 23; v. 289; p. 764.

York Drug Store, York, S. C. Preparation for the treatment of headache, neuralgia, cold, &c. No. 148,188; Aug. 23; v. 289; p. 782.

Young & Griffin Coffee Co. Inc., New York, N. Y. Roasted coffee. No. 148,358; Aug. 23; v. 289; p. 782.

Zip Products Company, Fremont, Ohio. Cleansing and polishing fluid. No. 147,328; Aug. 23; v. 289; p. 779.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 23D DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Advertising device. F. Thompson. No. 1,388,219; Aug. 23; v. 289; p. 628.

Aeroplane. A. L. Turner. No. 1,388,620; Aug. 23; v. 289; p. 707.

Aeroplane-wing for transportation or storage, Folding or jointing. A. H. G. Fokker. No. 1,388,457; Aug. 23; v. 289; p. 677.

Air-brake control. J. S. Rasnick and W. S. Blevins. No. 1,388,483; Aug. 23; v. 289; p. 681.

Air-heating furnace. L. Lee. No. 1,388,583; Aug. 23; v. 289; p. 700.

Air-preheating device. L. W. Schuessler. No. 1,388,381; Aug. 23; v. 289; p. 661.

Aircraft, Landing-station for. P. J. Backus. No. 1,388,819; Aug. 23; v. 289; p. 649.

Airplane. M. C. Sharpnack. No. 1,388,770; Aug. 23; v. 289; p. 736.

Airplane-launching apparatus. L. J. Le Mesurier. No. 1,388,361; Aug. 23; v. 289; p. 657.

Airplane-wings and the like, Rib for. W. H. Barling. No. 1,385,543; Aug. 23; v. 289; p. 692.

Alum cake, Manufacture of. R. Moldenke. No. 1,388,436; Aug. 23; v. 289; p. 672.

Amusement device. J. Flinner. No. 1,388,420; Aug. 23; v. 289; p. 669.

Anesthetic compound. O. Kamm and E. H. Volwiler. No. 1,388,573; Aug. 23; v. 289; p. 698.

Annealing. P. A. Meehan. No. 1,388,188; Aug. 23; v. 289; p. 621.

Antiskid device. J. C. Keavey. No. 1,388,264; Aug. 23; v. 289; p. 637.

Arms and legs, Control for artificial. J. R. B. Norfolk. No. 1,388,524; Aug. 23; v. 289; p. 689.

Articles having a systematic resemblance to a pattern, Manufacture of. E. J. Prindle. No. 1,388,301; Aug. 23; v. 289; p. 644.

Articles having a systematic resemblance to a pattern, Manufacture of. E. J. Prindle. No. 1,388,302; Aug. 23; v. 289; p. 645.

Auto adjustable sunshade. E. V. Powers and W. J. Boyd. No. 1,388,199; Aug. 23; v. 289; p. 623.

Automatic ventilator. C. C. Shipp. No. 1,388,611; Aug. 23; v. 289; p. 705.

Automobile-bodies, Reinforcing. J. F. Godfrey. No. 1,388,250; Aug. 23; v. 289; p. 634.

Automobile-bumper. T. A. Hoover. No. 1,388,432; Aug. 23; v. 289; p. 672.

Automobile gasolene-lock. H. M. Mason. No. 1,388,280; Aug. 23; v. 289; p. 640.

Automobile-radiators, Heater for. A. and H. Priebe. No. 1,388,300; Aug. 23; v. 289; p. 644.

Automobile-windshields, Glare-shield attachment for. R. H. Woodmansee. No. 1,388,446; Aug. 23; v. 289; p. 675.

Automobiles, Direction-indicator for. O. C. Cook. No. 1,388,550; Aug. 23; v. 289; p. 694.

Automobiles, Manifold-heater for. H. J. Wheeler. No. 1,388,538; Aug. 23; v. 289; p. 691.

Automobiles, Means for operating the steering-posts of. E. P. Le Compte. No. 1,388,582; Aug. 23; v. 289; p. 700.

Automobiles, Pulling apparatus for. J. H. Wood. No. 1,388,683; Aug. 23; v. 289; p. 719.

Automobiles, Shipping-support for. J. N. Duncan. No. 1,388,244; Aug. 23; v. 289; p. 633.

Automobiles, Side curtain for. L. and C. Gillig. No. 1,388,425; Aug. 23; v. 289; p. 670.

Automobiles, Spring-equalizer attachment for. B. F. Hardesty. No. 1,388,461; Aug. 23; v. 289; p. 678.

Ax-heads, Attachment for. C. E. Manners. No. 1,388,475; Aug. 23; v. 289; p. 680.

Axle. T. Zimmermann. No. 1,388,397; Aug. 23; v. 289; p. 664.

Bag-cleaning apparatus. J. M. Kelly. No. 1,388,722; Aug. 23; v. 289; p. 727.

Basket. H. R. Garritson. No. 1,388,556; Aug. 23; v. 289; p. 694.

Basket, Creel or trout-. W. L. Marble. No. 1,388,187; Aug. 23; v. 289; p. 621.

Batteries, Electrode for storage. V. C. Stanley. No. 1,388,530; Aug. 23; v. 289; p. 690.

Battery: *See*—
Storage battery.

Battery-cells, Machine for polishing. S. L. Casella. No. 1,388,403; Aug. 23; v. 289; p. 660.

Battery-tester. L. L. Laska. No. 1,388,727; Aug. 23; v. 289; p. 728.

Bearing, Self-alining shaft-. W. Bartholomew and G. Simon. No. 1,388,321; Aug. 23; v. 289; p. 649.

Bearings, Clamping device for. J. C. Nelson. No. 1,388,200; Aug. 23; v. 289; p. 642.

Bed. J. Yeager. No. 1,388,783; Aug. 23; v. 289; p. 739.

Bed, Invalid-. T. Dodds. No. 1,388,242; Aug. 23; v. 289; p. 632.

Bed-spring. J. L. Isaacs. No. 1,388,261; Aug. 23; v. 289; p. 636.

Bed-spring. F. Karr. No. 1,388,263; Aug. 23; v. 289; p. 637.

Bedpan. E. D. Abraham. No. 1,388,155; Aug. 23; v. 289; p. 615.

Bellows-box. F. J. Novotney. No. 1,388,293; Aug. 23; v. 289; p. 643.

Binder, Loose-leaf. C. R. Nelson. No. 1,388,591; Aug. 23; v. 289; p. 701.

Bit: *See*—
Rotary bit.

Blanc fixe, Manufacture of. G. Moore. No. 1,388,285; Aug. 23; v. 289; p. 641.

Blanching peanuts. R. P. Witt. No. 1,388,395; Aug. 23; v. 289; p. 664.

Board: *See*—
Hammer-board.

Boat, Submarine. J. B. Locker. No. 1,388,730; Aug. 23; v. 289; p. 729.

Boiler-tube-cleaning device. J. Ross. No. 1,388,309; Aug. 23; v. 289; p. 646.

Bolt: *See*—
Door-bolt.

Bomb, Exploding toy. L. F. Duck. No. 1,388,807; Aug. 23; v. 289; p. 744.

Boring and grinding cylinders, Lathe attachment for. C. I. Kephart. No. 1,388,576; Aug. 23; v. 289; p. 698.

Bottle, Thermos. G. S. Meikle. No. 1,388,189; Aug. 23; v. 289; p. 621.

Bowl, Gazing-. L. M. Anderson. No. 1,388,789; Aug. 23; v. 289; p. 740.

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Sintering-pans, Grate for. J. E. Greenawalt. No. 1,388,335; Aug. 23; v. 289; p. 652.
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ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antiseptic. Van Vleet-Mansfield Drug Co. No. 146,014; Aug. 23; v. 289; p. 789.
Automobile-body, furniture, and piano polishing material. M. T. Mallon. No. 145,980; Aug. 23; v. 289; p. 788.
Automobile-brake linings. Russell Manufacturing Company. No. 146,050; Aug. 23; v. 289; p. 794.
Axles for motor-vehicles. Timken-Detroit Axle Company. No. 146,052; Aug. 23; v. 289; p. 794.
Balls, Golf-. United States Rubber Company. No. 146,012; Aug. 23; v. 289; p. 789.
Belts, Transmission-. Arthur S. Brown Mfg. Co. No. 146,026; Aug. 23; v. 289; p. 791.
Books, pamphlets, posters, &c. Christmas Club (a Corporation.) No. 146,028; Aug. 23; v. 289; p. 791.
Books, Series of. P. F. Collier & Son Company. Nos. 146,029–30; Aug. 23; v. 289; p. 791.
Buttons and links, Cuff. S. B. Kahn. No. 145,971; Aug. 23; v. 289; p. 788.
Cabinet, Garment-. M. L. Himmel & Son. No. 146,034; Aug. 23; v. 289; p. 792.
Candies. G. G. Cornwell & Son. No. 145,940; Aug. 23; v. 289; p. 787.
Candies. Eye Brand Confectionery Inc. No. 146,031; Aug. 23; v. 289; p. 791.
Candies, Western Martha Washington Candies Company. Nos. 146,057–8; Aug. 23; v. 289; p. 795.
Candy. Curtiss Candy Co. Nos. 145,937–8; Aug. 23; v. 289; p. 787.
Candy. Voegele & Dinning Co. No. 146,056; Aug. 23; v. 289; p. 795.
Candy and cake. H. Yamaguchi. No. 146,018; Aug. 23; v. 289; p. 790.
Canned sardines, salad and olive oils, &c. Hammer & Co. No. 145,959; Aug. 23; v. 289; p. 788.
Cement, asphalt roll and asphalt shingle roofings, Plastic American Turpentine Company. No. 146,025; Aug. 23; v. 289; p. 791.
Chemical preparation. Shanb & Howett. No. 146,001; Aug. 23; v. 289; p. 689.
Chocolates. Boston Confectionery Company. No. 145,933; Aug. 23; v. 289; p. 787.
Clay products, Pressed. Los Angeles Pressed Brick Co. No. 146,043; Aug. 23; v. 289; p. 793.
Clothes, Men's. Kahn Tailoring Company. No. 146,040; Aug. 23; v. 289; p. 793.
Coffee. A. Triantafilakos. No. 146,011; Aug. 23; v. 289; p. 789.
Coffee. Waples-Platter Grocer Company. No. 146,016; Aug. 23; v. 289; p. 789.
Colored fire, Chemical composition for producing. Edwin A. Jackson & Bro. No. 145,968; Aug. 23; v. 289; p. 788.
Compound solution for carbon in automobiles and in gasolene-engines. A. A. Harper. No. 145,960; Aug. 23; v. 289; p. 788.
Cotton piece goods. Gibson Mfg. Co. No. 146,032; Aug. 23; v. 289; p. 792.
Cotton piece goods, Plain white or printed. Windsor Print Works. No. 146,021; Aug. 23; v. 289; p. 790.
Cream, Beauty-. K. M. Quinlan. No. 145,996; Aug. 23; v. 289; p. 789.
Cream or ointment, Face. Dr. C. H. Berry Chemical Co. No. 145,929; Aug. 23; v. 289; p. 787.
Cream to be applied to the skin for removing freckles and spots. F. T. Martinez. No. 145,981; Aug. 23; v. 289; p. 788.
Dairy products. Great Falls Dairy Products Company. No. 145,956; Aug. 23; v. 289; p. 788.
Dentifrice. J. N. Cole. No. 145,939; Aug. 23; v. 289; p. 787.
Detergent. Chemical Utilities Company. No. 145,936; Aug. 23; v. 289; p. 787.
Dyestuffs, &c. National Aniline & Chemical Company. No. 145,985; Aug. 23; v. 289; p. 789.
Eggs. C. Ahlers. No. 145,926; Aug. 23; v. 289; p. 787.
Eggs, butter, poultry. George F. Hinrichs, Incorporated. No. 145,964; Aug. 23; v. 289; p. 788.
Fabric imitating silk in the piece and draperies, tablecovers, &c., Fiber. A. Theo. Abbott & Co. No. 146,023; Aug. 23; v. 289; p. 791.
Feed, Cow. J. E. Mugge. No. 145,983; Aug. 23; v. 289; p. 788.
Fishing-rods. Horton Manufacturing Company. No. 146,038; Aug. 23; v. 289; p. 792.
Flavoring extracts. Cadmus Products Company. No. 145,935; Aug. 23; v. 289; p. 787.
Flour, Self-rising wheat-. J. Allen Smith & Co. No. 146,002; Aug. 23; v. 289; p. 689.
Flour, Wheat-. Eagle Roller Mill Co. No. 145,969; Aug. 23; v. 289; p. 788.
Flour, Wheat-. Piedmont Mills. No. 145,993; Aug. 23; v. 289; p. 789.
Flours, cornmeal, health-bran, Wheat, &c. Great Western Milling Company. No. 145,957; Aug. 23; v. 289; p. 788.
Foods for infants, invalids, and convalescents. Lenitone Laboratories Company. No. 145,975; Aug. 23; v. 289; p. 788.
Foot-powder. Dr. T. Schondau. No. 145,998; Aug. 23; v. 289; p. 789.
Fungicides, insecticides, weed-destroyers. J. G. Lipman. No. 145,978; Aug. 23; v. 289; p. 788.
Furniture, &c., Store. M. L. Himmel & Son. No. 146,036; Aug. 23; v. 289; p. 792.

Furniture, floor, and automobile polish or dressing. J. M. Ensign. No. 145,951; Aug. 23; v. 289; p. 787.
Hair-dressing preparations. T. Noonan & Sons Company. No. 145,968; Aug. 23; v. 289; p. 789.
Hair-restorer. R. J. Arata. No. 145,927; Aug. 23; v. 289; p. 787.
Hair-tonic. J. B. Kori. No. 145,973; Aug. 23; v. 289; p. 788.
Hair-tonic. J. Legglere. No. 145,974; Aug. 23; v. 289; p. 788.
Hair-tonic. T. Noonan & Sons Company. No. 146,046; Aug. 23; v. 289; p. 793.
Ice-creams and frozen desserts. Nucoa Butter Company. No. 145,987; Aug. 23; v. 289; p. 789.
Insecticide, disinfectant, and deodorizer. Rono Products Corporation. No. 145,932; Aug. 23; v. 289; p. 787.
Latches. Albany Hardware Specialty Mfg. Co. No. 146,024; Aug. 23; v. 289; p. 791.
Liquid preparation for smoothing and dressing the hair and for use as a scalp-tonic. J. Mauro. No. 145,982; Aug. 23; v. 289; p. 788.
Magnesia, Bottled. C. H. Husband. No. 145,967; Aug. 23; v. 289; p. 788.
Maple-sugar, cans of soft-grain maple-sugar, &c. Cakes of. Cary Maple Sugar Company. No. 146,027; Aug. 23; v. 289; p. 791.
Medical preparation for colds, neuralgia, &c. A. J. Holliday. No. 145,966; Aug. 23; v. 289; p. 788.
Medical substances, Antigonorrheic and astringent. Winthrop Chemical Company. No. 146,022; Aug. 23; v. 289; p. 790.
Medicinal preparation. Bellingham Chemical Co. No. 145,928; Aug. 23; v. 289; p. 787.
Medicinal preparation. Cur-Zon Company. No. 145,942; Aug. 23; v. 289; p. 787.
Medicinal preparation. A. J. Doherty. No. 145,946; Aug. 23; v. 289; p. 787.
Medicinal preparation. "P A C" Laboratories. No. 145,989; Aug. 23; v. 289; p. 789.
Medicinal preparations Na-Hom Laboratory. No. 145,984; Aug. 23; v. 289; p. 788.
Medicinal preparations. G. Harris. No. 145,961; Aug. 23; v. 289; p. 788.
Medicine for deafness. V. A. Bioleck. No. 145,930; Aug. 23; v. 289; p. 787.
Medicine for malaria. Vino Medical Co. No. 146,055; Aug. 23; v. 289; p. 795.
Medicine used as a uterine sedative. F. Frazier. No. 145,952; Aug. 23; v. 289; p. 787.
Medicines, Home. Boericke & Runyon Co. No. 145,931; Aug. 23; v. 289; p. 787.
Medicines, Laxative. A. J. White Limited. No. 146,017; Aug. 23; v. 289; p. 789.
Milk, Condensed, evaporated, and powdered. Rico Milk Products Company. No. 146,049; Aug. 23; v. 289; p. 794.
Mouth-washes, Antiseptic. A. G. H. Duden. No. 145,949; Aug. 23; v. 289; p. 787.
Nuts and candy. Thrift Stores, Inc. No. 146,010; Aug. 23; v. 289; p. 789.
Paint-reducer. Turpsene Mfg. Co. No. 146,053; Aug. 23; v. 289; p. 794.
Paste, Tooth-. J. F. Sullivan. No. 146,009; Aug. 23; v. 289; p. 789.
Pears, Fresh. J. A. de Back. No. 145,943; Aug. 23; v. 289; p. 787.
Perfumes. G. M. Wildes. No. 146,019; Aug. 23; v. 289; p. 790.
Pharmaceutical preparations. Madison Chemical Company. No. 146,044; Aug. 23; v. 289; p. 793.
Pharmaceutical preparations. C. Pepin. No. 145,991; Aug. 23; v. 289; p. 789.
Pharmaceutical preparations. Society of Chemical Industry in Basle. Nos. 146,003–4; Aug. 23; v. 289; p. 789.
Piece goods for wearing-apparel, upholstery, &c. Seaman's & Cobb Company. No. 146,000; Aug. 23; v. 289; p. 789.
Polishing material—namely, auto-polish. De-Lite Manufacturing Company. No. 145,944; Aug. 23; v. 289; p. 787.
Pomades for the hair. M. Goldstein. No. 145,955; Aug. 23; v. 289; p. 788.
Poultry compound. J. S. Griffith. No. 145,958; Aug. 23; v. 289; p. 788.
Powder, Face-. J. F. Sullivan. No. 146,008; Aug. 23; v. 289; p. 789.
Powder, Face-. Van Antwerp's Drug Corporation. No. 146,054; Aug. 23; v. 289; p. 795.
Powders, rouges, lip-sticks, &c., Face-. Embee Company. No. 145,950; Aug. 23; v. 289; p. 787.
Preparation for certain named purposes. King & Williams. No. 146,041; Aug. 23; v. 289; p. 793.
Preparation for dandruff, eczema, &c. W. T. Marshall. No. 145,994; Aug. 23; v. 289; p. 789.
Preparation for scalp diseases. C. H. Scott. No. 145,999; Aug. 23; v. 289; p. 689.
Preparation for treatment of bruises, scalds, &c. E. C. DeWitt Co. Inc. No. 145,945; Aug. 23; v. 289; p. 787.
Preparation for treatment of diseases of the throat and lungs. M. A. Sords. No. 146,005; Aug. 23; v. 289; p. 689.
Preparation for treatment of piles. Hindu Chemical Co. No. 145,963; Aug. 23; v. 289; p. 788.
Preparation for use in the treatment of pyorrhea. C. S. Williams. No. 146,020; Aug. 23; v. 289; p. 790.
Preparation to facilitate the separation of the mold and cast. J. B. Jones. No. 145,970; Aug. 23; v. 289; p. 788.
Remedy for headache, colds, and rheumatism. Liberty Products Company. Nos. 145,976–7; Aug. 23; v. 289; p. 788.
Remedy, Headache. A. A. Burnham. No. 145,934; Aug. 23; v. 289; p. 787.
Ribbons, laces, tulles, and woven fabrics in the piece. Dollfus Mieg & Cie., Societe Anonyme. Nos. 145,947–8; Aug. 23; v. 289; p. 787.
Rubber belting and hose. W. S. Nott Company. Nos. 146,047–8; Aug. 23; v. 289; p. 794.
Sardines and olive-oil. Von Bremen, Asche & Co. No. 146,015; Aug. 23; v. 289; p. 789.
Shade-cloth. Interstate Shade Cloth Co. No. 146,039; Aug. 23; v. 289; p. 792.
Snap-fasteners. Marshall Field & Company. No. 146,045; Aug. 23; v. 289; p. 793.
Syrups, molasses, glucose, &c. Nulomoline Company. No. 145,988; Aug. 23; v. 289; p. 789.
Tablet, Laxative. The Glandex Company, Inc. No. 145,954; Aug. 23; v. 289; p. 788.
Tablets, Laxative. J. M. Kappus. No. 145,972; Aug. 23; v. 289; p. 788.
Tanning materials. Harold M. McArthur & Co. No. 145,979; Aug. 23; v. 289; p. 788.
Textile fabrics. Tempest Waterproofing Corporation. No. 146,051; Aug. 23; v. 289; p. 794.
Thermometers. Philbern Thermometer Co. No. 145,992; Aug. 23; v. 289; p. 789.
Tires and treads therefor, Vehicle-. Goodyear Tire & Rubber Company. No. 146,033; Aug. 23; v. 289; p. 792.
Toilet, medicinal, and chemical preparations. A. N. Gaebler. No. 145,953; Aug. 23; v. 289; p. 787.
Toilet preparations. K. M. Quinlan. No. 145,997; Aug. 23; v. 289; p. 789.
Toilet preparations. Parfumerie Lournay, Inc. No. 145,990; Aug. 23; v. 289; p. 789.
Toilet preparations. V. Vivaudou, Inc. No. 146,013; Aug. 23; v. 289; p. 789.
Tonic. Cyco Medicine Co. No. 145,941; Aug. 23; v. 289; p. 787.
Toy cars for indoor or outdoor use, Hand-operated. Stoehrer & Pratt Dodgem Corporation. No. 146,007; Aug. 23; v. 289; p. 789.
Toys. Sté An. pour l'Exploitation de Jouets S. A. J. No. 146,006; Aug. 23; v. 289; p. 789.
Wardrobes. M. L. Himmel & Son. No. 146,035; Aug. 23; v. 289; p. 792.
Wardrobes. M. L. Himmel & Son. No. 146,037; Aug. 23; v. 289; p. 792.
Washing compound. E. L. Willson. Nos. 146,059; Aug. 23; v. 289; p. 795.
Water-heaters and heating-stoves, Gas. Lawson Manufacturing Company. No. 146,042; Aug. 23; v. 289; p. 793.
Waterproofing composition for fabrics. W. B. Price. No. 145,995; Aug. 23; v. 289; p. 789.
Witch-hazel cream. E. E. Hess Company. No. 145,962; Aug. 23; v. 289; p. 788.
Worsted and woolen fabrics in the piece. Holden-Leonard Company. No. 145,965; Aug. 23; v. 289; p. 788.

ALPHABETICAL LIST OF LABELS.

"A Lamp for Miners Invented by a Miner." (For Cartons for Miner's Lamp.) Shanklin Manufacturing Company. No. 23,239; Aug. 23; v. 289; p. 797.
"Abesco Cocoanut Oil." (For Cocoanut-Oil Shampoo.) Atlanta Barbers' Supply Co. No. 23,177; Aug. 23; v. 289; p. 796.
"Ace." (For Evaporated Milk.) Tri-State Milk Products Co. No. 23,241; Aug. 23; v. 289; p. 797.
"Allen Tire Case." (For Cases for Automobile-Tires.) Allen Auto Specialty Co. Nos. 23,172–5; Aug. 23; v. 289; p. 796.
"Bandoline." (For Preparations for Keeping the Hair in Wave or Curl.) Harriet Hubbard Ayer. No. 23,180; Aug. 23; v. 289; p. 796.
"Bath Salts." (For Preparations for Softening Bath-Water.) Harriet Hubbard Ayer. No. 23,184; Aug. 23; v. 289; p. 796.
"Beaver." (For Cartons Containing Jar-Rubbers.) United States Rubber Company. No. 23,244; Aug. 23; v. 289; p. 797.
"Billy Baxter." (For Bottles or Packages Containing Ginger-Ale.) Red Raven Corporation. No. 23,235; Aug. 23; v. 289; p. 797.
"Boyshform Brassiere." (For Cartons or Boxes Containing Brassières.) Boyshform Brassiere Co. No. 23,190; Aug. 23; v. 289; p. 796.

"Brach's Chocolates Assorted." (For Boxes and Containers Containing Candy.) E. J. Brach and Sons. No. 23,191; Aug. 23; v. 289; p. 796.
"Brach's Chocolate Covered Cherries in Cream." (For Candy.) E. J. Brach and Sons. No. 23,192; Aug. 23; v. 289; p. 796.
"Cadillac." (For Electric Washing-Machines and Wringers.) C. & D. Manufacturing Corporation. No. 23,193; Aug. 23; v. 289; p. 796.
"Candy Makers' Friend." (For a Flavoring Compound.) B. Heller & Co. No. 23,205; Aug. 23; v. 289; p. 796.
"Columbia Bell Ringer." (For Electric Batteries.) National Carbon Company, Inc. No. 23,228; Aug. 23; v. 289; p. 797.
"Columbia Exclusive Artist." (For Sound-Records of the Columbia Graphophone Company.) Columbia Graphophone Company. Nos. 23,194–5; Aug. 23; v. 289; p. 796.
"Concrete." (For Hosiery.) L. B. Scrwab. No. 23,238; Aug. 23; v. 289; p. 797.
"Depilatory." (For a Preparation for Removing Hair.) Harriet Hubbard Ayer. No. 23,187; Aug. 23; v. 289; p. 796.
"Eveready Bell Ringer." (For Electric Batteries.) National Carbon Company, Inc. No. 23,226; Aug. 23; v. 289; p. 797.
"Eveready Marine Lighting and Ignition Battery." (For Electric Batteries.) National Carbon Company, Inc. No. 23,225; Aug. 23; v. 289; p. 797.
"Eveready Motor Boat Battery." (For Electric Batteries.) National Carbon Company, Inc. No. 23,227; Aug. 23; v. 289; p. 797.
"Eye Lash and Brow Grower." (For a Preparation for Stimulating the Growth of the Eye Lashes and Brows.) Harriet Hubbard Ayer. No. 23,181; Aug. 23; v. 289; p. 796.
"Eyebrow Pencils." (For Preparations for Coloring the Eyebrows.) Harriet Hubbard Ayer. No. 23,183; Aug. 23; v. 289; p. 796.
"Face Cream." (For Preparations for Beautifying the Skin.) Harriet Hubbard Ayer. No. 23,179; Aug. 23; v. 289; p. 796.
"Flora Linen." (For Stationery, Tablets, Pound-Paper and Envelops.) B. Hopper. No. 23,206; Aug. 23; v. 289; p. 796.
"Fruits and Nuts." (For Boxes Containing Chocolate-Covered Fruits and Nuts.) Milwaukee Paper Box Company. No. 23,220; Aug. 23; v. 289; p. 797.
"Gardenia Soap." (For Toilet Soap.) Harriet Hubbard Ayer. No. 23,186; Aug. 23; v. 289; p. 796.
"Gillen's Malted Milk Chocolate and Toasted Almonds." (For Candy.) Gillen & Boney. No. 23,199; Aug. 23; v. 289; p. 796.
"Gold Seal." (For Cake.) United States Foil Company. No. 23,245; Aug. 23; v. 289; p. 797.
"Golden Rod." (For Bread.) Saniwax Paper Co. No. 23,237; Aug. 23; v. 289; p. 797.
"Grandma's Bread." (For Wax-Paper Bread-Wrappers.) Menasha Printing and Carton Company. No. 23,221; Aug. 23; v. 289; p. 797.
"Grandma's Cake." (For Cake.) Lantz Bros. Baking Co. No. 23,215; Aug. 23; v. 289; p. 797.
"Greysolon." (For Boxes Containing Hard-Center Chocolates.) Milwaukee Paper Box Company. No. 23,219; Aug. 23; v. 289; p. 797.
"Haydon's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,222; Aug. 23; v. 289; p. 797.
"Heller's Fancy Pastry Baking Powder." (For Receptacles Containing Heller's Fancy Pastry Baking-Powder.) B. Heller & Co. No. 23,202; Aug. 23; v. 289; p. 796.
"Hook 'Em Cow." (For Cigars.) J. C. Verhaag. No. 23,249; Aug. 23; v. 289; p. 797.
"Khels." (For Liver-Pills.) American Grocers Society. No. 23,176; Aug. 23; v. 289; p. 796.
"Konservirungs-Salt." (For a Preparation for Curing Meat, Fish, Fowl, and Game.) B. Heller & Co. No. 23,201; Aug. 23; v. 289; p. 796.
"Krownit." (For Hair-Tonic.) Melchior Supply Co. No. 23,217; Aug. 23; v. 289; p. 797.
"La Belle Coquette." (For Pomade.) Harriet Hubbard Ayer. No. 23,185; Aug. 23; v. 289; p. 796.
"Lavo-Kleen." (For Powder for Cleaning Closet-Bowls.) United States Supply Co. No. 23,247; Aug. 23; v. 289; p. 797.
"Le Flor De C. J. N." (For Cigars.) C. J. Nielsen's Sons. No. 23,232; Aug. 23; v. 289; p. 797.
"Lem-Mud." (For Jars Containing Facial Treatment.) A. J. Krank. No. 23,211; Aug. 23; v. 289; p. 797.
"Lemon Shampoo." (For Cartons Containing Bottles of Shampoo.) A. J. Krank. No. 23,212; Aug. 23; v. 289; p. 797.
"Lewis' Shave-Ease Creme." (For Shaving-Cream.) The Kreem-Ese Company. No. 23,213; Aug. 23; v. 289; p. 797.
"Liquid Nail Enamel." (For Enamel for the Nails.) Harriet Hubbard Ayer. No. 23,178; Aug. 23; v. 289; p. 796.
"McQuay-Norris Jiffy Grip Piston Rings." (For Piston-Rings.) McQuay-Norris Mfg. Co. No. 23,216; Aug. 23; v. 289; p. 797.
"Maryland Pride." (For Oleomargarin.) Baltimore Butterine Co. No. 23,188; Aug. 23; v. 289; p. 796.
"Mil-Malt." (For Malt Syrup.) Milwaukee Malting & Grain Co. No. 23,218; Aug. 23; v. 289; p. 797.
"No-Zo." (For Containers for an Antiseptic for Nose and Mouth.) C. A. Fowler. No. 23,197; Aug. 23; v. 289; p. 796.
"Oh! Please." (For Candy.) Val. Blatz Jr. Candy Co. No. 23,248; Aug. 23; v. 289; p. 797.
"Old Kentucky." (For Jelly-Roll.) United States Foil Company. No. 23,246; Aug. 23; v. 289; p. 797.
"$1 000.00 Guaranteed Bed Bug Killer." (For Cans Containing Bedbug-Killer.) B. Heller & Co. No. 23,200; Aug. 23; v. 289; p. 796.
"Oriental Liniment." (For a Liniment.) F. Rosin. No. 23,236; Aug. 23; v. 289; p. 797.
"Osborn's Apple Sauce." (For Apple Sauce.) New York Canners, Inc. No. 23,231; Aug. 23; v. 289; p. 797.
"Our-Own." (For Socks.) King & Company. No. 23,210; Aug. 23; v. 289; p. 797.
"People's Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,223; Aug. 23; v. 289; p. 797.
"Premex." (For Malt Syrup.) Premier Malt Products Co. of Ohio. No. 23,234; Aug. 23; v. 289; p. 797.
"Pure Tar Soap Shampoo." (For Preparations for Cleaning the Hair.) Harriet Hubbard Ayer. No. 23,182; Aug. 23; v. 289; p. 796.
"Quality First Louisiane Brand Klondykes." (For Strawberries.) T. F. Gessner. No. 23,198; Aug. 23; v. 289; p. 796.
"Queen." (For Bottles and Packages of Hair-Dressing.) Newbro Manufacturing Company. No. 23,230; Aug. 23; v. 289; p. 797.
"Queen of Paris." (For Cigars.) Paris Cigar Company. No. 23,233; Aug. 23; v. 289; p. 797.
"Rainbow." (For Cartons Containing Jar Rubbers.) United States Rubber Company. No. 23,243; Aug. 23; v. 289; p. 797.
"Red Stick Coffee." (For Coffee.) F. Danna. No. 23,196; Aug. 23; v. 289; p. 796.
"Santonex Compacted Face Powders." (For Receptacles and Packages Containing Compacted Face-Powders.) International Consolidated Chemical Corporation. No. 23,208; Aug. 23; v. 289; p. 796.
"Savon De Toilette Tokalon." (For Receptacles and Packages Containing Toilet Soap.) International Consolidated Chemical Corporation. No. 23,209; Aug. 23; v. 289; p. 797.
"16." (For Cards for a Game.) B. & T. Engineering and Sales Co. No. 23,189; Aug. 23; v. 289; p. 796.
"Smile." (For Roasted Coffee.) Smile Company. No. 23,240; Aug. 23; v. 289; p. 797.
"Sports." (For Hosiery.) H. I. Williams. No. 23,251; Aug. 23; v. 289; p. 797.
"Temptation Wine Grape Juice." (For Containers for Grape-Juice.) Interstate Products Co. No. 23,207; Aug. 23; v. 289; p. 796.
"The Cream of the Town Geo. K. Brown Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,224; Aug. 23; v. 289; p. 797.
"True Shape." (For Hosiery.) True Shape Hosiery Co. No. 23,242; Aug. 23; v. 289; p. 797.
"Two In One." (For Hair-Nets.) S. S. Kresge Co. No. 23,214; Aug. 23; v. 289; p. 197.
"Ward Baking Co.—Quality Cakes—Made Clean—100% Pure." (For Cakes.) Ward Baking Company. No. 23,250; Aug. 23; v. 289; p. 797.
"White Swan Washing Powder." (For a Preparation for Scrubbing and Cleaning Purposes.) B. Heller & Co. No. 23,204; Aug. 23; v. 289; p. 796.
"Y & S." (For Stick-Licorice, Licorice Losenges, and Licorice Wafers.) National Licorice Company. No. 23,229; Aug. 23; v. 289; p. 797.
"Zanzibar-Brand Cattle and Sheep Dip." (For a Preparation for Dipping Cattle and Sheep.) B. Heller & Co. No. 23,203; Aug. 23; v. 289; p. 796.

ALPHABETICAL LIST OF PRINTS.

"Blue Band Velvet Pencils." (For Advertising Lead-pencils.) American Lead Pencil Company. No. 5,694; Aug. 23; v. 289; p. 798.
"Clarke's Virgin Peanut Oil." (For Advertising Purposes for Peanut-Oil.) E. Clarke Co., The. No. 5,696; Aug. 23; v. 289; p. 798.
"Covo." (For Advertising Purposes for Vegetable Oils for Salads and for Cooking.) N. K. Fairbank Company, The. No. 5,699; Aug. 23; v. 289; p. 798.
"De Laval Cream Separators." (For Advertising Purposes for Cream-Separators.) The De Laval Separator Co. No. 5,698; Aug. 23; v. 289; p. 798.
"Dough-Boy." (For Advertising Purposes for Bread.) J. W. Rinehart. No. 5,709; Aug. 23; v. 289; p. 798.
"Fairy Soap." (For Advertising Purposes for Soaps.) The N. K. Fairbank Company. No. 5,700; Aug. 23; v. 289; p. 798.
"Famous Achievements." (For Advertising Purposes for Tires.) The Brunswick, Balke, Collender Co. No. 5,695; Aug. 23; v. 289; p. 798.
"Grape Nuts—Food for Sturdy Health." (For Advertising Purposes for Foods—Grape Nuts.) Postum Cereal Co. Inc. No. 5,708; Aug. 23; v. 289; p. 798.
"Heinz Vinegars, Pints, Quarts, Half-Gallons, Any Salad Dressing will be Better for the Use of These Vinegars." (For Advertising Purposes for Heinz Vinegars and Olive-Oil.) H. J. Heinz Co. No. 5,703; Aug. 23; v. 289; p. 798.
"Heinz Vinegars, Pints, Quarts, Half-Gallons in Bottles Filled and Sealed in the Heinz Establishment. These Fragrant, Piquant Vinegars." (For Advertising Purposes for Heinz Vinegars and Olive-Oils.) H. J. Heinz Co. No. 5,704; Aug. 23; v. 289; p. 798.
"Hotter Than Sunshine." (For Advertising Purposes for Coal.) United Fuel & Supply Company. No. 5,711; Aug. 23; v. 289; p. 798.
"Jabon de Afeitar de Williams." (For Advertising Purposes for Soap—Stick, Powder, Paste, Cream, and Liquid.) J. B. Williams Company. No. 5,712; Aug. 23; v. 289; p. 798.
"Lydia E. Pinkham's Vegetable Compound." (For Advertising Purposes for a Vegetable Compound Used for Medicinal Purposes.) Lydia E. Pinkham Medicine Co. No. 5,707; Aug. 23; v. 289; p. 798.
"The 1921 Neapolitan Jello." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company, The. No. 5,701; Aug. 23; v. 289; p. 798.
"The 1921 Strawberry Jell-O." (For Advertising Purposes for Jell-O, a Dessert Preparation.) Genesee Pure Food Company, The. No. 5,702; Aug. 23; v. 289; p. 798.
"There are No Substitutes for Dairy Products and Healthy Children." (For Advertising Purposes for Dairy Products.) National Dairy Council. No. 5,706; Aug. 23; v. 289; p. 798.
"Tiger-Foot Tires." (For Advertising Purposes for Tires.) The Standard Tire Co. No. 5,710; Aug. 23; v. 289; p. 798.
"Uncle Tom's Cabin." (For Advertising Purposes for Wheat Breakfast Food.) Cream of Wheat Co. No. 5,697; Aug. 23; v. 289; p. 798.
"Virginies—A Treat in Meat." (For Advertising Purposes for Canned Meat Pattles.) Acme Packing Co. No. 5,693; Aug. 23; v. 289; p. 798.
"Winecup." (For Advertising Purposes for Soft Drinks.) Monarch Bitters Co. No. 5,705; Aug. 23; v. 289; p. 798.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Agricultural and milling machinery. J. B. Sedberry. No. 146,401; Aug. 23; v. 289; p. 777.
Alcohol, Ethyl. U. S. Industrial Alcohol Co. No. 142,438; Aug. 23; v. 289; p. 765.
Alcohol, Non-beverage grain-. Geo. Wiedemann Company. No. 144,698; Aug. 23; v. 289; p. 771.
Anesthetic for use in painless extraction of teeth and in general surgery, Local. Dr. O. W. and Dr. L. O. Green. No. 139,031; Aug. 23; v. 289; p. 760.
Aprons, Bungalow. F. H. Spencer. No. 144,689; Aug. 23; v. 289; p. 770.
Auto-bodies, Chemical preparation for the removal of road-tar from. Solene Products Company. No. 139,681; Aug. 23; v. 289; p. 761.
Automobile, floor, &c., polish. D. D. Wolfrom. No. 133,440; Aug. 23; v. 289; p. 758.
Automobile tops, radiator-covers and curtains and cushions. Falls City Buggy Top Company. No. 146,701; Aug. 23; v. 289; p. 778.
Baker's machinery. Read Machinery Co. No. 144,589; Aug. 23; v. 289; p. 770.
Bathtubs, lavatories, toilets, &c., Porcelain enameled. Whiting-Mead Commercial Co. No. 137,985; Aug. 23; v. 289; p. 759.
Bed-springs. H. Schomer Company. No. 145,965; Aug. 23; v. 289; p. 774.
Bed-springs, mattresses, and pillows. Charles P. Rogers & Co. No. 146,335; Aug. 23; v. 289; p. 776.
Belting. B. F. Goodrich Company. No. 128,498; Aug. 23; v. 289; p. 754.
Beverages. Ohio Valley Bottling Works. No. 149,523; Aug. 23; v. 289; p. 785.
Beverages and syrup for making same. H. B. Bischoff. No. 149,673; Aug. 23; v. 289; p. 785.
Beverages and syrups for making same. A. C. Jewell. No. 150,195; Aug. 23; v. 289; p. 786.
Blankets made of a mixture of cotton and wool and all cotton, Bed-. W. S. Libbey Company. No. 137,843; Aug. 23; v. 289; p. 759.
Blouses, aprons, knitted leggings, bodices, pelisses, &c. Thornton & Mawby. No. 143,796; Aug. 23; v. 289; p. 768.
Boots and shoes. James A. Bannister Company. No. 146,249; Aug. 23; v. 289; p. 776.
Braces, extension-shoes, artificial limbs, &c., Deformity-. Chicago Orthopedic Appliance Company. No. 139,848; Aug. 23; v. 289; p. 761.
Bristles. Chesnutt, Cooper & Co. No. 148,125; Aug. 23; v. 289; p. 781.
Brushes, Lather-. Hardright Company. No. 140,886; Aug. 23; v. 289; p. 762.
Brushes, Lather-. Hardright Company. Nos. 140,888–9; Aug. 23; v. 289; p. 762.
Brushes, Lather-. Hardright Company. No. 140,891; Aug. 23; v. 289; p. 763.
Cabinets, Urinalysis. Du Bois Laboratories. No. 144,387; Aug. 23; v. 289; p. 769.
Calcareous composition for soil improvement. Security Cement & Lime Co. No. 141,242; Aug. 23; v. 289; p. 763.
Candy. Chocolate Truffles Co. No. 148,581; Aug. 23; v. 289; p. 783.
Candy. A. E. Perkins, Jr. No. 148,550; Aug. 23; v. 289; p. 783.
Candy in boxes. Harem Candy Co. No. 148,329; Aug. 23; v. 289; p. 782.
Canned vegetables. Inderrieden Canning Co. No. 148,146; Aug. 23; v. 289; p. 781.
Carbon-remover, Chemical. Chemical Reduction Co. No. 146,068; Aug. 23; v. 289; p. 775.
Carbureters, which are air-feeding devices in coal-burning furnaces. H. Swartz. No. 144,690; Aug. 23; v. 289; p. 770.
Cars, &c., Transmission apparatus, and explosion-motors for motor-. Minerva Motors. No. 139,214; Aug. 23; v. 289; p. 760.
Cartoons, Series of. E. Wheelan. No. 145,761; Aug. 23; v. 289; p. 773.
Casting battery parts, Molds for. E. J. Kukac. No. 144,288; Aug. 23; v. 289; p. 769.
Castings, Non-ferrous. Acme Die Casting Corporation. No. 139,927; Aug. 23; v. 289; p. 762.
Cement, Adhesive. H. A. Cook. No. 142,782; Aug. 23; v. 289; p. 766.
Cement, Adhesive. J. Goldstein. No. 142,437; Aug. 23; v. 289; p. 765.
Cement, Hydraulic and high-temperature. King Refractories Corporation. No. 148,229; Aug. 23; v. 289; p. 782.
Cement, Mending-. Hemmerdinger, L., & Co. No. 140,943; Aug. 23; v. 289; p. 763.
Cement, Patching-. P. C. Plasterer. No. 142,806; Aug. 23; v. 289; p. 766.
Chemical for removing dirt and stains. H. P. Spencer. No. 147,321; Aug. 23; v. 289; p. 779.
Chemicals, medicines, &c. Cooper & Cooper. No. 129,586; Aug. 23; v. 289; p. 754.
Chilli sauce, chilli con-carne, &c. Taylor Tamale Company. No. 133,170; Aug. 23; v. 289; p. 758.
Cigarettes. Balkan Sobranie Cigarettes Limited. No. 135,958; Aug. 23; v. 289; p. 759.
Cleanser for carpets, rugs, &c., Paste. Klenzal Co. No. 130,143; Aug. 23; v. 289; p. 755.
Cleansing and polishing fluid. Zip Products Company. No. 147,328; Aug. 23; v. 289; p. 779.
Coffee. C. A. Herink. No. 149,132; Aug. 23; v. 289; p. 785.
Coffee, Roasted. Young & Griffin Coffee Co. Inc. No. 148,358; Aug. 23; v. 289; p. 782.
Coffee, spices, mustard, fruit flavoring extract—namely, lemon. C. A. Murdock Mfg. Co. No. 148,158; Aug. 23; v. 289; p. 782.
Collets, thread-cutting dies and guides therefor, die-holders, &c. Union Twist Drill Company. No. 141,146; Aug. 23; v. 289; p. 763.
Colors, Coal-tar. Society of Chemical Industry in Basle. No. 135,870; Aug. 23; v. 289; p. 758.
Conveyers and conveying machinery and parts thereof. Alvey-Ferguson Company. No. 117,918; Aug. 23; v. 289; p. 752.
Corn, Cracked. Chas. A. Krause Milling Co. No. 131,974; Aug. 23; v. 289; p. 757.
Corn, Popping. E. D. Bradshaw. No. 148,790; Aug. 23; v. 289; p. 784.
Corrugated-fiber packages, folding boxes, and paper boxes. J. M. Baffel Co. No. 139,225; Aug. 23; v. 289; p. 761.
Cotton, &c., piece goods. Everett, Heaney & Company. No. 134,811; Aug. 23; v. 289; p. 758.
Cough medicines. J. F. Allison. No. 147,888; Aug. 23; v. 289; p. 780.
Cream, Beauty-. W. T. Green. No. 148,064; Aug. 23; v. 289; p. 781.
Cream, Cold-. S. M. Baltsly. No. 145,429; Aug. 23; v. 289; p. 772.
Cream for beautifying the skin. M. F. Stamos. No. 141,694; Aug. 23; v. 289; p. 763.
Cream, Massage and tissue. (Mrs.) C. M. Lamping-Nolan. No. 145,788; Aug. 23; v. 289; p. 773.
Cream-separators, shears, trowels, tinners' shears, clothes-washers, &c. Hibbard, Spencer, Bartlett & Co. No. 145,686; Aug. 23; v. 289; p. 772.
Cream, Vanishing. Harriet Hubbard Ayer. No. 146,852; Aug. 23; v. 289; p. 777.
Disinfectants. Glidden Company. No. 144,568; Aug. 23; v. 289; p. 770.
Doll beds and cribs. Michigan Wire Goods Co. No. 139,862; Aug. 23; v. 289; p. 762.
Drawers, pajamas, union-suits, undershirts, &c. Oppenheim, Oberndorf & Co. No. 143,830; Aug. 23; v. 289; p. 769.
Dresses, Children's. Brohman Company. No. 147,186; Aug. 23; v. 289; p. 779.
Drills, drill-sharpeners, drill-bits, and parts thereof, Rock-. Denver Rock Drill Manufacturing Company. No. 146,167; Aug. 23; v. 289; p. 776.
Drills, Twist-. Detroit Twist Drill Company. No. 147,095; Aug. 23; v. 289; p. 779.
Dyes. Newport Chemical Works. No. 140,739; Aug. 23; v. 289; p. 762.
Embalming fluid, Arterial and cavity. Undertakers Fluid Co. No. 144,551; Aug. 23; v. 289; p. 770.
Embroideries or embroidered articles. Rechsteiner Embroidery Company. No. 147,795; Aug. 23; v. 289; p. 780.
Fertilizers. American Agricultural Chemical Company. No. 142,461; Aug. 23; v. 289; p. 765.
Fertilizers. Coe-Mortimer Company. No. 144,707; Aug. 23; v. 289; p. 771.
Fertilizers. Fisheries Products Co. Inc. No. 142,615; Aug. 23; v. 289; p. 766.
Fertilizers. Michigan Humus & Chemical Company. No. 147,493; Aug. 23; v. 289; p. 780.
Fertilizers. U. S. Industrial Chemical Co. No. 148,958; Aug. 23; v. 289; p. 784.
Fire-extinguishers, Hand-operated, portable, and stationary. Foamite Firefoam Company. No. 146,116; Aug. 23; v. 289; p. 775.

Flour, Self-rising. Hesel Milling Company. No. 143,167; Aug. 23; v. 289; p. 767.
Flour, Self-rising wheat-. City Mills Company. No. 149,126; Aug. 23; v. 289; p. 784.
Flour, Wheat-. H. C. Cole Milling Co. No. 139,732; Aug. 23; v. 289; p. 761.
Flour, Wheat-. Goode & Dunkle. No. 144,138; Aug. 23; v. 289; p. 769.
Fruits, Fresh citrus. Sebring Citrus Growers Association. No. 148,625; Aug. 23; v. 289; p. 783.
Fur coats, capes, wraps, neck-pieces, &c. Safchik & Co. No. 145,369; Aug. 23; v. 289; p. 772.
Furniture-polish. G. Fisher. No. 138,714; Aug. 23; v. 289; p. 760.
Garments, Infants' sleeping-. Merit Baby Wear Company. No. 144,732; Aug. 23; v. 289; p. 771.
Garters, belts for personal wear, suspenders, and armbands. Wilson Brothers. No. 145,733; Aug. 23; v. 289; p. 773.
Garters, suspenders, belts for personal wear, and armbands. Wilson Brothers. No. 145,731; Aug. 23; v. 289; p. 773.
Gas-intake deflectors and gaskets, Combination. M. B. Eaton. No. 143,688; Aug. 23; v. 289; p. 768.
Gas, Natural. J. C. Whitfield. No. 145,760; Aug. 23; v. 289; p. 773.
Glass, cleansing and polishing liquid. H. T. Prange. No. 148,672; Aug. 23; v. 289; p. 784.
Gloves and mittens, Leather. Joseph N. Eisendrath Company. No. 146,001; Aug. 23; v. 289; p. 775.
Hair grower and tonic, facial cream, shampoo, &c. Lulu E. Morris. No. 146,385; Aug. 23; v. 289; p. 777.
Hair or wool, Animal. J. Ephraimson. No. 146,114; Aug. 23; v. 289; p. 775.
Hair-tonic. S. A. Johnson. No. 145,330; Aug. 23; v. 289; p. 772.
Heels and tread-lifts therefor, Metal. Cinderella Heel Corporation. No. 144,848; Aug. 23; v. 289; p. 771.
Hose, dredging-sleeves, and machinery packing. B. F. Goodrich Company. No. 149,897; Aug. 23; v. 289; p. 786.
Hosiery. Junior Hosiery Company. No. 146,122; Aug. 23; v. 289; p. 776.
Hosiery. Pittsburgh Dry Goods Company. No. 142,099; Aug. 23; v. 289; p. 764.
Hosiery. Pittsburgh Dry Goods Company. No. 145,707; Aug. 23; v. 289; p. 773.
Ice-cream. Tri-State Ice Cream Corporation. No. 149,302; Aug. 23; v. 289; p. 785.
Ice picks and tongs, milk-can carriers, &c. Bessiere & Company. No. 122,964; Aug. 23; v. 289; p. 753.
Incubators, brooders, and galvanized hovers, Chicken. Queen Incubator Company. No. 147,308; Aug. 23; v. 289; p. 779.
Indicating and recording instruments for use in effecting fuel saving. Uehling Instrument Co. No. 136,773; Aug. 23; v. 289; p. 759.
Ingots of non-ferrous metal. Keystone Die Casting Co. No. 139,581; Aug. 23; v. 289; p. 761.
Insect-powders. El-Kay Co. No. 148,138; Aug. 23; v. 289; p. 781.
Insecticides, Liquid. John Paterson & Co. No. 126,333; Aug. 23; v. 289; p. 753.
Indicators of revolution, speed-indicators, &c. Edmond Jaeger. No. 118,734; Aug. 23; v. 289; p. 753.
Knife-grinders, scissors-sharpeners, &c. Stewart-Skinner Company. No. 131,671; Aug. 23; v. 289; p. 757.
Ladders, Folding. Tuckaway Folding Ladder Co. No. 144,602; Aug. 23; v. 289; p. 770.
Leads for use in mechanical pencils. Wahl Company. No. 128,122; Aug. 23; v. 289; p. 754.
Leather material, Imitation-. B. Kay. No. 148,659; Aug. 23; v. 289; p. 783.
Liniment. J. M. Jacobs. No. 146,120; Aug. 23; v. 289; p. 776.
Liniment. Dr. Earl S. Sloan Incorporated. No. 143,896; Aug. 23; v. 289; p. 769.
Liquid compound for toilet use. John Paterson & Co. No. 126,332; Aug. 23; v. 289; p. 753.
Machines, their parts and accessories, and tools used in the manufacture of boots and shoes. United Shoe Machinery Corporation. No. 141,542; Aug. 23; v. 289; p. 763.
Magazine, Monthly. United Publishing Company. No. 149,303; Aug. 23; v. 289; p. 785.
Magazine publication, Monthly. Buffalo Society of Natural Sciences. No. 143,151; Aug. 23; v. 289; p. 767.
Malt extracts. H. Krauss. No. 148,233; Aug. 23; v. 289; p. 785.
Malt extracts. A. Wielich. No. 140,974; Aug. 23; v. 289; p. 763.
Mattresses. Sanitary Mattress Company. No. 138,641½; Aug. 23; v. 289; p. 760.
Medical compound for treatment of indigestion or dyspepsia. Sharp & Dohme. No. 146,188; Aug. 23; v. 289; p. 776.
Medical preparation for black tongue, sore mouth, and distemper. Southern Veterinary Remedies Company. No. 144,475; Aug. 23; v. 289; p. 769.
Medicinal preparations for affections of the eye. W. H. Rutland. No. 117,783; Aug. 23; v. 289; p. 752.
Medicinal tablets for colds. T. W. Penny. No. 145,966; Aug. 23; v. 289; p. 774.
Medicinal tablets to relieve headache, neuralgia, migraine, &c. M. A. Cohen. Nos. 144,849–50; Aug. 23; v. 289; p. 771.
Medicine used in the treatment of gonorrhea. C. Gekas. No. 145,016; Aug. 23; v. 289; p. 771.
Medicines for the treatment of cancer, External. D. B. O'Neal. No. 146,233; Aug. 23; v. 289; p. 776.
Medicines for treatment of congested liver, indigestion, &c., Hog. Swiantox Company. No. 146,398; Aug. 23; v. 289; p. 777.
Medicines for treatment of indigestion, dyspepsia, rheumatism, neuralgia, &c. Globe Drug Company. No. 147,344; Aug. 23; v. 289; p. 779.
Medicines used as a tonic. American Drug Company. No. 145,612; Aug. 23; v. 289; p. 774.
Metal kettles, pots, pans, skillets, griddles, &c. Metal and Alloy Specialties Company. No. 142,264; Aug. 23; v. 289; p. 765.
Mirrors and picture-frames, Hand-. Newark Tortoise Shell Novelty Co. No. 147,527; Aug. 23; v. 289; p. 780.
Mirrors and picture-frames, Hand and wall. Tuskeloid Company. No. 140,688; Aug. 23; v. 289; p. 762.
Mirrors and picture-frames, Hand and wall. Tuskeloid Company. No. 140,695; Aug. 23; v. 289; p. 762.
Moccasins. G. H. Bass & Company. No. 145,308; Aug. 23; v. 289; p. 772.
Motor-hoists, Pneumatic. Ingersoll-Rand Company. No. 146,769; Aug. 23; v. 289; p. 778.
Mucilage, paste, and sealing-wax. Pomeroy Ink Manufacturing Co. No. 131,501; Aug. 23; v. 289; p. 757.
Neckwear, Ladies'. Richardson Dry Goods Co. No. 132,364; Aug. 23; v. 289; p. 757.
Newspaper-section. Dispatch Publishing Company, The. Nos. 147,713–14; Aug. 23; v. 289; p. 780.
Newspapers. News Syndicate Co. No. 147,568; Aug. 23; v. 289; p. 780.
Oils and greases, Lubricating. J. Dunn, Son & Co. No. 141,765; Aug. 23; v. 289; p. 764.
Oils and greases, Lubricating. Puritan Oil and Soap Company. No. 143,947; Aug. 23; v. 289; p. 769.
Oils, Motor-lubricating. Jewett & Sowers Oil Co. No. 131,636; Aug. 23; v. 289; p. 757.
Oils with or without medication. De Vilbiss Manufacturing Co. No. 145,884; Aug. 23; v. 289; p. 774.
Ointment, Dandruff-. M. Bass. No. 146,951; Aug. 23; v. 289; p. 778.
Ointment for skin diseases. Christman Ointment Co. No. 146,108; Aug. 23; v. 289; p. 775.
Ointment for skin eruptions. O. E. Palmer. No. 145,704; Aug. 23; v. 289; p. 773.
Ointment having medicinal properties. D. A. Flood. No. 142,211; Aug. 23; v. 289; p. 764.
Ointment in salve form. Dr. L. O. Green. No. 139,035; Aug. 23; v. 289; p. 760.
Ointment, Skin-. Vantex Chemical Company. No. 133,032; Aug. 23; v. 289; p. 758.
Ovens, Bake-. G. S. Blodgett Company. Nos. 149,907–8; Aug. 23; v. 289; p. 786.
Packing, Sheet-. Babbitt Steam Specialty Co.. No. 111,984; Aug. 23; v. 289; p. 752.
Paints and painters' enamels, stains, fillers, putty, &c., Paste and liquid. H. J. Kuhn. No. 142,442; Aug. 23; v. 289; p. 765.
Pamphlets and bound publications, cards, &c. H. C. Cowdrey. No. 130,582; Aug. 23; v. 289; p. 756.
Paper drinking-cups. United States Envelope Company. No. 122,095; Aug. 23; v. 289; p. 753.
Pencils, Machine for impressing inscriptions on. L. Bodor. No. 145,815; Aug. 23; v. 289; p. 774.
Percale dress goods in the piece. Carson, Pirie, Scott & Co. No. 116,739; Aug. 23; v. 289; p. 752.
Perfumes, toilet waters, creams, face, talcum, and sachet powders, rouges. J. W. Beavan. No. 148,117; Aug. 23; v. 289; p. 781.
Perfumes, toilet waters, lotions, brilliantines, &c. A. Gravier. Nos. 147,345–6; Aug. 23; v. 289; pp. 779–80.
Periodical, Monthly. Philadelphia Operative Builders Association. No. 148,239; Aug. 23; v. 289; p. 782.
Piano-benches. Tonk Manufacturing Co. No. 141,813; Aug. 23; v. 289; p. 764.
Pigments, &c. Cooper & Cooper. No. 130,580; Aug. 23; v. 289; p. 756.
Pills. H. C. Jarvis. No. 143,761; Aug. 23; v. 289; p. 768.
Poison, Rodent-. Enoz Chemical Company. No. 145,773; Aug. 23; v. 289; p. 773.
Poultry food. G. F. Givan. No. 143,595; Aug. 23; v. 289; p. 767.
Powder, Baking-. Royal Baking Powder Company. No. 143,708; Aug. 23; v. 289; p. 768.
Preparation for making hair lie flat against the head. Nelson & McLeod. No. 146,228; Aug. 23; v. 289; p. 776.
Preparation for treatment of diseases peculiar to females. F. J. Hart. No. 142,075; Aug. 23; v. 289; p. 764.
Preparation for treatment of headache, neuralgia, cold, &c. York Drug Store. No. 148,188; Aug. 23; v. 289; p. 782.
Preparation for the treatment of rheumatism, neuralgia, lumbago, &c. B. Kite. No. 138,445; Aug. 23; v. 289; p. 760.
Preparation of the casein or protein of milk. Mead, Johnson & Co. No. 148,740; Aug. 23; v. 289; p. 784.

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Preparation sold in capsules for the treatment of headaches. A. G. Roy. No. 146,084; Aug. 23; v. 289; p. 775.
Preparations for promoting the growth of the hair. J. A. Neal. No. 146,231; Aug. 23; v. 289; p. 776.
Publications, Monthly. A. M. Collins Manufacturing Company. No. 148,060; Aug. 23; v. 289; p. 781.
Pumps, drag-saws, &c. Mill and Mine Supply Co. No. 133,868; Aug. 23; v. 289; p. 758.
Quinin, Epsom salts, castor-oil, cough-syrup, salt, baking-powder, and bluing. Consolidated Companies Inc. No. 145,995; Aug. 23; v. 289; p. 775.
Razors. John Engstrom, Jr., Co. No. 146,288; Aug. 23; v. 289; p. 776.
Rolling stock and parts thereof, automobiles, &c. Marburg Brothers. No. 135,323; Aug. 23; v. 289; p. 758.
Rope, Lariat-. Portland Cordage Co. No. 150,466; Aug. 23; v. 289; p. 786.
Rouge and face-powder. V. Vivaudou, Inc. No. 148,856; Aug. 23; v. 289; p. 782.
Rubber sponges. G. W. Beldam. No. 130,786; Aug. 23; v. 289; p. 756.
Rugs, blankets, couch and bed covers, &c. F. C. Huych & Sons. No. 143,605; Aug. 23; v. 289; p. 767.
Salve for boils, bruises, &c. Butler-Diesteikamp-Stock Chemical Co. No. 143,082; Aug. 23; v. 289; p. 767.
Saws and machine-knives. T. F. Shurly Co. No. 139,552; Aug. 23; v. 289; p. 761.
Shirts, Men's Silk Dress-. A. Chanovits. No. 141,851; Aug. 23; v. 289; p. 764.
Shirts, undergarments, hosiery, &c., Dress and negligée. Wilson Brothers. No. 145,752; Aug. 23; v. 289; p. 773.
Shock and shock and rebound absorbers, tire and wheel carrying attachments for automobiles, fenders, &c. Bayne Manufacturing Company. No. 108,187; Aug. 23; v. 289; p. 751.
Shoe-polish. W. M. Gibbs. No. 149,079; Aug. 23; v. 289; p. 784.
Shoes, Fabric, rubber, rubber-composition, and leather. Shaft-Pierce Shoe Co. No. 137,045; Aug. 23; v. 289; p. 759.
Shoes. Leather. J. J. Daly. No. 145,324; Aug. 23; v. 289; p. 772.
Showcases. M. L. Himmel & Son. No. 138,642; Aug. 23; v. 289; p. 760.
Signs, Raised glass letters, characters, and devices generally for illuminating. Flexlume Sign Company. No. 146,700; Aug. 23; v. 289; p. 778.
Silk and muslin underwear, Ladies'. M. Paulson. No. 146,843; Aug. 23; v. 289; p. 778.
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Soaps, Solid and liquid toilet, &c. Lincoln-Ray Manufacturing Co. No. 143,504; Aug. 23; v. 289; p. 767.
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Strapping for bails, wooden boxes, &c., and metallic fastening-seals for said strapping, Metal. Signode System, Inc. No. 100,827; Aug. 23; v. 289; p. 751.
Suits and coats, Misses' and Juniors'. Kanner, Marks & Traurig. No. 140,237; Aug. 23; v. 289; p. 762.
Suits and trousers, Men's, women's, and boys'. Lieberman Manufacturing Co. No. 146,448; Aug. 23; v. 289; p. 777.
Suits, dresses, skirts, coats, &c., for women, misses, children, and infants. Little Duchess Dress Co. Inc. Nos. 142,512–3; Aug. 23; v. 289; p. 766.
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Sweaters. Ideal Linen Mesh Co. No. 145,897; Aug. 23; v. 289; p. 774.
Syrup, Cough-. Moore Company. No. 146,645; Aug. 23; v. 289; p. 777.
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Table-cloths, sheets, napkins, &c. American Purchasing Corporation. No. 132,876; Aug. 23; v. 289; p. 757.
Tables, chairs, and stools. Bessire & Company. No. 122,963; Aug. 23; v. 289; p. 753.
Talcum and face powders, perfume, toilet water. Or-Blos-Co. No. 143,700; Aug. 23; v. 289; p. 768.
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Toilet preparation used as a face-pack. A. Knapp. No. 130,369; Aug. 23; v. 289; p. 756.
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Treatment of chills. C. Johnston. No. 139,718; Aug. 23; v. 289; p. 761.
Undergarments, Ladies'. Bu-Tl-Maid Petticoat & Pettipants Co. No. 142,916; Aug. 23; v. 289; p. 767.
Underwear for men, women, and children, Wool and cotton. Pittsburgh Dry Goods Company. No. 142,098; Aug. 23; v. 289; p. 764.
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Vehicles, Springs for. Sheldon Axle & Spring Co. No. 145,921; Aug. 23; v. 289; p. 774.
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Veterinary preparations. Carolina Remedies Company. No. 148,433; Aug. 23; v. 289; p. 783.
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Worsted trimming for use in art-needlework. Lorimer, Greenbaum Co. No. 138,577; Aug. 23; v. 289; p. 760.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 23, 1921.

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292— 262: 1,388,229
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293— 55: 1,388,432
294— 78: 1,388,482
296— 28: 1,388,250
84: 1,388,214
95: 1,388,199
97: 1,388,446
140: 1,388,425
145: 1,388,370
298— 21: 1,388,372
299— 36: 1,388,510
68: 1,388,440
301— 9: 1,388,605
1,388,665
21: 1,388,197
33: 1,388,196
48: 1,388,679
133: 1,388,695
302— 28: 1,388,185
305— 3: 1,388,750
13: 1,388,737
306— 33: 1,388,475
1,388,539

C

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 30TH DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adams, George C. and W. F., San Francisco, Calif. Bottle-capping machine. No. 1,389,111; Aug. 30; v. 289; p. 859.
Adams, William F. (See Adams, George C. and W. F.)
Adelson, Samuel L., New York, N. Y. Incandescent-lamp lock. No. 1,389,112; Aug. 30; v. 289; p. 859.
Adler, Philip, assignor of one-half to Chris Uebersetzig, Madison, Wis. Aeroplane driving mechanism. No. 1,389,471; Aug. 30; v. 289; p. 931.
Aimes, W. B., and G. H. T. Schaefer, Atchison, Kans. Display apparatus. No. 1,389,177; Aug. 30; v. 289; p. 873.
Alexander, Robert H., Willington Quay, and T. Graham, Sunderland, England. Ship's davit. No. 1,389,338; Aug. 30; v. 289; p. 905.
Alexander, William T., *et al.* (See Torrey, Charles L., assignor.)
Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,389,472; Aug. 30; v. 289; p. 931.
Allan, William N., San Antonio, Tex. Vehicle-wheel. No. 1,389,473; Aug. 30; v. 289; p. 931.
Alldredge, Francis B., Des Moines, Iowa. Detachable-end bailer. No. 1,389,023; Aug. 30; v. 289; p. 842.
Allen, Charles J., Moorestown, N. J. Agricultural implement. No. 1,389,113; Aug. 30; v. 289; p. 859.
Allen, Herbert C., Richmond, Va. Etching-machine. No. 1,389,284; Aug. 30; v. 289; p. 894.
Allen, Thomas W., Hoquiam, Wash. Gear and key puller. No. 1,388,839; Aug. 30; v. 289; p. 805.
Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
Allmand, John T., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Windshield-wiper. No. 1,388,911; Aug. 30; v. 289; p. 819.
Alloy Parts Manufacturing Company, The. (See Naugle, Harry M., assignor.)
Alloys & Products, Inc. (See Hecht, H., and Black, assignors.)
Alphaero Engines (Foreign Patents) Limited. (See Houston, Percival T., assignor.)
Alschuler, Ernest, St. Louis, Mo., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Switch. No. 1,389,088; Aug. 30; v. 289; p. 855.
Althoff, August W., Oklahoma, Okla. Vehicle-wheel. No. 1,389,285; Aug. 30; v. 289; p. 894.
Ambrose, Nicholas, *et al.* (See Johnston, James A., assignor.)
American Brake Company, The. (See Burton, Thomas L., assignor.)
American Button & Fastener Company. (See Elliott, William E., assignor.)
American Dressler Tunnel Kilns. (See Wilputte, Louis, assignor.)
American Laundry Machinery Company, The. (See Waream, C. E., and Benjamin, assignors.)
American Motor Body Company. (See Lambert, A. L., and Bell, assignors.)
American Motor Body Company. (See Dryer, George W., assignor.)
American Radio & Research Corporation. (See Bush, Vannevar, assignor.)
American Thermophone Company. (See de Lange, P., and van Lynden, assignors.)
American Thermophone Company. (See van Lynden, Robert A. B., assignor.)
Anderson, Carl E., Worcester, Mass. Lock. No. 1,389,339; Aug. 30; v. 289; p. 905.
Anderson, Emil F., Chicago, Ill., assignor to International Harvester Company. Straw-rack. No. 1,388,912; Aug. 30; v. 289; p. 819.
Anderson, Fred. (See Watkins, J. M., and Anderson.)
Anderson, Jalmer, Burkburnett, Tex. Valve structure. No. 1,389,474; Aug. 30; v. 289; p. 932.
Anderson, John N., Chicago, Ill. Phonograph. No. 1,389,089; Aug. 30; v. 289; p. 855.
Anderson, Kristoffer A., Hartford, Conn. Means for securing dies in forging apparatus. No. 1,389,286; Aug. 30; v. 289; p. 894.
Anderson, Robert J., Sidney, Ohio. Washing-machine. No. 1,389,091; Aug. 30; v. 289; p. 855.
Anderson, Robert J., Sidney, Ohio. Washing-machine tub. No. 1,389,090; Aug. 30; v. 289; p. 855.
Angier, Edward H., Framingham, Mass. Preparing tires for shipment or storage. No. 1,388,840; Aug. 30; v. 289; p. 805.
Arner, Paul A., Allentown, Pa. Child's coaster. No. 1,389,418; Aug. 30; v. 289; p. 921.
Arntz, Fred B. (See Backhaus, A. A., and Arntz.)
Asprooth, Axel Hj, Rockford, Ill., assignor to Cotta Transmission Company, Rockford, Ill. Change-speed gearing. No. 1,389,287; Aug. 30; v. 289; p. 894.
Atkinson, William F., Bakersfield, Calif. Tire-tool. No. 1,389,114; Aug. 30; v. 289; p. 860.
Avey Drilling Machine Company, The. (See Mirrielees, James F., assignor.)
Backhaus, A. A., Baltimore, and F. B. Arentz, Curtis Bay, Md., assignors to U. S. Industrial Alcohol Co. Making aldehydes. No. 1,388,841; Aug. 30; v. 289; p. 805.
Bacon, Frank, Bayside, N. Y. Portable burglar-alarm. No. 1,389,178; Aug. 30; v. 289; p. 873.
Bagg, Hollis B., Watertown, assignor to Scovill Manufacturing Co., Waterbury, Conn. Spring. No. 1,388,913; Aug. 30; v. 289; p. 820.
Baldwin, Nathaniel, East Mill Creek, Utah. Pneumatic tire. No. 1,389,024; Aug. 30; v. 289; p. 843.
Barnes, Ansley, Waterville, Me. Cable-tightener. No. 1,389,475; Aug. 30; v. 289; p. 932.
Barron, W. L., New York, N. Y., and F. E. Osol, Elizabeth, N. J., assignors to The Singer Manufacturing Company. Sewing-machine. No. 1,388,914; Aug. 30; v. 289; p. 820.
Barry, Edward H. (See Smith, B. L., Barry, and Boetteher.)
Barry, Gerald G., Chicago, Ill. Metal wheel. No. 1,389,179; Aug. 30; v. 289; p. 873.
Barry, Joseph, Sharon, Pa. Curtain-stretcher. No. 1,389,431; Aug. 30; v. 289; p. 922.
Bassick Manufacturing Company, The. (See Fesler, Douglas F., assignor.)
Bassisty, Michael, New York, N. Y. Automatic hand embroidering-machine. No. 1,389,115; Aug. 30; v. 289; p. 860.
Baster, Harry C., Benton Harbor, Mich. Loose-leaf filing system or posting-tray. No. 1,389,116; Aug. 30; v. 289; p. 860.
Bauer & Black. (See Sharp, William H., assignor.)
Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Arctic-upper-stamping machine. No. 1,388,842; Aug. 30; v. 289; p. 805.
Beach, Sylvester J., Portland, Me. Optical instrument. No. 1,389,092; Aug. 30; v. 289; p. 856.
Beall, Benjamin R., Kansas City, Mo. Treating excelsior. No. 1,389,340; Aug. 30; v. 289; p. 905.
Beard, James R. (See Hunter, P. V., and Beard.)
Beattie Manufacturing Company, The. (See Beattie, Walter J., assignor.)
Beattie, Walter J., assignor to The Beattie Manufacturing Company, Cohoes, N. Y. Folding-machine. No. 1,389,117; Aug. 30; v. 289; p. 860.
Beauchamp, Virgil L., Evanston, Ill. Powder-box. No. 1,389,288; Aug. 30; v. 289; p. 895.
Becker, Benjamin V., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)
Beeman, Archibald C., Oklahoma, Okla. Extension for handles. No. 1,389,477; Aug. 30; v. 289; p. 932.
Behncke, David L., Chicago, Ill. Aerial-photograph map. No. 1,388,915; Aug. 30; v. 289; p. 820.
Bell, Alfred. (See Lambert, A. L., and Bell.)
Belpedio, Jobby, Bridgeport, Conn. Talking-machine. No. 1,389,478; Aug. 30; v. 289; p. 932.
Benbow, James D., assignor to Western Wheeled Scraper Company, Aurora, Ill. Dust-guard for car-axles. No. 1,389,289; Aug. 30; v. 289; p. 895.
Benjamin, Dana H. (See Waream, C. E., and Benjamin.)
Bennett, Robert H., Washington, D. C. Illumination-light. No. 1,389,180; Aug. 30; v. 289; p. 873.
Benson, Jacob, Bristol, Conn. Key-cabinet. No. 1,389,181; Aug. 30; v. 289; p. 873.
Berg, Olaf, *et al.* (See Koch, Georg, assignor.)
Bergeron, Joseph D., Iberville, Quebec, Canada. Snow-plow. No. 1,389,118; Aug. 30; v. 289; p. 861.
Bergman, Julius. (See Cole, D., and Bergman.)
Bergren, John A., Lake Park, Minn. Gang-plow. No. 1,389,479; Aug. 30; v. 289; p. 932.
Berman, Frank, Oregon, Wis. Attachment for hospital-beds. No. 1,389,480; Aug. 30; v. 289; p. 933.
Bernstein, William, Jamaica Plain, assignor to Panther Rubber Manufacturing Company, Stoughton, Mass. Tread. No. 1,389,025; Aug. 30; v. 289; p. 843.
Berry, Thomas W. (See Houk, C. V., and Berry.)

Beth, Wilhelm F. L., Lübeck, Germany. Shaking device for cleaning filters. No. 1,389,481; Aug. 30; v. 289; p. 933.

Beth, Wilhelm F. L., Lübeck, Germany. Air or gas filter. No. 1,389,482; Aug. 30; v. 289; p. 933.

Betz, William G., assignor to Straube Piano Company, Hammond, Ind. Piano-action. No. 1,389,290; Aug. 30; v. 289; p. 895.

Beudet, Maurice. (See Koetschet, J., and Beudet.)

Biesmeyer, Lorenz F., and O. Stocksick, Chamois, Mo. Resilient-tire-casing filler. No. 1,388,843; Aug. 30; v. 289; p. 805.

Biggs, Charles A., Regina, Saskatchewan, Canada. Apple-feeding device. No. 1,388,916; Aug. 30; v. 289; p. 820.

Billingsley, Rennie E., San Antonio, Tex. Rotary plow. No. 1,389,484; Aug. 30; v. 289; p. 933.

Billingsley, Rennie E., San Antonio, Tex. Rotary plow-share. No. 1,389,483; Aug. 30; v. 289; p. 933.

Binder, Gottlob, Palmyra, N. J. Rotary washing-machine. No. 1,389,182; Aug. 30; v. 289; p. 874.

Black, David G. (See Hecht, H., and Black.)

Blair, Robert S., South Orange, N. J. Musical instrument and record therefor. No. 1,389,236; Aug. 30; v. 289; p. 884.

Blaisdell, Jennie G., West Somerville, Mass. Circuit-controller for liquid-gages. No. 1,389,485; Aug. 30; v. 289; p. 934.

Blake, Eli J., Buffalo, N. Y., assignor to Hall Switch & Signal Co. System of speed control. No. 1,388,917; Aug. 30; v. 289; p. 820.

Block, Alexander, New York, N. Y. Typewriter. No. 1,389,237; Aug. 30; v. 289; p. 884.

Blood, Bryant H., Hartford, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Linear-measuring machine. No. 1,389,341; Aug. 30; v. 289; p. 905.

Blood, Harold L., Plainfield, assignor to Niles-Bement-Pond Company, Jersey City, N. J. Planer and system of motor control therefor. No. 1,389,342; Aug. 30; v. 289; p. 905.

Boehm, Wenzel, Swissvale; H. S. Corey, Munhall, and L. A. Lambing, Pittsburgh, Pa. Tar-burner. No. 1,389,563; Aug. 30; v. 289; p. 949.

Boettcher, Arthur H. (See Smith, B. L., Barry, and Boettcher.)

Bock Bearing Company, The. (See Flaherty, John F., assignor.)

Bone, Evan P., Cincinnati, Ohio. Headlamp. No. 1,389,291; Aug. 30; v. 289; p. 895.

Bornhauser, Otto E. (See Schwer, G. A., and Bornhauser.)

Boston Auto Gage Company. (See Gregory, G. P., and MacKelvie, assignors.)

Bowman, Robert L., Knoxville, Tenn. Elastic, automatic, adjustable blasting-shell. No. 1,389,292; Aug. 30; v. 289; p. 895.

Bradford, Charles M., Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Softening apparatus. No. 1,388,844; Aug. 30; v. 289; p. 806.

Brainard, Osceola D., Great Falls, Mont. Automatic gage. No. 1,389,432; Aug. 30; v. 289; p. 923.

Brandt, Edmund S. R., Newport, R. I. Torpedo. No. 1,388,918; Aug. 30; v. 289; p. 820.

Branen, Edward F., Sr., Elgin, Ill. Making tire-fillers. No. 1,389,093; Aug. 30; v. 289; p. 856.

Brennan, William J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,388,845; Aug. 30; v. 289; p. 805.

Brewer, Joseph, New York, N. Y. Wire and drill gage. No. 1,389,486; Aug. 30; v. 289; p. 934.

Brewer, Lester P. (See Lochhead, E. C., and Brewer.)

Bridwell, William E., Los Angeles, Calif. Locality-finder for maps and the like. No. 1,389,293; Aug. 30; v. 289; p. 896.

Briggs, Ella E., St. Louis, Mo. Attachment for typewriters. No. 1,389,419; Aug. 30; v. 289; p. 921.

Brightman, Samuel D. (See Rosenthal, S., and Brightman.)

Brilliant, Abraham, Boston, Mass. Compound tool for watchmakers. No. 1,389,119; Aug. 30; v. 289; p. 861.

Brock, Edward L., administrator. (See Brock, Matthias.)

Brock, Matthias, deceased, Boston, Mass., by E. L. Brock, administrator, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Staple making and driving machine. No. 1,388,846; Aug. 30; v. 289; p. 806.

Bromley, John, & Sons. (See Grundy, James A., assignor.)

Brookins, Andrew J., Chicago, Ill. Train-control apparatus. No. 1,389,094; Aug. 30; v. 289; p. 856.

Broslus, Edgar E., Pittsburgh, Pa. Charging apparatus for annealing-furnaces. No. 1,389,238; Aug. 30; v. 289; p. 884.

Brophy, John P., Cleveland, Ohio. Driving mechanism for automatic machines. No. 1,389,433; Aug. 30; v. 289; p. 924.

Brunnert, Anton, Old Monroe, Mo. Farm implement. No. 1,388,847; Aug. 30; v. 289; p. 806.

Browder, Benjamin F. (See Smith, M. J., and Browder.)

Buchanan, John W., assignor of one-half to G. E. Sanford, Boston, Mass. Typewriter. No. 1,389,120; Aug. 30; v. 289; p. 861.

Buff, Jacob, Jersey City, N. J. Steam-condenser for clothes-presses. No. 1,389,434; Aug. 30; v. 289; p. 924.

Bugbee, Niles Company. (See King, Rufus, assignor.)

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bit-brace. No. 1,388,920; Aug. 30; v. 289; p. 821.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,929; Aug. 30; v. 289; p. 823.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Brace-head. No. 1,388,928; Aug. 30; v. 289; p. 822.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,927; Aug. 30; v. 289; p. 822.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,926; Aug. 30; v. 289; p. 822.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bit-brace handle. No. 1,388,925; Aug. 30; v. 289; p. 822.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Bit-brace handle. No. 1,388,924; Aug. 30; v. 289; p. 822.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,923; Aug. 30; v. 289; p. 821.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Brace-head. No. 1,388,922; Aug. 30; v. 289; p. 821.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Brace-head. No. 1,388,921; Aug. 30; v. 289; p. 821.

Bullard, Edwin W., Whitneyville, assignor to Winchester Repeating Arms Co., New Haven, Conn. Ratchet mechanism. No. 1,388,919; Aug. 30; v. 289; p. 821.

Burgess, Edward W., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Tillage implement. No. 1,388,930; Aug. 30; v. 289; p. 823.

Burke, Edward F., assignor of one-fourth to J. M. Lichty, Sioux City, Iowa. Wrecking-tool. No. 1,389,183; Aug. 30; v. 289; p. 874.

Burke, Joseph P. (See Pirdun, L., and Burke.)

Burnen, Bernard C., New York, N. Y. Valve-lifter. No. 1,389,504; Aug. 30; v. 289; p. 949.

Burnett, Charley, Washington Court House, Ohio. Hog-oiler. No. 1,389,435; Aug. 30; v. 289; p. 924.

Burrage, George B., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)

Burton, Thomas L., assignor to The American Brake Company, St. Louis, Mo. Brake-beam suspension. No. 1,389,121; Aug. 30; v. 289; p. 861.

Bury, Ernest. (See Jones, F. B., and Bury.)

Busch-Sulzer Bros.-Diesel Engine Company. (See Hantschke, Paul, assignor.)

Bush, Vannevar, Chelsea, assignor to American Radio & Research Corporation, Medford, Mass. Radio receiving system. No. 1,389,026; Aug. 30; v. 289; p. 843.

Butler, Edith, Mercer, Pa. Sand-box. No. 1,389,544; Aug. 30; v. 289; p. 945.

Cadgene, Ernest, *et al.* (See Koch, Georg, assignor.) (Reissue.)

Calkin, Benjamin H. and F. L., Detroit, Mich.; said Benjamin H. Calkin assignor to said F. L. Calkin. Coffee-percolator. No. 1,389,239; Aug. 30; v. 289; p. 895.

Calkin, Frances L. (See Calkin, Benjamin H. and F. L.)

Cameron, William J., Chicago, Ill. Retractor. No. 1,389,436; Aug. 30; v. 289; p. 924.

Campaigne, William T. D., Spooner, Wis. Wheel-flange oiler. No. 1,389,420; Aug. 30; v. 289; p. 927.

Canfield, John A., Danbury, Conn. Coin-adding machine. No. 1,389,122; Aug. 30; v. 289; p. 861.

Canion, William G., Glen Burnie, Md., assignor to The National Manufacturing Company. Demountable rim. No. 1,389,123; Aug. 30; v. 289; p. 862.

Carlson, Frederick E. (See Lamb, J. F., and Carlson.)

Carpenter, Linn E., East Orange, N. J., and E. E. Eldredge, Sidney, assignors to Phenix Cheese Company, New York, N. Y. Swiss cheese and sterilising the same. No. 1,389,095; Aug. 30; v. 289; p. 856.

Carter, Willis M., Jersey City, N. J., assignor to The W. F. Powers Company, New York, N. Y. Tire-display support. No. 1,388,848; Aug. 30; v. 289; p. 806.

Casey, Thomas W., Yonkers, N. Y., assignor to National Pneumatic Company, Chicago, Ill. Support for third rails. No. 1,389,124; Aug. 30; v. 289; p. 862.

Cassel, Gunnar E., Stockholm, Sweden, assignor to Arthur Leffler Djursholm, Sweden. Adjustable wrench. No. 1,389,487; Aug. 30; v. 289; p. 934.

Celler, Arthur, assignor of one-half to T. B. Oneill, Brooklyn, N. Y. Combined scraper and chopper. No. 1,388,931; Aug. 30; v. 289; p. 823.

Centervall, Hugo, Brooklyn, N. Y. Aerial torpedo. No. 1,388,932; Aug. 30; v. 289; p. 823.

Central Railway Signal Company. (See Dutcher, Frank, assignor.)

Chappell, Arthur E., Chicago, Ill. Surfacing-machine. No. 1,389,125; Aug. 30; v. 289; p. 862.

Chappell, Frank L., Cleveland, Ohio. Roof-ladder fire-escape. No. 1,389,096; Aug. 30; v. 289; p. 856.

Chicago Railway Signal and Supply Company. (See McCarthy, Daniel J., assignor.)

Cholick, Joseph J., Rio Honde, Tex. Attachment for tractors. No. 1,389,488; Aug. 30; v. 289; p. 934.

Chubb, Lewis W., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrical precipitating system. No. 1,389,126; Aug. 30; v. 289; p. 862.

Churchward, Jack, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Welding cast iron. No. 1,389,476; Aug. 30; v. 289; p. 932.

Cincinnati Butchers' Supply Company, The. (See Schmidt, Charles G., and O. C., assignors.)

Cincinnati Butchers' Supply Company, The. (See Schmidt, Oscar C., assignor.)

Cinema Patents Company. (See Teitel, Albert, assignor.)

Claffey, Thomas J., *et al.* (See Johnston, James A., assignor.)

Clark, Mary A. L., Boston, Mass. Tone-guide for singers. No. 1,389,240; Aug. 30; v. 289; p. 885.

Clefton, Claud J., assignor, by mesne assignments, of one-half to Guy J. Clefton, Owatonna, Minn. Cooking utensil. No. 1,389,241; Aug. 30; v. 289; p. 885.

Clefton, Guy J. (See Clefton, Claud J., assignor.)

Clement, Alvah W., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Alloy. No. 1,389,097; Aug. 30; v. 289; p. 856.

Cleveland Brass Manufacturing Company, The. (See Clement, Alvah W., assignor.)

Cleveland Brass Manufacturing Company, The. (See Glekler, John T., assignor.)

Click, Walter E., assignor to The Godfrey Conveyer Company, Elkhart, Ind. Track-joint. No. 1,389,545; Aug. 30; v. 289; p. 946.

Cohn, Irwin, Stroudsburg, assignor to Exeloid Company of Pennsylvania, East Stroudsburg, Pa. Soap-bubble pipe. No. 1,389,098; Aug. 30; v. 289; p. 857.

Coffee, James C., Webb City, Mo. Automatic oiler. No. 1,389,489; Aug. 30; v. 289; p. 934.

Coffey, John, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stitched buttonhole. No. 1,389,027; Aug. 30; v. 289; p. 843.

Colburn, Albert L., New Haven, Conn. Direct-reading micrometer-caliper. No. 1,389,028; Aug. 30; v. 289; p. 843.

Cole, David, and J. Bergman, El Paso, Texas. Method and plant for storing and averaging materials. No. 1,389,184; Aug. 30; v. 289; p. 874.

Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Chair-iron. No. 1,389,186; Aug. 30; v. 289; p. 874.

Collier, David R., assignor to Collier-Keyworth Company, Gardner, Mass. Combined school desk and seat. No. 1,389,185; Aug. 30; v. 289; p. 874.

Collier-Keyworth Company. (See Collier, David R., assignor.)

Collier, William H., Sandusky, Ohio. Starter, lights, and alarm control device for automobiles, &c. No. 1,388,933; Aug. 30; v. 289; p. 824.

Combine, Macklin K. (See Stewart, O. E., and Combine.)

Connecticut Electric Clock Company, The. (See Greenleaf, William H., assignor.)

Consolidated Car Heating Company. (See Hynes, Lee P., assignor.)

Consolidated Paper and Box Manufacturing Company. (See Kusterer, Aloysius J., assignor.)

Constant, Napoleon, Manchester, N. H. Bearing. No. 1,389,127; Aug. 30; v. 289; p. 862.

Continental Motors Corporation. (See Olson, Charles W., assignor.)

Conwell, Samuel H., Chicago, Ill., assignor to W. P. Murphy, New York, N. Y. Metal end structure for railway-cars. No. 1,388,849; Aug. 30; v. 289; p. 807.

Cook, Eugene F., Richmond Heights, Mo. Piston. No. 1,389,099; Aug. 30; v. 289; p. 857.

Cook, G. L., and J. F. Schmider, assignors to Mack-Miller Candle Company, Syracuse, N. Y. Sanctuary-lamp. No. 1,389,490; Aug. 30; v. 289; p. 935.

Cook, Thomas R., Pittsburgh, assignor to Westinghouse Union Battery Company, Swissvale, Pa. Storage battery. No. 1,388,850; Aug. 30; v. 289; p. 807.

Coons, Jacob S., Taylorsville, N. C. Row-marker. No. 1,389,491; Aug. 30; v. 289; p. 935.

Conn, C. G., Ltd. (See Gulick, Edward J., assignor.)

Cordes, Herman J., San Francisco, Calif. Stop for drawers. No. 1,388,851; Aug. 30; v. 289; p. 807.

Corey, Howard S. (See Boehm, W. Corey, and Lambing.)

Corrigan, Clyde S., Norwood, Ohio. Power-shovel for use in mines to load coal and ore into cars. No. 1,389,421; Aug. 30; v. 289; p. 921.

Cosgrove, John W., Medford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Lasting-machine. No. 1,388,852; Aug. 30; v. 289; p. 807.

Cotta Transmission Company. (See Asprooth, Axel Hj., assignor.)

Couch, Loyal A., New York, N. Y. Fuel-heater for internal-combustion engines. No. 1,389,029; Aug. 30; v. 289; p. 843.

Cowdrick, Hiram O., Philadelphia, Pa. Artificial tooth. No. 1,389,030; Aug. 30; v. 289; p. 844.

Crevasse, H., *et al.* (See Dunbar, Thomas E., assignor.)

Cumming, Thomas, Los Angeles, Calif. Jewelry-setting. No. 1,389,031; Aug. 30; v. 289; p. 844.

Curtis, George V., West Springfield, Mass. Universal joint. No. 1,389,422; Aug. 30; v. 289; p. 921.

Curth, Ralph C., Columbus, Ohio. Electric iron. No. 1,389,032; Aug. 30; v. 289; p. 844.

Cuthbert, John, Company. (See Cuthbert, J., and Nielsen, assignors.)

Cuthbert, John, and J. J. Nielsen; said Cuthbert assignor of his right to John Cuthbert Company, Chicago, Ill. Panel-board structure and branch-block units. No. 1,389,343; Aug. 30; v. 289; p. 906.

Cutler-Hammer Mfg. Co. (See Lightfoot, Edwin N., assignor.)

Daval Rubber Company. (See Raiche, Paul A., assignor.)

Davenport, Thomas C., New Haven, Conn. Grease-cup. No. 1,389,437; Aug. 30; v. 289; p. 924.

Davie, John M., Cleveland, Ohio. Adjustable reamer and boring-tool. No. 1,389,492; Aug. 30; v. 289; p. 935.

Davies, William B. (See Lazarus, M., and Davies.)

Davis, Albert C., Bootle, England. Refrigerator-door. No. 1,389,423; Aug. 30; v. 289; p. 921.

Davis, Henry P., New York, N. Y. Auto-window frame. No. 1,389,033; Aug. 30; v. 289; p. 844.

Davis, Richard H., Davenport, Iowa. Attachment for planer or similar machines. No. 1,388,853; Aug. 30; v. 289; p. 807.

Davis, Robert E., El Paso, Tex. Dirigible headlight. No. 1,389,493; Aug. 30; v. 289; p. 935.

Davis Sewing Machine Company, The. (See Lewis, Elmer M., assignor.)

Dean, Harry B., assignor of one-half to J. D. Howe, Upland, Calif. Artificial honeycomb. No. 1,389,294; Aug. 30; v. 289; p. 896.

Dean, William W., Stamford, Conn., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition-generator. No. 1,389,034; Aug. 30; v. 289; p. 844.

De Brun, Frank H., Chicago, Ill., assignor to The Necedah Manufacturing Corporation, Necedah, Wis. Power-plant mounting. No. 1,389,424; Aug. 30; v. 289; p. 922.

De La Mare, Thomas, Tooele, Utah. Concrete mold or form. No. 1,389,128; Aug. 30; v. 289; p. 863.

De Lange, P., and R. A. Baron van Lynden, Utrecht, Netherlands, assignors, by mesne assignments, to American Thermophone Company, Boston, Mass. Thermic telephone-transmitter. No. 1,389,242; Aug. 30; v. 289; p. 885.

Dell, Albert, assignor of one-half to T. C. Ulmer, Philadelphia, Pa. Windshield-cleaner. No. 1,389,129; Aug. 30; v. 289; p. 863.

De Mattia, Barthold, Clifton, N. J. Apparatus for making pneumatic tires. No. 1,389,442; Aug. 30; v. 289; p. 925.

De Mattia, Barthold, Clifton, N. J. Collapsible core. No. 1,389,441; Aug. 30; v. 289; p. 925.

De Mattia, Barthold, Clifton, N. J. Collapsible core. No. 1,389,440; Aug. 30; v. 289; p. 925.

De Mattia, Peter, Clifton, N. J. Collapsible core and chuck. No. 1,389,438; Aug. 30; v. 289; p. 925.

De Mattia, Peter, Clifton, N. J. Collapsible core. No. 1,389,439; Aug. 30; v. 289; p. 925.

Dennis, Samuel K., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Straddle-row cultivator. No. 1,388,934; Aug. 30; v. 289; p. 824.

De Olaneta, Harold, assignor to Winchester Repeating Arms Company, New Haven, Conn. Dry cell. No. 1,388,990; Aug. 30; v. 289; p. 835.

De Tamble, Edward S., Chicago, Ill., assignor to Racine Accessories Manufacturing Co., Racine, Wis. Pedal-cap. No. 1,388,935; Aug. 30; v. 289; p. 824.

De Tolna, Rudolf F., New York, N. Y. Charting apparatus for ships. No. 1,389,295; Aug. 30; v. 289; p. 896.

De Vigan, André F., Detroit, Mich. Headlight attachment. No. 1,389,243; Aug. 30; v. 289; p. 885.

Dezendorf, Richard L., Richmond Hill, N. Y. Means for clearing service-pipes or ejecting liquids. No. 1,388,854; Aug. 30; v. 289; p. 808.

Di Salvo, Joseph, Chicago, Ill. Bumper-bar and support therefor. No. 1,389,344; Aug. 30; v. 289; p. 906.

Dolling, Thomas H., La Junta, Colo. Beet-harvester. No. 1,388,991; Aug. 30; v. 289; p. 836.

Donisthorpe, Horace St. J. de A., London, England. Radio telegraphic and telephonic apparatus. No. 1,388,936; Aug. 30; v. 289; p. 824.

Dorey, Leon L., Hamilton, Ontario, Canada. Headlight for automobiles. No. 1,389,035; Aug. 30; v. 289; p. 844.

Dow, Herbert H., assignor to The Dow Chemical Company, Midland, Mich. Removing water of crystallization from magnesium chlorid. No. 1,389,546; Aug. 30; v. 289; p. 946.

Dow Chemical Company, The. (See Dow, Herbert H., assignor.)

Drakes Limited. (See Walker, Alexander, assignor.)

Dryer, George W., Gardiner, N. Y., assignor, by mesne assignments, to American Motor Body Company, Detroit, Mich. Car-seat. No. 1,389,130; Aug. 30; v. 289; p. 863.

Dunbar, Thomas E., assignor of one-half to H. Crevasse and J. L. Hogan, Lakeland, Fla. Demountable rim. No. 1,389,345; Aug. 30; v. 289; p. 906.

Duncan, Thomas C., Kansas City, Mo. Agricultural-implement frame. No. 1,389,296; Aug. 30; v. 289; p. 896.

Dupont, Lucien, Vincennes, assignor to himself and Societe Darrasse Frères, Paris, France. Process for the manufacture of valerianic acid and of alkaline valerianates. No. 1,389,187; Aug. 30; v. 289; p. 875.

Dusseau, Maurice G., assignor of one-twentieth to D. A. McDaniel, Los Angeles, Calif. Universal joint. No. 1,389,297; Aug. 30; v. 289; p. 897.

Dutcher, Frank, Versailles, assignor to Central Railway Signal Company, Pittsburgh, Pa. Railway signal-torpedo. No. 1,389,494; Aug. 30; v. 289; p. 935.

Dutton, Oscar B., Baxter Springs, Kans. Fishing-tool. No. 1,388,992; Aug. 30; v. 289; p. 836.

Dzikoski, Józef, Warrior Run, Pa. Nut-lock. No. 1,388,937; Aug. 30; v. 289; p. 825.

Earnshaw, Margaret W., Glencoe, Ill. Flexible garment-fastener. No. 1,389,131; Aug. 30; v. 289; p. 863.
Edison, Thomas A., Jr., Burlington, N. J. Suction-feed. No. 1,389,425; Aug. 30; v. 289; p. 922.
Edwards, William E., assignor to The Hydraulic Pressed Steel Company, Cleveland, Ohio. Slising-machine. No. 1,389,036; Aug. 30; v. 289; p. 845.
Een, Johannes B., Voss, Norway. Joint-closure. No. 1,389,557; Aug. 30; v. 289; p. 848.
Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright. Liquid-measuring pump. No. 1,389,547; Aug. 30; v. 289; p. 946.
Eger, Ernst, Detroit, Mich., assignor to Morgan & Wright. Pump and similar apparatus. No. 1,389,548. Aug. 30; v. 289; p. 946.
Eldredge, Elmer E. (See Carpenter, L. E., and Eldredge.)
Electrical Improvements Limited. (See Hunter, P. V., and Beard, assignors.)
Elliott, Norman, Cleveland, Ohio. Lamp for vehicles. No. 1,389,037; Aug. 30; v. 289; p. 845.
Elliott, William E., Grand Rapids, Mich., assignor to American Button & Fastener Company. Package of buttons. No. 1,389,188; Aug. 30; v. 289; p. 875.
Elliott, William Y., Deer Lodge, Mont. Harrow. No. 1,388,993; Aug. 30; v. 289; p. 836.
Enders, Hugo, Lehighton, Pa. Dissolving-shutter for cameras. No. 1,388,938; Aug. 30; v. 289; p. 825.
Erwin, W. M., and W. F. Stretch, Hanford, Calif. Automobile-radiator cap. No. 1,389,495; Aug. 30; v. 289; p. 936.
Erickson, Charles F., Wetmore, Kans. Windmill. No. 1,388,994; Aug. 30; v. 289; p. 836.
Esch, Paul H., Manitowoc, Wis. Smoking-stand. No. 1,389,038; Aug. 30; v. 289; p. 845.
Estes, Marshall A., Estes, Va. Air-compressor. No. 1,389,039; Aug. 30; v. 289; p. 845.
Exeloid Company of Pennsylvania. (See Cohn, Irwin, assignor.)
Fahrenwald, Frank A., Cleveland, Ohio. Synthesizing ammonia in the presence of a catalytic alloy. No. 1,388,995; Aug. 30; v. 289; p. 837.
Fair, James F., Doby Springs, Okla. Attachment for automobiles. No. 1,388,996; Aug. 30; v. 289; p. 837.
Fairbanks, Morse & Co. (See Peter, Alfred, assignor.)
Fak, Ciril, Bush, Ill. Tire-rim for vehicles. No. 1,389,496; Aug. 30; v. 289; p. 936.
Farmer, Roy E., Los Angeles, Calif. Coffee-percolator. No. 1,389,298; Aug. 30; v. 289; p. 897.
Fenton, William T., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)
Ferr, Henry, Mason City, Iowa. Attachment for oil-stoves. No. 1,389,497; Aug. 30; v. 289; p. 936.
Fesler, Douglas F., Evanston, assignor to The Bassick Manufacturing Company, Chicago, Ill. Lubricating device. No. 1,388,939; Aug. 30; v. 289; p. 825.
Fertig, James A. (See Gorman, J. B., and Fertig.)
Fetterly, John F., Altoona, Pa. Drilling-jig. No. 1,389,569; Aug. 30; v. 289; p. 950.
Feuerheerd, Ernest, Walton, England. Rotary motor or pump. No. 1,389,189; Aug. 30; v. 289; p. 875.
Finch, Joda, Great Neck, N. Y. Automobile attachment. No. 1,388,940; Aug. 30; v. 289; p. 825.
Fischer, Howard L., St. Paul, Minn. Pencil. No. 1,389,426; Aug. 30; v. 289; p. 922.
Fisher, Alfred, Chicago, Ill. Steel-furnace. No. 1,389,346; Aug. 30; v. 289; p. 906.
Fisher, Alva J., Evanston, assignor to Hurley Machine Company, Chicago, Ill. Washing-machine heater. No. 1,388,941; Aug. 30; v. 289; p. 825.
Firestone Tire & Rubber Company. (See Stevens, W. C., and Steele, assignors.)
Flaherty, John F., assignor to The Bock Bearing Company, Toledo, Ohio. Roller-bearing. No. 1,389,040; Aug. 30; v. 289; p. 845.
Flint, Charles, Menominee, Mich. Kindling-burner. No. 1,389,427; Aug. 30; v. 289; p. 922.
Flint, James A., Denver, Colo., assignor to the Government of the United States. Torpedo. No. 1,389,190; Aug. 30; v. 289; p. 875.
Fokker, Anthony H., Amsterdam, Netherlands. Rotatable armor-plate for the protection of the coolers of flying-machines. No. 1,389,558; Aug. 30; v. 289; p. 848.
Fordyce, Rufus G., assignor to Radium Dial Company, Pittsburgh, Pa. Luminous article. No. 1,388,855; Aug. 30; v. 289; p. 808.
Fowler, William E., Jr., Pittsburgh, Pa., assignor to Liberty Steel Products Company, Inc. Brake-beam fulcrum. No. 1,389,041; Aug. 30; v. 289; p. 846.
Fox, Ansley H., assignor to Ansley H. Fox Company, Philadelphia, Pa. Machine-gun. No. 1,388,856; Aug. 30; v. 289; p. 808.
Fox, Ansley H., Company. (See Fox, Ansley H., assignor.)
Franklin, Edward J. (See White, J. H., and Franklin.)
Free, John W., Woodlawn, assignor to Jones & Laughlin Steel Company, Pittsburgh, Pa. Means for stacking sheet material. No. 1,389,244; Aug. 30; v. 289; p. 886.
Freed, Tilghman A. (See Leitch, James T., assignor.)
Freedline, David, Brooklyn, N. Y. Condiment-holder. No. 1,389,443; Aug. 30; v. 289; p. 926.
Fridgen, Michael A., Vining, Minn. Chain-fastener. No. 1,389,498; Aug. 30; v. 289; p. 936.
Fuller Brush Company, The. (See Hagstrom, Albert G., assignor.)
Fuller, Franz A., Newark, N. J. Dip-tank with automatic cover. No. 1,388,942; Aug. 30; v. 289; p. 825.
Gaertner, Moritz, New York, N. Y. Means for transporting oil by water. No. 1,389,245; Aug. 30; v. 289; p. 886.
Galavan, Edward, assignor to A. L. Randall Co., Chicago, Ill. Illuminated liquid-container. No. 1,389,132; Aug. 30; v. 289; p. 863.
Gardiner, Edwin S., New Orleans, La. Drip-coffee. No. 1,389,299; Aug. 30; v. 289; p. 897.
Gardiner, William C., Barnstaple, England. Control device applicable to aircraft, marine steering-gear, and other apparatus. No. 1,389,847; Aug. 30; v. 289; p. 907.
Garman, Harry B., Detroit, Mich., assignor to Charles E. Thompson, Cleveland, Ohio. Driving mechanism. No. 1,389,042; Aug. 30; v. 289; p. 846.
Garns, Victor D. (See Spink, C. H., and Garns.)
Gartling, George, Los Angeles, Calif. Cable-pump. No. 1,389,428; Aug. 30; v. 289; p. 923.
Gasche, Ferdinand G., Chicago, Ill. Machine for perfecting ingots. No. 1,389,300; Aug. 30; v. 289; p. 897.
Gatchell, George S., Roselle Park, N. J., assignor to The Singer Manufacturing Company. Needle-guard for sewing-machines. No. 1,388,943; Aug. 30; v. 289; p. 826.
Geesman, Wilbur H., Youngstown, and A. G. McKee, Cleveland, Ohio. Method of and means for burning air and gas. No. 1,388,944; Aug. 30; v. 289; p. 826.
General Electric Company, The. (See Harvey, Charles H., assignor.)
Gerlach, Fred, *et al.*, trustees. (See Steward, John F., assignor.)
Gerlach, Stephan G., Stratford, Conn. Automobile-lock. No. 1,389,499; Aug. 30; v. 289; p. 936.
Gilbert, James F., and T. Neville, Seward, Alaska. Water-cooling construction for welding-torches. No. 1,389,301; Aug. 30; v. 289; p. 897.
Giles, David J. and J. E., McKeesport, Pa. Extracting tungsten and similar metals from their ores. No. 1,388,857; Aug. 30; v. 289; p. 808.
Giles, James E. (See Giles, David J., and J. E.)
Gilman, Willard H., assignor, by mesne assignments, to J. A. McVickar, New York, N. Y. Recording and reproducing mechanism for phonographs. No. 1,389,430; Aug. 30; v. 289; p. 923.
Gilman, Willard H., assignor, by mesne assignments, to John A. McVickar, New York, N. Y. Recording and reproducing attachment for phonographs. No. 1,389,429; Aug. 30; v. 289; p. 923.
Glasner, Rudolph W., Chicago, Ill. Interlacing-machine. No. 1,389,043; Aug. 30; v. 289; p. 846.
Gleason, Frederick H., New York, N. Y. Means for lubricating steering-knuckles of vehicles. No. 1,388,945; Aug. 30; v. 289; p. 826.
Glekler, John T., assignor to The Cleveland Brass Manufacturing Company, Cleveland, Ohio. Heat-resisting alloy. No. 1,389,133; Aug. 30; v. 289; p. 864.
Godfrey Conveyor Company. (See Click, Walter E., assignor.)
Goldschmidt, Victor M., assignor to Titan Co., A/S Christiania, Norway. Titanium pigment and its production. No. 1,389,191; Aug. 30; v. 289; p. 875.
Goldstein, Louis. (See Halpern, L. N., and Goldstein.)
Goodman, Frank O., Chicago, Ill. Device for elevating wall-molds. No. 1,389,044; Aug. 30; v. 289; p. 846.
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodrich, E. H., and H. C. Martinelli, Springfield, Mass. Motion-picture reel. No. 1,389,500; Aug. 30; v. 289; p. 936.
Goold, Luella L., assignor to Semi-Unit Corporation of Arlington, Mass. Hypodermic syringe. No. 1,388,946; Aug. 30; v. 289; p. 826.
Gorman, J. B., and J. A. Fertig, Wentworth, Mo. Drill-sharpener. No. 1,389,501; Aug. 30; v. 289; p. 937.
Government of the United States. (See Smith, B. L., Barry, and Boettcher, assignors.)
Government of the United States. (See Flint, James A., assignor.)
Graham, Thomas. (See Alexander, R. H., and Graham.)
Gregory, G. P., and H. MacKelvie, assignors to Boston Auto Gage Company, Boston, Mass. Gage. No. 1,389,246; Aug. 30; v. 289; p. 886.
Green, Warren T., St. Louis, Mo., assignor to The Mengel Company, Louisville, Ky. Toy vehicle. No. 1,389,502; Aug. 30; v. 289; p. 937.
Greenleaf, William H., assignor to The Connecticut Electric Clock Company, Hartford, Conn. Time-controlled mechanism. No. 1,388,858; Aug. 30; v. 289; p. 808.
Greer, Benjamin J., Poynor, Tex. Wire-stretcher. No. 1,389,045; Aug. 30; v. 289; p. 846.
Greer, James, Hoboken, N. J. Device for heating switches and the like. No. 1,388,997; Aug. 30; v. 289; p. 837.
Gries, William, Newark, N. J. Antiskid tire-chain. (Reissue.) No. 15,183; Aug. 30; v. 289; p. 951.
Griffiths, James P., Durban, South Africa. Coding and decoding device. No. 1,389,559; Aug. 30; v. 289; p. 848.
Grosswege, John B., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Manually-operated circuit-crossing switch. No. 1,389,134; Aug. 30; v. 289; p. 864.

Grundy, James A., assignor to John Bromley & Sons, Incorporated, Philadelphia, Pa. Dyeing-machine. No. 1,389,444; Aug. 30; v. 289; p. 926.
Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Apparatus for calibrating and justifying parts of wind musical instruments. No. 1,389,348; Aug. 30; v. 289; p. 907.
Gysel, Max E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controlling device for brush-holder mechanisms. No. 1,389,137; Aug. 30; v. 289; p. 864.
H. P. Patents and Processes Company. (See Hochstetter, Frederick W., assignor.)
Hadaway, William S., Jr., New Rochelle, N. Y. Heater and heat insulation. No. 1,389,192; Aug. 30; v. 289; p. 875.
Hagstrom, Albert G., East Hartford, Conn., assignor to The Fuller Brush Company, Hartford, Conn. Trimmer. No. 1,389,302; Aug. 30; v. 289; p. 898.
Hake, Charles F., Jr., and A. Mill, Sr., Cincinnati, Ohio; said Mill assignor to said Hake. Machine for forming can-bodies. No. 1,389,349; Aug. 30; v. 289; p. 907.
Hall Switch & Signal Co. (See Blake, Eli J., assignor.)
Halpern, L. N., and L. Goldstein, New York, N. Y. Combination dental film-mount and diagnosis-sheet. No. 1,388,947; Aug. 30; v. 289; p. 826.
Hambuechen, Carl, Belleville, Ill., assignor, by mesne assignments, to National Carbon Company, Inc., Cleveland, Ohio. Hand-lamp. No. 1,388,948; Aug. 30; v. 289; p. 827.
Hamilton, Charles S., Cumberland, Md. Tire-chain. No. 1,389,503; Aug. 30; v. 289; p. 937.
Hamilton, John R., Yonkers, N. Y. Chemical fire-extinguishing apparatus. No. 1,388,998; Aug. 30; v. 289; p. 837.
Hango, Alexander, Portland, Oreg. Air-regulator for automobiles. No. 1,388,999; Aug. 30; v. 289; p. 837.
Hanson, Earl C., Los Angeles, Calif., assignor to Title Insurance and Trust Company. Audio-frequency wireless for-signal system. No. 1,388,949; Aug. 30; v. 289; p. 827.
Hardin, Reyno L., Blackwell, Okla. Windshield. No. 1,389,549; Aug. 30; v. 289; p. 946.
Hardsocg Wonder Drill Company. (See Turner, Thomas, assignor.)
Hare, Charles N., Lima, Ohio. Ocean compressed-air power. No. 1,389,445; Aug. 30; v. 289; p. 926.
Hare, Fred M., Kiefer, Okla. Sand-shield for oil-wells. No. 1,389,550; Aug. 30; v. 289; p. 947.
Harlow, George, Altrincham, England, assignor to Westinghouse Electric and Manufacturing Company. Reactance-coil. No. 1,389,193; Aug. 30; v. 289; p. 876.
Harris, Henry H., Peru, Ind. Heating-stove. No. 1,389,194; Aug. 30; v. 289; p. 876.
Harris, John, Lakewood, Ohio. Machine for cutting and welding with fluid fuel. No. 1,389,046; Aug. 30; v. 289; p. 846.
Harrison, Jerome G., Philadelphia, Pa. Lifting-jack. No. 1,389,504; Aug. 30; v. 289; p. 937.
Hart, Harry S., Chicago, Ill. Dump car. No. 1,389,350; Aug. 30; v. 289; p. 907.
Hart, William E., assignor to Hart's Auto Signal Tail Light Co., San Jose, Calif. Signal control. No. 1,389,138; Aug. 30; v. 289; p. 865.
Hart's Auto Signal Tail Light Co. (See Hart, William E., assignor.)
Harvey, Charles H., assignor, by mesne assignments, to The General Electric Company, Ltd., London, England. Means for supporting electrodes in ionic tubes. No. 1,389,351; Aug. 30; v. 289; p. 907.
Harvey, Louis B., Stockton, Calif., assignor to Harvey Rim & Wheel Company, Inc., Buffalo, N. Y. Driving-arch for wheel-felloes. No. 1,389,139; Aug. 30; v. 289; p. 865.
Harvey Rim & Wheel Company, Inc. (See Harvey, Louis B., assignor.)
Hatzan, Alexander, Niagara Falls, Ontario, Canada. Rupture appliance. No. 1,389,047; Aug. 30; v. 289; p. 847.
Hawkins, Lula B., Council Bluffs, Iowa. Bread-raiser. No. 1,389,352; Aug. 30; v. 289; p. 908.
Hay, Edwin C., Montgomery, Ala. Engine. No. 1,389,505; Aug. 30; v. 289; p. 937.
Headrick, Harry J., and S. A. Palmer, Miller, S. D. Machine for preparing seed-corn for drying. No. 1,389,506; Aug. 30; v. 289; p. 938.
Hecht, Henry, New York, and D. G. Black, Brooklyn, assignors to Alloys & Products, Inc., New York, N. Y. Alloy. No. 1,389,446; Aug. 30; v. 289; p. 926.
Hendershott, Charles A., Grand Rapids, Mich. Dry-kiln truck. No. 1,389,358; Aug. 30; v. 289; p. 908.
Hennegan, Paul M., Cincinnati, Ohio, assignor to F. D. Spotswood, Lexington, Ky. Advertising or display novelty. No. 1,389,551; Aug. 30; v. 289; p. 947.
Hentschke, Paul, assignor to Busch-Sulzer Bros.-Diesel Engine Company, St. Louis, Mo. Emergency engine control. No. 1,388,859; Aug. 30; v. 289; p. 808.
Hering, Carl, Philadelphia, Pa. Method of and means for increasing power factor. No. 1,389,354; Aug. 30; v. 289; p. 908.
Herold, James L., St. Louis, Mo. Lifting-jack. No. 1,389,355; Aug. 30; v. 289; p. 908.
Hesco Limited. (See Spencer, Harold E., assignor.)
Hess, Meyer S., Baltimore, Md. Shoe. No. 1,389,356; Aug. 30; v. 289; p. 909.
Higdon, Andy, Nevada, Iowa. Drag conveyer and elevator. No. 1,388,860; Aug. 30; v. 289; p. 809.
Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,389,000; Aug. 30; v. 289; p. 837.
Hilton, Roland C., assignor to Reece-Hilton, Inc., Troy, N. Y. Pump. No. 1,389,001; Aug. 30; v. 289; p. 838.
Hipkins, Stephen H., Auburn, Wash. Sanitary cow-tail holder. No. 1,389,507; Aug. 30; v. 289; p. 938.
Hochstetter, Frederick W., New York, N. Y., assignor to H. P. Patents and Processes Company, Inc. Screen for exhibiting moving pictures. No. 1,389,357; Aug. 30; v. 289; p. 909.
Hodge, Jacques & Company, Limited. (See Robinson, John, assignor.)
Hodge, Leslie R., Los Angeles, Calif. Percolator-stand. No. 1,389,508; Aug. 30; v. 289; p. 938.
Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnet device. No. 1,389,140; Aug. 30; v. 289; p. 865.
Hoe, R., and Co. (See Johnston, Robert T., assignor.)
Hoefer, Benjamin C., assignor to Hoefer Change-Maker Company, Kansas City, Mo. Coin-delivering machine. No. 1,388,861; Aug. 30; v. 289; p. 809.
Hoefer Change-Maker Company. (See Hoefer, Benjamin C., assignor.)
Hoelle, Frank F., Louisville, Ky. Spring. No. 1,389,303; Aug. 30; v. 289; p. 898.
Hoffer, John, Marianna, Pa. Governor for elevators. No. 1,389,248; Aug. 30; v. 289; p. 886.
Hogan, John L., *et al.* (See Dunbar, Thomas E., assignor.)
Hollowell, Benjamin, deceased, by Edna E. Von Stein, administratrix, Chester, W. Va. Agricultural tractor. No. 1,389,552; Aug. 30; v. 289; p. 947.
Holmes, Albert H., Natick, Mass. Garment-supporter. No. 1,389,304; Aug. 30; v. 289; p. 898.
Hoofer, Charles F., Seattle, Wash. Electric operating means for flange-oilers. No. 1,389,247; Aug. 30; v. 289; p. 886.
Hopkins, Arthur C., Minneapolis, Minn. Jack. No. 1,389,358; Aug. 30; v. 289; p. 909.
Horgan, Patrick J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastener-setting machine. No. 1,388,862; Aug. 30; v. 289; p. 809.
Horn, William H., & Brother, Incorporated. (See Patton, William D., assignor.)
Horr, Loren B., State College, N. Mex. Gear-shifting mechanism. No. 1,389,195; Aug. 30; v. 289; p. 876.
Hoscelt, William J., assignor to National Dump Car Company, Chicago, Ill. Door-operating mechanism. No. 1,388,950; Aug. 30; v. 289; p. 827.
Hoscelt, William J., assignor to Rodger Ballast Car Company, Chicago, Ill. Dump-car. No. 1,389,359; Aug. 30; v. 289; p. 909.
Houk, Clifford V., and T. W. Berry, San Diego, Calif.; said Berry assignor of one-third of his right to said Houk. Railway-crossing. No. 1,389,560; Aug. 30; v. 289; p. 948.
Houston, Percival T., assignor to Alphaero Engines (Foreign Patents) Limited, London, England. Internal-combustion engine. No. 1,389,002; Aug. 30; v. 289; p. 838.
Howe, John D. (See Dean, Harry B., assignor.)
Hubbard, Eber J., Berwyn, Ill. Bobbin. No. 1,388,952; Aug. 30; v. 289; p. 827.
Hubbard, Eber J., Berwyn, Ill. Bobbin. No. 1,388,951; Aug. 30; v. 289; p. 827.
Huff, Elbridge, Somerville, Mass. Sealing-strip apparatus. No. 1,389,003; Aug. 30; v. 289; p. 838.
Hughes, Dow B., New York, N. Y., assignor, by mesne assignments, to Motor Ignition & Devices Company. Ignition system. No. 1,389,048; Aug. 30; v. 289; p. 647.
Hull, Henry M., Fairfield, Conn. Kettle. No. 1,389,305; Aug. 30; v. 289; p. 898.
Hunt, Charles A., Chino, Calif. Vehicle-spring. No. 1,389,135; Aug. 30; v. 289; p. 864.
Hunter, Philip V., Purley, and J. R. Beard, Benton, England, assignors to Electrical Improvements Limited, Newcastle-upon-Tyne, England. Protective arrangement for electric distribution systems. No. 1,389,306; Aug. 30; v. 289; p. 898.
Hurley Machine Company. (See Fisher, Alva J., assignor.)
Hutchinson, Archie L., San Francisco, Calif. Window-frame. No. 1,389,136; Aug. 30; v. 289; p. 864.
Hyatt Roller Bearing Division, United Motors Corporation. (See Lockwood, Charles S., assignor.)
Hyatt Bearings Division, General Motors Corporation. (See Knoth, Conrad, assignor.)
Hydraulic Pressed Steel Company, The. (See Edwards, William R., assignor.)
Hyman, Max R., Indianapolis, Ind. Expansible septic tank. No. 1,389,553; Aug. 30; v. 289; p. 947.
Hynes, Lee P., assignor to Consolidated Car Heating Company, Albany, N. Y. Waterproof electric heater. No. 1,389,307; Aug. 30; v. 289; p. 898.
Ingle, Arthur H. (See Trosch, Alfred, assignor.)
Ingram, Walter M., Baltimore, Md. Air-pump. No. 1,389,360; Aug. 30; v. 289; p. 909.
International Harvester Company. (See Anderson, Emil F., assignor.)

International Harvester Company. (See Burgess, Edward W., assignor.)
International Harvester Company. (See Dennis, Samuel K., assignor.)
International Harvester Company. (See Lindgren, Alexus C., assignor.)
International Harvester Company. (See Webber, William, assignor.)
Jacobs, Patyon, Montreal, Quebec, Canada. Fire-extinguisher. No. 1,389,049; Aug. 30; v. 289; p. 847.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Switch. No. 1,389,141; Aug. 30; v. 289; p. 865.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Controller. No. 1,389,142; Aug. 30; v. 289; p. 865.
James, Joseph E. S., Philadelphia, Pa. Sponge-holder. No. 1,389,509; Aug. 30; v. 289; p. 938.
Jarrett, Walter O., Toronto, Ontario, Canada. Hester for bathtubs, laundry tubs, or the like. No. 1,389,050; Aug. 30; v. 289; p. 847.
Jensen, John, assignor to Whitney Metal Tool Company, Rockford, Ill. Machine element. No. 1,389,565; Aug. 30; v. 289; p. 950.
Jepson, John W., Buffalo, assignor to The Prest-O-Lite Company, Inc., New York, N. Y. Starting internal-combustion engines. No. 1,388,863; Aug. 30; v. 289; p. 810.
Jepson, John W., Buffalo, assignor to The Prest-O-Lite Company, Inc., New York, N. Y. Apparatus for starting internal-combustion engines. No. 1,388,864; Aug. 30; v. 289; p. 810.
Johnson, Axel, Oakland, Calif. Container-transfer for pressure cookers and coolers. No. 1,389,447; Aug. 30; v. 289; p. 926.
Johnson, Clarence E., Kankakee, Ill. Shaker. No. 1,389,510; Aug. 30; v. 289; p. 939.
Johnson, Gustav, Duluth, Minn. Mowing-machine attachment. No. 1,389,554; Aug. 30; v. 289; p. 947.
Johnston, James A., Seattle, Wash., assignor of twenty per cent. to T. J. Claffey and five per cent. to N. Ambrose, Chicago, Ill. Toilet-fixture connection. No. 1,389,004; Aug. 30; v. 289; p. 838.
Johnston, Robert T., Scotch Plains, N. J., assignor to R. Hoe and Co., New York, N. Y. Method and apparatus for plate cooling and finishing. No. 1,389,361; Aug. 30; v. 289; p. 910.
Johnstone, James O., East Chicago, Ind. Treating lead alloys. No. 1,389,511; Aug. 30; v. 289; p. 939.
Jones & Laughlin Steel Company. (See Free, John W., assignor.)
Jones, Frank B., London, and E. Bury, Yorkshire, England, assignors to Minerals Separation North American Corporation, New York, N. Y. Purifying liquors by froth flotation. No. 1,388,868; Aug. 30; v. 289; p. 811.
Jones, Herbert S., assignor to Packard Motor Car Company, Detroit, Mich. Slotting-machine. No. 1,389,308; Aug. 30; v. 289; p. 899.
Jones, Reece, Tulsa, Okla. Inner tube for tires. No. 1,389,362; Aug. 30; v. 289; p. 910.
Juopperi, Mathias E., Astoria, Oreg. Harrow. No. 1,389,512; Aug. 30; v. 289; p. 939.
Kammerdeiner, Harry O., Echo, Pa. Rail-joint. No. 1,389,448; Aug. 30; v. 289; p. 926.
Karpenko, Archip, New York, N. Y. Potato-planter. No. 1,389,363; Aug. 30; v. 289; p. 910.
Kaufer, Theodore, New York, N. Y. Adjustable garment-hanger. No. 1,389,309; Aug. 30; v. 289; p. 899.
Kaufer, Theodore, New York, N. Y. Garment-hanger. No. 1,389,310; Aug. 30; v. 289; p. 899.
Kaufman, John L., Brooklyn, N. Y. Process and apparatus for making natural-edge beaver hats. No. 1,389,364; Aug. 30; v. 289; p. 910.
Keller, Arnold B., *et al.*, trustees. (See Steward, John F., assignor.)
Kellner, Henry F., Silver Lake, Kans. Silt-accumulator. No. 1,389,513; Aug. 30; v. 289; p. 939.
Kellogg Toasted Corn Flake Co. (See McKay, Eugene H., assignor.)
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Reinforced tube and making it. No. 1,389,143; Aug. 30; v. 289; p. 866.
Kent, Bertha G., administratrix. (See Kent, George H.)
Kent, George H., deceased, Watertown, Mass., B. G. Kent, administratrix. Deposit-book. No. 1,389,561; Aug. 30; v. 289; p. 949.
Keough, Robert E., Montreal, Quebec, Canada. Railway-frog. No. 1,389,144; Aug. 30; v. 289; p. 866.
Kesselring, Fritz, Neuhausen, Switzerland. Continuous-current dynamo. No. 1,389,051; Aug. 30; v. 289; p. 848.
Kestell, Charles A., Detroit, Mich. Automatic lock-pulley. No. 1,389,514; Aug. 30; v. 289; p. 939.
Kezema, August P., Denver, Colo. Vehicle-tilting dumping-platform. No. 1,389,052; Aug. 30; v. 289; p. 848.
Kikta, Alex, Flint, Mich. Wrench. No. 1,389,515; Aug. 30; v. 289; p. 939.
Killen, James M., Reids, La. Ventilated grate for fireplaces. No. 1,389,516; Aug. 30; v. 289; p. 939.
Kimble, Austin, assignor to Marathon Electric Mfg. Co., Wausau, Wis. Ventilated pulley. No. 1,388,865; Aug. 30; v. 289; p. 810.
King, Harry J., Oaklandon, Ind. Shaving-mirror. No. 1,389,053; Aug. 30; v. 289; p. 848.
King, Rufus, Plainville, assignor to Bugbee & Niles Company, North Attleboro, Mass. Ribbon-bracelet clasp. No. 1,389,196; Aug. 30; v. 289; p. 876.
Kitchel, Robert R., Ridley Park, Pa. Lawn-mower. No. 1,389,249; Aug. 30; v. 289; p. 887.
Kitsee, Isidor, Philadelphia, Pa. Method and means of producing artificial silk. No. 1,389,517; Aug. 30; v. 289; p. 940.
Klaxton Company. (See Wheelock, John H., assignor.)
Kline, Morris, Cleveland, Ohio. Advertising change-tray. No. 1,389,365; Aug. 30; v. 289; p. 910.
Knight, John H., deceased, West Palm Beach, Fla.; Laura D. Knight, administratrix. Soil-pulverizing device. No. 1,388,953; Aug. 30; v. 289; p. 828.
Knight, Laura D., administratrix. (See Knight, John H.)
Knoth, Conrad, Hillside, assignor to Hyatt Bearings Division, General Motors Corporation, Harrison, N. J. Grinding-machine. No. 1,389,311; Aug. 30; v. 289; p. 899.
Koch, Georg, Darmstadt, Germany, assignor to E. Cadgene and O. Berg, Paterson, N. J. Weaving of pile fabrics. (Reissue.) No. 15,184; Aug. 30; v. 289; p. 951.
Koehler Manufacturing Company. (See Wheat, Grant, assignor.)
Koetschet, J., and M. Beudet, Lyon, France, assignors to Societe Chimique Des Usines, Du Rhone, (Anciennement Gilliard P. Monnet et Cartier,) Paris, France. Manufacture of cellulose. No. 1,389,250; Aug. 30; v. 289; p. 887.
Kohler, Conrad, Zurich, Switzerland. Surface condensing plant for steam-locomotives. No. 1,388,954; Aug. 30; v. 289; p. 828.
Kozlowsky, T., and W. Rogosky, Toledo, Ohio. Combined brush and comb. No. 1,388,955; Aug. 30; v. 289; p. 828.
Kozlowsky, T., and W. Rogosky, Toledo, Ohio. Telescopic picture-frame. No. 1,388,956; Aug. 30; v. 289; p. 828.
Kubik, Andrew, Michigan City, Ind. Dumping-door actuator. No. 1,389,449; Aug. 30; v. 289; p. 927.
Kugler, Charles H., Lexington, Nebr. Shock-absorber. No. 1,389,054; Aug. 30; v. 289; p. 848.
Kugler, Charles H., Lexington, Nebr. Yieldable connecting-rods. No. 1,389,055; Aug. 30; v. 289; p. 848.
Kules, Leo, Mount Washington, Pa. Hasp. No. 1,389,450; Aug. 30; v. 289; p. 927.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,388,957; Aug. 30; v. 289; p. 828.
Kusterer, Aloysius J., assignor to Consolidated Paper and Box Manufacturing Company, Richmond, Va. Tray-making machine. No. 1,389,197; Aug. 30; v. 289; p. 876.
La Duke, Charley. (See Wilcox, W., and La Duke.)
Lafond, Joseph V., Chicago, Ill. Handle and protector for teakettles. No. 1,388,958; Aug. 30; v. 289; p. 829.
Lamb, J. F., and F. E. Carlson, assignors to Landers, Frary and Clark, New Britain, Conn. Gas-mask. No. 1,388,959; Aug. 30; v. 289; p. 829.
Lambert, A. L., Narbeth, and A. Bell, Philadelphia, Pa., assignors, by mesne assignments, to American Motor Body Company, Detroit, Mich. Windshield. No. 1,389,145; Aug. 30; v. 289; p. 866.
Lambert, Frank, Brooklyn, N. Y., assignor to Thomson Meter Company. Wrench. No. 1,388,866; Aug. 30; v. 289; p. 810.
Lambing, Leo. A. (See Boehm, W., Corey, and Lambing.)
Lane, Edwin B., West Hoboken, N. J. Electromagnet and valve. No. 1,389,056; Aug. 30; v. 289; p. 849.
Landers, Frary and Clark. (See Lamb, J. F., and Carlson, assignors.)
Lange, Emil, Montreal, Quebec, Canada. Puzzle. No. 1,389,198; Aug. 30; v. 289; p. 877.
Larrabee, Emma L., West Palm Beach, Fla. Infant-binder. No. 1,388,867; Aug. 30; v. 289; p. 810.
Lavigue, Moses, Holyoke, Mass. Molding and metal fastener for sashes and window-panes. No. 1,389,057; Aug. 30; v. 289; p. 849.
Lauritsen, Charles C. (See Mastenbrook, H. J., and Lauritsen.)
Lazarus, M., New York, N. Y., and W. B. Davies, Bridgeport, Conn., assignors of one-fourth to G. Mendelsohn, Brooklyn, N. Y., and one-fourth to M. Trace, Bridgeport, Conn. Plate-printing press. No. 1,389,251; Aug. 30; v. 289; p. 887.
Leffler, Arthur. (See Cassel, Gunnar E., assignor.)
Lefler, William B., Springfield, Nebr. Drive mechanism for vehicles. No. 1,388,869; Aug. 30; v. 289; p. 811.
Leitch, James T., assignor of two-fifths to Tilghman A. Freed, Allentown, Pa. Phonograph. No. 1,389,058; Aug. 30; v. 289; p. 849.
Leminger, William C., Sullivan, Ind. Manure-spreader. No. 1,389,518; Aug. 30; v. 289; p. 940.
Lenhart, George, Eufaula, Okla. Expanding reamer. No. 1,389,519; Aug. 30; v. 289; p. 940.
Leonard, Caswell L., Corinth, Miss. Folding crate for poultry and other products. No. 1,389,199; Aug. 30; v. 289; p. 877.
Lerch, William F., Hartford, Conn. Swab. No. 1,388,960; Aug. 30; v. 289; p. 829.
Leslie Co., The. (See Metzger, Jules P., assignor.)
Lester, William W., Cincinnati, Ohio. Air-preheating mechanism for mill-furnaces. No. 1,389,059; Aug. 30; v. 289; p. 849.
Levasseur, Pierre, Paris, France. Aerial propeller. No. 1,389,146; Aug. 30; v. 289; p. 866.

Lewis, Elmer M., assignor to The Davis Sewing Machine Company, Dayton, Ohio. Bicycle construction. No. 1,388,961; Aug. 30; v. 289; p. 829.
Liberty Steel Products Company. (See Fowler, William E., Jr., assignor.)
Lichty, John M. (See Burke, Edward F., assignor.)
Lightfoot, Edwin N., New York, N. Y., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric heater. No. 1,389,312; Aug. 30; v. 289; p. 899.
Linde, Arne, Macrorie, Saskatchewan, Canada. Wrench. No. 1,389,200; Aug. 30; v. 289; p. 877.
Lindgren, Alexus, C., Chicago, Ill., assignor, by mesne assignments, to International Harvester Company. Disk plow. No. 1,388,962; Aug. 30; v. 289; p. 829.
Linville, Arthur P. and C. E., Berkeley, Calif. Shoe-scraper. No. 1,389,201; Aug. 30; v. 289; p. 877.
Linville, Clarence E. (See Linville, Arthur P. and C. E.)
Lipp, Albert E., Philadelphia, Pa. Camera. No. 1,388,870; Aug. 30; v. 289; p. 811.
Lippitz, Wilhelm, Jauer, Germany. Potato-planter. No. 1,389,060; Aug. 30; v. 289; p. 849.
Lochhead, Elmer C., and Lester P. Brewer, Effingham, Ill. Attachment for machines for sewing looped fabrics. No. 1,389,520; Aug. 30; v. 289; p. 940.
Lockwood, Charles S., Newark, N. J., assignor to Hyatt Roller Bearing Division, United Motors Corporation, Harrison, N. J. Tie-bar for roller-bearing cages. No. 1,389,313; Aug. 30; v. 289; p. 900.
Loder, Charles C., Cincinnati, Ohio. Automobile signal-controlling mechanism. No. 1,389,366; Aug. 30; v. 289; p. 910.
Love, Thomas H., Cincinnati, Ohio. Track construction for railways. No. 1,389,202; Aug. 30; v. 289; p. 877.
Lovell, William V., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Automatically-controlled vapor-converter substation. No. 1,389,147; Aug. 30; v. 289; p. 866.
Lucas, Arthur W., Fremont, Nebr. Ventilator. No. 1,389,252; Aug. 30; v. 289; p. 887.
Lucier, Joseph W., assignor of one-half to Harry L. Topping, Kankakee, Ill. Stop mechanism. No. 1,389,367; Aug. 30; v. 289; p. 911.
Lucier, Joseph W., Kankakee, Ill. Phonograph-stop. No. 1,389,368; Aug. 30; v. 289; p. 911.
Lundin, Karl G., Los Angeles, Calif. Gas-furnace. No. 1,389,253; Aug. 30; v. 289; p. 888.
Lutz, Henri E., Pittsburgh, Pa. Apparatus for recovering and securing volatile products from relatively-fixed heat-resistant substances. No. 1,389,203; Aug. 30; v. 289; p. 877.
McCabe, Thomas, Yorkville, Ohio. Plate-lifting mechanism for rolling-machines. No. 1,389,521; Aug. 30; v. 289; p. 941.
McCarthy, Daniel J., Elgin, Ill., assignor to Chicago Railway Signal and Supply Company, Chicago, Ill. Signal system. No. 1,389,061; Aug. 30; v. 289; p. 850.
McCarthy, Michael, assignor to himself and W. Moriarty, London, England. Armchair. No. 1,389,254; Aug. 30; v. 289; p. 888.
McClymont, Bryce W., assignor to Penberthy Injector Company, Detroit, Mich. Vacuum-generator for steam-heating systems. No. 1,388,871; Aug. 30; v. 289; p. 811.
McConahey, William M., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Transformer. No. 1,389,148; Aug. 30; v. 289; p. 866.
McDaniel, D. A. (See Dusseau, Maurice G., assignor.)
McDermott, John, Kalamazoo, Mich. Antislip device for vehicle-wheels. No. 1,389,204; Aug. 30; v. 289; p. 877.
McDonald, Leslie R., assignor to W. J. O'Leary, Montreal, Quebec, Canada. High-frequency electrical oscillation apparatus. No. 1,389,255; Aug. 30; v. 289; p. 888.
McElhaney, Lewis O., Glasford, Ill. Pick. No. 1,388,872; Aug. 30; v. 289; p. 811.
McEwen, Willard M., Chicago, Ill. Tire-casing filler. No. 1,389,005; Aug. 30; v. 289; p. 839.
McGee, James R., Milwaukee, Wis. Automatic railway-gate. No. 1,389,256; Aug. 30; v. 289; p. 888.
McGowan, Edward M., Toledo, Ohio. Postage-marking machine. No. 1,389,062; Aug. 30; v. 289; p. 850.
McKay, Eugene H., assignor to Kellogg Toasted Corn Flake Co., Battle Creek, Mich. Manufacture of cereal food. No. 1,388,873; Aug. 30; v. 289; p. 811.
McKee, Arthur G. (See Geesman, W. H., and McKee.)
McKibben, William J., Steubenville, Ohio. Train-controlling mechanism. No. 1,389,063; Aug. 30; v. 289; p. 850.
McKinney, Robert F. (See Perkins, L. C., and McKinney.)
McLaughlin, William P., Bristol, R. I., assignor to National India Rubber Company. Shoe-last. No. 1,389,451; Aug. 30; v. 289; p. 927.
McMullin, Joseph B., assignor to Western Manufacturing Co., Oskaloosa, Iowa. Hose-reel. No. 1,389,314; Aug. 30; v. 289; p. 900.
McNeill, William M., Logansport, Ind., assignor of one-half to Billie M. Sheffey, Rosiclare, Ill. Soot-blower. (Reissue.) No. 15,185; Aug. 30; v. 289; p. 951.
McVickar, John A. (See Gilman, Willard H., assignor.)
Macdonald, Thomas A., Paterson, N. J. Aeroplane. No. 1,389,257; Aug. 30; v. 289; p. 888.
Macfarlane Communications Corporation. (See Macfarlane, William W., assignor.)
Macfarlane, William W., Philadelphia, Pa., assignor to Macfarlane Communications Corporation, New York, N. Y. Electrical system of train communication. No. 1,389,258; Aug. 30; v. 289; p. 888.
Mack-Miller Candle Company. (See Cook, G. L., and Schmider, assignors.)
MacKay John F., Lancaster, Pa. Vapor-burner. No. 1,389,259; Aug. 30; v. 289; p. 889.
MacKelvie, Hugh. (See Gregory, G. P., and MacKelvie.)
Mackenzie, Fred L., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. No. 1,389,205; Aug. 30; v. 289; p. 878.
MacMillan, Joseph E., Pasadena, Calif. Belt-holder. No. 1,389,206; Aug. 30; v. 289; p. 878.
Maha, Irvin J., Sleepy Eye, Minn. Motor-starter. No. 1,389,522; Aug. 30; v. 289; p. 941.
Manly, Charles M., Buffalo, N. Y. Steering-gear. No. 1,389,260; Aug. 30; v. 289; p. 889.
Manning, Harry W., Portland, Oreg. Oil-burner. No. 1,389,207; Aug. 30; v. 289; p. 878.
Marathon Electric Mfg. Co. (See Kimble, Austin, assignor.)
Marlatt, George E., Pasadena, Calif. Typographical machine. No. 1,389,369; Aug. 30; v. 289; p. 911.
Marr, Alexander, Biggin Hill, England. Sound-transmitting instrument. No. 1,388,963; Aug. 30; v. 289; p. 830.
Marsh, Hugh M., assignor to G. M. Nelson, Chicago, Ill. Ventilator. No. 1,389,261; Aug. 30; v. 289; p. 889.
Martin, Oliver O., Chicago, Ill. Dental-floss holder. No. 1,389,064; Aug. 30; v. 289; p. 850.
Martin, Thomas H., Columbus, Ohio. Squeezer for collapsible tubes. No. 1,389,452; Aug. 30; v. 289; p. 927.
Martinelli, Henry C. (See Goodrich, E. H., and Martinelli.)
Maskrey, Alfred E., Canton, assignor, by mesne assignments, of one-half to K. Umstead, Salem, Ohio. Metal band. No. 1,389,208; Aug. 30; v. 289; p. 878.
Mastenbrook, Henry J., Lakewood, and C. C. Lauritsen, assignor to The Ohio Blower Company, Cleveland, Ohio. Tilting or gravity trap. No. 1,389,065; Aug. 30; v. 289; p. 850.
Mateer, Jesse E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Insulating-coil and making same. No. 1,389,149; Aug. 30; v. 289; p. 867.
Maxim, Hudson, Hopatcong borough, N. J. Magnetic firing mechanism for submarine mines. No. 1,389,566; Aug. 30; v. 289; p. 950.
Megill, Edward L., New York, N. Y. Paper-gripper. No. 1,388,964; Aug. 30; v. 289; p. 830.
Mendelsohn, Gustave, *et al.* (See Lazarus, M., and Davies, assignors.)
Mengel Company, The. (See Green, Warren T., assignor.)
Mercer, Raymond C., Los Angeles, Calif. Film-patch. No. 1,389,523; Aug. 30; v. 289; p. 941.
Mershon, Ralph D., New York, N. Y. Forming dielectric films. No. 1,388,874; Aug. 30; v. 289; p. 812.
Metzger, Jules P., Carlstadt, assignor to The Leslie Co., Lyndhurst, N. J. Combined pressure regulating and governing apparatus. No. 1,389,370; Aug. 30; v. 289; p. 911.
Metzger, Reinhard F., Brooklyn, N. Y. Pliers. No. 1,389,371; Aug. 30; v. 289; p. 911.
Meyer, Harry R., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of control. No. 1,389,150; Aug. 30; v. 289; p. 867.
Mill, Anton, Sr. (See Hake, C. F., Jr., and Mill.)
Miller, Gustave, Los Angeles, Calif. Steam-boiler. No. 1,389,262; Aug. 30; v. 289; p. 889.
Minerals Separation North American Corporation. (See Jones, F. B., and Bury, assignors.)
Mirrielees, James F., assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio. Feed mechanism for drilling-machines. No. 1,388,875; Aug. 30; v. 289; p. 812.
Mirrielees, James F., assignor, by mesne assignments, to The Avey Drilling Machine Company, Cincinnati, Ohio. Belt-drive mechanism for drilling-machines and the like. No. 1,388,876; Aug. 30; v. 289; p. 812.
Miseradis, William F., Lorton, Nebr. Cistern. No. 1,389,151; Aug. 30; v. 289; p. 867.
Mitera, Joseph, Plainfield, N. J. Mechanical toy. No. 1,389,372; Aug. 30; v. 289; p. 912.
Moats, De Witt T., Indianapolis, Ind. Finger-ring-casting pattern. No. 1,389,315; Aug. 30; v. 89; p. 900.
Moon, Merle B. (See Sylvester, William W., assignor.)
Moore, Paul F., Carneys Point, N. J. Internal-combustion motor. No. 1,389,453; Aug. 30; v. 289; p. 927.
Moore, Robert A., New York, N. Y. Cooling means for internal-combustion engines. No. 1,388,965; Aug. 30; v. 289; p. 830.
Moore, Robert W., St. Louis, Mo. Spark-plug. No. 1,389,152; Aug. 30; v. 289; p. 867.
Moore, Stuart B., Houston, Tex. Preserving wood. No. 1,388,877; Aug. 30; v. 289; p. 812.
Morgan & Wright. (See Eger, Ernst, assignor.)
Morgan Engineering Company, The. (See Taylor, Clarence L., assignor.)
Morgan Engineering Company. (See Wackerly, Harry A., assignor.)

Morehous, George W., Callao, Utah. Resilient wheel. No. 1,389,153; Aug. 30; v. 289; p. 867.
Moriarty, William. (See McCarthy, Michael, assignor.)
Morin, George G., Holyoke, Mass. Rear-end automobile-signal. No. 1,389,373; Aug. 30; v. 289; p. 912.
Morris, Thomas F., Waterford, N. Y. Punch-press. No. 1,389,263; Aug. 30; v. 289; p. 890.
Morse Instrument Company. (See Morse, Robert V., assignor.)
Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Wear-compensating gearing for instruments. No. 1,389,524; Aug. 30; v. 289; p. 941.
Mosby, John K., Wiggins, Miss. Surgical appliance. No. 1,389,525; Aug. 30; v. 289; p. 942.
Motor Ignition & Devices Company. (See Hughes, Dow B., assignor.)
Mueller, Charles W., St. Louis, Mo. Gear-shift-lever lock for automobiles. No. 1,389,316; Aug. 30; v. 289; p. 900.
Multiple Offset Machine Co. (See Ogden, Ashley G., assignor.)
Murphy, Patrick J., Dubois, Pa. Steel mine-rail tie. No. 1,389,066; Aug. 30; v. 289; p. 851.
Murphy, Walter P. (See Conwell, Samuel H., assignor.)
Murphy, Walter P. (See Sisson, Vinton E., assignor.)
Murphy, William M., Glenside, Pa. Citrus-juice extractor. No. 1,389,454; Aug. 30; v. 289; p. 928.
Murray, George C., Chicago, Ill. Draft-gear yoke. No. 1,388,878; Aug. 30; v. 289; p. 812.
Musher & Company. (See Rector, Thomas M., assignor.)
Muskin, Hyman, Baltimore, Md. Shoe. No. 1,389,455; Aug. 30; v. 289; p. 928.
Myatt, Samuel L., St. Louis, Mo. Footrest for automobiles. No. 1,389,209; Aug. 30; v. 289; p. 879.
N. C. L. Engineering Corporation. (See Noble, Warren, assignor.)
National Carbon Company. (See Alschuler, Ernest, assignor.)
National Carbon Company. (See Hambuechen, Carl, assignor.)
National Dump Car Company. (See Hoscelt, William J., assignor.)
National India Rubber Company. (See McLaughlin, William P., assignor.)
National Manufacturing Company, The. (See Canlon, William G., assignor.)
National Pneumatic Company. (See Casey, Thomas W., assignor.)
Naugle, Harry M., assignor to The Alloy Parts Manufacturing Company, Canton, Ohio. Lubricating-bolt. No. 1,389,375; Aug. 30; v. 289; p. 912.
Naugle, Harry M., assignor to The Alloy Parts Manufacturing Company, Canton, Ohio. Lubricating spring-bolt. No. 1,389,374; Aug. 30; v. 289; p. 912.
Neale, Herbert H., New York, N. Y. Spring suspension of self-propelled vehicles. No. 1,389,100; Aug. 30; v. 289; p. 857.
Neale, William M., Greensboro, N. C. Shade-fixture. No. 1,389,264; Aug. 30; v. 289; p. 890.
Necedah Manufacturing Corporation, The. (See De Brun, Frank H., assignor.)
Neilson, Mary D., Minneapolis, Minn. Undergarment for women. No. 1,389,067; Aug. 30; v. 289; p. 851.
Nelson, Charles A., Utica, N. Y., assignor to Savage Arms Corporation. Gas-operated firearm. No. 1,388,879; Aug. 30; v. 289; p. 813.
Nelson, Gaylord M. (See Marsh, Hugh M., assignor.)
Nelson, William G., Racine, Wis. Electric heating and regulating device for incubators. No. 1,388,966; Aug. 30; v. 289; p. 830.
Neubert, Richard L., Knoxville, Tenn. Traveling hoist. No. 1,389,265; Aug. 30; v. 289; p. 890.
Neville, Thomas. (See Gilbert, J. F., and Neville.)
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Fastening. No. 1,389,154; Aug. 30; v. 289; p. 862.
Newton, Andre H., Beaumont, Tex. Price-tag holder. No. 1,389,266; Aug. 30; v. 289; p. 890.
Newton, George L., Machen, Ga. Peanut-harvester. No. 1,389,526; Aug. 30; v. 289; p. 942.
Niederluecke, William H., St. Louis, Mo. Table-pad. No. 1,389,567; Aug. 30; v. 289; p. 950.
Nielsen, Julian J. (See Cuthbert, J., and Nielsen.)
Niles-Bement-Pond Company. (See Blood, Harold L., assignor.)
Noah, John P., Galena, Ill. Nut-lock. No. 1,389,006; Aug. 30; v. 289; p. 830.
Noble, Warren, assignor to N. C. L. Engineering Corporation, Providence, R. I. Vibration-quenching mount for internal-combustion motors. No. 1,388,967; Aug. 30; v. 289; p. 830.
Noggle, John B., Kansas City, Mo. Chair. No. 1,389,317; Aug. 30; v. 289; p. 900.
Norbye, Julius, Minneapolis, Minn. Oil-well apparatus. No. 1,389,007; Aug. 30; v. 289; p. 839.
Norris, Paul E., East Cleveland, assignor to Willard Storage Battery Company, Cleveland, Ohio. Lead-burning machine for storage-battery plates. No. 1,389,155; Aug. 30; v. 289; p. 868.
Northern Trust Company, The, *et al.*, trustee. (See Scott, Ray W., assignor.)
Norton, Charles H., and A. Turner, assignors to Norton Company, Worcester, Mass. Clutch mechanism. No. 1,389,267; Aug. 30; v. 289; p. 890.
Norton Company. (See Norton, C. H., and Turner, assignors.)
Novinsky, Stanley, Brasnell, Pa. Comb and brush. No. 1,389,210; Aug. 30; v. 289; p. 879.
Oates, Margaret E., Victoria, British Columbia, Canada. Fire-extinguisher. No. 1,389,527; Aug. 30; v. 289; p. 942.
Obie, Alfred F., Lisbon, Me. Moccasin. No. 1,389,376; Aug. 30; v. 289; p. 912.
Obrecht, Louis, Mount Clemens, Mich. Spring-suspension attachment for motor-vehicles. No. 1,389,318; Aug. 30; v. 289; p. 900.
O'Brien, John J., Brooklyn, N. Y. Check-protector. No. 1,389,377; Aug. 30; v. 289; p. 913.
Ogden, Ashley G., assignor to Multiple Offset Machine Co., Baltimore, Md. Printing-machine. No. 1,388,968; Aug. 30; v. 289; p. 830.
Ohio Blower Company, The. (See Mastenbrook, H. J., and Lauritsen, assignors.)
Ohrvall, Oscar, New York, N. Y. Foam or froth dissipator. No. 1,389,101; Aug. 30; v. 289; p. 857.
O'Leary, William J. (See McDonald, Leslie R., assignor.)
Olson, Charles W., assignor to Continental Motors Corporations, Detroit, Mich. Assembling-cradle. No. 1,389,068; Aug. 30; v. 289; p. 851.
Oneill, Thomas B. (See Celler, Arthur, assignor.)
Orrock, John W., Montreal, Quebec, Canada. Mill-type door. No. 1,389,211; Aug. 30; v. 289; p. 879.
Osol, Fritz E. (See Barron, W. L., and Osol.)
Ostrander, Alexander J., Lyons, N. Y. Stringed musical instrument. No. 1,388,880; Aug. 30; v. 289; p. 813.
P. & F. Manufacturing Company. (See Pinder, Roland C., assignor.)
Packard Motor Car Company. (See Jones, Herbert S., assignor.)
Packer, Courtland N., Battle Creek, Mich. Two-cycle engine. No. 1,389,156; Aug. 30; v. 289; p. 868.
Paff, Charles, New York, N. Y. Metallic tie. No. 1,389,069; Aug. 30; v. 289; p. 851.
Palm, Arthur W., Minneapolis, Minn. Storm-sash holder. No. 1,388,881; Aug. 30; v. 289; p. 813.
Palmer, Samuel A. (See Headrick, H. J., and Palmer.)
Panther Rubber Manufacturing Company. (See Bernstein, William, assignor.)
Parker, Alexander, Etna Mills, Calif. Apparatus for controlling tide-waters. No. 1,389,212; Aug. 30; v. 289; p. 879.
Parker, Thomas L., assignor to The Standard Electric Manufacturing Co., Chicago, Ill. Snap-switch. No. 1,389,213; Aug. 30; v. 289; p. 879.
Parks, Clarence L., Seattle, Wash. Photoprinting-box. No. 1,389,268; Aug. 30; v. 289; p. 891.
Parttridge, William J., Clinton, La. Seed-stripper. No. 1,389,157; Aug. 30; v. 289; p. 868.
Patton, William D., assignor to William H. Horn & Brother Incorporated, Philadelphia, Pa. Truss-fixture. No. 1,389,378; Aug. 30; v. 289; p. 913.
Paul, Adolf, Brooklyn, N. Y. Blade-sharpener. No. 1,388,882; Aug. 30; v. 289; p. 813.
Paulson, Anton W., Omaha, Nebr. Air-brake lock. No. 1,389,070; Aug. 30; v. 289; p. 851.
Payne, Walter B., assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,389,214; Aug. 30; v. 289; p. 880.
Payne, Walter B., assignor to Todd Protectograph Company, Rochester, N. Y. Check-writer. No. 1,389,215; Aug. 30; v. 289; p. 880.
Pearsons, George T., New York, N. Y. Fire-extinguisher. No. 1,388,883; Aug. 30; v. 289; p. 813.
Peck, Harry E., Waverly, N. Y. Valve-grinding machine. No. 1,388,884; Aug. 30; v. 289; p. 814.
Penberthy Injector Company. (See McClymont, Brice W., assignor.)
Perazzoli, Henry, Philadelphia, Pa. Track-grinding machine. No. 1,389,528; Aug. 30; v. 289; p. 942.
Perkins, Lester C., and R. F. McKinney, Mechanicsville, N. Y. Grate-bar. No. 1,389,529; Aug. 30; v. 289; p. 942.
Pessels, Walter C., Brookline, assignor to Whittemore Bros. Corp., Cambridge, Mass. Liquid-dauber. No. 1,389,071; Aug. 30; v. 289; p. 852.
Peter, Alfred, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Protected firing mechanism for internal-combustion engines. No. 1,388,969; Aug. 30; v. 289; p. 821.
Peters, Louis D., Jackson, Ohio. Signal-lantern. No. 1,389,158; Aug. 30; v. 289; p. 869.
Peterson, Frederick R., Spokane, Wash. Brake attachment for automobiles. No. 1,389,159; Aug. 30; v. 289; p. 869.
Peterson, George. (See Swenson, Gustav, assignor.)
Peterson, Nels, Delano, Calif. Post-puller. No. 1,389,456; Aug. 30; v. 289; p. 928.
Phenix Cheese Company. (See Carpenter, L. E., and Eldredge, assignors.)
Pieters, Julien, assignor to Societe du Four Vertical Continu, Paris, France. Method and apparatus for producing a regular progression of materials in vertical ovens. No. 1,389,379; Aug. 30; v. 289; p. 913.
Piltz, John D., Detroit, Mich. Automatic safety window and screen lock. No. 1,389,457; Aug. 30; v. 289; p. 928.
Pinder, Roland C., Lima, assignor to P. & F. Manufacturing Company, Minster, Ohio. Tone-modulating device for pianos. No. 1,389,160; Aug. 30; v. 289; p. 869.

Pirdun, Lewis, and J. P. Burke, Sand Springs, Okla. Driving and controlling the operation of reels. No. 1,388,885; Aug. 30; v. 289; p. 814.
Pittman, Reinhart W., New York, N. Y. Motion-picture-film-feeding device. No. 1,388,886; Aug. 30; v. 289; p. 814.
Pohle, Frederick W., Jr., assignor to Steul and Thuman Company, Buffalo, N. Y. Leg-fastening for furniture. No. 1,389,008; Aug. 30; v. 289; p. 839.
Polansky, Emil L., Munden, Kans. Attachment for tractor-wheels. No. 1,389,269; Aug. 30; v. 289; p. 891.
Polinkowsky, Lipa, Antwerp, Belgium, assignor to Western Electric Company, Incorporated, New York, N. Y. Indicating system. No. 1,388,887; Aug. 30; v. 289; p. 814.
Poméon, Antoine L. (See Poméon, Pierre, J., and A. L.)
Poméon, Joseph. (See Poméon, Pierre, J., and A. L.)
Poméon, Pierre, J., and A. L., St. Chamond, France. Manufacture of pasteboard cases and means therefor. No. 1,388,888; Aug. 30; v. 289; p. 814.
Poméron, Pierre, J., and A. L., St. Chamond, France. Molding-press. No. 1,388,889; Aug. 30; v. 289; p. 814.
Porter, Charles R. (See Walley, James J., assignor.)
Post, Mary, Norwalk, Iowa. Napkin. No. 1,389,530; Aug. 30; v. 289; p. 943.
Potter, James C., Pawtucket, R. I. Metal-working machines. No. 1,389,216; Aug. 30; v. 289; p. 880.
Powers, W. F., Company, The. (See Carter, Willis M., assignor.)
Pratt & Whitney Company. (See Blood, Bryant H., assignor.)
Pratt & Whitney Company. (See Thacher, John J., assignor.)
Pratt, Fred C., Farmington, Me. Fruit-slicer. No. 1,389,270; Aug. 30; v. 289; p. 891.
Prest-O-Lite Company, The. (See Jepson, John W., assignor.)
Pride, William H., Springfield, Ill. Compound track-rail. No. 1,389,217; Aug. 30; v. 289; p. 880.
Primeau, Joseph J., Worcester, Mass. Combined coat and hat hanger. No. 1,389,218; Aug. 30; v. 289; p. 880.
Provich, Michael, Chicago, Ill. Stopper. No. 1,388,890; Aug. 30; v. 289; p. 815.
Prudden, Theodore M., Newton, Mass. Ball-bearing spindle. No. 1,389,009; Aug. 30; v. 289; p. 840.
Purnell, Robert L., Red Level, Ala. Water-pump. No. 1,389,458; Aug. 30; v. 289; p. 928.
Putnam, Fred A., Keene, N. H. Tractor. No. 1,389,010; Aug. 30; v. 289; p. 840.
Quagliano, Vito A., East Boston, Mass. Headlight for vehicles. No. 1,388,891; Aug. 30; v. 289; p. 815.
Quigley, George E., Yorba Linda, Calif. Irrigating device. No. 1,389,319; Aug. 30; v. 289; p. 901.
Quinn, Cornelius, Denver, Colo. Jar-opener. No. 1,389,011; Aug. 30; v. 289; p. 840.
Raab, Herman, New York, N. Y. Lock. No. 1,389,380; Aug. 30; v. 289; p. 913.
Racine Accessories Manufacturing Co. (See De Tamble, Edward S., assignor.)
Radium Dial Company. (See Fordyce, Rufus G., assignor.)
Raiche, Paul A., assignor to Davol Rubber Company, Providence, R. I. Machine for forming nipples. No. 1,389,219; Aug. 30; v. 289; p. 880.
Ramsey, George, Washington, D. C. Moving-picture camera. No. 1,388,892; Aug. 30; v. 289; p. 815.
Randall, A. L., Co. (See Galavan, Edward, assignor.)
Randasso, Lillian, Ranger, Tex. Door-hook. No. 1,388,970; Aug. 30; v. 289; p. 831.
Raymond, Samuel W., Adrian, Mich. Service station. No. 1,388,893; Aug. 30; v. 289; p. 815.
Rector, Thomas M., Baltimore, Md., assignor to Musher & Company, Incorporated, New York, N. Y. Producing transparent emulsion. No. 1,389,161; Aug. 30; v. 289; p. 869.
Reece-Hilton, Inc. (See Hilton, Roland C., assignor.)
Reed, Charles P., Indiana, Pa. Educational game. No. 1,389,162; Aug. 30; v. 289; p. 869.
Reed, Ekegren & Co. (See West, Charles J., assignor.)
Renton, Franklin G., Providence, R. I. Taper-gaging caliper. No. 1,389,381; Aug. 30; v. 289; p. 913.
Reuser, Paulus J., Amsterdam, Netherlands. Aeroplane. No. 1,389,163; Aug. 30; v. 289; p. 870.
Rheinische Metallwarenfabrik Gebr. Schumacher G. m. b. H. (See Thyssen, Conrad, assignor.)
Riche, Frederick F., Troy, N. Y. Male urinal bag. No. 1,389,531; Aug. 30; v. 289; p. 943.
Riegert, George I. (See Shuster, S. L., and Riegert.)
Rigsby, John P., Edgewood, Pa., assignor to Westinghouse Electric & Manufacturing Company, Synchronism-indicator. No. 1,389,382; Aug. 30; v. 289; p. 913.
Rivard, Theodore, Newport, Vt. Rerailer. No. 1,389,383; Aug. 30; v. 289; p. 914.
Roberts, Charles B., Berkeley, Calif. Vehicle-lift. No. 1,389,532; Aug. 30; v. 289; p. 943.
Roberts, John W., Sarnia, Ontario, Canada. Pipe-coupling for railway rolling-stock. No. 1,389,012; Aug. 30; v. 289; p. 840.
Robinson, John, Kingswood, near Bristol, assignor of one-half to Hodge, Jacques & Company, Limited, Bristol, England. Skiving-machine. No. 1,388,971; Aug. 30; v. 289; p. 831.
Robinson, Walter M., Arlington, assignor to Victory Equipment Corporation, Boston, Mass. Air-cock. No. 1,389,384; Aug. 30; v. 289; p. 914.
Robson, Clarence E., Philadelphia, Pa. Roller-bearing. No. 1,389,385; Aug. 30; v. 289; p. 914.
Rodger Ballast Car Company. (See Hoscelt, William J., assignor.)
Roesch, Alfred, assignor to Charles J. Tagliboe Manufacturing Co., Brooklyn, N. Y. Temperature-controller. No. 1,388,894; Aug. 30; v. 289; p. 816.
Rogers, Edwin, Aurora, Ill. Rail-fastening for concrete ties. No. 1,388,972; Aug. 30; v. 289; p. 832.
Rogosky, Wojciech. (See Kozlowsky, T., and Rogosky.)
Rolkjer, Andrew H., Boise, Idaho. Back-lock for cameras. No. 1,389,164; Aug. 30; v. 289; p. 870.
Romo, Frank, Jr., Hilo, Hawaii. Hot-plate lifter. No. 1,389,102; Aug. 30; v. 289; p. 857.
Rosenberg, Ephraim A., Detroit, Mich. Window-locking device. No. 1,389,072; Aug. 30; v. 289; p. 852.
Rosenthal, Samuel, New York, and S. D. Brightman, Brooklyn, N. Y. Belt-buckle. No. 1,389,459; Aug. 30; v. 289; p. 929.
Ross, Oscar A., Brooklyn, N. Y. Automatic train-control system or the like. No. 1,389,220; Aug. 30; v. 289; p. 881.
Roussey, Amos J., Fort Wayne, Ind. Manufacturing vehicle-tires. No. 1,389,221; Aug. 30; v. 289; p. 881.
Rowley, Joseph P. (See Schoellner, J. W., and Rowley.)
Rubinstein, Barnett, St. Louis, Mo. Clamp for cloth-machines. No. 1,389,320; Aug. 30; v. 289; p. 901.
Russo Rocco, New York, N. Y. Convertible article of furniture. No. 1,388,895; Aug. 30; v. 289; p. 816.
Ryan, John, Dubuc, Saskatchewan, Canada. Hammer. No. 1,389,103; Aug. 30; v. 289; p. 857.
Sabo, Julius G., New Haven, Conn., assignor to Westinghouse Air Spring Company. Cup-washer expander. No. 1,389,222; Aug. 30; v. 289; p. 881.
Sackett, Archie R., San Pedro, Calif. Weighing-refrigerator. No. 1,389,533; Aug. 30; v. 289; p. 943.
Safety Car Heating and Lighting Company, The. (See Watson, Leonard A., assignor.)
Sage, Ralph V., Philadelphia, Pa. Car construction. No. 1,388,896; Aug. 30; v. 289; p. 816.
Sanford, George E. (See Buchanan, John W., assignor.)
Savage Arms Corporation. (See Nelson, Charles A., assignor.)
Sawtelle, Edward J., Berwick, Me. Razor-hone. No. 1,389,534; Aug. 30; v. 289; p. 943.
Sawyer, Charles A., *et al.* (See Torrey, Charles L., assignor.)
Sawyer-Weber Tool Manufacturing Company. (See Weber, Alexander, assignor.)
Sayre, Charles E., Pittsburgh, Pa. Valve mechanism. No. 1,389,104; Aug. 30; v. 289; p. 858.
Scaife, Joseph D., Newark-on-Trent, England. Chuck and like work-holder. No. 1,389,272; Aug. 30; v. 289; p. 891.
Scanlan, George H., New York, N. Y. Traction-wheel. No. 1,389,460; Aug. 30; v. 289; p. 929.
Schaake, Henry, Vancouver, British Columbia, Canada. Shingle-machine table. No. 1,389,321; Aug. 30; v. 289; p. 901.
Schaefer, George H. T. (See Aimes, W. R., and Schaefer.)
Schley, Frederick L., Brooklyn, N. Y. Printer's galley. No. 1,389,223; Aug. 30; v. 289; p. 881.
Schlosser, Arthur R., Plankinton, S. D. Vehicle attachment. No. 1,389,073; Aug. 30; v. 289; p. 852.
Schmider, Joseph F. (See Cook, G. L., and Schmider.)
Schmidt, Charles G. and O. C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Carcass dehairing and cleaning machine. No. 1,388,898; Aug. 30; v. 289; p. 816.
Schmidt, Henry F., Wilkinsburg, Pa., assignor to Westinghouse Gear & Dynamometer Company. Gearing. No. 1,388,897; Aug. 30; v. 289; p. 816.
Schmidt, Oscar C., assignor to The Cincinnati Butchers' Supply Company, Cincinnati, Ohio. Carcass dehairing and cleaning machine. No. 1,388,899; Aug. 30; v. 289; p. 816.
Schmidt, Oscar C. (See Schmidt, Charles G. and O. C.)
Schneider, Heinrich, Baden, Switzerland. Vehicle, more particularly a locomotive, with combustion-engine and liquid driving-gear. No. 1,389,562; Aug. 30; v. 289; p. 949.
Schoellner & Horbach Mfg. Co. (See Schoellner, J. W., and Rowley, assignors.)
Schoellner, John W., and J. P. Rowley, assignors to Schoellner & Horbach Mfg. Co., Newark, N. J. Manufacturing connecting members or links for cuff-buttons. No. 1,388,973; Aug. 30; v. 289; p. 832.
Schrag, Louis C., Kitchener, Ontario, Canada. Traffic-signal for automobiles. No. 1,388,900; Aug. 30; v. 289; p. 817.
Schreiber, John P., Mount Vernon, Ind. Electric heater for poultry plants. No. 1,388,974; Aug. 30; v. 289; p. 832.
Schroeder, William A., Seattle, Wash. Dimming device for headlights. No. 1,389,273; Aug. 30; v. 289; p. 892.
Schulse, Herman E. (See Van Nostrand, Charles H., assignor.)
Schwartz, Samuel R., New York, N. Y. Mounting lamp-shades. No. 1,389,013; Aug. 30; v. 289; p. 840.
Schwartzen, Charles, Kenosha, Wis. Railway-crossing apparatus. No. 1,389,535; Aug. 30; v. 289; p. 944.

Schweitzer, Wilhelm H., Heidelberg, Germany, assignor to Society "Technochemia" Aktiengesellschaft, Glarus, Switzerland. Textile product derived from animal fiber and making same. No. 1,389,274; Aug. 30; v. 289; p. 892.

Schweitzer, Wilhelm H., Heidelberg, Germany, assignor to Society "Technochemia" Aktiengesellschaft, Glarus, Switzerland. Textile product derived from an animal fiber and making same. No. 1,389,275; Aug. 30; v. 289; p. 892.

Schwer, George A., and O. E. Bornhauser, Sandusky, Ohio. Valve mechanism. No. 1,389,276; Aug. 30; v. 289; p. 892.

Scollard, Thomas F., Warsaw, Ind. Rotary valve. No. 1,389,536; Aug. 30; v. 289; p. 944.

Scott, Oliver P., Tacoma, Wash. Electric hot-air heater No. 1,389,165; Aug. 30; v. 289; p. 870.

Scott, Oliver P., Tacoma, Wash. Water-heater. No 1,389,166; Aug. 30; v. 289; p. 870.

Scott Player Action Co. *et al.* (See Scott, Ray W., assignor.)

Scott, Ray W., New York, N. Y., assignor of two-fifths to Scott Player Action Co., Racine, Wis., and three-fifths to The Northern Trust Company, Chicago, Ill., trustee. Pumping system for player-pianos. No. 1,389,322; Aug. 30; v. 289; p. 901.

Scott, Ray W., New York, N. Y., assignor of two-fifths to Scott Player Action Co., Racine, Wis., and three-fifths to The Northern Trust Company, Chicago, Ill., trustee. Pumping system for player-pianos. No. 1,389,323; Aug. 30; v. 289; p. 901.

Scovill Manufacturing Co. (See Bagg, Hollis B., assignor.)

Semi-Unit Corporation. (See Goold, Luella L., assignor.)

Seymour, William A., Leavenworth, Kans. Baling-wire needle. No. 1,389,386; Aug. 30; v. 289; p. 914.

Sharp, William H., assignor to Bauer & Black, Chicago, Ill. Formaldehyde-fumigator. No. 1,389,074; Aug. 30; v. 289; p. 852.

Sheer, Henry M., Quincy, Ill. Oil-control valve. No. 1,389,075; Aug. 30; v. 289; p. 852.

Sheffey, Billie M. (See McNeill, William M., assignor.)

Sheppy, Charles L., Buffalo, N. Y. Joint cover or protector. No. 1,389,224; Aug. 30; v. 289; p. 881.

Sherman, Francis M., Lewisport, Ky. Lawn-mower. No. 1,389,537; Aug. 30; v. 289; p. 944.

Shinn, Chester C. (See Urso, B., and Shinn.)

Shugers, George W., Los Angeles, Calif. Safety-razor-blade holder. No. 1,389,387; Aug. 30; v. 289; p. 914.

Shuster, Samuel L., and G. J. Riegert, St. Joseph, Mo. Automobile power-transmitting device. No. 1,389,167; Aug. 30; v. 289; p. 871.

Siert, Alvin H. (See Siert, John H., and A. H.)

Siert, John H. and A. H., Omaha, Nebr. Laundrying-machine. No. 1,389,388; Aug. 30; v. 289; p. 915.

Simmon, Karl A., Edgewood Park, Pa., assignor to Westinghouse Electric Manufacturing Company. Control apparatus. No. 1,389,105; Aug. 30; v. 289; p. 858.

Simons, Frederick W., Jr., New York, N. Y. Mud-guard. No. 1,389,014; Aug. 30; v. 289; p. 840.

Simpson, Clarence H., Front Royal, Va. Food product and making same. No. 1,389,389; Aug. 30; v. 289; p. 915.

Singer Manufacturing Company, The. (See Barron, W. L., and Osol, assignors.)

Singer Manufacturing Company, The. (See Gatchell, George S., assignor.)

Sisson, Vinton E., assignor to W. P. Murphy, Chicago, Ill. Railway-car construction. No. 1,388,901; Aug. 30; v. 289; p. 817.

Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Mining-locomotive. No. 1,389,076; Aug. 30; v. 289; p. 853.

Smeeton, Edward W., Long Island City, N. Y. Lamp. No. 1,389,077; Aug. 30; v. 289; p. 853.

Smith, Bernard L., Washington, D. C.; E. H. Barry, Newton, Mass., and A. H. Boettcher, Chicago, Ill., assignors to Government of the United States. Target-following bomb-sight. No. 1,389,555; Aug. 30; v. 289; p. 948.

Smith, James H., Saline, La. Combined cotton chopper and cultivator. No. 1,389,461; Aug. 30; v. 289; p. 929.

Smith, Joseph A., De Witt, Ark. Process and apparatus for polishing grain. No. 1,389,277; Aug. 30; v. 289; p. 892.

Smith, Lymus. (See Washington, George, assignor.)

Smith, Morman J., and B. F. Browder, Weatherford, Tex. Peanut-digger. No. 1,389,015; Aug. 30; v. 289; p. 841.

Societe Anonyme Des Appareils De Manutention Et Fours Stein. (See Stein, Charles M., assignor.)

Societe Chimique Des Usines Du Rhone (Anciennement Gilliard P. Monnet et Cartier.) (See Koetschet, J., and Beudet, assignors.)

Societe Darrasse Frères. (See Dupont, Lucien, assignor.)

Societe du Four Vertical Continu. (See Pieters, Julien, assignor.)

Society "Technochemia" Aktiengesellschaft. (See Schweitzer, Wilhelm H., assignor.)

Sousa, John R., Oakland, Calif. Laundry-distributing machine. No. 1,389,278; Aug. 30; v. 289; p. 893.

Southwell, Charles R., San Antonio, Tex. Filing-cabinet. No. 1,389,279; Aug. 30; v. 289; p. 893.

Sparling, Harry D., Walden, N. Y. Countersink-gage. No. 1,389,390; Aug. 30; v. 289; p. 915.

Spencer, Harold E., Gravesend, assignor to Hesco Limited, London, England. Lifting-truck. No. 1,389,225; Aug. 30; v. 289; p. 882.

Spinello, Mathew, Kansas City, Mo. Display device. No. 1,389,078; Aug. 30; v. 289; p. 853.

Spink, C. H., and V. D. Garna, Davenport, Iowa. Automatic restaurant. No. 1,388,975; Aug. 30; v. 289; p. 832.

Splitdorf Electrical Company. (See Dean, William W., assignor.)

Spotswood, Frank D. (See Hennegan, Paul M., assignor.)

Spreadbury, Earl R., Saugus, Mass. Wood-carving device. No. 1,389,462; Aug. 30; v. 289; p. 929.

Standard Electric Manufacturing Co. (See Parker, Thomas L., assignor.)

Starmer, Mary, Newport News, Va. Garment-supporter. No. 1,389,226; Aug. 30; v. 289; p. 882.

Staude, Edwin G., Minneapolis, Minn. Tractor. No. 1,389,079; Aug. 30; v. 289; p. 853.

Steele, Charles W. (See Stevens, W. C., and Steele.)

Steidle, Joseph P., Wilkes-Barre, Pa. Floor-wax. No. 1,389,391; Aug. 30; v. 289; p. 915.

Stein, Charles M., assignor to Societe Anonyme des Appareils de Manutention et Fours Stein, Paris, France. Annealing. No. 1,388,976; Aug. 30; v. 289; p. 832.

Stephens, Jay Q., Kansas City, Mo. Combination shipping, packing, and dispensing device. No. 1,388,977; Aug. 30; v. 289; p. 832.

Stephenson, Leigh J., assignor to W. T. Fenton, B. V. Becker, L. A. Williams, G. B. Burrage, and L. J. Stephenson, trustees, Chicago, Ill. System of motor control. No. 1,389,080; Aug. 30; v. 289; p. 852.

Stephenson, Leigh J., *et al*, trustees. (See Stephenson, L. J., assignor.)

Sternberg, Ralph B., and W. W. Webb, Chicago, Ill. Lubricator. No. 1,389,227; Aug. 30; v. 289; p. 882.

Steul and Thuman Company. (See Pohle, Frederick W., Jr., assignor.)

Stevens, William C., Summit county, and C. W. Steele, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Motor-tire-applying apparatus. No. 1,388,902; Aug. 30; v. 289; p. 817.

Stevenson, Charles M., Vancouver, British Columbia, Canada. Logging-engine. No. 1,389,324; Aug. 30; v. 289; p. 902.

Steward, John F., assignor, by mesne assignments, to F. Gerlach and A. B. Keller, trustees, Chicago, Ill. Device for raising a gang of plows. No. 1,388,978; Aug. 30; v. 289; p. 833.

Stewart, Alfred C., Los Angeles, Calif. Carbureter. No. 1,389,016; Aug. 30; v. 289; p. 841.

Stewart, Alfred C., Los Angeles, Calif. Reciprocating engine. No. 1,389,017; Aug. 30; v. 289; p. 841.

Stewart, Ora E., and M. K. Combine, Columbus, Ohio. Socket-wrench. No. 1,388,979; Aug. 30; v. 289; p. 833.

Stocker, Louis, Stithton, Ky. Yarn-winding machine. No. 1,389,392; Aug. 30; v. 289; p. 915.

Stocksick, Otto. (See Biesmeyer, L. F., and Stocksick.)

Stolle, Herman C., Davenport, Iowa. Elevator and holder for railway sleepers or ties. No. 1,389,393; Aug. 30; v. 289; p. 915.

Stolp, Frank H., assignor to Stolp Co., Inc., Geneva, N. Y. Tube-making machine. No. 1,388,903; Aug. 30; v. 289; p. 818.

Stolp Co., Inc. (See Stolp, Frank H., assignor.)

Stoneback, Samuel A., Philadelphia, Pa. Fuel-reclaiming apparatus. No. 1,389,394; Aug. 30; v. 289; p. 916.

Straube Piano Company. (See Betz, William G., assignor.)

Stretch, William F. (See Erwin, W. M., and Stretch.)

Stuart, Harve R., Springfield, Ohio. Cooling device for explosive engines. No. 1,389,395; Aug. 30; v. 289; p. 916.

Sturm, Andrew F., Nehawka, Nebr. Bed-spring and autocushion. No. 1,389,168; Aug. 30; v. 289; p. 871.

Sundby Battery Manufacturing Company. (See Sundby, John C., assignor.)

Sundby, John C., assignor to Sundby Battery & Manufacturing Company, Enderlin, N. D. Grid for storage batteries. No. 1,389,018; Aug. 30; v. 289; p. 841.

Sweet, Clifford G., San Diego, Calif. Washing-machine. No. 1,389,081; Aug. 30; v. 289; p. 854.

Swenson, Gustav, assignor to G. Peterson, New York, N. Y. Concrete-mold construction. No. 1,388,904; Aug. 30; v. 289; p. 818.

Sylvester, William W., Oakland, assignor to M. B. Moon, San Francisco, Calif. Railway-car. No. 1,389,396; Aug. 30; v. 289; p. 916.

Tabert, Alexander W., West Allis, and J. E. Tisdale, Milwaukee, Wis.; said Tisdale assignor to said Tabert. Spike-straightener. No. 1,389,228; Aug. 30; v. 289; p. 882.

Tactikos, Louis A., Greenwich, Conn. Heater. No. 1,389,397; Aug. 30; v. 289; p. 916.

Taglialbue, Charles J., Manufacturing Co. (See Roesch, Alfred, assignor.)

Talarico, Frank, Philadelphia, Pa. Talking-machine. No. 1,388,980; Aug. 30; v. 289; p. 833.

Taylor, Clarence L., assignor to The Morgan Engineering Company, Alliance, Ohio. Boring-lath. No. 1,388,905; Aug. 30; v. 289; p. 818.

Taylor, Willson B., Uniontown, Pa. Swing or hammock hanger. No. 1,389,538; Aug. 30; v. 289; p. 944.

Teitel, Albert, New York, N. Y., assignor to Cinema Patents Company, Chicago, Ill. Film-cleaning apparatus. No. 1,389,082; Aug. 30; v. 289; p. 854.

Ternstedt Manufacturing Company. (See Allmand, John T., assignor.)

Thacher, John J., Wethersfield, Conn., assignor to Pratt & Whitney Company, New York, N. Y. Cutter-grinding machine. No. 1,389,325; Aug. 30; v. 289; p. 902.

Thiery, Michael, Cincinnati, Ohio. Safety device for automobiles. No. 1,388,981; Aug. 30; v. 289; p. 833.

Thomas, Benjamin D., Ithaca, N. Y. Airplane. No. 1,389,106; Aug. 30; v. 289; p. 858.

Thompson, Charles E. (See Garman, Harry B., assignor.)

Thompson, Watson T., Pelham Manor, N. Y. Buffer for vehicles. No. 1,389,229; Aug. 30; v. 289; p. 883.

Thomson Meter Company. (See Lambert, Frank, assignor.)

Thyssen, Conrad, assignor to Rheinische Metallwarenfabrik Gebr. Schumacher, G. m. b. H., Aachen, Germany. Vise. No. 1,389,566; Aug. 30; v. 289; p. 950.

Tileston, George H., Chicago, Ill. Electromagnetic igniter. No. 1,389,280; Aug. 30; v. 289; p. 893.

Tisch, George C. L., assignor to Tisch Machine & Tool & Die Works, Inc., Elizabeth, N. J. Jacquard-drum. No. 1,389,398; Aug. 30; v. 289; p. 916.

Tisch Machine & Tool & Die Works. (See Tisch, George C. L., assignor.)

Tisdale, Junius E. (See Tabert, A. W., and Tisdale.)

Titan Company, A./S. (See Goldschmidt, Victor M., assignor.)

Title Insurance and Trust Company. (See Hanson, Earl C., assignor.)

Todd Protectograph Company. (See Payne, Walter B., assignor.)

Topping, Harry L. (See Lucier, Joseph W., assignor.)

Torchia, Julius C., Hazleton, Pa. Automatic starting and stopping mechanism for phonographs. No. 1,389,169; Aug. 30; v. 289; p. 871.

Torrey, Charles L., assignor of seventy per cent. to C. A. Sawyer and twenty-five per cent. to W. T. Alexander, San Jose, Calif. Burner-head. No. 1,389,107; Aug. 30; v. 289; p. 858.

Trace, Meyer, *et al.* (See Lazarus, M., and Davies, assignors.)

Tracy, Ernest B., Seattle, Wash. Can-cutter. No. 1,389,019; Aug. 30; v. 289; p. 842.

Trosch, Alfred, assignor to A. H. Ingle, Rochester, N. Y. Feed-screw support for machine-tools. No. 1,389,399; Aug. 30; v. 289; p. 917.

Tucker, Henry D., Avenel, N. J. Child's sand-box for play purposes. No. 1,389,020; Aug. 30; v. 289; p. 842.

Tucker, William, Fruitvale, Tex. Poultry-crate. No. 1,389,170; Aug. 30; v. 289; p. 871.

Tufts, Leighton L., Middleton, Mass. Automobile-skid. No. 1,389,400; Aug. 30; v. 289; p. 917.

Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,389,326; Aug. 30; v. 289; p. 902.

Turbayne, William A., assignor to U. S. Light & Heat Corporation, Niagara Falls, N. Y. System of electrical distribution. No. 1,389,463; Aug. 30; v. 289; p. 929.

Turner, Albert. (See Norton, C. H., and Turner.)

Turner, Thomas, assignor to Hardsocg Wonder Drill Company, Ottumwa, Iowa. Rock-drill. No. 1,389,539; Aug. 30; v. 289; p. 944.

U. S. Industrial Alcohol Co. (See Backhaus, A. A., and Arntz, assignors.)

U. S. Light & Heat Corporation. (See Turbayne, William A., assignor.)

Uebersetzig, Chris. (See Adler, P., and Uebersetzig, assignors.)

Ulmer, Theodore C. (See Dell, Albert, assignor.)

Umstead, Kennet. (See Maskrey, Alfred E., assignor.)

Underwood Computing Machine Company. (See Wernery, Lester A., assignor.)

Underwood Computing Machine Company. (See Whiting, Horatio, assignor.)

Underwood, Lois M., Dayton, Ohio. Kiln and operating the same. (Reissue.) No. 15,186; Aug. 30; v. 289; p. 951.

Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)

Underwood Typewriter Company. (See Wherry, John A., assignor.)

United Iron Works. See Yentman, John A., assignor.)

United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)

United Shoe Machinery Corporation. (See Bradford, Charles M., assignor.)

United Shoe Machinery Corporation. (See Brennan, William J., assignor.)

United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)

United Shoe Machinery Corporation. (See Coffey, John, assignor.)

United Shoe Machinery Corporation. (See Cosgrove, John W., assignor.)

United Shoe Machinery Corporation. (See Hill, George S., assignor.)

United Shoe Machinery Corporation. (See Horgan, Patrick J., assignor.)

United Shoe Machinery Corporation. (See Mackenzie, Fred L., assignor.)

Universal Interests Inc. (See Zieley, John D., assignor.)

Urso, Bendetto, Watson, assignor of one-half to C. C. Shinn, Fairmont, W. Va. Refrigerator. No. 1,389,171; Aug. 30; v. 289; p. 871.

Van Lynden, Robert Aernout Baron, Utrecht, Netherlands, assignor, by mesne assignments, to American Thermophone Company, Boston, Mass. Thermic telephone. No. 1,389,230; Aug. 30; v. 289; p. 883.

Van Lynden, Robert Aernout Baron. (See de Lange, P., and van Lynden.)

Van Nostrand, Charles H., Orange, and H. E. Schulse, Jersey City, N. J.; said Schulse assignor to said Van Nostrand. Fibrous filtering-film. No. 1,389,401; Aug. 30; v. 289; p. 917.

Vest, James M., Dehue, W. Va. Loading apparatus. No. 1,389,021; Aug. 30; v. 289; p. 842.

Victory Equipment Corporation. (See Robinson, Walter M., assignor.)

Vogel, John G., Hampton, Iowa. Ensilage-distributer. No. 1,389,402; Aug. 30; v. 289; p. 917.

Von Stein, Edna E., administratrix. (See Hollowell, Benjamin.)

Vuccassovich, Michel P., Wellesley, Mass. Red caviar and making and preserving the same. No. 1,388,982; Aug. 30; v. 289; p. 834.

Wackerly, Harry A., assignor to Morgan Engineering Company, Alliance, Ohio. Electric-motor-control system. No. 1,388,906; Aug. 30; v. 289; p. 818.

Wadsworth, Frank M., Minneapolis, Minn. Tooth-form finder. No. 1,389,022; Aug. 30; v. 289; p. 842.

Wagner, Frank, New York, N. Y. Floor-working machine. No. 1,388,983; Aug. 30; v. 289; p. 834.

Wagner, William L., Norfolk, Va. Vehicle elevating and supporting device. No. 1,389,403; Aug. 30; v. 289; p. 917.

Walker, Alexander, Wallsend-upon-Tyne, assignor of one-half to Drakes Limited, Ovenden, Halifax, England. Mechanism for screening or sifting granulated substances. No. 1,389,231; Aug. 30; v. 289; p. 883.

Walley, James J., assignor of one-half to C. R. Porter, Anoka, Minn. Brace for axle-housings in automotive cars. No. 1,389,083; Aug. 30; v. 289; p. 854.

Ward, Ernest, Independence, Mo. Nut-lock. No. 1,389,172; Aug. 30; v. 289; p. 872.

Waream, Charles E., Cincinnati, and D. H. Benjamin, Cleveland Heights, assignors to The American Laundry Machinery Company, Cincinnati, Ohio. Ironing-machine. No. 1,388,984; Aug. 30; v. 289; p. 834.

Warner, Frederick D., Middletown, N. Y. Mechanical starter for internal-combustion engines. No. 1,389,108; Aug. 30; v. 289; p. 858.

Warren, Al L. (See Wildhaber, F., and Warren.)

Washington, George, assignor of one-fourth to L. Smith, Anderson, Tex. Nail-staple for barbed wire. No. 1,389,540; Aug. 30; v. 289; p. 945.

Watkins Appliance Company. (See Watkins, William F., assignor.)

Watkins, John M., and F. Anderson, Montrose, Colo. Chain-fastener. No. 1,389,464; Aug. 30; v. 289; p. 929.

Watkins, William F., assignor to Watkins Appliance Company, Inc., Seattle, Wash. Snap-fastener. No. 1,389,173; Aug. 30; v. 289; p. 872.

Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,327; Aug. 30; v. 289; p. 902.

Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,328; Aug. 30; v. 289; p. 903.

Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,329; Aug. 30; v. 289; p. 903.

Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,330; Aug. 30; v. 289; p. 903.

Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,331; Aug. 30; v. 289; p. 903.

Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,332; Aug. 30; v. 289; p. 903.

Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,333; Aug. 30; v. 289; p. 904.

Watson, Leonard A., Brooklyn, assignor to The Safety Car Heating and Lighting Company, New York, N. Y. System of electrical distribution. No. 1,389,334; Aug. 30; v. 289; p. 904.

Watterworth, John A., Duluth, Minn. Pulling and holding device. No. 1,389,335; Aug. 30; v. 289; p. 904.

Weaver, Charles H., Beaumont, Tex. Train-line valve. No. 1,389,465; Aug. 30; v. 289; p. 930.

Webb, William W. (See Sternberg, R. B., and Webb.)

Webber, William, La Grange Ill., assignor, by mesne assignments, to International Harvester Company. Traction-wheel attachment. No. 1,388,985; Aug. 30; v. 289; p. 834.

Weber, Alexander, Los Angeles, Calif., assignor to Sawyer-Weber Tool Manufacturing Company. Crank-pin-turning tool. No. 1,389,541; Aug. 30; v. 289; p. 945.

Weible, Thurlow E., Chicago, Ill. Airplane-stabilizer. No. 1,388,907; Aug. 30; v. 289; p. 818.

Wellvar, George F., Williamsport, Pa. Woodworking-machine. No. 1,388,988; Aug. 30; v. 289; p. 835.

Wereley, Hilliard W., Bayonne, N. J. Leak-proof joint. No. 1,389,542; Aug. 30; v. 289; p. 945.

Wernery, Lester A., Brooklyn, assignor to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,389,232; Aug. 30; v. 289; p. 883.

West, Charles J., assignor to Reed Ekegren & Co., Harlem, Mont. Differential rack. No. 1,389,233; Aug. 30; v. 289; p. 883.

Western Electric Company. (See Polinkowsky, Lipa, assignor.)

Western Manufacturing Co. (See McMullin, Joseph B., assignor.)

Western Wheeled Scraper Company. (See Benbow, James D., assignor.)

Westinghouse Air Brake Company, The. (See Grosswege, John B., assignor.)

Westinghouse Air Spring Company. (See Sabo, Julius G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)

Westinghouse Electric & Manufacturing Company. (See Gysel, Max E., assignor.)

Westinghouse Electric and Manufacturing Company. (See Harlow, George, assignor.)

Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)

Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)

Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lovell, William Y. assignor.)

Westinghouse Electric & Manufacturing Company. (See McConahey, William M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Mateer, Jesse E., assignor.)

Westinghouse Electric & Manufacturing Company. (See Meyer, Harry R., assignor.)

Westinghouse Electric & Manufacturing Company. (See Rigsby, John P., assignor.)

Westinghouse Electric & Manufacturing Company. (See Simmon, Karl A., assignor.)

Westinghouse Electric and Manufacturing Company. (See Wilson, Charles E., assignor.)

Westinghouse Gear & Dynamometer Company. (See Schmidt, Henry F., assignor.)

Westinghouse Union Battery Company. (See Cook, Thomas R., assignor.)

Weston, John R., Dubuque, Iowa. Engine and radiator heater. No. 1,389,109; Aug. 30; v. 289; p. 859.

Wheat, Grant, assignor to Koehler Manufacturing Company, Marlboro, Mass. Storage battery. No. 1,389,174; Aug. 30; v. 289; p. 872.

Wheelock, John H., Worcester, Mass., assignor to Klaxon Company, Newark, N. J. Sound-producing device. No. 1,388,986; Aug. 30; v. 289; p. 834.

Wherry, John A., New Orleans, La., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,388,987; Aug. 30; v. 289; p. 835.

White, Barclay, Lansdowne, Pa. Reinforced concrete construction. No. 1,389,404; Aug. 30; v. 289; p. 918.

White, Glenn P., Ashtabula Harbor, Ohio. Engine. No. 1,389,466; Aug. 30; v. 289; p. 930.

White, John H., and E. J. Franklin, Hayden, Ariz. Tube-cleaning apparatus. No. 1,389,467; Aug. 30; v. 289; p. 930.

White, William R., Bristol, Pa. Safety pneumatic wrench. No. 1,389,468; Aug. 30; v. 289; p. 930.

Whiting, Horatio, assignor, by mesne assignments, to Underwood Computing Machine Company, New York, N. Y. Combined typewriting and computing machine. No. 1,389,234; Aug. 30; v. 289; p. 884.

Whitney Metal Tool Company. (See Jensen, John, assignor.)

Whittemore Bros. Corp. (See Pessels, Walter C., assignor.)

Wickersham, Roy D., Perry township, Marion county, Ind. Adjustable handle for percolators. No. 1,389,336; Aug. 30; v. 289; p. 904.

Wilcox, Walter, and C. LaDuke, Oconto, Nebr. Rod-puller. No. 1,389,469; Aug. 30; v. 289; p. 930.

Wildbaber, Fred, and A. L. Warren, Nowata, Okla. Demountable wheel-rim. No. 1,389,470; Aug. 30; v. 289; p. 931.

Williams, Arthur H. Minneapolis, Minn. Pneumato-electric switch for musical instruments and the like. No. 1,388,989; Aug. 30; v. 289; p. 835.

Williams, Herbert H., Brooklyn, N. Y. Refillable lubricating-cup. No. 1,389,405; Aug. 30; v. 289; p. 918.

Williams, James L., Pemberville, Ohio. Cotter-pin extractor. No. 1,389,406; Aug. 30; v. 289; p. 918.

Williams, Lynn A., *et al.*, trustees. (See Stephenson, Leigh J., assignor.)

Williams, William E., Chicago, Ill. Means for coördinating sound and motion-picture records. No. 1,389,407; Aug. 30; v. 289; p. 918.

Willard Storage Battery Company. (See Norris, Paul E., assignor.)

Wilputte, Louis, New Rochelle, assignor to American Dressler Tunnel Kilns, Inc., New York, N. Y. Tunnel-kiln air-heater. No. 1,389,408; Aug. 30; v. 289; p. 918.

Wilson, Charles E., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,389,110; Aug. 30; v. 289; p. 859.

Wilson, Lawson B., Washington, D. C. Non-conducting plastic composition or cement known as plastic enamel. No. 1,389,084; Aug. 30; v. 289; p. 854.

Wilson, Robert H., Indianapolis, Ind. Radiator-guard. No. 1,388,908; Aug. 30; v. 289; p. 819.

Wilson Welder & Metals Company. (See Churchward, Jack, assignor.)

Winchester Repeating Arms Co. (See Bullard, Edwin W., assignor.)

Winchester Repeating Arms Company. (See de Olaneta, Harold, assignor.)

Winestock, Otto C., Perkinsville, Vt. Apparatus for treating pulp. No. 1,389,281; Aug. 30; v. 289; p. 893.

Winn Company. (See Winn, Warner A., assignor.)

Winn, Warner A., assignor to Winn Company, Clarksville, Tenn. Implement for marking roof-rafter cuts. No. 1,389,556; Aug. 30; v. 289; p. 848.

Witkowski, Stanley J., Detroit, Mich. Lock. No. 1,389,409; Aug. 30; v. 289; p. 919.

Witte, Paul O., Minneapolis, Minn. Demountable-rim fastener. No. 1,389,410; Aug. 30; v. 289; p. 919.

Wolfard, Merl R., Cambridge, Mass. Internal-combustion engine. No. 1,389,337; Aug. 30; v. 289; p. 905.

Woodruff, Albert N., New York, N. Y. Copy-holder. No. 1,389,411; Aug. 30; v. 289; p. 919.

Woodworth, Donald C., Auburn, Me. Tire-opener. No. 1,388,909; Aug. 30; v. 289; p. 819.

Worth, George E., Rochester, N. Y. Metal wheel. No. 1,388,910; Aug. 30; v. 289; p. 819.

Wright, Dudley, Bankfield, Ulverston, England. Liquid-fuel burner. No. 1,389,412; Aug. 30; v. 289; p. 919.

Wright, Parvin, Chicago, Ill. Wire-tying machine. No. 1,389,413; Aug. 30; v. 289; p. 919.

Wright, Thomas, Grandview, Manitoba, Canada. Making-tobacco pouch. No. 1,389,175; Aug. 30; v. 289; p. 872.

Yager, George L., Oakland, Calif. Separator. No. 1,389,085; Aug. 30; v. 289; p. 854.

Yeatman, John A., assignor to United Iron Works, Oakland, Calif. Bore-hole pump. No. 1,389,414; Aug. 30; v. 289; p. 920.

Yingling, Harry C., Williamsport, Pa. Coupling device. No. 1,389,282; Aug. 30; v. 289; p. 893.

Yodges, Joseph F., Depew, N. Y. Hose-repairing tool. No. 1,389,086; Aug. 30; v. 289; p. 854.

Young, Eugene E., Syracuse, N. Y. Combined lubricator and humidifier. No. 1,389,176; Aug. 30; v. 289; p. 872.

Zahn, Joseph A., Cincinnati, Ohio. Shoe-heel. No. 1,389,087; Aug. 30; v. 289; p. 855.

Zaun, George F., San Bernardino, Calif. Collapsible-head wall-form. No. 1,389,543; Aug. 30; v. 289; p. 945.

Zawadzki, Anthony K., Wrightstown, N. J. Method of and apparatus for making webbed gloves. No. 1,389,283; Aug. 30; v. 289; p. 894.

Zebrowski, Alexander, Stamford, Conn. Shade-bracket. No. 1,389,415; Aug. 30; v. 289; p. 920.

Zertuche, José G., Mexico, Mexico. Non-slip device. No. 1,389,416; Aug. 30; v. 289; p. 920.

Zieley, John D., Summit, N. J., assignor, by mesne assignments to Universal Interests, Inc., New York, N. Y. Electric device. No. 1,389,235; Aug. 30; v. 289; p. 884.

Zukowski, Tony, Bristol, Conn. Multiple wrench. No. 1,389,417; Aug. 30; v. 289; p. 920.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

American Can Company. (See Hoffman, Edmund, assignor.)

American Encaustic Tiling Co. (See Lillibridge, Harry D., assignor.)

Arend, Armin C. H., Cincinnati, Ohio. Badge, pin, emblem, charm, or similar article. No. 58,695; Aug. 30; v. 289; p. 952.

Banks, John D., Colwyn, Pa., assignor to Victory Manufacturing Co., Audubon, N. J. Glare-shield for vehicles. No. 58,686; Aug. 30; v. 289; p. 952.

Baring, William J., Richmond, Calif. Tea or coffee pot. No. 58,697; Aug. 30; v. 289; p. 952.

Bassick Company, The. (See Herold, Walter F., assignor.)

Beaullieu, Peter F., assignor of one-half to E. C. Landingham, Bend, Oreg. Motormeter. No. 58,698; Aug. 30; v. 289; p. 952.

Beaver Machine & Tool Company. (See Streun, Louis J., assignor.)

Benson, Lester A. (See Woods, W. E., and Benson.)

Billmeyer, Fayette A., Pittsburgh, Pa. Toy. No. 58,699; Aug. 30; v. 289; p. 952.

Biva, Lucien, White Plains, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or similar article. Nos. 58,700–5; Aug. 30; v. 289; pp. 953–4.

Blanck & Company. (See Kilmalehto, Thyra O., assignor.)

Blanck & Company. (See Meyer, Felix, assignor.)

Boeger, George H., and J. L. Campbell, Minneapolis, Minn. Memorial button. No. 58,706; Aug. 30; v. 289; p. 954.

Bruder, Edmund, Chicago, Ill. Game-dial or similar article. Nos. 58,707–8; Aug. 30; v. 289; p. 954.

Bruns, Alfred E., Brooklyn, N. Y. Powder-container. No. 58,709; Aug. 30; v. 289; p. 955.

Bromley, Henry S., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 58,710; Aug. 30; v. 289; p. 955.

Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,711; Aug. 30; v. 289; p. 955.

Campbell, John L. (See Boeger, G. H., and Campbell.)

Cilley, Vrl I., Grand Rapids, Mich. Tail-light for vehicles. No. 58,712; Aug. 30; v. 289; p. 955.

Clements, Albert F., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. Nos. 58,713–14; Aug. 30; v. 289; p. 955.

Conama, William, Rochester, Minn. Billiard-table rail. No. 58,715; Aug. 30; v. 289; p. 955.

Conn, C. G., Ltd. (See Dotson, Ora, assignor.)

Conn, C. G., Ltd. (See Gulick, Edward J., assignor.)

Copeland, Charles A. (See Hartman, Louis H., assignor.)

Crompton & Knowles Loom Works. (See Regan, John, assignor.)

Cosgray, Mark C., assignor to The Matthews Engineering Company, Sandusky, Ohio. Electric automatic plant. No. 58,716; Aug. 30; v. 289; p. 956.

Costantino, Gasparo, Niagara Falls, Ontario, Canada. Cobbler's tool. No. 58,717; Aug. 30; v. 289; p. 956.

Cox Brass Manufacturing Company. (See Cox, William G., assignor.)

Cox, William G., Cleveland, Ohio, assignor to Cox Brass Manufacturing Company, Albany, N. Y. Automobile-bumper. No. 58,718; Aug. 30; v. 289; p. 956.

Dahl, Thure, New York, N. Y., assignor to Lightoller Company. Shade for lighting-fixtures. No. 58,719; Aug. 30; v. 289; p. 956.

Dahl, Thure, New York, N. Y., assignor to Lightoller Company. Bracket-back for lighting-fixtures. No. 58,720; Aug. 30; v. 289; p. 957.

Dahl, Thure, New York, N. Y., assignor to Lightoller Company. Bracket-arm for lighting-fixtures. No. 58,721; Aug. 30; v. 289; p. 957.

Dahl, Thure, New York, N. Y., assignor to Lightoller Company. Candle-cup for lighting-fixtures. No. 58,722; Aug. 30; v. 289; p. 957.

Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 58,723; Aug. 30; v. 289; p. 957.

Denis, May F., East Orange, N. J. Brush and broom holder. No. 58,724; Aug. 30; v. 289; p. 957.

Dodge, William W., assignor to National Veneer Products Company, Mishawaka, Ind. Butterfly garment-retainer for wardrobe-trunks. No. 58,725; Aug. 20; v. 289; p. 957.

Dodge, William W., assignor to National Veneer Products Company, Mishawaka, Ind. Oval garment-retainer for wardrobe-trunks. No. 58,726; Aug. 30; v. 289; p. 958.

Dotson, Ora, assignor to C. G. Conn, Ltd. Double horn. No. 58,727; Aug. 30; v. 289; p. 958.

Duda, August, Staunton, Ill. Spike. No. 58,728; Aug. 30; v. 289; p. 958.

Duda, August, Staunton, Ill. Link. No. 58,729; Aug. 30; v. 289; p. 958.

Duda, August, Staunton, Ill. Stranded link. No. 58,730; Aug. 30; v. 289; p. 958.

Eureka Vacuum Cleaner Company. (See Field, Egbert R., assignor.)

Fauser, Gustave M., New York, N. Y., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 58,731; Aug. 30; v. 289; p. 958.

Field, Egbert R., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich. Fan. No. 58,732; Aug. 30; v. 289; p. 959.

Field, Walter E., Providence, R. I. Collar-fastener. No. 58,733; Aug. 30; v. 289; p. 959.

Firestone Tire and Rubber Company, The. (See Meyer, Leroy E., assignor.)

Foley, Joseph J., Chicago, Ill. Automobile-door. No. 58,734; Aug. 30; v. 289; p. 959.

Franklin Knitting Mills. (See Worms, Sidney, assignor.)

Frati, Alfred, assignor to Titus Blatter & Company, New York, N. Y. Textile fabric or article of similar nature. No. 58,735; Aug. 30; v. 289; p. 959.

Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. No. 58,736; Aug. 30; v. 289; p. 959.

Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling-fixture. No. 58,737; Aug. 30; v. 289; p. 959.

Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric chandelier. Nos. 58,738–9; Aug. 30; v. 289; p. 960.

Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling fixture. No. 58,740; Aug. 30; v. 289; p. 960.

Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric wall-bracket. No. 58,741; Aug. 30; v. 289; p. 960.

Frerichs, Frederick A., assignor to The Horn & Brannen Manufacturing Co., Philadelphia, Pa. Electric ceiling fixture. No. 58,742; Aug. 30; v. 289; p. 960.

Friedlander, William S., Passaic, N. J., assignor to Tate Electrolytic Textile Processes, Incorporated, New York, N. Y. Cotton fabric for tents and the like. No. 58,743; Aug. 30; v. 289; p. 961.

Gedney, Stanley L., Maplewood, N. J. Collar-fastener. No. 58,744; Aug. 30; v. 289; p. 961.

Goodyear Tire & Rubber Company, The. (See Keith, Walter P., assignor.)

Gosliner, Elkan, San Francisco, Calif. Favor. No. 58,745; Aug. 30; v. 289; p. 961.

Gulick, Edward J., assignor to C. G. Conn, Ltd., Elkhart, Ind. Drum-hoop. Nos. 58,746–7; Aug. 30; v. 289; p. 961.

Hammond, William P. (See Hebig, Henry C., assignor.)

Harper, Edward F., Philadelphia, Pa. Phonograph-cabinet. No. 58,748; Aug. 30; v. 289; p. 962.

Hartman, Louis H., assignor of one-half to C. A. Copeland, Pittsburgh, Pa. Pack of game-cards. No. 58,749; Aug. 30; v. 289; p. 962.

Hebig, Henry C., Hempstead, N. Y., assignor to W. P. Hammond, Maplewood, N. J. Kiddie-car. No. 58,750; Aug. 30; v. 289; p. 962.

Heisey, A. H., & Co. (See Sanford, Andrew J., assignor.)

Herold, Walter F., Newark, N. J., assignor to The Bassick Company, Bridgeport, Conn. Truck-caster. No. 58,751; Aug. 30; v. 289; p. 962.

Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 58,752–5; Aug. 30; v. 289; p. 963.

Horn & Brannen Manufacturing Co., The. (See Frerichs, Frederick A., assignor.)

Hutchens, Ralph W., Eau Claire, Wis. Tire-tread or similar article. No. 58,756; Aug. 30; v. 289; p. 964.

International Silver Company. (See Kintz, Alfred G., assignor.)

Israel, Sidney M., Richmond Hill, N. Y. Sewer's electric-light stand. No. 58,757; Aug. 30; v. 289; p. 964.

Jacoby, Charles N. (See Richardson, D., and Jacoby.)

Jennings Brothers Manufacturing Company, The. (See Mosman, Charles S., assignor.)

Johnson, Bror, Glassport, assignor to United States Glass Company, Pittsburgh, Pa. Glass vase or similar article. No. 58,759; Aug. 30; v. 289; p. 964.

Johnston, William R., assignor to Wm. R. Johnston Mfg. Co., Chicago, Ill. Curtain-window for vehicles. Nos. 58,760–3; Aug. 30; v. 289; p. 965.

Johnston, Wm. R., Mfg. Co. (See Johnston, William R., assignor.)

Karger, David, Milwaukee, Wis. Knitted cap. No. 58,758; Aug. 30; v. 289; p. 964.

Keith, Walter P., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. No. 58,764; Aug. 30; v. 289; p. 965.

Kelsey, Harold R. and R. J., Pound, Wis. Casing for an electric fan. No. 58,765; Aug. 30; v. 289; p. 965.

Kelsey, Ralph J. (See Kelsey, Harold R. and R. J.)

Keystone Tire and Rubber Company. (See Whipple, Dorris W., assignor.)

King, William A., Memphis, Tenn. Automobile-body. No. 58,766; Aug. 30; v. 289; p. 966.

Kingman Manufacturing Company. (See Metts, Wallace, assignor.)
Kintz, Alfred G., assignor to International Silver Company, Wallingford, Conn. Handle for spoons, forks, or similar articles. No. 58,767; Aug. 30; v. 289; p. 966.
Kit-Chin-Kit Corporation. (See Lickert, John H., assignor.)
Knell, Benjamin F., Philadelphia, Pa. Combined implement for stringed musical instruments. No. 58,768; Aug. 30; v. 289; p. 966.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 58,769–71; Aug. 30; v. 289; p. 966.
Kumalehto, Thyra O., assignor to Blanck & Company, Inc., New York, N. Y. Lace. No. 58,772; Aug. 30; v. 289; p. 967.
Kuno, Richard, assignor to Rothschild-Kuno Button Works, Inc., New York, N. Y. Button. Nos. 58,773–5; Aug. 30; v. 289; p. 967.
L. & M. Rubber Company, The. (See Richards, Homer J., assignor.)
Landingham, E. C. (See Beaulieu, Peter F., assignor.)
Lapidus, Leon, Brooklyn, N. Y. Automobile-lamp. No. 58,776; Aug. 30; v. 289; p. 967.
Leicher, Fenton A., Luverne, Minn. Body for road-gravelers. No. 58,777; Aug. 30; v. 289; p. 968.
Lichtman, Abraham E., New York, N. Y. Tire-tread. No 58,778; Aug. 30; v. 289; p. 968.
Lickert, John H., assignor to Kit-Chin-Kit Corporation, Evanston, Ill. Carver-fork. No. 58,779; Aug. 30; v. 289; p. 968.
Lightolier Company. (See Dahl, Thure, assignor.)
Lillibridge, Harry D., assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio. Wall-receptacle. Nos. 58,780–3; Aug. 30; v. 289; pp. 968–9.
Lillibridge, Harry D., assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio. Wall corner-receptacle. No. 58,784; Aug. 30; v. 289; p. 969.
Lillibridge, Harry D., assignor to American Encaustic Tiling Co., Ltd., Zanesville, Ohio. Wall-receptacle. No. 58,785; Aug. 30; v. 289; p. 970.
Llufrio, Henry C., Providence, R. I. Collar-holder. No. 58,786; Aug. 30; v. 289; p. 970.
Ludwig, Alice N., Markville, Minn. Doll. No. 58,787; Aug. 30; v. 289; p. 970.
Lumber, Edwin F., Detroit, Mich., assignor to Morgan & Wright. Tire-tread. No. 58,788; Aug. 30; v. 289; p. 970.
Lyons, Robert W., Jefferson, Wis. Tire. No. 58,789; Aug. 30; v. 289; p. 970.
McGee, Hugh J., Seattle, Wash. Street-lighting device. No. 58,790; Aug. 30; v. 289; p. 971.
McHugh, Patrick J., Cincinnati, Ohio. Vehicle-tire. No. 58,791; Aug. 30; v. 289; p. 971.
Maier, John, and T. Rice, Canton, Ohio. Toy. Nos. 58,792–3; Aug. 30; v. 289; p. 971.
Maisel, Louis, Buffalo, N. Y. Telephone-support. No. 58,794; Aug. 30; v. 289; p. 971.
Mallory, George P., Yorklyn, Del., assignor to Sanitary Products Corporation of America, Philadelphia, Pa. Paper fork. No. 58,807; Aug. 30; v. 289; p. 974.
Martin, James, New York, N. Y. Pneumatic-tire shoe or tread. Nos. 58,795–6; Aug. 30; v. 289; p. 972.
Matthews Engineering Company, The. (See Cosgray, Mark C., assignor.)
Mayhew, James N., Minneapolis, Minn. Shoe-horn. No. 58,797; Aug. 30; v. 289; p. 972.
Metts, Wallace, assignor to Kingman Manufacturing Company, Stoughton, Mass. Gaiter. Nos. 58,798–800; Aug. 30; v. 289; p. 972.
Meyer, Felix, assignor to Blanck & Company, Inc., New York, N. Y. Lace. Nos. 58,802–3; Aug. 30; v. 289; p. 973.
Meyer, Leroy E., Cuyahoga Falls, Ohio, assignor to The Firestone Tire and Rubber Company, Cleveland, Ohio. Tire-tread. No. 58,801; Aug. 30; v. 289; p. 973.
Mills, Herbert S. (See Sandell, Henry K., assignor.)
Moffat, Frederick W., Weston, Ontario, Canada. Insulator-porcelain for electric ovens. Nos. 58,805–6; Aug. 30; v. 289; p. 974.
Moffat, Frederick W., Weston, Ontario, Canada. Insulator-support for electrical heating elements. No. 58,804; Aug. 30; v. 289; p. 973.
Morgan, Alfred P., Montclair, N. J. Instrument-mount for radiopanel. No. 58,808; Aug. 30; v. 289; p. 974.
Morgan & Wright. (See Lumber, Edwin F., assignor.)
Mosman, Charles S., Bridgeport, Conn., assignor to The Jennings Brothers Manufacturing Company. Base for a crucifix, candlestick, or similar article. Nos. 58,809–14; Aug. 30; v. 289; pp. 975–6.
Namiot, Charles B., New York, N. Y. Wedding-ring. No. 58,815; Aug. 30; v. 289; p. 976.
National Veneer Products Company. (See Dodge, William W., assignor.)
North American Lace Company. (See Bromley, Henry S., assignor.)
North American Lace Company. (See Daudy, Marc H., assignor.)
O'Rourke, Clement D., Dayton, Ohio. Combined newspaper-vending box and trash-receptacle. No. 58,816; Aug. 30; v. 289; p. 976.
Palmberg, Stone G., Chicago, Ill. Combination cutlery article. No. 58,817; Aug. 30; v. 289; p. 976.
Paull, Archibald W., assignor to Wheeling Stamping Company, Wheeling, W. Va. Percolator. No. 58,818; Aug. 30; v. 289; p. 977.
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
Pieper, Oscar H. and A. F., Rochester, N. Y. Dental-appliance panel. No. 58,819; Aug. 30; v. 289; p. 977.
Ramstein, William C., Los Angeles, Calif. Finger-ring. No. 58,820; Aug. 30; v. 289; p. 977.
Regan, John, New Bedford, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Drop-wire for loom stop-motion. No. 58,821; Aug. 30; v. 289; p. 977.
Reinert, Otto, St. Louis, Mo. Vegetable-cutter. No. 58,822; Aug. 30; v. 289; p. 977.
Reinhart, Ruby L., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 58,823–5; Aug. 30; v. 289; p. 978.
Rice, Thurman. (See Maier, J., and Rice.)
Richards, Homer J., assignor to The L. & M. Rubber Company, Carrollton, Ohio. Tire-tread. No. 58,826; Aug. 30; v. 289; p. 978.
Richardson, Corporation. (See Richardson, D., and Jacoby, assignors.)
Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Motor-vehicle. No. 58,827; Aug. 30; v. 289; p. 978.
Richardson, Durbin, and C. N. Jacoby, assignors to Richardson Corporation, Rochester, N. Y. Beverage-dispensing vehicle. No. 58,828; Aug. 30; v. 289; p. 978.
Rode, Frank S., Jeannette, Pa. Game-board. No. 58,829; Aug. 30; v. 289; p. 979.
Roesler, Frank J. (See Roesler, Richard and F. J.)
Roesler, Richard and F. J., Chicago, Ill. Christmas-tree support. No. 58,830; Aug. 30; v. 289; p. 979.
Rothschild-Kuno Button Works. (See Kuno, Richard, assignor.)
Sanford, Andrew J., assignor to A. H. Heisey & Co., Newark, Ohio. Bowl. Nos. 58,832–3; Aug. 30; v. 289; p. 979.
Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Phonograph tone-arm. No. 58,834; Aug. 30; v. 289; p. 979.
Sanitary Products Corporation of America. (See Mallory, George P., assignor.)
Sherman, Charles H., North Attleboro, Mass. Slide for ribbon waldemar, sautoir, or the like. No. 58,835; Aug. 30; v. 289; p. 980.
Simplex Alarm Company. (See West, Merle J., assignor.)
Sokolsky, Selma, New York, N. Y., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 58,836; Aug. 30; v. 289; p. 980.
Sperling, Louis. (See Van Osdel, William J., assignor.)
Steeg, Frederick L., assignor to Thermo Clock Sign Co., Chicago, Ill. Advertising device. No. 58,837; Aug. 30; v. 289; p. 980.
Stewart-Warner Speedometer Corporation. (See Whittington, Frederik G., assignor.)
Streun, Louis J., assignor to Beaver Machine & Tool Company, Newark, N. J. Pendant switch. No. 58,838; Aug. 30; v. 289; p. 980.
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Susquehanna Silk Mills. See Krupicka, Ella, assignor.)
Susquehanna Silk Mills. (See Reinhart, Ruby L., assignor.)
Tate Electrolytic Textile Processes. (See Friedlander, William S., assignor.)
Thayer, Herbert A., Providence, R. I. Frame for holding a number-plate and another designating device. No. 58,839; Aug. 30; v. 289; p. 980.
Thermo Clock Sign Co. (See Steeg, Frederick L., assignor.)
Thompson, Henry L., Philadelphia, Pa. Carpet. No. 58,840; Aug. 30; v. 289; p. 981.
Thompson, Mary W., executrix. (See Thompson, Robert R.)
Thompson, Robert R., deceased, by M. W. Thompson, executrix, Los Angeles, Calif. Signal. No. 58,841; Aug. 30; v. 289; p. 981.
Titus Blatter & Company. (See Biva, Lucein, assignor.)
Titus Blatter & Company. (See Frati, Alfred, assignor.)
Van de Wall, Constant, New York, N. Y., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. No. 58,842; Aug. 30; v. 289; p. 981.
Van Osdel, William J., assignor of one-half to L. Sperling, Chicago, Ill. Handle for a hair-cutter. No. 58,843; Aug. 30; v. 289; p. 981.
Victory Manufacturing Co. (See Banks, John D., assignor.)
Wade, William M., Topeka, Kans. Advertising-cabinet. No. 58,844; Aug. 30; v. 289; p. 981.
Waite Grass Carpet Company. (See Clements, Albert F., assignor.)
Waite Grass Carpet Company. (See Fauser, Gustave M., assignor.)
Waite Grass Carpet Company. (See Sokolsky, Selma, assignor.)
Waite Grass Carpet Company. (See van de Wall, Constant, assignor.)
Waite Grass Carpet Company. (See Wight, Blanche L., assignor.)

Wegman, Ulric, Ithaca, N. Y. Headlight-lens. No. 58,845; Aug. 30; v. 289; p. 982.
West, Merle J., assignor to Simplex Alarm Company, Milwaukee, Wis. Gong-casing. No. 58,846; Aug. 30; v. 289; p. 982.
Wheeling Stamping Company. (See Paull, Archibald W., assignor.)
Whipple, Dorris W., assignor to Keystone Tire and Rubber Company, New York, N. Y. Rubber tire. No. 58,847; Aug. 30; v. 289; p. 982.
Whittington, Frederik G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Radiator-cap. No. 58,848; Aug. 30; v. 289; p. 982.
Wight, Blanche L., Oak Park, Ill., assignor to Waite Grass Carpet Company, Oshkosh, Wis. Grass rug. Nos. 58,849–55; Aug. 30; v. 289; pp. 982–3.
Williams, William E., Chicago, Ill. Disk for disk wheels. No. 58,856; Aug. 30; v. 289; p. 983.
Wishnefsky, Nathan, Philadelphia, Pa. Scarf. No. 58,857; Aug. 30; v. 289; p. 984.
Wolf, Morris, New York, N. Y. Sifter-top receptacle. No. 58,858; Aug. 30; v. 289; p. 984.
Woods, William E., and L. A. Benson, St. Louis, Mo. Casing for a rotary spark-gap. No. 58,859; Aug. 30; v. 289; p. 984.
Worms, Sidney, New Rochelle, assignor to Franklin Knitting Mills, New York, N. Y. Knitted or netted fabric. No. 58,860; Aug. 30; v. 289; p. 984.
Wright, Bartholomew O., New Rochelle, N. Y. Umbrella and parasol tip. No. 58,861; Aug. 30; v. 289; p. 984.
Yokel, Frank, Hartford, Conn. Toy bank. No. 58,862; Aug. 30; v. 289; p. 984.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Abrams, Albert M., Boise, Idaho. Anesthetic for use in dentistry. No. 146,060; Aug. 30; v. 289; p. 1013.
Adams, George C., Garden City and Farmingdale, N. Y. Vehicles—namely, automobile camp-cars and trailers. No. 146,061; Aug. 30; v. 289; p. 1013.
Alcohol Products Company, Newark, N. J. Solutions. No. 146,062; Aug. 30; v. 289; p. 1013.
Altman, B., & Co., New York, N. Y. Silk piece goods. No. 146,063; Aug. 30; v. 289; p. 1013.
American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y. Sugar. No. 146,064; Aug. 30; v. 289; p. 1013.
Bates & Abbott, Boston, Mass. Table-salt. No. 146,066; Aug. 30; v. 289; p. 1013.
Bennett, Fred S., Inc., New York, N. Y. Cotton, drills, twills in the piece. No. 146,067; Aug. 30; v. 289; p. 1013.
Bob-Betty Belongings, Carlsbad, Calif. Toys. No. 146,068; Aug. 30; v. 289; p. 1013.
Calco Chemical Company, The, Boundbrook, N. J. Chemical, mineral, and vegetable substances. No. 146,069; Aug. 30; v. 289; p. 1013.
Clapp Products Company, Boston, Mass. Sulfur-terpene compounds and solutions. No. 146,071; Aug. 30; v. 289; p. 1013.
Cleveland Flux Company, The, Cleveland, Ohio. Mineral fluxes. No. 146,072; Aug. 30; v. 289; p. 1013.
Coger, Tucker and Cheney, Inc., Corning, N. Y. Self-rising pancake-flour. No. 146,073; Aug. 30; v. 289; p. 1013.
Cook-Welker-Hire Co., Fort Wayne, Ind. Assorted hard and cream candies, chocolates, and candy-bar goods. No. 146,074; Aug. 30; v. 289; p. 1013.
Cosby, W. M., Flour & Grain Co., Birmingham, Ala. Chicken and dairy feeds, laying and growing mashes, horse and hog feeds. No. 146,075; Aug. 30; v. 289; p. 1013.
Delson Chemical Co. Inc., The, Brooklyn, N. Y. Pharmaceutical preparation for treatment of throat, lung, &c. No. 146,080; Aug. 30; v. 289; p. 1013.
Delson Chemical Co., Inc., The, Brooklyn, N. Y. Medicinal preparation for the treatment for general and chronic constipation. No. 146,079; Aug. 30; v. 289; p. 1013.
Dorfman, Meyer, New York, N. Y. Jersey-cloth in the piece. No. 146,081; Aug. 30; v. 289; p. 1013.
Dry Oil Products, Ltd., London, England, and New York and Trout Creek, N. Y. Dry pulverulent mixtures employed as a shortening agent in cooking. No. 146,082; Aug. 30; v. 289; p. 1013.
Eckstein, Joseph, Inc., New York, N. Y. Woolen and woolen and silk piece goods. No. 146,083; Aug. 30; v. 289; p. 1013.
Edelen, James H., Oakland, Calif. Liquid ant-exterminator. No. 146,084; Aug. 30; v. 289; p. 1013.
Edson Moore & Company, Detroit, Mich. Manufactured blankets. No. 146,085; Aug. 30; v. 289; p. 1013.
Emerson, James G., Erie, Pa. Hair-tonic. No. 146,086; Aug. 30; v. 289; p. 1014.
Enterprise Dry Yeast Corporation, New York, N. Y. Medicinal yeast. No. 146,087; Aug. 30; v. 289; p. 1014.
File, Mosella, Winston-Salem, N. C. Hair-grower. No. 146,088; Aug. 30; v. 289; p. 1014.
Finlayson, Estelle B., Ossining, N. Y. Liquid face-powder. No. 146,090; Aug. 30; v. 289; p. 1014.
Fluegelman, N., & Co., Inc., New York, N. Y. Cotton and cotton and silk mixture piece goods. No. 146,089; Aug. 30; v. 289; p. 1014.
Fontaine, Louis H., Worcester, Mass. Insecticides. No. 146,091; Aug. 30; v. 289; p. 1014.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 146,092–7; Aug. 30; v. 289; p. 1014.
Franco, Agnes M., Philadelphia, Pa. Facial masks or packs. No. 146,098; Aug. 30; v. 289; p. 1014.
Frederick Stearns & Co., Detroit, Mich. Perfumes, toilet waters, and face-powders. No. 146,145; Aug. 30; v. 289; p. 1015.
Frederick Stearns & Co., Detroit, Mich. Medicines. No. 146,144; Aug. 30; v. 289; p. 1015.
Garrison-Cook Candy Co., Macon, Ga. Stick-candy. No. 146,099; Aug. 30; v. 289; p. 1014.
Globe Grain & Milling Co., Los Angeles, Calif. Foods and ingredients of foods. No. 146,100; Aug. 30; v. 289; p. 1014.
Goodenuf Milling & Feed Co., Minneapolis, Minn. Stock and poultry food. No. 146,101; Aug. 30; v. 289; p. 1014.
Griffin, Carman J., St. Louis, Mo. Concentrated maltless syrup. No. 146,102; Aug. 30; v. 289; p. 1014.
Haas Brothers Fabrics Corporation, New York, N. Y. Woolen, cotton, and linen fabrics in the piece, and combinations thereof. No. 146,109; Aug. 30; v. 289; p. 1014.
Hawaiian Fruit Products Company Limited, Honolulu, Hawaii. Fruit jams, jellies, and preserves, dried bananas, &c. No. 146,105; Aug. 30; v. 289; p. 1014.
Heinrich Chemical Company, Minneapolis, Minn. Perfumes, toilet waters, and creams, tissue-tonics, &c. No. 146,104; Aug. 30; v. 289; p. 1014.
Herboline Company, Los Angeles, Calif. Salve for piles. No. 146,108; Aug. 30; v. 289; p. 1014.
Highland Apple Company, Underwood, Wash. Apple-butter. No. 146,103; Aug. 30; v. 289; p. 1014.
Hodge, Noah, Los Angeles, Calif. Liniment. No. 146,107; Aug. 30; v. 289; p. 1014.
Holden-Leonard Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 146,110; Aug. 30; v. 289; p. 1014.
Houbigant, Inc. (See Parfumerie Houbigant, assignor.)
Huston, James K., McKinney, Ky. Liniment for the treatment of burns, sprains, sores, &c. No. 146,106; Aug. 30; v. 289; p. 1014.
Johnson Cowdin & Co. Inc., New York, N. Y. Ribbons and silks, satins, and mixtures in the piece. Nos. 146,076–8; Aug. 30; v. 289; p. 1013.
Kiesling, A. E., Houston, Tex. Toilet preparations and the like. No. 146,112; Aug. 30; v. 289; p. 1014.
Kayatta, Joseph P., Providence, R. I. Medicinal preparation taken as a tonic. No. 146,111; Aug. 30; v. 289; p. 1014.
Lecian's, Paducah, Ky. Hair-pomade and treating-oil. No. 146,114; Aug. 30; v. 289; p. 1014.
Logan, John F., San Francisco, Calif. Pile remedy. No. 146,113; Aug. 30; v. 289; p. 1014.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 146,115; Aug. 30; v. 289; p. 1014.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 146,118; Aug. 30; v. 289; p. 1015.
Marlet Company, The, Chicago, Ill. Face cream and powder, tooth-paste, rouge, &c. No. 146,117; Aug. 30; v. 289; p. 1014.
Merck & Co., New York, N. Y. Preparation of chlorophyl in tablet form. No. 146,116; Aug. 30; v. 289; p. 1014.
Michigan Chemical Company, Essexville, Mich. Compounds for use in the vulcanization of rubber. No. 146,119; Aug. 30; v. 289; p. 1015.
New England Confectionery Company, Boston, Mass. Candy. No. 146,122; Aug. 30; v. 289; p. 1015.
Nicolait, Eugene B., Brooklyn, N. Y. Bakers' products—viz., bread. No. 146,120; Aug. 30; v. 289; p. 1015.
North American Dye Corporation, Mount Vernon, N. Y. Dyes. No. 146,121; Aug. 30; v. 289; p. 1015.
Pacific Mills, Lawrence and Boston, Mass. Cotton piece goods. Nos. 146,126–7; Aug. 30; v. 289; p. 1015.
Paragon Binder Corporation, New York, N. Y., and Newark, N. J. Binders for loose sheets of paper, &c. No. 146,123; Aug. 30; v. 289; p. 1015.
Parfumerie Houbigant, Paris, France, assignors to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, sachet, and sachet-powders. Nos. 146,128; Aug. 30; v. 289; p. 1015.
Parfumerie Lournay, Inc., New York, N. Y. Toilet preparations—viz., face-powder. Nos. 146,129–32; Aug. 30; v. 289; p. 1015.
Peca, Geo., Chicago, Ill. Liniment for the treatment of rheumatism. No. 146,124; Aug. 30; v. 289; p. 1015.
Peerless Food Manufacturing Co., Pittsburgh, Pa. Vinegar, sauer-kraut, pickles, jams, &c. No. 146,133; Aug. 30; v. 289; p. 1015.
Portland Flouring Mills Co., The, Portland, Oreg. Self-rising wheat-flour. No. 146,125; Aug. 30; v. 289; p. 1015.

Raabe & Bowman, Philadelphia, Pa. Cathartics and purgatives. No. 146,135; Aug. 30; v. 289; p. 1015.
Rippenbein, Nicholas, New York, N. Y. Digestive medicine. No. 146,134; Aug. 30; v. 289; p. 1015.
Root & Company, Chicago, Ill. Phonographs, graphophones, and talking-machines. No. 146,136; Aug. 30; v. 289; p. 1015.
Saint, Mrs. Charles, Kaplan, La. Partly-prepared rice in package form. No. 146,138; Aug. 30; v. 289; p. 1015.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 146,139; Aug. 30; v. 289; p. 1015.
Schmid, Julius, Incorporated, New York, N. Y. Face-powders, rouges, eyebrow-pencils, &c. No. 146,140; Aug. 30; v. 289; p. 1015.
Schoenholz, Rosa, San Francisco, Calif. Hair-remover and face-cleanser. No. 146,137; Aug. 30; v. 289; p. 1015.
Shterk, John, Eveleth, Minn. Salve for blood-poison and skin diseases. No. 146,141; Aug. 30; v. 289; p. 1015.
Southwestern Milling Company, Inc., The, New York, N. Y. Wheat-flour. No. 146,142; Aug. 30; v. 289; p. 1015.
Spoehr's, Chicago, Ill. Candy. No. 146,143; Aug. 30; v. 289; p. 1015.
Stehli Silks Corporation, New York, N. Y. Silks in the piece. No. 146,146; Aug. 30; v. 289; p. 1015.
Stephania Ario, Brooklyn, N. Y. Preparation for the treatment of lumbago and rheumatism. No. 146,065; Aug. 30; v. 289; p. 1013.
Stucker, John M., Rosedale, Kans. Self-vulcanising tire-patches. No. 146,147; Aug. 30; v. 289; p. 1015.
T. B. Chemical Company, Newark, N. J. Antitoxin for white corpuscles of the blood. No. 146,070; Aug. 30; v. 289; p. 1013.
Tinctorial Company, The, Denver, Colo. Dye for changing the color of leather to a deep black. No. 146,148; Aug. 30; v. 289; p. 1015.
Trasso, Anthony J., New York, N. Y. Medicinal preparation for the hair and scalp. No. 146,149; Aug. 30; v. 289; p. 1015.
Trego Doll Mfg. Co., Inc., New York, N. Y. Dolls. No. 146,150; Aug. 30; v. 289; p. 1016.
U. S. Mop Company, The, Toledo, Ohio. Furniture and automobile polish. No. 146,152; Aug. 30; v. 289; p. 1016.
Ungerer & Company, Inc., New York, N. Y. Natural oil of flowers, leaves, roots, stems, and gums used for scenting purposes. No. 146,153; Aug. 30; v. 289; p. 1016.
United Medico-Chemi Hospital, Inc., Richmond, Va. Tonic compound for treating indigestion, dyspepsia, &c. No. 146,151; Aug. 30; v. 289; p. 1016.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Allen Auto Specialty Co., The, New York, N. Y. "Allen Tire Case." (For Cases for Automobile-Tires.) Nos. 23,252–5; Aug. 30; v. 289; p. 1019.
Amend, Fred W., Co., Chicago, Ill. "Marshmallow Cream Corn." (For Confectionery-Containers.) No. 23,256; Aug. 30; v. 289; p. 1019.
American Wire Fabrics Company, Chicago, Ill. "Screen Wire Cloth." (For Screen Wire-Cloth.) No. 23,257; Aug. 30; v. 289; p. 1019.
American Wire Fabrics Company, Chicago, Ill. "American Brand." (For Screen Wire-Cloth.) No. 23,258; Aug. 30; v. 289; p. 1019.
Anheuser-Busch, Incorporated, St. Louis, Mo. "Buschtee." (For Carbonated Tea Beverage.) No. 23,259; Aug. 30; p. 289; p. 1019.
Anheuser-Busch, Incorporated, St. Louis, Mo. "Kaffo." (For Carbonated Coffee Beverage.) No. 23,260; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Violette Petales." (For Talcum Powder.) No. 23,261; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Depilatory." (For Preparation for Removing Hair.) No. 23,262; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Scalpinol." (For Hair Tonic and Invigorant.) No. 23,263; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Wrinkle Eradicator." (For Preparation for Removing Wrinkles from the Skin.) No. 23,264; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Red Rose." (For Talcum Powder.) No. 23,265; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Pure Bland Soap." (For Toilet Soap.) No. 23,266; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Hand Lotion." (For Lotion for Hands.) No. 23,267; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Old English Lavender Shampoo." (For Preparation for Cleaning the Hair.) No. 23,268; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Skin and Tissue Builder." (For Preparations for the Skin and Tissues and Massage-Cream.) No. 23,269; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Skin Whitener." (For a Preparation for Whitening the Skin.) No. 23,270; Aug. 30; v. 289; p. 1019.
Ayer, Harriet Hubbard, New York, N. Y. "Deodorizer." (For Preparations for Destroying Odor of Perspiration.) No. 23,271; Aug. 30; v. 289; p. 1019.
Blackstone, Alex, Newark, N. J. "Tru-Lax." (For Boxes Containing True Chocolate Laxatives.) No. 23,272; Aug. 30; v. 289; p. 1019.
Bohannan, Wilson, Inc., Brooklyn, N. Y. "Bohannan." (For Locks.) No. 23,273; Aug. 30; v. 289; p. 1019.
Brach, E. J., & Sons, Chicago, Ill. "Brach's Fruits and Nuts in Cream Chocolate Covered." (For Candy.) No. 23,274; Aug. 30; v. 289; p. 1019.
Brach, E. J., & Sons, Chicago, Ill. "Brach's Chocolates Six Favorite Selections." (For Candy.) No. 23,275; Aug. 30; v. 289; p. 1019.
Brach, E. J., & Sons, Chicago, Ill. "Brilliant Hard Mixture." (For Candy.) No. 23,276; Aug. 30; v. 289; p. 1019.
Brown, Arthur A., St. Louis, Mo. "Neo-Balsam Compound." (For Packages Containing Filling Material for Filling the Root-Canals of Teeth.) No. 23,277; Aug. 30; v. 289; p. 1019.
Cheek-Neal Coffee Company, Nashville, Tenn. "Maxwell House, Good to the Last Drop." (For Coffee.) No. 23,278; Aug. 30; v. 289; p. 1019.
Cleanall Chemical Company, Chicago, Ill. "Cleanall." (For Cleaning compounds.) No. 23,279; Aug. 30; v. 289; p. 1019.
Del-Wit, W. D., Oakwood Heights, N. Y. "Kina-Tone." (For Bottles Containing Kina-Tone.) No. 23,280; Aug. 30; v. 289; p. 1019.
Fitzpatrick Bros., Chicago, Ill. "Hurts Only Dirt." (For Cleaning and Scouring Compound for Household Use and for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, &c.) No. 23,281; Aug. 30; v. 289; p. 1019.
Gaynor Manufacturing Company, The, Bridgeport, Conn. "The Gaynor Light Control." (For Electric-Light-Control Switches.) No. 23,282; Aug. 30; v. 289; p. 1019.
George, F. H., & Company. (See Menasha Printing and Carton Company, assignor.)
Glemby's, S., Sons Co., Inc., New York, N. Y. "Glemby Hair Net." (For Hair-Nets.) No. 23,283; Aug. 30; v. 289; p. 1019.
Glemby's, S. Sons Co., Inc., New York, N. Y. "Samsonet, the Strength is in the Hair." (For Hair-Nets.) No. 23,284; Aug. 30; v. 289; p. 1019.
Glemby, S., Inc., New York, N. Y. "Lovelee Hair Net." (For Hair-Nets.) No. 23,285; Aug. 30; v. 289; p. 1019.
Glemby, S., Inc., New York, N. Y. "Lorraine Hair Net." (For Hair-Nets.) No. 23,286; Aug. 30; v. 289; p. 1019.
Glemby, S., Inc., New York, N. Y. "Regina Hair Net." (For Hair-Nets.) No. 23,287; Aug. 30; v. 289; p. 1019.
Glemby, S., Inc., New York, N. Y. "Jean the Superior Hair Net." (For Hair-Nets.) No. 23,288; Aug. 30; v. 289; p. 1019.
Heller, B., & Co., Chicago, Ill. "Jansiharine." (For a Preparation for Coloring Ham and Sausage Strings.) No. 23,289; Aug. 30; v. 289; p. 1019.
Heller, B., & Co., Chicago, Ill. "Bakers' Friend." (For Containers Holding Bakers' Friend, a Flavoring Compound.) No. 23,290; Aug. 30; v. 289; p. 1019.
Heller, B., & Co., Chicago, Ill. "Lemon-Zest." (For Containers Holding Lemon-Zest, a Lemon Flavoring Compound.) No. 23,291; Aug. 30; v. 289; p. 1019.
Heller, B., & Co., Chicago, Ill. "Auto Glo." (For Containers Holding Auto Glo, a Polish for Automobile-Bodies, and All Highly-Finished Surfaces.) No. 23,292; Aug. 30; v. 289; p. 1020.
Heller, B., & Co., Chicago, Ill. "Heller's Van-Boquet." (For Containers Holding Heller's Van-Boquet, a Flavoring Preparation for Ice-Cream, Confectionery, Candy, and Pastry.) No. 23,293; Aug. 30; v. 289; p. 1020.
Heller, B., & Co., Chicago, Ill. "$1000.00 Guaranteed Bed Bug Killer." (For Insecticide for Destroying Bedbugs, Mites, Ticks, Poultry-Lice, Ants, and other Insects.) No. 23,294; Aug. 30; v. 289; p. 1020.
Herman, Henry, Mitchell, S. D. "The Palace Cigar." (For Cigars.) No. 23,295; Aug. 30; v. 289; p. 1020.
Hershey Creamery Company. (See Menasha Printing and Carton Company, assignor.)
Hymson, Charles E., Louisville, Ky. "Crane." (For Overalls.) No. 23,296; Aug. 30; v. 289; p. 1020.
Kanto Company, The, Canton, Ohio. "Kanto." (For Packages Containing a Remedy for Leucorrhea.) No. 23,297; Aug. 30; v. 289; p. 1020.
Kirkman & Son, Brooklyn, N. Y. "Kirkman's Floating Soap." (For Wrapper for a Floating Soap for Toilet and Bath.) No. 23,298; Aug. 30; v. 289; p. 1020.
Klein, Joseph L., St. Louis, Mo. "Little Brown Jug." (For Syrup for Food Purposes.) No. 23,299; Aug. 30; v. 289; p. 1020.
Manville Company, Providence, R. I. "Manville Ruffit Cloth." (For Piece Goods.) Nos. 23,300–2; Aug. 30; v. 289; p. 1020.
Matthews, Henry P., Baltimore, Md. "Cloverfield." (For Butter.) No. 23,303; Aug. 30; v. 289; p. 1020.

May, Clarence, Chicago, Ill. "Playhouse." (For candy.) No. 23,304; Aug. 30; v. 289; p. 1020.
Menasha Printing and Carton Company, Menasha, Wis., assignor to F. H. George & Company, Fort Wayne, Ind. "Rosemary." (For Cartons Containing Butter.) No. 23,305; Aug. 30; v. 289; p. 1020.
Menasha Printing and Carton Company, Menasha, Ind., assignor to Hershey Creamery Company, Harrisburg, Pa. "Hershey's Superior Creamery Butter." (For Cartons Containing Butter.) No. 23,306; Aug. 30; v. 289; p. 1020.
Milwaukee Paper Box Company, Milwaukee, Wis. "Sundial Chocolates." (For Boxes Containing Cream Caramels, Nut Centers, Chewing-Chocolates, and Mellow Centers.) No. 23,307; Aug. 30; v. 289; p. 1020.
Milwaukee Paper Box Company, Milwaukee, Wis. "Greysolon." (For Boxes Containing Hand-Rolled Bitter Sweets.) No. 23,308; Aug. 30; v. 289; p. 1020.
Milwaukee Paper Box Company, Milwaukee, Wis. "Rosalie." (For Boxes Containing Chocolate Candy.) No. 23,309; Aug. 30; v. 289; p. 1020.
Milwaukee Paper Box Company, Milwaukee, Wis. "Gordon's Chocolates." (For Boxes Containing Chocolate Candy.) No. 23,310; Aug. 30; v. 289; p. 1020.
National Carbon Company, Inc., New York, N. Y. "Eveready Ford Lighting Battery." (For Electric Batteries.) No. 23,311; Aug. 30; v. 289; p. 1020.
National Carbon Company, Inc., New York, N. Y. "Eveready Ford Ignition Battery." (For Electric Batteries.) No. 23,312; Aug. 30; v. 289; p. 1020.
National Carbon Company, Inc., New York, N. Y. "Eveready Gas Engine Battery." (For Electric Batteries.) No. 23,313; Aug. 30; v. 289; p. 1020.
National Carbon Company, Inc., New York, N. Y. "Eveready Portable Lighting Battery." (For Electric Batteries.) No. 23,314; Aug. 30; v. 289; p. 1020.
National Carbon Company, Inc., New York, N. Y. "Eveready Tractor Battery." (For Electric Batteries.) No. 23,315; Aug. 30; v. 289; p. 1020.
National Carbon Company, Inc., New York, N. Y. "Eveready Lighting and Ignition Battery." (For Electric Batteries.) No. 23,316; Aug. 30; v. 289; p. 1020.
Newark Paraffine & Parchment Paper Co., Newark, N. J., Columbus, Ohio, and New York, N. Y. "Graham Bread." (For Bread.) No. 23,317; Aug. 30; v. 289; p. 1020.
Northrup, King & Co., Minneapolis, Minn. "Sterling Dairy Feed." (For Bags of Dairy Feed.) No. 23,318; Aug. 30; v. 289; p. 1020.
Northrup, King & Co., Minneapolis, Minn. "Sterling Scratch Feed." (For Bags of Poultry Feed.) No. 23,319; Aug. 30; v. 289; p. 1020.
Northrup, King & Co., Minneapolis, Minn. "Sterling Egg Mash." (For Bags of Poultry Feed.) No. 23,320; Aug. 30; v. 289; p. 1020.
Phoenix Drug Co., Cincinnati, Ohio. "Rosy Dep-urants." (For Containers for a Cathartic Drug Preparation in Tablet Form.) No. 23,321; Aug. 30; v. 289; p. 1020.
Porto Rico Consolidated Fruit Company, Buffalo, N. Y. "Porto Rico Juceful Grapefruit." (For Grapefruit.) No. 23,322; Aug. 30; v. 289; p. 1020.
Porto Rico Consolidated Fruit Company, Buffalo, N. Y. "Porto Rico Juceful Pineapple." (For Pineapples.) No. 23,323; Aug. 30; v. 289; p. 1020.
Porto Rico Consolidated Fruit Company, Buffalo, N. Y. "Porto Rico Juceful Orange." (For Oranges.) No. 23,324; Aug. 30; v. 289; p. 1020.
Smith, Walter D., Rosedale Station, Kansas City, Kans. "The Tell Tale Book." (For Account-Books.) Nos. 23,325–6; Aug. 30; v. 289; p. 1020.
Stieffen, P. V., Newport News, Va. "Kil-Ol." (For a Disinfectant, Deodorizer, and Germicide.) No. 23,327; Aug. 30; v. 289; p. 1020.
Union Cigar Maker's Co-Operative Society, Inc., New York, N. Y. "Arota." (For Cigars.) No. 23,328; Aug. 30; v. 289; p. 1020.
United States Foil Company, Louisville, Ky. "Silver Lake." (For Cake.) No. 23,329; Aug. 30; v. 289; p. 1020.
United States Supply Co., Minneapolis, Minn. "Sha-Ko Mechanics Antiseptic Hand Soap Powder." (For Hand Soap Powder.) No. 23,330; Aug. 30; v. 289; p. 1020.
Uyratis Co., The, Cleveland, Ohio. "Uratis." (For a Medicinal Preparation.) No. 23,331; Aug. 30; v. 289; p. 1020.
Vilander, Anna L., New York, N. Y. "Holdzit." (For Elastic Waistbands.) No. 23,332; Aug. 30; v. 289; p. 1020.
Western Shirt Co., The, New York, N. Y. "Uncle Tom Shirt." (For Shirts.) No. 23,333; Aug. 30; v. 289; p. 1020.
Wine-ola Co., The, New York, N. Y. "Wine-ola." (For Non-Intoxicant Beverages.) No. 23,334; Aug. 30; v. 289; p. 1020.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Columbia Mills Co., New York, N. Y. "The Factories Behind the Shade." (For Advertising Purposes for Window-Shades.) No. 5,713; Aug. 30; v. 289; p. 1021.
Heinz, H. J., Co., Pittsburgh, Pa. "Every Drop Awakens Flavor Heinz Vinegars." (For Advertising Purposes for Heinz Vinegars.) No. 5,714; Aug. 30; v. 289; p. 1021.
Hoyt, Howard H., Candy Co., Chicago, Ill. "It's Hoyt's, You'll Like It." (For Candy—Namely, Selected Sweets.) No. 5,715; Aug. 30; v. 289; p. 1021.
Joslin, William H., Providence, R. I. "Assortment Shoe Laces." (For Advertising Purposes for Shoe-Laces.) No. 5,716; Aug. 30; v. 289; p. 1021.
Messler, Madge, Providence, R. I. "Dressmakers Snap Fasteners." (For Advertising Purposes for Snap-Fasteners.) No. 5,717; Aug. 30; v. 289; p. 1021.
Morris, Mann & Reilly, Chicago, Ill. "Red Seal Hair Nets Are Good." (For Advertising Hair-Nets.) No. 5,718; Aug. 30; v. 289; p. 1021.
Notaseme Hosiery Company, Philadelphia, Pa. "So Smooth So Snug." (For Advertising Purposes for Hosiery.) No. 5,719; Aug. 30; v. 289; p. 1021.
Palmolive Company, Milwaukee, Wis. "Complexions—Night and Noon." (For Advertising Purposes for Palmolive Soap.) No. 5,720; Aug. 30; v. 289; p. 1021.
Partola Mfg. Co., New York, N. Y. "The Doctor in Candy Form." (For Advertising Purposes for Mint Laxatives.) No. 5,721; Aug. 30; v. 289; p. 1021.
Partola Mfg. Co., New York, N. Y. "As Delicious as Bonbons." (For Advertising Purposes for Mint Laxatives.) No. 5,722; Aug. 30; v. 289; p. 1021.
Postum Cereal Co., Inc., Battle Creek, Mich. "Post Toasties." (For Advertising Purposes for Cereal Foods—Corn Flakes.) No. 5,723; Aug. 30; v. 289; p. 1021.
Rubber & Celluloid Products Company, Newark, N. J. "Rubberset Paint Brushes They Leave No Bristles On The Job." (For Advertising Purposes for Paintbrushes.) No. 5,724; Aug. 30; v. 289; p. 1021.
United Fuel & Supply Company, Detroit, Mich. "United Fuel & Supply Co. Building Supplies." (For Advertising Purposes for Building Supplies.) No. 5,725; Aug. 30; v. 289; p. 1021.
Veico Manufacturing Company, Inc., The, Greenfield, Mass. "How Shall I Cut That Keyway?" (For Advertising Purposes for Keyway Sets and Machines for Use in Connection with Same.) No. 5,726; Aug. 30; v. 289; p. 1021.
Vick Chemical Co., The, Greensboro, N. C. "Vick's Vaporub Over 17 Million Jars Used Yearly." (For Advertising Purposes for Salve.) No. 5,727; Aug. 30; v. 289; p. 1021.
Vick Chemical Co., The Greensboro, N. C. "For Deep Chest Colds Use Vicks Vaporub It Penetrates and Vaporizes. (For Advertising Purposes for Salve.) No. 5,728; Aug. 30; v. 289; p. 1021.
Vick Chemical Co., The, Greensboro, N. C. "For Kiddies Cold Troubles Vicks Vaporub You Just Rub It On." (For Advertising Purposes for Salve.) No. 5,729; Aug. 30; v. 289; p. 1021.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

(REGISTRATION APPLIED FOR.)

Alling and Cory Company, The, Pittsburgh, Pa. Printing and writing bond paper. No. 147,179; Aug. 30; v. 289; p. 1002.

Alling and Cory Company, The, Pittsburgh, Pa. Printing and writing bond paper. No. 147,181; Aug. 30; v. 289; p. 1002.

American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y., and Cumberland, Md. Knitted and woven cloth and fabrics in the piece. No. 148,911; Aug. 30; v. 289; p. 1009.

American Chicle Company, New York, N. Y. Chewing-gum. No. 147,330; Aug. 30; v. 289; p. 1003.

American Milk Products Corporation, New York, N. Y. Unsweetened evaporated milk. No. 148,361; Aug. 30; v. 289; p. 1007.

American Thread Company, The, Jersey City, N. J. Spool-cotton, sewing-cotton, thread, and cotton yarn. No. 150,388; Aug. 30; v. 289; p. 1011.

American Thread Company, The, Jersey City, N. J. Spool-cotton, sewing-cotton, thread and cotton yarn. No. 150,394; Aug. 30; v. 289; p. 1011.

Aron, J., & Company, Inc., New York, N. Y. Coffee. No. 148,786; Aug. 30; v. 289; p. 1009.

Baker, Curtis A., Prescott, Wis. Preparation for heaves. No. 148,367; Aug. 30; v. 289; p. 1007.

Baker, Geo., & Sons, Brockton, Mass. Clenching-nails. No. 148,052; Aug. 30; v. 289; p. 1006.

Beadle, Lynn C., Detroit, Mich. Combination lifter and stand for vehicle wheels. No. 147,549; Aug. 30; v. 289; p. 1004.

Beaumont Cotton Oil Mill Co., Dallas, Tex. Feed for horses, mules, cattle, hogs, and poultry. No. 105,163; Aug. 30; v. 289; p. 985.

Berkander, Geo. F., Providence, R. I. Dolls. No. 141,894; Aug. 30; v. 289; p. 993.

Berkeley Company, Providence, R. I. Cambrics in the piece. No. 150,176; Aug. 30; v. 289; p. 1010.

Berry, R., Co., Buffalo, N. Y. Tonic for the bowels. No. 147,656; Aug. 30; v. 289; p. 1004.

Birmingham Iron Foundry, Derby, Conn. Drop-presses for stamping and forming products of metal and automatic drop-lifters for lifting and operating the hammers of drop-presses. No. 144,376; Aug. 30; v. 289; p. 995.

Bliss, E. W., Company, Brooklyn, N. Y. Forming and shaping, cutting, trimming, and bending presses, &c. No. 145,547; Aug. 30; v. 289; p. 997.

Boschen, Herman C., Richmond, Va. Blank forms for checks, shopping-checks, promissory notes, and drafts. No. 143,250; Aug. 30; v. 289; p. 994.

Boyd, Thomas L., Chicago, Ill. Lard. No. 133,567; Aug. 30; v. 289; p. 988.

Britt Manufacturing Company, Jacksonville, Fla. Tonic for blood disorders, kidney diseases, liver complaints, &c. No. 146,409; Aug. 30; v. 289; p. 999.

Browne, Stewart R., Mfg. Co., Inc., New York, N. Y. Braided asbestos lubricated yarn packing. No. 150,434; Aug. 30; v. 289; p. 1011.

Buxton, Thos. A., Girard, Ga. Tablets for treatment of headaches, neuralgia, colds, &c. No. 145,764; Aug. 30; v. 289; p. 998.

California Vegetable Union, Los Angeles, Calif. Canned and fresh fruits and vegetables, citrus fruits. No. 129,696; Aug. 30; v. 289; p. 987.

Carey, Philip, Manufacturing Company, The, Lockland, Ohio. Magnesia, light calcined magnesia, light calcined magnesia powder, &c. No. 145,317; Aug. 30; v. 289; p. 997.

Central Ohio Paper Company, The, Columbus, Ohio. Cover-papers and textile book-papers. No. 146,752; Aug. 30; v. 289; p. 1000.

Central Ohio Paper Company, The, Columbus, Ohio. Enameled cover-papers and enameled book-papers. No. 146,753; Aug. 30; v. 289; p. 1000.

Central Ohio Paper Company, The, Columbus, Ohio. Kraft wrapping-papers. No. 146,754; Aug. 30; v. 289; p. 1001.

Chase & Sanborn, Boston, Mass. Tea and coffee. No. 148,373; Aug. 30; v. 289; p. 1008.

Chemical Paper Manufacturing Co., Holyoke, Mass. Cover-paper. No. 142,386; Aug. 30; v. 289; p. 993.

Chemische Fabrik vormals Sandoz, Basel, Switzerland. Expectorant employed in case of bronchitis, whooping-cough, &c. No. 143,916; Aug. 30; v. 289; p. 994.

Chemische Fabrik vormals Sandoz, Basel, Switzerland. Antispasmodic and sedative given for intestinal affections. No. 143,917; Aug. 30; v. 289; p. 994.

Chemische Fabrik vormals Sandoz, Basel, Switzerland. Sedative for relieving spasms and colic, &c. Nos. 145,253–4; Aug. 30; v. 289; p. 997.

Chemische Fabrik vormals Sandos, Basel, Switzerland. Antispasmodic and sedative for intestinal affection. No. 145,255; Aug. 30; v. 289; p. 997.

Cheney, Henry, Hammer Corporation, Little Falls, N. Y. Hammers and wrenches. No. 141,250; Aug. 30; v. 289; p. 992.

Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic tools—namely, riveting-hammers. No. 146,295; Aug. 30; v. 289; p. 999.

Children's Vehicle Corporation, East Templeton, Mass. Play-cars. No. 140,988; Aug. 30; v. 289; p. 992.

Condax, E. A., & Company, Inc., New York, N. Y. Cigarettes. No. 135,841; Aug. 30; v. 289; p. 989.

Conner & Walters Company, Charlotte, N. C. Hair-tonic. No. 143,910; Aug. 30; v. 289; p. 994.

Continental Paper & Bag Mills, New York, N. Y. Wrapping and toilet paper, paper towels and napkins. No. 140,990; Aug. 30; v. 289; p. 992.

Corning Glass Works, Corning, N. Y. Glass. No. 134,303; Aug. 30; v. 289; p. 988.

Corrugated Bar Company, Inc., Buffalo, N. Y. Metal rods, bars, stirrups, hoops, &c., for reinforcing concrete. No. 145,648; Aug. 30; v. 289; p. 1008.

Coward, John D., Boston, Mass. Traffic-signals for motor-vehicles. No. 147,155; Aug. 30; v. 289; p. 1002.

Crush Brick Company, Sulphur Springs, Tex. Fire-brick, hollow building-tile, face-brick, &c. No. 145,882; Aug. 30; v. 289; p. 998.

Davis and Ford, Chicago, Ill. Cardboard and pictorial toys for teaching children simple words. No. 141,559; Aug. 30; v. 289; p. 992.

De Forrest, Sara V., New York, N. Y. Varnishes—namely, bronzing liquid, asphaltum varnish, and japan driers. No. 147,712; Aug. 30; v. 289; p. 1005.

Des Moines Tent & Awning Company, Des Moines, Iowa. Tents and tent-sheds. No. 145,999; Aug. 30; v. 289; p. 999.

Donald, William G., Oakland, Calif. Sink-flushers. No. 147,098; Aug. 30; v. 289; p. 1001.

Doyle, James A., New York, N. Y. Woolen goods in the piece. No. 150,063; Aug. 30; v. 289; p. 1010.

Du Bois Rubber & Tube Company, Chattanooga, Tenn. Rubber tires and tubes. Nos. 148,979–80; Aug. 30; v. 289; p. 1009.

Dunn, John, Son & Co., New York, N. Y. Coal, wood, gas, and oil stoves and ranges. No. 140,875; Aug. 30; v. 289; p. 992.

Eagle Tire Patch Co., Moberly, Mo. Rubber patches. No. 138,161; Aug. 30; v. 289; p. 990.

Egan and Hausman Company, Inc., Brooklyn, N. Y. Varnishes. No. 148,263; Aug. 30; v. 289; p. 1007.

Edectrozone Water Company, Oklahoma, Okla. Non-alcoholic beverages and purified drinking-water. No. 142,701; Aug. 30; v. 289; p. 993.

Ellah, Hedwig R., Philadelphia, Pa. Lard substitutes. No. 144,609; Aug. 30; v. 289; p. 995.

Empire Notion Co., New York, N. Y. Hair-nets. No. 149,955; Aug. 30; v. 289; p. 1010.

Empire Varnish Company, The, Cleveland, Ohio. Varnish. No. 137,769; Aug. 30; v. 289; p. 990.

Engelberg Huller Company, The, Syracuse, N. Y. Attrition-mills and coffee-shellers. No. 144,960; Aug. 30; v. 289; p. 1001.

Eppelsheimer & Co., New York, N. Y. Metal molds. No. 146,959; Aug. 30; v. 289; p. 1001.

Estate Stove Company, The, Hamilton, Ohio. Coal and wood stoves. No. 144,314; Aug. 30; v. 289; p. 995.

Eucatol Co., Quincy, Ill. Emollient antiseptic medicine. No. 143,550; Aug. 30; v. 289; p. 994.

Evers-Rehm Co., New York, N. Y. Non-alcoholic beverages and syrups for making same. No. 144,806; Aug. 30; v. 289; p. 996.

Ferris, William L., New York, N. Y. Puzzles. No. 137,169; Aug. 30; v. 289; p. 989.

Ford, Henry C., Lima, Ohio. Medicine for cholera and roup. No. 133,658; Aug. 30; v. 289; p. 988.

Frame, Abraham L., Reading Pa. Concrete-mixers. No. 145,080; Aug. 30; v. 289; p. 996.

Gahan Baking Company, Worcester, Mass. Doughnuts. No. 120,665; Aug. 30; v. 289; p. 986.

Gandolfo-Ghio Mfg. Co., St. Louis, Mo. Spaghetti, macaroni, vermicelli, and noodles. No. 137,377; Aug. 30; v. 289; p. 989.

General Electric Company, Schenectady, N. Y. Refractory composition for use in furnaces. No. 144,521; Aug. 30; v. 289; p. 995.

Germicide Company, The, Denver, Colo. Medicine for cows. No. 147,778; Aug. 30; v. 289; p. 1005.

Goodrich, B. F., Company, The, New York, N. Y. Gun-recoil pads for hand-arms. No. 137,463; Aug. 30; v. 289; p. 989.

Goodrich, B. F., Company, The, New York, N. Y. Gun-recoil pads for hand-arms. No. 137,466; Aug. 30; v. 289; p. 989.

Goodyear Rubber Company, New York, N. Y. Bicycle-tires and inner tubes for automobile-tires. No. 134,562; Aug. 30; v. 289; p. 989.

Griffin, Harry M., Peekskill, N. Y. Headache and neuralgia remedy. No. 140,494; Aug. 30; v. 289; p. 991.

Gutter, Sigsbie, New York, N. Y. Watches, watchcases, and watch-movements. No. 139,529; Aug. 30; v. 289; p. 990.

H-2-O Still Company, Baltimore, Md. Distilled water, non-alcoholic beverages, and syrups for making same. No. 141,107; Aug. 30; v. 289; p. 992.

Hall, John, Springfield, Ill. Mineral waters. No. 148,654; Aug. 30; v. 289; p. 1008.

Hanson Manufacturing Co., Detroit, Mich. Medical preparation for asthma, coughs, and colds. No. 147,196; Aug. 30; v. 289; p. 1002.

Hilton Collins Co., Incorporated, Louisville, Ky. Baseballbats. No. 144,772; Aug. 30; v. 289; p. 996.

Hinck & Miller, New York, N. Y. Cotton piece goods. No. 150,315; Aug. 30; v. 289; p. 1011.

Hite, S. P., Company, Inc., Roanoke, Va. Remedy for aching limbs, summer complaint, toothache, &c. No. 147,290; Aug. 30; v. 289; p. 1003.

Holophane Glass Co. Inc., New York, N. Y. Glass globes and reflectors for artificial light. Nos. 147,197–8; Aug. 30; v. 289; p. 1002.

Horine & Bowery Company, Chicago, Ill. Imitation Vanilla extract. No. 140,326; Aug. 30; v. 289; p. 991.

Hudson & Company, New York, N. Y. Ointment indicated in the treatment of eczema, boils, &c. No. 146,631; Aug. 30; v. 289; p. 1000.

Hughes, Robert D., Lynchburg, Va. Automobile rim-tools, tire-pumps, and gear-pullers. No. 147,160; Aug. 30; v. 289; p. 1002.

Hurst, Percy E., South Croydon, England. Card game. No. 145,687; Aug. 30; v. 289; p. 998.

Hutchison, R. M., Plymouth, England. Game apparatus. No. 140,837; Aug. 30; v. 289; p. 992.

Ideal Fire Extinguisher Co., Providence, R. I. Hand fire-extinguishers. No. 146,258; Aug. 30; v. 289; p. 999.

Insel Company, The, Newark, N. J. Non-breakable lamp-lenses. No. 148,170; Aug. 30; v. 289; p. 998.

Irokese Trading Corporation, New York, N. Y. Rubber, composition, textile, celluloid, wooden, paper, and metal toys. Nos. 139,975–7; Aug. 30; v. 289; p. 991.

Jones, Pattie B., Birmingham, Ala. Remedy for the scalp and hair, eczema, &c. No. 128,604; Aug. 30; v. 289; p. 986.

Jones, Robert N., Crystal Springs, Miss. Remedy for piles. No. 137,261; Aug. 30; 289; p. 989.

Jordan, Marsh, Company, Boston, Mass. Correspondence-paper, cards, and envelops therefor. No. 146,712; Aug. 30; v. 289; p. 1000.

Kalashian Bros. Inc., Worcester, Mass. Ice-cream and candy kisses. No. 143,326; Aug. 30; v. 289; p. 994.

Kansas City Kola Company, Kansas City, Mo. Non-alcoholic, non-cereal maltless beverage and syrups for making same. No. 147,294; Aug. 30; v. 289; p. 1003.

Khan, John B., Homestead, Pa. Medicine for the treatment of diseases of the blood, nerves, &c., and a hair-cream. No. 147,669; Aug. 30; v. 289; p. 1004.

Kings Specialty Co., Fort Wayne, Ind. Preparation used in sterilizing infected dentine. No. 147,828; Aug. 30; v. 289; p. 1005.

Kingsbury Corporation, Chicago, Ill. Corrosion, acid and gas proof paint for smokestacks, water-tanks, pipes, &c. No. 148,079; Aug. 30; v. 289; p. 1006.

Klingbeil, Gottlieb L. E., Omaha, Nebr. Child's educational and amusement appliance. No. 147,829; Aug. 30; v. 289; p. 1005.

Kuhnla, August, Inc., Brooklyn, N. Y. Skylights. No. 148,495; Aug. 30; v. 289; p. 1008.

Lehner, John, Pittsburgh, Pa. Suction devices for dental plates. No. 120,542; Aug. 30; v. 289; p. 986.

Letalog Mailer Co., Chicago, Ill. Envelops and mailing-containers. No. 147,031; Aug. 30; v. 289; p. 1001.

Liberty Paint Co. Inc., New York, N. Y. Putty. No. 148,542; Aug. 30; v. 289; p. 1008.

Liedel, H. A., & Son, Springfield, Ill. Cornmeal, graham and whole-wheat flour, dairy, cattle, &c., feeds. No. 139,040; Aug. 30; v. 289; p. 990.

Lincoln Chemical Company, Minneapolis, Minn. Cleaning and polishing liquids for varnished or enameled surfaces. No. 147,671; Aug. 30; v. 289; p. 1004.

Lipshulch, George U., Chicago, Ill. Non-alcoholic beverage. No. 146,718; Aug. 30; v. 289; p. 1000.

"Little Major" Appliances Co., The, New York, N. Y. Label-holders for open-backed loose-leaf books or binders. No. 145,346; Aug. 30; v. 289; p. 997.

Luden, William H., Reading, Pa. Menthol cough-drops. No. 147,967; Aug. 30; v. 289; p. 1006.

Lustrite Corporation, The, Brooklyn, N. Y. Lubricant or lotion for rendering the cuticle soft and pliable, &c. No. 146,920; Aug. 30; v. 289; p. 1001.

McDougall-Butler Co., Inc., Buffalo, N. Y. Varnish. Nos. 149,410–11; Aug. 30; v. 289; p. 1010.

Malley, Edw., Co., The, New Haven, Conn. Veiling by the piece. No. 148,021; Aug. 30; v. 289; p. 1006.

Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. No. 146,836; Aug. 30; v. 289; p. 1001.

Mappin & Webb Limited, London and Sheffield, England. Cutlery made of base metal. No. 143,825; Aug. 30; v. 289; p. 994.

Marcus Ward, Inc., New York, N. Y. Writing-paper. No. 134,399; Aug. 30; v. 289; p. 988.

Marshall-Wells Company, Duluth, Minn. Fishing lines, rods, and reels. No. 148,451; Aug. 30; v. 289; p. 1008.

Maul, Alfred R., Minneapolis, Minn. Engraved, lithographed, or printed stock-certificate blanks, bond-blanks, &c. No. 144,530; Aug. 30; v. 289; p. 995.

Mecky, A., Company, Philadelphia, Pa. Foot-propelled toy vehicles. No. 144,630; Aug. 30; v. 289; p. 995.

Meehan, Florence B., Chicago, Ill. Mechanical dolls. No. 141,730; Aug. 30; v. 289; p. 993.

Merced Growers Packing Ass'n, Merced, Calif. Fresh fruits and vegetables. No. 147,445; Aug. 30; v. 289; p. 1004.

Middletown Silver Company, The, Middletown, Conn. Silver-plated hollow ware and tableware. No. 145,956; Aug. 30; v. 289; p. 999.

Midland Rubber Co. Ltd., Birmingham, England. Golf-balls. No. 144,032; Aug. 30; v. 289; p. 994.

Moeller, Annetta, Indianapolis, Ind. Containers for manicuring preparations, powders, and cosmetics, &c. No. 114,065; Aug. 30; v. 289; p. 985.

Moir, Marian, Burlington, Iowa. Whist score-card. No. 146,449; Aug. 30; v. 289; p. 1000.

Morandi-Proctor Company, Boston, Mass. Warming-closets, steam-tables, coffee-urns, &c. No. 144,733; Aug. 30; v. 289; p. 995.

Morrell, John, & Company, Ottumwa, Iowa. Bacon. No. 147,365; Aug. 30; v. 289; p. 1003.

Morrell, John, & Company, Ottumwa, Iowa. Hams, bacon, picnic-hams, dried beef, &c. No. 147,367; Aug. 30; v. 289; p. 1003.

Morrell, John, & Company, Ottumwa, Iowa. Tongues, sausage, souse, luncheon-meat, &c. No. 148,157; Aug. 30; v. 289; p. 1007.

Mundy, J. S., Hoisting Engine Co., Newark, N. J. Contractors' steam and gasolene hoists, dredging, mining, logging, and steering engines, &c. No. 148,233; Aug. 30; v. 289; p. 1007.

National Biscuit Company, New York, N. Y. Biscuit and crackers. No. 145,844; Aug. 30; v. 289; p. 998.

National Biscuit Company, New York, N. Y. Biscuit, crackers, and cake. No. 145,841; Aug. 30; v. 289; p. 998.

New Jersey Car Spring & Rubber Co., Inc., Jersey City, N. J. Rubber belting and hose. No. 136,951; Aug. 30; v. 289; p. 989.

Nienhauser, Bernard A., St. Paul, Minn. Wrapping-paper. No. 147,676; Aug. 30; v. 289; p. 1005.

Norfolk Truckers Exchange, Norfolk, Va. Fresh potatoes. No. 142,716; Aug. 30; v. 289; p. 993.

Notaseme Hosiery Company, Philadelphia, Pa. Dolls. No. 145,355; Aug. 30; v. 289; p. 997.

Notaseme Hosiery Company, Philadelphia, Pa. Dolls. No. 146,226; Aug. 30; v. 289; p. 999.

Oliver, V., Inc., Philadelphia, Pa. Traffic-signals for vehicles. No. 144,871; Aug. 30; v. 289; p. 996.

Orium Company, St. Louis, Mo. Medical compound for relief of indigestion, constipation, &c. No. 131,348; Aug. 30; v. 289; p. 987.

Owl Drug Company, The, San Francisco, Calif. Medicated or denatured alcohol. No. 147,732; Aug. 30; v. 289; p. 1005.

Palmer Candy Co., Sioux City, Iowa. Candy. No. 147,122; Aug. 30; v. 289; p. 1001.

Papason, Peter N., Chicago, Ill. Fresh apples, potatoes, milk, and dressed chickens. No. 141,024; Aug. 30; v. 289; p. 992.

Patterson Lock Nut Mfg. Co., Chicago, Ill. Lock-nuts. No. 148,618; Aug. 30; v. 289; p. 1008.

Paulson, Henry, Chicago, Ill. Files, gravers, tweezers, &c. No. 140,402; Aug. 30; v. 289; p. 991.

Phoenix Paint & Varnish Company, Philadelphia, Pa. Ready-mixed paints. No. 149,026; Aug. 30; v. 289; p. 1009.

Pollock, Grant E., Clinton, Ill. Coaster-sleds. No. 142,795; Aug. 30; v. 289; p. 993.

Protectoglare Co., The, Los Angeles, Calif. Glare-shields attachable to front of automobile-tops. No. 133,493; Aug. 30; v. 289; p. 988.

Prunier, G., & Cie., Paris, France. Medicine used as a tonic, &c. No. 147,983; Aug. 30; v. 289; p. 1006.

Pugh, William M., Baltimore, Md. Gasolene-improver. No. 147,734; Aug. 30; v. 289; p. 1005.

Puritan Drug Mfg. Co., The, Columbus, Ohio. Wood-polish for furniture, floors, &c. No. 146,653; Aug. 30; v. 289; p. 1000.

Queen City Bottling Company, The, Cincinnati, Ohio. Maltless, non-alcoholic beverage. No. 145,475; Aug. 30; v. 289; p. 997.

Rainbow Lawn Sprinkler Company, Jacksonville, Fla. Lawn-sprinklers. No. 148,087; Aug. 30; v. 289; p. 1006.

Red Wing Corporation Company, The, Dayton, Ohio. Dairy products. No. 137,147; Aug. 30; v. 289; p. 989.

Reinhart, K., Newark, N. J. Extract of vanilla for food-flavoring. No. 130,116; Aug. 30; v. 289; p. 987.

(REGISTRATION APPLIED FOR.)

Reisner, W. H., Manufacturing Company, Hagerstown, Md. Minnow-nets. No. 145,970; Aug. 30; v. 289; p. 999.

Remien & Kuhnert Co., Chicago, Ill. Enamel paints. No. 144,629; Aug. 30; v. 289; p. 995.

Richheimer, Isaac D., New York, N. Y. Coffee. No. 148,552; Aug. 30; v. 289; p. 1008.

Riner, Jesse A., Akron, Ohio. Composition of matter for the use of taxidermists. No. 146,035; Aug. 30; v. 289; p. 999.

Rocha, J., Bros., Washington, D. C. Olive-oil. No. 147,994; Aug. 30; v. 289; p. 1006.

Rodrigues, Valentin, New York, N. Y. Spanish paprika. Nos. 145,231–5; Aug. 30; v. 289; p. 996.

Roper, Geo. D., Corporation, Rockford, Ill. Pumps and parts thereof. No. 146,498; Aug. 30; v. 289; p. 1000.

Roth Coal Company, Inc., The, New York, N. Y. Coal. No. 145,854; Aug. 30; v. 289; p. 1009.

Ruth, Benjamin F., Reading, Pa. Non-alcoholic, non-cereal, maltless beverages. No. 146,500; Aug. 30; v. 289; p. 1000.

Samoset Chocolate Company, Boston, Mass. Candy. Nos. 134,145–6; Aug. 30; v. 289; p. 988.

Samstag & Hilder Bros. Inc., New York, N. Y. Hair-nets. No. 148,676; Aug. 30; v. 289; p. 1009.

Sethness Company, Chicago, Ill. Malt and Hop Beverages. No. 133,110; Aug. 30; v. 289; p. 988.

Sherwood Petroleum Co. Inc., Brooklyn, N. Y. Petrolatums, mineral jellies, and oils for medicinal and pharmaceutical uses. No. 145,657; Aug. 30; v. 289; p. 993.

Shirwin-Williams Company, The, Cleveland, Ohio. Paints, finishes, enamels, japans, varnishes, &c. No. 147,156; Aug. 30; v. 289; p. 1001.

Shirwin-Williams Company, The, Cleveland, Ohio. Cold-water paints. No. 147,449; Aug. 30; v. 289; p. 1004.

Shor, Harry N., Philadelphia, Pa. Tooth paste and powder, mouth-wash, gas, and extracting fluids. No. 143,788; Aug. 30; v. 289; p. 994.

Smith, F. E., Palma Sola, Fla. Guava jelly, canned guavas, &c. No. 141,808; Aug. 30; v. 289; p. 993.

Smith, George F., Woodsboro, Md. Dental cream. No. 147,740; Aug. 30; v. 289; p. 1005.

Smolin-Hartman & Co., New York, N. Y. Yarns. No. 147,946; Aug. 30; v. 289; p. 1006.

Snyder Chaffee Company, The, Columbus, Ohio. Candy. No. 147,061; Aug. 30; v. 289; p. 1001.

Standard Asphalt & Refining Company, Jersey City, N. J., and Chicago, Ill. Bituminous puttles. No. 131,988; Aug. 30; v. 289; p. 987.

Stoneward Corporation, The, New York, N. Y. Lye. No. 132,760; Aug. 30; v. 289; p. 987.

Stoneward Corp., The, New York, N. Y. Maltless, non-alcoholic beverages sold as soft drinks. No. 132,761; Aug. 30; v. 289; p. 987.

Stork, Chas. T., and Co., Inc., New York, N. Y. Condensed milk. No. 117,544; Aug. 30; v. 289; p. 985.

Szabo, Alex, New York, N. Y. Liniment for rheumatism, neuralgia, sciatica, &c. No. 145,656; Aug. 30; v. 289; p. 998.

Texas Company, The, Houston, Tex., and New York, N. Y. Polishing-oil for painted and varnished surfaces. No. 149,984; Aug. 30; v. 289; p. 1010.

Thoro Products Mfg. Co., The, Denver, Colo. Bluing and ammonia. No. 138,243; Aug. 30; v. 289; p. 990.

Tousey, Sinclair, New York, N. Y. Golf-clubs. No. 148,249; Aug. 30; v. 289; p. 1007.

Toytown Manufacturing Company, Minneapolis, Minn. Toy wooden horses mounted on wheels. No. 140,621; Aug. 30; v. 289; p. 991.

Traer, Joseph B., St. Paul, Minn. Malt syrup used as a beverage. No. 145,176; Aug. 30; v. 289; p. 996.

Tri-State Milk Products Co., Galena, Ill. Evaporated milk. No. 148,629; Aug. 30; v. 289; p. 1008.

Trinidad Bean and Elevator Company, The. Dried beans of all kinds. No. 148,097; Aug. 30; v. 289; p. 1007.

Twersky, Morris, Buffalo, N. Y. Preventive for venereal diseases. No. 147,586; Aug. 30; v. 289; p. 1004.

Universal Lamp Co., Chicago, Ill. Acetylene-lamps. No. 150,380; Aug. 30; v. 289; p. 1011.

Vester, Alfred, Sons, Inc., Providence, R. I. Ornamental electrical fixture parts of stamped brass and copper. No. 147,589; Aug. 30; v. 289; p. 1004.

Volhmar, Frank J., St. Louis, Mo. Preparation for use in the treatment of rheumatism, gout, lumbago. No. 147,695; Aug. 30; v. 289; p. 1005.

Voss Brothers Manufacturing Co., Davenport, Iowa. Laundry-washing machines. No. 138,030; Aug. 30; v. 289; p. 990.

W-K-M Co., Donaldsonville, Ga. Pile remedy. No. 147,804; Aug. 30; v. 289; p. 1005.

Waldeck, Charles Alfred, Company, Inc., The, Baltimore, Md. Vaporizing chemicals to be used for the treatment of pulmonary diseases. No. 138,152; Aug. 30; v. 289; p. 990.

Walter, Charles A., Anna, Ill. Liquid preparation for removing old varnish, wax, dirt, grease, &c. No. 147,855; Aug. 30; v. 289; p. 1006.

Weber & Lefton, Inc., New York, N. Y. Ribbon in the piece. No. 145,484; Aug. 30; v. 289; p. 997.

Wechsler, Frances, New York, N. Y. Shampoo and tonic for the hair. No. 141,737; Aug. 30; v. 289; p. 993.

Welch, Francis M., San Francisco, Calif. Tonic, particularly a nerve and body tonic. No. 145,807; Aug. 30; v. 289; p. 998.

Western Cartridge Company, East Alton and Springfield, Ill. Targets and traps. Nos. 149,207–8; Aug. 30; v. 289; pp. 1009–10.

Western Electric Company, Incorporated, New York, N. Y. Paints and varnishes. No. 111,637; Aug. 30; v. 289; p. 985.

White, James F., & Co. Inc., New York, N. Y. Cotton piece goods. Nos. 150,297–9; Aug. 30; v. 289; pp. 1010–11.

Winchester Repeating Arms Co., New Haven, Conn. Ice and roller skates. No. 148,253; Aug. 30; v. 289; p. 1007.

Wincroft Stove Works, Middletown, Pa. Gas and coal stoves. No. 147,223; Aug. 30; v. 289; p. 1002.

Winthrop Chemical Company, Inc., New York, N. Y. Preparations for the treatment of chlorosis, anemia, skin diseases, &c. No. 120,298; Aug. 30; v. 289; p. 986.

Wisconsin Compounding Company, Milwaukee, Wis. Furniture and automobile polish. No. 149,162; Aug. 30; v. 289; p. 1009.

Wizard Foot Appliance Company, St. Louis, Mo. Corrective foot appliances. No. 129,114; Aug. 30; v. 289; p. 987.

Wolbert, Everett D., San Francisco, Calif. Automobile-crank-case support. No. 147,386; Aug. 30; v. 289; p. 1003.

Wolfe-Farrer Co., Omaha, Nebr. Spirits of camphor. No. 124,702; Aug. 30; v. 289; p. 986.

Wolfe, Guy F., Frederick, Md. Carbon-remover. No. 147,542; Aug. 30; v. 289; p. 1004.

Woven Down Duster Company, Chicago, Ill. Dust-brushes. No. 138,367; Aug. 30; v. 289; p. 990.

Yuengling, D. G., & Son, Inc., Pottsville, Pa. Non-intoxicating cereal malt beverage. No. 133,075; Aug. 30; v. 289; p. 987.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 30TH DAY OF AUGUST, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid and of alkaline valerianates, Manufacture of valerianic. L. Dupont. No. 1,389,187; Aug. 30; v. 289; p. 875.

Adding machine, Coin-. J. A. Canfield. No. 1,389,122; Aug. 30; v. 289; p. 861.

Adjustable wrench. G. E. Cassel. No. 1,389,487; Aug. 30; v. 289; p. 934.

Advertising or display novelty. P. M. Heanegan. No. 1,389,551; Aug. 30; v. 289; p. 947.

Aerial propeller. P. Levasseur. No. 1,389,146; Aug. 30; v. 289; p. 866.

Aeroplane. T. A. Macdonald. No. 1,389,257; Aug. 30; v. 289; p. 888.

Aeroplane. P. J. Reuser. No. 1,389,163; Aug. 30; v. 289; p. 870.

Aeroplane driving mechanism. P. Adler. No. 1,389,471; Aug. 30; v. 289; p. 931.

Agricultural implement. C. J. Allen. No. 1,389,115; Aug. 30; v. 289; p. 859.

Agricultural-implement frame. T. C. Duncan. No. 1,389,296; Aug. 30; v. 289; p. 896.

Air and gas, Method of and means for burning. W. H. Geesman and A. G. McKee. No. 1,388,944; Aug. 30; v. 289; p. 826.

Air-brake lock. A. W. Paulson. No. 1,389,070; Aug. 30; v. 289; p. 861.

Air-compressor. M. A. Estes. No. 1,389,039; Aug. 30; v. 289; p. 845.

Aircraft, marine steering-gear, and other apparatus, Control device applicable to. W. C. Gardiner. No. 1,389,347; Aug. 30; v. 289; p. 907.

Airplane. B. D. Thomas. No. 1,389,106; Aug. 30; v. 289; p. 858.

Airplane-stabilizer. T. E. Weible. No. 1,388,907; Aug. 30; v. 289; p. 818.

Alarm: *See*—
Portable burglar-alarm.

Aldehydes, Making. A. A. Backhaus and F. B. Arentz. No. 1,388,841; Aug. 30; v. 289; p. 805.

Alloy. A. W. Clement. No. 1,389,097; Aug. 30; v. 289; p. 856.

Alloy. H. Hecht. No. 1,389,446; Aug. 30; v. 289; p. 926.

Alloy, Heat-resisting. J. T. Glekler. No. 1,389,133; Aug. 30; v. 289; p. 863.

Alloys, Treating lead. J. O. Johnstone. No. 1,389,511; Aug. 30; v. 289; p. 939.

Annealing. C. M. Stein. No. 1,388,976; Aug. 30; v. 289; p. 832.

Arctic-upper-stamping machine. L. J. Bassoni. No. 1,388,842; Aug. 30; v. 289; p. 805.

Armchair. M. McCarthy. No. 1,389,254; Aug. 30; v. 289; p. 888.

Assembling-cradle. C. W. Olson. No. 1,389,068; Aug. 30; v. 289; p. 851.

Auto-window frame. H. P. Davis. No. 1,389,033; Aug. 30; v. 289; p. 844.

Automatic gage. O. D. Brainard. No. 1,389,432; Aug. 30; v. 289; p. 923.

Automatic machines, Driving mechanism for. J. P. Brophy. No. 1,389,433; Aug. 30; v. 289; p. 924.

Automobile attachment. J. Finch. No. 1,388,940; Aug. 30; v. 289; p. 825.

Automobile-lock. S. G. Gerlach. No. 1,389,499; Aug. 30; v. 289; p. 936.

Automobile power-transmitting device. S. L. Shuster and G. J. Riegert. No. 1,389,167; Aug. 30; v. 289; p. 871.

Automobile-radiator cap. W. M. Erwin and W. F. Stretch. No. 1,389,495; Aug. 30; v. 289; p. 936.

Automobile signal-controlling mechanism. C. C. Loder. No. 1,389,366; Aug. 30; v. 289; p. 910.

Automobile-signal, Rear-end. G. G. Morin. No. 1,389,373; Aug. 30; v. 289; p. 912.

Automobile-skid. L. L. Tufts. No. 1,389,400; Aug. 30; v. 289; p. 917.

Automobiles, Air-regulator for. A. Hango. No. 1,388,999; Aug. 30; v. 289; p. 837.

Automobiles, &c., Starter, lights, and alarm control device for. W. H. Collier. No. 1,388,933; Aug. 30; v. 289; p. 824.

Automobiles, Attachment for. J. F. Fair. No. 1,388,996 Aug. 30; v. 289; p. 837.

Automobiles, Brake attachment for. F. R. Peterson. No. 1,389,159; Aug. 30; v. 289; p. 869.

Automobiles, Foot-rest for. S. L. Myatt. No. 1,389,209; Aug. 30; v. 289; p. 879.

Automobiles, Gear-shift-lever lock for. C. W. Mueller. No. 1,389,316; Aug. 30; v. 289; p. 900.

Automobiles, Safety device for. M. Thiery. No. 1,388,961; Aug. 30; v. 289; p. 833.

Automobiles, Traffic-signal for. I. C. Schrag. No. 1,388,900; Aug. 30; v. 289; p. 817.

Bag: *See*—
Male urinal bag.

Bailer, Detachable-end. F. B. Alldredge. No. 1,389,023; Aug. 30; v. 289; p. 842.

Baling-wire needle. W. A. Seymour. No. 1,389,386; Aug. 30; v. 289; p. 914.

Bar: *See*—
Grate-bar.

Batteries, Grid for storage. J. C. Sundby. No. 1,389,018; Aug. 30; v. 289; p. 841.

Battery: *See*—
Storage battery.

Battery plates, Lead-burning machine for storage-. P. E. Norris. No. 1,389,155; Aug. 30; v. 289; p. 869.

Bearing. N. Constant. No. 1,389,127; Aug. 30; v. 289; p. 862.

Bearing cages, Tie-bar for roller-. C. S. Lockwood. No. 1,389,313; Aug. 30; v. 289; p. 900.

Bearing, Roller-. J. F. Flaherty. No. 1,389,040; Aug. 30; v. 289; p. 845.

Bearing, Roller-. C. E. Robson. No. 1,389,385; Aug. 30; v. 289; p. 914.

Bearing spindle, Ball-. T. M. Prudden. No. 1,389,009; Aug. 30; v. 289; p. 840.

Bed-spring and auto-cushion. A. F. Sturm. No. 1,389,168; Aug. 30; v. 289; p. 871.

Beds, Attachment for hospital-. F. Berman. No. 1,389,480; Aug. 30; v. 289; p. 933.

Belt-holder. J. E. MacMillan. No. 1,389,206; Aug. 30; v. 289; p. 878.

Bicycle construction. E. M. Lewis. No. 1,388,961; Aug. 30; v. 289; p. 829.

Binder, Infant-. E. L. Larrabee. No. 1,388,867; Aug. 30; v. 289; p. 810.

Bit-brace. E. W. Bullard. No. 1,388,920; Aug. 30; v. 289; p. 821.

Bit-brace handle. E. W. Bullard. No. 1,388,924; Aug. 30; v. 289; p. 822.

Bit-brace handle. E. W. Bullard. No. 1,388,925; Aug. 30; v. 289; p. 822.

Blower, Soot-. W. M. McNeill. (Reissue.) No. 15,185; Aug. 30; v. 289; p. 951.

Bobbin. E. J. Hubbard. No. 1,388,951; Aug. 30; v. 289; p. 827.

Bobbin. E. J. Hubbard. No. 1,388,952; Aug. 30; v. 289; p. 827.

Boiler: *See*—
Steam-boiler.

Bolt: *See*—
Lubricating-bolt. Spring-bolt.

Book, Deposit-. G. H. Kent. No. 1,389,561; Aug. 30; v. 289; p. 949.

Bottle-capping machine. G. C. and W. F. Adams. No. 1,389,111; Aug. 30; v. 289; p. 859.

Box: *See*—
Photoprinting-box. Sand-box.
Powder-box.

Brace: *See*—
Bit-brace.

Brace-head. E. W. Bullard. No. 1,388,921; Aug. 30; v. 289; p. 821.

Brace-head. E. W. Bullard. No. 1,388,922; Aug. 30; v. 289; p. 821.

Brace-head. E. W. Bullard. No. 1,388,928; Aug. 30; v. 289; p. 822.

Bracelet clasp, Ribbon-. R. King. No. 1,389,196; Aug. 30; v. 289; p. 876.

Bracket: *See*—
Shade-bracket.

Brake-beam fulcrum. W. E. Fowler, Jr. No. 1,389,041; Aug. 30; v. 289; p. 846.

Brake-beam suspension. T. L. Burton. No. 1,389,121; Aug. 30; v. 289; p. 861.

Bread-raiser. L. B. Hawkins. No. 1,389,352; Aug. 30; v. 289; p. 908.

Brush and comb, Combined. T. Koslowsky and W. Rogosky. No. 1,388,955; Aug. 30; v. 289; p. 828.

Brush-holder mechanisms, Controlling device for. M. E. Gysel. No. 1,389,137; Aug. 30; v. 289; p. 864.

Buckle, Belt-. S. Rosenthal and S. D. Brightman. No. 1,389,459; Aug. 30; v. 289; p. 929.

Bumper-bar and support therefor. J. Di Salvo. No. 1,389,344; Aug. 30; v. 289; p. 906.

Burglar-alarm, Portable. F. Bacon. No. 1,389,178; Aug. 30; v. 289; p. 873.
Burner: *See*—
Kindling-burner. Tar-burner.
Liquid-fuel burner. Vapor-burner.
Oil-burner.
Burner-head. C. L. Torrey. No. 1,389,107; Aug. 30; v. 289; p. 858.
Buttonhole, Stitched. J. Coffey. No. 1,389,027; Aug. 30; v. 289; p. 843.
Buttons, Manufacturing connecting members or links for cuff-. J. W. Schoellner and J. P. Rowley. No. 1,388,973; Aug. 30; v. 289; p. 832.
Buttons, Package of. W. E. Elliott. No. 1,389,188; Aug. 30; v. 289; p. 875.
Cabinet, Filing-. C. R. Southwell. No. 1,389,279; Aug. 30; v. 289; p. 893.
Cabinet, Key-. J. Benson. No. 1,389,181; Aug. 30; v. 289; p. 873.
Cable-tightener. A. Barnes. No. 1,389,475; Aug. 30; v. 289; p. 932.
Caliper, Direct-reading micrometer-. A. L. Colburn. No. 1,389,028; Aug. 30; v. 289; p. 843.
Caliper, Taper-gaging. F. G. Renton. No. 1,389,381; Aug. 30; v. 289; p. 913.
Camera. A. E. Lipp. No. 1,388,870; Aug. 30; v. 289; p. 811.
Camera, Moving-picture. G. Ramsey. No. 1,388,892; Aug. 30; v. 289; p. 815.
Cameras, Back-lock for. A. H. Roikjer. No. 1,389,164; Aug. 30; v. 289; v. 870.
Cameras, Dissolving shutter for. H. Enders. No. 1,388,938; Aug. 30; v. 289; p. 825.
Can-bodies, Machine for forming. C. F. Hake, Jr., and A. Mill, Sr. No. 1,389,349; Aug. 30; v. 289; p. 907.
Can-cutter. E. B. Tracy. No. 1,389,019; Aug. 30; v. 289; p. 842.
Car-axle dust-guard. J. D. Benbow. No. 1,389,289; Aug. 30; v. 289; p. 895.
Car construction. R. V. Sage. No. 1,388,896; Aug. 30; v. 289; p. 816.
Car construction, Railway-. V. E. Sisson. No. 1,388,901; Aug. 30; v. 289; p. 817.
Car, Dump-. H. S. Hart. No. 1,389,350; Aug. 30; v. 289; p. 907.
Car, Dump-. W. J. Hoscelt. No. 1,389,359; Aug. 30; v. 289; p. 909.
Car, Railway-. W. W. Sylvester. No. 1,389,396; Aug. 30; v. 289; p. 916.
Car-seat. G. W. Dryer. No. 1,389,130; Aug. 30; v. 289; p. 863.
Cars, Brace for axle-housings in automotive. J. J. Walley. No. 1,389,083; Aug. 30; v. 289; p. 854.
Cars, Metal end structure for railway-. S. H. Conwell. No. 1,388,849; Aug. 30; v. 289; p. 807.
Carbureter. A. C. Stewart. No. 1,389,016; Aug. 30; v. 289; p. 841.
Carcass dehairing and cleaning machine. O. C. Schmidt. No. 1,388,899; Aug. 30; v. 289; p. 817.
Carcass dehairing and cleaning machine. C. G. and O. C. Schmidt. No. 1,388,898; Aug. 30; v. 289; p. 817.
Caviar and making and preserving the same, Red. M. P. Vucassovich. No. 1,388,982; Aug. 30; v. 289; p. 834.
Cellulose esters, Manufacture of. J. Koetschet and M. Beudet. No. 1,389,250; Aug. 30; v. 289; p. 887.
Chain-fastener. M. A. Fridgen. No. 1,389,498; Aug. 30; v. 289; p. 936.
Chain-fastener. J. M. Watkins and F. Anderson. No. 1,389,464; Aug. 30; v. 289; p. 929.
Chair. J. B. Noggle. No. 1,389,317; Aug. 30; v. 289; p. 900.
Chair-iron. D. R. Collier. No. 1,389,186; Aug. 30; v. 289; p. 874.
Check-protector. J. J. O'Brien. No. 1,389,377; Aug. 30; v. 289; p. 913.
Check-writer. W. B. Payne. No. 1,389,214; Aug. 30; v. 289; p. 880.
Check-writer. W. B. Payne. No. 1,389,215; Aug. 30; v. 289; p. 880.
Cheese and sterilizing the same, Swiss. L. E. Carpenter and E. E. Eldredge. No. 1,389,095; Aug. 30; v. 289; p. 856.
Chuck and like work-holder. J. D. Scaife. No. 1,389,272; Aug. 30; v. 289; p. 891.
Cistern. W. F. Misegadis. No. 1,389,151; Aug. 30; v. 289; p. 867.
Citrus-juice extractor. W. M. Murphy. No. 1,389,454; Aug. 30; v. 289; p. 928.
Clasp: *See*—
Bracket-clasp.
Cleaner: *See*—
Windshield-cleaner.
Cloth-machines, Clamp for. B. Rubinstein. No. 1,389,320; Aug. 30; v. 289; p. 901.
Clothes-presses, Steam-condenser for. J. Buff. No. 1,389,434; Aug. 30; v. 289; p. 924.
Clutch mechanism. C. H. Norton and A. Turner. No. 1,389,267; Aug. 30; v. 289; p. 890.
Coaster, Child's. P. A. Arner. No. 1,389,418; Aug. 30; v. 289; p. 921.
Coat and hat hanger, Combined. J. J. Primeau. No. 1,389,248; Aug. 30; v. 289; p. 880.
Cock, Air-. W. M. Robinson. No. 1,389,384; Aug. 30; v. 289; p. 911.
Coding and decoding device. J. P. Griffiths. No. 1,389,559; Aug. 30; v. 289; p. 948.
Coffee-percolator. B. H. and F. L. Calkin. No. 1,389,239; Aug. 30; v. 289; p. 885.
Coffee-percolator. R. E. Farmer. No. 1,389,298; Aug. 30; v. 289; p. 897.
Coffee pot, Drip-. E. S. Gardiner. No. 1,389,299; Aug. 30; v. 289; p. 897.
Coil, Reactance-. G. Harlow. No. 1,389,193; Aug. 30; v. 289; p. 876.
Coin-delivering machine. B. C. Hoefer. No. 1,388,861; Aug. 30; v. 289; p. 809.
Comb and brush. S. Novinsky. No. 1,389,210; Aug. 30; v. 289; p. 879.
Concrete construction, Reinforced. B. White. No. 1,389,404; Aug. 30; v. 289; p. 918.
Concrete-mold construction. G. Swenson. No. 1,388,904; Aug. 30; v. 289; p. 818.
Concrete mold or form. T. De La Mare. No. 1,389,128; Aug. 30; v. 289; p. 863.
Concrete ties, Rail-fastening for. E. Rogers. No. 1,388,972; Aug. 30; v. 289; p. 832.
Condiment-holder. D. Freedline. No. 1,389,443; Aug. 30; v. 289; p. 926.
Control apparatus. K. A. Simmon. No. 1,389,105; Aug. 30; v. 289; p. 858.
Control system. H. R. Meyer. No. 1,389,150; Aug. 30; v. 289; p. 867.
Controller. H. D. James. No. 1,389,142; Aug. 30; v. 289; p. 865.
Cookers and coolers, Container-transfer for pressure. A. Johnson. No. 1,389,447; Aug. 30; v. 289; p. 926.
Cooking utensil. C. J. Clefton. No. 1,389,241; Aug. 30; v. 289; p. 885.
Copy-holder. A. N. Woodruff. No. 1,389,411; Aug. 30; v. 289; p. 919.
Core and chuck, Collapsible. P. De Mattia. No. 1,389,438; Aug. 30; v. 289; p. 925.
Core, Collapsible. P. De Mattia. No. 1,389,439; Aug. 30; v. 289; p. 925.
Core, Collapsible. B. De Mattia. No. 1,389,440; Aug. 30; v. 289; p. 925.
Core, Collapsible. B. De Mattia. No. 1,389,441; Aug. 30; v. 289; p. 925.
Cotter-pin extractor. J. L. Williams. No. 1,389,406; Aug. 30; v. 289; p. 918.
Cotton chopper and cultivator, Combined. J. H. Smith. No. 1,389,461; Aug. 30; v. 289; p. 929.
Countersink-gage. H. D. Sparling. No. 1,389,390; Aug. 30; v. 289; p. 915.
Coupling device. H. C. Yingling. No. 1,389,282; Aug. 30; v. 289; p. 893.
Cow-tail holder, Sanitary. S. H. Hipkins. No. 1,389,507; Aug. 30; v. 289; p. 938.
Crank-pin-turning tool. A. Weber. No. 1,389,541; Aug. 30; v. 289; p. 945.
Crate for poultry and other products, Folding. C. L. Leonard. No. 1,389,199; Aug. 30; v. 289; p. 877.
Crate, Poultry-. W. Tucker. No. 1,389,170; Aug. 30; v. 289; p. 871.
Cultivator, Straddle-row. S. K. Dennis. No. 1,388,934; Aug. 30; v. 289; p. 824.
Cup: *See*—
Grease-cup. Lubricating-cup.
Cup-washer expander. J. G. Sabo. No. 1,389,222; Aug. 30; v. 289; p. 881.
Curtain-stretcher. J. Barry. No. 1,389,431; Aug. 30; v. 289; p. 923.
Cutter: *See*—
Can-cutter.
Cutter-grinding machine. J. J. Thacher. No. 1,389,325; Aug. 30; v. 289; p. 902.
Cutting and welding with fluid fuel, Machine for. J. Harris. No. 1,389,046; Aug. 30; v. 289; p. 846.
Cutting-machine. W. J. Brennan. No. 1,388,845; Aug. 30; v. 289; p. 806.
Cycle engine, Two-. C. N. Packer. No. 1,389,156; Aug. 30; v. 289; p. 868.
Davit, Ship's. R. H. Alexander and T. Graham. No. 1,389,336; Aug. 30; v. 289; p. 905.
Dental-floss holder. O. O. Martin. No. 1,389,064; Aug. 30; v. 289; p. 850.
Desk and seat, Combined school. D. R. Collier. No. 1,389,185; Aug. 30; v. 289; p. 874.
Dies in forging apparatus, Means for securing. K. A. Anderson. No. 1,389,286; Aug. 30; v. 289; p. 894.
Differential rack. C. J. West. No. 1,389,233; Aug. 30; v. 289; p. 883.
Display apparatus. W. R. Aimes and G. H. T. Schaefer. No. 1,389,177; Aug. 30; v. 289; p. 873.
Differential rack. C. J. West. No. 1,389,233; Aug. 30; v. 289; p. 883.
Digger: *See*—
Peanut-digger.
Door-hook. L. Randasso. No. 1,388,970; Aug. 30; v. 289; p. 831.
Door, Mill-type. J. W. Orrock. No. 1,389,211; Aug. 30; v. 289; p. 879.
Door-operating mechanism. W. J. Hosceit. No. 1,388,950; Aug. 30; v. 289; p. 827.
Door, Refrigerator-. A. C. Davis. No. 1,389,423; Aug. 30; v. 289; p. 921.
Drag conveyer and elevator. A. Higdon. No. 1,388,860; Aug. 30; v. 289; p. 809.

Drawers, Stop for. H. J. Cordes. No. 1,388,851; Aug. 30; v. 289; p. 807.
Drill: *See*—
Rock-drill.
Drill-sharpener. J. B. Gorman and J. A. Fertig. No. 1,389,501; Aug. 30; v. 289; p. 937.
Drilling-jig. J. F. Fetterly. No. 1,389,569; Aug. 30; v. 289; p. 950.
Drilling-machines, &c., Belt-drive mechanism for. J. F. Mirrielees. No. 1,388,876; Aug. 30; v. 289; p. 812.
Drilling-machines, Feed mechanism for. J. F. Mirrielees. No. 1,388,875; Aug. 30; v. 289; p. 812.
Driving mechanism. H. B. Garman. No. 1,389,042; Aug. 30; v. 289; p. 846.
Drum, Jacquard-. G. C. L. Tisch. No. 1,389,398; Aug. 30; v. 289; p. 916.
Dry cell. H. de Olaneta. No. 1,388,990; Aug. 30; v. 289; p. 835.
Dumping-door actuator. A. Kubik. No. 1,389,449; Aug. 30; v. 289; p. 927.
Dyeing-machine. J. A. Grundy. No. 1,389,444; Aug. 30; v. 289; p. 926.
Dynamo, Continuous-current. F. Kesselring. No. 1,389,051; Aug. 30; v. 289; p. 848.
Electric device. J. D. Zieley. No. 1,389,235; v. 289; p. 884.
Electric distribution systems, Protective arrangement for. P. V. Hunter and J. R. Beard. No. 1,389,306; Aug. 30; v. 289; p. 898.
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Train-control system or the like, Automatic. O. A. Ross. No. 1,389,220; Aug. 30; v. 289; p. 881.
Train-controlling mechanism. W. J. McKibben. No. 1,389,063; Aug. 30; v. 289; p. 850.

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Tread. W. Bernstein. No. 1,389,025; Aug. 30; v. 289; p. 843.
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Tube and making it, Reinforced. W. H. Kempton. No. 1,389,143; Aug. 30; v. 289; p. 866.
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Washing-machine, Rotary. G. Binder. No. 1,389,182; Aug. 30; v. 289; p. 874.
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Billiard-table rail. W. Conama. No. 58,715; Aug. 30; v. 289; p. 955.
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Carpet. H. L. Thompson. No. 58,840; Aug. 30; v. 289; p. 981.
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Electric ceiling-fixture. F. A. Frerichs. No. 58,740; Aug. 30; v. 289; p. 960.
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Electric chandelier. F. A. Frerichs. No. 58,736; Aug. 30; v. 289; p. 959.
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Electric-light stand, Sewer's. S. M. Israel. No. 58,757; Aug. 30; v. 289; p. 964.
Electric wall-bracket. F. A. Frerichs. No. 58,741; Aug. 30; v. 289; p. 960.
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Fabric, Textile. E. Krupicka. Nos. 58,769–71; Aug. 30; v. 289; p. 966.
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Fan. E. R. Field. No. 58,732; Aug. 30; v. 289; p. 959.
Favor. E. Gosliner. No. 58,745; Aug. 30; v. 289; p. 961.
Fork, Carver. J. H. Lickert. No. 58,779; Aug. 30; v. 289; p. 968.
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Lighting-fixture bracket-back. T. Dahl. No. 58,720; Aug. 30; v. 289; p. 957.
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Link, Stranded. A. Duda. No. 58,730; Aug. 30; v. 289; p. 958.
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Percolator. A. W. Paull. No. 58,818; Aug. 30; v. 289; p. 977.
Phonograph-cabinet. E. F. Harper. No. 58,748; Aug. 30; v. 289; p. 962.
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Scarf. N. Wishnefsky. No. 58,857; Aug. 30; v. 289; p. 984.
Shoe-horn. J. N. Mayhew. No. 58,797; Aug. 30; p. 289; p. 972.
Sifter-top receptacle. M. Wolf. No. 58,858; Aug. 30; v. 289; p. 984.
Signal. R. R. Thompson. No. 58,841; Aug. 30; v. 289; p. 981.
Spark-gap, Casing for a rotary. W. E. Woods and L. A. Benson. No. 58,859; Aug. 30; v. 289; p. 984.
Spike. A. Duda. No. 58,728; Aug. 30; v. 289; p. 958.
Spoons, forks, or similar articles, Handle for. A. G. Kintz. No. 58,767; Aug. 30; v. 289; p. 966.

Tea or coffee pot. W. J. Baring. No. 58,697; Aug. 30; v. 289; p. 952.
Telephone-support. L. Maisel. No. 58,794; Aug. 30; v. 289; p. 971.
Tire. W. P. Keith. No. 58,764; Aug. 30; v. 289; p. 965.
Tire. R. W. Lyons. No. 58,789; Aug. 30; v. 289; p. 970.
Tire, Rubber. D. W. Whipple. No. 58,847; Aug. 30; v. 289; p. 982.
Tire shoe or tread, Pneumatic. J. Martin. Nos. 58,795–6; Aug. 30; v. 289; p. 972.
Tire-tread. A. E. Lichtman. No. 58,778; Aug. 30; v. 289; p. 968.
Tire-tread. E. F. Lumber. No. 58,788; Aug. 30; v. 289; p. 970.
Tire-tread. L. E. Meyer. No. 58,801; Aug. 30; v. 289; p. 973.
Tire-tread. H. J. Richards. No. 58,826; Aug. 30; v. 289; p. 978.
Tire-tread or similar article. R. W. Hutchens. No. 58,756; Aug. 30; v. 289; p. 964.
Tire, Vehicle. P. J. McHugh. No. 58,791; Aug. 30; v. 289; p. 971.
Toy. F. A. Billmeyer. No. 58,699; Aug. 30; v. 289; p. 952.
Toy. J. Maier and T. Rice. Nos. 58,792–3; Aug. 30; v. 289; p. 971.
Toy bank. F. Yokel. No. 58,862; Aug. 30; v. 289; p. 984.
Tree support, Christmas. R. and F. J. Roesler. No. 58,830; Aug. 30; v. 289; p. 979.
Truck-caster. W. F. Herold. No. 58,751; Aug. 30; v. 289; p. 962.
Umbrella and parasol tip. B. O. Wright. No. 58,861; Aug. 30; v. 289; p. 984.
Vegetable-cutter. O. Reinert. No. 58,822; Aug. 30; v. 289; p. 977.
Vehicle, Beverage-dispensing. D. Richardson and C. N. Jacoby. No. 58,828; Aug. 30; v. 289; p. 978.
Vehicle glare-shield. J. D. Banks. No. 58,696; Aug. 30; v. 289; p. 952.
Vehicle, Motor. D. Richardson and C. N. Jacoby. No. 58,827; Aug. 30; v. 289; p. 977.
Vehicles, Curtain-window for. W. R. Johnston. Nos. 58,760–3; Aug. 30; v. 289; p. 965.
Vehicles, Tail-light for. V. I. Cilley. No. 58,712; Aug. 30; v. 289; p. 955.
Wall corner-receptacle. H. D. Lillibridge. No. 58,784; Aug. 30; v. 289; p. 969.
Wall-receptacle. H. D. Lillibridge. Nos. 58,780–3; Aug. 30; v. 289; pp. 968–9.
Wall-receptacle. H. D. Lillibridge. No. 58,785; Aug. 30; v. 289; p. 970.
Wardrobe-trunks, Butterfly garment-retainer for. W. W. Dodge. No. 58,725; Aug. 30; v. 289; p. 957.
Wardrobe-trunks, Oval garment-retainer for. W. W. Dodge. No. 58,726; Aug. 30; v. 289; p. 958.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Anesthetic for use in dentistry. A. M. Abrams. No. 146,060; Aug. 30; v. 289; p. 1013.
Ant-exterminators, Liquid. J. H. Edelen. No. 146,084; Aug. 30; v. 289; p. 1013.
Antitoxin. T. B. Chemical Company. No. 146,070; Aug. 30; v. 289; p. 1013.
Apple-butter. Highland Apple Company. No. 146,103; Aug. 30; v. 289; p. 1014.
Bakers' products—viz., bread. E. B. Nicolait No. 146,120; Aug. 30; v. 289; p. 1015.
Blankets, Manufactured. Edson Moore & Company. No. 146,085; Aug. 30; v. 289; p. 1013.
Candles and chocolates. Cook-Welker-Hire. No. 146,074; Aug. 30; v. 289; p. 1013.
Candy, Stick. Garrison-Cook Candy Co. No. 146,099; Aug. 30; v. 289; p. 1014.
Candy. New England Confectionery Company. No. 146,122; Aug. 30; v. 289; p. 1015.
Candy. Spoehr's. No. 146,143; Aug. 30; v. 289; p. 1015.
Cathartics and purgatives. Raabe & Bowman. No. 146,135; Aug. 30; v. 289; p. 1015.
Chemical, mineral, and vegetable substances. Calco Chemical Company. No. 146,069; Aug. 30; v. 289; p. 1013.
Chlorophyl preparation. Merck & Co. No. 146,116; Aug. 30; v. 289; p. 1014.
Concentrated, maltless syrup. C. J. Griffin. No. 146,102; Aug. 30; v. 289; p. 1014.
Cotton and cotton and silk mixture piece goods. N. Fluegelman & Co. No. 146,089; Aug. 30; v. 289; p. 1014.
Cotton, drills, twills in the piece. Fred S. Bennett, Inc. No. 146,067; Aug. 30; v. 289; p. 1013.
Cotton piece goods. Pacific Mills. No. 146,126–7; Aug. 30; v. 289; p. 1015.
Cream and powder, rouge, &c., Face. Mariet Company. No. 146,117; Aug. 30; v. 289; p. 1014.
Dolls. Trego Doll Mfg. Co. No. 146,150; Aug. 30; v. 289; p. 1016.
Dye for leather, Black. Tinctorial Company. No. 146,148; Aug. 30; v. 289; p. 1015.
Dyes. North American Dye Corporation. No. 146,121; Aug. 30; v. 289; p. 1015.
Fabrics in the piece, Pile. Salt's Textile Manufacturing Company. No. 146,139; Aug. 30; v. 289; p. 1015.
Facial masks or packs. A. M. Franco. No. 146,098; Aug. 30; v. 289; p. 1014.
Feeds and mashes. W. M. Cosby Flour & Grain Co. No. 146,075; Aug. 30; v. 289; p. 1015.
Flour, Self-rising pancake. Coger, Tucker and Cheney. No. 146,073; Aug. 30; v. 289; p. 1013.
Flour, Self-rising wheat. Portland Flouring Mills Co No. 146,125; Aug. 30; v. 289; p. 1015.
Flour, Wheat. Southwestern Milling Company. No. 146,142; Aug. 30; v. 289; p. 1015.
Fluxes, Mineral. Cleveland Flux Company. No. 146,072; Aug. 30; v. 289; p. 1013.
Food, Stock and poultry. Goodenuf Milling & Feed Co. No. 146,101; Aug. 30; v. 289; p. 1014.
Foods and ingredients of foods. Globe Grain & Milling Co. No. 146,100; Aug. 30; v. 289; p. 1014.
Fruits, jams, jellies, &c. Hawaiian Fruit Products Company. No. 146,105; Aug. 30; v. 289; p. 1014.
Furniture and automobile polish. U. S. Mop Company. No. 146,152; Aug. 30; v. 289; p. 1016.
Hair-grower. M. File. No. 146,088; Aug. 30; v. 289; p. 1014.
Hair-tonic. J. G. Emerson. No. 146,086; Aug. 30; v. 289; p. 1014.
Hair-remover and face-cleanser. R. Schoenholz. No. 146,137; Aug. 30; v. 289; p. 1015.
Insecticides. L. H. Fontaine. No. 146,091; Aug. 30; v. 289; p. 1014.
Jersey-cloth in the piece. M. Dorfman. No. 146,081; Aug. 30; v. 289; p. 1013.
Liniment. N. Hodge. No. 146,107; Aug. 30; v. 289; p. 1014.
Liniment for burns, sprains, sores, &c. J. K. Huston. No. 146,106; Aug. 30; v. 289; p. 1014.
Liniment for rheumatism. G. Peca. No. 146,124; Aug. 30; v. 289; p. 1015.
Medicinal preparation for the hair and scalp. A. J. Trasso. No. 146,149; Aug. 30; v. 289; p. 1015.
Medicinal preparation. J. P. Kayatta. No. 146,111; Aug. 30; v. 289; p. 1014.
Medicinal preparation for constipation. Delson Chemical Co. No. 146,079; Aug. 30; v. 289; p. 1015.
Medicine, Digestive. N. Rippenbein. No. 146,134; Aug. 30; v. 289; p. 1015.
Medicines. Frederick Stearns & Co. No. 146,144; Aug. 30; v. 289; p. 1015.
Mixtures employed as a shortening agent, Dry pulverulent. Dry Oil Products. No. 146,082; Aug. 30; v. 289; p. 1013.
Oil of flowers, leaves, &c., Natural. Ungerer & Company. No. 146,153; Aug. 30; v. 289; p. 1016.
Paper, Binders for loose sheets of. Paragon Binder Corporation. No. 146,123; Aug. 30; v. 289; p. 1015.
Pharmaceutical preparations. Delson Chemical Co. No. 146,080; Aug. 30; v. 289; p. 1013.
Phonographs, graphophones, and talking-machines. Root & Company. No. 146,136; Aug. 30; v. 289; p. 1015.
Perfumes, toilet waters, face-powders. Frederick Stearns & Co. No. 146,145; Aug. 30; v. 289; p. 1015.
Perfumes, toilet waters, face-powders, &c. Heinrich Chemical Company. No. 146,104; Aug. 30; v. 289; p. 1014.
Perfumes, toilet waters, &c. Parfumerie Houbigant. No. 146,128; Aug. 30; v. 289; p. 1015.
Pomade and treating-oil, Hair. Lecian's. No. 146,114; Aug. 30; v. 289; p. 1014.
Powder, Liquid face. E. B. Finlayson. No. 146,090; Aug. 30; v. 289; p. 1014.
Powders, rouges, &c., Face. Julius Schmid Incorporated. No. 146,140; Aug. 30; v. 289; p. 1015.
Preparation for treatment of lumbago and rheumatism. S. Arlo. No. 146,065; Aug. 30; v. 289; p. 1013.
Remedy, Pile. J. F. Logan. No. 146,113; Aug. 30; v. 289; p. 1014.
Ribbons and silks, satins, and mixtures in the piece. Johnson Cowdin & Co. Nos. 146,076–8; Aug. 30; v. 289; p. 1013.
Rice. Mrs. Charles Saint. No. 146,138; Aug. 30; v. 289; p. 1015.
Salve. J. Shterk. No. 146,141; Aug. 30; v. 289; p. 1015.
Salve for piles. Herboline Company. No. 146,108; Aug. 30; v. 289; p. 1014.
Salt, Table. Bates & Abbott. No. 146,066; Aug. 30; v. 289; p. 1013.
Silk piece goods. B. Altman & Co. No. 146,063; Aug. 30; v. 289; p. 1013.
Silk piece goods. H. R. Mallinson & Co. No. 146,115; Aug. 30; v. 289; p. 1014.
Silk piece goods. H. R. Mallinson & Co. No. 146,118; Aug. 30; v. 289; p. 1015.
Silks in the piece. Stehl Silks Corporation. No. 146,146; Aug. 30; v. 289; p. 1015.
Solutions. Alcohol Products Company. No. 146,062; Aug. 30; v. 289; p. 1013.
Sugar. American Sugar Refining Company. No. 146,064; Aug. 30; v. 289; p. 1013.

Sulfur-terpene compounds and solutions. Clapp Products Company. No. 146,071; Aug. 30; v. 289; p. 1013.
Tire-patches. J. M. Stucker. No. 146,147; Aug. 30; v. 289; p. 1015.
Toilet preparations. Parfumerie Lournay, Inc. Nos. 146,129–32; Aug. 30; v. 289; p. 1015.
Toilet preparations, &c. A. E. Kiesling. No. 146,112; Aug. 30; v. 289; p. 1014.
Tonic compound for indigestion, torpid liver, &c. United Medico-Chemi Hospital, Inc. No. 146,151; Aug. 30; v. 289; p. 1016.
Toys. Bob-Betty Belongings. No. 146,068; Aug. 30; v. 289; p. 1013.
Vehicles. G. C. Adams. No. 146,061; Aug. 30; v. 289; p. 1013.
Vinegar, sauer-kraut, jams, &c. Peerless Food Manufacturing Co. No. 146,133; Aug. 30; v. 289; p. 1015.
Vulcanization of rubber, Compounds for use in. Michigan Chemical Company. No. 146,119; Aug. 30; v. 289; p. 1015.
Woolen and woolen and silk piece goods. Joseph Eckstein, Inc. No. 146,083; Aug. 30; v. 289; p. 1013.
Woolen, cotton, and linen fabrics in the piece and combinations thereof. Haas Brothers Fabrics Corporation. No. 146,109; Aug. 30; v. 289; p. 1014.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 146,092–7; Aug. 30; v. 289; p. 1014.
Worsted and woolen textile fabrics. Holden-Leonard Company. No. 146,110; Aug. 30; v. 289; p. 1014.
Yeast, Medicinal. Enterprise Dry Yeast Corporation. No. 146,087; Aug. 30; v. 289; p. 1014.

ALPHABETICAL LIST OF LABELS.

"Allen Tire Case." (For Cases for Automobile-Tires.) The Allen Auto Specialty Co. Nos. 23,252–5; Aug. 30; v. 289; p. 1019.
"American Brand." (For Screen Wire-Cloth.) American Wire Fabrics Company. No. 23,258; Aug. 30; v. 289; p. 1019.
"Arota." (For Cigars.) Union Cigar Maker's Co-Operative Society. No. 23,328; Aug. 30; v. 289; p. 1020.
"Auto Glo." (For Containers Holding Auto Glo, a Polish for Automobile-Bodies and All Highly-Finished Surfaces.) B. Heller & Co. No. 23,292; Aug. 30; v. 289; p. 1020.
"Bakers' Friend. For Containers Holding Bakers' Friend, a Flavoring Compound.) B. Heller & Co. No. 23,290; Aug. 30; v. 289; p. 1019.
"Bohannan." (For Locks.) Wilson Bohannan, Inc. No. 23,273; Aug. 30; v. 289; p. 1019.
"Brach's Chocolates Six Favorite Selections." (For Candy.) E. G. Brach & Sons. No. 23,275; Aug. 30; v. 289; p. 1019.
"Brach's Fruits and Nuts in Cream Chocolate Covered." (For Candy.) E. G. Brach & Sons. No. 23,274; Aug. 30; v. 289; p. 1019.
"Brilliant Hard Mixture." (For Candy.) E. G. Brach & Sons. No. 23,276; Aug. 30; v. 289; p. 1019.
"Buschtee." (For Carbonated Tea Beverage.) Anheuser-Busch, Incorporated. No. 23,259; Aug. 30; v. 289; p. 1019.
"Cleanall." (For Cleaning Compounds.) Cleanall Chemical Company. No. 23,279; Aug. 30; v. 289; p. 1019.
"Cloverfield." (For Butter.) H. P. Matthews. No. 23,303; Aug. 30; v. 289; p. 1020.
"Crane." (For Overalls.) C. E. Hymson. No. 23,296; Aug. 30; v. 289; p. 1020.
"Deodorizer." (For a Preparation for Destroying the Odor of Perspiration.) Harriet Hubbard Ayer. No. 23,271; Aug. 30; v. 289; p. 1019.
"Depilatory." (For a Preparation for Removing Hair.) Harriet Hubbard Ayer. No. 23,262; Aug. 30; v. 289; p. 1019.
"Eveready Ford Ignition Battery." (For Electric Batteries.) National Carbon Company. No. 23,312; Aug. 30; v. 289; p. 1020.
"Eveready Ford Lighting Battery." (For Electric Batteries.) National Carbon Company. No. 23,311; Aug. 30; v. 289; p. 1020.
"Eveready Gas Engine Battery." (For Electric Batteries.) National Carbon Company. No. 23,313; Aug. 30; v. 289; p. 1020.
"Eveready Lighting and Ignition Battery." (For Electric Batteries.) National Carbon Company. No. 23,316; Aug. 30; v. 289; p. 1020.
"Eveready Portable Lighting Battery." (For Electric Batteries.) National Carbon Company. No. 23,314; Aug. 30; v. 289; p. 1020.
"Eveready Tractor Battery." (For Electric Batteries.) National Carbon Company. No. 23,315; Aug. 30; v. 289; p. 1020.
"Glemby Hair Net." (For Hair-Nets.) S. Glemby's Sons Co. No. 23,283; Aug. 30; v. 289; p. 1019.
"Gordons Chocolates." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,310; Aug. 30; v. 289; p. 1020.
"Graham Bread." (For Bread.) Newark Paraffine & Parchment Paper Co. No. 23,317; Aug. 30; v. 289; p. 1020.
"Greysolon." (For Boxes Containing Hand-Rolled Bitter Sweets.) Milwaukee Paper Box Company. No. 23,308; Aug. 30; v. 289; p. 1020.
"Hand Lotion." (For Lotion for Hands.) Harriet Hubbard Ayer. No. 23,267; Aug. 30; v. 289; p. 1019.
"Heller's Van-Boquet." (For Containers Holding Heller's Van-Boquet, a Flavoring Preparation for Ice-Cream, Confectionery, Candy, and Pastry.) B. Heller & Co. No. 23,293; Aug. 30; v. 829; p. 1020.
"Hershey's Superior Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,306; Aug. 30; v. 289; p. 1020.
"Holdit." (For Elastic Waistbands.) A. L. Vilander. No. 23,332; Aug. 30; v. 289; p. 1020.
"Hurts Only Dirt." (For Cleaning and Scouring Compound for Household Use and for Cleaning, Scouring, and Polishing Metal, Glass, Woodwork, Machinery, &c.) Fitzpatrick Bros. No. 23,281; Aug. 30; v. 289; p. 1019.
"Jean the Superior Hair Net." (For Hair-Nets.) S. Glemby. No. 23,288; Aug. 30; v. 289; p. 1019.
"Kaffo." (For Carbonated Coffee Beverage.) Anheuser-Busch, Inc. No. 23,260; Aug. 30; v. 289; p. 1019.
"Kanto." (For Packages Containing a Remedy for Leucorrhea.) Kanto Company. No. 23,297; Aug. 30; v. 289; p. 1020.
"Kil-Ol." (For a Disinfectant, Deodorizer, and Germicide.) P. V. Stieffen. No. 23,327; Aug. 30; v. 289; p. 1020.
"Kina-Tone." (For Bottles Containing Kina-Tone.) W. D. Del-Wit. No. 23,280; Aug. 30; v. 289; p. 1019.
"Kirkman's Floating Soap." (For Wrapper for a Floating Soap for Toilet and Bath.) Kirkman & Son. No. 23,298; Aug. 30; v. 289; p. 1020.
"Lemon-Zest." (For Containers Holding Lemon-Zest, a Lemon Flavoring Compound.) B. Heller & Co. No. 23,291; Aug. 30; v. 289; p. 1019.
"Little Brown Jug." (For Syrup for Food Purposes.) J. L. Klein. No. 23,299; Aug. 30; v. 289; p. 1020.
"Lorraine Hair Net." (For Hair-Nets.) S. Glemby. No. 23,286; Aug. 30; v. 289; p. 1019.
"Lovelee Hair Net." (For Hair-Nets.) S. Glemby. No. 23,285; Aug. 30; v. 289; p. 1019.
"Manville Ruffit Cloth." (For Piece Goods.) Manville Company. Nos. 23,300–2; Aug. 30; v. 289; p. 1020.
"Marshmallow Cream Corn." (For Confectionery-Containers.) F. W. Amend Co. No. 23,256; Aug. 30; v. 289; p. 1019.
"Maxwell House Good to the Last Drop." (For Coffee.) Cheek-Neal Coffee Company. No. 23,278; Aug. 30; v. 289; p. 1019.
"Neo-Balsam Compound." (For Packages Containing Filling Material for Filling the Root-Canals of Teeth.) A. A. Brown. No. 23,277; Aug. 30; v. 289; p. 1019.
"Old English Lavender Shampoo." (For Preparation for Cleaning the Hair.) Harriet Hubbard Ayer. No. 23,268; Aug. 30; v. 289; p. 1019.
"$1 000.00 Guaranteed Bed-Bug Killer." (For Insecticide for Destroying Bedbugs, Mites, Ticks, Poultry-Lice, Ants, and other Insects.) B. Heller & Co. No. 23,294; Aug. 30; v. 289; p. 1020.
"Playhouse." (For Candy.) C. May. No. 23,304; Aug. 30; v. 289; p. 1020.
"Porto Rico Juceful Grapefruit." (For Grapefruit.) Porto Rico Consolidated Fruit Company. No. 23,322; Aug. 30; v. 289; p. 1020.
"Porto Rico Juceful Oranges." (For Oranges.) Porto Rico Consolidated Fruit Company. No. 23,324; Aug. 30; v. 289; p. 1020.
"Porto Rico Juceful Pineapple." (For Pineapples.) Porto Rico Consolidated Fruit Company. No. 23,323; Aug. 30; v. 289; p. 1020.
"Pure Bland Soap." (For Toilet Soap.) Harriet Hubbard Ayer. No. 23,266; Aug. 30; v. 289; p. 1019.
"Red Rose." (For Talcum Powder.) Harriet Hubbard Ayer. No. 23,265; Aug. 30; v. 289; p. 1019.
"Regina Hair Nets." (For Hair-Nets.) S. Glemby. No. 23,287; Aug. 30; v. 289; p. 1019.
"Rosalie." (For Boxes Containing Chocolate Candy.) Milwaukee Paper Box Company. No. 23,309; Aug. 30; v. 289; p. 1020.
"Rosemary." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,305; Aug. 30; v. 289; p. 1020.
"Rosy Dep-Urants." (For Containers for a Cathartic Drug Preparation in Tablet Form.) Phoenix Drug Co. No. 23,321; Aug. 30; v. 289; p. 1020.
"Samsonet, the Strength is in the Hair." (For Hair-Nets.) S. Glemby's Sons Co. No. 23,284; Aug. 30; v. 289; p. 1019.

"Scalpinol." (For Hair Tonic and Invigorant.) Harriet Hubbard Ayer. No. 23,263; Aug. 30; v. 289; p. 1019.

"Screen Wire Cloth." (For Screen Wire-Cloth.) American Wire Fabrics Company. No. 23,257; Aug. 30; v. 289; p. 1019.

"Sha-Ko Mechanics Antiseptic Hand Soap Powder." (For Hand Soap Powder.) United Stores Supply Co. No. 23,330; Aug. 30; v. 289; p. 1020.

"Silver Lake." (For Cake.) United States Foil Company. No. 23,329; Aug. 30; v. 289; p. 1020.

"Skin and Tissue Builder." (For Preparation for the Skin and Tissues and Massage-Cream.) Harriet Hubbard Ayer. No. 23,269; Aug. 30; v. 289; p. 1019.

"Skin Whitener." (For a Preparation for Whitening the Skin.) Harriet Hubbard Ayer. No. 23,270; Aug. 30; v. 289; p. 1019.

"Sterling Dairy Feed." (For Bags of Dairy Feed.) Northrup, King & Co. No. 23,318; Aug. 30; v. 289; p. 1020.

"Sterling Egg Mash." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,320; Aug. 30; v. 289; p. 1020.

"Sterling Scratch Feed." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,319; Aug. 30; v. 289; p. 1020.

"Sundial Chocolates." (For Boxes Containing Cream Caramels, Nut Centers, Chewing-Chocolates, and Mellow Centers.) Milwaukee Paper Box Company. No. 23,307; Aug. 30; v. 1020.

"The Gaynor Light Control." (For Electric Light-Control Switches.) Gaynor Manufacturing Company. No. 23,282; Aug. 30; v. 289; p. 1019.

"The Palace Cigar." (For Cigars.) H. Herman. No. 23,295; Aug. 30; v. 289; p. 1020.

"The Tell-Tale Book." (For Account-Books.) W. D. Smith. Nos. 23,325–6; Aug. 30; v. 289; p. 1020.

"Tru-Lax." (For Boxes Containing True Chocolate Laxatives.) A. Blackstone. No. 23,272; Aug. 30; v. 289; p. 1019.

"Uncle Tom Shirt." (For Shirts.) Western Shirt Co. No. 23,333; Aug. 30; v. 289; p. 1020.

"Uyratis." (For a Medicinal Preparation.) Uyratis Co. No. 23,331; Aug. 30; v. 289; p. 1020.

"Violette Petals." (For Talcum Powder.) Harriet Hubbard Ayer. No. 23,261; Aug. 30; v. 289; p. 1019.

"Wine-ola." (For Non-Intoxicant Beverages.) Wine-Ola Co. No. 23,334; Aug. 30; v. 289; p. 1020.

"Wrinkle Eradicator." (For Preparations for Removing Wrinkles from the Skin.) Harriet Hubbard Ayer. No. 23,264; Aug. 30; v. 289; p. 1019.

"Zanzibarine." (For a Preparation for Coloring Ham and Sausage Strings.) B. Heller & Co. No. 23,289; Aug. 30; v. 289; p. 1019.

ALPHABETICAL LIST OF PRINTS.

"As Delicious as Bonbons." (For Advertising Purposes for Mint Laxatives.) Partola Mfg. Co. No. 5,722; Aug. 30; v. 289; p. 1021.

"Assortment Shoe Laces." (For Advertising Purposes for Shoe-Laces.) W. H. Joslin. No. 5,716; Aug. 30; v. 289; p. 1021.

"Complexions—Night and Noon." (For Advertising Purposes for Palmolive Soap.) Palmolive Company. No. 5,720; Aug. 30; v. 289; p. 1021.

"Dressmakers Snap Fasteners." (For Advertising Purposes for Snap-Fasteners.) M. Messler. No. 5,717; Aug. 30; v. 289; p. 1021.

"Every Drop Awakens Flavor Heins Vinegars." (For Advertising Purposes for Heinz Vinegars.) H. J. Heinz Co. No. 5,714; Aug. 30; v. 289; p. 1021.

"For Deep Chest Colds Use Vicks Vaporub. It Penetrates and Vaporizes. (For Advertising Purposes for Salve.) Vick Chemical Co. No. 5,728; Aug. 30; v. 289; p. 1021.

"For Kiddies Cold Troubles Vicks Vaporub You Just Rub It On." (For Advertising Purposes for Salve.) Vick Chemical Co. No. 5,729; Aug. 30; v. 289; p. 1021.

"How Shall I Cut That Keyway?" (For Advertising Purposes for Keyway Sets and Machines for Use in Connection with Same.) Velco Manufacturing Company. No. 5,726; Aug. 30; v. 289; p. 1021.

"It's Hoyt's, You'll Like It." (For Candy—Namely Selected Sweets.) Howard H. Hoyt Candy Co. No. 5,715; Aug. 30; v. 289; p. 1021.

"Post Toasties." (For Advertising Purposes for Cereal Foods—Corn Flakes.) Postum Cereal Co. No. 5,723; Aug. 30; v. 289; p. 1021.

"Red Seal Hair Nets Are Good." (For Advertising Hair-Nets.) Morris, Mann & Reilly. No. 5,718; Aug. 30; v. 289; p. 1021.

"Rubberset Paint Brushes They Leave No Bristles on the Job." (For Advertising Purposes for Paint and Brushes.) Rubber & Celluloid Products Company. No. 5,724; Aug. 30; v. 289; p. 1021.

"So Smooth So Snug." (For Advertising Purposes for Hosiery.) Notaseme Hosiery Company. No. 5,719; Aug. 30; v. 289; p. 1021.

"The Doctor in Candy Form." (For Advertising Purposes for Nut Laxatives.) Partola Mfg. Co. No. 5,721; Aug. 30; v. 289; p. 1021.

"The Factories Behind the Shade." (For Advertising Purposes for Window-Shades.) Columbia Mills Inc. No. 5,713; Aug. 30; v. 289; p. 1021.

"United Fuel & Supply Co. Building Supplies." (For Advertising Purposes for Building Supplies.) United Fuel & Supply Company. No. 5,725; Aug. 30; v. 289; p. 1021.

"Vicks Vaporub Over 17 Million Jars Used Yearly." (For Advertising Purposes for Salve.) Vick Chemical Co. No. 5,727; Aug. 30; v. 289; p. 1021.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

(REGISTRATION APPLIED FOR.)

Alcohol, Medicated or denatured. Owl Drug Company. No. 147,732; Aug. 30; v. 289; p. 1005.

Antispasmodic and sedative given for intestinal affection. Chemische Fabrik vormals Sandoz. No. 143,917; Aug. 30; v. 289; p. 994.

Antispasmodic and sedative given for intestinal affection. Chemische Fabrik vormals Sandoz. No. 145,255; Aug. 30; v. 289; p. 997.

Apples, potatoes, and milk, dressed chickens, Fresh. P. N. Papason. No. 141,024; Aug. 30; v. 289; p. 992.

Attrition mills and coffee shellers. Engelberg Huller Company. No. 146,960; Aug. 30; v. 289; p. 1001.

Automobile-crank-case support. E. D. Wolbert. No. 147,386; Aug. 30; v. 289; p. 1003.

Automobile rim-tools, tire-pumps, and gear-pullers. R. D. Hughes. No. 147,160; Aug. 30; v. 289; p. 1002.

Bacon. John Morrell & Company. No. 147,365; Aug. 30; v. 289; p. 1003.

Bats, Baseball. Hilton-Collins Co. No. 144,772; Aug. 30; v. 289; p. 996.

Beans of all kinds, Dried. Trinidad Bean and Elevator Company. No. 148,097; Aug. 30; v. 289; p. 1007.

Beverages and syrups for making same, Non-alcoholic, non-cereal, maltless. Kansas City Kola Company. No. 147,294; Aug. 30; v. 289; p. 1003.

Beverage, Maltless, non-alcoholic. Queen City Bottling Company. No. 145,475; Aug. 30; v. 289; p. 997.

Beverage, Non-alcoholic. G. U. Lipshuich. No. 146,718; Aug. 30; v. 289; p. 1000.

Beverage, Non-intoxicating cereal, malt. D. G. Yuengling & Son. No. 133,075; Aug. 30; v. 289; p. 987.

Beverages and purified drinking-water. Non-alcoholic. Electrozone Water Company. No. 142,701; Aug. 30; v. 289; p. 993.

Beverages and syrups for making same. Evers-Rehm Co. No. 144,806; Aug. 30; v. 289; p. 996.

Beverages, Malt and hop. Sethness Company. No. 133,110; Aug. 30; v. 289; p. 988.

Beverages, Maltless, non-alcoholic. Stoneward Corp. No. 132,761; Aug. 30; v. 289; p. 987.

Beverages, Non-alcoholic, non-cereal, maltless. B. F. Ruth. No. 146,500; Aug. 30; v. 289; p. 1000.

Biscuit and crackers. National Biscuit Company. No. 145,844; Aug. 30; v. 289; p. 998.

Biscuit, crackers, and cake. National Biscuit Company. No. 145,841; Aug. 30; v. 289; p. 998.

Bluing and ammonia. Thoro Products Mfg. Co. No. 138,243; Aug. 30; v. 289; p. 990.

Brushes, Dust-. Woven Down Duster Company. No. 138,307; Aug. 30; v. 289; p. 990.

Cambrics in the piece. Berkeley Company. No. 150,176; Aug. 30; v. 289; p. 1010.

Camphor, Spirits of. Wolfe-Barrer Co. No. 124,702; Aug. 30; v. 289; p. 986.

Candy. Palmer Candy Co. No. 147,122; Aug. 30; v. 289; p. 1001.

Candy. Samoset Chocolates Company. Nos 134,145–6; Aug. 30; v. 289; p. 988.

Candy. The Snyder Chaffee Company. No. 147,051; Aug. 30; v. 289; p. 1001.

Canned and fresh fruits and vegetables, citrus fruits. California Vegetable Union. No. 129,696; Aug. 30; v. 289; p. 987.

Carbon-remover. G. F. Wolfe. No. 147,542; Aug. 30; v. 289; p. 1004.

Card game. P. E. Hurst. No. 145,687; Aug. 30; v. 289; p. 998.

Cardboard and pictorial toys for teaching children simple words. Davis and Ford. No. 141,559; Aug. 30; v. 289; p. 992.

Cars, Play-. Children's Vehicle Corporation. No. 140,988; Aug. 30; v. 289; p. 992.

Checks, shopping-checks promissory notes, and drafts, Blank forms for. H. C. Boschen. No. 143,250; Aug. 30; v. 289; p. 994.

Cigarettes. E. A. Condax & Company. No. 135,841; Aug. 30; v. 289; p. 989.

Cloth and fabrics in the piece. American Cellulose & Chemical Manufacturing Company. No. 148,911; Aug. 30; v. 289; p. 1009.

Coal. Roth Coal Company. No. 148,854; Aug. 30; v. 289; p. 1009.

Coaster-sleds. G. E. Pollock. No. 142,795; Aug. 30; v. 289; p. 993.

Coffee. J. Aron & Company. No. 148,786; Aug. 30; v. 289; p. 1009.

Coffee. I. D. Richheimer. No. 148,552; Aug. 30; v. 289; p. 1008.

Concrete-mixers. A. L. Frame. No. 145,080[illegible]; Aug. 30; v. 289; p. 996.

Cornmeal, Graham and wheat flour, dairy, horse, &c., feeds. H. A. Liedel & Son. No. 139,040; Aug. 30; v. 289; p. 990.

Cotton piece goods. Hinck & Muller. No. 150,315; Aug. 30; v. 289; p. 1011.

Cotton piece goods. James F. White & Co. Nos. 150,297–9; Aug. 30; v. 289; p. 1010–11.

Cotton, sewing-thread, and yarn, Spool-. The American Thread Company. No. 150,388; Aug. 30; v. 289; p. 1011.

Cotton, sewing-thread, and yarn, Spool-. The American Thread Company. No. 150,394; Aug. 30; v. 289; p. 1011.

Cutlery. Mappin & Webb. No. 143,825; Aug. 30; v. 289; p. 994.

Dairy products. Red Wing Corporation Company. No. 137,147; Aug. 30; v. 289; p. 989.

Dental cream. G. F. Smith. No. 147,740; Aug. 30; v. 289; p. 1005.

Dental-plate suction devices. J. Lehner. No. 120,542; Aug. 30; v. 289; p. 986.

Dolls. G. F. Berkander. No. 141,894; Aug. 30; v. 289; p. 993.

Dolls. Notaseme Hosiery Company. No. 145,355; Aug. 30; v. 289; p. 997.

Dolls. Notaseme Hosiery Company. No. 146,226; Aug. 30; v. 289; p. 999.

Dolls, Mechanical. F. B. Meehan. No. 141,730; Aug. 30; v. 289; p. 993.

Doughnuts. Gahan Baking Company. No. 120,665; Aug. 30; v. 289; p. 986.

Educational and amusement appliance, Child's. G. L. E. Klingbeil. No. 147,829; Aug. 30; v. 289; p. 1005.

Envelops and mailing-containers. Letalog Mailer Co. No. 147,031; Aug. 30; v. 289; p. 1001.

Expectorant for bronchitis, whooping-cough, &c. Chemische Fabrik vormals Sandoz. No. 143,916; Aug. 30; v. 289; p. 994.

Feed for horses, mules, cattle, hogs, and poultry. Beaumont Cotton Oil Mill Co. No. 105,163; Aug. 30; v. 289; p. 985.

Flies, gravers, tweezers, &c. H. Paulson. No. 140,402; Aug. 30; v. 289; p. 991.

Fire-brick, hollow building-tile, face-brick, &c. Crush Brick Company. No. 145,882; Aug. 30; v. 289; p. 998.

Fire-extinguishers, Hand. Ideal Fire Extinguisher Co. No. 146,258; Aug. 30; v. 289; p. 999.

Fishing-lines. Marshall-Wells Company. No. 148,451; Aug. 30; v. 289; p. 1008.

Foot appliances, Corrective. Wizard Foot Appliance Company. No. 129,114; Aug. 30; v. 289; p. 987.

Fruits and vegetables, Fresh. Merced Growers Packing Ass'n. No. 147,445; Aug. 30; v. 289; p. 1004.

Furnaces, Refractory composition for use in. General Electric Company. No. 144,521; Aug. 30; v. 289; p. 995.

Furniture and automobile polish. Wisconsin Compounding Company. No. 149,162; Aug. 30; v. 289; p. 1009.

Game apparatus. B. M. Hutchison. No. 140,837; Aug. 30; v. 289; p. 992.

Gasolene-improver. W. H. Pugh. No. 147,734; Aug. 30; v. 289; p. 1005.

Glare-shields, Automobile. Protectoglare Co. No. 133,493; Aug. 31; v. 289; p. 988.

Glass. Corning Glass Works. No. 134,303; Aug. 30; v. 289; p. 988.

Glass globes and reflectors. Holophane Glass Co. Inc. Nos. 147,197–8; Aug. 30; v. 289; p. 1002.

Golf-balls. Midland Rubber Co. Ltd. No. 144,032; Aug. 30; v. 289; p. 994.

Golf-clubs. S. Tousey. No. 148,249; Aug. 30; v. 289; p. 1007.

Guava jelly, canned guavas, &c. F. E. Smith. No. 141,808; Aug. 30; v. 289; p. 993.

Gum, Chewing-. American Chicle Company. No. 147,330; Aug. 30; v. 289; p. 1003.

Gun-recoil pads for hand-arms. B. F. Goodrich Company. No. 137,463; Aug. 30; v. 289; p. 989.

Gun-recoil pads for hand-arms. B. F. Goodrich Company. No 137,466; Aug. 30; v. 289; p. 989

Hair-nets. Empire Notion Co. No. 149,955; Aug. 30; v. 289; p. 1010.

Hair-nets. Samstag & Hilder Bros. No. 148,676; Aug. 30; v. 289; p. 1009.

Hair-tonic. Conner & Walter Company. No. 143,910; Aug. 30; v. 289; p. 994.

Hams, bacon, picnic-hams, dried beef, &c. John Morrell & Company. No. 147,367; Aug. 30; v. 289; p. 1003.

Hammers and wrenches. Henry Cheney Hammer Corporation. No. 141,250; Aug. 30; v. 289; p. 992.

Hoists, dredging, mining, and logging engines, &c., Contractors' steam and gasolene. J. S. Mundy Hoisting Engine Co. No. 148,233; Aug. 30; v. 289; p. 1007.
Ice-cream and candy kisses. Kalashian Bros. No. 143,326; Aug. 30; v. 289; p. 994.
Kraft wrapping-papers. Central Ohio Paper Company. No. 146,754; Aug. 30; v. 289; p. 1001.
Label-holders. "Little Major" Appliances Co., The. No. 145,346; Aug. 30; v. 289; p. 997.
Lacquer for coloring electric-lamp bulbs. Western Electric Company. No. 111,637; Aug. 30; v. 289; p. 985.
Lamps, Acetylene-. Universal Lamp Co. No. 150,380; Aug. 30; v. 289; p. 1011.
Lard. T. L. Boyd. No. 133,567; Aug. 30; v .289; p. 988.
Lard substitutes. H. R. Ellah. No. 144,609; Aug. 30; v. 289; p. 995.
Laundry-washing machines. Voss Brothers Manufacturing Co. No. 138,030; Aug. 30; v. 289; p. 990.
Lawn-sprinklers. Rainbow Lawn Sprinkler Company. No. 148,087; Aug. 30; v. 289; p. 1006.
Lenses, Non-breakable lamp-. Insel Company. No. 143,170; Aug. 30; v. 289; p. 993.
Liniment. A. Szabo. No. 145,656; Aug. 30; v. 289; p. 998.
Liquids, Cleaning and polishing. Lincoln Chemical Company. No. 147,671; Aug. 30; v. 289; p. 1004.
Lock-nuts. Patterson Lock Nut Mfg. Co. No. 148,618; Aug. 30; v. 289; p. 1008.
Lubricant or lotion for rendering the cuticle soft and pliable, &c. Lustrite Corporation, The. No. 146,920; Aug. 30; v. 289; p. 1001.
Lye. Stoneward Corporation. No. 132,760; Aug. 30; v. 289; p. 987.
Magnesia, light calcined magnesia, &c. P. Cary Manufacturing Company. No. 145,317; Aug. 30; v. 289; p. 997.
Malt-syrup. J. B. Tuor. No. 145,176; Aug. 30; v. 289; p. 996.
Manicuring preparations, powders, &c., Containers for. A. Moeller. No. 114,065; Aug. 30; v. 289; p. 985.
Medical preparation. Hanson Manufacturing Company. No. 147,196; Aug. 30; v. 289; p. 1002.
Medicine, Emollient antiseptic. Eucatol Co. No. 143,550; Aug. 30; v. 289; p. 994.
Medicine for cholera and roup. H. C. Ford. No. 133,658; Aug. 30; v. 289; p. 988.
Medicine for cows. Germicide Company. No. 147,778; Aug. 30; v. 289; p. 1005.
Medicine for the treatment of diseases of the blood, nerves, &c., and a hair-cream. J. B. Khan. No. 147,669; Aug. 30; v. 289; p. 1004.
Medicine, Tonic, &c. G. Prunier & Cie. No. 147,983; Aug. 30; v. 289; p. 1006.
Menthol cough-drops. W. H. Luden. No. 147,967; Aug. 30; v. 289; p. 1006.
Metal molds. Eppelsheimer & Co. No. 146,959; Aug. 30; v. 289; p. 1001.
Metal-rods, bars, stirrups, &c., for reinforcing concrete. Corrugated Bar Company. No. 148,648; Aug. 30; v. 289; p. 1008.
Milk, Condensed. Chas. T. Stork and Co. No. 117,544; Aug. 30; v. 289; p. 985.
Milk, Evaporated. Tri-State Milk Products Co. No. 148,629; Aug. 30; v. 289; p. 1008.
Milk, Unsweetened, evaporated. American Milk Products Company. Nos. 148,361–2; Aug. 30; v. 289; p. 1007.
Mineral waters. J. Hall. No. 148,654; Aug. 30; v. 289; p. 1008.
Minnow-nets. W. H. Reisner Manufacturing Company. No. 145,970; Aug. 30; v. 289; p. 999.
Nails, Clenching-. Geo. Baker & Sons. No. 148,052; Aug. 30; v. 289; p. 1006.
Oil, Olive-. J. Rocha Bros. No. 147,994; Aug. 30; v. 289; p. 1006.
Oil, Polishing-. Texas Company. No. 149,984; Aug. 30; v. 289; p. 1010.
Ointment for eczema, boils, &c. Hudson & Company. No. 146,631; Aug. 30; v. 289; p. 1000.
Ornamental electrical fixture parts of stamped brass and copper. Alfred Vester Sons', Inc. No. 147,589; Aug. 30; v. 289; p. 1004.
Packing, Braided asbestos lubricated yarn. Stewart R. Brown Mfg. Co. Inc. No. 150,434; Aug. 30; v. 289; p. 1011.
Paint, Corrosion, acid, and gas proof. Kingsbury Corporation. No. 148,079; Aug. 30; v. 289; p. 1006.
Paints, Cold-water. Sherwin-Williams Company. No. 147,469; Aug. 30; v. 289; p. 1004.
Paints, Enamel. Remien & Kuhnert Co. No. 144,639; Aug. 30; v. 289; p. 995.
Paints, finishes, enamels, japans, varnishes, &c. Sherwin-Williams Company. No. 147,136; Aug. 30; v. 289; p. 1001.
Paints, Ready-mixed. Phoenix Paint & Varnish Company. No. 149,026; Aug. 30; v. 289; p. 1009.
Paper, cards, and envelops therefor, Correspondence-. Jordan Marsh Company. No. 146,712; Aug. 23; v. 289; p. 1000.
Paper, Cover-. Chemical Paper Manufacturing Co. No. 142,386; Aug. 30; v. 289; p. 993.
Paper, paper towels and napkins, Wrapping and toilet. Continental Paper & Bag Mills. No. 140,990; Aug. 30; v. 289; p. 992.
Paper, Printing and writing bond-. Alling and Cory Company. No. 147,179; Aug. 30; v. 289; p. 1002.
Paper, Printing and writing bond-. Alling and Cory Company. No. 147,181; Aug. 30; v. 289; p. 1002.
Paper, Wrapping-. B. A. Nienhauser. No. 147,676; Aug. 30; v. 289; p. 1005.
Paper, Writing-. Marcus Ward, Inc. No. 134,399; Aug. 30; v. 289; p. 988.
Papers, Cover and textile book-. The Central Ohio Paper Company. No. 146,752; Aug. 30; v. 289; p. 1000.
Papers, Enamel cover and book. Central Ohio Paper Company, The. No. 146,753; Aug. 30; v. 289; p. 1000.
Paprika, Spanish. V. Rodrigues. Nos. 145,231–5; Aug. 30; v. 289; p. 996.
Petrolatums, mineral jellies and oils. Sherwood Petroleum Co., Inc. No. 145,657; Aug. 30; v. 289; p. 998.
Pile remedy. W-K-M Co. No. 147,804; Aug. 30; v. 289; p. 1005.
Pneumatic tools—namely, riveting-hammers. Chicago Pneumatic Tool Company. No. 146,295; Aug. 30; v. 289; p. 999.
Potatoes, Fresh. Norfolk Truckers Exchange. No. 142,716; Aug. 30; v. 289; p. 993.
Preparation for removing old varnish, wax, dirt, grease, &c. C. A. Walter. No. 147,855; Aug. 30; v. 289; p. 1006.
Preparation for treatment of heaves. C. B. Baker. No. 148,367; Aug. 30; v. 289; p. 1007.
Preparation for use in treatment of rheumatism, gout, lumbago. F. J. Volkmar. No. 147,695; Aug. 30; v. 289; p. 1005.
Preparation used in sterilizing infected dentine. Kings Specialty Co. No. 147,828; Aug. 30; v. 289; p. 1005.
Preparations used in the treatment of chlorosis, anemia, skin diseases, &c. Winthrop Chemical Company. No. 120,298; Aug. 30; v. 289; p. 985.
Presses, &c. E. W. Bliss Company. No. 145,547; Aug. 30; v. 289; p. 997.
Presses and drop-lifters, Drop-. Birmingham Iron Foundry. No. 144,376; Aug. 30; v. 289; p. 995.
Preventive for venereal diseases. M. Twersky. No. 147,588; Aug. 30; v. 289; p. 1004.
Pumps and parts thereof. Geo. D. Roper Corporation. No. 146,496; Aug. 30; v. 289; p. 1000.
Putty. Liberty Paint Co. No. 148,542; Aug. 30; v. 289; p. 1008.
Putties, Bituminous. Standard Asphalt & Refining Company. No. 131,988; Aug. 30; v. 289; p. 987.
Puzzles. W. L. Ferris. No. 137,169; Aug. 30; v. 289; p. 989.
Remedy for aching limbs, summer complaint, &c. S. P. Hite Company. No. 147,290; Aug. 30; v. 289; p. 1003.
Remedy for piles. R. N. Jones. No. 137,261; Aug. 30; v. 289; p. 989.
Remedy for the scalp and hair, &c. P. R. Jones. No. 128,604; Aug. 30; v. 289; p. 986.
Remedy, Headache and neuralgia. H. M. Griffin. No. 140,494; Aug. 30; v. 289; p. 991.
Ribbon in the piece. Weber & Lefton. No. 145,484; Aug. 30; v. 289; p. 997.
Rubber belting and hose. New Jersey Car Spring & Rubber Co. No. 136,951; Aug. 30; v. 289; p. 989.
Rubber patches. Eagle Tire Patch Co. No. 138,161; Aug. 30; v. 289; p. 990.
Rubber tires and tubes. Du Bois Rubber & Tube Company. Nos. 148,979–80; Aug. 30; v. 289; p. 1009.
Sedative for relieving spasms and colic. Chemische Fabrik vormals Sandoz. Nos. 145,253–4; Aug. 30; v. 289; p. 997.
Shampoo and tonic for the hair. F. Wechsler. No. 141,737; Aug. 30; v. 289; p. 993.
Silk piece goods. H. R. Mallinson & Co. No. 146,836; Aug. 30; v. 289; p. 1001.
Silver-plated hollow ware and tableware. Middletown Silver Company. No. 145,956; Aug. 30; v. 289; p. 999.
Sink-flushers. W. G. Donald. No. 147,098; Aug. 30; v. 289; p. 1001.
Skates, Ice and roller. Winchester Repeating Arms Co. No. 148,253; Aug. 30; v. 289; p. 1007.
Skylights. A. Kuhnla, Inc. No. 148,495; Aug. 30; v. 289; p. 1008.
Spaghetti, macaroni, &c. Gandolfo-Ghio Mfg. Co. No. 137,377; Aug. 30; v. 289; p. 989.
Stock-certificate and bond blanks, stock-certificate books, record-books, &c., Engraved, lightographed or printed. A. R. Maul. No. 144,530; Aug. 30; v. 289; p. 995.
Stoves and ranges. John Dunn Son & Co. No. 140,875; Aug. 30; v. 289; p. 992.
Stoves, Coal and wood. Estate Stove Company. No. 144,314; Aug. 30; v. 289; p. 995.
Stoves, Gas and coal. Wincroft Stove Works. No. 147,223; Aug. 30; v. 289; p. 1002.
Tablets for treatment of headaches, neuralgia, colds, &c. T. A. Buxton. No. 145,764; Aug. 30; v. 289; p. 998.
Tablets, Pepsin. Orium Company. No. 131,348; Aug. 30; v. 289; p. 987.
Targets and traps. Western Cartridge Company. Nos. 149,207–8; Aug. 30; v. 289; pp. 1009–10.
Taxidermists, Composition of matter for the use of. J. A. Riner. No. 146,035; Aug. 30; v. 289; p. 999.
Tea and coffee. Chase & Sanborn. No. 148,373; Aug. 30; v. 289; p. 1008.
Tents and tent-sheds. Des Moines Tent & Awning Company. No. 145,999; Aug. 30; v. 289; p. 999.

Tires and inner tubes. Goodyear Rubber Company. No. 134,562; Aug. 30; v. 289; p. 989.
Tongues, sausages, souse, luncheon-meat, &c. John Morrell & Company. No. 148,157; Aug. 30; v. 289; p. 1007.
Tonic for blood disorders, liver complaints, &c. Britt Manufacturing Company. No. 146,409; Aug. 30; v. 289; p. 999.
Tonic for the bowels. R. Berry Co. No. 147,656; Aug. 30; v. 289; p. 1004.
Tonic, Nerve and body. F. M. Welch. No. 145,807; Aug. 30; v. 289; p. 998.
Tooth paste and powder, mouth-wash, gas, and extracting fluids. H. N. Shor. No. 143,788; Aug. 30; v. 289; p. 994.
Toy vehicles. A. Mecky Company. No. 144,630; Aug. 30; v. 289; p. 995.
Toy wooden horses mounted on wheels. Toytown Manufacturing Company. No. 140,621; Aug. 30; v. 289; p 991.
Toys. Irokese Trading Corporation. Nos. 139,975–7; Aug. 30; v. 289; p. 991.
Traffic-signals for vehicles. V. Oliver, Inc. No. 144,871; Aug. 30; v. 289; p 996.
Vanilla extract for food-flavoring. K. Reinhart. No. 130,116; Aug. 30; v 289; p. 987.
Vanilla extract, Imitation-. Horine & Bowey Company. No. 140,326; Aug 30; v. 289; p. 991.
Vaporizing chemicals to be used in treatment of pulmonary diseases. Charles Alfred Waldeck Company. No. 138,152; Aug. 30; v. 289; p 990.
Varnish. Empire Varnish Company. No. 137,769; Aug. 30; v. 289; p. 990.
Varnish. McDougall-Butler Co. No. 149,410; Aug. 30; v. 289; p. 1010.
Varnish. McDougall-Butler Co. No. 149,411; Aug. 30; v. 289; p. 1010.
Varnishes. S. V. De Foreest. No. 147,712; Aug. 30; v. 289; p. 1005.
Varnishes. Egan and Hausman Company. No. 148,263; Aug. 30; v. 289; p. 1007.
Vehicle-wheels, Combination lifter and stand for. L. C. Beadle. No. 147,549; Aug. 30; v. 289; p. 1004.
Vehicles, Traffic-signals for motor-. J. D. Coward. No. 147,155; Aug. 30; v. 289; p. 1002.
Veiling by the piece. Edw. Malley Co. No. 148,021; Aug. 30; v. 289; p. 1006.
Warming-closets, steam-tables, &c. Morandi-Proctor Company. No. 144,733; Aug. 30; v. 289; p. 995.
Watches, watch cases, and movements. S. Gutter. No. 139,529; Aug. 30; v. 289; p. 990.
Water, non-alcoholic beverages, and syrups for making same, Distilled. H-2-O Still Company. No. 141,107; Aug. 30; v. 289; p. 992.
Whist score-card. M. Moir. No. 146,449; Aug. 30; v. 289; p. 1000.
Wood-polish. Puritan Drug Mfg. Co. No. 146,653; Aug. 30; v. 289; p. 1000.
Woolen goods in the piece. J. A. Doyle. No. 150,063; Aug. 30; v. 289; p. 1010.
Yarns. Smolin-Hartman & Co. No. 147,946; Aug. 30; v. 289; p. 1006.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 30, 1921.

NOTE.—First number—class, second number—subclass, third number—patent number.

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[Decisions of the United States Circuit Court of Appeals are indicated by the letter (4).]

ERRATA.

1,391,540, page 554, in heading, assignment, for name of assignee, "John E. Garey," read *John P. Garey.*
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Patents	691—No. 1,389,570 to No.	1,390,260, inclusive.
Designs	122—No. 58,853 to No.	58,974, inclusive.
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Total	1315	

Changes in Classification.

(ORDER No. 2,691.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, September 6, 1921.

The following change in the classification of inventions is hereby directed, to take effect immediately:

In class 150, Cloth, Leather, and Rubber Receptacles, (Division XL,) establish the following subclass and definition:

Bags—
1.5. Golf-bag type.

1.5. BAGS, GOLF-BAG TYPE. Bags for golf-clubs, bats, and similar articles.

Search Class—
46.—GAMES AND TOYS, subclass 4, Balls and bats, for golf-clubs and other accessories for playing golf.

The patents contained in this subclass have been taken for the most part from class 224, Package and Article Carriers, subclass 45, Hand.

THOMAS E. ROBERTSON,
Commissioner.

Changes in Classification.

(ORDER No. 2,692.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, September 6, 1921.

The following changes in the classification of inventions are hereby directed, to take effect immediately:

In class 218, Button, Eyelet, and Rivet Setting, (Division XI,) establish the following subclasses and definitions:

Machines—
Eyeleting—
14.1. Blind or invisible,
Magazine—
15.2. Duplex,
Lacing-hook—
Magazine—
17.11. Washer-strip type,
17.12. Duplex.
29. Methods.

14.1. MACHINES, EYELETING, BLIND OR INVISIBLE. Machines for setting blind or invisible eyelets.

15.2. MACHINES, EYELETING, MAGAZINE, DUPLEX. Eyeleting-machines of the magazine type which simultaneously set eyelets on opposite sides of an intermediate anvil-plate.

17.11. MACHINES, LACING-HOOK, MAGAZINE, WASHER-STRIP TYPE. Lacing-hook-setting machines of the magazine type which are provided with means for forming a washer from a strip through which the lacing-stud is set.

17.12. MACHINES, LACING-HOOK, MAGAZINE, DUPLEX. Lacing-hook-setting machines of the magazine type which simultaneously set lacing-studs on opposite sides of an intermediate anvil-plate.

29. METHODS. Various processes used in attaching fasteners of the type adapted to be used in the machines found in this class.

The patents contained in these subclasses have been taken for the most part from class 218, Button, Eyelet, and Rivet Setting, subclasses 14, Machines, Eyeleting; 15, Machines, Eyeleting, Magazine, and 17, Machines, Lacing-hook, Magazine.

In class 218, Button, Eyelet, and Rivet Setting, (Division XI,) subclass 15, Machines, Eyeleting, Magazine, add to the definition before the existing search note the following:

Search this class, subclass 14.1.

THOMAS E. ROBERTSON,
Commissioner.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

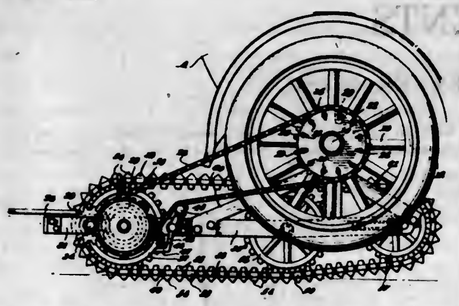
In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Mark section will include: Trade-Marks published under the act of 1905; Trade-Marks registered under the act of 1905 and under the act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

4703

1,389,576. TRACTOR ATTACHMENT FOR AUTOMOBILES. JOHN D. CALDWELL, Forsyth, Mont. Filed June 25, 1919. Serial No. 306,536. 10 Claims. (Cl. 180—9.1.)



1. In a tractor attachment for automobiles, the combination with the rear drive wheels of an automobile, of a supporting structure, means on said supporting structure for adjustably supporting said rear wheels in an elevated position, a pair of endless tracks, means connecting said endless tracks to said wheels for driving the tracks from the wheels, and speed change gears in said driving connecting means.

1,389,577. CHEESE AND PROCESS FOR STERILIZING THE SAME. LINN EUGENE CARPENTER, East Orange, N. J., and ELMER ELLSWORTH ELDREDGE, New Berlin, N. Y., assignors to Phenix Cheese Company, New York, N. Y., a Corporation of New York. Filed June 21, 1915, Serial No. 35,477. Renewed Mar. 14, 1918. Serial No. 222,514. 9 Claims. (Cl. 99—1.)

1. The method herein described, of treating cheese, which consists in grinding the cheese, adding to it a small proportion of an alkaline citrate, heating the mass to a temperature high enough to destroy undesirable bacteria contained in the cheese but not sufficiently high to disintegrate the cheese, and maintaining the temperature until the cheese is sterilized.

4. The cheese mass herein described, containing sterilized cheese and sodium citrate.

6. As an article of manufacture, a cheese of the Camembert genus, sterilized sufficiently to enable it to keep indefinitely under ordinary climatic temperatures, said cheese having a homogeneous texture.

8. The method herein described of treating a cheese mass containing a preponderance of cheese of the Camembert type, which consists in heating the cheese mass to a temperature of about 170 degrees Fahrenheit and thus melting it, stirring the cheese mass for about thirty minutes while maintaining it at said temperature, and pouring the cheese mass into containers.

1,389,578. AUGER. ROBERT W. CHARLTON, Pineville, La., assignor of one-half to Harry Mairus, Rapides parish, La. Filed Oct. 18, 1920. Serial No. 417,544. 2 Claims. (Cl. 145—126.)



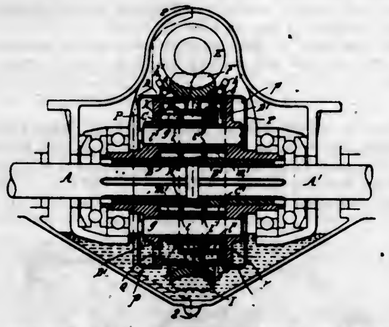
2. An auger comprising a shank provided with a spiral conveyer screw winding thereabout and terminating at one end of said shank at one side thereof, said shank and conveyer screw having a socket formed in their coterminus ends which extends radially with respect thereto, and a cutterhead having a rib fitting snugly in said socket and coöperating with the walls thereof to prevent movement of said cutter-head in any direction transverse to the axis of said shank, said cutter-head having a portion forming a continuation, and the cutting lip, of said conveyer screw and a screw point in axial alinement with said shank.

1,389,579. SHADE-ROLLER. ISHMAEL G. CUTRIGHT and JOHN A. SHARPS, Buckhannon, W. Va., assignors to The Cutright Sharps Company, Inc., Buckhannon, W. Va. Filed Sept. 22, 1919. Serial No. 325,397. 8 Claims. (Cl. 156—29.)



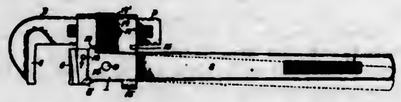
7. A metal roller having a slot in a side thereof and having the edge portions defining the walls of the slot recurved and an end piece provided with an extension to enter the roller and cutaway to clear the recurved edge portions of the roller and engage therewith.

1,389,580. DIFFERENTIAL GEAR. FRANCIS W. DAVIS, Buffalo, N. Y. Filed Jan. 25, 1918. Serial No. 213,629. 14 Claims. (Cl. 74—99.)



1. The combination with driven members, and differential gear wheels connecting said members for producing differential motion thereof, of parts coöperating with said gear wheels to form a plurality of complete gear pumps actuated by the differential motion of said members to propel a liquid, whereby the resistance to said differential motion increases with an increase in said differential motion, all of said pumps operating to thus resist said differential motion in both directions of rotation of said driven members.

1,389,581. WRENCH. CHARLES A. DIBB, Chicago, Ill., assignor to John V. Larson, Chicago, Ill. Filed Mar. 27, 1919, Serial No. 285,600. Renewed Feb. 8, 1921. Serial No. 443,491. 2 Claims. (Cl. 81—105.)



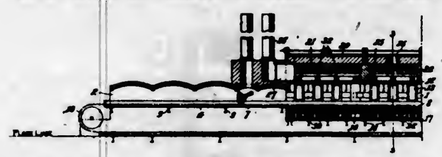
2. A plate metal housing for adjustable tools comprising, an initially flat metal plate or blank formed with a central elongated rectangular aperture, the lower edge of which is formed with two recesses which form abutment cavities for a spring in the finished housing, with a pair of journal orifices, and with a pair of rectangular extensions at two corners, said plate or blank being bent into a rectangular shell or housing with the various pairs of orifices and recesses in transverse alinement and with the pair of corner extensions in transverse abutting association to constitute short coacting stop lugs for an operating handle.

1,389,582. SAFETY-HOOK. GEORGE T. FLEMING, La Grande, Oreg. Filed Nov. 8, 1920. Serial No. 422,439. 9 Claims. (Cl. 24—241.)



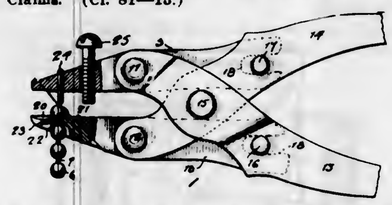
1. A fastener comprising a guard, a hook pivoted thereto and movable across the guard, said guard and hook being constantly disposed relatively in planes at right angles to each other.

1,389,583. DECORATING OR ANNEALING OVEN. CHAUNCEY E. FRAZIER, Washington, Pa. Filed Mar. 26, 1921. Serial No. 455,719. 6 Claims. (Cl. 25—144.)



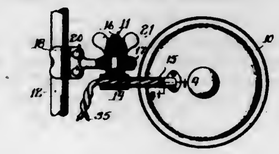
1. In a muffle oven, a furnace comprising a primary combustion chamber and secondary chambers located at opposite ends of said primary chamber, means separating said chambers, a muffle extending through said furnace beneath said chambers and comprising a floor, side-walls and a roof, vertical flues formed between the side-walls of said muffle and those of the furnace, and flues extending longitudinally beneath said floor and having communication with said vertical flues, said communicating flues constituting passages around the muffle for conducting products of combustion to said secondary chambers.

1,389,584. SPLICING-TOOL. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Apr. 12, 1919. Serial No. 289,665. 2 Claims. (Cl. 81—15.)



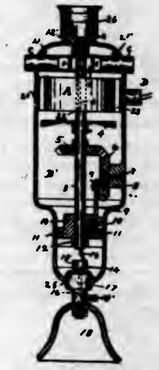
1. A splicing tool for bead chains, comprising a pair of jaws, one of which is slotted in the direction of its length to receive the shank of a dumb-bell chain link and recessed at the inner end of said slot to afford a seat for the chain ball engaging said link, said jaw having its ball supporting face grooved on opposite sides of the slot to accommodate the ball, and being channeled on its opposite face to accommodate an adjacent ball, the two grooves being spaced apart by a thin web of less thickness than the link between the adjacent balls, the entrance to said groove being flared to form a guide for the entering link, in combination with a spreader carried by the other jaw in register with said seat and adapted to operate on the ball seated in said recess in the first mentioned jaw.

1,389,585. EXTENSION-LAMP MOUNTING FOR VEHICLES. BERTRAM J. GRIGSBY, Chicago, Ill., assignor to Anderson Electric & Equipment Co., Chicago, Ill., a Corporation of Illinois. Filed Oct. 31, 1917. Serial No. 199,478. 2 Claims. (Cl. 240—7.)



1. As a new article of manufacture, a combined spot and trouble lamp, comprising a lamp casing, a universal lamp-supporting bracket and a conductor cord take-up device; the bracket comprising a hollow arm adjustably connected to the lamp casing and a rigid arm having a swivel connection with the hollow arm at one end thereof and at the other end provided with means to attach the lamp to a wind shield frame; a lamp cord normally coiled within the take-up device and extending through the hollow arm into the lamp casing; said take-up device having attaching means at one side thereof, to independently attach it to a part of the vehicle, and terminals to electrically connect the inner ends of the lamp cord.

1,389,586. VIBRATOR. EDGAR O. HATTEN, Evanston, Wyo. Filed July 18, 1919. Serial No. 311,901. 3 Claims. (Cl. 128—49.)

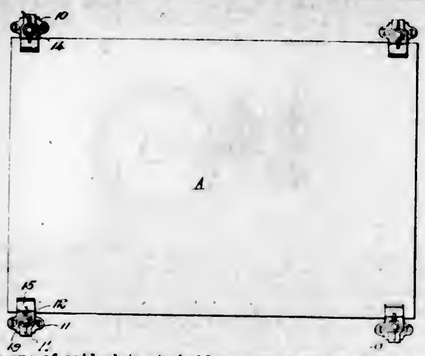


1. A vibrator of the character described in combination with a casing, a motor mounted within said casing, means for operating said motor, a driving shaft secured to said motor, said driving shaft being journaled within said casing, a gear secured to said driving shaft for driving another gear, the other gear, said other gear being secured to the side of said casing, a pitman rod attached to said other gear and to a sliding sleeve, the sliding sleeve, said sliding sleeve mounted on said driving shaft, the valves within said sliding sleeve for preventing the return of air through the holes within said sliding sleeve when said sliding sleeve is moved upward by said pitman rod, a spring on the lower end of said driving shaft for connecting said driving shaft with a driven shaft, the driven shaft and a cup secured to said driven shaft.

1,389,587. CLAMP. BERT E. HILBORN, Spokane, Wash. Filed Nov. 9, 1920. Serial No. 422,925. 4 Claims. (Cl. 40—125.)

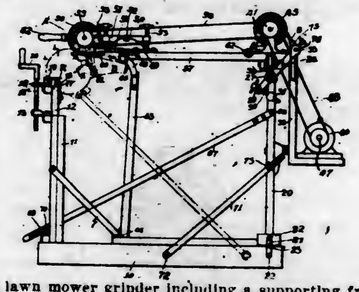
1. A device of the character described comprising a base plate adapted to be permanently secured to a sup-

port, a clamp plate, means to force said plates together to clamp a portion of an article therebetween, and means



on one of said plates to hold the article clamped between the plates in flat contact with the surface of said support.

1,389,588. GRINDER. ANDREW KLAY, Lima, Ohio. Filed Oct. 17, 1919. Serial No. 331,374. 7 Claims. (Cl. 51—36.)



1. A lawn mower grinder including a supporting frame, means for adjustably securing a lawn mower relative to the supporting frame, a rocking frame, a carriage supported for movement upon the rocking frame, grinding means supported by the carriage, and means supported by the carriage for securing the grinding means in operable relation to the reel blades of the lawn mower.

1,389,589. TOY. SIGMUND F. KOHN, New York, N. Y. Filed Jan. 11, 1919. Serial No. 270,619. 6 Claims. (Cl. 46—46.)



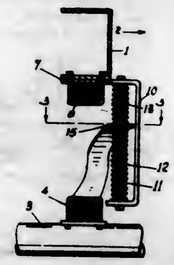
1. In a toy, the combination of a tube having outlets and formed as a ring at one end and whose other end is a radial extension of the ring portion, and a mouth piece and inlet in the extension.

1,389,590. TIRE-CHAIN-CONNECTING DEVICE. WILLIAM LUMATAINEN, Albion, Pa. Filed Apr. 26, 1921. Serial No. 464,491. 8 Claims. (Cl. 24—69.)



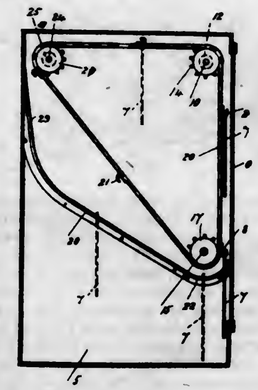
3. In a tire chain connecting device, the combination of a connector, a guard carried by the connector, a keeper pivotally mounted on the connector and a laterally projecting post for a link of the free end of the chain carried by the keeper and adapted to be moved between the connector and guard to a position beyond the pivotal center of the keeper when closed, means for limiting the closing movement of the keeper, and means for releasably locking the keeper in closed position.

1,389,591. SHOCK-ABSORBER. MICHAEL J. MAGIN and WILLIAM G. BIEK, Dowagiac, Mich. Filed Mar. 21, 1921. Serial No. 453,919. 4 Claims. (Cl. 267—28.)



1. In a structure of the class described, the combination with an axle and a spring supported body member, of a body carrying spring comprising a semi-elliptic spring member mounted on said axle, a hanger member on said body member having a vertical spring supporting rod thereon, a U-shaped spring member having one arm mounted on said spring member carried by the axle and the other slidably engaged with said rod on said hanger, and coiled springs arranged on said rod on each side of the spring member arm engaged therewith.

1,389,592. CARD-EXHIBITOR. MARION MATHER, Olean, N. Y. Filed Nov. 6, 1920. Serial No. 422,253. 1 Claim. (Cl. 40—78.)



In a card exhibitor, a casing, driving wheels journaled in the casing, front and rear guide wheels journaled in

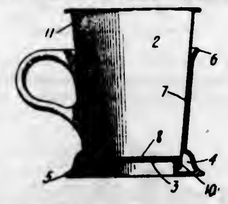
the casing above the level of the driving wheels, endless flexible connections passing over the said wheels, curved rest bars arranged under and substantially concentric with the said driving wheels, inclined guide bars extending upwardly from the rear ends of the rest bars to points beyond the rear guide wheels, display cards having lugs adapted to slide on the said guide bars and rest bars, and hooks carried by the said flexible connections and operating to engage with the lugs on the display cards when supported by the rest bars and to drop the cards as they pass over the rear guide wheels so that they fall onto the said guide bars and slide down them onto the rest bars.

1,389,593. AIR-CUSHION NOZZLE. GEORGE A. MILLAR, Ensley, Ala. Filed Mar. 5, 1920. Serial No. 363,483. 1 Claim. (Cl. 299—140.)



A nozzle having an outstanding annular flange slightly in rear of the tip thereof, and a cylindrical rim carried by said flange surrounding and projecting beyond said tip, said flange having air inlet opening substantially parallel with said rim.

1,389,594. PAPER-CUP HOLDER. HUGH MOORE, Leonia, N. J., assignor to Individual Drinking Cup Company, Inc., a Corporation of New York. Filed Sept. 15, 1917. Serial No. 191,572. 10 Claims. (Cl. 65—61.)



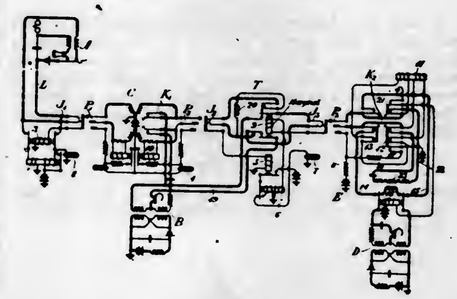
1. A holder for paper cups having a base and side walls, said base having an interiorly formed annular depression providing a raised support for the bottom of a paper cup, whereby the bottom of the cup will not be subject to distortion by the contact of a spoon or a like utensil therewith.

1,389,595. WARDROBE-TRUNK. ROBERT E. PHILLIPS, Portland, Oreg. Filed Dec. 29, 1920. Serial No. 433,880. 6 Claims. (Cl. 190—13.)



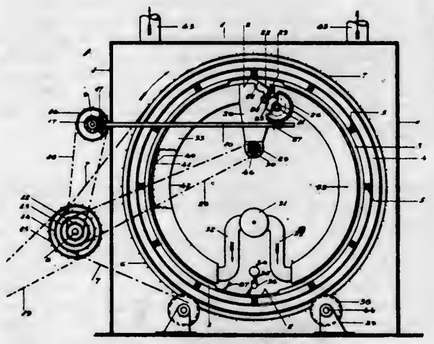
1. In a wardrobe trunk having a clothes compartment, a follower board of substantially the full width of the clothes compartment of the trunk, whose inner face is padded to serve as an ironing board, the covering for the said face being projected along the opposite sides and bottom whereby to produce valance portions adapted to lap back when the board is inserted against the clothes, to provide a dust-proof fit of the said board.

1,389,596. DESK OPERATOR'S CIRCUITS. WILLIAM A. RHODES, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 5, 1918. Serial No. 265,436. 5 Claims. (Cl. 179—50.)



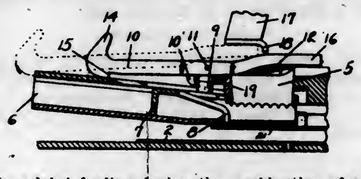
1. In a telephone system, a subscriber's line, an A operator's position, a trunk leading from the A operator's position to a special operator's position, a link circuit at the A operator's position for switching said line into connection with other lines or with said trunk, means whereby the special operator's set may be associated with said trunk over a low impedance path in response to a connection established therewith ,and means whereby when said line is connected to said trunk the special operator may establish a high impedance connection between her set and A operator's set over said trunk and independent of said link circuit.

1,389,597. DESICCATING APPARATUS. ARTHUR D. ROBINSON, St. Louis, Mo. Filed June 26, 1919. Serial No. 306,983. 6 Claims. (Cl. 127—9.)



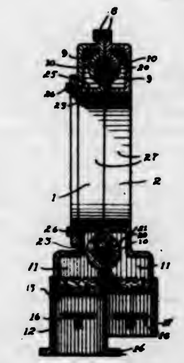
1. A desiccating apparatus for eggs and the like comprising a casing, an open ended drum rotatably mounted in said casing and having an interior lining formed of pieces of slate joined so as to present an imperforate smooth interior surface, means whereby the material to be dried is supplied in a batter condition to said imperforated surface, a scraper for removing the material when dried from said imperforate surface, pipes for supplying hot air for drying said material, and means whereby said drum is caused to rotate.

1,389,598. LABEL-FEEDING MEANS FOR AUTOMATIC LABEL AND PATCH STITCHING MACHINES. MORRIS G. ROSENTHAL, Cincinnati, Ohio. Filed Sept. 15, 1920. Serial No. 410,447. 5 Claims. (Cl. 112—104.)



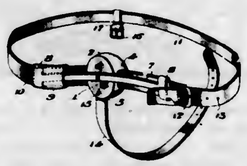
5. In a label feeding device, the combination of a work shoe and a label holding shoe, of a label feed slide, a follower adapted to reciprocate in said slide, a latch on said follower to hold the same in withdrawn position to receive a label, a spring to move said follower to feed the label, and means for releasing the said latch automatically when the work shoe is lowered, as specified.

1,389,599. VULCANIZER. ARTHUR J. SAVAGE, San Diego, Calif. Filed Sept. 10, 1919. Serial No. 322,904. 14 Claims. (Cl. 18—38.)



1. A tire vulcanizer including complemental sections, one of which is bodily movable toward and away from the other section, said sections having tire-receiving grooves in the meeting faces thereof, and each of said sections being hollow to provide a steam chamber and being provided with a water chamber at the bottom thereof, means for heating the water chambers, and means for holding the complemental sections together.

1,389,600. TRUSS. HENRY F. SCHOENFIELD, Roseburg, Oreg. Filed Nov. 17, 1920. Serial No. 424,623. 2 Claims. (Cl. 128—111.)



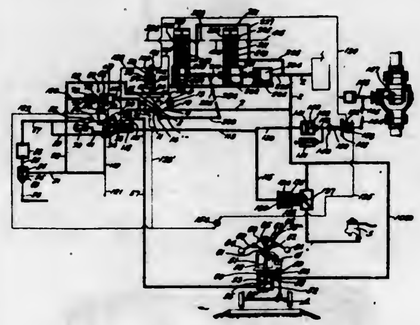
1. The combination in a truss, of a pad, a plate spring secured to the pad and having its ends extended at opposite sides of the pad, an elastic belt loosely secured to the pad and the ends of the spring so the belt can slide relative to the pad and spring, said belt at its free ends being provided with means for adjustably connecting said ends, and a holding strap secured at one end to the pad and the other end to the belt.

1,389,601. DISK WHEEL. FRED C. SCHOENTHAL, Buffalo, N. Y. Filed Mar. 23, 1920. Serial No. 368,094. 6 Claims. (Cl. 301—63.)



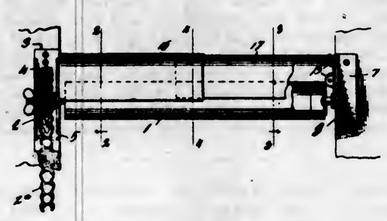
6. In a disk wheel, the combination of a hub, a hub flange, a shoulder on said hub, a main disk and an auxiliary disk bearing against said shoulder and said flange adjacent its periphery.

1,389,602. AUTOMATIC TRAIN-CONTROL SYSTEM. DANIEL HERBERT SCHWEYER, Easton, Pa. Filed Sept. 6, 1916. Serial No. 118,731. 6 Claims. (Cl. 246—182.)



1. In a train controlling apparatus, the combination of a brake pipe, pressure fluid supply means, a mechanism for establishing communication between the brake pipe and atmosphere, track controlled means controlling said mechanism, speed controlled means controlling said mechanism in connection with the second mentioned means to render said mechanism operative above a predetermined speed, and means whereby the brake pipe is recharged from the first mentioned means through said mechanism, said mechanism including a pressure fluid operated equalizing device for shutting off communication between the brake pipe and atmosphere when the pressure in the brake pipe falls below a predetermined amount, and said mechanism including means controlled thereby for controlling the flow of pressure fluid to and from said device in opposition to brake pipe pressure.

1,389,603. SHADE-ROLLER FIXTURE. JOHN A. SHARPS and ISHMAEL G. CUTRIGHT, Buckhannon, W. Va., assignors to The Cutright Sharps Company, Inc., Buckhannon, W. Va. Filed Sept. 4, 1920. Serial No. 408,128. 2 Claims. (Cl. 156—31.)



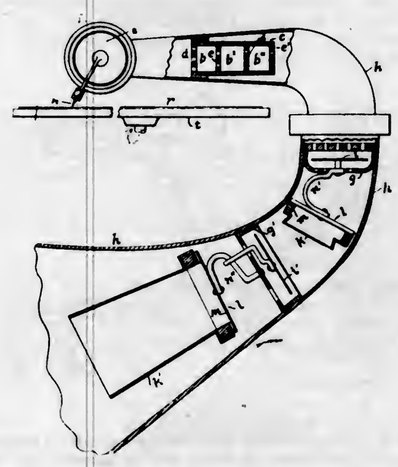
2. A dust shield for shade rollers provided at each of its ends with a reinforcing bar, the latter having inner lateral extensions secured to the shield and having an end portion extending to provide a supporting shank.

1,389,604. COLLAR-HOLDER. CHARLES SILVERMAN, Providence, R. I. Filed Apr. 20, 1921. Serial No. 462,924. 3 Claims. (Cl. 24—87.)



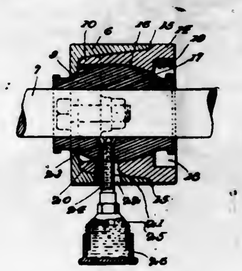
1. In a collar holder, an oblong casing provided with slots in its ends, rods yieldingly mounted in the casing, and prongs on the rods registrable in the slots.

1,389,605. PHONOGRAPH SOUND-REGULATOR. HARRY C. STAGEMAN, Council Bluffs, Iowa. Filed Mar. 15, 1920. Serial No. 365,881. 4 Claims. (Cl. 181—27.)



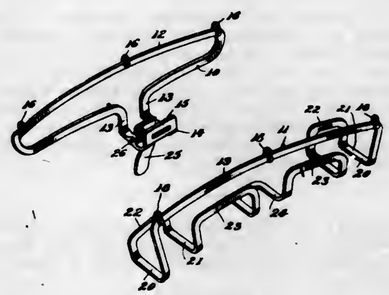
2. The combination with a phonograph horn of a sound modifier comprising a perforated head, a sound diaphragm arranged at one side of the perforated head, an auxiliary horn located at the opposite side of the perforated head and a spring connection between the head and the diaphragm and the auxiliary horn.

1,389,606. BEARING FOR SPREADER-SHAFTS. HENRY SYNCK, Coldwater, Ohio, assignor, by mesne assignments, to The New Idea Spreader Company, Coldwater, Ohio, a Corporation of Ohio. Filed Mar. 9, 1920. Serial No. 364,464. 4 Claims. (Cl. 64—54.)



4. The combination of a supporting arm, a bearing bracket secured rigidly against one side of said arm and having a central tubular member projecting laterally away from the supporting arm, said tubular member having its bore tapered toward the end distant from the supporting arm and the supporting arm being provided with an opening registering with said bore, and a bearing sleeve extending through said bore and said opening and having its intermediate portion enlarged and forming a ball and socket joint with the bore of said tubular member.

1,389,607. ANTISKID DEVICE. IDA J. THOMPSON, Lincoln, Nebr. Filed Oct. 23, 1919. Serial No. 332,704. 5 Claims. (Cl. 152—14.)

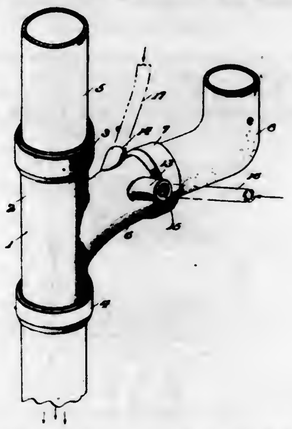


1. In an anti-skid device, the combination, with a vehicle wheel including a felly and tire, of a pair of felly engaging members, tractive elements carried by said felly engaging members, each of said members adapted to engage both sides of a wheel felly, and means for detachably clamping said members together to support the tractive elements in engagement with the tire.

1,389,608. PIPE-FITTING. CHARLES J. TRUEMAN, Baltimore, Md. Filed Nov. 22, 1919. Serial No. 339,884. 1 Claim. (Cl. 285—203.)

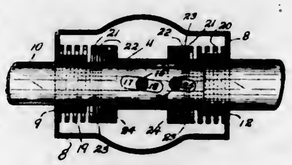
A pipe fitting comprising a T having a relatively long laterally extending arm, the outer portion of which is straight and terminates in a laterally opening bell to receive one end of a lead pipe bend, the arm being pro-

vided at a point inwardly of the said bell end and below the plane of the upper side of the arm with means for



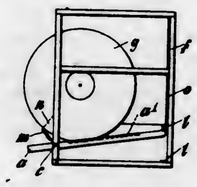
the connection of a branch pipe with the arm to lead at an angle therefrom.

1,389,609. AEROPLANE-PROPELLER. GEORGE F. WEITHER, Dayton, Ohio. Filed Dec. 26, 1919. Serial No. 347,331. 6 Claims. (Cl. 170—162.)



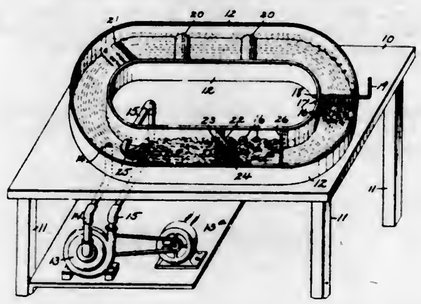
1. A propeller for aeroplanes comprising a central housing, two telescoping tubes projecting outwardly, in opposite directions, from said housing, a blade carried by each tube, each tube being provided with a pair of oppositely inclined slots, and a pin secured within the housing, that projects loosely through each pair of slots, for the purpose of turning said tubes to vary the pitch of the blades which they carry, when moved outwardly by centrifugal force.

1,389,610. PHONOGRAPH-RECORD CABINET. GEOFFREY WATKIN WILLIAMS, Burgess Hill, England. Filed Feb. 8, 1921. Serial No. 443,425. 1 Claim. (Cl. 211—16.)



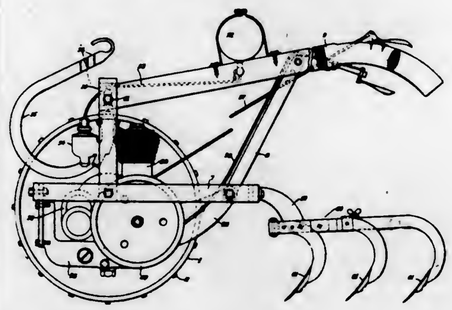
In a phonograph record cabinet the combination of an open sided case, a vertical partition forming within said case a compartment, a pivoted lever constituting the base of said compartment, said lever being connected to the front side of said case by a pivot pin, said pivoted connection being near the forward end of the lever so that the axis of a record supported thereon is always situated behind the pivot of the lever so as to cause the record to automatically roll back into the interior of the cabinet except when downward pressure is applied to the forward end of the lever, the upper face of said lever having formed therein a longitudinal groove for the reception of the edge of the record, a facing of soft material on the inside face of the rear side of the casing, limiting stops secured to said rear side of the casing adapted to be engaged by the rear end of said pivoted lever in its two extreme positions so as to limit the extent of the pivotal movement of the same, and an inclined stop disposed across the open side of the compartment to prevent the records from rolling completely out when their respective pivoted levers are depressed.

1,389,611. GAME APPARATUS. WALTER J. WOOD, Newark, and WILLLIAM G. SAND, Irvington, N. J. Filed May 1, 1920. Serial No. 378,082. 8 Claims. (Cl. 46—56.)



2. A game apparatus comprising an endless trough, an inlet pipe, an outlet pipe, both pipes opening into said trough and disposed so as to cause water in the trough to travel in one direction therein, floats, a stop to define the finish of travel of said floats, and a gate for releasing said floats simultaneously at the start.

1,389,612. POWER AGRICULTURAL IMPLEMENT. GEORGE C. WOODDELL and HARRY C. REESER, Dayton, Ohio. Filed Mar. 22, 1920. Serial No. 367,596. 3 Claims. (Cl. 180—19.)



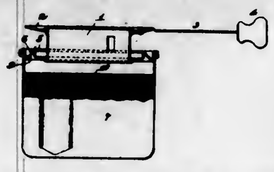
1. In a garden tractor, the combination, with a master wheel, its shaft and planetary gearing mounted on the shaft and connected with the wheel, of a general frame and an engine bed supported on said shaft, an explosive engine carried by the bed and having its shaft geared to the shaft of the master wheel.

1,389,613. METHOD OF AND MACHINE FOR CUTTING HEEL-SEATS. OTIS R. ANGELL, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed Jan. 7, 1918. Serial No. 210,606. 11 Claims. (Cl. 12—17.)



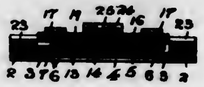
1. The process of preparing heel seats on shoes for the reception of heels consisting in inserting a guard-member between the outer and inner soles and thereafter removing the surplus material at the margin of the outer-sole by a single incision.

1,389,614. BURNER FOR VAPOR-STOVES. HENRY PRICE BALL, Brooklyn, N. Y., assignor to S. Sternau & Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Feb. 20, 1919. Serial No. 278,161. 10 Claims. (Cl. 158—97.)



3. A reversible burner comprising a tube, an outwardly extending peripheral flange at one extremity thereof and adapted to support the tube when the latter is in one position, and outwardly projecting fingers carried by the tube in proximity to the opposite end thereof, said fingers being adapted to support the tube when the latter is in the inverted position.

1,389,615. PHOTOGRAPHIC-PRINTING FRAME. ANTHONY A. BARBER, Newark, N. J., assignor to B. & B. Photo Co., a Corporation of New Jersey. Filed Nov. 14, 1917. Serial No. 201,924. 3 Claims. (Cl. 95—77.)



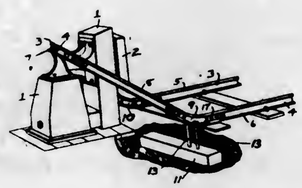
1. A photographic printing frame comprising a frame having an exposing opening, a glass mounted in said opening, and a mask, negative and card-registering means back of said glass adapted to receive and register masks of different sizes whereby the print or picture may be produced with a uniform margin, said registering means consisting of a pair of angularly disposed bars mounted in immovably fixed positions at the back of and adjacent one corner of said glass, combined with a closing cover, said cover being provided upon the back with a pad having cut-away parts in registration with the said angularly disposed registering bars.

1,389,616. TRUCK-FRAME FOR RAILWAY-CARS. HERSCHEL A. BENEDICT, East Orange, and EDWARD M. MOLLER, Jersey City, N. J. Original application filed Feb. 7, 1920, Serial No. 356,888. Divided and this application filed Apr. 9, 1921. Serial No. 460,140. 5 Claims. (Cl. 105—213.)



1. A truck-frame for railway cars, and the like, consisting of a pair of longitudinally extending side-members, carrier-elements connected with the respective end-portions of said side-members, links extending from said carrier-elements, a brake-beam provided with brake-shoes connected with each pair of oppositely located links, a bearing-plate carried by said brake-beam, an actuating member pivotally connected with said bearing-plate, and means connected with said actuating member for actuating the same.

1,389,617. RAILWAY ACCESSORY. HENRY E. BILLMAN, St. Louis, Mo., assignor to Industrial Track Construction Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 17, 1921. Serial No. 437,674. 8 Claims. (Cl. 104—254.)

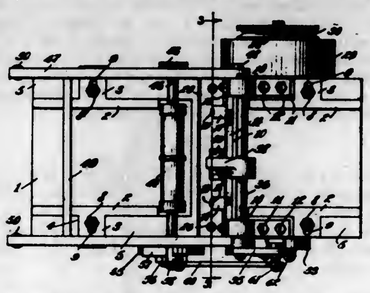


1. In apparatus of the class described, in combination, a bumping device comprising an anchored support; horizontal and inclined rail lengths associated therewith; and means for strengthening said lengths, said means comprising a member fitting the outer side of both lengths, a member similarly fitting the inner side of both lengths, means for securing said members together and to both lengths, and means for anchoring both members.

1,389,618. PERFORATING-MACHINE. GEORGE W. BINGHAM, Cleveland, Ohio, assignor to The International Moving Picture & Film Company, Nashville, Tenn., a Corporation of Tennessee. Filed Oct. 23, 1918. Serial No. 259,363. 3 Claims. (Cl. 164—89.)

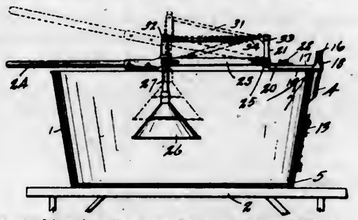
1. In a machine of the character set forth, the combination of a reciprocable punch, feeding means involving a rocker arm and situated in operative relation to the punch, an eccentric, operative connections between the eccentric and punch, a member pivoted to the eccentric, means for locking said member in various angular posi-

tions with respect to the eccentric, a crank pin carried by said member, and a connecting link journaled at one end



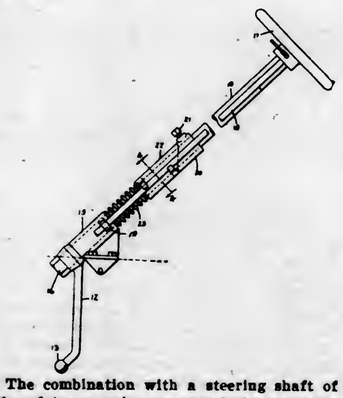
upon the crank pin and pivoted at the other to the aforesaid rocker arm.

1,389,619. LAUNDRY-WASHING MACHINE. GEORGE R. BOOMER, Spokane, Wash., assignor of one-half to Horatio M. Mobbs, Spokane, Wash. Filed Mar. 10, 1919. Serial No. 281,839. 1 Claim. (Cl. 259—113.)



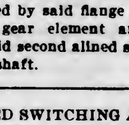
The combination in a washing machine with an attaching device including a stationary support and horizontally swiveled bracket sleeve thereon having an integral arm, of a post formed with an integral slidable arm and means for securing said arms in adjusted position, a slotted lever fulcrumed on the post and an oscillatable sleeve having trunnions journaled in said lever and a pounder retained in the sleeve, a hook at the upper end of the post and a hook on the sleeve adjacent its trunnions and a spring suspended between said hooks.

1,389,620. AUTOMOBILE STEERING CONTROL. DAVID A. BOSWELL, Indianapolis, Ind., assignor, by direct and mesne assignments, of one-half to Jackson H. Kerr and one-half to Harry P. Talbert, Indianapolis, Ind. Filed Mar. 13, 1920. Serial No. 365,463. 5 Claims. (Cl. 280—94.)



1. The combination with a steering shaft of an automobile, of two members mounted thereon with their adjacent faces correspondingly formed to interfit with each other so that one may move relative to the other, one of said members being secured rigidly to the shaft and the other non-rotary but longitudinally slidable thereof, and yielding means for forcing said members toward each other so that the steering shaft may be automatically maintained in a normal position.

1,389,621. NAIL-POLISHER. VIOLA C. BROD, Sandusky, Ohio. Filed Apr. 17, 1919. Serial No. 290,897. 5 Claims. (Cl. 132—73.)



1. In a device of the character described, the combination of a receptacle provided with an opening, said receptacle having a nail polishing material secured to its inner walls adjacent such opening.

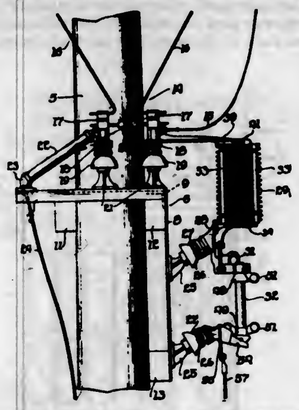
1,389,622. POWER-TRANSMISSION GEAR. LOUIS G. E. BUEHLER, Chicago, Ill. Filed Jan. 29, 1920. Serial No. 354,782. 4 Claims. (Cl. 74—34.)

1. In a speed reducing gear, a casing, alined bearings in the casing, power transmission shafts in the bearings, a third shaft arranged at an angle to said first shafts, a bevel pinion on the third shaft, a bevel gear meshing with the pinion and fixed on the inner end of one of the alined shafts for rotating same, a flange fixed on the other of said alined shafts, a gear element rigid with the casing, a pinion concentric with and fixed to the bevel gear, and planetary gears carried by said flange and operably interposed between said gear element and said concentric pinion for rotating said second alined shaft at a less speed than the first alined shaft.

1,389,623. COMBINED SWITCHING AND PROTECTIVE UNIT FOR ELECTRICAL TRANSMISSION-LINES. RUSSELL T. CALLOWAY, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 29, 1920. Serial No. 369,533. 14 Claims. (Cl. 175—30.)

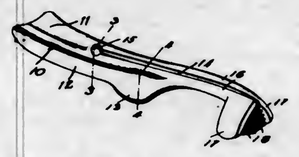
1. As an article of manufacture, a combined protective and switching unit of self-supporting character comprising a supporting base of angular formation, and having an upper horizontal limb and a depending vertical limb,

a lightning arrester on the horisontal limb of said base, and a disconnect switch on the vertical limb of said base,



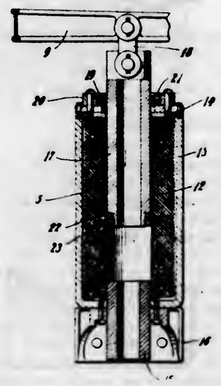
said disconnect switch having electrical connection with the lightning arrester.

1,389,624. TOOTHBRUSH. CHARLES EDWARD CARROLL, Newport, Ark. Filed June 23, 1920. Serial No. 390,994. 3 Claims. (Cl. 15—39.)



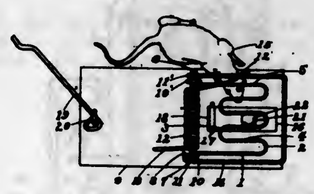
1. A tooth brush comprising a handle of channel shaped throughout its length and divided longitudinally to form spaced shank portions having outwardly and downwardly directed heads, and bristles carried by said heads and extending downwardly and inwardly toward each other.

1,389,625. ELECTRICAL SOLENOID. ALEXANDER CHURCHWARD, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc., a Corporation of New York. Filed June 24, 1919. Serial No. 306,373. 7 Claims. (Cl. 175—341.)



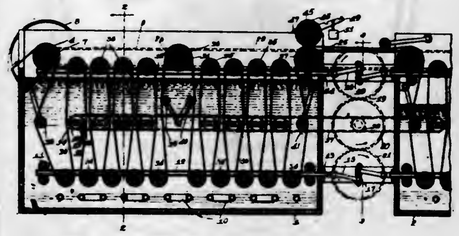
1. A solenoid comprising a coil, a core working therein, and a guide of self-lubricating anti-friction material secured in co-axial relation with the coil and fitting the core.

1,389,626. ANIMAL-TRAP. LEVI CRUTE, St. Joseph, Mo. Filed Dec. 8, 1919. Serial No. 343,157. 2 Claims. (Cl. 43—81.)



1. The combination with a spring actuated animal trap provided with bait holding means therefor and with a hinge member secured on each side of the central portion of the body of said trap; of a shield of grid formation said shield having other hinge members formed thereon and inserted in the hinge members of said trap respectively; a crank formed on the outer end of one of said hinge members of said shield said crank being adapted to be engaged by a movable portion of said trap for normally holding said shield in a practically vertical position while said trap is set; and an upright formed with said shield said upright being adapted to be engaged by another movable part of said trap after said spring is released thereby oscillating said shield from said vertical position to a position over said bait holding means.

1,389,627. TEXTILE-FABRIC-TREATING MACHINE. LOUIS CLARENBACH, Passaic, N. J. Filed Nov. 18, 1920. Serial No. 424,929. 6 Claims. (Cl. 8—19.)

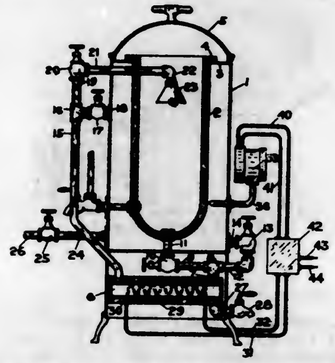


1. A vat for treating textile fabrics in open width with liquid consisting of a compartment, a frame structure arranged in said compartment with fabric carrying rollers, means for operating said frame to cause the fabric to engage the liquid flatwise while in the substantially vertical position and means for feeding said fabric through said compartment.

1,389,628. BEVERAGE-URN. WARREN F. CLARK, Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa., a Corporation of Delaware. Filed Dec. 24, 1919. Serial No. 347,239. 5 Claims. (Cl. 219—44.)

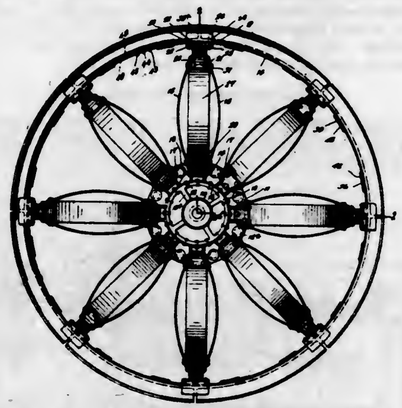
1. An urn construction comprising a liquid container, a beverage container associated with the container, a heating container, means for heating said heating con-

tainer, conduits connecting the heating container at two points and connecting with the liquid container at two



points whereby fluid may be circulated through the heating container and the liquid container.

1,389,629. VEHICLE-WHEEL. JOSEPH L. COHEN, New York, N. Y. Filed Feb. 20, 1920. Serial No. 360,058. 6 Claims. (Cl. 152—29.)

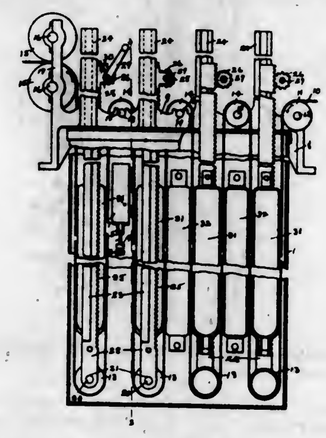


4. In a vehicle wheel, a hub, a resilient felly flat in cross section, resilient spoke members therebetween, and a tire carrying rim removably mounted on said felly, provided at its circumferential edges with tire retaining flanges, said flanges being provided with radially disposed cut-outs in spaced relation to each other, substantially in radial alinement with said resilient spoke members, and adapted to permit local deflection of said rim.

1,389,630. METHOD OF AND APPARATUS FOR SATURATING PAPER. CHARLES A. COONEY, Erie, Pa., assignor of one-half to Richard A. Cooney, Erie, Pa. Filed May 10, 1920. Serial No. 380,041. 11 Claims. (Cl. 91—46.)

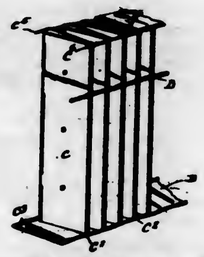
2. The method of saturating paper which consists in rapidly passing the paper through a saturating material in confined ways and delivering said saturating material at a high temperature into absorbing relation to the paper while confining the space occupied by the saturating material after it is placed in absorbing relation to effect a rapid transfer of the material from the point of delivery into saturating relation to the paper.

3. In a saturating apparatus, the combination of a tank; rollers at different levels for guiding paper into and out of the tank; devices for delivering saturating material to the tank; and means for reducing the space within the body of the tank and through which the paper passes.



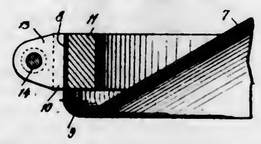
10. In a saturating apparatus, the combination of a tank; a series of upper rollers; a series of lower rollers, said rollers forming a series of paths for paper passing over them; a float arranged between two of the paths; and an inlet valve controlled by the float.

1,389,631. RADIATOR. EDWARD T. CURRAN, Detroit, Mich. Filed Dec. 23, 1918. Serial No. 267,900. 3 Claims. (Cl. 257—130.)



1. An autogenous welded radiator comprising an assemblage of flattened steel tubes, and knobs formed of separate material from that of the tubes welded on the interior flat surfaces of said tubes and bridging the space between opposite faces of the tubes to prevent collapsing, substantially as described.

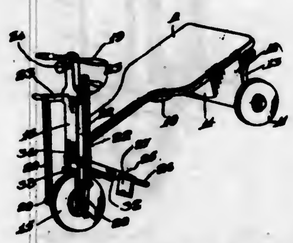
1,389,632. ACOUSTIC DIAPHRAGM. WILLIAM H. DAVIS, Bronxville, and FREDRICK E. JOHS, Brooklyn, N. Y., assignors to Lektophone Corporation, a Corporation of Delaware. Filed May 13, 1918. Serial No. 234,104. 3 Claims. (Cl. 181—32.)



2. An acoustic diaphragm, comprising a central, vibratile cone, an upstanding supporting rim encircling said

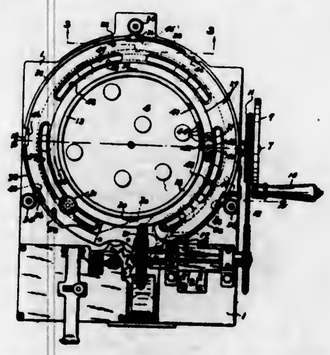
cone at the base thereof, and an annular trough connecting the lower portion of said rim and said cone base and providing a resilient mounting for the cone; and a support for said diaphragm comprising a pair of nested rings between which said rim is rigidly held.

1,389,633. SCOOTER-CAR. JOHN DITTRICK, Sr., Perth, Ontario, Canada. Filed Oct. 11, 1920. Serial No. 416,225. 3 Claims. (Cl. 208—33.)



1. A scooter car comprising a seat, a rolling rear support for the seat, a steering post pivotally connected to the seat, a wheel on the steering post, a crank connected to the wheel, a connecting rod extending from the crank, a hand crank connected to the upper end of the connecting rod, and a foot rest extending from the steering post, and a brake adapted to operate on the wheel, the said brake comprising a pivotally mounted rod, and a foot lever on the rod.

1,389,634. COIN-COUNTING MACHINE. EDWARD P. DONNELLAN, Brooklyn, N. Y., assignor to Standard Coin Counter, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 12, 1920. Serial No. 388,408. 13 Claims. (Cl. 133—8.)

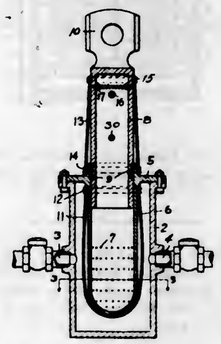


1. In a coin counting machine, the combination with a rotatable feed table of an annular coin guiding means vertically movable to accommodate the thickness of coin desired to be counted, stop means for limiting the upward movement of said guiding means, and means movable between said stop means and said guiding means for determining the desired elevation of the latter.

10. In a coin counting machine, the combination with a vertically movable coin guiding ring, of stop means for limiting the upward movement of said guiding ring, a rotatable adjustable cam ring intermediate said guiding ring and said stop means, said guiding ring having clearance notches alined with said stop means, and said cam ring having similar clearances notches alinable with said notches of said guiding ring by rotative movement of said cam ring, whereby both rings may be removed from the machine.

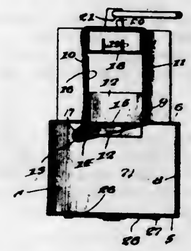
12. In a coin counting machine, the combination with a rotatable feed table, of a guide ring having a coin runway arranged over the marginal portions of said table, said guide ring having slots giving access to the interior of said runway.

1,389,635. DIAPHRAGM-PUMP. WESLEY E. DUNKLE, Contact, Nev. Filed Dec. 23, 1919. Serial No. 346,862. 13 Claims. (Cl. 103—10.)



1. A pump comprising a reciprocable plunger and a tubular, radially distensible working diaphragm surrounding the said plunger.

1,389,636. ANIMAL-TRAP. JOHN R. EASTRIDGE, Washington, D. C. Filed Mar. 17, 1921. Serial No. 452,979. 3 Claims. (Cl. 43—69.)

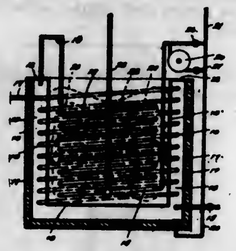


1. A trap comprising a pound having an opening in its top, spaced walls rising from the longitudinal edges of the opening, plates disposed against the ends of the opening and extending above and below the top of the pound between the said walls from one to the other, the upper portions of said plates being extended outwardly, a closure plate for the opening pivotally connected with the portions of the end plates that depend below the top of the pound, means for holding the closure plate yieldably in closed position and against downward movement, and a bait holder mounted between the walls intermediate the ends of the said opening.

1,389,637. HEAT-TRANSFERENCE APPARATUS. CROSBY FIELD, Brooklyn, N. Y., assignor to Chemical Machinery Corporation, New York, N. Y. Filed Jan. 7, 1918. Serial No. 210,714. 20 Claims. (Cl. 257—192.)

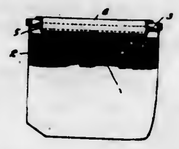
5. In an apparatus for heat transference, a vessel adapted to contain material, a jacket surrounding said vessel and adapted to contain a heat carrying medium, a coil in said vessel in communication with said jacket, the medium in said jacket adapted to circulate through

said coil, and secondary means out of contact with said vessel for changing the heat content of said medium, and



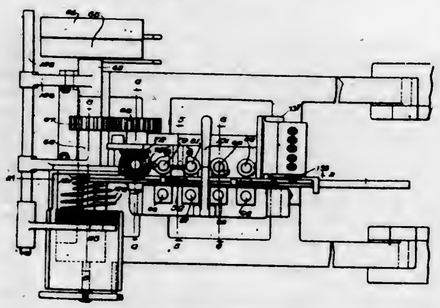
an agitator in said vessel for promoting the flow of the material therein about said coil disposed in said vessel, and in contact with the sides of said vessel.

1,380,638. SOLID FUEL AND PROCESS OF MAKING THE SAME. HARRY L. FISHER, New York, N. Y., assignor to S. Sternau & Co., Inc., Brooklyn, N. Y., a Corporation of New York. Filed Apr. 9, 1917. Serial No. 160,670. 3 Claims. (Cl. 44—7.)



1. A solid fuel comprising alcohol having approximately a 4% water content, the reaction product of caustic soda and stearic acid substantially free of oleic and palmitic acids, and stearic acid substantially free of oleic and palmitic acids.

1,380,639. FLANGE-CURLING MACHINE. PAUL W. FLEISCHER, Weehawken Heights, N. J., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed June 30, 1919. Serial No. 307,663. 13 Claims. (Cl. 153—29.)



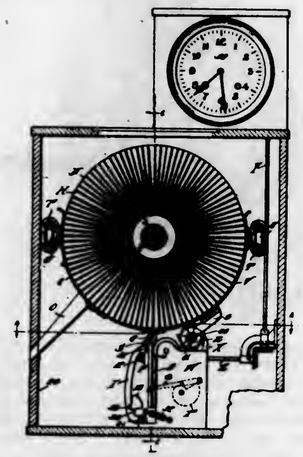
1. A can end flanging machine for curling the flanges of rectangular can ends, comprising in combination a plurality of sets of rolls successively engaging the flanges to be curled and operating to bring said flanges to desired formation, housings in which said rolls are mounted and between which the can ends move while being operated upon, said housings being separable on an axis parallel to the direction of travel of the said can ends.

1,389,640. OIL-CUP. WILLIAM J. FRISBIE, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 6, 1920. Serial No. 415,108. 5 Claims. (Cl. 184—48.)



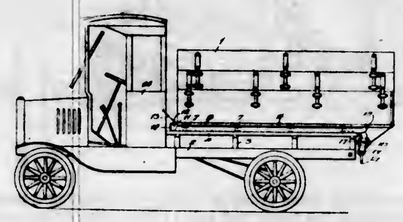
5. In an oiling device, the combination of a nipple member adapted to be secured on a support, a cup member having threaded connection with said nipple member, a bottom wall for said cup member, a removable top wall for said nipple member, said walls having registering openings for the flow of oil from the cup member to the nipple member, a spring housed within said nipple member and having its end projecting upwardly to the nipple top wall, the bottom wall of said cup member having detent formation for coöperation with said spring end to lock the cup member to the nipple member after threaded engagement of such members.

1,389,641. WORKMAN'S TIME-RECORDER. WILLIAM T. GELTZ, Cleveland, Ohio. Filed Apr. 17, 1920. Serial No. 374,589. 23 Claims. (Cl. 234—41.)



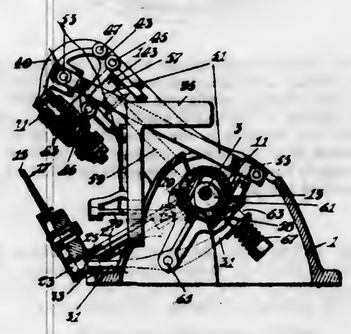
5. In a time recorder, the combination of a printing mechanism, a shaft, a card magazine rotatable with and slidable axially on said shaft, said magazine having a radial compartment for each card, means to rotate the shaft and slide the magazine laterally to register a selected compartment with said mechanism, and means automatically actuated by said means to permit a card to drop from said compartment to said mechanism and to return said card to said compartment.

1,389,642. DUMPING-BODY. OLLIE C. GEORGE, Chicago, Ill. Filed May 31, 1919. Serial No. 300,996. 4 Claims. (Cl. 298—14.)



1. In combination, a vehicle having a platform for receiving various types of interchangeable bodies, a pair of channel members removably mounted upon said platform, rollers journaled in said channel members, a dumping body, a pair of channel members carried by said dumping body and adapted for coöperation with said rollers to guide said body therealong, means carried by said first channel members for moving said body along said rollers, said means being arranged without the space between the vehicle platform and the dumping body to permit employment of a dumping body of maximum size and provide a low center of gravity and high order of stability in the resulting combination, a trunnion carried by the dumping body for limiting the movement thereof and fulcrum means carried by said first channel members for coöperation with said trunnion to form a pivot above which said body is tilted to dump its contents.

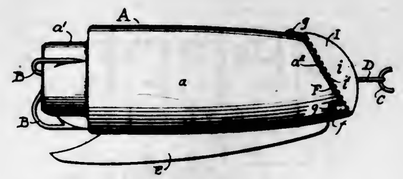
1,389,643. TURNING AND BEADING MACHINE. PERLEY R. GLASS, Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed June 29, 1916. Serial No. 106,625. 24 Claims. (Cl. 12—53.)



1. A machine of the class described, having in combination, mechanism for pounding a piece of work, and means for causing said mechanism either to pound the work or both to pound and to feed the work as may be desired.

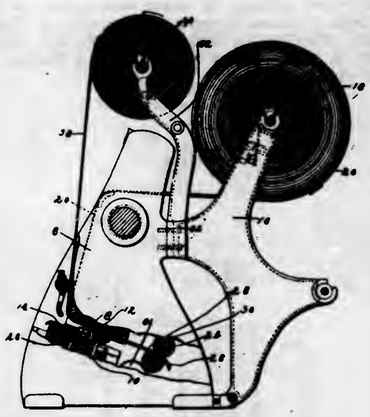
1,389,644. ADJUSTABLE LURE-WABBLER. HENRY L. GOTTSCHALK, Chicago, Ill. Filed Feb. 7, 1921. Serial No. 443,187. 3 Claims. (Cl. 43—46.)

1. A fish lure comprising a cylindrical body provided with an inclined plane at the forward end thereof extending downward and forwardly, in combination with a wabbler comprising a base rigidly secured to said forward end, a movable member provided with wings rigidly set



in planes inclined to the planes of the central portion thereof, and an eyelet arranged to rotatably attach said central portion of the movable member to said base.

1,389,645. PERFORATING. ALBERT E. HUDSON, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 14, 1919. Serial No. 338,046. 15 Claims. (Cl. 164—89.)



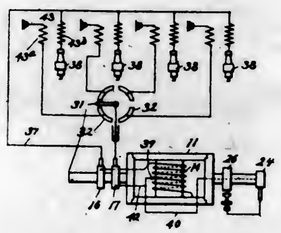
1. The process of perforating which consists in positioning the stock to be perforated against a plurality of superimposed backing members and operating a perforating instrument to perforate the stock and the backing member adjacent thereto.

11. In a machine of the class described, a punch, means to sustain a backing strip, means to sustain a supplemental backing strip between the first backing strip and the stock to be perforated, and means to cause the punch to perforate the stock and the supplemental backing strip.

1,389,646. IGNITION SYSTEM. DOW B. HUGHES, Cleveland, Ohio, assignor, by mesne assignments, to Motor Ignition & Devices Company, a Corporation of West Virginia. Filed Apr. 2, 1910. Serial No. 553,111. 7 Claims. (Cl. 123—148.)

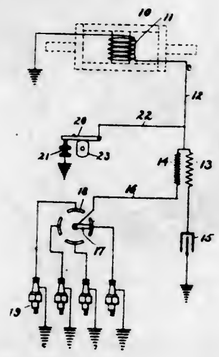
1. In an ignition system, spark electrodes, means for supplying to the electrodes high frequency current of high voltage so as to form an arc of low heat value and for supplying to the electrodes a current at relatively low voltage so as to form an arc of high heat value which follows after the arc of low heat value, comprising a gen-

erator having an armature winding, means for forming a local short circuit for the armature winding and for opening the short circuit, a condenser and a disruptive dis-



charge coil, the condenser being connected to said circuit in series with the primary of the coil, and the electrodes being connected to the armature winding in series with the secondary of the coil.

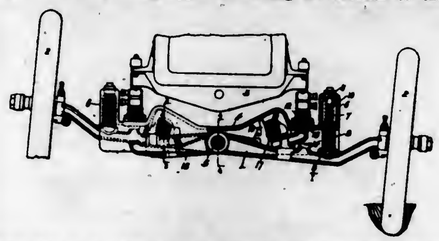
1,389,647. IGNITION SYSTEM. DOW B. HUGHES, Cleveland, Ohio, assignor, by mesne assignments, to Motor Ignition & Devices Company, a Corporation of West Virginia. Filed Oct. 22, 1910, Serial No. 588,426. Renewed Sept. 1, 1920. Serial No. 407,505. 6 Claims. (Cl. 123—148.)



1. In an ignition system for a plurality of spark plugs, a source of current, a distributer having stationary contacts connected to the spark plugs, and its movable member connected to the source of current so that current from said source may be distributed to the several plugs, a condenser, and a disruptive discharge coil, the condenser being connected to the source so that it may be charged thereby and having in its discharge circuit, the primary of the coil, and the secondary of the coil being connected to the movable member of the distributer, and means for periodically causing the charging and disruptive discharging of the condenser.

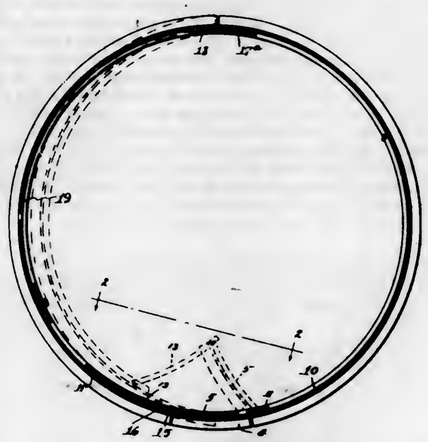
1,389,648. VEHICLE-BODY-EQUALIZING MEANS. AUGUST KADOW, Toledo, Ohio. Filed Feb. 21, 1921. Serial No. 446,852. 6 Claims. (Cl. 280—112.)

1. In a vehicle, a body supporting frame, an axle and an equalizing lever centrally carried by the frame for vertical rocking movements relative thereto and to each other, means for imparting opposed rocking movements to the



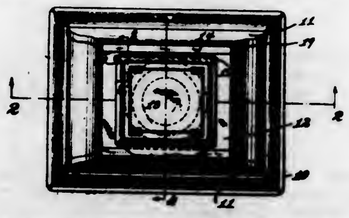
lever and axle when either is rocked, and yielding connection between the frame and axle at both sides of the axle center.

1,389,649. VEHICLE-RIM. CHARLES B. KEENUM, Cleveland, Ohio. Filed Feb. 2, 1920. Serial No. 355,615. 2 Claims. (Cl. 301—32.)



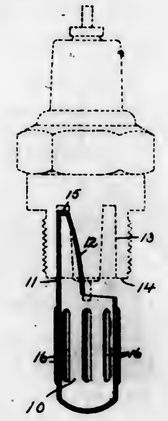
1. A vehicle rim comprising an annulus of channel form in cross section provided with beveled ribs on its inner surface, said annulus having one segmental portion separate and adapted to collapse inwardly, and hinge members connecting said segment to the remainder of the annulus and provided with interfitting tongues and recesses, said hinge members having beveled side portions which at their ends abut said beveled ribs.

1,389,650. INKSTAND. FRANZ A. FULLER, Newark, N. J., assignor to The J. E. Mergott Company, Newark, N. J., a Corporation of New Jersey. Filed Mar. 25, 1920. Serial No. 368,805. 5 Claims. (Cl. 120—57.)



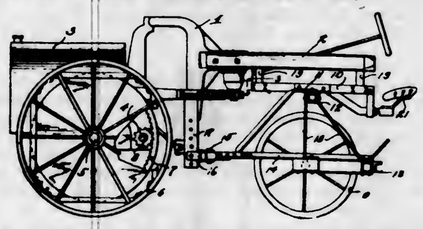
1. An inkstand comprising a sheet-metal base plate, a sheet-metal cover plate provided with marginal depressed portions mounted upon said base plate, sheet-metal side plates provided with marginal flanges to engage said depressed portions secured to the longitudinal, edges of the cover plate, said side plates each being provided with marginal integral interlocking means for securing the cover plate and side plates to the base plate.

1,389,651. SPARK-PLUG CLEANER. JOSEPH F. GONDER, Newark, N. J. Filed June 8, 1920. Serial No. 387,378. 3 Claims. (Cl. 83—64.)



1. A spark plug cleaner comprising an open-ended receptacle forming a handle and having a curved blade extending from its edge and in extension thereof at the open end so that material cut by the blade falls into the receptacle.

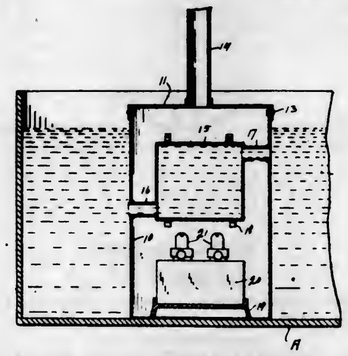
1,389,652. FARM IMPLEMENT. GEORGE W. GOSS and CHARLES E. GOSS, Baltimore, Ohio. Filed Dec. 17, 1919. Serial No. 345,674. 4 Claims. (Cl. 180—20.)



1. In a tractor, the combination with the frame thereof, an engine carried by the forward end of said frame, drive wheels mounted for rotation adjacent to the forward end of the frame, a land roller structure carried by and situated beneath the rear end of said frame, said roller structure being of such length as to bridge the distance between the inner edges of said wheels, and driving means for transmitting the power of said engine to said wheels, said means operating upon the advance of the tractor to force said roller downwardly.

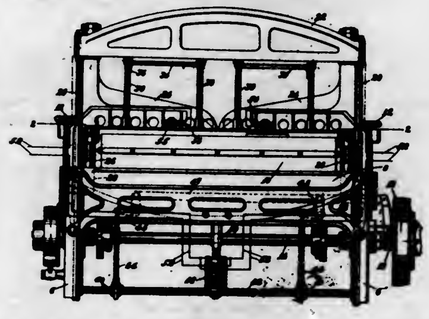
1,389,653. TANK-HEATER. WALTER H. GUBNIN, Lewellen, Nebr. Filed Feb. 21, 1919. Serial No. 278,358. 2 Claims. (Cl. 126—360.)

1. A tank heater of the character described including a casing, a closure normally closing the upper portion of the casing and formed of two sections hinged to each other, the closure as a whole being detachably engaged with the casing, one of said sections forming a lid adapted to be oscillated in a vertical plane, said lid section carrying an outlet pipe, the other section being formed with an air inlet opening, an air pipe attached to the wall of the casing and extending downward from said air inlet opening and discharging adjacent the bottom of the casing, a burner disposed within the casing, and a water tank disposed above the burner and between the burner and the



lid and supported within the casing in spaced relation at all points to the casing, the tank having an inlet pipe extending from the exterior of the casing into the bottom of the tank, and an outlet pipe extending from the top of the tank and opening upon the exterior of the casing whereby said heater may be disposed within a water container and the circulation of water produced through said tank by the heating of the water in the tank.

1,389,654. CUTTING-MACHINE. JOHN B. HADAWAY, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Apr. 29, 1918. Serial No. 231,349. 35 Claims. (Cl. 164—23.)

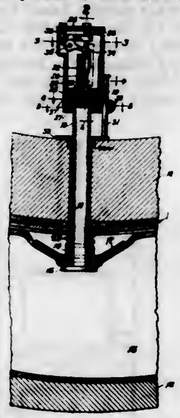


1. In a machine of the class described, a cutting block and a crosshead relatively movable toward and from each other, and a presser member co-extensive with approximately one-half of the cutting block and mounted for movement from and into position over the block between said block and crosshead.

1,389,655. WARNING-SIGNAL FOR TIRE DEFLATION. FREDERICK E. HAFELFINGER, Weehawken, N. J. Filed Aug. 11, 1920. Serial No. 402,794. 15 Claims. (Cl. 116—34.)

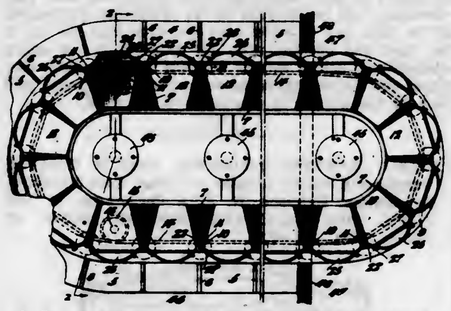
1. A signal for pneumatic tires, including a whistle adapted to be directly secured to the valve stem, means

for moving the valve stem endwise upon a predetermined change in tire air pressure, and means carried by the



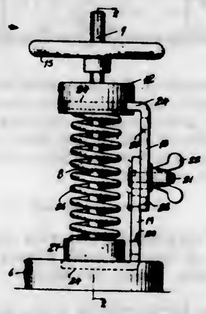
whistle for opening the tire air valve to blow the whistle upon said predetermined valve stem movement.

1,389,656. AUTOMATIC RESTAURANT. HUGH A. HALL, Philadelphia, Pa. Filed July 31, 1919. Serial No. 314,437. 5 Claims. (Cl. 186—1.)



1. In an automatic restaurant, a conveyer having a series of article receiving compartments, each of which is provided with a coin controlled delivery door, and having juxtaposed walls pivotally connected at their outer ends, and means to actuate said conveyer.

1,389,657. COMBINATION SPRING-COMPRESSOR AND SPRING-CLAMP. JOHN W. HARSLEY and MILTON P. AGGAR, New York, N. Y. Filed July 2, 1920. Serial No. 398,479. 5 Claims. (Cl. 29—86.3.)



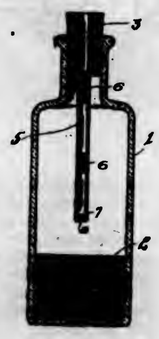
1. A combination spring compressor and spring clamp, comprising a stand to hold a spring with grooves made in the stand, a spring compressing device used in conjunction with the stand to force the spring into compression, and an adjustable clamp to slip into the grooves capable of fitting over the ends of a spring to hold said spring under compression.

1,389,658. LOOSE-LEAF BOOK. THOMAS E. HESTER, St. Louis, Mo. Filed Mar. 3, 1921. Serial No. 449,307. 4 Claims. (Cl. 129—21.)



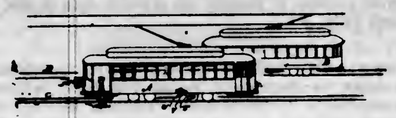
1. A loose leaf post, comprising a cylindrical section, an enlarged cylindrical base adapted to be received in a perforation in the book back or cover, a flange on the base, and a washer adapted to be riveted in connection with the base by the over-turning of the edges of the shoulder at the juncture of the base and the cylindrical portion.

1,389,659. RECEPTACLE FOR BACTERIAL CULTURES. MATHEW J. HOLLOWOOD, Rochester, N. Y. Filed Oct. 8, 1919. Serial No. 328,264. 3 Claims. (Cl. 215—37.)



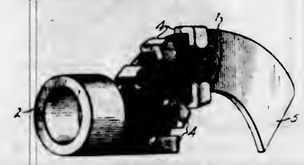
3. In combination with a receptacle, a bacterial culture media contained therein, a stopper for the receptacle, and an air tube carried by the stopper and depending into the receptacle, said air tube being of substantially uniform diameter throughout its length with its free end flaring slightly outwardly and having an inwardly turned portion tapering upwardly in the outwardly flaring portion and in spaced relation to the inner walls of the outwardly flaring portion, the inner end of the upwardly turned portion having an opening.

1,389,660. SAFETY-SIGNAL FOR STREET-CARS. HERBERT P. HOPPE, St. Louis, Mo. Filed Mar. 28, 1921. Serial No. 456,212. 6 Claims. (Cl. 246—208.)



4. A safety signal for a street car, comprising a warning signal located at one end of the car, a rotary circuit closer adapted to be rotated by the movement of the car and normally open under rotation but closing automatically when the car stops, and electric connections between said signal and said rotary circuit closer.

1,389,661. ROD-COUPLING. JOHN M. HUMISTON, Chicago, Ill. Filed May 27, 1920. Serial No. 384,771. 6 Claims. (Cl. 287—103.)



1. A rod coupling member, comprising means for attachment to the end of a rod, and an arcuate part formed to have interlocking engagement with the corresponding part of an identical member secured to a second rod.

1,389,662. MEANS FOR TREATMENT OF PYORRHEA. JOHN ROBERT IRWIN, Cobourg, Ontario, Canada. Filed Apr. 6, 1920. Serial No. 371,730. 1 Claim. (Cl. 174—89.)



The apparatus used in the treatment of pyorrhea comprising an arcuate member designed to be inserted in the mouth and to coincide with the gums, a solution retaining member carried by the arcuate member and adjacent to the gums, the said arcuate member being adapted to be connected to a source of electrical supply connected to the arcuate member whereby a current of electricity is passed through the arcuate member to ionize the solution, and impregnate all the gums simultaneously with the solution.

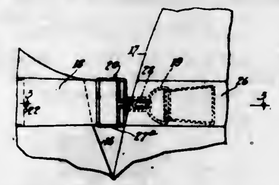
1,389,663. PROCESS OF PREPARING LICORICE-ROOT EXTRACT. KATSUICHI ITO, Nishi Ku, Osaka, Japan. Filed Apr. 5, 1920. Serial No. 371,260. 3 Claims. (Cl. 167—4.)

1. A process of preparing licorice root extract characterized by allowing a decoction of licorice root to stand for a while after adding thereto an acid, decanting therefrom supernatant clear solution, boiling the clear solution in the presence of an acid until the dissolved matters coagulate to the hardness of resin, and neutralizing the same by an alkali carbonate; substantially as and for the purposes hereinbefore set forth.

2. A process of preparing licorice root extract characterized by allowing a decoction of licorice root to stand for a while after adding thereto an acid, decanting therefrom supernatant clear solution, boiling the solution in the presence of an acid, thereby hydrolysing fermentable sugars and odor giving matters, until the dissolved matters coagulate to the hardness of resin, breaking the coagulated substance into pieces, and neutralising the same with an alkali carbonate, substantially as and for the purposes hereinbefore set forth.

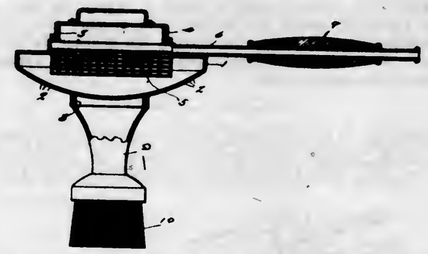
3. The process of preparing licorice root extract which consists in beating said root and adding hot water thereto, separating the fibrous material from the liquid, adding sulfuric acid to said liquid and boiling the same, allowing the liquid to cool thereby to coagulate glycyrrhizic acid therefrom, neutralizing said acid with an alkali carbonate, heating the mass to dissolve the same, and filtering the resulting solution.

1,389,664. GARMENT. ARTHUR A. JACKSON, Long Beach, Calif. Filed June 12, 1920. Serial No. 388,621. 1 Claim. (Cl. 2—144.)



In a garment of the character described having a back portion and an apron portion separated from each other at the sides of the garment, means for connecting said portions and adjusting the waist portion of the garment, said means comprising a strap extending across one of said portions to form a belt and having its ends overturned and secured to said portion adjacent its side edges to form loops, a fastening member adjustably positioned on said loops and complemental fastening members upon the other portion of the garment.

1,389,665. FOUNTAIN-BRUSH. OWEN JAMES, Brooklyn, N. Y. Filed Dec. 6, 1920. Serial No. 428,678. 1 Claim. (Cl. 15—51.)



A device of the class described comprising a body having a perforated bottom, an inlet pipe connected with the body for introducing water thereinto, a flange on the bottom of less diameter than the body, a hollow member detachably engaging said flange and a brush having a perforated head carried by said member.

1,389,666. CLOCK, WATCH, AND THE LIKE TIME-KEEPING INSTRUMENT. ARTHUR JARRED, London, England. Filed July 29, 1920. Serial No. 399,813. 1 Claim. (Cl. 58—128.)

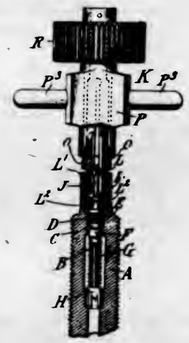
A time keeping instrument having a primary dial bearing two sets of hour indications, a masking dial to expose either of said hour indications and conceal the other in accordance with the position of the primary dial relative

to the masking dial, opposed springs carried by the primary dial and each operative when tensioned to move the primary dial in a direction responsive to such tension, a cam formed to directly engage and tension said springs



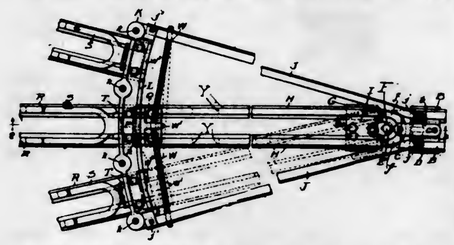
in succession at periodic intervals, and members carried by the primary dial to be held by said cam against permitting movement of the primary dial under the spring influence until one of said members and said cam are in a determinate relative position.

1,389,667. EXTRACTING-TOOL. HENRY P. KRAFT, Ridgewood, N. J. Filed Mar. 1, 1916. Serial No. 81,342. 5 Claims. (Cl. 29—86.1.)



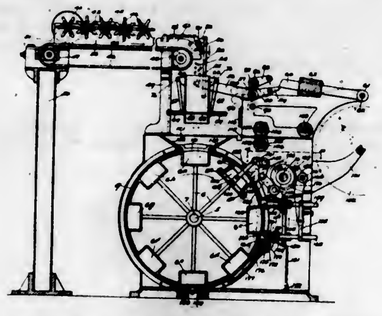
1. In an extracting tool, the combination of a normally expanded resilient member adapted to engage the part to be extracted, means for moving such member into such engagement, and means for moving the member to withdraw such part, said last-named means reacting against said first-named means.

1,389,668. SAFETY-SWITCH FOR A SUSPENDED TWO-RAIL TRACK. NIC KRUMP, Chicago, Ill. Filed Jan. 28, 1921. Serial No. 440,595. 7 Claims. (Cl. 104—103.)



1. In a safety switch for a suspended two rail track a vertical member rigidly secured on the underside of a supporting member, and provided with a table and a base at the lower end thereof, a horizontally disposed member provided with a semi-circular annular flange fulcrumed on said table member in combination with rails secured to said base so that the ends thereof abut against the curved outside of said semi circular flange, and additional rails secured to said fulcrumed member so that the ends thereof abut against the ends of said semicircular flange, and traveling means to support the opposite ends of said last named rails.

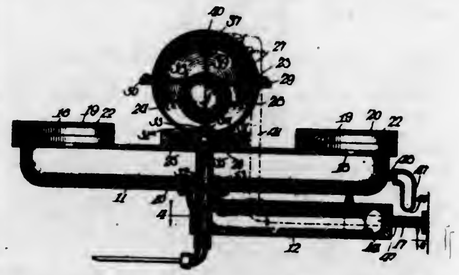
1,389,669. PACKAGING-MACHINE. GOTTHOLD L. LANGER, Portland, Oreg., assignor, by direct and mesne assignments, to Sticky-Fruit Packaging Machine Company, Portland, Oreg., a Corporation of Oregon. Filed Sept. 12, 1916. Serial No. 119,682. 10 Claims. (Cl. 93—7.)



1. In combination, a weighing receptacle to receive matter to be wrapped, means normally holding said receptacle in a loading position, said means being adapted to yield when a predetermined amount of matter has been put into said receptacle, means adapted to be automatically operated by the movement of said receptacle when loaded for discharging its load, wrapping mechanism positioned to receive the discharged load and adapted to automatically wrap said matter, and interconnections between said weighing mechanism and said wrapping mechanism, whereby the movement of the weighing receptacle and the discharge of its load automatically sets in operation the wrapping mechanism, substantially as described.

7. In a machine of the character referred to, in combination with a wrapping pocket adapted to receive the matter to be wrapped, folding members pivotally and slidably mounted adjacent said wrapping pocket, means for automatically moving said folding members into positions opposite said wrapping pocket, and means for automatically turning said folding members upon their pivotal mountings for automatically folding wrapping paper about matter to be wrapped within said pocket, substantially as described.

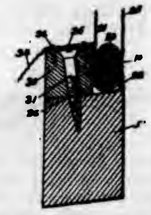
1,389,670. GAS-GENERATOR. JOSEPH W. LEE, River Forest, Ill., assignor to Lee Gas Generator Company, a Corporation of Illinois. Filed Oct. 31, 1917. Serial No. 199,552. 4 Claims. (Cl. 158—61.)



4. A gas generator of the character described, the combination of a manifold formed with a plurality of burners,

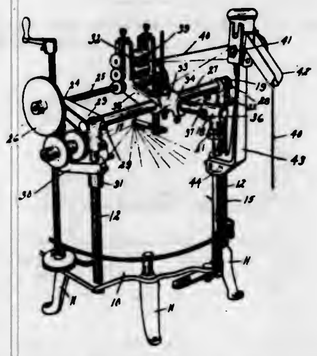
a mixing chamber communicating with said manifold and with the atmosphere, a vaporizing vessel adapted to be heated by one of said burners, means within the vessel for maintaining a substantially constant volume of oil therein, a duct communicating with said vaporizing vessel and adapted to conduct vapor therefrom to the mixing chamber, and a burner communicating with said manifold and adapted to heat said vapor adjacent the point where it is introduced into said mixing chamber.

1,389,671. VEHICLE-TOP. ADOLPH H. LICHTER, Toledo, Ohio. Filed July 22, 1918. Serial No. 246,226. 16 Claims. (Cl. 296—144.)



16. In combination, a vehicle body, a top therefor including inner and outer flexible portions, a border member concealed between said flexible portions and having projections extending therefrom, and means securing said projections upon said body.

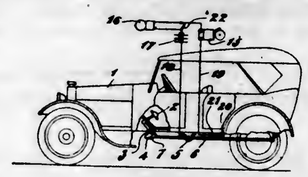
1,389,672. BRAIDING-MACHINE. ARLON LITTLEFIELD, Cranston, R. I., assignor to New England Butt Company, Providence, R. I., a Corporation of Rhode Island. Filed Jan. 15, 1920. Serial No. 351,629. 7 Claims. (Cl. 28—4.)



1. In a braiding machine, a body portion including the braiding and twisting elements, a frame supported on said body comprising two side standards, a mechanism supporting cross-bar removably mounted on said side standards, a rear standard on the body portion of the machine and positioned between said side standards, and means whereby said rear standard is caused to coöperate with said cross-bar for adjustably supporting said mechanism.

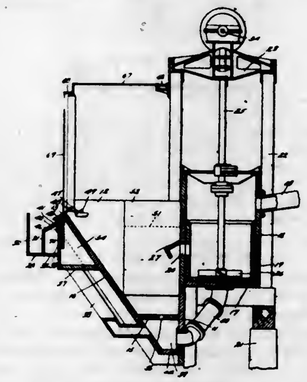
1,389,673. AUTOMOBILE-SIGNAL. GEORGE LOCKHART, New York, N. Y. Filed Apr. 3, 1919. Serial No. 287,294. 2 Claims. (Cl. 116—36.)

1. The combination with a motor vehicle, a brake lever for controlling the brake of said vehicle and a cam on said brake lever, of a bracket secured to the under side of the vehicle, a lever rockably mounted in said bracket, means on the lever for coöperation with the cam whereby when the brake lever is operated the lever will be rocked



and means controlled by the movement of the lever to indicate the intention of the operator of the vehicle to stop.

1,389,674. FLOTATION-MACHINE. LEO DANIEL LYONS and CONRAD FRANCIS HOFF, Butte, Mont. Filed May 21, 1920. Serial No. 383,229. 13 Claims. (Cl. 83—85.)



1. In a flotation machine provided with a container, having an overflow lip, and a movably and automatically operated member associated with said container for uniformly separating the concentrate froth from the subfroth, as said froths flow over said lip regardless of the level of the pulp in said container.

1,389,675. COLLAR-HOLDER. WILLIAM J. MCCLELLAN, Attleboro, Mass., assignor to Freeman-Daughaday Co., Chartley, Mass., a Corporation of Massachusetts. Filed Sept. 17, 1920. Serial No. 410,958. 5 Claims. (Cl. 24—81.)

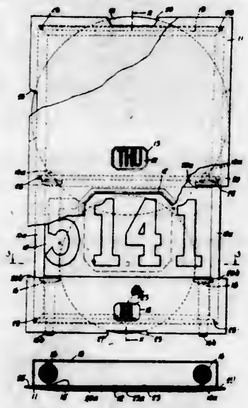


1. A collar holder comprising a bar having a pair of oppositely extending gripping arms formed integral with and folded downwardly from the side edge of said bar, each arm coöperating with its end of the bar to grip the fabric between them.

1,389,676. CALENDAR. ANDREW J. MCDADE, Brooklyn, N. Y. Filed July 13, 1920. Serial No. 395,923. 4 Claims. (Cl. 40—113.)

1. A calendar of the class described including a body having a front presenting an opening for the display of

a given day of the month, winding rollers mounted in said body at the sides of said opening and optionally operable from the exterior of the body, a web extending transversely of said body between said rollers and across said opening adapted to be moved in either direction by the rollers, a unit on said body beneath said front and

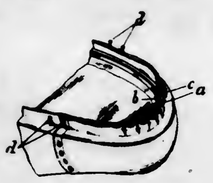


constituting at said opening a table forming a backing for said web, and adjustable means carried by said unit respectively above and below said table and bearing respectively the names of the week days and the months, said front of the body presenting openings at which the name of a week day and the name of a month may be displayed.

1,389,677. MEDICAL COMPOUND. JOHN HEBER MCDAVIS, Newark, N. J. Filed Apr. 12, 1920. Serial No. 373,329. 2 Claims. (Cl. 167—9.)

1. A compound of the character specified, composed of the following ingredients in the quantities named: black gun powder, 2 grains, chloroform, 70 grains, beef gall 3¾ drams, alcohol sufficient to make one ounce.

1,389,678. METHOD OF MAKING SHOES. RONALD F. MCFEELY, deceased, Beverly, Mass., by E. Mark Sullivan, administrator, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 1, 1916, Serial No. 94,675. Divided and this application filed Jan. 14, 1918. Serial No. 211,850. 11 Claims. (Cl. 12—145.)



1. That improvement in methods of making shoes which consists in pulling over a last both lengthwise and laterally the toe portion of an upper including stiffening material which is normally hard but has been temporarily softened, after the upper has been thus pulled at the end and the sides of the toe and before said stiffening material has had time to harden, working the pulled-over upper into permanently lasted position around the toe, maintaining the lasting pressure until said stiffening material has substantially hardened, and then releasing the upper from said pressure and utilizing the stiffening material to hold the upper in lasted shape.

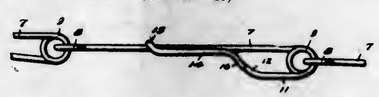
1,389,679. ALLOY STEEL. PHILIP M. MCKENNA, Congress Heights, D. C. Filed Apr. 2, 1921. Serial No. 458,031. 2 Claims. (Cl. 75—1.)

1. An alloy steel of usual formula and containing 16 to 20 per cent. of tungsten, 2½ to 5 per cent. of chromium, and 1 to 3 per cent. of tantalum.

1,389,680. ALLOY STEEL. PHILIP M. MCKENNA, Congress Heights, D. C. Filed Apr. 2, 1921. Serial No. 458,032. 1 Claim. (Cl. 75—1.)

An alloy containing, besides iron, not less than .20 per cent. carbon, .70 to 1.60 per cent. chromium, and 1 to 3 per cent. of tantalum.

1,389,681. CLOTHESLINE. MILTON H. MCKINLEY, Seattle, Wash. Filed Feb. 10, 1920. Serial No. 357,592. 1 Claim. (Cl. 68—3.)



A pinless clothes line formed of connected wire sections, each comprising a straight line section, a loop formed at one end thereof, the other end of the straight line section being bent to form a resilient perpendicularly extending loop, with the end of the wire of the resilient loop extending from the lower side thereof for a short distance parallel to the straight line section and abruptly inclined toward the straight line section to form an abutment, and bent upon itself to provide parallel members spaced slightly below the straight line section and connected by a loop overlying the straight line section, the end of the wire being angularly bent to lie adjacent the abutment section of the relatively short portion extending from the resilient loop to coöperate therewith in limiting movement of clothes mounted on the straight line section toward the resilient loop.

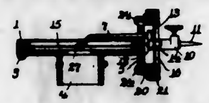
1,389,682. HAMMOCK. ABRAHAM MELNIKER, Brooklyn, N. Y. Filed Oct. 12, 1920. Serial No. 416,438. 2 Claims. (Cl. 5—56.)



1. A collapsible hammock, crib or the like including the combination of rigid corner members having end bars rigidly connected therewith, and longitudinal bars pivotally secured thereto, so that the said longitudinal bars can be revolved toward and away from the said end bars, the said longitudinal bars being connected by intermediate frames to which they are pivotally connected so that one set of longitudinal bars can be revolved until they overlie the other set of longitudinal bars and locking means adjacent and adapted to be secured to the said corner frames and to the adjacent ends of the said longitudinal bars, the said longitudinal bars being so mounted in the said intermediate frames that they can be revolved in only one direction, so as to be one above the other, the said hammock, crib or the like being free from any locking cross-members which extend beneath the fabric thereof.

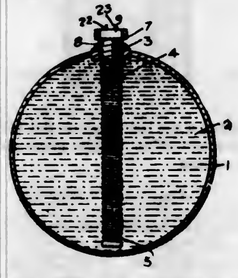
1,389,683. SOUND-BOX. GEORGE A. MOORE, Medford, Mass. Filed Sept. 28, 1919, Serial No. 326,419. Renewed Sept. 25, 1920. Serial No. 412,893. 14 Claims. (Cl. 274—35.)

1. A sound box comprising a case, a resonator diaphragm supported by said case, a pivotal diaphragm supported substantially at right angles to the plane of the resonator diaphragm and with its center in the plane of



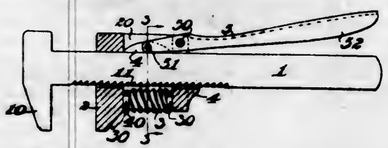
the same, and a needle arm supported by the pivotal diaphragm and attached to the resonator diaphragm.

1,389,684. ELECTRIC HEATER. WILLIAM ANDREW MORRISON and FREDERICK DELIMER LAKE, St. Catherines, Ontario, Canada. Filed Oct. 4, 1920. Serial No. 414,629. 4 Claims. (Cl. 219—41.)



1. An electric water heater comprising a cylindrical casing of heat conducting material adapted to be inserted in an orifice in a boiler wall and to extend inwardly into the boiler, a core formed of heat absorbing material fitting within the casing and provided with a double thread extending longitudinally thereof, and a winding formed by a wire extending inwardly longitudinally of the core through one member of the double thread and returning outward through the other member of the double thread and adapted to be secured at its ends to leading in wires.

1,389,685. WRENCH. CHARLES F. NAST, Anacortes, Wash. Filed July 19, 1920. Serial No. 397,455. 3 Claims. (Cl. 81—158.)



1. In a wrench, in combination, a handle having a fixed jaw and teeth thereon, a jaw coöperating with said fixed jaw and movable along the handle, a lever pivotally supported upon said movable jaw and extending along the edge of the handle opposite the jaw opening, in position to be brought closely against the handle when gripped in use, and a toothed locking member carried within and movable relative to the movable jaw, and connected with said lever to be moved into engagement with the teeth of the handle when said lever is brought closely against the handle.

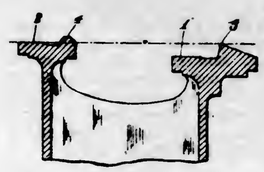
1,389,686. TIE-PLATE. GEORGE W. NIMER, Chicago, Ill. Filed Nov. 29, 1920. Serial No. 426,910. 4 Claims. (Cl. 238—296.)

1. A tie plate having an upper rail receiving surface and a rail abutting flange extending transversely of the said plate, the said rail bearing surface being canted longitudinally of said plate, and a bottom tie engaging surface having longitudinally extending ribs on its marginal edges, and a longitudinally extending central rib intermediate its edges, and a series of diagonally extend-



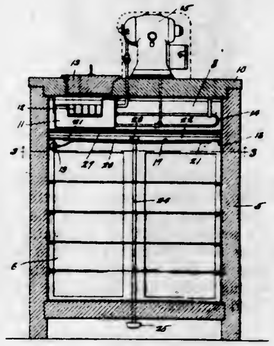
ing tie engaging ribs joined at their inner ends to the said central rib and to the marginal ribs at their outer ends and having a series of recesses in the body of said tie plate between said diagonally extending ribs respectively and between the central rib and the marginal ribs.

1,389,687. LATHE-BED. KARL OLSSON and ANDERS HILMER OLSSON, Lidköping, Sweden, assignors to Aktiebolaget Lidköpings Mekaniska Verkstad, Lidköping, Sweden, a Corporation. Filed Sept. 22, 1919. Serial No. 325,422. 1 Claim. (Cl. 82—32.)



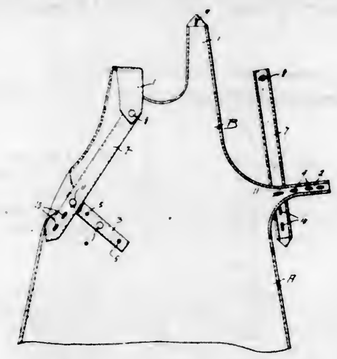
In a lathe bed front and back slides, gibs on said slides to guide the saddle or carriage, the front slide being arranged lower than the back slide and the gib of the front slide being arranged at approximately the same level as the back slide for the purpose of obtaining a corresponding increase in the thickness of material counted in a vertical direction at the fore end of the saddle or carriage.

1,389,688. REFRIGERATOR. REUBEN E. OTTENHEIMER, Baltimore, Md. Filed Nov. 11, 1920. Serial No. 423,237. 1 Claim. (Cl. 62—4.)



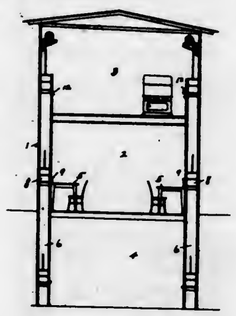
A refrigerator comprising a storage chamber, a cooling chamber at the top of the storage chamber and having a bottom outlet slot, a pair of oppositely movable damper plates associated with the slot, and an operating rod extending lengthwise of the damper plates, toggle links connecting the rod to the respective damper plates, and a thermostat operatively connected to the rod.

1,389,689. APRON. HENRY W. PARKER, Little Rock, Ark. Filed July 26, 1920. Serial No. 398,862. 2 Claims. (Cl. 2—54.)



1. As a new article of manufacture, an apron consisting of a skirt, a bib, straps at the opposite sides of the bib, straps at opposite sides of the apron at the waist line thereof, said skirt, bib and straps comprising a single sheet of material adapted to lie flat, and shoulder straps removably connecting the first named straps and the second named straps, each of said shoulder straps coacting with a first named strap and a second named strap at the same side of the apron.

1,389,690. WAITERLESS RESTAURANT. CHARLES [illegible] PAUL, Texas City, Tex. Filed Aug. 11, 1920. Serial No. 402,904. 1 Claim. (Cl. 186—1.)



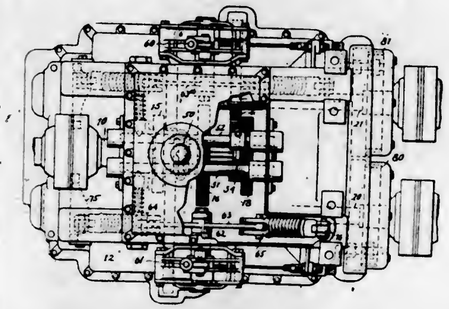
In combination, a dining room, a serving room, tables arranged in said dining room adjacent the walls thereof, elevator shafts arranged within the walls adjacent the respective tables and continuing to said serving room, waiters movable in said respective shafts, between the tables and serving room, and means for controlling the movement of said waiters.

1,389,691. DRY-CELL ELECTRIC BATTERY. JAMES E. PEAVEY, Cincinnati, Ohio. Filed Mar. 15, 1919. Serial No. 282,907. 1 Claim. (Cl. 204—38.)

In a dry cell electric battery, a metallic casing providing a container and battery anode, a cathode electrode centrally disposed within said casing, an absorbent inner lining for said casing having its upper end folded inwardly about the electrode providing an end covering for the battery electrolyte, a non-absorbent electrical insulated sleeve around said electrode protecting the electrode from contact with the edges of the folded portion of said lining, and embedded within pitch sealing the end of the battery casing.



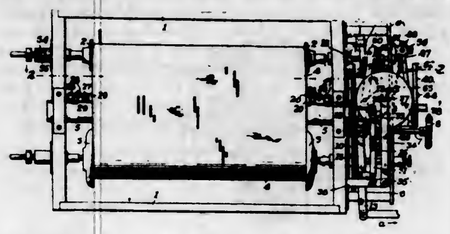
1,389,692. TRANSMISSION MECHANISM. GORDON R. PENNINGTON, Cleveland, and SAMUEL K. WELLMAN, Cleveland Heights, Ohio. Filed Dec. 5, 1919. Serial No. 342,625. 9 Claims. (Cl. 180—17.)



1. In transmission mechanism, the combination of a driving shaft, two parallel driven shafts, four gear sleeves which are loosely mounted, two on one driven shaft and two on the other driven shaft, and which are intergeared with one another whereby all must rotate when any one is rotated, means through which motion may be transmitted from the driving shaft to one of said gear sleeves, a clutch associated with each gear sleeve, and means for selectively operating said clutches to connect the driven shafts with either of the gear sleeves loosely mounted thereon.

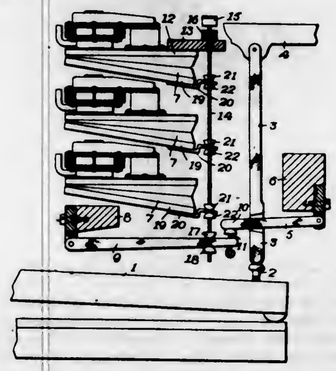
1,389,693. MUSIC-SHEET-GUIDING MECHANISM. CLAUS E. PETERSON, Worcester, Mass., assignor to Iverson Piano Player Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 22, 1919. Serial No. 272,506. 9 Claims. (Cl. 84—137.)

1. In a mechanism of the class described, the combination with a rotatable delivery spool longitudinally adjustable in its bearings, a tracker bar and means for moving a music sheet from said delivery spool over the tracker bar, of a rocking shaft journaled transversely to the axis of said delivery spool, an arm carried by said rocking shaft bearing against said delivery spool to move it in one direction, a spring applied to the delivery spool to move it in the opposite direction, and a second spring applied to said arm to press it toward the delivery spool,



and means controlled by the lateral deflection of the music sheet from its normal path over the tracker bar for rocking said shaft.

1,389,694. PNEUMATIC PIANO-PLAYER. CLAUS E. PETERSON, Worcester, Mass., assignor to Iverson Piano Player Company, Boston, Mass., a Corporation of Massachusetts. Filed May 5, 1919. Serial No. 294,925. 4 Claims. (Cl. 84—68.)



1. In a pneumatic piano player, a series of pneumatic motors each having a movable leaf, arms extending from said movable leaves, a series of levers pivoted to a fixed framework and extending beneath said arms, striker wires of uniform length connecting said arms and said levers, stops for limiting the upward movement of said striker wires, and means for operatively connecting the free ends of said levers with the sound producing mechanism of a piano.

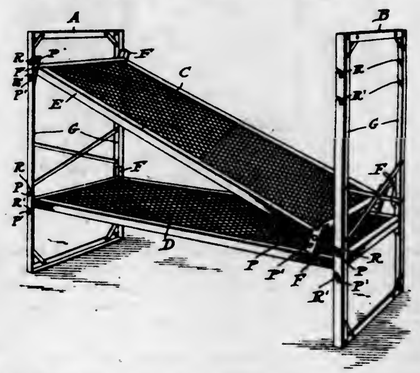
1,389,695. ALLOY OF IRON ZIRCONIUM AND SILICON AND PROCESS FOR THE PRODUCTION THEREOF. NAPOLEON PETINOT, New York, N. Y., assignor to United States Ferro-Alloys Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 18, 1919. Serial No. 318,322. 3 Claims. (Cl. 75—1.)

1. An alloy of iron, zirconium and silicon in which the ratio of zirconium to silicon is not less than 80 parts of zirconium to 20 parts of silicon and not more than 85 parts of zirconium to 15 parts of silicon.

1,389,696. ALLOY OF NICKEL AND IRON AND A PROCESS FOR THE PRODUCTION THEREOF. NAPOLEON PETINOT, New York, and ROBERT TURNBULL, Niagara Falls, N. Y. Filed Nov. 17, 1919. Serial No. 338,449. 3 Claims. (Cl. 75—1.)

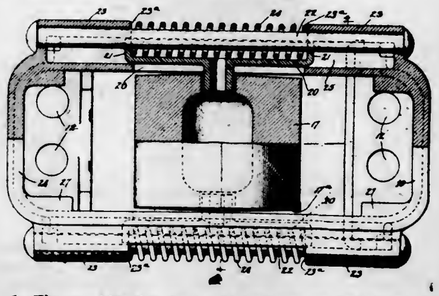
1. The method of making an alloy of iron and nickel comprising the charging into an electric furnace with a basic hearth, of a cold matte having an iron, nickel and sulfur content, then charging into the furnace lime and carbon in such quantities that the sulfur content of the matte will be removed as calcium sulfid, then melting the charge and then skimming off the slag, then adding a second slag composed of lime and carbon, then smelting the same and then strongly agitating the bath with a rod.

1,389,697. DOUBLE-DECK BUNK. ARTHUR PHIPPS, Baltimore, Md., assignor to Southern-Rome Company, branch of Rome Metallic Bedstead Company, Baltimore, Md., a Corporation of New York. Filed Aug. 14, 1919. Serial No. 317,505. 4 Claims. (Cl. 5—60.)



1. A bunk of the character described comprising spaced apart slotted end frames, a plurality of rectangular bed frames, and short vertical cross pieces bracing the corners of the respective bed frames, said cross pieces having pins engaging the slots of said end frame, whereby the bed frames may be supported.

1,389,698. SIDE BEARING FOR RAILWAY-CARS. EDWARD POSSON, Chicago, Ill. Filed Jan. 20, 1919. Serial No. 272,218. 8 Claims. (Cl. 64—64.)

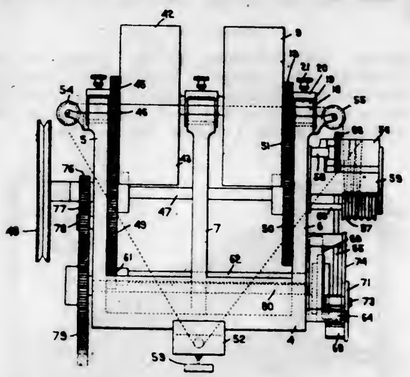


1. The combination in a side bearing for railway cars, of a casing having a channel in its upper side, a rolling body adapted to travel in said channel, the walls of said channel having longitudinal slots therethrough, pinions extending through said slots and engaging said rolling body, supporting members connected to said pinions, guide rods, and means for resiliently mounting said supporting members on said guide rods.

1,389,699. ENDLESS BELT OR CORD AND MACHINE AND PROCESS FOR MAKING THE SAME. EDWARD RIVETT, Hull, Mass. Filed June 22, 1918. Serial No. 241,318. 25 Claims. (Cl. 28—2.)

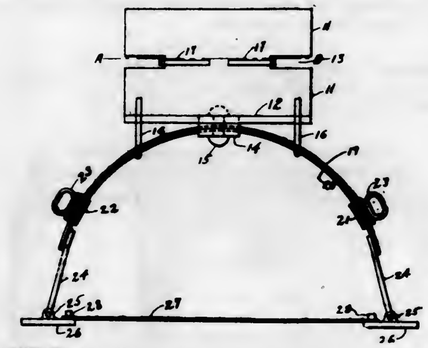
1. A machine for making an endless belt or cord comprising a pair of reversibly rotatable carriers provided

with hollow axles, means for simultaneously and reversely rotating said carriers, means for progressively feeding an endless core filament through said axles, a filament supply mounted in each carrier, means for guiding the filaments from both carriers into the hollow axles at ad-



jacent points whereby when each filament is led from its supply and secured to the endless core filament, the carrier filaments will be twisted in reverse directions about the core filament and then about themselves until an endless belt or cord of required size is formed.

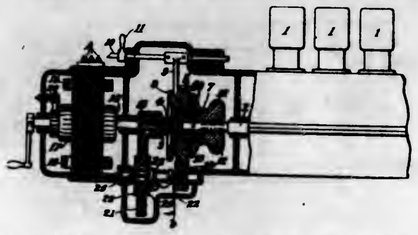
1,389,700. BOOK-SUPPORT. ABRAHAM RODOW, New York, N. Y. Filed July 23, 1920. Serial No. 398,448. 9 Claims. (Cl. 45—82.)



1. A book support for a person in a lounging position comprising a backing plate for a book, said backing plate having notches in its sides, a pair of clamps for the leaves of the book, said clamps passing through said notches and being connected to each other by means of an elastic medium, said notches being adapted to permit books of various sizes to be placed on said backing plate, and a means for supporting said backing plate over the body of said person.

1,389,701. SELF-STARTER OR THE LIKE. OSCAR A. ROSS, New York, N. Y. Filed Feb. 7, 1917. Serial No. 147,224. 7 Claims. (Cl. 290—31.)

1. In a device of the kind described, an internal combustion engine, a dynamo connected therewith, a source of energy therefor, means controlling the relation of said source of energy to said dynamo, means including gearing for effecting a change of speed relation between said engine and said dynamo, and means affected by the speed of said engine for simultaneously controlling said means controlling the relation of said source of en-



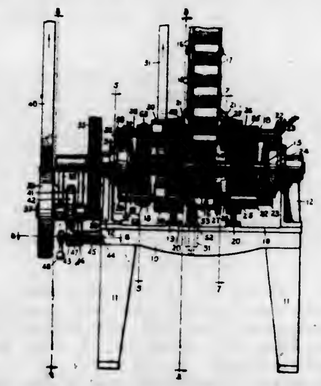
ergy to said dynamo, and said means for affecting a speed relation between said engine and said motor-generator.

1,389,702. FLASHLIGHT-TORCH. LOUIS L. SCHACHT, New York, N. Y. Filed Mar. 17, 1920. Serial No. 366,602. 5 Claims. (Cl. 67—32.)



4. An improved flash light torch comprising a holder for powdered substance, a cap thereon, a post on the cap, a bracket fixed to the post and having upwardly disposed arms, a ring of non-combustible material supported in said arms, tubes projecting upwardly through said cap, and means to deliver a blast of air into the holder.

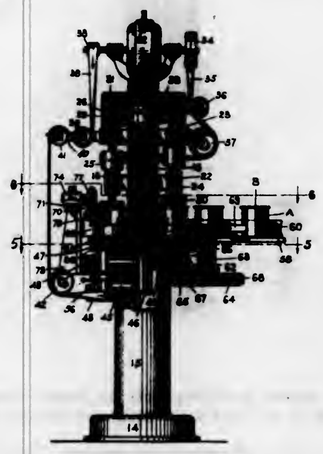
1,389,703. CAN HEADING AND FLANGING MACHINE. LEE C. SHARP, Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 22, 1916. Serial No. 92,941. 27 Claims. (Cl. 113—23.)



1. The combination of a can end chuck, a can body chuck, can ends formed with double flanges and adapted

to form flanges on the edges of the can bodies, said double flanges having flange-limiting stops, means for placing said can ends and unflanged can bodies successively in alinement between said chucks, and means for decreasing the distance between said chucks until the edge of the can body is engaged with the flange of the can end, and for continuing to decrease said distance until the said edge of the can body is formed with a radially presented double seaming flange.

1,389,704. CAN-CLOSING MACHINE. LEE C. SHARP, Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed July 3, 1916. Serial No. 107,219. 11 Claims. (Cl. 113—23.)



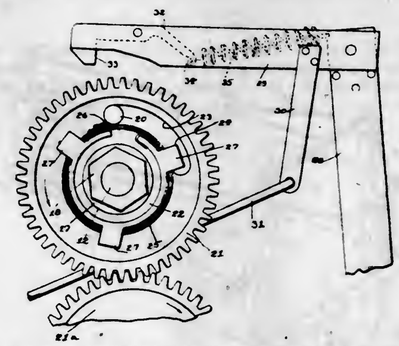
1. In a can-closing machine, a horizontal table rotatable about a vertical axis, a plurality of rotatable and vertically movable spindles spaced equally about the axis of the table, and mounted in bearings fixedly connected with the table, chucks disposed terminally upon the spindles, means for moving the spindles toward and away from the table to clamp cans and covers between the same and the chucks during a part of the movement about the table-axis, means for rotating the spindles during the clamping of the cans and covers, from which rotating means said spindles are periodically disconnected, and seaming-rollers mounted on fixed axes adjacent to the path of the cans and covers so as to be engaged thereby while the covers are clamped on the cans.

1,389,705. RAIL-FASTENER. HENRY C. SICKMANN, Marthasville, Mo. Filed May 27, 1921. Serial No. 472,945. 2 Claims. (Cl. 238—65.)



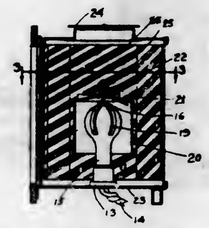
1. The combination with a tie having a recess, said recess being provided with upwardly and inwardly inclined side walls, and a rail section having its base arranged in said recess, of a reversible fastener comprising a plate adapted to be secured to the tie adjacent said recess, said plate being provided with oppositely disposed projections each of said projections being adapted to enter said recess and engage the base of the rail section to retain the rail section in position, said projections being of similar shape but varying in size.

1,389,706. OPERATING MECHANISM FOR THE IGNITION-GENERATORS OF INTERNAL-COMBUSTION ENGINES. GRAHAM SMITH, Savannah, Ga. Filed Oct. 9, 1920. Serial No. 415,780. 2 Claims. (Cl. 123—149.)



1. In a device of the type described, a generator shaft, a flange secured to the generator shaft and provided upon one face thereof with a lug, spaced lugs formed upon the opposite face of said flange, a driven element rotatably mounted coaxially with said shaft and provided with an arcuate slot slidably receiving the first-named lug, a suitable support adjacent said shaft, a lever pivotally connected at one end to said support and having the free end thereof overhanging the last-named lugs of said flange, a bell crank lever pivotally connected to said lever adjacent the free end thereof and provided upon one arm thereof with a jaw, and identical means for normally holding said jaw projecting beyond the surface of the lever next adjacent said last-named lugs and holding said lever out of engagement with said lugs.

1,389,707. ELECTRICAL DISPLAY-SIGN. HERMAN E. SMITH, Indianapolis, Ind., assignor to Smith-Hecht Company, Indianapolis, Ind., a Copartnership. Filed Feb. 14, 1921. Serial No. 444,837. 3 Claims. (Cl. 40—40.)

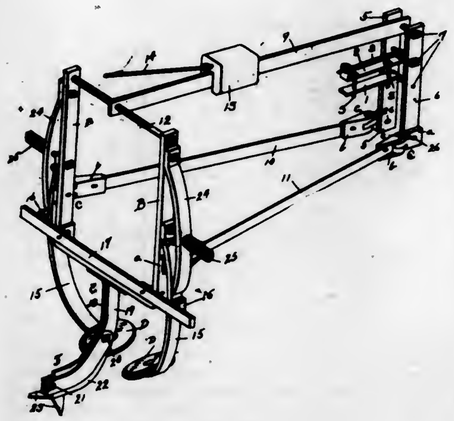


1. In combination with an illuminating sign having an incandescent lamp bulb mounted therein, a translucent face and a revolving drum adapted to be revolved by the heat rising from said illuminator, of means for supporting said drum thereon, comprising a vertically extending bearing support carried by the top of said bulb, an annular ring formed on the base of said support arranged to encircle the projecting tip of said bulb for holding it in position, and a plurality of resilient arms adapted to extend downwardly from said support and embrace the bulged portion of said bulb for removably securing said support thereon.

1,389,708. BEET-TOPPING APPARATUS. MARION A. SMITH, Salt Lake City, Utah. Filed Apr. 18, 1919. Serial No. 291,128. 2 Claims. (Cl. 55—107.)

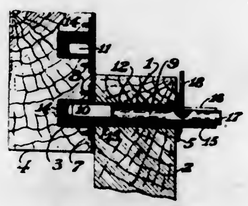
2. A beet topper comprising a U-shaped frame to be drawn in front of a digging element and hinged thereto

and adapted to be shifted laterally and vertically; coacting guide wheels suspended from said frame and journaled at opposed angles and adapted to pass beets growing in the soil to shift said frame laterally; springs on the



standard of each guide wheel to allow it to yield outwardly to pass a major sized beet without injuring it, and a topping knife fastened to said frame and movable therewith in the rear of said guide wheels.

1,389,709. WINDOW AND DOOR LOCK. MORRIS SUBBIN, Philadelphia, Pa. Filed May 25, 1920. Serial No. 384,100. 4 Claims. (Cl. 292—60.)



1. In a lock of the character stated, a slidable and rotatable bolt, a barrel adapted to freely contain the same, a socket which an end of said bolt is adapted to occupy, a finger piece on said bolt adapted to operate the same to remove it from said socket, and said barrel having therein a longitudinally extending slot in which said finger piece is movable, and a catch on a member to be locked adapted to have said finger piece engaged therewith.

1,389,710. DEVICE FOR UNSCREWING AND WITHDRAWING PIPE. WILLIAM C. THOMAS, JAMES C. DICKENS, and JESSE W. FOWLER, Goose Creek, Tex. Filed Feb. 19, 1921. Serial No. 446,495. 4 Claims. (Cl. 255—35.)

1. A device of the character described, including a driving member, a driven member, an anchor, means carried by the anchor whereby the device is fixed in a well casing, means carried by the anchor and operatively connected with the driving member and the driven member, through which the rotation of the driving member will be imparted, in a reverse direction, to the driven member, a



tubular member depending from the driven member and arranged to be clutched therewith and declutched therefrom.

1,389,711. COMBINED BADGE AND DETACHABLE WATCH-GUARD. LLOYD E. THOMAS, Detroit, Mich. Filed May 10, 1920. Serial No. 380,366. 2 Claims. (Cl. 40—1.5.)

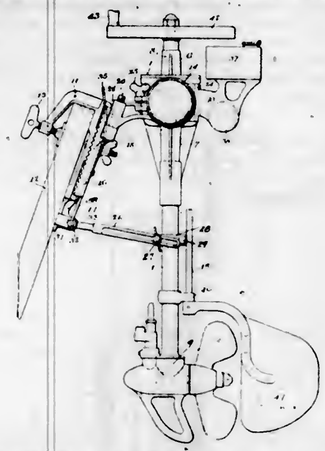


1. In a device of the character described, a button having a rearwardly projecting post adapted to extend through a coat lapel, a washer loosely sleeved upon said post, a chain secured to the washer, and means adapted to engage said post to secure the washer against dislodgment from the post.

1,389,712. MOTOR-PROPELLER FOR BOATS. ARTHUR N. THOMPSON, Milwaukee, and ALBERT P. KNAUBER, Wauwatosa, Wis., assignors to The Necedah Manufacturing Corporation, Necedah, Wis. Filed Aug. 7, 1920. Serial No. 401,875. 10 Claims. (Cl. 115—17.)

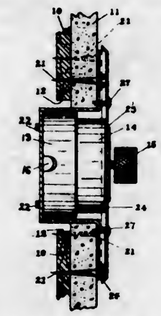
1. In a motor-propeller for boats the combination of an engine and mounting brackets each comprising a clamp

adapted to be detachably fastened to a boat and a member having a transverse pivot connection with the engine



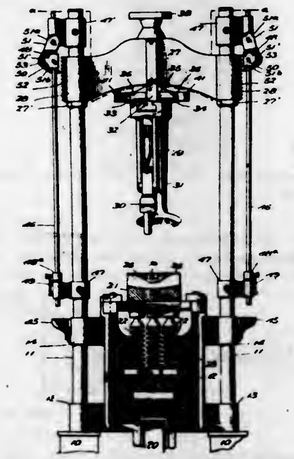
and a quickly detachable pin and socket connection with the clamp.

1,389,713. ELECTRICAL WALL-SWITCH. EMIL THOMPSON, Omaha, Nebr., assignor of one-half to Rangval Oleson, Omaha, Nebr. Filed Feb. 13, 1920. Serial No. 358,333. 1 Claim. (Cl. 200—166.)



In combination, a base plate of narrow construction adapted to extend diametrically across the base of a switch casing, narrow straps extending from said base plate and being bent at substantially right angles so as to lie along the upper and rear portions of the switch casing, said straps being made in one piece with the base plate and having their outer ends turned in opposite directions at right angles to the planes of the straps, wings made in one piece with the out-turned portions of said straps, said wings being extended to opposite sides of the straps and being provided with perforations therein, fastening means passing through the perforations and securing the wings to a support, said wings being provided at their lateral edges with forwardly over-turned flanges extending outwardly at substantially right angles to the planes of the body portions of the wings, the flanges of the upper and lower wings extending substantially in vertical alinement, and a cover plate fitted over and concealing the wings and straps and having its interior face adapted to come into contact only with said flanges, fastening means passing through said cover plate and engaged with the outwardly turned portions of said straps, said cover plate provided with marginal flanges bent rearwardly at an obtuse angle to the plane of the cover plate, the upper and lower flanges of the cover plate adapted respectively to engage the upper and lower ends of the flanges on said wings whereby to center the cover plate in a vertical direction and to guide the cover plate into place by the engagement of the obtuse flanges thereon with the upper and lower edges of the flanges on the wings, substantially as described.

1,389,714. SOLE-LAYING MACHINE. FELIX EMILE VALOIS, Haverhill, Mass., assignor to Hamel Shoe Machinery Company, a Corporation of Massachusetts. Filed May 6, 1918. Serial No. 232,739. 12 Claims. (Cl. 12—33.)



1. In a sole laying machine, in combination, a cross-head, a shoe-carrying jack provided with means for supporting the heel and toe portions of a shoe, and means for mounting said jack for pivotal adjustment upon said cross-head and about an axis adjacent the heel-supporting portion thereof on the opposite side of the cross head from said toe support portion.

1,389,715. MATTRESS. MOZES VAN GELDER, Chicago, Ill. Filed May 11, 1921. Serial No. 468,656. 4 Claims. (Cl. 5—13.)

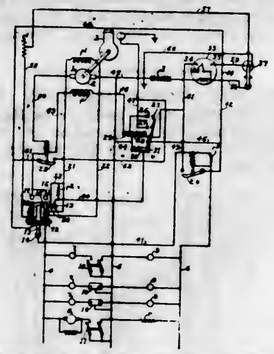


1. A mattress, comprising a suitable covering and a plurality of superposed layers of filling, the layers at both sides of the intermediate layers extending from end to end of the mattress, said intermediate layers extending from one end or the other to points between the respective opposite end and the transverse medial plane of the mattress.

1,389,716. ELECTRIC GENERATING SYSTEM. ROY M. VAN VLEET, Milwaukee, Wis., assignor to the Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed June 14, 1920. Serial No. 388,731. 18 Claims. (Cl. 290—30.)

2. In an electric generating system, in combination, a generator, an engine to drive said generator, a storage battery of lower voltage than said generator, translating circuits to be supplied by said generator and battery respectively, and means responsive to variations in the load on the battery and the condition of the battery to

effect starting of said engine for operation of said generator to supply its translating circuit, said means



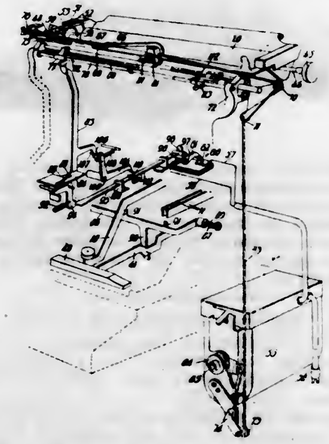
upon so responding also interrupting the battery translating circuit.

1,389,717. AUTOMOBILE ATTACHMENT. MAX VON BABO, Seattle, Wash. Filed Jan. 2, 1920. Serial No. 348,809. 3 Claims. (Cl. 188—16.)



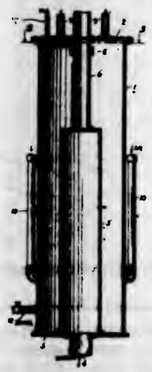
1. In combination, an operating lever, a connecting rod attached to the operating lever, brake operating means provided for each rear vehicle wheel, means connecting the brake operating means with the connecting rod and means for positioning the connecting rod so as to actuate, upon movement of the operating lever, either of the brake operating means or both.

1,389,718. TYPEWRITING-MACHINE. JOHN WALDHEIM, Elizabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 18, 1919. Serial No. 324,617. 15 Claims. (Cl. 197—66.)



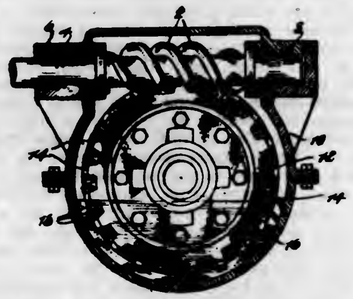
1. In a typewriting machine, the combination of a carriage, carriage-returning means, type-key-levers, a universal bar having projections thereon normally out of the path of actuation of said key-levers, means actuable by said carriage to render said universal bar effective by moving it laterally to bring the projections into the path of said key-levers, so that said universal bar may be actuated by said key-levers, and means whereby actuation of said universal bar will cause actuation of said carriage-returning means.

1,389,719. CARBURETER. SANDERS WALKER, Wichita Falls, Tex. Filed July 5, 1919. Serial No. 308,845. 1 Claim. (Cl. 257—58.)



A carbureter having an exterior casing, a substantially large tubular heater or vaporizer completely inclosed within said casing, an inlet pipe connected to said exterior casing and to the vaporizer to admit exhaust gases from an engine to the vaporizer, said vaporizer having its periphery smooth and extending from the bottom of the exterior casing to within a relatively short distance of the top thereof and connected to a tubular neck, said neck extending from the top of the vaporizer to and beyond the exterior casing and comprising an outlet for said exhaust gases, in combination with a collar on said neck, a feed pipe projecting within the exterior casing and disposed over said collar to admit liquid to be vaporized by its distribution over said collar, neck and vaporizer by the heat of said exhaust gases, means on the upper end of the exterior casing for carrying off the vapor formed, and annularly disposed pipes on the outside of the exterior casing in parallel relationship thereto for admission of air into the casing, and means for controlling the air.

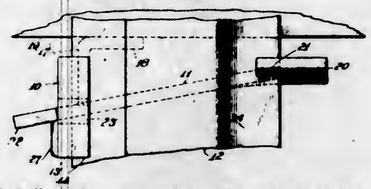
1,389,720. LUBRICATING MEANS AND PROCESS. CHARLES A. WARD, Mount Vernon, N. Y. Filed July 1, 1919. Serial No. 308,017. 7 Claims. (Cl. 74—36.)



1. The process of lubricating engaging or bearing surfaces, which consists in exposing at the engaging surface

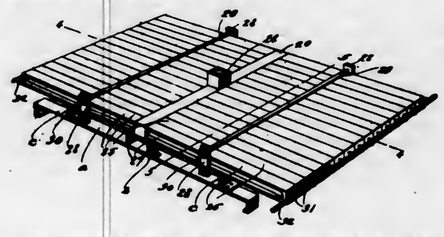
of one of the engaging parts individual masses of liquid lubricant otherwise confined, and overfilling the confining means between engaging operations.

1,389,721. RAIL-ANCHOR. HAROLD G. WARR, Park Ridge, Ill., assignor to the P & M Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 6, 1920. Serial No. 414,986. 29 Claims. (Cl. 238—329.)



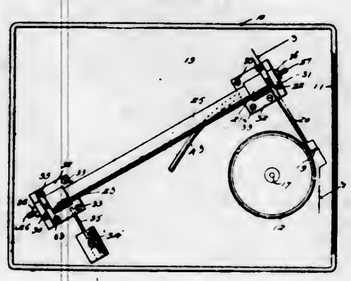
2. A rail anchor comprising a member having a jaw to engage the rail; said member being made of a piece of rolled metal having a configuration corresponding to the shape of said jaw.

1,389,722. MOLD FOR PLURAL CASTINGS. JOHN G. WEBB, Richmond, Va. Filed Jan. 5, 1920. Serial No. 349,386. 8 Claims. (Cl. 22—142.)



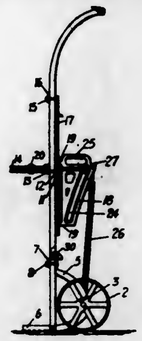
1. A composite mold comprising a runner brick having a plurality of outlet gates, and a plurality of mold members having each a plurality of like mold faces and associated with each gate and providing a mold form arranged to receive from that gate, the association of mold members at each gate including a like mold face of a mold member of another association.

1,389,723. MEASURING DEVICE. GEORGE L. WELLER, Elyria, Ohio. Filed Nov. 16, 1920. Serial No. 424,343. 8 Claims. (Cl. 234—20.)



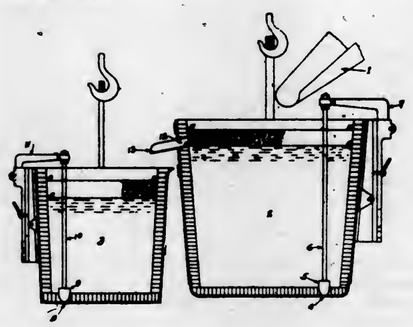
1. A meter including a rotating recording chart, a pen engaging the chart, a pen arm at one end of which the pen is supported, a counterweighted member oscillatably disposed in an inclined plane and to a portion of which said pen arm is connected, said member having spaced parallel mercury columns in communication at their lower ends, and pressure supply connections independently communicating with the upper ends of the mercury columns, as described.

1,389,724. TANK-TRUCK. BENEDICT E. WILLETT, nee Dayton, Ohio. Filed Apr. 23, 1920. Serial No. 375,958. 2 Claims. (Cl. 214—65.5.)



1. In a device of the type described, the combination with a hand truck body, of a pair of tongs pivotally secured to said body, a vertically movable handle member on the rear portion of said body, a cross piece loosely passing through a curved slot in said handle member, and links connecting said cross piece and said tongs, whereby when the handle member is moved in one direction, the tongs will be opened to receive the body portion of a tank, and when moved in the opposite direction, said tongs will be closed around the body portion of said tank.

1,389,725. METHOD OF POURING STEEL. ANDREW HUNTER WILLIS, Erie, Pa., assignor to National Foundry Company, Erie, Pa., a Corporation of Pennsylvania. Filed May 6, 1920. Serial No. 379,387. 5 Claims. (Cl. 22—209.)

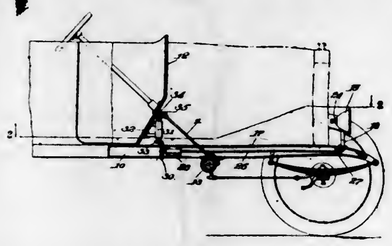


1. The method of pouring molten metal which consists in pouring the metal into one ladle and discharging a portion of the metal as it is poured from said ladle into a second ladle, retaining a portion of the slag in the first-mentioned ladle and delivering a portion of the slag to the second-mentioned ladle.

1,389,726. AUTOMOBILE-HEADLIGHT. CLARENCE G. WORLEY, Marietta, Ga. Filed Oct. 6, 1919. Serial No. 328,864. 2 Claims. (Cl. 240—62.)

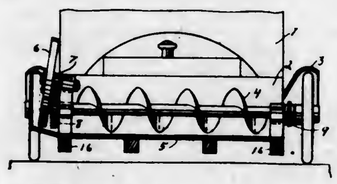
1. The combination with an automobile, of two headlights pivotally mounted on the frame of the automobile, a connection between the headlights whereby when one headlight is turned upon its pivot the other headlight will be turned, a shaft extending from each headlight through its post into the frame, means on one of said shafts for fastening the headlight in its post, means comprising a gear on the other shaft for fastening the head-

light in its post, a shaft mounted within the frame having a driving gear meshing with said first gear, a driven gear on the other end of said shaft, a shaft mounted in a bearing fastened to the dashboard having a driving gear



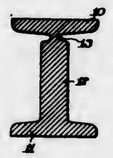
meshing with the last said gear and a driven gear meshing with a gear fastened on the steering post of the automobile whereby when the steering post is operated to turn the wheels the headlights will be correspondingly turned.

1,389,727. SNOWPLOW. CLARENCE W. YEITER, Alto, Mich. Filed Mar. 29, 1920. Serial No. 369,707. 2 Claims. (Cl. 37—57.)



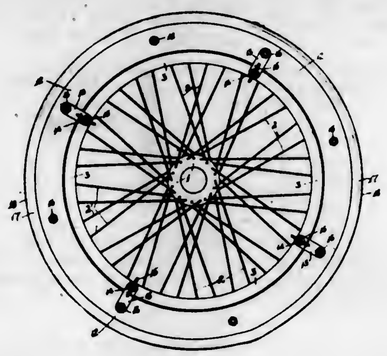
1. In a snow plow for use upon auto vehicles, a shovel mounted ahead of the vehicle and arranged to slide snow upwardly and backwardly as the vehicle advances, a crib mounted at the rear of the shovel laterally of the vehicle, a horizontally disposed revoluble spiral mounted longitudinally in the crib, means for revolving the spiral from the power that propels the vehicle, a spiral exhaust fan mounted at the discharge end of the crib at an incline upwardly from the longitudinal plane of the floor of the crib, and means for propelling said fan for exhausting snow from the crib and elevating it as it passes through the fan.

1,389,728. HINGE CONNECTION. NICHOLAS W. AKIMOFF, Wynnewood, Pa., assignor to General Machinery Foundations Company, Philadelphia, Pa., a Corporation of Delaware. Filed Aug. 12, 1920. Serial No. 403,120. 3 Claims. (Cl. 74—104.)



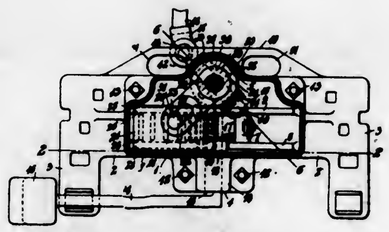
3. A new article of manufacture comprising a rolled metal shape having attaching members, and a web portion connecting said attaching members, said web portion being in the main relatively heavy, but having a reduced portion of small linear dimension forming a fulcrum for angular motion of parts to which the shape is attached.

1,389,729. WHEEL AND RESILIENT TIRE FOR ROAD-VEHICLES. WILLIAM ALDERSON, Kimberly, Cape of Good Hope, South Africa. Filed Nov. 29, 1920. Serial No. 427,171. 2 Claims. (Cl. 152—10.)



1. In a wheel and a resilient tire therefor, the combination with a rim portion of the wheel of a retaining ring fixed to one side of the rim, clamping means detachably connected to the rim at the other side of said wheel, a second retaining ring detachably secured to the clamping means and the first-mentioned retaining ring, an inner resilient tube placed around the rim and between said retaining rings, and an outer and concentric compound resilient tube embodying curved reinforcing medial plates, said plates being staggered or so disposed that the gaps formed between their ends are placed at different points within and around the compound resilient outer tube, as set forth.

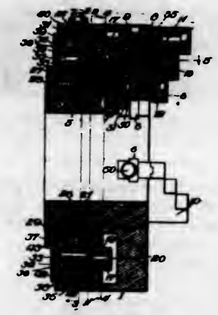
1,389,730. SWITCH-STAND. FRANK C. ANDERSON, Cincinnati, Ohio. Filed Mar. 3, 1921. Serial No. 449,401. 17 Claims. (Cl. 246—411.)



11. In a switch-stand, a base having a bearing for a crank on an upright axis, and having a projection past said bearing to retain connecting means in a crank mounted in said bearing.

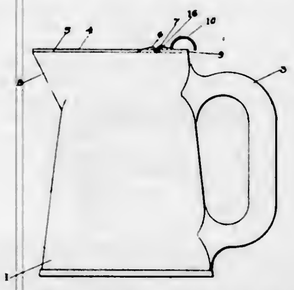
1,389,731. CHUCK. WENDELL A. BARKER, Elkhart, Ind. Filed July 5, 1919. Serial No. 308,888. 4 Claims. (Cl. 279—114.)

1. In a chuck, the combination of a rotatable chuck body, jaws movable radially therein, levers pivoted at one end on said chuck body and articulated intermediate their ends to said jaws, cam means concentric with said body and normally rotating at the same speed and in the same direction with the latter and operating on said levers at their other ends to swing said levers in both directions,



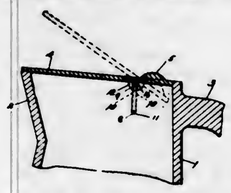
and means for rotating said cam means relatively to said chuck body while the latter is rotating, to effect actuation of said levers.

1,389,732. SANITARY PITCHER OR THE LIKE. CHARLES S. BARON, Tiffin, Ohio. Filed Apr. 16, 1917. Serial No. 162,344. 1 Claim. (Cl. 65—31.)



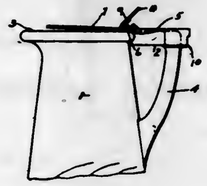
The combination with a receptacle provided upon opposite sides of its open end with bearings, and an upward elongation of the rear wall of the receptacle between said bearings, of a removable tilting lid provided with members for removably engaging said bearings and completely closing the open end of the receptacle by resting upon the forward edge of the open end and by an edgewise engagement of the lid with the elongated rear wall between said bearings, said lid having an upwardly and downwardly curved thumb piece projecting over the elongated edge of the receptacle thereby serving as a means both for actuating and limiting the tilting movement of the lid.

1,389,733. SANITARY PITCHER OR THE LIKE AND MEANS FOR CONNECTING THEIR COVERS THERETO. CHARLES S. BARON, Tiffin, Ohio. Filed May 25, 1918. Serial No. 236,480. 3 Claims. (Cl. 65—31.)



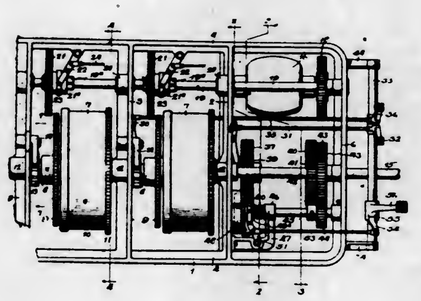
1. The combination with a receptacle provided upon opposite sides of its open end with bearings and with sockets below the same, respectively, of a lid provided with lugs working as hinge members in said bearings, and a resilient pintle, provided, with a back bone engaging said lid, with side pieces, and with terminals adapted to engage said sockets for the purpose specified.

1,389,734. LIQUID-CONTAINER HAVING SEPARABLE TOP. CHARLES S. BARON, Tiffin, Ohio. Filed May 31, 1919. Serial No. 301,050. 1 Claim. (Cl. 65—31.)



The combination with a container provided with a projecting member, of a removable top comprising a securing extension thereon detachably fitting over and slidable longitudinally of said member to form a slip-joint therewith, said extension tightly fitting said member and having portions depending from the top surface of said member and relatively rigid with relation thereto snugly engaging the same along not less than four planes of contact to thereby effectively resist strains tending to displace the top.

1,389,735. PROPELLING MECHANISM FOR VEHICLES. JOSEPH R. BROACH, Chicago, Ill. Filed Mar. 7, 1921. Serial No. 450,269. 7 Claims. (Cl. 185—40.)

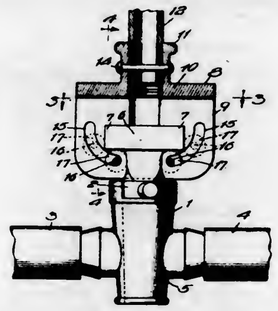


1. A propelling mechanism comprising a plurality of spring actuated motors, each including a driven gear wheel, means for winding said motors, a drive shaft, gear wheels slidably mounted on said shaft, shifting mechanism for said sliding gear wheels, and means for locking the driven gear wheel of each motor when its associated gear wheel is shifted out of engagement therewith.

1,389,736. WRENCH FOR STOP AND WASTE COCKS. EDWARD C. BUEHLER, Chicago, Ill. Filed Apr. 15, 1921. Serial No. 461,736. 4 Claims. (Cl. 81—121.)

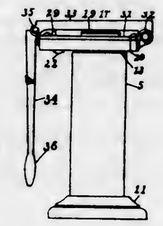
1. A socket wrench adapted to be placed upon a valve having a T-head, the socket being provided with slots at

each end, movable members in the slots adapted to be spread apart by the T-head as the wrench is applied and



adapted to drop inwardly beneath the ends of the T-head to prevent the free removal of the wrench.

1,389,737. VEHICLE-JACK. WILLIAM E. BURROWS, St. Joseph, Mo. Filed Apr. 3, 1920. Serial No. 371,046. 2 Claims. (Cl. 254—102.)



1. In a three-section jack; an upper section a middle section and a lower section of tubular formation the last mentioned section having holding notches formed in its lower end said upper section having spline channels formed longitudinally in its inner surface, said upper section being telescoped into said middle section while the last mentioned section is telescoped into said lower section; a base in which the lower end of said lower section is secured, said base having a shoulder formed therein; a disk having a square aperture formed through the center thereof; a plurality of holding lugs formed on the periphery of said disk, said lugs being in said notches for holding said disk against rotation; a holding rod having a square portion formed thereon; rod securing means whereby said rod is secured on said disk with said square portion in said square aperture; a plurality of spline keys secured in the upper end portion of said rod extending therebeyond; a holding sleeve having a like plurality of spline channels formed longitudinally in its inner surface, the extended portions of said keys being in said channels; and a plurality of other spline keys secured in the upper end portion of said sleeve said other keys extending therefrom into the spline channels of said upper section of said jack; the whole forming slidably splined holding means whereby said upper section is held against rotation.

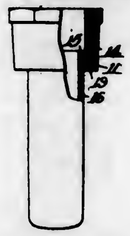
1,389,738. GRINDING-WHEEL CHUCK. CALVIN E. CADMAN, South Beloit, Wis. Filed July 19, 1920. Serial No. 397,193. 6 Claims. (Cl. 51—209.)

1. A grinding wheel chuck, comprising a body adapted to receive a grinding wheel, said body being provided with an internal groove, a split ring disposed in said groove, and means acting on said ring for forcing the same into



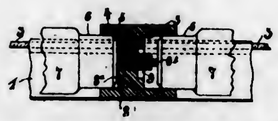
clamping relation with the perimeter of a grinding wheel disposed within said body.

1,389,739. METHOD OF FORMING A PRESSED METAL ARTICLE. HJALMAR G. CARLSON, Worcester, Mass., assignor, by mesne assignments, to Rockwood Sprinkler Company of Massachusetts, Worcester, Mass., a Corporation of Massachusetts. Filed Sept. 17, 1918. Serial No. 254,481. 7 Claims. (Cl. 29—156.)



1. The method of making an article having a hollow closed end and a double-walled open end, which consists in drawing out a flat blank of cold drawn sheet stock into an elongated tubular shape with one end closed and reduced in thickness and the other end having a circular flange surrounding it, then reducing and elongating the closed end only of the blank by a series of steps, and finally turning over the flange so as to envelop the adjacent wall of the blank.

1,389,740. SOCKET FOR TUBULAR LAMPS. MARC CHALIER, Paris, France. Filed July 10, 1914. Serial No. 850,186. 1 Claim. (Cl. 173—337.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

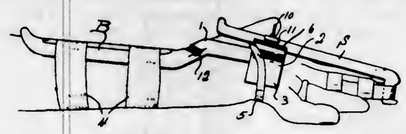


A solid socket made of one piece of insulating material adapted to be positioned in a channel forming foot-lights, said socket having recesses in its ends to support tubular lamps, a metallic bushing extending longitudinally through said socket and having a flat head located in one of said recesses and a yieldable plunger contained therein and extending into the other recess, a tightening nut located in a cavity of this recess and threaded on the bushing to fix the latter in position, an opening in said socket leading into said cavity of the recess containing said nut, which holds the end of one of the leads or electric wires intended to supply current and passing through said opening to said cavity of the recess, the other end of the wiring being connected to the conducting wire arranged in a groove at one edge of said channel.

1,389,741. SURGICAL SPLINT. ARTHUR LAMBERT COTTON, Sayre, Pa. Filed Sept. 25, 1920. Serial No. 412,680. 4 Claims. (Cl. 128—85.)

1. A device for imposing traction on a fractured digit comprising an elongated body adapted to snugly contact

with an extremity of the human body and provided with guides positioned adjacent the inner ends of the digits of an extremity of the human body to which the device is applied, and a splint adjustably connected with the body

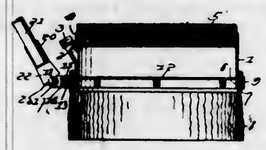


and extending lengthwise of and terminating in advance of the digit to be treated, the forward end portion of the splint being provided with a member overlying the tip of said digit.

1,389,742. COLORED IMAGE AND PROCESS OF PRODUCING THE SAME. JOHN I. CRABTREE, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed May 2, 1919. Serial No. 294,343. 21 Claims. (Cl. 95—88.)

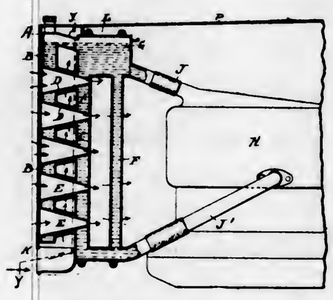
1. The process of producing a colored image from a photographic image, which consists in replacing at least a part of the original photographic image by an iron toned image and mordanting a suitable dye to the toned image.

1,389,743. FOUNTAIN FLOOR AND FURNITURE POLISHER. MARLIN CRONER, Klemme, Iowa. Filed Feb. 7, 1920. Serial No. 356,963. Renewed Feb. 12, 1921. Serial No. 444,540. 1 Claim. (Cl. 15—13.)



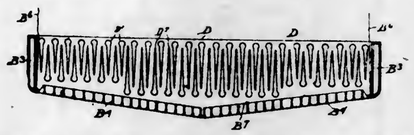
In a floor and furniture polisher, the combination with a head having a marginal flange on one face thereof, of a rub cloth engaging said flange, a clamping band engaging around said rub cloth, and means passing through the clamping band and the flange and through the mop to secure the parts together, said clamping band having opposed end parts, means passing through said parts to draw them together, said parts beyond the means terminating in ears, and a handle receiving socket pivotally mounted upon said ears.

1,389,744. RADIATOR. EDWARD T. CURRAN, Detroit, Mich. Filed Aug. 5, 1918. Serial No. 248,261. 2 Claims. (Cl. 257—125.)



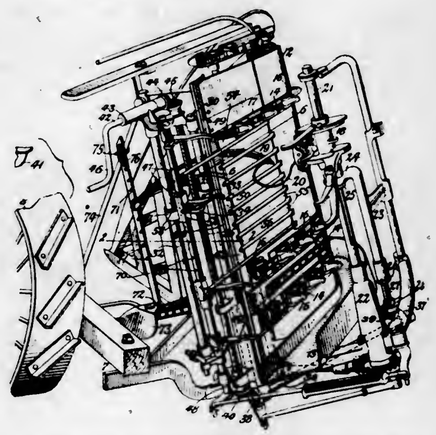
1. In a radiator, the combination of two water receptacles connected by forwardly directed conical air pipes, each having a circumferential water jacket forming a communication between said receptacles, in combination with a third receptacle located so as to present a surface in the line of travel of the jets of air passing from said pipes, substantially as described.

1,389,745. AIRPLANE-RADIATOR. EDWARD T. CURRAN, Detroit, Mich. Filed Nov. 18, 1918. Serial No. 262,951. 1 Claim. (Cl. 257—130.)



In a radiator, a series of water tubes formed with a beaded edge on one side thereof, the other edge being united by welding, the two plates being wider apart at the beaded edge than at the welded edge, the alternate tubes being arranged oversely so that the welded edge of one would be opposite the beaded edge of the adjacent one and the beaded edge opposite the welded edge, substantially as described.

1,389,746. HARVESTER. GEORGE A. FARRALL and CHRISTIAN MAUL, Batavia, N. Y., assignors to Massey-Harris Harvester Company, Inc., Batavia, N. Y., a Corporation of New York. Filed June 10, 1919. Serial No. 303,183. 9 Claims. (Cl. 56—70.)

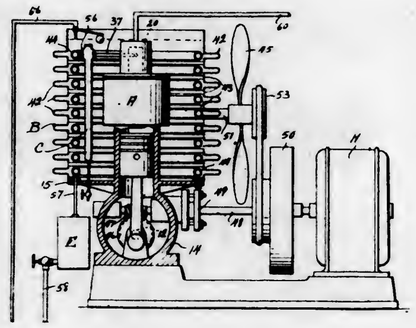


1. A harvester comprising a binder deck the rear end or delivery portion of which has the form of a plurality of spaced longitudinal tines which are fixed only at their front ends while their rear ends are free, and a tying mechanism including a knotter arranged in front of said tines and a needle coöperating with said knotter and mounted in rear of said tines and movable transversely and perpendicular to the plane of said deck.

1,389,747. REFRIGERATING-MACHINE. PHILIP FISCHBACHER, Quincy, Ill., assignor to American Sanitary Refrigeration Co., Owensboro, Ky., a Corporation of Delaware. Original application filed July 30, 1919, Serial No. 314,222. Divided and this application filed July 12, 1920. Serial No. 395,490. 5 Claims. (Cl. 62—115.)

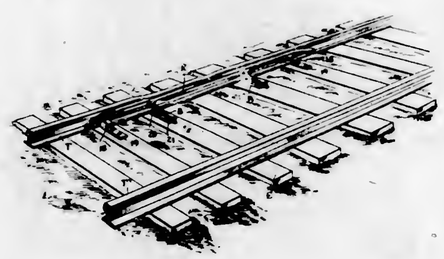
1. In a refrigerating compressor, a compression cylinder and means for condensing a refrigerating agent

ejected from the cylinder comprising a jacket surrounding the cylinder and adapted to contain cooling liquid, a cooling coil disposed within the jacket and into which the



refrigerating agent from the cylinder is discharged, said jacket having transversely extending pipes of relatively thin metal opening at their outer ends upon the outside of the jacket.

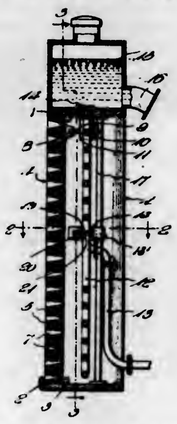
1,389,748. CIRCUIT-CONTROLLER FOR TRAIN-CONTROL APPARATUS. JOHN G. FISHER, Fairfax county, Va., assignor of one-half to Frank M. Fisher, Paducah, Ky. Filed May 27, 1921. Serial No. 473,068. 8 Claims. (Cl. 246—255.)



1. A circuit controller comprising a wheel adapted to be insulated from a car, and a contact rail supported for movement and yieldingly urged to a predetermined position, said rail being adapted to normally occupy such a spaced position with respect to a track rail so as to be engaged and held in contact with the flange of said wheel during movement of the latter over the track rail whereby the flange is caused to have rotating contact with the contact rail to provide a good electrical contact between the two and to remove foreign matter from the contact surfaces of the two.

1,389,749. AUTOMOBILE-RADIATOR. OLOF FROBERG, Benton Harbor, Mich. Filed Nov. 17, 1919. Serial No. 338,415. 2 Claims. (Cl. 257—125.)

1. In an automobile radiator, a frame, water conducting means in said frame, a screen in said frame in front of said water conducting means and having vertical and transverse strips providing passages of substantially an even diameter for the depth of the screen, and tubes



mounted in the air passages and tapering inwardly toward the water conducting means.

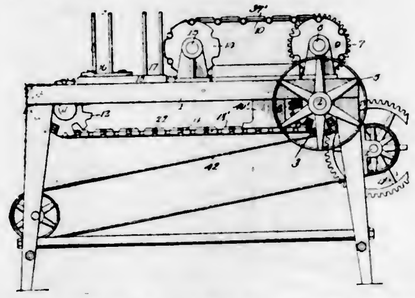
1,389,750. ELECTROLYTE FOR STORAGE BATTERIES. WILLIAM GARDINER, Chicago, Ill., assignor, by mesne assignments, to D-G Storage Battery Co., Chicago, Ill., a Corporation of Delaware. Filed Aug. 22, 1918. Serial No. 250,971. 1 Claim. (Cl. 204—29.)

An electrolyte for storage batteries including a mixture of powdered glass and an acid solution.

1,389,751. METHOD OF REMOVING ACCRETIONS. SAMUEL RICHARD GARR and RALPH F. BARKER, Garfield, Utah, assignors to American Smelting & Refining Company, a Corporation of New Jersey. Filed June 22, 1917, Serial No. 176,276. Renewed Jan. 15, 1920. Serial No. 351,555. 6 Claims. (Cl. 266—43.)

6. In the art of removing accumulations from metallurgical furnaces, the method which consists in introducing into the furnace while still hot a charge of crude oil as long as the accumulations absorb the oil and then restoring the furnace to its active normal operative condition.

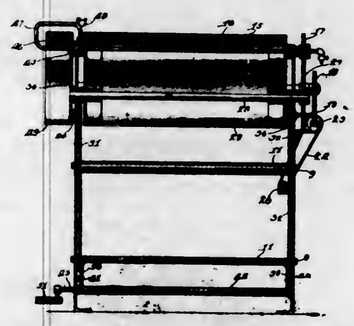
1,389,752. CAN-END-LINING MACHINE. CHARLES W. GRAHAM, Crestwood, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Apr. 17, 1916. Serial No. 91,740. 27 Claims. (Cl. 113—80.)



1. In a machine for placing can end liners onto the flanges of shouldered can ends for forming interfolded

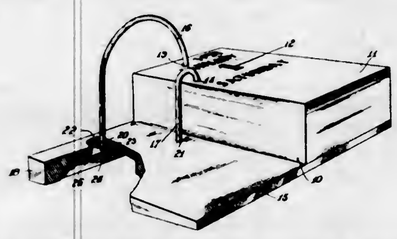
hermetic joints with flanged can bodies, in combination: a continuously movable hinged member adapted to receive a can end and a can end liner, and having means for holding same in spaced assembling relation, and continuously moving assembling mechanism mounted separately from said hinged member, whereby the said liner is passed along the shoulder of said can end onto the flange thereof; and means for discharging the lined can end.

1,389,753. IRONING-MACHINE. AXEL R. GUSTAFSON, Chicago, Ill. Filed July 10, 1920. Serial No. 395,267. 5 Claims. (Cl. 68—9.)



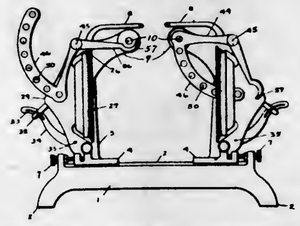
4. In an ironing machine, the combination of a stationary frame, a main heated member mounted within said frame, an auxiliary heated member rigidly connected to said main heated member and supported at one end only outside said frame, a pair of levers fulcrumed on said frame, a main padded roll carried by said levers within the frame, an auxiliary roll rigidly attached to said main padded roll and supported at one end only outside said frame in cooperative relation to said auxiliary heated member, a single power means for rotating the main heated member and its auxiliary heated member, and the main padded roll and its auxiliary roll, and means for actuating said levers to move said main and auxiliary rolls as a unit toward and from their respective heated members.

1,389,754. CALENDAR-PAD AND HOLDER THEREFOR. FRANK A. HALE, Chicago, Ill., assignor to Hale Specialty Company, Chicago, Ill., a Corporation of Illinois. Filed June 23, 1920. Serial No. 390,989. 4 Claims. (Cl. 40—120.)



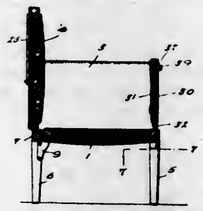
1. A memorandum calendar pad comprising a series of separate relatively long and narrow leaves of uniform size each printed with calendar information adjacent one end and having a pair of filing apertures, one in a side marginal portion of the leaf at a substantial distance from the said printed end of the same but at a greater distance from the other end of the leaf, and the other filing aperture being in a marginal portion of the leaf at the said printed end of the same but at a substantial distance from the side edge of the leaf along which the first separately mentioned aperture is located whereby a major portion of the length of each leaf remote from the said printed end is clear for the entry of memoranda thereon.

1,389,755. EYE-TESTING INSTRUMENT. FREDERICK HAMILTON, Providence, R. I., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts. Filed Apr. 22, 1919. Serial No. 291,896. 16 Claims. (Cl. 88—22.)



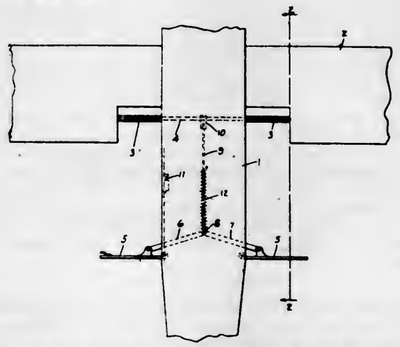
1. An eye testing instrument, including a rotatable carrier, a series of lens holding rings loosely supported within the carrier, and means for selectively ejecting the lens from the carrier as desired.

1,389,756. CONVERTIBLE FURNITURE. TIMOTHY HANLEY, East Norfolk, Mass. Filed Nov. 29, 1920. Serial No. 427,077. 5 Claims. (Cl. 5—47.)



2. A piece of convertible furniture comprising a frame, a reversible seat carried thereby, an extension hinged to the underside of said seat and including a pair of hingedly connected sections, means for securing said sections in an upright position to form one side of a crib and means to secure said sections at right angles to each other.

1,389,757. AIRPLANE-BRAKE. CALEB V. HAYNES, Indianapolis, Ind. Original application filed Sept. 20, 1919, Serial No. 325,222. Divided and this application filed Nov. 2, 1920. Serial No. 421,310. 4 Claims. (Cl. 244—29.)



1. Means for retarding the flight of air ships comprising braking surfaces hinged to parts of the air ship, and

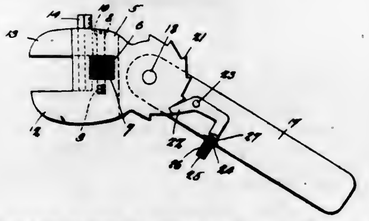
movable against the air pressure, pressure operated means also hinged to parts of the air ship in the rear of said braking surfaces, and movable with the air pressure, and links connecting said braking surfaces to said pressure operated parts, whereby when said pressure operated means moves to open position the braking surfaces will be automatically moved to braking position against the air pressure.

1,389,758. STUD FOR SNAP-FASTENERS. GEORGE A. HOLMES, Newton Center, Mass., assignor to United States Fastener Company, a Corporation of Maine. Filed July 1, 1920. Serial No. 393,356. 1 Claim. (Cl. 24—219.)



A stud member of a snap fastener, composed of a screw having a head which is approximately hemispherical on its upper surface and plane on its lower surface, and a base and filling piece secured on the shank of the screw, the base portion of which constitutes a flange projecting from the shank of the screw, and the filling portion of which extends from the inner edge of said flange to the outer edge of the screw head, and constitutes with said screw head an approximately spherical stud proper, which coöperates with a resilient socket member.

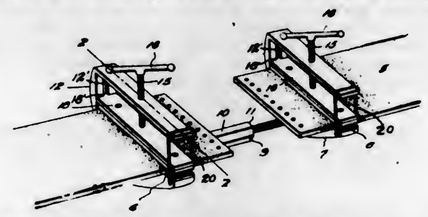
1,389,759. RATCHET-WRENCH. SIRENO E. HUFF, Greeley, Colo. Filed Apr. 13, 1920. Serial No. 373,468. 1 Claim. (Cl. 81—59.)



In a ratchet wrench, a head having concaved sides and an opening in the concaved portions of the sides forming a seat for a screw, a pin lying in the said head and extending through the opening on which the screw is rotatably mounted, a jaw formed integral with the said head, the said jaw having a way therein extending from one edge, a bar having a flat outer surface slidable in the said way and having teeth, the said way intersecting the opening in the head to permit the screw to engage the teeth of the bar, a movable jaw carried by the said bar, the said head having a bifurcated rear section, the edges of the said rear section having ratchet teeth thereon, a handle extending into the bifurcated section of the head, a pin on which the said handle is oscillatably mounted, a dog on each side of the handle, means for pivotally connecting the said dog to the handle whereby the noses of the dogs are in operative relation to the ratchet teeth, a device connecting the said dogs to form a yoke, and a spring for urging the noses of the dogs toward the ratchet teeth.

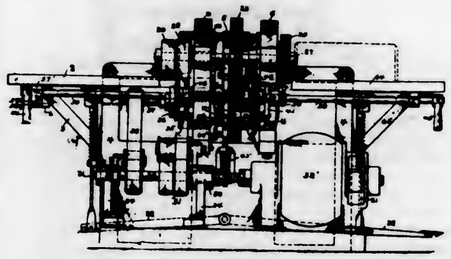
1,389,760. BELT TIGHTENER AND LACER. CLIFFORD S. HUMBERT, Scobey, Mont. Filed Mar. 1, 1920. Serial No. 362,290. 2 Claims. (Cl. 254—54.)

1. Two members including a fixed jaw on which a belt end is designed to rest, and means between the members for moving the same toward each other, the fixed jaw having an upstanding portion at one end thereof and a spring arm extending laterally therefrom and overlying



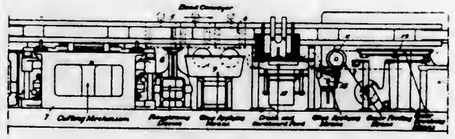
the said fixed jaw, a bail carried by the fixed jaw and designed to swing over the spring arm for forcing the same toward the jaw, a screw threaded through the arm, and a movable jaw swiveled to the screw.

1,389,761. PLATE FINISHING AND COOLING MACHINE. ROBERT T. JOHNSTON, Scotch Plains, N. J., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed Sept. 6, 1918. Serial No. 252,888. 11 Claims. (Cl. 29—21.)



1. In a stereotype plate finishing machine, the combination of a finishing cylinder, means for driving the cylinder, means for disconnecting the driving means after a partial revolution, means for locking the cylinder against rotation, and manually operated means for breaking the lock and throwing the power operating means into operation.

1,389,762. BOOK COVERING AND BINDING MACHINE. CHARLES A. JUENGST, Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn., a Corporation of Delaware. Filed Nov. 11, 1919. Serial No. 337,159. 14 Claims. (Cl. 11—4.)



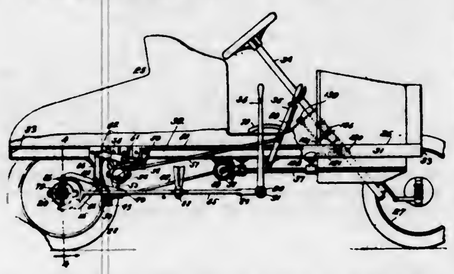
2. A binding and covering machine comprising: a book conveyer including a plurality of clamps for supporting books in an upright position, and binding and covering means located adjacent to the path of the book conveyer including: means for applying glue to the back of the book, means for applying a strip of crash and a cardboard blank to the glued back of the book, with the crash intermediate the book and cardboard, cover feeding and applying means for pressing a cover into contact with the cardboard on the book, means for applying glue to the cover before it reaches the cardboard on the book, and cover breaking means.

1,389,763. SPINNER. CHARLES H. KEWELL, San Francisco, Calif. Filed Sept. 10, 1919. Serial No. 323,014. 2 Claims. (Cl. 43—45.)



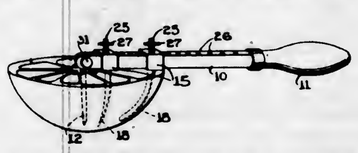
1. In a spinner a spoon, water-proofed material integrally formed to resemble a plurality of roundish eggs of various sizes, and having a central opening therethrough, and being within the wall of said spoon, a shaft extending through said central opening, and an outwardly tapered sleeve upon said shaft at each end of said material and secured thereto.

1,389,764. MOTOR-VEHICLE. SEYED KHALIL, Newark, N. J., assignor of forty-five per cent. to Isador Stern, Newark, N. J. Filed July 23, 1920. Serial No. 398,475. 9 Claims. (Cl. 180—18.)



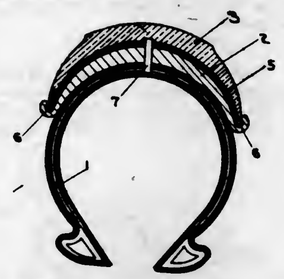
1. In a motor-driven vehicle having an engine shaft, a main supporting frame, front and rear wheels, a rear axle in sections for said rear wheels and a steering rod, in combination, for each axle section, an oscillatory link having an adjustable saddle, means for oscillating said link from the engine shaft, means for positioning said saddle along said link to vary the speed of the vehicle, oppositely disposed links pivotally connected at their forward ends with said saddle, sleeves on the rear axle section respectively pivotally connected with the read ends of said links and adapted for reverse oscillatory rotation therefrom, means for alternately engaging said sleeves with the axle-section for rotating the same, manually operative means for setting said engaging means to cause the movement of said sleeves to rotate said axle-section in either direction to vary the direction of travel of the vehicle, and means for adjusting said saddle to cause said link to impart a differential motion to the axle section when desired.

1,389,765. RIND CUTTER AND CORER FOR CITRUS FRUIT. MICHAEL KROTA, Holyoke, Mass. Filed Mar. 19, 1921. Serial No. 453,630. 5 Claims. (Cl. 146—6.)



1. A device of the class described, comprising a bar, a pivot pin on one end of said bar, a pair of knives carried by said bar, and means for securing said knives to said bar in adjusted positions longitudinally thereof, and means for varying the angular relation of said pivot pin with said bar.

1,389,766. VEHICLE-TIRE. GEORGE W. C. LOMB, Covington, Ky. Filed June 16, 1919. Serial No. 304,564. 1 Claim. (Cl. 152—33.)



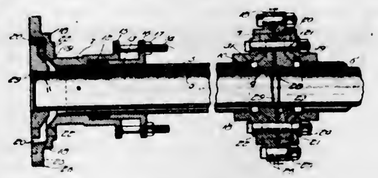
A tire protector for pneumatic tires comprising in combination with a pneumatic tire, a metal rim of arc-shape in cross section, and of a size to cover less than the half circle of said tire, said rim having rolled edges to form a channel protected at the sides, and a cushioned tread for said metal rim comprising a vulcanized fabric body and wire reinforcements at the edges of said body, said wire reinforced portions of the body being adapted to seat in and be protected by said channel and a solid rubber facing for the vulcanized fabric, said facing terminating short of the wire reinforced portion, whereby it does not extend into the channel.

1,389,767. ARCH-SUPPORTER. WALTER M. LUDWIG, Boston, Mass., assignor, by direct and mesne assignments, to Federal Arch-Lift Manufacturing Company, a Corporation of Massachusetts. Filed Aug. 4, 1920. Serial No. 401,199. 8 Claims. (Cl. 128—266.)



1. An arch support comprising a bandage of flexible material to embrace the arch and instep portion of the foot, means for adjusting said bandage and an adjustable supporting member connected to said bandage opposite the sides of the foot, and extending around the ankle to embrace the Achilles tendon.

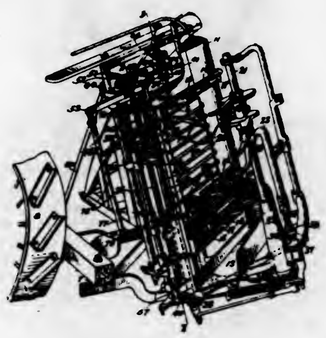
1,389,768. FLANGED COUPLING FOR DOUBLE-PIPE CONDUITS. OWEN D. MCFARLAND, Chicago, Ill., assignor to Guyton and Cumfer Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed May 9, 1919. Serial No. 295,823. 2 Claims. (Cl. 285—22.)



2. A flange coupling for a double pipe conduit, providing in combinative association, two like flange coupling members, each member having a pair of longitudinally extending openings for two different size pipes; a series of concentrically arranged bolt holes between said openings, and

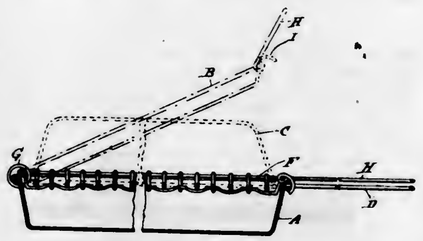
another similar series of bolt holes, outside of the openings to receive bolts, to connect adjacent coupling members together; a gasket, between the flange members and a batten ring in the inner conduit bridging the space containing the gasket.

1,389,769. HARVESTER. CHRISTIAN MAUL, Batavia, N. Y., assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y., a Corporation of New York. Filed Oct. 14, 1919. Serial No. 330,550. 7 Claims. (Cl. 56—70.)



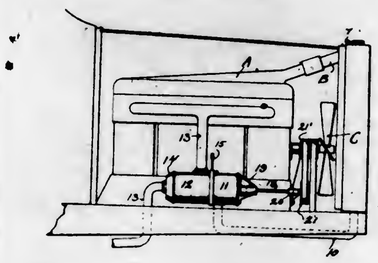
1. A harvester comprising a binder deck, a bundle tying mechanism, means for adjusting said tying mechanism transversely and parallel with the plane of said deck, including a driven shaft, a power mechanism including a driving shaft, an intermediate shaft, a pair of intermeshing gear wheels connecting said intermediate shaft and driven shaft, and means for operatively connecting said driving shaft and intermediate shaft including a driven gear wheel arranged on the intermediate shaft, a sleeve splined on the driving shaft and provided with two driving gear wheels adapted to engage with opposite sides of said driven gear wheel, and means for shifting said sleeve comprising a lever operatively connected with said sleeve, and means for holding said lever yieldingly in its neutral position.

1,389,770. COOKING UTENSIL. MINNIE M. MAY, Evansville, Ind. Filed Sept. 24, 1920. Serial No. 412,491. 3 Claims. (Cl. 53—5.)



1. A cooking utensil comprising a pan having an imperforate bottom and inclosed sides, and a handle therefor, a woven wire frame hinged to the pan having edges adapted to rest on the upper edges of the pan and a flat bottom adapted to extend into the pan below the upper edges thereof, a handle for said wire frame and means on said handle adapted to coöperate with the pan for fastening the members together.

1,389,771. TEMPERATURE CONTROL FOR RADIATORS. EDWIN E. MELLENTHIN, Waukesha, Wis. Filed Feb. 10, 1921. Serial No. 443,942. 1 Claim. (Cl. 123—174.)



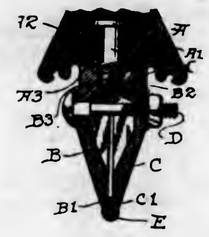
In a temperature controlling apparatus for water cooled engines having a spent gas exhaust pipe and a radiator provided with jacketed upper and lower heads connected by jacketed water channels, there being an air space between the jacketed parts and a vent for the air space; the combination of a drum having a heating compartment incasing a portion of the engine exhaust pipe and an open ended air intake end, a valve for regulating communication between the air intake end and the heating end of the drum, a motor driven fan mounted in the air receiving end of the drum, and a pipe in communication with the air intake end of said drum and air space about the radiator parts, whereby air from the drum at predetermined temperatures may be positively forced about the water circulating system of the radiator.

1,389,772. FOUNTAIN-PAINTBRUSH. FREDRICK J. MILLER and ARTHUR H. MILLER, Silver City, Iowa. Filed Apr. 28, 1920. Serial No. 377,248. 2 Claims. (Cl. 91—39.)



2. A fountain paint brush comprising a paint brush having flexible tubing to which paint is conveyed through a flexible hose, said flexible hose being connected to a paint container, said paint container being formed from a pliable material and provided with means whereby the container may be suspended from the body of the operator and means for compressing said container, said means comprising plates engaging each side of the container and springs arching the container and having their arms pivotally connected to the plates.

1,389,773. TROLLEY-WIRE SUPPORT. HENRY L. MILLER, Knoxville, Tenn. Filed Dec. 5, 1919. Serial No. 342,618. 4 Claims. (Cl. 191—43.)



1. In a support of the nature described, the combination of a pair of jaws having their lower edges adapted to grip a wire, and one of said jaws being formed for attachment to a superposed member and having a single lateral extension and the other jaw having a socket to receive said extension, whereby a semi-universal joint is formed, and means located below said extension and socket and acting horizontally, for drawing said jaws toward each other, substantially as described.

1,389,774. CONE-BAKING MACHINE. WILLIAM E. MOORE, Chicago, Ill., assignor to Angus Henderson, Chicago, Ill. Filed Feb. 7, 1919. Serial No. 275,641. 28 Claims. (Cl. 107—66.)

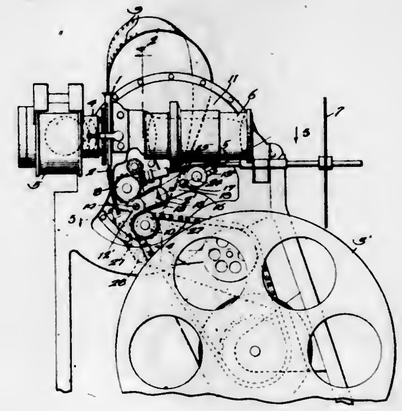


6. A machine for making pastry cups comprising a table, a plurality of molds carried thereby, a head, a plurality of plungers for shaping the interior to the cups carried by the head for coöperation with the molds, a rotatable shaft, a crank carried by the shaft, a pivotal mounting for one side of the head, a connection between the pivotal mounting and crank, a second crank carried by the shaft and a link connecting the second crank with the head at a point spaced from the pivotal mounting.

10. A machine for making pastry cups comprising a mold, a plunger for shaping the interior of the cup movable with respect thereto, a plate having an aperture registering with the peripheries of the mold at its top, and movable with respect to the mold, a second plate having an aperture registering with the plunger and mavoble with respect thereto and means for simultaneously moving the two plates with respect to the mold and plunger for shearing the edges of the cup while the plunger is in the cup.

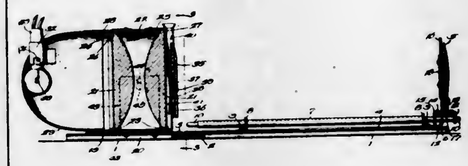
1,389,775. PICTURE-PROJECTION APPARATUS. ALBERT B. MUELLER, Chicago, Ill. Filed Nov. 7, 1917. Serial No. 200,690. 2 Claims. (Cl. 88—17.)

1. Picture projection apparatus including a reel carrying a picture bearing film; a pinion structure in mesh with the film; idler rollers between which the pinion structure is disposed, and which rollers are near said pinion structure to maintain the film in mesh therewith; a mounting for said rollers which is movable from its normal position to separate the rollers from the pinion structure; a spring for moving said mounting; and a



latch for holding the mounting against the action of the spring.

1,389,776. PICTURE-PROJECTION APPARATUS. ALBERT B. MUELLER, Chicago, Ill. Filed Jan. 17, 1919. Serial No. 271,555. 1 Claim. (Cl. 88—26.)

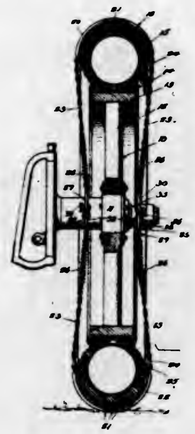


A stereopticon including a condensing lens structure; a lamp housing; a slide holder; a projection lens; a base plate upon which the aforesaid condensing lens structure, lamp housing and slide holder are mounted; a pair of rods extending longitudinally of the stereopticon upon which the projection lens is mounted; a pair of sleeves in telescoping engagement with said rods; another base plate in which said sleeves are mounted; and a third base plate supporting the aforesaid base plates that have sliding engagement with the third base plate longitudinally of the stereopticon.

1,389,777. NON-SKID TIRE ATTACHMENT. CATHARINE D. MULERTZ, San Francisco, Calif., assignor of one-half to Loyd R. Taylor, Modesto, Calif. Filed May 12, 1920. Serial No. 380,849. 1 Claim. (Cl. 152—16.)

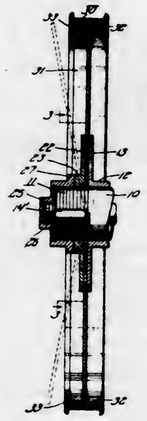
In a device of the class described, the combination of a pair of split collars adapted to encircle a wheel hub, links pivoted to the members of the respective collars at one side of the hub, similar links connecting the members of the respective collars at the opposite sides of the hub, means to secure the last-mentioned links to hold the collars in closed position, coil springs connected at

their inner ends to said split collars and extending radially from the same, flexible element connected to the



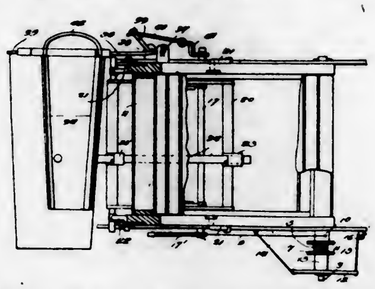
outer ends of said coil springs, and an annular ground-engaging body secured to the outer ends of said flexible elements.

1,389,778. VEHICLE-WHEEL. FRANK B. MULFORD, St. Louis, Mo. Filed Sept. 11, 1920. Serial No. 409,525. 8 Claims. (Cl. 301—11.)



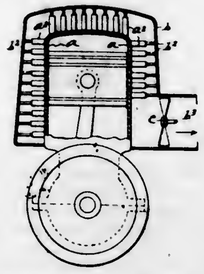
1. A vehicle wheel comprising a hub member having a flange extending outwardly adjacent one end thereof, a disk mounted upon said hub-member, the said disk comprising a plurality of parts pivotally mounted to be inclined toward each other to lessen the periphery of the disk, a rim having stop members arranged in spaced relation on its inner periphery to form a groove for receiving the periphery of said disk, means threaded on said hub for clamping said disk against said flange and expanding the periphery of said rim, and means for establishing a positive driving connection between said disk and said hub and rim respectively.

1,389,779. SHOCK-FORMING DEVICE. ANDREW H. PALMBUSH, Conrad, Mont. Filed Apr. 9, 1918, Serial No. 227,546. Renewed Dec. 31, 1920. Serial No. 434,382. 4 Claims. (Cl. 56—422.)



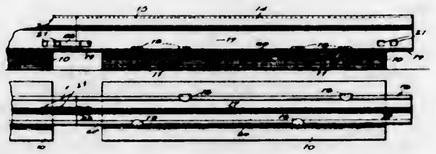
1. In a device of the character described, a main frame, conveying means on said frame, coacting clutch means associated with the conveying means and arranged so that the conveying means normally operate, a secondary frame movably supported in the main frame, means for operably connecting the secondary frame with the clutch means, shock forming means rockably mounted in the secondary frame, retaining means engaged with one end of the shock forming means for preventing rotation thereof, and other means connected to the secondary frame and operable when the secondary frame is moved for effecting disengagement of the forming means from the retaining means.

1,389,780. APPARATUS FOR AIR-COOLING CYLINDERS. FREDERICK W. PECK, Royal Oak, Mich. Filed Mar. 8, 1920. Serial No. 364,187. 2 Claims. (Cl. 123—171.)



1. The combination of a cylinder, cylindrical cavities having walls connected with the walls of said cylinder, a casing inclosing said cylinder and apertures formed through the walls of said casing opposite said cavities and at a distance therefrom and means for projecting a jet of air through said apertures.

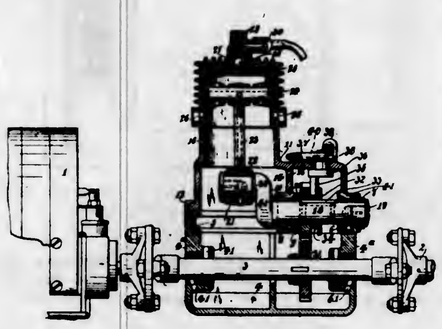
1,389,781. TRACK. GUY HARRISON PEIFER, Hazleton, Pa. Filed Jan. 4, 1921. Serial No. 434,879. 14 Claims. (Cl. 238—10.)



11. A rail having a rebent sheet forming a tubular ball portion, a web portion and a base portion, and a

core in said ball and extending throughout the length thereof, whereby when abutting rail sections are secured together, the ends of said cores will contact to form a continuous conductor.

1,389,782. AUTOMOBILE-PUMP. JOHN G. PERRIN, Detroit, Mich. Filed July 16, 1914, Serial No. 851,258. Renewed Apr. 9, 1920. Serial No. 372,717. 5 Claims. (Cl. 230—27.)



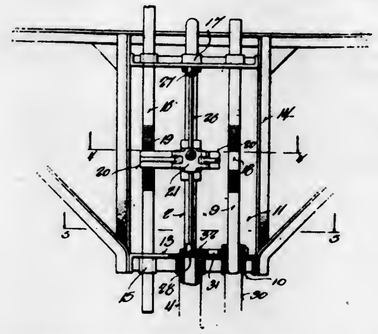
1. In a device of the class described, the combination with a relatively short shaft designed to connect the magneto directly with a water pump, of a casing forming an extension from the engine base and containing practically all of said shaft whereby a relatively large casing may be disposed to occupy practically all of the small space between the magneto and water pump, a base plate carried by said casing, a pump body carried by said base plate and including a pump cylinder, a pump crank shaft journaled between the pump body and base plate and removable therewith, means for fastening said pump body and base plate to the casing, a pump piston in said cylinder actuated from said crank shaft and a clutch connection between said magneto and water pump shaft and said pump crank shaft.

3. In an automobile construction, the combination with a shaft opposite ends of which are provided with means for connecting the same with a magneto and water pump, of an air pump including an actuating shaft paralleling the first named shaft, a driving clutch connection between said shafts, manually actuated means for moving said clutch into and from its operative position and means coacting with said manually actuated means for automatically locking said clutch in position.

5. In combination with an extension from an engine base constituting a crank shaft chamber and a shaft mounted in said chamber and driven from the engine, of a casing open to said chamber and including an air pump cylinder, a pump shaft mounted in said casing and removable therewith as a unit, a piston reciprocating in said cylinder and operatively connected to said shaft, said pump shafts and piston being lubricated from said crank shaft chamber and a clutch connection between said shafts.

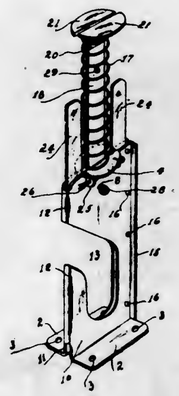
1,389,783. PUMPING ATTACHMENT. JOSEPH F. RADEY, Cuto, Wis. Filed May 25, 1920. Serial No. 384,104. 2 Claims. (Cl. 103—62.)

1. In an apparatus of the class described, a reciprocable operating device, a power driven actuating member, a manually driven actuating member, and means for selectively connecting either of the members with the operating device comprising a pivoted bracket, means on the bracket for selectively cooperatively engaging either of said members when the former is swung to either one of two positions, a crank, a rod connecting the crank and bracket, a



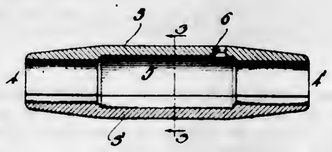
rotatable member and a connection between the rotatable member and crank to oscillate the latter by rotation of the former.

1,389,784. POULTRY-KILLER. FRANK S. RECE and ALBERT P. CUNNINGHAM, Dallas, Tex. Filed Dec. 14, 1920. Serial No. 430,660. 4 Claims. (Cl. 17—30.)



4. A blank for the frame of a poultry killer consisting of a single integral sheet having a large inverted U-shaped slot therethrough at its center and provided with spaced openings adjacent its side edges and further provided with bendable tongues projecting from its end edges.

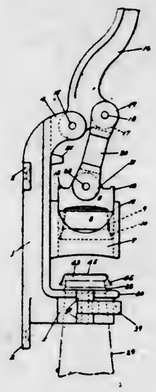
1,389,785. CABLE-REPAIR DEVICE. ROYAL N. RIBLET, Spokane, Wash., assignor of one-half to Byron C. Riblet, Spokane, Wash. Filed May 8, 1920. Serial No. 379,827. 3 Claims. (Cl. 22—116.)



1. A cable repair device comprising a longitudinally divided sectional sleeve and applied about a fractured

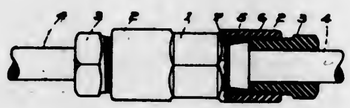
portion of a cable with the cable closing the ends of the sleeve, and means for integrally bonding said cable within the sleeve.

1,389,786. BOTTLE-CAPPER. LOVELL M. ROUSE, Portland, Oreg. Filed Sept. 24, 1919. Serial No. 326,066. 2 Claims. (Cl. 226—84.)



1. In a bottle capper, a frame piece, a capping member supported on said frame, means on said frame for operating said capping member, a shelf for supporting a bottle by its neck beneath said capping member, said shelf comprising an annular closed seat formed of a pair of relatively movable sections, one of said sections being rigidly related to said frame and comprising more than 180° of said seat.

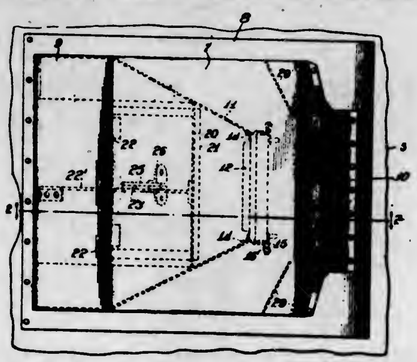
1,389,787. COUPLING FOR RODS. THOMAS R. STANLEY, Oil City, Pa. Filed Sept. 20, 1919. Serial No. 325,198. 5 Claims. (Cl. 287—107.)



1. A coupling for rods comprising in combination, a body provided at both ends thereof with a screw-thread, also a face for abutment of the rod to be coupled; a rod provided at its end with a tapering head, tapered toward its free end and having oppositely-positioned faces spaced longitudinally of said rod; and a member provided with a screw-thread coöperating with said body screw-thread, an opening in said member into which said rod extends, also a clamping face between which and said body clamping face, the respective faces of said head are clamped.

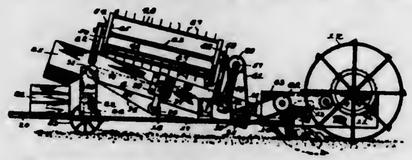
1,389,788. CAR-VENTILATOR. AUGUST STEGER, Chicago, Ill., assignor of one-fourth to George A. Woodman, Chicago, Ill. Filed June 14, 1917. Serial No. 174,749. 5 Claims. (Cl. 98—22.)

5. A car ventilator comprising a shell having top, front and back walls, a bottom wall having an opening therein, converging side walls inclosing the front portion of said opening and forming an outlet, an inclined door hinged to the shell at the top thereof behind the outlet to close



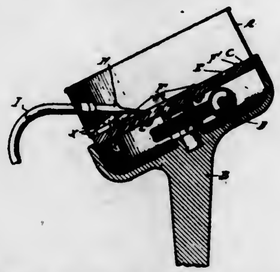
the passage leading thereto, means for operating said door, and a screen in said outlet in front of said door.

1,389,789. POTATO-PICKER. MILO M. STEPHENS and WILLIAM STEPHENS, Lakeview, Mich. Filed Nov. 15, 1920. Serial No. 424,131. 8 Claims. (Cl. 130—30.)



1. In a separating machine, the combination of a frame, a conveyer carried by said frame, a vine clearer carried by said frame above said conveyer including fingers movable through the material while it is on said conveyer at right angles to the direction in which it is being conveyed, and means for operating said conveyer and said vine clearer.

1,389,790. WORK-PIECE FEEDING MECHANISM. EDWIN V. SWANGREN and VICTOR SWANGREN, Maywood, Ill., assignors to F. J. Littell Machine Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 5, 1921. Serial No. 442,648. 6 Claims. (Cl. 218—2.1.)

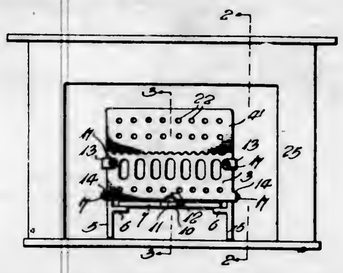


3. In a device for feeding objects in column, a hopper, a rotary feed-plate having an annular channel adapted to collect and arrange the objects with their longitudinal axes in column, and a stripper constructed with a bore corresponding to the channel and with an end coinciding therewith; said stripper comprising a tubular stylus adapted to receive and confine the objects in column, and being related to the channel to permit the objects to extend in continuous column from the channel into the stripper.

1,389,791. PROCESS OF PRODUCING ARTIFICIAL RESIN. ARTHUR L. TANNEHILL, Gary, Ind. Filed Mar. 27, 1919. Serial No. 285,545. 12 Claims. (Cl. 134—26.)

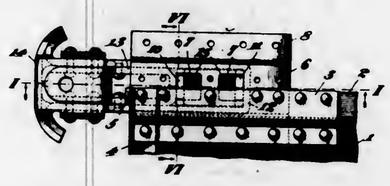
1. The improvement in the art of producing artificial resin by the polymerization of solvent naphtha obtained from coal gas or coal tar, which improvement consists in arresting the polymerization while the resin is in a highly fluid state.

1,389,792. COAL-GRATE. JAMES WILLIAM TATUM, Durham, N. C., assignor to Shaker-Dump Coal-Grate Co., Durham, N. C. Filed Feb. 17, 1921. Serial No. 445,649. 3 Claims. (Cl. 126—164.)



1. A grate comprising a fire box having a rear wall, a forward wall and end walls, a depending fulcrum element carried by said rear wall, supporting means carried by said end walls, and a bottom grate extending beneath said forward wall and resting upon said supporting means and having its rear edge portion engaging said fulcrum to mount the grate for oscillating movement in a horizontal plane.

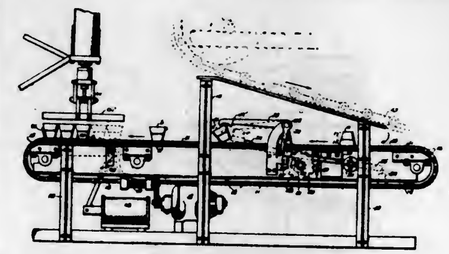
1,389,793. DRAFT-RIGGING. GEORGE E. THACKRAY, Westmont borough, Pa. Filed Mar. 10, 1920. Serial No. 364,618. 3 Claims. (Cl. 213—42.)



1. In a draft rigging, a bar of U-shape having its free ends extending outwardly, another shorter bar bent into link-form and secured to and within the first mentioned bar, the free ends of said shorter bar projecting inwardly toward each other, and a draw-bar head and buffer abutting said free ends and secured to the aforesaid bars.

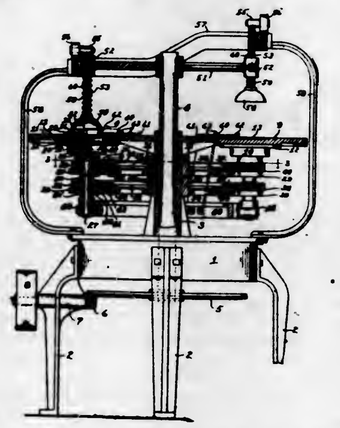
1,389,794. LEAD-STACKING MACHINE. ADOLPH A. THIELE and JOHN W. INGERSOL, Omaha, Nebr., assignors to American Smelting and Refining Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 8, 1919. Serial No. 336,641. 16 Claims. (Cl. 214—6.)

1. In a bar stacking machine, the combination with a bar receiving conveyer and a bar discharging conveyer for receiving the bars discharged from the receiving conveyer, a stop at the discharging end of said discharging conveyer for limiting the movement of the bars thereon, power means operatively connected to both conveyers for driving the same in unison, means associated with the receiving conveyer for arranging the bars in a position different from the position which they possess when received on said receiving conveyer and means associated with the



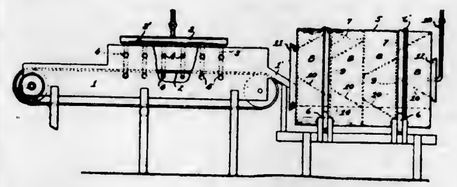
discharging conveyer for assembling certain of the bars in a set, in a desired position, with the first bar of the set engaging said stop.

1,389,795. PEACH-PITTER. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed June 7, 1921. Serial No. 475,642. 15 Claims. (Cl. 146—6.)



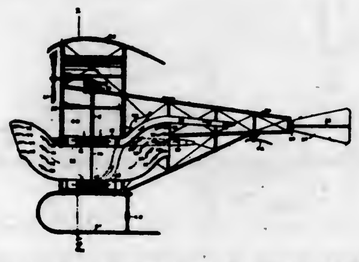
6. A peach-pitter comprising means for holding the fruit; a reciprocative blade adapted to penetrate the fruit, exterior to the pit; and means for revolving said penetrated blade about the pit.

1,389,796. METHOD OF PEELING FRUIT. ALBERT R. THOMPSON, San Jose, Calif., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif., a Corporation of California. Filed July 5, 1921. Serial No. 482,455. 4 Claims. (Cl. 146—14.)



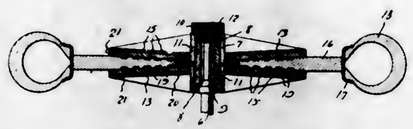
1. The method of peeling fruit comprising initially softening the skin by subjection to heat, and then immediately removing the softened skin by subjecting the fruit to the action of an aqueous saline solution.

1,389,797. AIRPLANE. ROBERT M. THOMPSON, Tacoma, Wash. Filed Oct. 23, 1918. Serial No. 259,391. 12 Claims. (Cl. 249—18.)



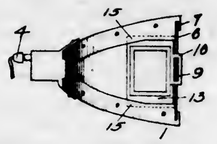
1. An airplane embodying two air tunnels disposed at right angles to each other, the outermost openings of said tunnels being supplied with lifting planes against which air may be forced, the direction of said forced air being by a common outlet intermediate said planes.

1,389,798. VEHICLE-WHEEL. OSCAR TROMLITZ, Cleveland, Ohio. Filed Nov. 15, 1920. Serial No. 424,145. 2 Claims. (Cl. 152—28.)



1. A wheel comprising an inner hub sleeve, a pair of abutting outer tubular hub sections fitting upon the outer side of said sleeve and covering the same lengthwise, each section having a radially extending disk the inner surface of which is inclined to form a tapered space between the disks, an outer tapered disk fitting between said disks, and cushions between the surfaces of the tapered disk and the inclined surfaces of the first mentioned disks.

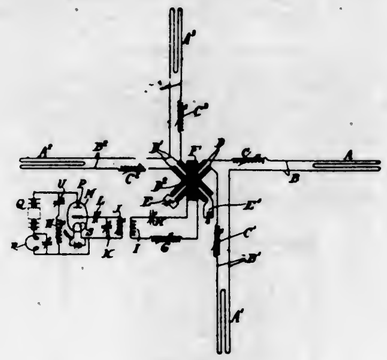
1,389,799. ILLUMINATED SIGN. FRED M. VANSICKLE, Lewiston, Idaho. Filed June 23, 1921. Serial No. 479,718. 1 Claim. (Cl. 40—132.)



The combination in an illuminated sign with a lamp casing having complementary flanges and retaining plates, of a license plate, a transparent plate and an open slide frame supported in said complementary members, said slide frame having a front slotted tongue and a rear angular slotted lug projecting beyond the casing, an exterior display device having a slotted keeper plate to receive the slotted tongue, and sealing devices for the ends of said slide frame.

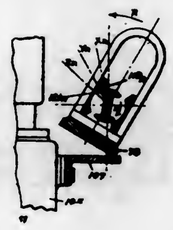
1,389,800. RADIOSIGNALING APPARATUS. ROY ALEXANDER WEAGANT, New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America, a Corporation of Delaware. Filed Feb. 1, 1918. Serial No. 214,827. 8 Claims. (Cl. 250—20.)

1. In combination, at a radio receiving station, a plurality of separated antennæ, tuned to the same frequency and adapted to receive horizontally propagated waves in a plurality of directions, and receiving apparatus for



utilizing the signal waves, including means for eliminating the interference due to static disturbances.

1,389,801. AUTOMATIC GOVERNING MECHANISM FOR INTERNAL-COMBUSTION ENGINES. WILLIAM B. SMITH WHALEY, Malden, Mass., assignor to American Whaley Engine Company, Boston, Mass., a Corporation of Massachusetts. Filed July 28, 1917. Serial No. 183,368. 12 Claims. (Cl. 123—99.)

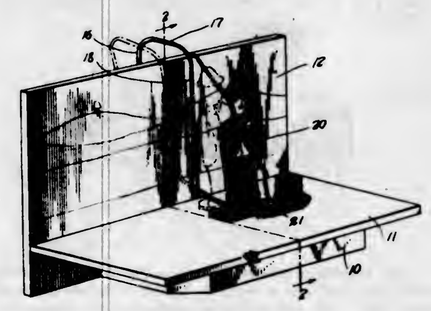


4. In combination with an internal combustion engine, a rotatable governor member adapted to be coupled with said engine to be rotated thereby; an angularly movable bracket member operating about an offset axis; a magneto mounted on said bracket and having the armature of said magneto coupled to rotate with said engine and centered with the axis of said bracket; and means coupling said governor member with said movable bracket for angularly positioning the latter for angularly setting said magneto supported thereon to vary the position of the poles thereof in relation to the armature for accordingly variably controlling the ignition timing of the engine.

1,389,802. TOY. LAWRENCE J. WIDNESS, Brooklyn, N. Y. Filed Jan. 27, 1921. Serial No. 440,262. 4 Claims. (Cl. 46—40.)

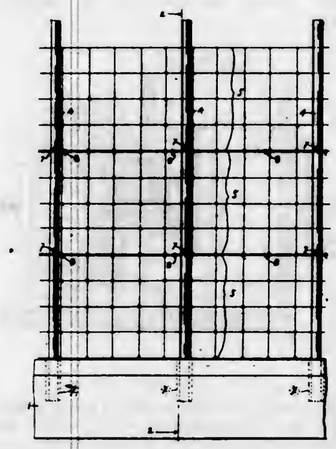
1. A toy comprising a base, a plate representing a background at the rear of said base; an image, a single

wire support for said image, extending over said plate and secured in the rear edge of said base; and a single



helix in said wire, said wire permitting free action of said image over the base.

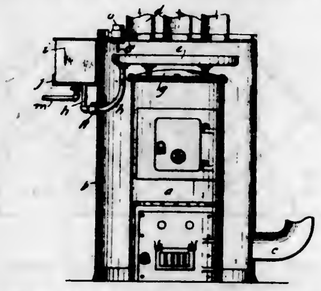
1,389,803. REINFORCED CONCRETE CONSTRUCTION. FRANK D. WOLFE, San Jose, Calif. Filed Oct. 22, 1919. Serial No. 332,445. 8 Claims. (Cl. 25—131.)



1. The method of constructing a concrete wall or the like which consists in providing a plurality of spaced substantially parallel reinforcement supporting elements, mounting reinforcement elements thereon, erecting forms to inclose said supporting elements, anchoring said supporting elements between said forms, pouring the concrete, and finally withdrawing said supporting elements before said forms are removed.

1,389,804. HUMIDIZING ATTACHMENT FOR HOT-AIR FURNACES. JOHN O. WRENN, Portland, Oreg. Filed June 3, 1919. Serial No. 301,572. 2 Claims. (Cl. 126—113.)

1. In a hot air furnace, humidifying means comprising a water-pan located at the top of the furnace within the outer casing thereof, and an automatic water feed for said water-pan whereby a constant sheet of water is maintained in the latter, said automatic water feed being



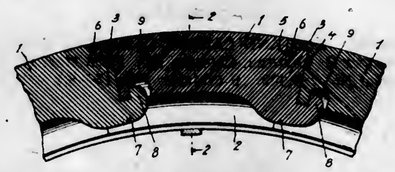
adjustable for varying the depth of said sheet of water according to atmospheric requirements.

1,389,805. LOCK. ARTHUR JEFFERSON WYCHERLEY, Wellington, New Zealand. Filed Aug. 30, 1920. Serial No. 407,049. 4 Claims. (Cl. 70—46.)



3. A lock cylinder fixing device comprising a body having a bushing portion to fit in a mortise in a door and to inclose the cylinder and connecting bar of a lock, and also having a front flange to bear against the face of the door, the body being of such form as to prevent it from being turned in the mortise, and being provided with an opening corresponding with the cross-section of the lock cylinder.

1,389,806. TIRE-FILLER. ROBERT AMBÜHL and MARX TEITSCH, Troy, N. Y. Filed Aug. 22, 1919, Serial No. 319,075. Renewed Mar. 19, 1921. Serial No. 453,707. 3 Claims. (Cl. 152—5.)

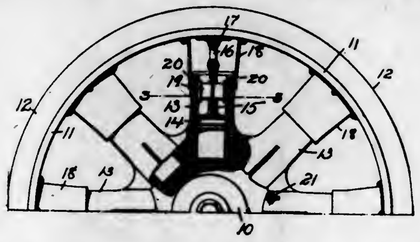


2. In a tire, a series of segmental blocks of resilient material placed end to end, each block having one end reduced in diameter to provide a projecting portion, the opposite end having a complementary recess, the outer face of said projecting end having a segmental socket formed therein, and the wall of the said recess having a complementary rib formed thereon, the said projecting end having on its inner side a longitudinally projecting finger terminating in an outturned hook, the other end having a recess adapted to receive said hook.

1,389,807. WHEEL. GUSTAV BAUMANN, Rahway, N. J., assignor of one-half to Anton Lederle, Rahway, N. J. Filed Oct. 20, 1919. Serial No. 331,913. 4 Claims. (Cl. 152—48.)

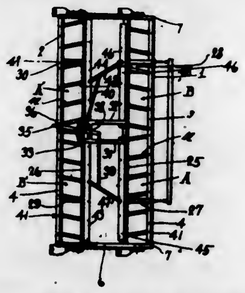
1. A wheel having a rim and hub, one member having a series of cylinders independent of each other and

adapted to have the air partially withdrawn therefrom, pistons in the cylinders, and links connecting the pistons



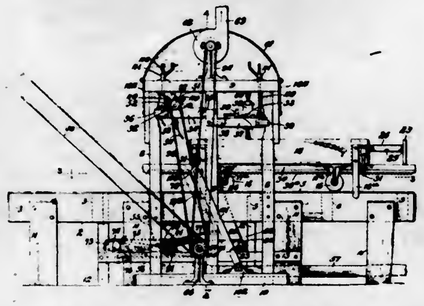
and the other member, said links being under tension when air is withdrawn.

1,389,808. LEVELING-HARROW. JOHN C. BLOOMFIELD, East Columbus, Ohio. Filed Nov. 17, 1919. Serial No. 338,509. 1 Claim. (Cl. 55—22.)



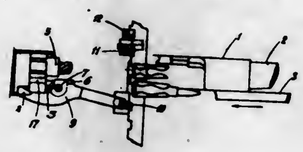
A harrow comprising a rectangular frame, blades each pivotally mounted on two parallel sides of said frame, angle irons carried by said frame and parallel with the sides mounting said blades, flange members bolted to the adjacent ends of said blades and overlying said angle irons whereby a sliding guide is formed, and means connected with said flanges for moving the same to vary the angle of the blades with respect to the frame.

1,389,809. RUG AND CARPET CLEANING MACHINE. AUGUST H. BOELTER, Chicago, Ill. Filed Mar. 17, 1919. Serial No. 283,092. 9 Claims. (Cl. 15—8.)



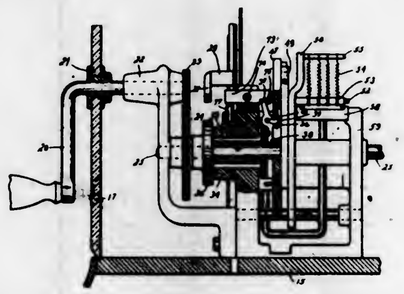
1. In a machine for cleaning rugs and the like, a support for the rug, cleaning devices associated with the support, carrying means for the rug on opposite sides of the support, and extensible carrying means for the rug at one end of the support.

1,389,810. GAS-OPERATED MACHINE-GUN. EMILE ALEXANDRE LOUIS BOURDELLES, Paris, France, assignor to Societe Anonyme Des Etablissements Delaunay Belleville, St. Denis, Seine, France, a Corporation of France. Filed Jan. 7, 1918. Serial No. 210,763. 1 Claim. (Cl. 89—33.)



In an automatic gun of the class described, including a cartridge belt and a movable breech cylinder, an oscillating feed lever for said belt having a cam thereon cooperating with the breech cylinder to actuate the lever upon the rearward movement of the cylinder, retaining catches for the cartridge belt, a spring actuated piston for returning the lever to its initial position upon the forward movement of the breech cylinder, and means carried by said lever coöperating with the breech cylinder to positively position said lever.

1,389,811. VENDING-MACHINE. EUGENE F. BOWEN and EPHRIAM J. SCOTT, Providence, R. I. Filed Sept. 15, 1920. Serial No. 410,418. 13 Claims. (Cl. 194—91.)

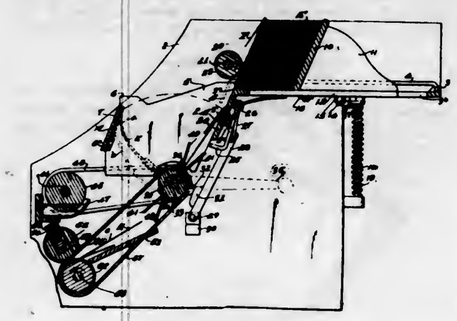


1. An improvement in coin controlled vending machines comprising a drive shaft provided with a clutch member rotatable therewith, a rotatable actuator member, a movable dog carried by the actuator member, a spring acting to move said dog into engagement with the clutch member, a pivotally-supported tripper for normally locking said dog against the tension of said spring, and means for forcing a coin into engagement with said tripper to actuate the same to release said dog.

1,389,812. ENVELOP-SEALER. JOSIAH H. BYERLEY, Los Angeles, Calif. Filed Mar. 4, 1920. Serial No. 363,296. 7 Claims. (Cl. 120—6.)

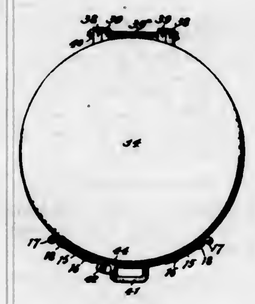
1. A machine for automatically moistening and sealing the flaps of letter envelops comprising means for automatically advancing a row of envelops from a table; means for successively shifting the advancing envelops; means operative to engage and periodically release the successive envelops; means for clamping the envelops after they are disengaged successively and for moving them against an abutment so as to open the flap from the

body of the envelop; a moistening device across which the open and gummed flap of each envelop is drawn to



moisten the gum; and means for receiving the moistened envelops and for pressing the flaps to sealing position.

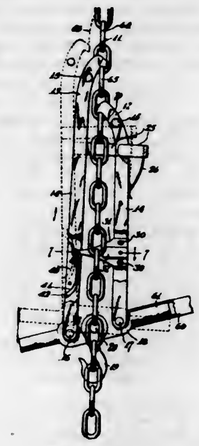
1,389,813. FIRELESS COOKER. JOHN E. CHAMBERS, Shelbyville, Ind., assignor to Chambers Man'fg Co., Shelbyville, Ind., a Corporation of Indiana. Filed Oct. 31, 1917. Serial No. 199,506. 10 Claims. (Cl. 126—39.)



10. In a fireless cooker, the combination of concentric cylindrical walls having an interposed filling of heat insulated material, rings or collars interposed between said walls at the top and bottom thereof, a cover hingedly connected to the upper collar, said upper collar having an inwardly projecting annular series of segmental supporting flanges forming intermediate spaces for the passage of products of combustion, a cooking vessel having an annular bead at its upper edge supported, on said flanges, and a portable heat transmitting member within the casing below said vessel, said last mentioned member being bodily removable as a complete unit, and means within the cooker for supporting said member in position.

1,389,814. WEIGHT-LIFTING DEVICE. EARLE E. CHAPMAN, Los Angeles, Calif., assignor to Miller-Chapman Company, a Corporation of California. Filed June 28, 1920. Serial No. 392,509. 8 Claims. (Cl. 254—75.)

1. A weight lifting device comprising a suspended member having projections thereon, a lever to which the weight to be lifted is attached, two hooks pivoted to said lever on opposite sides of the attachment point of said weight, said hooks engaging the projections on said suspended member from opposite sides, spring means for forcing said hooks toward each other, and cam means for



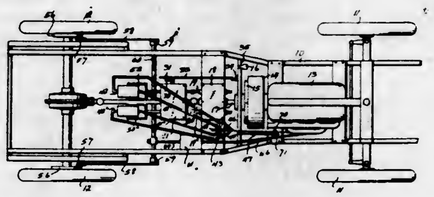
forcing said hooks apart to disengage them from said suspended member.

1,389,815. INNER TUBE FOR TIRES. REUBEN F. CORLESS, College Park, Ga. Filed July 19, 1921. Serial No. 485,820. 5 Claims. (Cl. 152—13.)



1. An inner tube for tires, having its tread portion provided with a groove and vacuum cups arranged on opposite sides of said groove.

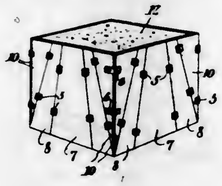
1,389,816. CONTROL APPARATUS FOR TRANSMISSIONS AND BRAKES OF AUTOMOBILES. CHARLES B. DAY, LUTHER F. DAY, and JESSE FORREST BAKER, Lamar, Colo. Filed Dec. 18, 1920. Serial No. 431,719. 8 Claims. (Cl. 74—58.)



1. In combination with an internal combustion engine having an intake pipe, a transmission embodying operating rods, a brake applied to mechanism driven by the

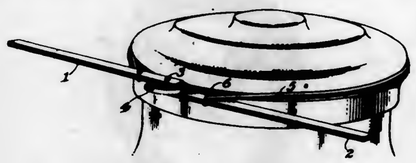
engine through said transmission, a member embodying portions shiftable under vacuum and connected with said operating rods, a second member embodying a portion shiftable under vacuum and connected with the brake, conduits connecting said members with the intake manifold, and means operating in the intake pipe for selectively directing the suction through either of said conduits.

1,389,817. CONCRETE-MOLDING FORM. ISAIAH E. DEAL, Quilcene, Wash. Filed Nov. 22, 1920. Serial No. 425,842. 2 Claims. (Cl. 25—121.)



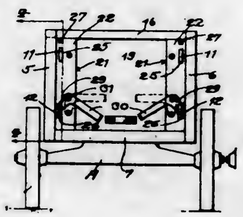
1. In a form for molding concrete pedestals, form sides comprising a central member having beveled edges, a plurality of side members fitting said edges, corner members fitting the edges of the said side members, means for detachably connecting the said side members with the said central member and with the corner members, and means for detachably securing the corner members together for opening and closing the form.

1,389,818. PRESERVE-JAR OPENER. HAROLD W. DEARING, New York, N. Y. Filed May 17, 1920. Serial No. 381,913. 3 Claims. (Cl. 81—3.1.)



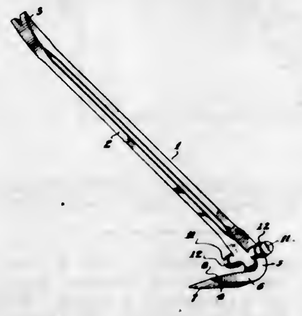
3. The combination with two metal bars or handles with rounded ends, a pivot pin uniting their rounded ends, a metal disk carried by the pivot pin and a wire loop the ends of which are connected to the bars on opposite sides of the pivot pin.

1,389,819. END-GATE-FASTENING DEVICE. WILLIAM H. DILLET, Ralston, Okla., assignor of one-third to James M. Harp and one-third to William T. Harp, Ralston, Okla. Filed Mar. 5, 1921. Serial No. 449,629. 3 Claims. (Cl. 296—53.)



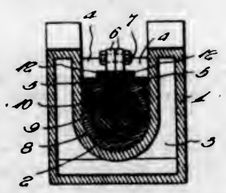
1. An end gate fastening device comprising a standard carried by each side of a vehicle body and supported in spaced relation to said side, each standard having hook members extending in spaced relation to each other, an end gate disposed between the standards, a holding member carried by each end of the gate, said members being disposed between a portion of the standards and the sides of the vehicle body and having openings for the reception of the hook members, and fastening means carried by the holding members for engagement with the hook members.

1,389,820. WRECKING-TOOL. ANDREW DOWNEY, Columbus, Ohio, assignor of one-half to Frederick Martin, Columbus, Ohio. Filed Apr. 9, 1920. Serial No. 372,459. 2 Claims. (Cl. 254—131.)



1. A tool of the class described, comprising an elongated handle portion, an angularly disposed tongue projecting from the lower end of said handle portion, a fulcrum for said tool comprising a laterally extending stud projecting rigidly from the portion of said tool connecting said handle and tongue, said stud being of substantially circular cross sectional formation and capable of producing a substantial support for said tool irrespective of the operating positions which the latter may assume, and means formed with said stud to maintain the latter in an operating position and to preclude slipping thereof.

1,389,821. TIRE-VULCANIZER. CLARENCE E. EVERETT, Milwaukee, Wis. Filed Nov. 8, 1920. Serial No. 422,616. 8 Claims. (Cl. 18—45.)

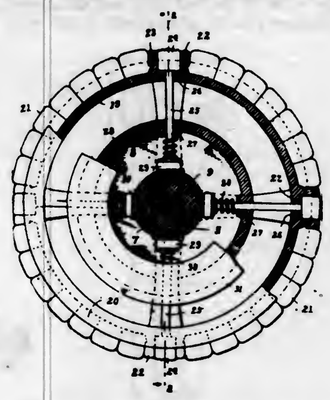


1. A tire vulcanizer comprising a tire receiving mold, a core of elastic compressible material for reception in the tire, and means for exerting transverse pressure on said core and thereby laterally expanding the same.

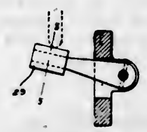
1,389,822. NON-SKID WHEEL. RICHARD J. FARRELL, Palmer, Mass., assignor of one-third to Mathew Kardes, Waterbury, Conn., and one-third to Joseph Bolewicz, Palmer, Mass. Filed Mar. 29, 1919. Serial No. 286,064. 2 Claims. (Cl. 301—46.)

1. In a non-skid wheel of the character described, the combination of a wheel having a hub and rim portion and pockets forward in the rim, adjustable lugs snugly fitting

said pockets and having stems extending through radial holes in said rim, springs for normally holding said adjustable lugs seated against the rim, and means for causing the lugs to leave their seats against the rim and to become extended from the periphery of the wheel.

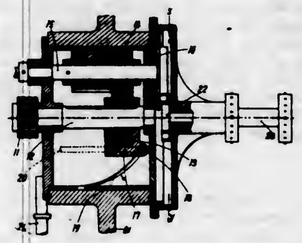


1,389,823. PICKER-CHECK. EDWARD FRIAR, Hope, R. I., assignor of one-half to John P. Craig, Hope, R. I. Filed June 7, 1921. Serial No. 475,762. 2 Claims. (Cl. 139—22.)



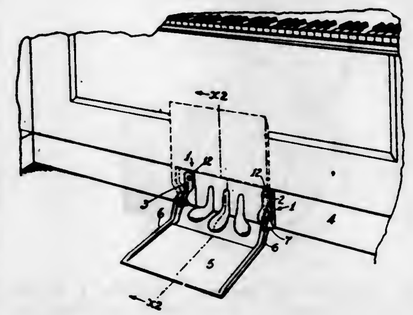
1. A picker check for looms comprising a bracket adapted to be bolted in position, a horizontally-disposed spring-pressed check arm extending into the path of the picker, a pivot pin rotatably mounted in said bracket to which pin said check arm is fixed, said pivotal pin having a bearing both above and below said arm, and a spring acting on said pin whereby the resistance thereof is transmitted through said pin to said arm.

1,389,824. ARRANGEMENT FOR REGISTERING IMAGES IN CINEMATOGRAPHIC PROJECTING APPARATUS. PIERRE SYLVAIN GAURIAT, Paris, France, assignor to Etablissements Continsouza (Societe Anonyme), Paris, France, a French Corporation. Filed Apr. 7, 1920. Serial No. 371,948. 1 Claim. (Cl. 88—17.)



In a fixed registration device for cinematographic apparatus, the combination with a rotating shutter and a film feeding drum, of a mechanism for simultaneously operating said shutter and drum, a Maltese cross and coöperating pin drive connecting the drum to said operating means, a drum axially mounted on a driving shaft interposed between said operating mechanism and Maltese cross driving connection, a cylindrical housing surrounding said drum, a pinion slidably keyed to said drum supporting shaft and inclosed within said drum, a pinion mounted on a stub shaft eccentrically positioned within said drum and in mesh with and adapted to revolve about said first-mentioned pinion, said stub shaft extending through the drum and supporting the Maltese cross, symmetrical helicoidal ramps cut through the walls of said drum, horizontal grooves formed in said cylindrical housing intersecting said ramps, a guide for said concentrically mounted pinion and a guide-rod carried by said pinion casing having its opposite ends mounted in said horizontally disposed grooves in the housing in a position to be engaged by said ramp, whereby a partial turning of the housing will cause a rotation of the eccentrically mounted pinion and Maltese cross about the concentrically mounted pinion, and lock the same in its adjusted positions, for maintaining correct synchronism between the feeding of the film and the operation of the shutter.

1,389,825. SUPPORTING AND PROTECTING PIANO ATTACHMENT. JOSEPH GERVAIS, Jr., Los Angeles, Calif. Filed Oct. 1, 1919. Serial No. 327,789. 5 Claims. (Cl. 84—183.)

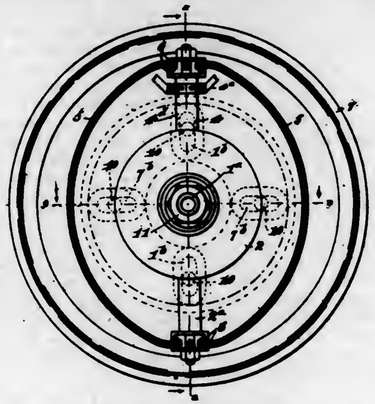


1. A piano attachment comprising a pair of spaced brackets secured to the front board of the piano, on opposite sides of the pedals, an outwardly extended arm pivotally supported on each of said brackets, a shelf attached to and connecting said arms, forming a rest for the feet of the player, an opening being provided between the said front board and said shelf, so as to permit the movement of said arms and said shelf without interference with said pedals, said arms having means thereon engaging said brackets for supporting said shelf above the level of the floor, and adapted to be elevated above said pedals, and held stationarily in position when not in use for the purpose described.

1,389,826. SUSPENSION-WHEEL. WILLIAM F. J. GOMRSCH, Cleveland, Ohio. Filed Dec. 20, 1920. Serial No. 431,898. 3 Claims. (Cl. 301—136.)

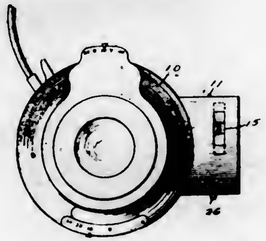
1. A resilient suspension wheel comprising a rotatable member provided with a hub, a non-rotating element mounted on said hub, a fixed supporting element with which said non-rotating element has a correlative radial movement and is suspended therefrom by expansion springs provided, said springs being firmly attached to the two non-rotating elements, a traction wheel member rota-

table on bearings provided on fixed element around the hub, driving means connecting the traction element and the

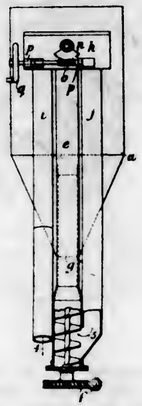


rotating hub element, said means providing correlative radial movement of said rotating elements.

1,389,827. REGISTER FOR CAMERAS. STANLEY LORING HAGAN, Butte, Mont. Filed Apr. 23, 1920. Serial No. 376,114. 5 Claims. (Cl. 235—91.)

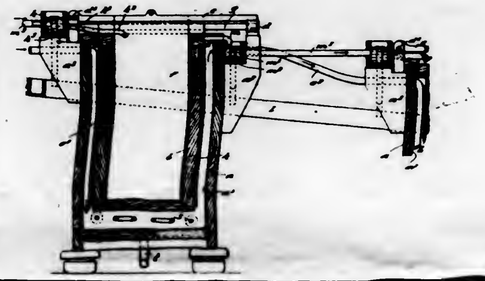


1. In a register for cameras, embodying a shutter casing, a casing adapted to be secured to the shutter casing, a horizontal shaft mounted in said casing, an indicia bearing wheel rotatably mounted upon said shaft and provided in one side thereof with notches, a vertically disposed lever having at its upper end a nose adapted to engage the notches of said wheel, said lever being adapted to be shifted to raised and lowered positions, a spring connected with one of said apertures, a by-pass tube connected with the other of said apertures for returning the fuel to be re-fed by the fuel tube, and an adjustable valve in said chamber pivoted substantially in line with the axis

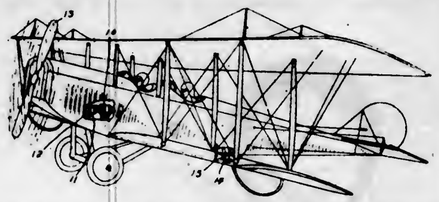


of the feed screw, and adapted to close communication between the feed tube and either of said apertures, and means for adjusting said valve to either of said positions or any desired intermediate position.

1,389,829. METHOD OF ELECTROLYZING A SOLUTION OF NICKEL SALT. CHRISTIAN HEBERLEIN, London, England. Filed Dec. 7, 1918. Serial No. 265,746. 4 Claims. (Cl. 204—14.)

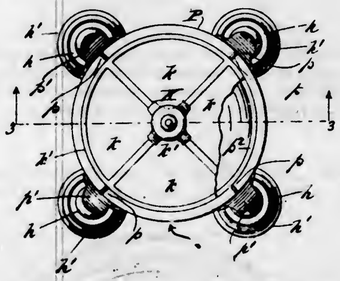


operable proportional to the relative speed of the air and airplane, and a differential indicator controlled by the



first named and last named means to indicate propeller efficiency.

1,389,831. ELECTRIC-LIGHT CHANDELIER. SIDNEY M. ISRAEL, Richmond Hill, N. Y. Filed Aug. 4, 1920. Serial No. 401,128. 1 Claim. (Cl. 240—78.)



An article of manufacture comprising an electric light chandelier of the character described, embodying an opaque concavo-convex plaque the inner portion of the rim of which is provided with an annular shoulder, and a cover of inverse concavo-convex form for said plaque supported by said shoulder and formed of a light transmitting material, said cover inclosing the concavity of the plaque to constitute a light-receiving chamber, a lamp socket in the bottom of the plaque, and means on the rim of the plaque for the attachment of suspending means for the chandelier.

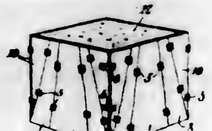
1,389,832. STEAM-ENGINE. JOHN G. KELLER, Milwaukee, Wis., assignor to The Vilter Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 27, 1917. Serial No. 188,395. 2 Claims. (Cl. 121—124.)

versely to the valve stems and to the axis of the cylinder and connected with the valve stems, valve opening and variable releasing gear connected with each rocker shaft of the admission valves, wrist plates having connections for actuating the rocker shafts to open the valves, means tending to close the valves, reciprocating eccentric rods arranged lenthwise of the cylinder and releasable couplings for operatively connecting and disconnecting the eccentric rods with the wrist plates, each comprising a clamping sleeve pivoted on a wrist plate and fitted on an accentric rod, a clamping screw intersecting the bore of the sleeve on one side and adapted by engagement with a notch in the eccentric rod to lock the sleeve in working position on the rod, the clamping screw being formed in another side with a notch which when turned into register with the bore of the sleeve, releases the rod and permits it to slide freely in the sleeve, and a spring pressed tapered pin fitted in the sleeve and adapted by engagement with a corresponding tapered socket in the eccentric rod, to bring the notch therein into exact register with the cross bore in the sleeve for the clamping screw.

1,389,833. HOOK. CHARLES E. KENT, Los Angeles, Calif., assignor of one-fourth to Walter L. Bowers, Los Angeles, Calif. Filed June 4, 1919. Serial No. 301,796. 2 Claims. (Cl. 24—129.)



1. A hook for tow lines and the like comprising a central shank having a corrugated section to assist in holding a rope hitch, a return bend at one end of the shank having a flattened and widened end, a right angle bend at the shank end opposite to the return bend and a second return bend beyond the right angle bend arranged transversely relative to the first named return bend.





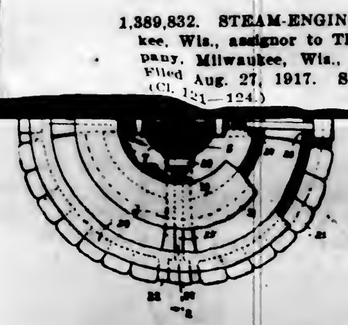


sontal grooves formed in said cylindrical housing intersecting said ramps, a guide for said concentrically mounted pinion and a guide-rod carried by said pinion casing having its opposite ends mounted in said horizontally disposed grooves in the housing in a position to be engaged by said ramps, whereby a partial turning of the housing will cause a rotation of the concentrically mounted pinion and Maltese cross about the concentrically mounted pin-

bearing wheel rotatably mounted upon said shaft and provided in one side thereof with notches, a vertically disposed lever having at its upper end a nose adapted to engage the notches of said wheel, said lever being adapted to be shifted to raised and lowered positions, a spring



1,389,832. STEAM-ENGINE. JOHN G. KELLER, Milwaukee, Wis., assignor to The Vilter Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 27, 1917. Serial No. 188,395. 2 Claims. (Cl. 121—124.)



justable lugs seated against the rim, and means for causing the lugs to leave their seats against the rim and to become extended from the periphery of the wheel.

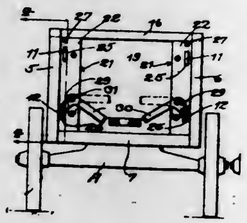
1. In a form for molding concrete pedestals, form sides comprising a central member having beveled edges, a plurality of side members fitting said edges, corner members fitting the edges of the said side members, means for detachably connecting the said side members with the said central member and with the corner members, and means for detachably securing the corner members together for opening and closing the form.

1,389,818. PRESERVE-JAR OPENER. HAROLD W. DEARING, New York, N. Y. Filed May 17, 1920. Serial No. 381,913. 3 Claims. (Cl. 81—3.1.)



3. The combination with two metal bars or handles with rounded ends, a pivot pin uniting their rounded ends, a metal disk carried by the pivot pin and a wire loop the ends of which are connected to the bars on opposite sides of the pivot pin.

1,389,819. END-GATE-FASTENING DEVICE. WILLIAM H. DILLET, Ralston, Okla., assignor of one-third to James M. Harp and one-third to William T. Harp, Ralston, Okla. Filed Mar. 5, 1921. Serial No. 449,629. 3 Claims. (Cl. 296—53.)

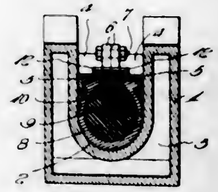


1. An end gate fastening device comprising a standard carried by each side of a vehicle body and supported in spaced relation to said side, each standard having hook members extending in spaced relation to each other, an



1. A tool of the class described, comprising an elongated handle portion, an angularly disposed tongue projecting from the lower end of said handle portion, a fulcrum for said tool comprising a laterally extending stud projecting rigidly from the portion of said tool connecting said handle and tongue, said stud being of substantially circular cross sectional formation and capable of producing a substantial support for said tool irrespective of the operating positions which the latter may assume, and means formed with said stud to maintain the latter in an operating position and to preclude slipping thereof.

1,389,821. TIRE-VULCANIZER. CLARENCE E. EVERETT, Milwaukee, Wis. Filed Nov. 8, 1920. Serial No. 422,616. 8 Claims. (Cl. 18—45.)

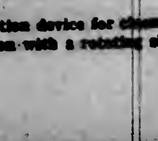


1. A tire vulcanizer comprising a tire receiving mold, a core of elastic compressible material for reception in the tire, and means for exerting transverse pressure on said core and thereby laterally expanding the same.

1,389,822. NON-SKID WHEEL. RICHARD J. FARRELL, Palmer, Mass., assignor of one-third to Mathew Kardos, Waterbury, Conn., and one-third to Joseph Bolewicz, Palmer, Mass. Filed Mar. 29, 1919. Serial No. 286,064. 2 Claims. (Cl. 301—46.)

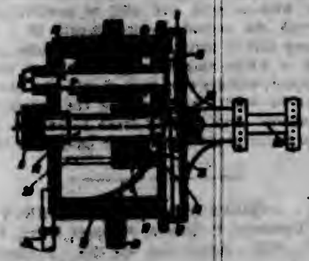
1. In a non-skid wheel of the character described, the combination of a wheel having a hub and rim portion and pockets forward in the rim, adjustable lugs snugly fitting

1,389,823. PICKER-CHECK. EDWARD FRIAR, Hope, R. I., assignor of one-half to John P. Craig, Hope, R. I. Filed June 7, 1921. Serial No. 475,762. 2 Claims. (Cl. 139—22.)



1. A picker check for looms comprising a bracket adapted to be bolted in position, a horizontally disposed spring-pressed check arm extending into the path of the picker, a pivot pin rotatably mounted in said bracket to which pin said check arm is fixed, said pivotal pin having a bearing both above and below said arm, and a spring acting on said pin whereby the resistance thereof is transmitted through said pin to said arm.

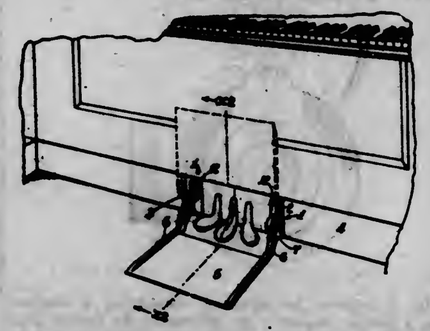
1,389,824. ARRANGEMENT FOR REGISTERING IMAGES IN CINEMATOGRAPHIC PROJECTING APPARATUS. PIERRE SYLVAIN GAUMAT, Paris, France, assignor to Etablissements Continsouza (Societe Anonyme), Paris, France, a French Corporation. Filed Apr. 7, 1920. Serial No. 371,943. 1 Claim. (Cl. 88—17.)



In a fixed registration device for cinematographic apparatus, the combination with a rotating shutter and a film

zontal grooves formed in said cylindrical housing intersecting said ramps, a guide for said concentrically mounted pinion and a guide-rod carried by said pinion casing having its opposite ends mounted in said horizontally disposed grooves in the housing in a position to be engaged by said ramps, whereby a partial turning of the housing will cause a rotation of the eccentrically mounted pinion and Maltese cross about the concentrically mounted pinion, and lock the same in its adjusted positions, for maintaining correct synchronism between the feeding of the film and the operation of the shutter.

1,389,825. SUPPORTING AND PROTECTING PIANO ATTACHMENT. JOSEPH GERVAIS, Jr., Los Angeles, Calif. Filed Oct. 1, 1919. Serial No. 327,789. 5 Claims. (Cl. 84—183.)

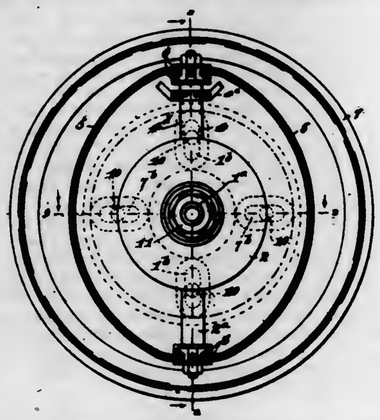


1. A piano attachment comprising a pair of spaced brackets secured to the front head of the piano, on opposite sides of the pedals, an outwardly extended arm pivotally supported on each of said brackets, a shelf attached to and connecting said arms, forming a rest for the feet of the player, an opening being provided between the said front board and said shelf, so as to permit the movement of said arms and said shelf without interference with said pedals, said arms having means thereon engaging said brackets for supporting said shelf above the level of the floor, and adapted to be elevated above said pedals, and hold stationarily in position when not in use for the purpose described.

1,389,826. SUSPENSION-WHEEL. WILLIAM F. J. GERMUS, Cleveland, Ohio. Filed Dec. 20, 1920. Serial No. 431,208. 3 Claims. (Cl. 301—105.)

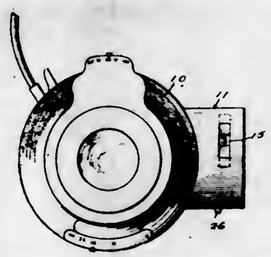
1. A resilient suspension wheel comprising a rotatable member provided with a hub, a non-rotating element mounted on said hub, a fixed supporting element with which said non-rotating element has a compulsive radial movement and is suspended therefrom by expansion springs provided, said springs being firmly attached to the two non-rotating elements, a traction wheel member pulv-

table on bearings provided on fixed element around the hub, driving means connecting the traction element and the



rotating hub element, said means providing correlative radial movement of said rotating elements.

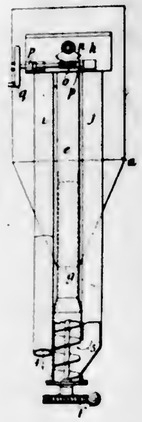
1,389,827. REGISTER FOR CAMERAS. STANLEY LORING HAGAN, Butte, Mont. Filed Apr. 23, 1920. Serial No. 376,114. 5 Claims. (Cl. 235—91.)



1. In a register for cameras, embodying a shutter casing, a casing adapted to be secured to the shutter casing, a horizontal shaft mounted in said casing, an indicia bearing wheel rotatably mounted upon said shaft and provided in one side thereof with notches, a vertically disposed lever having at its upper end a nose adapted to engage the notches of said wheel, said lever being adapted to be shifted to raised and lowered positions, a spring holding said lever in engagement with said wheel and in lowered position, a shifter slidably mounted within said casing and having one end extending through the wall of said shutter casing, the end of said shifter being loosely connected with a movable part of the shutter to be shifted in one direction thereby, means for returning said shifter to normal position, and a cam face formed on said shifter adapted to engage the lower end of said lever and elevate the same.

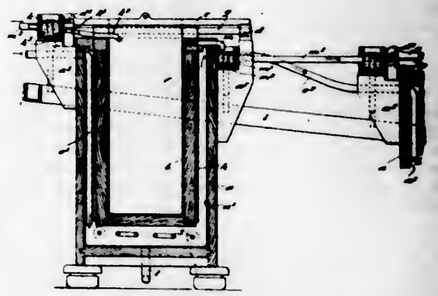
1,389,828. MEANS FOR FEEDING POWDERED FUEL TO FURNACES. LEONARD CHARLES HARVEY, Malden, and HARRY SYDNEY BUCKLEY, Westminster, London, England. Filed Aug. 5, 1920. Serial No. 401,341. 3 Claims. (Cl. 198—15.)

1. Apparatus for feeding powdered fuel to furnaces comprising a hopper, a vertically disposed feed tube communicating with the hopper, a rotatable feed screw extending through the feed tube, a chamber at the upper end of the feed tube, said chamber being provided with delivery apertures on opposite sides of the feed tube, a delivery tube connected with one of said apertures, a by-pass tube connected with the other of said apertures for returning the fuel to be re-fed by the fuel tube, and an adjustable valve in said chamber pivoted substantially in line with the axis



of the feed screw, and adapted to close communication between the feed tube and either of said apertures, and means for adjusting said valve to either of said positions or any desired intermediate position.

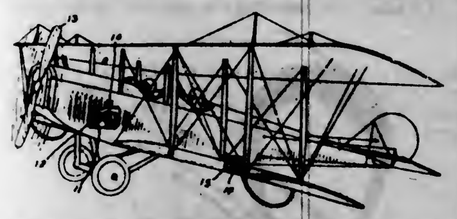
1,389,829. METHOD OF ELECTROLYZING A SOLUTION OF NICKEL SALT. CHRISTIAN HERRLEIN, London, England. Filed Dec. 7, 1918. Serial No. 266,746. 4 Claims. (Cl. 204—14.)



1. The continuous cyclic process for electrolytically producing nickel which consists in electrolysing a slightly acid liquor containing nickel salt, obtained by treating nickel ore with an acid, and kept in continuous circulation through the cathode compartments of a series of electrolyzing vats in serial order, the insoluble-anode compartments of which vats are traversed by a similar circulating liquor, withdrawing part of said last named liquor as soon as its acidity has exceeded the optimum acidity in the catholyte, and treating fresh nickel ore with said withdrawn liquor to produce further quantities of the first liquor.

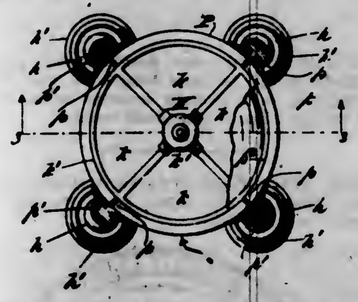
1,389,830. AERO-PROPELLER EFFICIENCY-INDICATOR. THEODORE P. HORNE, Newport News, Va. Filed Sept. 1, 1920. Serial No. 407,494. 5 Claims. (Cl. 244—1.)

1. The combination in an airplane, of means operable with the propelling means of the airplane, other means operable proportional to the relative speed of the air and airplane, and a differential indicator controlled by the



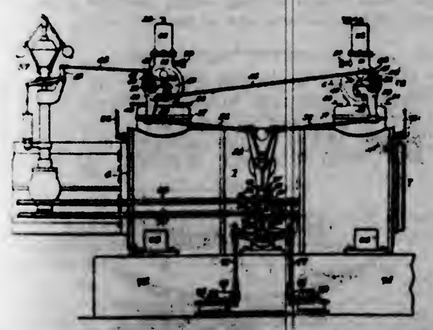
first named and last named means to indicate propeller efficiency.

1,389,831. ELECTRIC-LIGHT CHANDELIER. SIDNEY M. ISRAEL, Richmond Hill, N. Y. Filed Aug. 4, 1920. Serial No. 401,128. 1 Claim. (Cl. 240—78.)



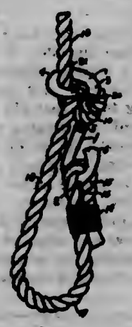
An article of manufacture comprising an electric light chandelier of the character described, embodying an opaque concavo-convex plaque the inner portion of the rim of which is provided with an annular shoulder, and a cover of inverse concavo-convex form for said plaque supported by said shoulder and formed of a light transmitting material, said cover including the concavity of the plaque to constitute a light-receiving chamber, a lamp socket in the bottom of the plaque, and means on the rim of the plaque for the attachment of suspending means for the chandelier.

1,389,832. STEAM-ENGINE. JOHN G. KELLER, Milwaukee, Wis., assignor to The Vilter Manufacturing Company, Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 27, 1917. Serial No. 188,205. 2 Claims. (Cl. 121—124.)



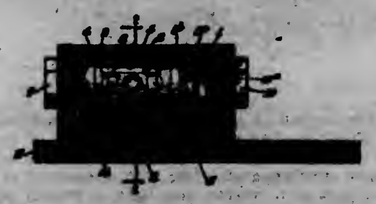
1. In a steam engine the combination with the cylinder and piston, of bonnets mounted on the cylinder, poppet steam-admission and exhaust valves having stems guided in the bonnets, rocker shafts mounted in the bonnets transversely to the valve stems and to the axis of the cylinder and connected with the valve stems, valve opening and variable releasing gear connected with each rocker shaft of the admission valves, wrist plates having connections for actuating the rocker shafts to open the valves, means tending to close the valves, reciprocating eccentric rods arranged lengthwise of the cylinder and releasable couplings for operatively connecting and disconnecting the eccentric rods with the wrist plates, each comprising a clamping sleeve pivoted on a wrist plate and fitted on an eccentric rod, a clamping screw intersecting the bore of the sleeve on one side and adapted by engagement with a notch in the eccentric rod to lock the sleeve in working position on the rod, the clamping screw being formed in another side with a notch which when turned into register with the bore of the sleeve, releases the rod and permits it to slide freely in the sleeve, and a spring pressed tapered pin fitted in the sleeve and adapted by engagement with a corresponding tapered socket in the eccentric rod, to bring the notch therein into exact register with the cross bore in the sleeve for the clamping screw.

1,389,833. HOOK. CHARLES B. KENT, Los Angeles, Calif., assignor of one-fourth to Walter L. Bowers, Los Angeles, Calif. Filed June 4, 1919. Serial No. 301,796. 2 Claims. (Cl. 24—129.)



1. A hook for tow lines and the like comprising a central shank having a corrugated section to assist in holding a rope hitch, a return bend at one end of the shank having a flattened and widened end, a right angle bend at the shank end opposite to the return bend and a second return bend beyond the right angle bend arranged transversely relative to the first named return bend.

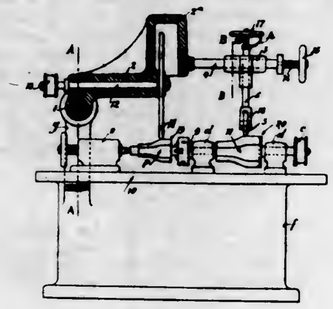
1,389,834. FLOW-CONTROLLER FOR CELLULOSIC SOLUTIONS. FREDERICK G. KRAFT, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 16, 1920. Serial No. 351,979. 9 Claims. (Cl. 106—44.)



1. In a flow controller, a casing providing a bearing, an element concentrically received substantially fluid-tight in said bearing for turning movement therein upon its longitudinal axis only, said casing having fluid passages com-

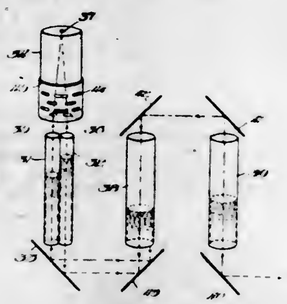
municating with said bearing and said element presenting fluid spaces for registration with said passages, means associated with said spaces, and operable by the fluid, for permitting one space to fill with fluid and for simultaneously expelling fluid from the other space, and means for turning said element.

1,389,835. GRINDING-MACHINE. ALBERT LECOMTE, Thiais, France. Filed May 24, 1920. Serial No. 383,859. 3 Claims. (Cl. 51—101.)



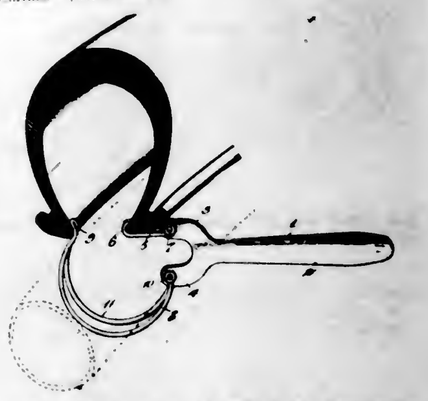
1. A grinding machine comprising in combination a machine frame, a carriage movable on said frame along the axial line of work, a master pattern, means on said carriage for holding together said pattern and the work, means for imparting to the pattern and the work a common rotary movement, a swinging frame having its axis horizontal and perpendicular to the line of work, a grinding wheel, a shaft supporting said grinding wheel and a guiding rod on said swinging frame, both perpendicular to the axis of the latter, means for rotating said shaft, a carriage movable on said guiding rod, a feeler member supported by said carriage and adapted to engage the pattern and means for adjusting the position of said feeler both in directions parallel and perpendicular to said guiding rod.

1,389,836. COLORIMETER AND THE LIKE. MELVIN MOONEY, Chicago, Ill. Filed July 7, 1919. Serial No. 309,107. 6 Claims. (Cl. 88—14.)



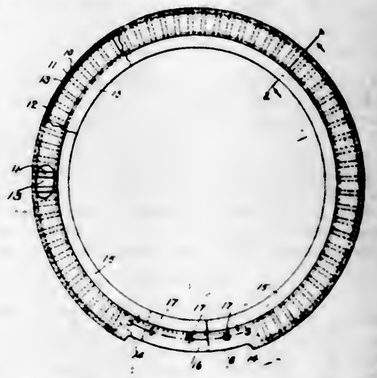
6. The method of testing a material to ascertain its color which consists in combining the color of the material with its complementary color, and also combining the same complementary color with a standard of comparison such as to produce gray light, to thereby produce gray light in both instances, and which consists in simultaneously observing both of said gray lights so produced for purposes of comparison, whereby the standard of comparison becomes a measure of the color of the material under test, substantially as described.

1,389,837. AUTO SHOE-EXPANDING TOOL. CHARLES A. MOORE, Elizabeth, and DAVID K. THORNTON, Roselle Park, N. J. Filed Oct. 30, 1920. Serial No. 420,712. 2 Claims. (Cl. 152—27.)



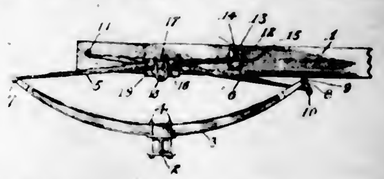
1. In a device of the class described, the combination of a handle member having a bifurcation, and a pair of hook members, each pivotally mounted on a respective one of the furcations of said handle member.

1,389,838. TIRE-COVER. WILLIAM H. MOORE, Pasadena, Calif. Filed Mar. 25, 1920. Serial No. 368,545. 5 Claims. (Cl. 150—54.)



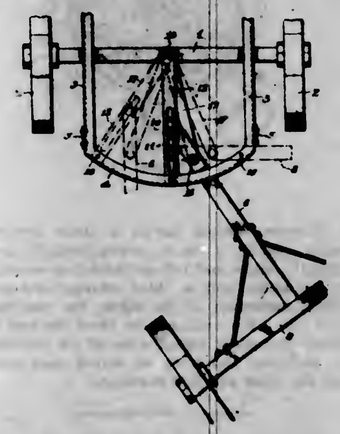
1. A tire cover comprising an annular casing substantially semi-circular in cross section provided with a plurality of air chambers open to the atmosphere.

1,389,839. SPRING SUSPENSION OF SELF-PROPELLED VEHICLES. HERBERT H. NEALE, New York, N. Y. Original application filed Oct. 6, 1916, Serial No. 124,036. Divided and this application filed August 19, 1919. Serial No. 318,451. 3 Claims. (Cl. 267—41.)



1. A spring suspension for motor vehicles consisting of a substantially rigid cradle supported by the vehicle axle at right angles thereto, and double cantaliver springs, each cantaliver being connected by its free end to one of the ends of said cradle and secured at its base and opposite end to the frame of the vehicle.

1,389,840. COUPLING DEVICE FOR VEHICLES. ROY J. NEELY, Detroit, Mich., assignor to Liberty Tractor Corporation, Detroit, Mich., a Corporation of Michigan. Filed July 24, 1919. Serial No. 313,014. 7 Claims. (Cl. 213—67.)



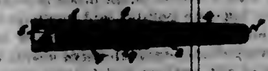
1. The combination of a vehicle axle, end frames supported from said axle, a longitudinal member connected to said axle and said end frames, a trailer tongue extending between said end frames and slidably held relative to said longitudinal member, and means connecting said tongue to said axle.

1,389,841. BURNER-SUPPORT. SYDNEY PEARSON, Brooklyn, N. Y. Filed Dec. 3, 1920. Serial No. 428,144. 2 Claims. (Cl. 126—96.)



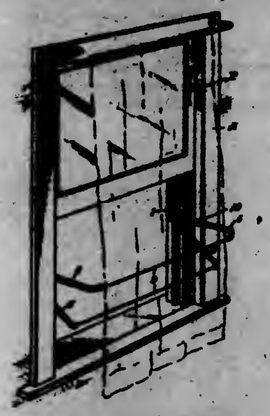
2. In a lamp support, a base, said base including a lamp chamber, a shaft operating above the lamp chamber, and having arms, hook members carried by the lamp, means carried by the arms and adapted to contact with the hook members for connecting the arms and hook members, and means for moving the shaft to raise the lamp within the lamp chamber.

1,389,842. CIGARETTE-HOLDER. CHARLES H. PLUMER, Newark, N. J. Filed Jan. 12, 1920. Serial No. 350,577. 1 Claim. (Cl. 131—10.)



A device of the class described, comprising a cigarette-holding member provided with a bore therethrough terminating in a cavity located in one end thereof, a mouth-piece provided with a bore therethrough slidably secured to said cigarette-holding member, an aluminum tube one end of which is secured in said mouth-piece and the other end of which is located in the bore of the cigarette-holding member, a perforated flattened disk secured to the end of the tube located in the bottom of said cavity, adapted to normally close the base of the cigarette-holding member and to be projected forward in said cavity, and a spring arranged upon the tube and engaging the ends of the cigarette-holding member and said mouth-piece tending to separate them.

1,389,843. CURTAIN-GUARD FOR WINDOWS. ADOLPH H. REHMANN, Detroit, Mich. Filed Feb. 10, 1920. Serial No. 357,635. 2 Claims. (Cl. 126—98.)



1. In a device of the character described, the combination of opposed arms, means for pivotally attaching each arm to a window casing comprising a pair of members between which one end of the arm is pivotally supported and means for securing the members to a window casing and for drawing the same into frictional contact with the arm, and a cord connecting the free ends of the arms.

1,389,844. PLATE COOLING AND FINISHING MACHINE. OSCAR ROSSEL, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed July 14, 1919. Serial No. 310,668. 32 Claims. (Cl. 29—21.)

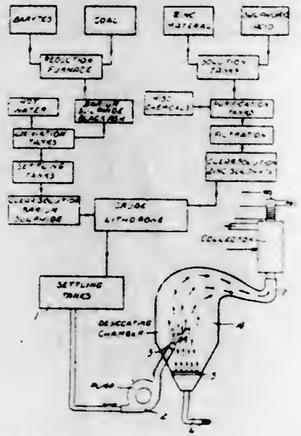


1. The combination of a cooling bath, means for forwarding a plate, a rotary carrier, means for holding a plate on the carrier between its straight edges, and means for rotating the carrier to dip the plate in the bath.

1,389,845. NUT-LOCK. ROBERT C. ROSS, Cleveland, Ohio. Filed Nov. 6, 1920. Serial No. 422,811. 8 Claims. (Cl. 151—53.)

1. A nut lock formed of a single piece of spring steel and comprising a [illegible]

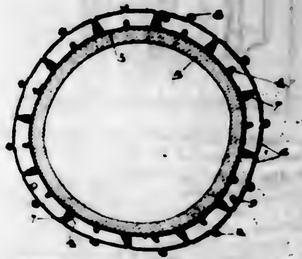
1,399,500. PROCESS OF MANUFACTURING LITHOPONE. CHARLES B. KUZELL, Clarkdale, Ariz. Filed Aug. 15, 1921. Serial No. 492,342. 7 Claims. (Cl. 134—78.)



5. The process of manufacturing lithopone which consists in precipitating crude lithopone from a mixture of barium sulfid and zinc sulfate, discharging the liquid containing crude lithopone as a fine spray into a current of heated air whereby the zinc sulfid constituent of the lithopone will undergo a partial superficial oxidation and thereafter collecting the finished product as a finely divided powder.

conducting material serving as one contact and of predetermined depth for receiving the base of an electrical lamp or plug, said socket having its other contact insulatingly mounted interiorly of said hollow member of protecting means comprising a hollow element having an outer diameter less than the said uniform diameter of said recess and positioned within said recess, said protecting device when in position in said recess freely exposing the contacts of said socket for electrical connection, said hollow element having a length appreciably less than said predetermined depth of said recess, whereby upon insertion of the lamp or the plug the base of the lamp or the plug extends through said hollow member to afford electrical connection between the contacts of the socket respectively with the contacts of said base respectively.

1,399,503. CYLINDRICAL KILN AND DRIER. GEORGE MCCRAE, Brantford, Ontario, Canada. Filed Oct. 6, 1920. Serial No. 415,199. 7 Claims. (Cl. 222—7.)



1,399,505. LIGHTING SYSTEM AND MEANS FOR CONTROLLING THE SAME. WILLIAM K. MCIVOR, Elgin, Ill., assignor, by mesne assignments, to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Oct. 14, 1916. Serial No. 125,724. 5 Claims. (Cl. 200—1.)

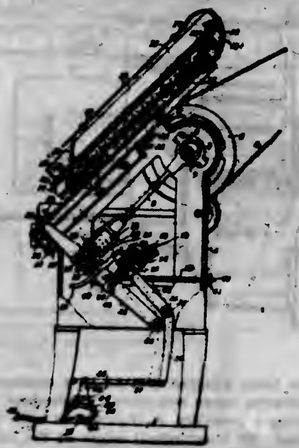


2. An electric switch comprising a plate adapted to be attached to a supporting member, an open-ended cap mounted in inverted position on said plate, an insulated base secured in the upper end of said cap, switch blades mounted on said base, and an operating member mounted on said plate for operating said switch blades.

1,399,506. MANUFACTURE OF CADMIUM PIGMENT. JOHN R. MARSTON, Clarkdale, Ariz. Filed Aug. 15, 1921. Serial No. 492,472. 5 Claims. (Cl. 134—78.)

3. In the manufacture of cadmium pigment, the process which consists in treating zinc dust precipitates containing metallic copper and cadmium with dilute sulfuric acid to dissolve the zinc as zinc sulfate, thereafter heating the mixture to a temperature to effect a solution of the cadmium as cadmium sulfate, drawing off the solution and

consists in advancing the column of blanks in stages and continuously forcing one end of the column of heel-blanks in a path diverging from that of the column, in such manner as to bodily deflect each blank in turn from the column without disturbing the relative positions of the assembled lifts composing the blank.



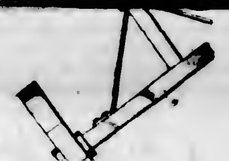
8. In a machine of the class described, the combination of a holder for a series of heel-blanks and counterboxes in column formation, means for forcing successive blanks and counterboxes into the holder at one end thereof and



1. A grinding machine comprising in combination a machine frame, a carriage movable on said frame along the axial line of work, a master pattern, means on said car-

1. *In a device of the class described, the combination of a handle* member having a bifurcation, and a pair of hook members, each pivotally mounted on a respective one of the furcations of said handle member.

1,389,838. TIRE-COVER. WILLIAM H. MOORE, Pasadena.





sists in precipitating crude lithopone from a mixture of barium sulfid and zinc sulfate, discharging the liquid containing crude lithopone as a fine spray into a current of heated air whereby the zinc sulfid constituent of the lithopone will undergo a partial superficial oxidation and thereafter collecting the finished product as a finely divided powder.



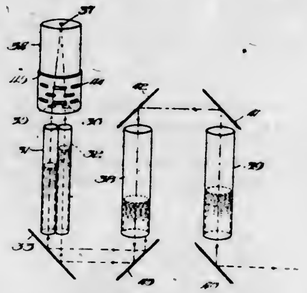
3. In the manufacture of cadmium pigment, the process which consists in treating zinc dust precipitates containing metallic copper and cadmium with dilute sulfuric acid to dissolve the zinc as zinc sulfate, thereafter heating the mixture to a temperature to effect a solution of the cadmium as cadmium sulfate, dragging off the solution and



8. In a machine of the class described, the combination of a holder for a series of lead-blanks and capsules in column formation, means for forcing successive blanks and separators into the holder as the successive blanks

1. A grinding machine comprising in combination a machine frame, a carriage movable on said frame along the axial line of work, a master pattern, means on said carriage for holding together said pattern and the work, means for imparting to the pattern and the work a common rotary movement, a swinging frame having its axis horizontal and perpendicular to the line of work, a grinding wheel, a shaft supporting said grinding wheel and a guiding rod on said swinging frame, both perpendicular to the axis of the latter, means for rotating said shaft, a carriage movable on said guiding rod, a feeler member supported by said carriage and adapted to engage the pattern and means for adjusting the position of said feeler both in directions parallel and perpendicular to said guiding rod.

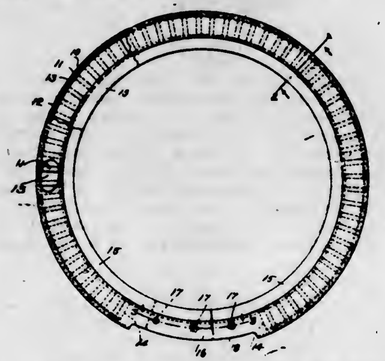
1,389,836. COLORIMETER AND THE LIKE. MELVIN MOONEY, Chicago, Ill. Filed July 7, 1919. Serial No. 309,107. 6 Claims. (Cl. 88—14.)



6. The method of testing a material to ascertain its color which consists in combining the color of the material with its complementary color, and also combining the same complementary color with a standard of comparison such as to produce gray light, to thereby produce ... light in both instances, and which consists in simul... observing both of said gray lights so produced ... of comparison, whereby the standard of ... es a measure of the color of the ma... ubstantially as described.

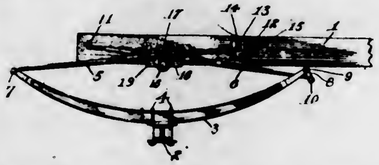
1. In a device of the class described, the combination of a handle member having a bifurcation, and a pair of hook members, each pivotally mounted on a respective one of the furcations of said handle member.

1,389,838. TIRE-COVER. WILLIAM H. MOORE, Pasadena, Calif. Filed Mar. 25, 1920. Serial No. 368,545. 5 Claims. (Cl. 150—54.)



1. A tire cover comprising an annular casing substantially semi-circular in cross section provided with a plurality of air chambers open to the atmosphere.

1,389,839. SPRING SUSPENSION OF SELF-PROPELLED VEHICLES. HERBERT H. NEALE, New York, N. Y. Original application filed Oct. 6, 1916. Serial No. 124,036. Divided and this application filed August 19, 1919. Serial No. 318,451. 3 Claims. (Cl. 267—41.)

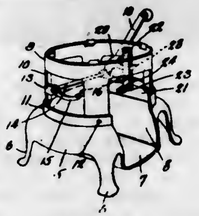


1. A spring suspension for motor vehicles consisting of a substantially rigid cradle supported by the vehicle axle



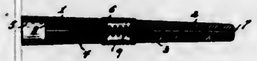
1. The combination of a vehicle axle, end frames supported from said axle, a longitudinal member connected to said axle and said end frames, a trailer tongue extending between said end frames and slidably held relative to said longitudinal member, and means connecting said tongue to said axle.

1,389,841. BURNER-SUPPORT. SEVERIN PEARSON, Brooklyn, N. Y. Filed Dec. 3, 1920. Serial No. 428,144. 2 Claims. (Cl. 126—96.)

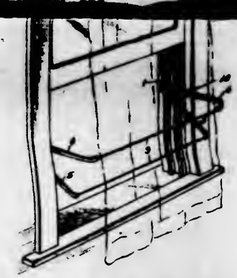


2. In a lamp support, a base, said base including a lamp chamber, a shaft operating above the lamp chamber, and having arms, hook members carried by the lamp, means carried by the arms and adapted to contact with the hook members for connecting the arms and hook members, and means for moving the shaft to raise the lamp within the lamp chamber.

1,389,842. CIGARETTE-HOLDER. CHARLES H. PLUMER, Newark, N. J. Filed Jan. 12, 1920. Serial No. 350,877. 1 Claim. (Cl. 131—10.)

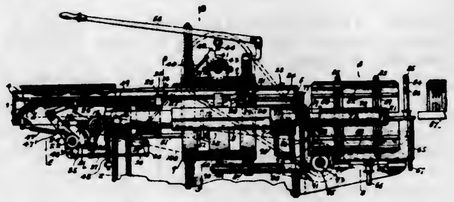


A device of the class described, comprising a cigarette-holding member provided with a bore therethrough termi-



1. In a device of the character described, the combination of opposed arms, means for pivotally attaching each arm to a window casing comprising a pair of members between which one end of the arm is pivotally supported and means for securing the members to a window casing and for drawing the same into frictional contact with the arm, and a cord connecting the free ends of the arms.

1,389,844. PLATE COOLING AND FINISHING MACHINE. OSCAR ROESEN, New York, N. Y., assignor to R. Hoe and Co., New York, N. Y., a Corporation of New York. Filed July 14, 1919. Serial No. 310,663. 32 Claims. (Cl. 29—21.)



1. The combination of a cooling bath, means for forwarding a plate, a rotary carrier, means for holding a plate on the carrier between its straight edges, and means for rotating the carrier to dip the plate in the bath.

1,389,845. NUT-LOCK. RALPH G. ROSE, Catesby, Okla. Filed Nov. 6, 1920. Serial No. 422,311. 2 Claims. (Cl. 151—53.)

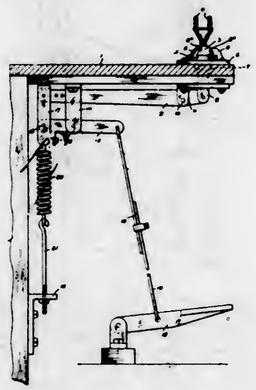
1. A nut lock formed of a single piece of spring steel and comprising a perforated diskilke body, a tongue formed

on said body and curved for facilitating its free end over the body, the free end of said tongue being split and providing angularly projecting extensions having their



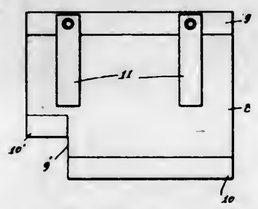
inner facing edges disposed at substantially right angles, the outer side edge and ends of said extensions being rounded to provide cam surfaces.

1,389,846. LASTING-JACK. REID B. SCOTT, Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company, a Corporation of Connecticut. Filed Oct. 8, 1919. Serial No. 329,292. 7 Claims. (Cl. 12—123.)



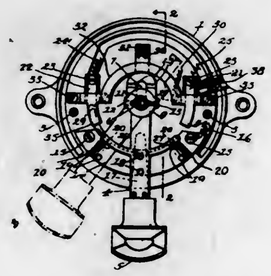
1. A last jack comprising a casing constituting the upper member of a clamp, a ball within said casing having means for engaging and supporting a last, a ball-engaging member below said ball and adapted to frictionally engage the same and a resilient member acting to move said ball-engaging member upwardly to clamp the ball against a member of the casing.

1,389,847. AUTOMOBILE ATTACHMENT. JOSEPH M. SEARS, Lockhart, Tex. Filed May 25, 1920. Serial No. 384,062. 2 Claims. (Cl. 74—81.)



1. In combination with the floor board of an automobile having clutch pedal openings formed therein, a protecting member formed of flexible material, protecting strips secured to the front and rear edges of the protecting member, and means secured to the protecting member for normally urging the same into engagement with the floor board to close the clutch pedal openings.

1,389,848. THREE-WAY SWITCH. CLAUDE DE F. SMITH, New York, N. Y., assignor to Smith Signal Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 24, 1920. Serial No. 353,722. 15 Claims. (Cl. 200—4.)



1. A three-way switch having a blade provided with a mounting whereby it can be swung laterally and moved longitudinally, right and left stationary contacts engageable by swinging, and a third contact engageable by longitudinal movement of the blade, the relations being such that the blade engages the third contact through longitudinal movement irrespective of its position in respect to swinging and when so moved does not engage either of the right and left contacts.

1,389,849. COMMERCIAL INSTRUMENT. GEORGE B. STILLWAGON, Redstone township, Fayette county, Pa. Filed Nov. 6, 1919. Serial No. 336,106. 3 Claims. (Cl. 283—60.)

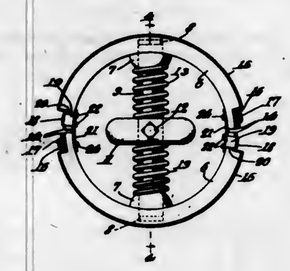


1. A store check comprising a sheet having thereon columns starting adjacent one edge with the highest number which corresponds to the value of the check, contrasting markings extending parallel to and across said columns and dividing the numbers thereof into multiples of a given value, the numbers at the adjacent ends of alternate pairs of adjacent columns being successive, whereby the amount of a purchase in any transaction within the total value of the check may be deducted from said check by removing in a single piece from the body of the sheet a portion carrying one or more of such numbers equivalent to the amount of such purchase.

1,389,850. ENGINE-CYLINDER DRESSER. OTTO STROBERGER and REZIE E. LEE, Creighton, Nebr. Filed Nov. 1, 1920. Serial No. 421,016. 1 Claim. (Cl. 51—194.)

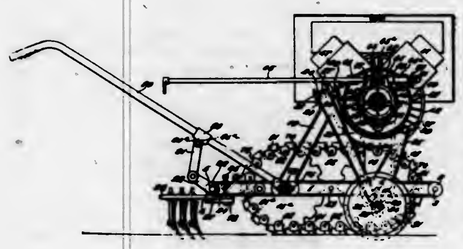
A device of the character described, comprising a pair of complementary semi-cylindrical sections each of which being provided with a recess in its inner face and located at diametrically opposite points, said sections being also provided with longitudinal recesses upon their outer faces and at their longitudinal edges, abrasive sheets embracing the outer faces of the sections and having their ends disposed in the recesses, clamping bars holding one end of each sheet in position, and resilient clips disposed in the

other recesses and holding the opposite ends of the sheets in place, a pin having its ends engaged in the recesses, a shank adapted to be connected with a rotating tool and provided with an eye at one end through which the pin extends and has positive connection therewith, coil



springs on the pin bearing against the eye and sections to urge the latter away from each other, plates carried by the inner face of each section, each of which being provided with a slot, and a pin carried by each section and engaged in the slot.

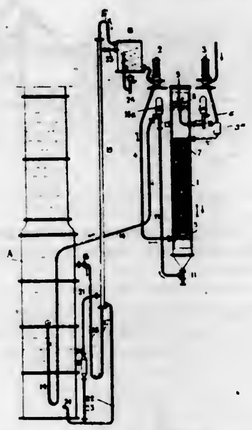
1,389,851. TRACTOR. HENRY C. BAINES, East Cleveland, Ohio, assignor to The Baines Engineering Company, Canal Dover, Ohio, a Corporation of Ohio. Filed Feb. 19, 1919. Serial No. 278,041. 7 Claims. (Cl. 180—9.1.)



1. The combination, with a motor shaft, of a sprocket on said shaft, connections between said shaft and said sprocket for driving the latter at a speed different from that of said shaft, a pair of tractor tread sprockets, a tread or track on the last mentioned sprockets, a hub on one of the last mentioned sprockets, a sprocket on said hub, and a chain on the first and last mentioned sprockets.

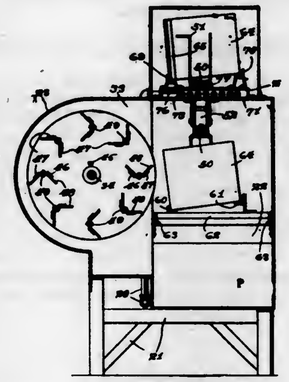
1,389,852. PROCESS AND APPARATUS FOR THE CONTINUOUS TREATMENT OF FUSEL-OIL. EMILE AUGUSTIN BARBET, Paris, France. Original application filed Mar. 6, 1914, Serial No. 822,953. Divided and this application filed June 10, 1918. Serial No. 239,314. 14 Claims. (Cl. 195—15.)

1. A process for the continuous treatment of fusel oil recovered in the distillation of alcohol, which consists in causing said oils coming from the fractioning column to be levitated, by the production in a column of the oil of bubbles of vapor, to a cooling vessel at a higher level than that of the washing apparatus, so that the oil may rise through the said washing apparatus to a low level of which it is led, passing a constant stream of water into said washing apparatus at a high level thereof, withdrawing the washed fusel oil at a higher point of the washing apparatus than that of the entry of the washing water



and withdrawing the washings at a lower point of the washing apparatus than that of the entry of the fusel oil.

1,389,853. WASHING-MACHINE. GEORGE S. BLAKESLEE, Chicago, Ill. Filed Apr. 20, 1916. Serial No. 92,387. 7 Claims. (Cl. 141—7.)

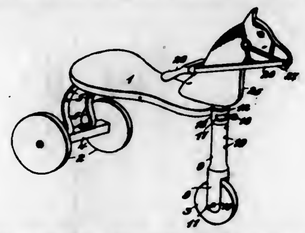


2. The combination of a tank adapted to contain water, a slideway extending longitudinally thereof, means for throwing water across and upon said slideway, a second slideway located above said first-named slideway, curved guides adapted to control the movement of an article to be cleaned from said first-named slideway to said second slideway, heating means adjacent to said second slideway adapted to dry the articles supported by said second slideway, and means for forwarding an article to be cleaned along said first-named slideway, along said curved guiding means into position upon said second slideway, and thence along said second slideway.

1,389,854. ADJUSTABLE CAR FOR CHILDREN. CHATTIN BRADWAY, New York, N. Y. Filed Sept. 13, 1917. Serial No. 191,123. 4 Claims. (Cl. 208—165.)

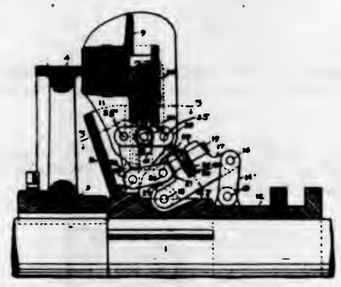
1. A child's car including a seat, an axle, wheels on the axle, a plurality of springs connected with the axle,

and means for adjustably connecting the springs to the seat for varying the distance between the axle and seat,



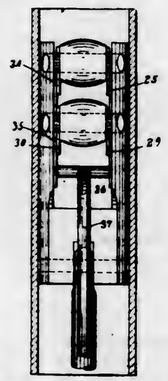
said means comprising apertures spaced apart longitudinally of each spring, and fasteners on the seat engaging in the apertures.

1,389,855. FRICTION-CLUTCH. JULIEN A. BRIED, Oakland, Calif., assignor to Meese & Gottfried Company, a Corporation of California. Filed Feb. 20, 1919. Serial No. 278,131. 5 Claims. (Cl. 192—73.)



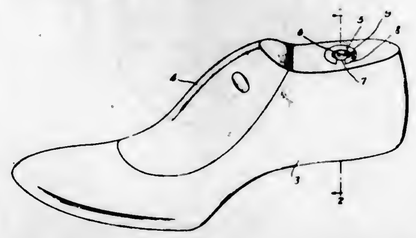
1. In a friction clutch, a friction ring, inner and outer shanked jaws adapted to grip said ring, a carrier, said inner jaw being guided by said carrier, a guide plate removably secured to the carrier and serving as a guide for said outer jaw, said carrier and inner jaw being arranged to permit of the bodily removal of the inner jaw in an axial direction upon the removal of the guide plate and means of connection between the jaws which means is fulcrumed directly upon the carrier.

1,389,856. PIPE-BENDING. LOUIS H. BRINKMAN, Glenridge, N. J. Filed May 23, 1919. Serial No. 299,175. 13 Claims. (Cl. 153—40.)



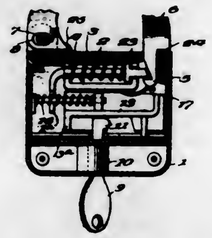
1. In pipe bending apparatus, the combination with means for bending the pipe, of means for supporting the pipe on its interior comprising rotating bodies bearing upon each other and against the pipe walls and a frame supporting said bodies in proper relative positions longitudinally of the pipe, but having clearances permitting said bodies to adjust themselves transversely of the pipe whereby the pressure is taken up between the bodies without imposing undue strain on said frame.

1,389,857. LAST-MARKER. JOSEPH BURGER, Richmond Hill, N. Y. Filed Mar. 2, 1921. Serial No. 449,119. 3 Claims. (Cl. 12—139.)



1. The combination with a shoe last, of a metallic thimble embedded therein and provided with a marker on the inner wall thereof adjacent the outer exposed end of the thimble and visible from the top of the last, said marker indicating the size of the last in which the thimble is seated and being protected from blows directed against the last or the thimble to thereby provide a permanent marking for the last and one which will be accessible even when a shoe is in position or in process of manufacture on the last.

1,389,858. PADLOCK. CARLOS CAMPANILE, Ensenada, Argentina. Filed Apr. 28, 1921. Serial No. 465,109. 10 Claims. (Cl. 70—97.)



6. In a seal lock, the combination of a shackle; a bolt for locking the shackle; means for operating the bolt; means for carrying a seal; means for defacing the seal incidental to the movement of the bolt operating means; a cover having a sight-opening covered by transparent material for rendering the seal inaccessible from the exterior of the lock while permitting inspection of the seal; a lug carried by the cover and adapted to be engaged by the shackle when the latter is in closed position to lock the cover closed; and a hinged guard to protect the transparent material of the sight opening against damage.

1,389,859. TAPER GRAB. FRANK LESLIE CHRONISTER, Edmond, Okla. Filed Nov. 5, 1920. Serial No. 421,985. 1 Claim. (Cl. 24—126.)

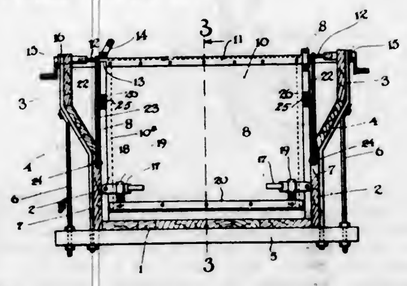
A taper grab comprising a body of tapering form, said body being elongated and of circular cross section, one end being flattened and provided with an aperture therein, a ring held in said aperture and adapted for attachment to a pull cable, said body having a smooth external surface

and provided with a groove extending throughout the length thereof at one of the sides of the flattened portion, a split ring mounted on the body and having a groove



transversely at the inside thereof to register with the groove of the body, and a connecting member between the ends of the ring.

1,389,860. SCOOP-BOARD. WILLIAM JAMES COMBS, Otterbein, Ind. Filed Mar. 17, 1920. Serial No. 366,473. 2 Claims. (Cl. 296—59.)



1. In combination with a bed having flaring side walls, of a scoop board for closing the rear thereof, plates secured in vertical position at the rear end of the body, the scoop board being arranged between the plates, said board having at its top a transverse bar provided at each end with a threaded stem, the plates having notches for permitting the passage of the stems, and having latch plates for preventing disengagement of the stems, sockets having cranks journaled in the sides of the bed and movable longitudinally toward and from the stem and internally threaded to engage the stems, latches pivoted to the plates at each side of the lower end of the scoop board, the board having keepers for engagement by the latches, and folding arms arranged between the threaded stems and the plate for supporting said scoop board in horizontal position, said board having a stop for engaging the end of the bed when it is lowered to limit the inward movement of the board.

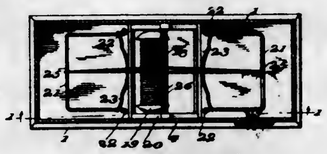
1,389,861. MANUFACTURE OF POTASSIUM SULFATE. PAUL COMMENT, Mülhausen, Alsace, France, assignor to Société Fabriques de Produits Chimiques de Thann et de Mulhouse, Rue de la Merzeau, Mülhausen, Alsace, France. Filed Dec. 20, 1919. Serial No. 346,318. 7 Claims. (Cl. 23—13.)

1. A process of making potassium sulfate of high degree of purity, from potassium bisulfate and potassium chlorid, which process consists in finely grinding the two compounds, making a homogenous mixture of the powders and heating the mixture.

1,389,862. MANUFACTURE OF POTASSIUM SULFATE. PAUL COMMENT, Mülhausen, Alsace, France, assignor to Société Fabriques de Produits Chimiques de Thann et de Mulhouse, Rue de la Merzeau, Mülhausen, Alsace, France. Filed Dec. 20, 1919. Serial No. 346,319. 4 Claims. (Cl. 23—13.)

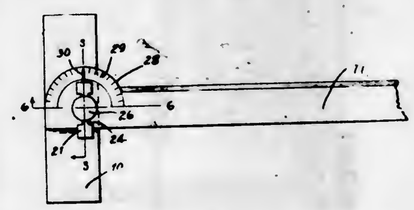
1. A process for making potassium sulfate (free from chlorid) and hydrochloric acid, which process consists in mixing finely pulverized potassium chlorid with sulfuric acid in such proportion that the moist mixture remains as pulverulent as possible and heating the mixture.

1,389,863. TWINE-HOLDER. WESLEY CRABTREE and WALTER ALLEN CRABTREE, Portsmouth, Ohio. Filed May 21, 1918. Serial No. 235,794. 2 Claims. (Cl. 242—146.)



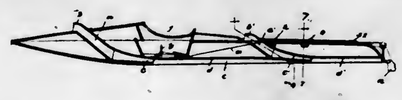
2. In a device of the character specified, a twine holder comprising a reel, a support for the reel, substantially U-shaped members hinged to the end of the support, each having an eye at the end remote from the support through which the twine is adapted to pass, and a pair of rods above the reel arranged approximately parallel with the axis thereof in spaced and parallel relation between which the twine passes.

1,389,864. T-SQUARE. EUSTACE D. EFSTRATIADES, Newark, N. J. Filed Aug. 10, 1920. Serial No. 402,515. 2 Claims. (Cl. 33—100.)



1. A T-square including a head and a leg pivotally connected thereto, of a protractor scale mounted on the leg and extending over the head, a clamping arm for holding the leg in adjusted positions, and a needle point carried by the arm and arranged to traverse the protractor scale.

1,389,865. BOAT. FREDERICK L. FOX, Washington, D. C., assignor of one-fourth to Henry I. Meader, one-fourth to Donald B. Phillips, and one-fourth to Charles D. Davis, Washington, D. C. Filed Apr. 17, 1916, Serial No. 91,650. Renewed May 25, 1921. Serial No. 472,577. 9 Claims. (Cl. 114—66.5.)



1. A boat having a channel or cavity formed on its bottom and provided with a flue extending through its hull and communicating at its lower end with the forward end of said cavity, this flue being provided at its upper forward end with an air-gathering funnel, said lower discharge end of the flue being restricted in area as compared with the intake end of the flue to thereby compress the air before it is delivered under the boat.

1,389,866. FURRING-STRIP. FRANKLIN T. GEORGESON, CLARENCE E. TABOR, and LEONARD B. POTFAIRE, Eureka, Calif. Filed Aug. 30, 1920. Serial No. 406,999. 3 Claims. (Cl. 72—120.)

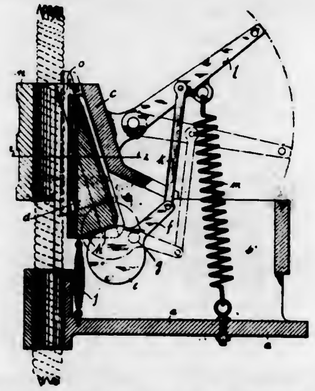
2. In a furring strip, the combination of an elongated piece of wire forming a body, said wire having eyes

formed therein in pairs at longitudinally spaced points, and oppositely disposed prongs secured in the eyes for



attaching the strip to its supporting structure and a fabric to the strip respectively.

1,389,867. SAFETY DEVICE FOR MINE-CAGES, LIFTS, AND THE LIKE. WILLIAM GRIFFIN, Wilnecote, near Tamworth, England. Filed May 2, 1919. Serial No. 294,276. 5 Claims. (Cl. 187—81.)



1. A safety device for mine cages having in combination, an attachment plate for securing on the top of the cage, a pocket part rigid with said plate and sliding on the cage guide as the cage travels, an inclined wall to said pocket, a loose wedge in said pocket with a face toward the guide, an eccentric below said wedge for operating same, independent means for withdrawing said wedge, and means connected to the supporting means for the cage for operating said eccentric, all of said parts being carried on said attachment plate.

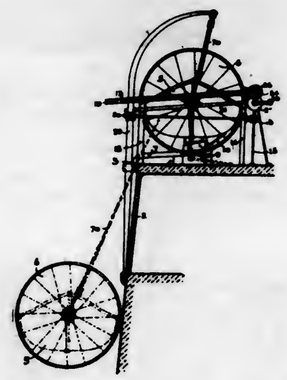
1,389,868. PIPE-COVER. WILLIAM LAFAYETTE GUY, Seward, Alaska. Filed Jan. 15, 1920. Serial No. 351,531. 4 Claims. (Cl. 131—12.)



Serial No. 351,531. 4 Claims. (Cl. 131—12.)

1. In combination with a pipe, of a ring secured to the open top of the bowl with its inner face approximately flush with the inner surface of the bowl, and a dome shaped cover having a draft tube, said cover and ring having interengageable means for holding the cover in place, and a draft tube leading outwardly from the dome and thence longitudinally of the axis of the bowl to near the bottom of the bowl.

1,389,869. LAUNCHING DEVICE FOR LIFEBOATS. GEORGE FREDERIC HALL, Providence, R. I. Filed Dec. 23, 1918. Serial No. 268,080. 8 Claims. (Cl. 9—22.)



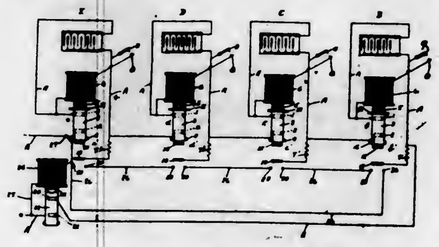
1. In a launching device for lifeboats the combination of a part of the side and a part of the deck of a ship intersecting at a gunwale, two parallel rails above said deck extending at right angles to said side and inclining downwardly in the same plane and curving over and terminating outwardly of said gunwale, uprights upon said deck supporting two other rails paralleling each other and said first named rails, a traveler movable along each said second named rails, mechanism including rotatable means adapted to move said travelers in unison forward and backward along said second named rails, a lifeboat equipped with a trunnion positioned at the middle of the bow and another at the middle of the stern on the level axial line of the lifeboat, each trunnion engaging one of said travelers, said lifeboat equipped with detachable fenders, radially curving from said axial line, fitted to support it from and adapt it for lateral travel along said first named rails to a position overhanging said gunwale, means adapted to actuate the traveler mechanism to move said equipped lifeboat laterally of its length to said position of overhang, means adapted to limit endwise movement of the lifeboat throughout its lateral progress and the whole so assembled and adapted that said lifeboat is fended from contact with said deck or gunwale or side of the ship during such progress.

1,389,870. TIRE-CHAIN. MONROE LYLE HENDERSON, Moore, Mont. Filed June 15, 1920. Serial No. 389,059. 1 Claim. (Cl. 152—14.)



A non-skid device comprising a pair of spaced parallel longitudinally curved attaching plates adapted to be arranged transversely of a tire, a pair of spaced parallel traction bars secured intermediate their ends to the outer side of one of said attaching plates, and a V-shaped traction device inclusive of a pair of diverging branches secured to the other of said attaching plates, the ends of said parallel traction bars being beveled and secured to the intermediate portions of said branches for bracing said V-shaped traction device.

1,389,871. APPARATUS FOR CHARGING STORAGE BATTERIES. WILLIAM R. HERSH, Dayton, Ohio. Filed Apr. 12, 1920. Serial No. 373,120. 3 Claims. (Cl. 171—314.)



1. In an apparatus of the character described, a main circuit having means for connecting a plurality of storage batteries therein in series, a resistance circuit for each storage battery, and means controlled by the respective storage batteries and operating automatically to disconnect said storage batteries individually from said main circuit when each storage battery has received a predetermined charge, to connect the corresponding resistance circuits with said main circuit as the respective storage batteries are disconnected therefrom, to maintain the current uniform at the storage batteries which have not been disconnected, and to interrupt said main circuit after the last storage battery has been disconnected therefrom.

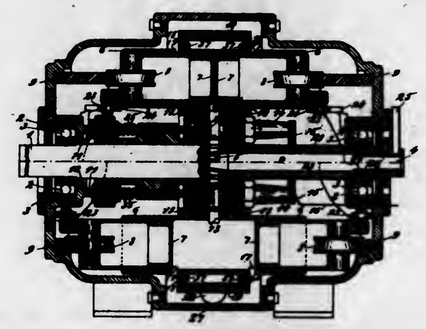
1,389,872. BOOKKEEPING APPARATUS AND THE LIKE. FERDINAND M. HOLMES, Everett, Mass. Filed Apr. 27, 1916. Serial No. 94,062. Renewed Feb. 2, 1921. Serial No. 441,993. 11 Claims. (Cl. 283—1.)



1. An entry indicator for an account sheet, comprising an accounting device which is adapted to be extended across the face of a sheet of account that has sundry kinds of entries, distinguished from each other by occupying different combinations of columns, the said indicator being characterized by the fact that it indicates a particular selection of the various columns on the sheet, the columns so selected being the particular columns occupied by the parts of an entry of the kind to which the indicator relates, and also indicating one or more columns to be avoided in making an entry of said kind.

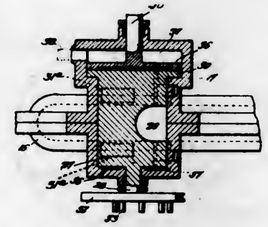
1,389,873. FOUR-CYCLE INTERNAL-COMBUSTION ENGINE. CARL ALRIK HULT, Stockholm, Sweden. Filed Sept. 9, 1919. Serial No. 322,754. 2 Claims. (Cl. 123—43.)

1. In a four cycle internal combustion engine in combination, a plurality o. cylinders placed symmetrically around and parallel to the engine shaft and open at both ends, two pistons in each cylinder, working to and from each other at the same time and at equidistance from the transversal center of the cylinder, each piston being provided with a roller or the like, two annular tracks placed concentrically around the engine shaft against which the piston and rollers work, the rollers running on the annular tracks and coöperating with curves so shaped as to actuate and guide the in and outward movements of each piston into one long stroke of expansion, one still longer stroke of exhaust, one short stroke of suction, one still shorter stroke of compression and one slight movement at the time of ignition, during at least one turn of the engine shaft, openings (17) for the exhaust gases, so placed in the cylinders as to be automatically uncovered by the pistons near the end of the expansion stroke, valves (10) coöperating with said openings, leaving a free passage for the air to sweep through the cylinders during a part of the expansion- and exhaust-strokes, a cam track (9) actuating the valves (10) by means of the rollers (8), a guide or cam track (12) guiding the outward stroke of



suction, by means of the rollers (23), an inlet pipe (4) for the gas mixture with an opening (5), channels (13) leading from the inlet pipe to the cylinders, spark plugs situated in said channels, a ring (15) composed of electrically non-conducting material and uniting the spark plugs, and an electric cable (16) sliding on said ring.

1,389,874. ROTARY STEAM-ENGINE. ALBERT C. JOHNSON, Stillwater, Minn. Filed Aug. 20, 1920. Serial No. 404,749. 2 Claims. (Cl. 121—71.)

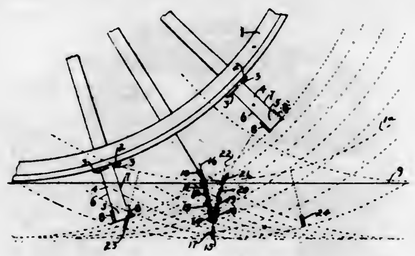


1. A rotary engine comprising a cylinder formed at diametrically opposite sides with extensions constituting valve cages and formed at diametrically opposite points with intake ports leading into the end portions of said extensions, inlet pipes leading into said extensions, said cylinder also being provided with outlet ports, a shaft journaled through the cylinder, a rotor on said shaft and provided with diametrically opposite pistons, a rotary valve within each extension and having a cut-way portion for the passage of said pistons at certain predetermined points in the relative rotation of the rotor and valve, each valve being provided with a port adapted to register with the associated intake port of the cylinder, a disk within each extension having a port with which the port in said valve is adapted to register, means for rotating said valves simultaneously, said means comprising toothed wheels carried by said valves and mounted eccentrically thereon, and an elliptical toothed wheel carried by the shaft and meshing with said toothed wheels.

1,389,875. TRACTOR-WHEEL. ALFRED C. JOHNSON, Winters, Calif. Filed June 18, 1919. Serial No. 304,991. 8 Claims. (Cl. 301—41.)

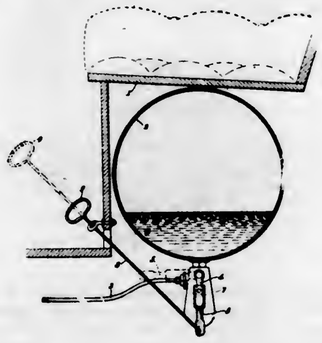
1. A traction element adapted to be mounted upon the periphery of a tractor wheel and including laterally extending terminal blades of greater width than thickness

spaced a distance from the periphery of the wheel greater than the width of said blades, said blades being arranged



edgewise with relation to the axis of the wheel, and substantially parallel therewith.

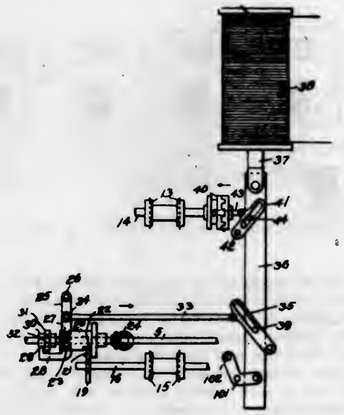
1,389,876. AUTOMOBILE GASOLENE-SHUT-OFF APPARATUS. ALBERT C. KEPPLER, Newburgh, N. Y., assignor to Sunderman Corporation, Newburgh, N. Y., a Corporation of New York. Filed Apr. 4, 1918. Serial No. 226,631. 4 Claims. (Cl. 137—139.)



1. In an automobile having a seat, the combination of a gasolene tank beneath the seat, a conduit leading from said tank, a stop cock and its lever for said conduit, adapted to shut off the flow of gasolene through said conduit, with a member detachably secured to said stop cock lever and a link pivotally secured to said member and extending upwardly to a point adjacent said seat whereby the same may be conveniently operated by the operator from the said seat to open and close said stop cock and adapted to operate said stopcock when pulled or pushed in a direction longitudinally of the link.

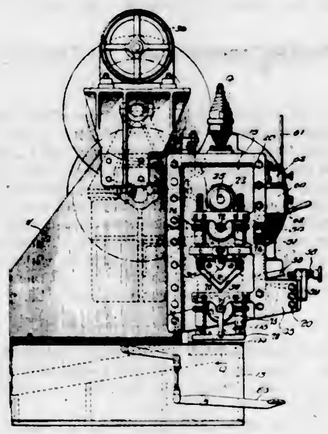
1,389,877. MOTION-PICTURE AND TARGET APPARATUS. GEORGE A. KERESTES, Pittsburgh, Pa., assignor to Novelty Amusement Co., Pittsburgh, Pa., a Corporation of Delaware. Filed May 20, 1919. Serial No. 298,406. Renewed Dec. 1, 1920. Serial No. 427,657. 13 Claims. (Cl. 124—15.)

1. In apparatus of the class described, a motion picture machine having a shutter and a film feed mechanism, a target, and means actuated by the impact of a bullet on the target and coacting with the film feed mechanism for



arresting the movement of the film without stopping the shutter.

1,389,878. COMBINATION COPING AND NOTCHING MACHINE. HANS B. KRAUT, Chicago, Ill. Filed Mar. 4, 1919. Serial No. 280,612. 10 Claims. (Cl. 164—15.)

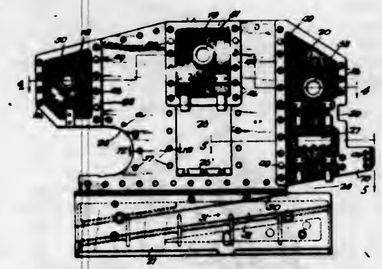


1. In a machine for the purpose set forth, a frame embracing side plates that overlap rearwardly on the frame and are provided with overhanging integral extensions to constitute a bolster support for a coping and notching mechanism, a reciprocating slide in said frame carrying an overhanging coping and notching blade holder, cooperating with said mechanism, an operating shaft for said slide, and bearings on said plates for said shaft.

1,389,879. FRAME FOR METAL-CUTTING MACHINES. HANS B. KRAUT, Chicago, Ill. Filed Mar. 4, 1919. Serial No. 280,613. 21 Claims. (Cl. 164—15.)

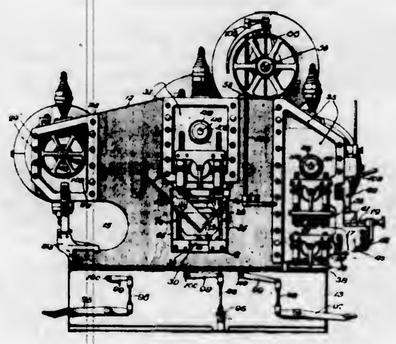
1. A machine frame comprising an intermediate cast metal member flanged to provide ways that open at one

side thereof, plates attached to said intermediate member, the plate on the side of the member toward which the



ways open being interrupted at said ways, and removable cover plates over said ways.

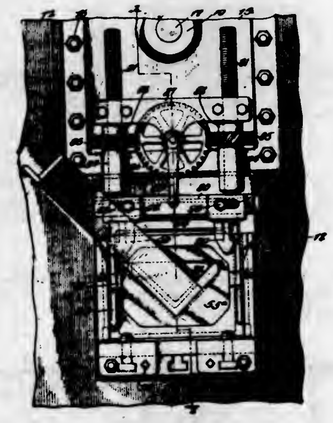
1,389,880. COMBINED PUNCHING, SHEARING, SECTION-CUTTER, BAR-CUTTER, AND COPING AND NOTCHING MACHINE. HANS B. KRAUT, Chicago, Ill. Filed Mar. 4, 1919. Serial No. 280,615. 9 Claims. (Cl. 164—15.)



1. A combined punching, section cutting and shearing machine embracing a frame having transverse clearance openings opening at one side of and extending through the frame of the machine, coöperating tools at said openings and tool operating gear mechanism and supporting brackets therefor located wholly at and supported on the other side of the machine frame above said clearance openings.

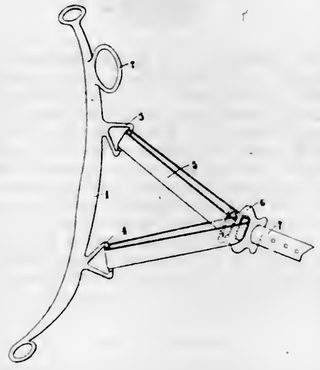
1,389,881. METAL-SECTION CUTTER. HANS B. KRAUT, Chicago, Ill. Filed Mar. 4, 1919. Serial No. 280,616. 17 Claims. (Cl. 164—52.)

1. In a section cutting machine, the combination with a fixed blade and a movable blade having side contact with each other throughout the throw of the movable blade, of holder means to lock said blades in place, embracing seats in said holder means with which said blades interlock, pressure elements acting flatwise on the blades and



wedge means acting between the pressure elements and holder means to press the blades together.

1,389,882. HARNESS. MARGARET CAROLINE THURLOW LAMB, Bowdon, England. Filed July 24, 1919. Serial No. 313,128. 2 Claims. (Cl. 54—1.)

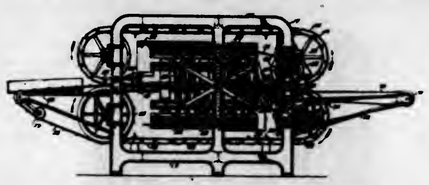


1. A harness comprising a hame provided with a pair of spaced eyes having runners therein, the lowermost of said eyes being positioned at a point located at a substantial distance below the usual point of draft, a trace provided on its ends with a member, said member being provided with a pair of eyes having runners therein, and an endless band extending from one of said eyes on the hame to one of said eyes on the member of the trace; back to the other of said eyes on said hame; then through the other eye of said member and finally back to the first mentioned eye of said hame.

1,389,883. FIBER-EXTRACTING MACHINE. WILLIAM OREN LAMBERT and GEORGE HERBERT POUND, El Paso, Tex. Filed Mar. 18, 1920. Serial No. 366,742. 26 Claims. (Cl. 13—18.)

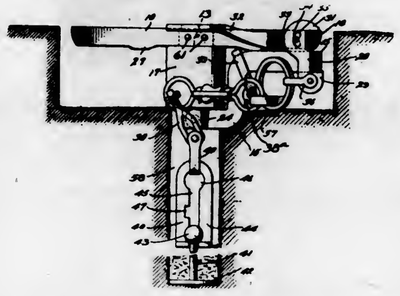
2. In a machine of the character specified, reversely driven alined shredding members, a feeder at one side of

the shredding members adapted to grip the butts of the articles and move the latter through the machine and



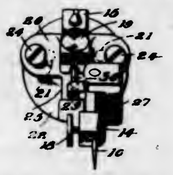
from one to the other of the shredding members, and cutting means disposed adjacent the inner side of the feeder to sever the shredded body of the article from the butt.

1,389,884. TRAP. WILLIAM R. LAZENBY, Hardin, Mont. Filed Feb. 3, 1920. Serial No. 356,098. 7 Claims. (Cl. 43—92.)



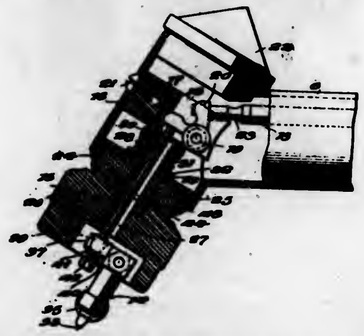
7. A trap including a pair of links bifurcated at their opposite ends, a pair of jaws having one terminal of each respectively pivoted within one of the bifurcations of one link and within one of the bifurcations of the other link, co-acting means provided on the pivoted end of each jaw serving to limit the opening of the jaws, a bail having its terminals pivoted within the remaining bifurcated portion of each link, housings including cylindrical telescopic sections each provided with a closed end having an opening therethrough, the bifurcated portions of the links adapted to extend through the openings in said housing sections, means for effecting relative separation of said sections, and a trigger controlled retaining device adapted to co-act with the bail and one of the jaws to hold the trap in open set position.

1,389,885. STYLUS-HOLDER FOR TALKING-MACHINES. FRANK D. LEWIS, West Orange, N. J., assignor to Pathe Freres Phonograph Company, Brooklyn, N. Y., a Corporation of Delaware. Filed June 7, 1920. Serial No. 387,030. 6 Claims. (Cl. 274—28.)



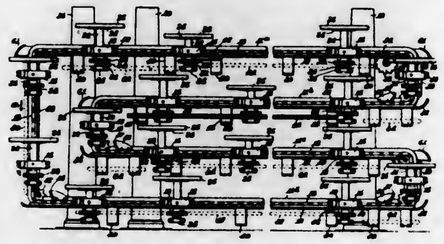
4. In a talking machine, the combination of an axially vibratory transmission element; and a duplex stylus-holding attachment comprising a pair of separate stylus-holding members, one mounted to vibrate vertically and the other to vibrate laterally, one of said members being connected immediately to the transmission element to directly effect its prescribed axial vibrations, and means interposed between the transmission element and the other member for transforming the vibrations of the latter into axial vibrations of said element.

1,389,886. STYLUS-HOLDERS FOR TALKING-MACHINES. FRANK D. LEWIS, West Orange, N. J., and GUSTAVE NEMNICH, New York, N. Y., assignors to Pathe Freres Phonograph Company, Brooklyn, N. Y., a Corporation of Delaware. Filed June 7, 1920. Serial No. 387,031. 11 Claims. (Cl. 274—28.)



1. The combination of a non-rotatable arm movable over a record; a diaphragm and a stylus holder mounted on opposite ends of said arms; and vibration transmission means connecting the diaphragm and holder, said holder being adjustable between playing position for vertical-cut records and playing position for lateral-cut records.

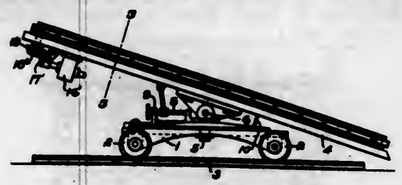
1,389,887. MACHINE FOR COOLING CHOCOLATES AND THE LIKE. FREDERICK W. LEYLAND, Cambridge, and EDWARD P. BROCK, Boston, Mass. Filed Feb. 9, 1920. Serial No. 357,361. 30 Claims. (Cl. 34—12.)



30. In a device of the class described, a traveling carriage having a vertical slot in one end thereof; parallel horizontal tracks for said carriage, the lower of said tracks having a curved upward extension; a vertical guide above said lower track adapted to coact with said slot; a roller on the top of said vertical guide; rollers on the front side of said carriage coacting with said curved extension; rollers on the rear side of said carriage; and curved tracks with which said rear rollers coact.

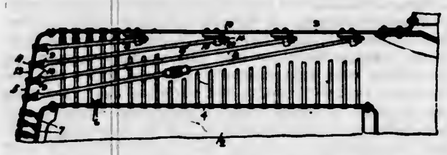
1,389,888. MATERIAL-HANDLING APPARATUS. EDWARD MCGOWAN, Mulberry, Kans., and PRESTON UPHAM, Boston, Mass.; said Upham assignor of his entire right to Sullivan Machinery Company, Claremont, N. H., a Corporation of Massachusetts. Filed Feb. 24, 1916. Serial No. 80,275. 14 Claims. (Cl. 193—8.)

1. Loading apparatus for use in loading coal in mines comprising, in combination, an inclined plate providing at its lower end a scraping edge, a support on and with which said plate may be advanced into the work as a unit, and a pair of relatively adjustable scraper conveyer units



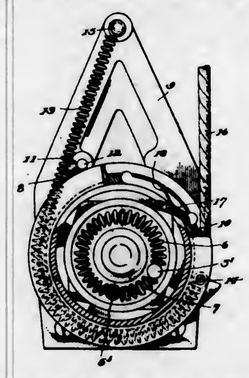
operatively mounted on said plate and providing two adjacent runs of chain having projecting scrapers moving in the same general direction for scraping the coal up said inclined plate, and over the top thereof into a mine car.

1,389,889. BOILER-BRACE. ROBERT J. MCKAY and FREDERICK R. COOPER, Pittsburgh, Pa., assignors to The Breakless Staybolt Company, McKees Rocks, Pa., a Corporation of Delaware. Filed July 29, 1916. Serial No. 112,019. 3 Claims. (Cl. 122—493.)



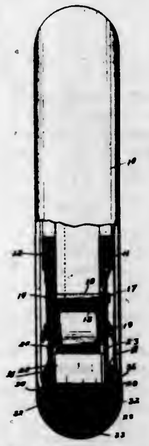
1. The combination of a bracket secured to the inner wall of the top boiler or roof-sheet, a diagonal stay-rod loosely and detachably fastened to said bracket, a plug in the boiler-head flexibly connected to the rod, said stay-rod and flexible connection being sufficiently small to pass through the plug opening in the back boiler-head, whereby the rod and its flexible connection may be inserted through the plug opening and the parts connected, though slightly out of alinement.

1,389,890. STARTING MECHANISM FOR MAGNETOS. SAMUEL CHRISTOPHER MCKEOWN, Newark, N. J., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Filed July 11, 1917. Serial No. 179,848. 9 Claims. (Cl. 123—149.)



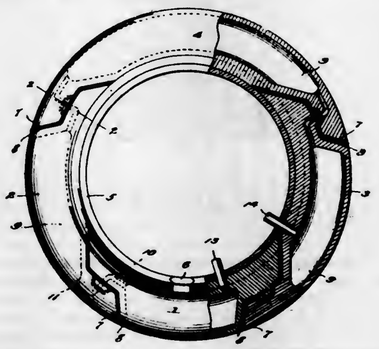
1. An ignition apparatus including a magneto having a flux shifting member, means for rotating said flux shifting member including a spring for pressing said flux shifting member in the direction of its normal rotation, a manually operated member movable in a path concentric to the axis of rotation of said flux shifting member, devices acting automatically for connecting said manually shiftable member with the flux shifting member for turning said flux shifting member in a direction opposed to the spring, means for automatically releasing said flux shifting member from said devices to permit the flux shifting member to be operated by the spring for producing a current for starting ignition, and means for preventing said devices from making connection with the flux shifting member until again manually operated for moving the flux shifting member.

1,389,891. VEHICLE-WHEELS. SAMUEL J. MARDIS, Johnstown, Pa. Filed Jan. 3, 1921. Serial No. 434,755. 4 Claims. (Cl. 152—29.)



3. A vehicle wheel including a pair of disk members, an annular supporting member included between said disk members, a cushion surrounding said supporting member, a series of thrust members arranged radially between said disks and beyond said cushion, a tire member positioned between the disks so as to engage said thrust members and extending beyond the sides of the disks, projections on the tire extending between the thrust members and a casing shoe positioned over said tire member and engaging the sides of the disks.

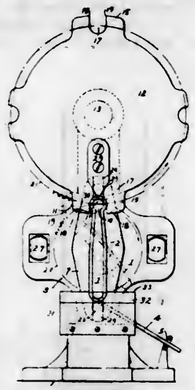
1,389,892. COLLAPSIBLE CORE. THOMAS MIDGLEY, Sr., Hampden, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed Mar. 19, 1919. Serial No. 283,534. Renewed Feb. 2, 1921. Serial No. 441,929. 7 Claims. (Cl. 18—45.)



1. In a collapsible core, a plurality of core sections shaped to form an annulus, means whereby said sections

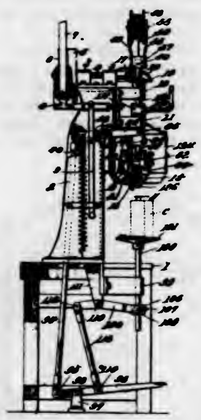
may be heated including a connection for the heating medium adapted to be established through the abutting ends of the sections when the latter are assembled, and means for holding the sections in assembled relation.

1,389,893. MACHINE FOR MAKING WIRE CLOTHES-PINS. JOHN MUCK, Milwaukee, Wis. Filed Nov. 4, 1918. Serial No. 260,981. 9 Claims. (Cl. 140—83.)



2. A machine for forming clothes pins from wire, including the combination of a rotary bobbin having loop forming marginal portions, and an intermediate portion parallel with the axis about which the bobbin rotates into which the wire may be pressed from the sides of the adjacent marginal portion to form a head, a relatively constricted neck, and a rotary die for pressing the wire against the bobbin and into the neck forming portion thereof.

1,389,894. SOLDERING-MACHINE. THOMAS MYHRUM, Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Mar. 1, 1920. Serial No. 362,614. 22 Claims. (Cl. 113—87.)



1. A soldering machine including in combination, a rotating head, a soldering iron carried thereby and located at one side of the axis of the head, a chuck for centering the article to be soldered relative to the head, a support for the articles to be soldered, means for yieldingly mounting the chuck so that it may move lengthwise of the axis of the head, and means for raising the support and the chuck to bring the seam into range of the soldering iron.

1,389,895. ELECTRICAL SIGNALING AND INDICATING DEVICE FOR SHIPS AND OTHER VESSELS. RODOLPH STUART O'NEIL, London, England, assignor to O'Neil's Recorder Syndicate Limited, London, England. Filed Oct. 27, 1920. Serial No. 419,845. 5 Claims. (Cl. 177—327.)



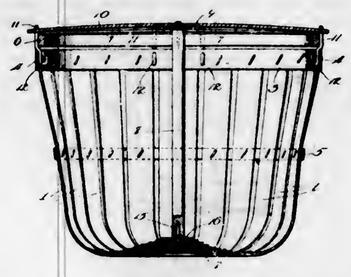
1. An indicator case for electrical signaling on ships and other vessels; comprising an inclosing case, a dial fitted to said case, said dial having a principal aperture the illumination of which serves to indicate general direction, and said dial having a plurality of subsidiary apertures the illumination of each of which serves to indicate some specific particular, a reflector chamber structure located within said case beneath said principal dial aperture, said structure having a transparent top and having a plurality of lateral windows each glazed with transparent material of differing colors, a cellular structure within said case having cells adjacent to said reflector chamber structure said cells having openings communicating with said windows of said reflector chamber structure, electric lamps in said cells the light rays from one or other of which pass through said windows into said reflector chamber structure and by reflection illuminate the principal aperture of said dial in accordance with the color of said window through which said light rays pass, said cellular structure having a closed cell located beneath each subsidiary aperture of said dial, each of said cells having an aperture immediately beneath said subsidiary apertures of said dial, a glass plate of a desired color to close said aperture of each cell beneath said subsidiary aperture of said dial, and an electric lamp in each cell beneath each subsidiary aperture of said dial the light rays from said electric lamps passing through the colored glass plates and illuminating the subsidiary apertures aforesaid, whereby general direction is indicated by reflection through said principal aperture of said dial and particular direction is indicated by light rays passing through one or other of said subsidiary apertures of said dial.

1,389,896. VENTILATOR. ARNOLD PFAU, Milwaukee, Wis. Filed June 12, 1916. Serial No. 103,062. 3 Claims. (Cl. 4—21.)



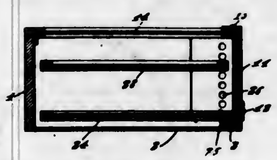
1. In combination, a water closet bowl, conduit means having a constriction formed by gradually converging and diverging communicating portions, a water supply communicating with said gradually converging conduit portion, and gas conduit means connecting said bowl with said gradually diverging conduit portion beyond said constriction.

1,389,897. SHIPPING-BASKET. WILLIAM L. PITTS, Marshall, Tex. Filed May 3, 1919. Serial No. 294,468. 3 Claims. (Cl. 217—124.)



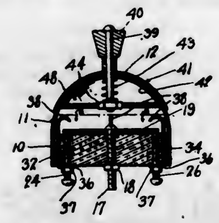
1. A basket having two pairs of diametrically opposed loops secured to its rim and projecting upwardly therefrom, a cover fitting within said loops, two fastener slats secured to said cover at right angles to each other and having projecting ends engaging said loops, and a center post secured to the bottom of the basket and adapted to support the central portion of the cover and maintain said fastener slats in snug engagement with said loops, substantially as described.

1,389,898. SHOWCASE OR SCREEN. WILLIAM B. PRATTOR, Mount Pleasant, Tex. Filed Sept. 1, 1920. Serial No. 407,290. 2 Claims. (Cl. 40—102.)



1. In a device of the class described, a cabinet comprising a back, a fixed side, a top and a bottom; a movable side hinged to the back and provided with outstanding top and bottom plates; a leaf mounted to swing in the top and bottom plates, the top and the bottom of the cabinet being cut away to give access to the leaf, and the top and bottom plates constituting closures for the cut away portions of the top and the bottom; and a door hinged to the movable side.

1,389,899. SWITCH. FLETCHER S. RIGGS, Marshall, Tex. Filed Aug. 9, 1920. Serial No. 402,154. 3 Claims. (Cl. 200—5.)



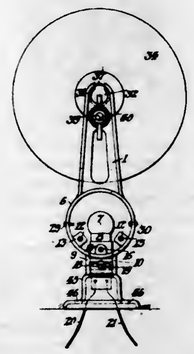
1. A switch comprising a base, formed as a disk of insulating material, a central contact extending through and secured with respect to said base, a plurality of equally spaced outer contacts extending through and secured with respect to said base, upwardly extending contact members secured to said second named contacts and terminating in considerable spaced relation to the base, a metallic shell secured externally upon said base and of hemispherical shape, said shell being provided in its top with a substantially cruciform opening having arms corresponding in number to the number of said second named contacts, an outer shell of partially spherical formation slidable externally upon said first named shell, a post provided with a handle and secured through said second named shell and extending through said opening, an inner shell of partially spherical shape conformingly engaging against the inner periphery of said first named shell and mounted on said post, a spider member carried by said last named shell, said shell being connected with said first named contact, and said post being movable into any arm of said opening in order to bring said spider member into contact with the upper end of either one of said last named contacts.

1,389,900. METHOD OF HERMETICALLY ATTACHING CAN-ENDS TO CAN-BODIES. DANIEL P. ROBINSON, Baltimore, Md., assignor to Continental Can Company, Inc., Syracuse, N. Y., a Corporation of New York. Filed Oct. 3, 1918. Serial No. 256,733. 2 Claims. (Cl. 113—112.)



1. The method of hermetically attaching can ends to can bodies, comprising forming a flange on the can body, applying solder to the flange for closing all slits near the edge thereof, placing a non-metallic sealing material between the can end and the flange on the can body, subsequently forming the flange on the can body and the edge of the can end into a double seam.

1,389,901. AUTOMOBILE ACCESSORY. EDWIN M. ROSENBLUTH, Wallingford, Pa. Filed Dec. 18, 1919. Serial No. 345,860. 24 Claims. (Cl. 240—7.)

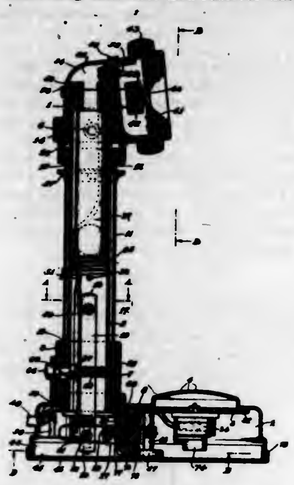


23. The combination with a bracket including two oppositely counterpart members having at one end supporting means arranged to detachably connect them with a vehicle; and forming a lamp casing; of screw means inside said casing, arranged to clamp said bracket members together; and a lamp in said casing.

1,389,902. TELEPHONE INSTRUMENT OR THE LIKE. OSCAR A. ROSS, New York, N. Y. Filed Apr. 26, 1918. Serial No. 230,963. 8 Claims. (Cl. 179—167.)

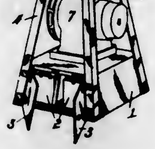
6. In a portable telephone instrument, a base normally adapted to support said instrument, a transmitter unit

contained within said base, a receiver unit, a body portion rigidly connecting said base and receiver unit, means



for holding said instrument when in service, said means by relative movement with said body portion controlling the circuits of said instrument.

1,389,903. PORTABLE CARRYING MEANS FOR ELECTRIC GENERATOR-SETS. CHARLES E. ROWLAND, Toledo, Ohio. Filed July 19, 1920. Serial No. 397,382. 3 Claims. (Cl. 294—15.)



1. An electric generator set carrying means, comprising a hollow base member for receiving storage batteries and supporting a motor generator unit, and frame bars rising from the base member at spaced intervals around the same and united at their upper ends.

1,389,904. T-SQUARE GUIDE. HERBERT F. RUDOLPH, Milwaukee, Wis. Filed Feb. 16, 1920. Serial No. 358,854. 1 Claim. (Cl. 33—76.)

The combination with a drawing board having a grooved rail, of a T-square attaching means comprising a rectangular attaching plate provided with folded longitudinal edges constituting guides and an upturned rear edge for securement to the head of a T-square, an integral centrally disposed tongue upset from the plate body, a one-piece sheet metal shoe in telescopic union with an attaching plate, the shoe comprising a shank-plate portion having a centrally disposed end slot engageable with the attaching plate tongue, the shank-plate portion being extended beyond the width of the plate body at its inner end and upturned to form a rail engaging toe, the surface of which toe is cut away intermediate of its ends to form two points of contact with the rail at a distance apart, approximately equal to the width of a T-square blade, whereby friction is reduced and the tendency of the T-square blade to wabble is resisted, a tongue upset from the shank-plate portion near its inner end, and a spring connecting the shank-plate tongue and attaching

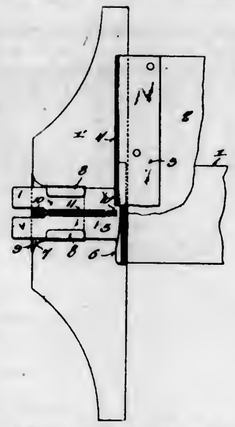


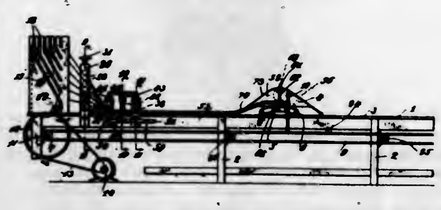
plate tongue, adapted to draw the telescopic plates together, whereby the working edge of the T-square head is yieldingly held to the surface of the board.

1,389,905. MANUFACTURING HEADS OF PUPPETS, DOLLS, AND LIKE ARTICLES. ENRICO SCAVINI, Turin, Italy. Filed Sept. 10, 1919. Serial No. 322,846. 10 Claims. (Cl. 18—19.)



1. The herein-described method of manufacturing heads of puppets, dolls and the like, which consists in hot pressing in a matrix a piece of sized felt with a piece of thoroughly starched, hot, wet fabric arranged on the surface of the felt and intended to form the interior surface of the finished article.

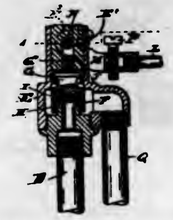
1,389,906. FABRIC-LAYING APPARATUS. ISAAC SEGAL, New York, N. Y. Filed July 12, 1919. Serial No. 310,415. 7 Claims. (Cl. 270—30.)



1. In a cloth folding machine, the combination with a carrier, of a table adapted to run thereon, means located

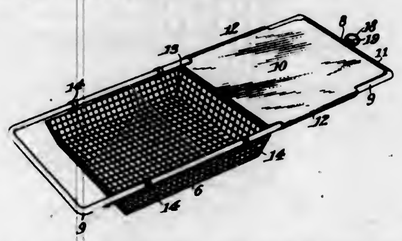
upon said carrier for grasping the cloth so that the carrier will pull the same over said table, a plurality of presser rolls carried by the table adapted to engage the cloth being piled thereon, and means upon said carrier for lifting said presser rolls from the cloth as the carrier passes thereby.

1,389,907. WATER-INLET VALVE FOR TANKS. WILLIAM SHERWOOD, Detroit, Mich. Filed Oct. 30, 1920. Serial No. 420,766. 5 Claims. (Cl. 137—104.)



5. In a device of the character described, a water inlet pipe for a flushing tank, a valve chamber fitted to the end of said pipe having a discharge pipe leading from said valve chamber into the flushing tank, a divided plunger valve fitted to the valve chamber, adapted to seat against the flow of water into the latter, a cup-washer located between the divided portions of the plunger, a valve disk, a collar screwed to the lower end of said plunger adapted to support the valve disk and to loosely encircle the valve seat, a float lever, a hook-shaped bifurcated fitting secured to the end of the float lever fulcrumed on trunnions integral with the valve chamber, a transverse pin connecting the bifurcated fitting with the plunger valve, an adjustable screw supported in the end of said bifurcated fitting to limit the tilting action of the float lever, and an after-fill pipe leading from the valve chamber and adapted to discharge into an overflow pipe.

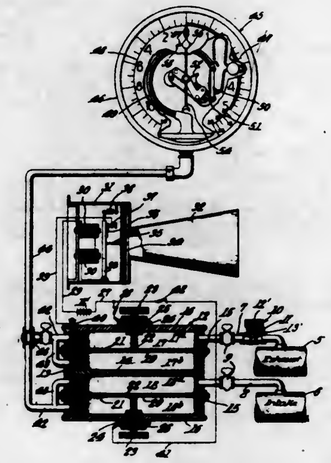
1,389,908. DISH-DRAINER. HARRY SHULTS and CALVIN R. DUNN, Gloversville, N. Y. Filed Aug. 27, 1920. Serial No. 406,343. 2 Claims. (Cl. 141—11.)



1. A dish draining device, comprising a frame consisting of wire bent into a rectangular form, adapted to rest on a sink, a platform secured to one end of the frame and portions of its sides and a dish draining receptacle secured to the frame and occupying the space at its other end so as to depend in the sink.

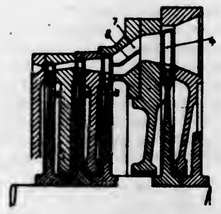
1,389,909. INDICATOR. RALPH L. SKINNER, Sacramento, Calif. Filed Sept. 18, 1919. Serial No. 324,424. 2 Claims. (Cl. 116—117.)

1. The combination with the intake and exhaust manifolds of an internal combustion engine, of a signal having a pair of hands adapted to be moved simultaneously in a given direction, means for communicating pressure from said exhaust manifold to said signal whereby said hands are moved simultaneously in a clockwise direction, means for communicating pressure from said intake manifold whereby said hands are moved in an anticlockwise direction, means for severing connection between the exhaust



manifold and the signal and simultaneously establishing communication between the intake manifold and signal.

1,389,910. MULTISTAGE AXIAL-FLOW STEAM OR GAS TURBINE. PAUL SPIESS, Zürich, Switzerland. Filed Mar. 31, 1921. Serial No. 457,343. 3 Claims. (Cl. 253—69.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

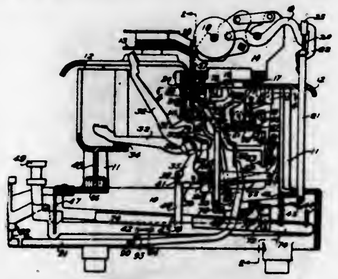


1. In a multistage axial flow steam or gas turbine having a guide channel S-shaped in longitudinal axial section for conveying the driving medium from one rotor wheel to a similar one of considerably different diameter; a partition or guide wall arranged within this channel, said partition having a form corresponding to the sectional shape of the channel, the rotor wheels being of the usual type having blades that extend without obstruction from the rotor disk periphery to the bounding rings, whereby the total quantity of steam or gas working on the blades of one wheel is guided over to the blades of the next following rotor wheel.

1,389,911. TYPEWRITER. CHARLES SPIRO, New York, N. Y., assignor to Federal Adding Machine Corporation, New York, N. Y., a Corporation of New Jersey. Filed Mar. 1, 1920. Serial No. 362,248. 14 Claims. (Cl. 197—28.)

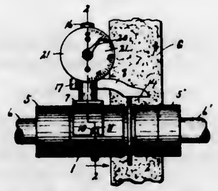
1. In a typewriter, a frame, a key lever pivoted at the rear thereof, a typebar action unit comprising a detachable fulcrum bar secured upon said frame above and intermediate the ends of said key lever, a segment supported

from said bar, a sublever pivoted upon said bar, a link pivotd to said sublever and connected to the key lever by



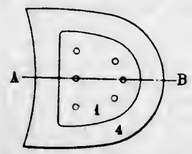
an inserted pivot, and a typebar upon said segment connected to said sublever.

1,389,912. DEVICE FOR POSITIONING AND MEASURING OPTICAL AXES OF LENSES IN EDGE-GRINDING MACHINES. ERNEST STEAD, Binghamton, N. Y. Filed Mar. 31, 1916. Serial No. 87,979. 3 Claims. (Cl. 33—172.)



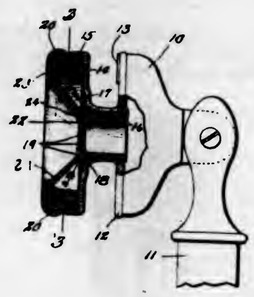
1. The combination with a rotary lens-holder and a lens-pattern in fixed relation to the holder and coaxial therewith, the lens being adjusted rotarily and radially in the holder to bring its optical axes into alinement with the corresponding axes of the pattern, of means for determining the angular position of the axes of the lens relatively to those of the pattern comprising a saddle resting on the periphery of the holder and provided with a feeler in proximity to the lens in the holder and alined with one of the optical axes of the lens pattern, and means for holding the saddle against turning relatively to the lens holder.

1,389,913. HEEL OF BOOTS AND SHOES. WILLIAM D. STERNBERG, London, England. Filed Dec. 17, 1920. Serial No. 431,515. 3 Claims. (Cl. 36—36.)



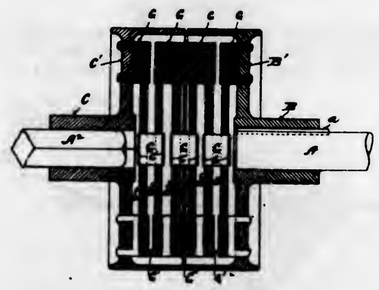
1. A two-part resilient heel for boots and shoes comprising a carrier member, and an outer wearing member having a line of juncture extending to the tread surface, an integral projection or projections on one of the members and a coöperating part or parts on the other serving to hold the members in position when the carrier is attached to the shoe, both members having substantially the same resiliency, the wearing member being sufficiently elastic when stretched to pass over the carrier and force the projection or projections into closely locked relation with the coöperating part or parts whereby dirt and grit cannot enter between the two members when the boot or shoe is in use.

1,389,914. ANTISEPTIC MOUTHPIECE FOR TELEPHONES. FRANK C. TABLER, St. Louis, Mo., assignor to The Anti-Bacilli Company, St. Louis, Mo., a Corporation of Missouri. Filed Nov. 17, 1919. Serial No. 338,658. 3 Claims. (Cl. 179—185.)



1. An antiseptic mouthpiece for telephone transmitters comprising a housing formed in two sections, the rear section being provided with a tubular extension adapted to be secured in the transmitter, the front section being provided with an inwardly extending conical wall, said two sections having threaded engagement with each other, a chamber being thus formed between the conical wall and rear section, and an antiseptic material in said chamber, which is held in position by and between said two sections.

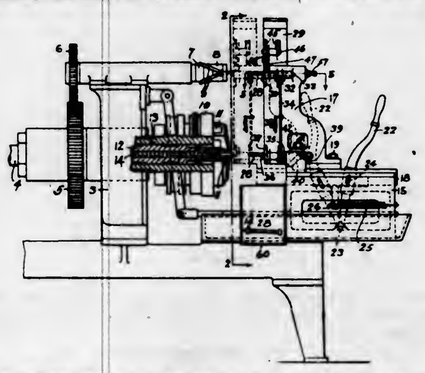
1,389,915. UNIVERSAL JOINT. GEORGE H. THOMAS, Westfield, N. Y., assignor to Flexible Couplings Company, Westfield, N. Y., a Corporation of New York. Filed May 6, 1918, Serial No. 232,819. Renewed Jan. 7, 1921. Serial No. 435,759. 5 Claims. (Cl. 64—96.)



5. In a flexible coupling for shafts, in combination, a laminated metal annulus constituting a torque transmitting member, said annulus having a pair of radially opposed notches on its inner and outer edges, and a common means to bind together the laminations of said annulus and to transmit drive thereto including a flanged block having a relatively heavy wall lying against said annulus and having right angled projecting walls snugly fitting said notches and having means to press said annulus against said first mentioned wall.

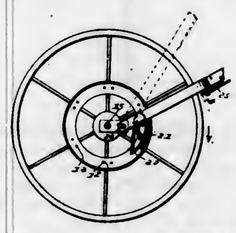
1,389,916. FEEDING MECHANISM FOR BOLT-MACHINES. HANSON THOMAS, Pittsburgh, Pa. Filed Dec. 16, 1919. Serial No. 345,283. 17 Claims. (Cl. 10—162.)

1. In bolt feeding mechanism, the combination with a plurality of bolt finishing mechanisms, of a frame movable toward and from said mechanisms, means for supporting the bolts in position on said frame, and means



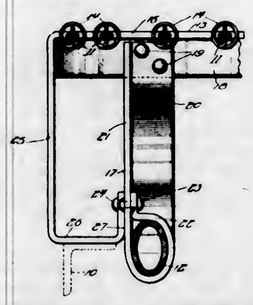
for delivering a bolt by gravity from one mechanism to the other.

1,389,917. BRAKE MECHANISM FOR TRUCKS. CARL LEWIS THOMPSON, New Lisbon, Wis., assignor of one-half to Charles A. Leicht, Sr., New Lisbon, Wis. Filed Aug. 31, 1920. Serial No. 407,258. 4 Claims. (Cl. 188—119.)



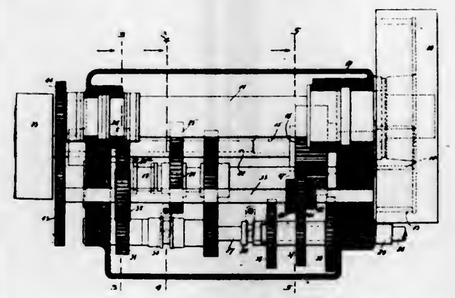
1. In a brake for baggage trucks, drums secured to the front wheels of the truck, a tongue mounted to oscillate with relation to the drums, a brake beam mounted on the tongue structure near its inner end, shoe carried by the brake beam engaging the said drums, and means for holding the tongue at different positions of adjustment.

1,389,918. MATTRESS-FRAME. DON CARLOS TRAVIS, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed June 9, 1919. Serial No. 302,653. 8 Claims. (Cl. 5—63.)



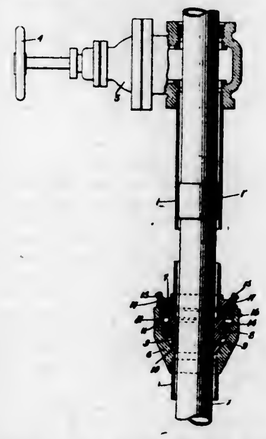
1. In bedstead construction, the combination of a supporting side rail, a flexible fabric, an angle iron crosspiece to which one end of the fabric is connected, a stretcher tube at a lower elevation than the fabric, an angle iron riser connecting the end of the stretcher tube with the cross-piece and having its lower end looped to embrace the tube, an outrigger engaging the side rail, and a tie member uniting together the loop ends and the inner end of the outrigger.

1,389,919. HEADSTOCK MECHANISM OF LATHES. WALLACE E. WARD, Rochester, N. Y., assignor to Arthur H. Ingle, Rochester, N. Y. Filed Aug. 25, 1919. Serial No. 319,639. 6 Claims. (Cl. 82—29.)



1. Headstock mechanism of lathes, comprising a high speed drive shaft, a work spindle, change speed gearing connecting said shaft with said spindle including a pair of spaced apart constantly driven gears, a feed shaft having an extension axially alined therewith, connections for driving said shaft extension in either direction from said constantly driven gears including a disconnecting clutch, and feed mechanism connected to be driven from said spindle including a set of feed change gears loosely mounted on said feed shaft extension and including a disconnecting clutch.

1,389,920. WELL. PAUL WEAVER, Tampico, and HOMER C. CRAIG, Potrero del Llamo Camp, Mexico, assignors of one-half to Whitehall Petroleum Corporation, Limited, London, England, a Corporation of Great Britain and Ireland. Filed May 5, 1920. Serial No. 378,971. 22 Claims. (Cl. 166—1.)



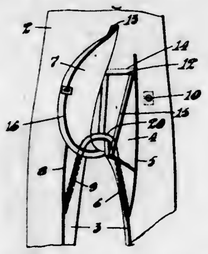
1. Apparatus for use with wells comprising an inner casing and an outer casing, said apparatus comprising a device adapted to be secured to the outer casing and including means slidable at an angle to the axis of said casings to close or open the space between the casings.

1,389,921. APPARATUS FOR SPINNING, DOUBLING, AND TWISTING YARNS OR THREADS OF FIBROUS SUBSTANCES. THOMAS WHITEHEAD, Blackpool, England. Filed Feb. 17, 1919. Serial No. 277,559. 5 Claims. (Cl. 118—60.)



1. The combination with a spindle and means for rotating it, of an independently driven ring carrier constituting a bearing for the spindle, and a self adjusting bearing for the carrier.

1,389,922. UNION-SUIT. CHARLES N. WINSHIP, Wakefield, Mass., assignor to Winship, Bolt & Co., a Copartnership consisting of Charles N. Winship and Elizabeth E. Bolt, Wakefield, Mass. Filed May 8, 1919. Serial No. 295,606. 5 Claims. (Cl. 2—144.)



1. A union suit of the closed crotch type provided with a posterior opening having an upper edge extending transversely of the body of the garment, a flap for covering said opening and extending for a substantial distance above the upper edge of said opening, one edge of said flap being secured to the body of said garment and the opposite edge being free, the body portion of said garment and said flap having coöperating means to fasten the flap in its closed position, and the body of said garment having a structurally integral part thereof extending underneath the upper portion of said flap with the lower edge of said part forming said transverse upper edge of said posterior opening.

1,389,923. CONTAINER. PHILIP ZALKIND, New York, N. Y. Filed Apr. 23, 1918. Serial No. 230,204. 7 Claims. (Cl. 229—7.)

6. In a container having walls adapted to lie flat and to be folded to position in setting up the container for use, means whereby the contents of the container are removable therefrom, and a measuring device associated with the walls of the container and the aforesaid means and adapted to be collapsed when the walls of the container lie flat against one another and to be opened for use when the walls of the container are set up to position for use.

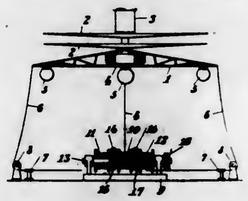


1,389,924. HAIRPIN. ISAIAH N. ZELLER, Chicago, Ill. Filed Apr. 29, 1919. Serial No. 293,455. 3 Claims. (Cl. 132—50.)



3. A hair pin comprising prongs extending adjacent one another, resilient means pressing said prongs toward one another and adapted for manual operation to separate said prongs, said prongs being adapted to maintain their fixed angular relation to each other irrespective of the distance to which they are separated.

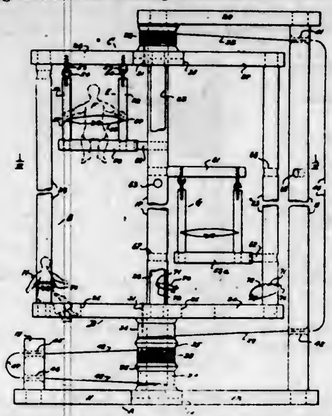
1,389,925. CAPTIVE FLYING-MACHINE OF THE HELICOPTER TYPE. WILHELM ZUROVEC, Fischamend, near Vienna, German Austria. Filed Mar. 9, 1920. Serial No. 364,606. 3 Claims. (Cl. 244—19.)



1. A captive flying machine of the helicopter type comprising in combination a frame having three arms arranged at angles of 120°, ropes arranged in the form of a trapeze, and means for securing the upper ends of the ropes to the ends of the said arms, as set forth.

1,389,926. TOY CAROUSEL. WALBORG AHLMGREN, New York, N. Y., assignor of one-third to Henry C. Karlson, Hasbrouck Heights, N. J., and one-third to Charles A. Bursell, New York, N. Y. Filed July 31, 1920. Serial No. 400,471. 12 Claims. (Cl. 46—27.)

1. A device of the character described including a rotatable member, a fixed member extending parallel therewith, positive means for imparting motion to the former, an oscillatable element carried by said member, and abutting means for causing oscillation of said element when the first member is rotated relatively to the second member.

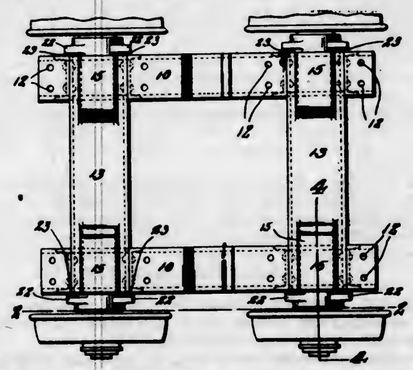


1,389,927. LOCK-NUT. AUGUSTUS A. BALL, Lynn, Mass. Filed July 15, 1918. Serial No. 244,870. 3 Claims. (Cl. 151—21.)



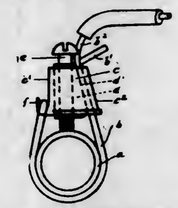
1. A lock nut having a plurality of extensions each connected with the body of the nut by a reduced section formed by an exterior groove adjacent the base and extending throughout the width of each extension and continuously about the nut, whereby bending of the extensions is facilitated.

1,389,928. TRUCK-FRAME FOR MINE-CARS. FRANK S. BARKS, St. Louis, Mo., assignor to Lincoln Steel and Forge Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 4, 1921. Serial No. 442,402. 19 Claims. (Cl. 295—42.)



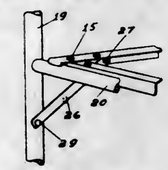
14. In a mine car truck, a journal box, and a frame member having a depressed portion to accommodate said journal box and having a floor supporting surface below the top surface of said journal box.

1,389,929. GROUND-WIRE CONNECTION. CHARLES J. BARROW, Hull, Mass. Filed Oct. 21, 1918. Serial No. 259,097. 9 Claims. (Cl. 287—54.)



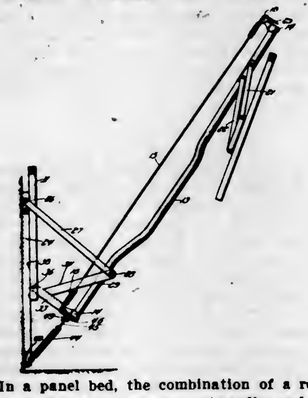
3. A connector comprising coöperating clamp members and a take-up element engaged with one of said clamp members and adapted to apply thrust to one of the connected things, said clamp members having complemental opposed gripping surfaces inclined to the line of thrust of said take-up device at one side thereof and adapted to grip a wire between them, and the connector having also provisions to hold the wire at the opposite side of the take-up device from said gripping surfaces.

1,389,930. BED-SPRING-FRAME. MATTHEW F. BAYER, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 31, 1919. Serial No. 286,513. 1 Claim. (Cl. 5—4.)



In an article of furniture, the combination of a post having a support extending laterally therefrom, a horizontal frame having an angle iron side member with a horizontal flange extended beyond the end of the frame and bent downwardly to engage the support, and a brace detachably connecting the angle iron and post at a distance from the intersection of the frame, and support for locking the downturned end of the angle iron flange against removal from the support.

1,389,931. PANEL-BED. MATTHEW F. BAYER, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Feb. 6, 1920. Serial No. 356,680. 2 Claims. (Cl. 5—54.)



1. In a panel bed, the combination of a relatively stationary vertical support, an outwardly and downwardly

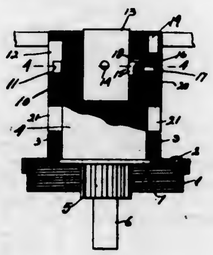
inclined link having its upper end pivotally connected to said support, a bed frame swingingly mounted relative to said support and having an intermediate point in its length pivotally connected to the lower end of said link, whereby the end of said bed-frame is forced toward said support, a supplemental head frame vertically slidable on said support, vertically spaced anti-friction rollers interposed between said support and said supplemental frame and means pivotally connecting said bed frame with the supplemental frame intermediate said rollers.

1,389,932. TREE-LIMB SUPPORT. GEORGE BOSMAJIAN, Fresno, Calif. Filed Aug. 23, 1920. Serial No. 405,319. 2 Claims. (Cl. 47—31.)



1. In a device for supporting the limbs of a tree, the combination of two hooks having extensions thereto, and means for clamping said extensions together at any selective place between the ends of said extensions.

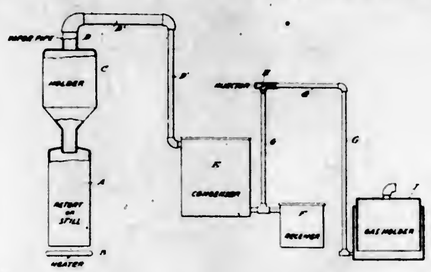
1,389,933. AUTOMOBILE-LOCK. FLETCHER O. BOSWELL, Philadelphia, Pa., assignor to American Wheel Company, Philadelphia, Pa., a Corporation of Delaware. Filed Oct. 11, 1920. Serial No. 416,107. 3 Claims. (Cl. 70—129.)



1. In a device of the character described, a stationary cap having clutch teeth formed thereon, a secondary steering post fitted to turn in said cap, said post having formed therewith a flange and a pinion, a steering wheel hub fitted to slide upon said post, clutch teeth formed with the lower edge of said hub for engagement with the first named clutch teeth, a stop screw partially threaded into the post and projecting into a slot formed in the hub, a lock secured within a central bore formed in the post, and two keeper recesses formed in the inner wall of the hub for the reception of the bolt of the lock to secure said hub in either of two positions.

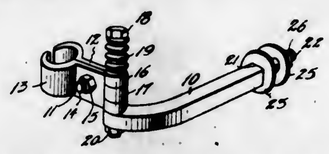
1,389,934. PROCESS OF REFINING HYDROCARBONS. CHARLES RUSSELL BURKE, Tulsa, Okla., assignor to Lulu Peters Burke, Washington, D. C. Filed Apr. 11, 1916. Serial No. 90,509. 4 Claims. (Cl. 196—25.)

1. The herein described process of refining hydrocarbons in a still operatively connected with a condenser, consisting in first distilling and cracking the oil in the still at substantially atmospheric pressure by the application of heat thereto, passing the resulting vapor into a holder arranged above the still capable of holding at one time the greater portion of the contents of the still within which holder is maintained a cushion of condensed vapors into which the vapor from the cracked oil finds its way and through which a portion of the same passes to the condenser, while the remaining portion is arrested



by the condensate in the holder and returns to the still to be revaporized.

1,389,935. WIND-GUARD. M. W. CARROLL, Jr., Dallas, Tex., assignor to Automotive Supply Manufacturing Company, Dallas, Tex., a Partnership composed of Lester L. Henderson, Ira V. Wilson, and John E. Owens. Filed Mar. 31, 1920. Serial No. 370,326. 1 Claim. (Cl. 296—84.)



In a wind guard, the combination with the post of a wind shield, of a horizontally swinging guard plate provided with transverse apertures spaced a substantial distance from the inner edge of the guard plate, arms extending through the apertures and clamped to the guard plate and disposed at a right angle to the guard plate, the inner end portions of the arms being longitudinally curved and extending inwardly, said arms being provided at their inner ends with transverse apertures and free from corrugations adjacent said apertures, upstanding bolts passing through the apertures of the arms, a pair of clamp members for each bolt, said clamp members being provided at their inner ends with a pair of jaws to engage the wind-shield post, means arranged near the jaws to draw the clamping members together, apertured knuckles carried by the outer ends of the clamp members and pivoted upon the bolt and serving to permanently secure the clamp members upon the bolt when the clamp members are opened, and a heavy coil spring surrounding the upper portion of the bolt and engaging the apertured knuckles.

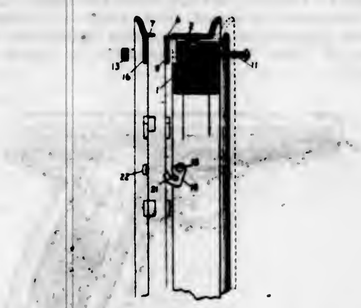
1,389,936. METHOD OF MAKING PAPER AND FIBER BOARD. ALBERT L. CLAPP, Danvers, Mass. Filed June 23, 1920. Serial No. 391,162. 6 Claims. (Cl. 92—14.)

2. A process which comprises digesting cellulosic material and beet pulp with heat and pressure in the presence of sodium carbonate, and then precipitating dissolved constituents of the beet pulp in and on the cellulose fibers.

1,389,937. VEHICLE-WHEEL RIM. JAMES H. COCKRILL, Oakland, Calif. Filed Nov. 30, 1917. Serial No. 204,612. 1 Claim. (Cl. 301—35.)

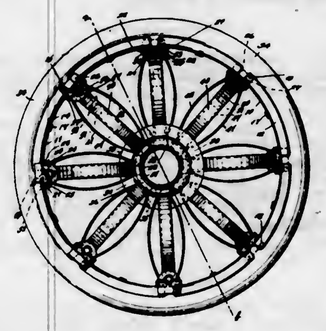
A demountable rim comprising two annular members adapted to be joined together, each member having a

plurality of inwardly radially projecting registering lugs with holes in said lugs for engagement of bolts, said annular members being provided with means for interlocking engagement comprising a plurality of studs, on one member, forming axes for keeper plates having serrated edges



and circular grooves for engagement with lugs on the opposed annular member, said lugs being coaxial with said studs.

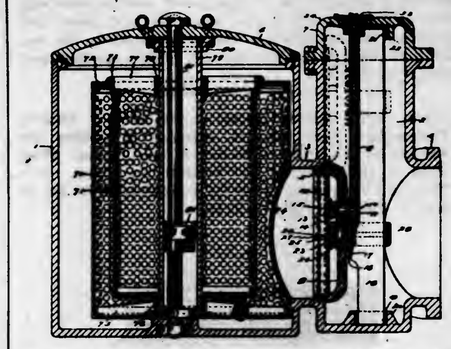
1,389,938. VEHICLE-WHEEL. JOSEPH L. COHEN, New York, N. Y. Filed Mar. 22, 1919. Serial No. 284,362. 9 Claims. (Cl. 152—29.)



4. In a wheel, a hub, a resilient rim provided with side flanges, a tire disposed upon said rim between said side flanges, and spoke members disposed between said hub and said rim, each comprising spring means and means connecting said hub and rim, said last named means being non-extensible from its normal position to prevent radial expansion of said rim and adapted to be contracted from its normal position, said flanges of said rim being provided with cut-out portions in alinement with the axes of said spoke members and adapted to permit said rim to be deflected locally contiguous to said spoke members as they are contracted.

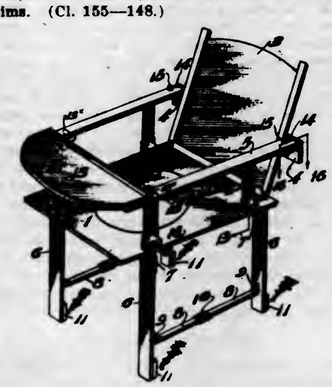
1,389,939. VALVE MECHANISM FOR LIQUID STRAINING OR FILTERING APPARATUS. PHILIP J. DARLINGTON, Greenfield, Mass. Original application filed Mar. 26, 1919, Serial No. 285,155. Divided and this application filed Mar. 10, 1920. Serial No. 364,646. 19 Claims. (Cl. 251—56.)

1. In a liquid straining apparatus, a box containing a valve chamber having an intake opening and an outlet opening and containing a sliding valve arranged to move over and close said outlet opening, a removable stationary guide bar slidingly supporting said valve and having an inclined surface acting with a corresponding inclined surface carried by said valve to clamp the valve against



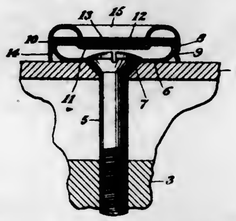
its seat when opposite said outlet opening, and means for sliding said valve.

1,389,940. CONVERTIBLE CHAIR. LISA E. ERBEAU, Camden, N. J. Filed Sept. 18, 1920. Serial No. 411,228. 4 Claims. (Cl. 155—148.)



1. A chair of the character stated, comprising a seat, a back hinged thereto, a supplemental back fixed to the rear of said seat, side arms hinged to the sides of the seat, and means connecting the rear ends of said arms with the ends of the top member of the last-named back.

1,389,941. SELF-LUMINOUS MARKER FOR WALL-SWITCHES AND LIKE OBJECTS. REINER W. EADLE, Weehawken, N. J., assignor to The Cold Light Manufacturing Company, a Corporation of Colorado. Filed May 25, 1918. Serial No. 236,556. 3 Claims. (Cl. 240—1.)



1. In combination in a luminous marker, a separable clamping shell having a seat thereon for the reception of

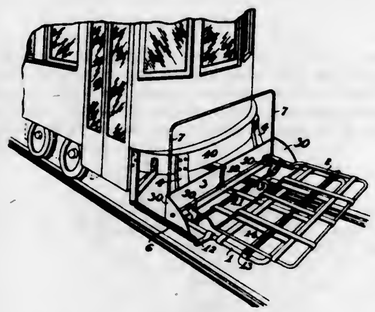
means for securing it to an object to be marked, an independent disk carrying thereon a luminous material, said disk fitting on said shell, a translucent covering over said luminous material and a cap fitting over said cover, disk and shell, thereby securing the parts together, the cap having an opening therein through which the luminous material is visible.

1,389,942. REINFORCED CONCRETE. EUGÈNE FREYSSINET, Paris, France, assignor to Societe des Navires en Ciment Armé, Paris, (Seine,) France. Filed June 6, 1918. Serial No. 238,579. 1 Claim. (Cl. 72—110.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



Metallic reinforcements for concrete consisting of sheets or layers each formed of wires conforming in shape to the surface of the finished structure and extending from end to end of the finished structure whereby the tenacity of the metal itself of which the wires are formed comes into play immediately upon any stress being imparted to said wires, bonds connecting the said wires at suitable distances along their length so as to form a trellis, the said sheets being superimposed so that the wires of each sheet form an angle with those of contiguous sheets, connections between the superimposed sheets, curved metal wires arranged in a direction generally normal to the surface of the finished structure and presenting equivalent elements on two lines equidistant from the surfaces and parallel to their general direction, the said elements being inserted in the interspaces of the said wires extending from end to end of the structure and adapted to exert in the neighborhood of the internal and external surfaces an equal and uniform resistance to lateral expansion of the concrete for the purpose of increasing greatly its capacity for deformation without rupture.

1,389,943. CAR-FENDER. WILLIAM BURDETT GARRARD, Victoria, British Columbia, Canada, assignor, by direct and mesne assignments, of one-fourth to Alfred C. Blackall and one-fourth to Thomas F. Adams, Seattle, Wash. Filed Oct. 21, 1920. Serial No. 418,433. 7 Claims. (Cl. 293—37.)



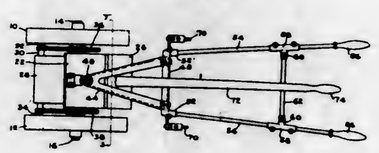
1. A safety car fender comprising a catch frame, a trip frame above and extending forwardly of the catch frame, both said frames being pivoted at their rear to swing vertically and separately, a spring acting to throw the catch frame down when released to contact its forward edge with the pavement, and supporting means for said frames releasable by backward movement of the trip frame.

1,389,944. SAFETY DEVICE FOR FIREARMS. GEORGE H. GARRISON, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a Corporation of Delaware. Filed Jan. 28, 1920. Serial No. 354,537. 13 Claims. (Cl. 42—3.)



1. In a firearm of the type having firing mechanism, a frame and a removable magazine in the frame; a trigger for operating said firing mechanism, safety means carried by said trigger engageable with a stationary abutment on the frame for locking the trigger against actuation and means operable by the insertion of the magazine for withdrawing said safety means from said abutment for permitting actuation of the trigger.

1,389,945. GARDEN-TRACTOR. GEORGE E. GUNTHER, St. Paul, Minn. Filed Dec. 27, 1919. Serial No. 347,750. 3 Claims. (Cl. 180—19.)



1. A garden tractor comprising a support, a motor mounted thereon, a pair of driving wheels upon which said support is mounted, driving connections between said motor and said driving wheels, an implement frame to which said support is pivoted at its top and bottom so as to be capable of swinging horizontally with relation to said implement frame, and a handle member rigidly attached to said support and extending rearwardly whereby the operator may guide the tractor.

1,389,946. PROTRACTOR-SCALE. PAUL JONES HARRIMAN, Akron, Ohio. Filed Sept. 20, 1920. Serial No. 411,484. 4 Claims. (Cl. 33—111.)



3. A protractor scale having a graduated straight line in which the graduations are consecutively numbered from 0 to 90 and in which the distance from the 0 to the 60 point indicates the unit on which the scale is based and the other graduations indicate, on the basis of the unit, distances from the zero point hereto which are equal to the sines of angles of one-half the number of degrees indicated by the numeral of the corresponding graduation.

1,389,947. ART OF COMPOUNDING FATS AND OILS. VALENTINE HISCHLER, Chicago, Ill., assignor to Wilson & Co., Inc., Chicago, Ill., a Corporation of New York. Filed Aug. 25, 1919. Serial No. 319,542. 5 Claims. (Cl. 99—13.)

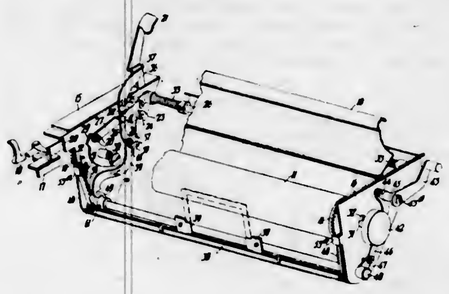
1. In the process of compounding fats, oils, etc., slowly cooling a liquid mixture of stearin and oil from a temperature slightly above the melting point of the stearin to a temperature slightly below its crystallising point in the presence of a small amount of substantially congealed mixture of stearin and oil and stirring the mixture during the cooling.

1,389,948. APPAREL-BUCKLE. ALLEN H. KERNGOOD, Baltimore, Md., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md., a Corporation of Maryland. Filed June 30, 1920. Serial No. 392,960. 5 Claims. (Cl. 24—188.)



1. An apparel buckle, having a frame provided with a tongue, a cross bar on which the tongue is mounted, and lugs projecting in opposite directions from the cross bar and adapted to be folded over the tongue and having interlocking means to secure the tongue on said cross bar.

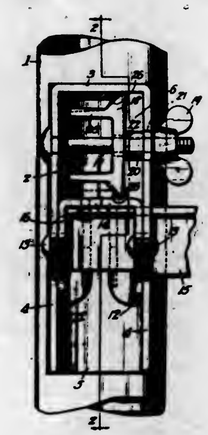
1,389,949. TYPEWRITING-MACHINE. ALFRED G. F. KUROWSKI, Brooklyn, N. Y., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 1, 1919. Serial No. 327,732. 9 Claims. (Cl. 197—135.)



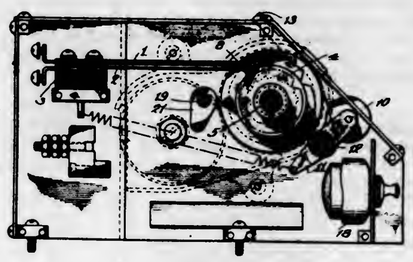
1. In a front-strike typewriting machine, the combination with a revoluble platen and a platen frame having ends, of a device for withdrawing said platen rearwardly in said frame, a card-holding device at the front of the platen and normally disconnecting therefrom, a finger-piece for connecting the card-holding device to the platen, and means for locking the withdrawing device by making the finger-piece effective.

1,389,950. CORNER-FASTENING. FRANK KUSTERLE, Kenosha, Wis., assignor to Simmons Company, Kenosha, Wis., a Corporation of Delaware. Filed Mar. 26, 1920. Serial No. 369,052. 10 Claims. (Cl. 5—55.)

1. In a device of the class described, the combination with an angle iron having a pair of angularly related flanges, of an end fastening therefor comprising a pair of abutments, and a locking member engaging against the edge of one flange and the face of the other flange for clamping both flanges against their respective abutments.



1,389,951. ATTACHMENT FOR CARD-SORTING MACHINES. CLAIR DENNISON LAKE, Binghamton, N. Y., assignor to The Tabulating Machine Company, a Corporation of New Jersey. Filed Sept. 24, 1920. Serial No. 412,571. 6 Claims. (Cl. 83—92.)

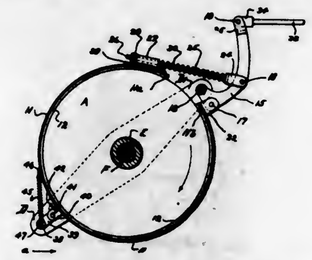


1. In an attachment for and driven by a card-sorting machine, the combination with normally separated contacts adapted to be connected up in the circuit of the sorting magnet, a cam and index wheel with divisions corresponding to the horizontal lines for punched holes in a card, and means for adjusting said cam and index wheel to close the contacts at any given point in the cycle, whereby only such cards as have holes corresponding to such adjusted position will be sorted out.

1,389,952. BRAKE MECHANISM. HUGO LANTZ, New York, N. Y. Filed Dec. 4, 1919. Serial No. 342,432. 20 Claims. (Cl. 188—77.)

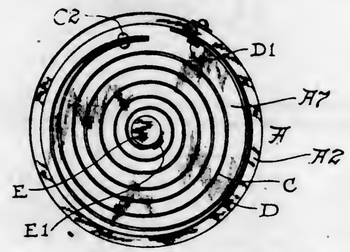
1. The combination with a rotatable drum and a brake band around the same, of an operating member for said band adapted to press one end thereof into a fixed posi-

tion against said drum, and a connection between said member and the other end of the band serving to draw



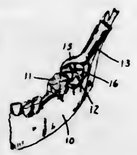
the latter in a single direction coinciding with the forward rotation of the drum when applying the brake.

1,389,953. SPRING-MOTOR. ALBERT F. LOEBKER, Knoxville, Tenn. Filed Apr. 8, 1920. Serial No. 372,175. 2 Claims. (Cl. 185—45.)



1. In a spring motor, the combination of a relatively rotatable casing and shaft, a stud supported by the casing, a main spring located within the casing and surrounding the shaft and having one end secured to the shaft, and an auxiliary spring located between the main spring and the rim of the casing and having one end secured to the outer end of the main spring and having its other end notched and astride said stud, substantially as described.

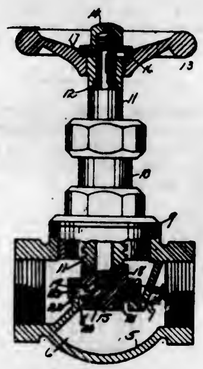
1,389,954. DENTAL TOOL FOR EXTRACTING LOWER MOLARS. GEORGE F. MCCOMBS, Connersville, Ind. Filed Oct. 25, 1920. Serial No. 419,423. 3 Claims. (Cl. 32—34.)



1. An instrument for extracting lower teeth including a shaft having its operating end formed with a curved bone cutting member, and an oppositely curved prying-lever for engaging and embracing the tooth to be extracted, whereby the twisting of said tool will cause said tooth to be gripped and removed.

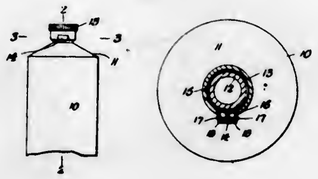
1,389,955. VALVE. GEORGE B. MCCRACKEN, Willimantic, Conn. Filed Apr. 28, 1920. Serial No. 377,214. 8 Claims. (Cl. 251—160.)

4. A valve structure comprising a valve body, a screw threaded sleeve extending into said body, a valve spindle located within said sleeve, a valve holder carried by said spindle, the back of said holder making contact with the end of said sleeve, a hand wheel secured to said sleeve and having a recess therein, a nut secured to said spindle, and a spring located in said recess and pressing against said nut thereby forcing the end of said sleeve and the back of said holder into close contact.



8. A valve structure including a supporting member, a valve spindle movably supported by said member, a valve holder carried by said spindle and having on one side a hub and on the opposite side a pocket for a valve with openings from the back of the holder and on opposite sides of said hub into said pocket, and a tool having branches with a space therebetween to receive said hub and pins on said branches to enter said openings, said tool bing adapted to be pressed between the back of said holder and the edge of said supporting member to force said pins into said recess to remove a packing therefrom.

1,389,956. RETAINER FOR THE CLOSURE-CAPS OF COLLAPSIBLE TUBES. DAVIS MARINSKY, New York, N. Y. Filed Nov. 8, 1920. Serial No. 422,414. 2 Claims. (Cl. 221—60.)

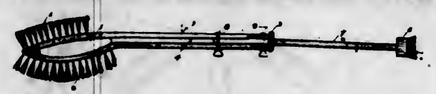


1. The combination with a receptacle provided with a threaded neck and a cap having an offset apertured portion, said cap being adapted to be mounted on said neck, of a retainer comprising a ring member, and an integral cap engaging part, said member being adapted to be threaded onto the neck of the receptacle and said part comprising laterally directed members adapted to be located between the cap and the neck of the receptacle and to be passed outwardly and loosely through the offset apertured portion of the cap for movably securing said cap in connection with said member.

1,389,957. RADIATOR-BRUSH. ELIZABETH M. MARTIN, Sterling, Ill. Filed Jan. 12, 1920. Serial No. 350,842. 1 Claim. (Cl. 15—30.)

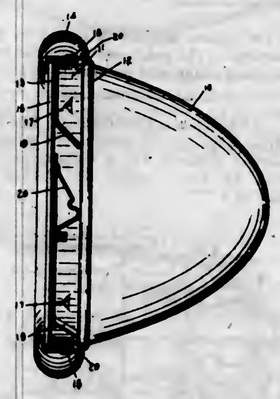
A device of the class described, comprising a head of narrow construction, embodying outwardly bowed portions

projected into a parallel, spaced-apart relation to form a handle; and bristles carried by said curved portions,



forming brushes on said head having a spread at the central portion thereof.

1,389,958. MEANS FOR SECURING LAMP-LENS CLOSURES. WILLIAM M. MATTEOLI, Connersville, Ind., assignor to Indiana Lamp Company, a Corporation of Indiana. Filed Oct. 21, 1919. Serial No. 332,198. 2 Claims. (Cl. 240—41.)



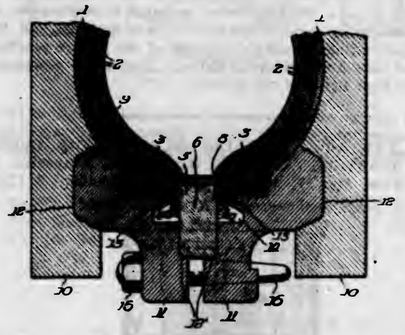
1. A lamp construction including a lamp casing having an outwardly projecting peripheral flange, a radially extending flange mounted adjacent the outer edge thereof, diagonally extending guide members formed on said flange and bending rearwardly from an opening formed therein, a plurality of springs secured to said casing adjacent the openings formed in said flange, a lens closure adapted to be mounted over said flange portion, and a plurality of spring engaging members on said lens closure arranged to pass through said openings and be guided by said members into locking engagement with said springs as the closure is rotated upon the casing in one direction, and be guided by said members out through said openings as the closure is rotated in the other direction.

1,389,959. FLYING-MACHINE. VIGILIO MATTIVI, Walsenburg, Colo., assignor of one-third to Joseph Brunelli and one-third to George Dick, Walsenburg, Colo. Filed Oct. 4, 1920. Serial No. 414,627. 9 Claims. (Cl. 244—20.)



1. A flying machine comprising a body, a pair of disk shaped wings carried by the opposite sides of the body, means for rocking the wings in relation to the body on centrally disposed shafts, and valves carried by said wings arranged to open when said wings are being moved upwardly and arranged to close when the wings are being moved downwardly.

1,389,960. PROCESS OF MANUFACTURING TIRES AND APPARATUS THEREFOR. TOD J. MELL, Akron, Ohio, assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 27, 1919. Serial No. 273,209. 16 Claims. (Cl. 154—14.)



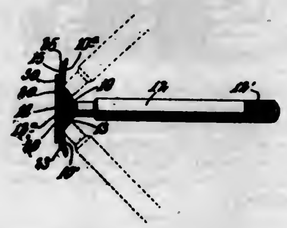
1. The process of manufacturing tire casings comprising the steps of forming the casing, leaving the untrimmed edges of the casing projecting below the beads, holding the untrimmed edges, and expanding the tire while the edges are held.

1,389,961. MANIFOLD-COVER. HERBERT TOM MELLING, Regina, Saskatchewan, Canada. Filed Dec. 30, 1918. Serial No. 268,908. 3 Claims. (Cl. 257—241.)



1. The combination, with an exhaust manifold and an intake manifold, of a cover therefor comprising an inner casing and an outer casing each consisting of a cup shaped metallic sheet portion, stirrups resting on the outer casing, stirrup pins passing through the stirrups and the inner and outer casings and securing the casings to the manifolds, heat conducting material between the two casings, and an outer removable insulating portion having means for securing the same to the manifold.

1,389,962. SAFETY-RAZOR. CARL L. MERZ, New York, N. Y. Filed Dec. 22, 1920. Serial No. 432,381. 4 Claims. (Cl. 30—12.)

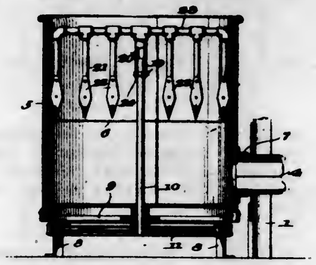


1. In a safety razor, a blade holder comprising a plate presenting opposed diagonal and convexed guard edges, a block set into said plate centrally thereof and having its front face projecting slightly beyond the plate, said block and plate presenting a convexed rear portion having a series of angularly differentiated sockets adapted to receive a handle.

1,389,963. COLOR CINEMATOGRAPHY. FREDERIC E. MILLER, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Art Color Motion Picture Co., New York, N. Y., a Corporation of Arizona. Filed Jan. 6, 1914, Serial No. 810,680. Renewed Feb. 8, 1921. Serial No. 443,496. 10 Claims. (Cl. 41—21.)

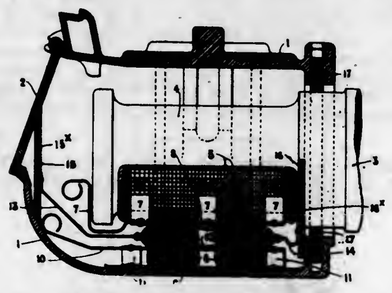
1. A transparency comprising a base of porous material having on a surface thereof a design in multi-color, said colors being combined with the base material and those representing the shaded portions of the picture pentrating the base for a different distance from those representing the high lights of the picture.

1,389,964. COOLING-RECEIVER FOR COFFEE-ROASTERS. HENRY H. MOENKHAUS, Evansville, Ind. Filed Mar. 7, 1921. Serial No. 450,455. 3 Claims. (Cl. 34—23.)



1. The combination with a coffee roaster, of a self-contained or unitary cooling receiver or bin having a screen for supporting the coffee, means whereby air may be drawn down through the coffee and through the screen, a stirrer for stirring the coffee, and driving means for the stirrer.

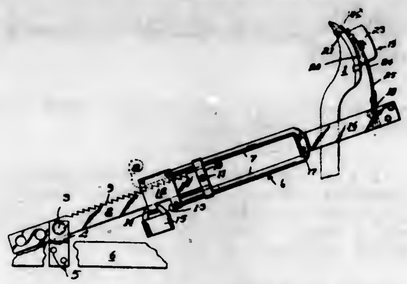
1,389,965. LUBRICATING DEVICE FOR RAILWAY-VEHICLE AXLE. ERNEST MOONEY, York, England. Filed Dec. 16, 1920. Serial No. 431,138. 3 Claims. (Cl. 64—35.)



1. In a lubricating device of the kind specified; the combination with an absorbent pad connected to or formed integral with capillary feeders and being supported on a spring frame or carrier constructed of flexible strip metal, of front and rear shields carried on flexible end members attached directly to the spring frame or carrier, substantially as described.

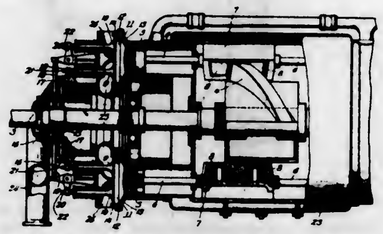
1,389,966. COMBINATION GEAR-CONTROL AND AUTO LOCK. EDWARD BISHOP MORRIS, Vallejo, Calif. Filed July 12, 1919. Serial No. 310,517. 7 Claims. (Cl. 70—128.)

1. In a device of the character disclosed, the combination with the gear control pedal of an automobile, of a rack bar fixed to the automobile, a locking member slidably connected with the rack bar, means for pivotally connecting said locking member with said rack bar, a tooth on the member adapted to engage in the teeth on the rack



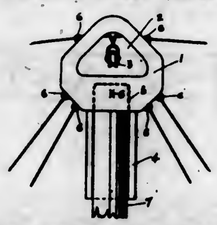
bar when the locking member is rocked on its pivot and means mounted on the pedal and connected with the locking member for rocking said member to lock and release it.

1,389,967. INTERNAL-COMBUSTION ENGINE. PETER W. MURPHY, Chicago, Ill., assignor to Murphy Engineering Company, Chicago, Ill., a Corporation of Michigan. Filed Feb. 10, 1919. Serial No. 276,193. 7 Claims. (Cl. 123—58.)



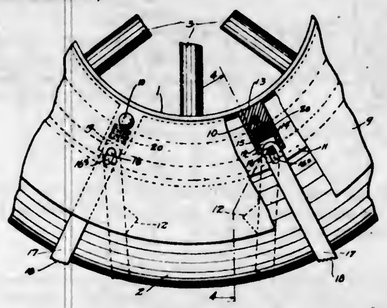
6. In an internal combustion engine, a main shaft, a series of cylinders and pistons disposed around the shaft and parallel thereto, an intake and exhaust valve for each cylinder having valve heads setting in the same plane and whose total diameter is greater than that of the piston, each pair of valve-heads being in the same plane parallel to the cylinder end and adjacent thereto, a cylinder head supporting the valves, valve chambers in the cylinder head each extending beyond the outer edges of each pair of valves, and an intermediate member disposed between the cylinder end and cylinder head and having converging walled chambers connecting the cylinder head valve chambers and cylinders.

1,389,968. SPAR-TREE CAP. JOSEPH NADEAU, Port Alberni, British Columbia, Canada. Filed May 24, 1921. Serial No. 472,215. 2 Claims. (Cl. 254—189.)



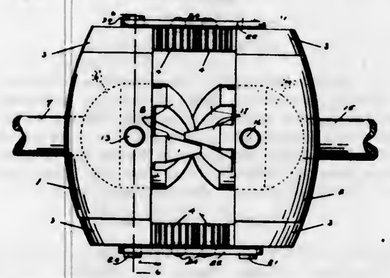
1. A spar tree cap comprising a block recessed in its lower end to fit the upper end of the spar tree and having an aperture in its upper end, a sheave hung from the upper side of the aperture, and lugs on the block to which the ends of guy lines may be secured.

1,389,969. NON-SKID ATTACHMENT FOR VEHICLE-WHEELS. ANDREW NELSON, Chattanooga, Tenn. Filed Sept. 13, 1919. Serial No. 323,580. 4 Claims. (Cl. 301—51.)



4. As an attachment for vehicle wheels, an inverted trough-shaped shield, means for securing said shield fast and parallel to the wheel, projections arranged in said shield, and teeth pivotally and adjustably suspended from said projections and in one position projecting beyond the tread of the wheel tires.

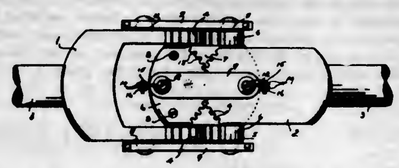
1,389,970. UNIVERSAL JOINT. ELI NOEL, Kansas City, Mo. Filed Aug. 30, 1920. Serial No. 407,045. 1 Claim. (Cl. 64—92.)



A universal joint, comprising paired trough shaped members having elongated longitudinal slotted apertures in the backs thereof, semi circular racks combined with the ends of said members and the respective end racks enmeshed, coupling bars pivotally mounted on said racks to hold the racks enmeshed and permit rocking of said members, and power receiving and power transmitting devices pivotally mounted in the sides of said members and having shafts traveling in the slotted apertures therein, said devices having enmeshed radially extending convexed cogs having concaved sides and concaved ends, the one of said devices being provided at the axial center thereof with a projecting center pin or stud having a convexed head and the other of the devices being provided at the axial center thereof with a concaved depression adapted for receiving the convexed end of the stud on said first mentioned device.

1,389,971. UNIVERSAL JOINT. ELI NOEL, Kansas City, Mo. Filed Sept. 20, 1920. Serial No. 411,387. 1 Claim. (Cl. 64—91.)

A universal joint, consisting of a centrally disposed body member having plane sides, toothed wheel segments mounted on alternate end portions of the sides of said body member, a knuckle joint member slidably bearing on the vertical sides of said body member and having toothed wheel segments enmeshed with toothed wheel segments thereon, a knuckle joint member slidably bearing on the horizontal sides of said body member and having toothed wheel segments enmeshed with toothed wheel segments thereon, coupling bars pivoting on the



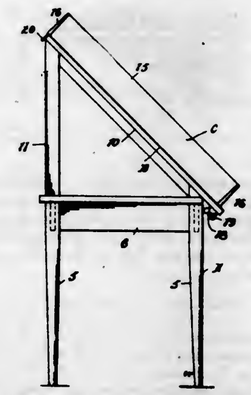
axial centers of said toothed wheel segments on said body member and also pivoting on said knuckle joint members, and shafts combined with said knuckle joint members.

1,389,972. MOP. FRANK M. O'BRIEN, Greensboro, N. C. Filed Mar. 26, 1920. Serial No. 369,041. 5 Claims. (Cl. 15—56.)



1. A mop comprising endless members looped to form opposed laps and knotted at spaced points to secure the opposed laps thereof together.

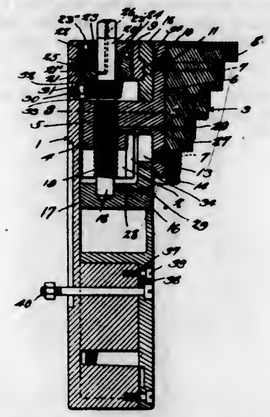
1,389,973. STORE-FIXTURE. FRANK M. O'CONNOR, Mason City, Iowa. Filed Nov. 22, 1920. Serial No. 425,878. 4 Claims. (Cl. 211—14.)



3. A store fixture comprising a supporting base, an inclined top plate having a longitudinally extending slot formed therein, a plurality of independent adjustable di-

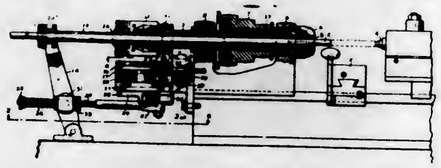
vision plates arranged on the upper face of the top plate, depending studs carried by the terminals of the division plate, the studs on the front ends of division plates being arranged in the slot, thumb nuts threaded on said last mentioned studs for engagement with the lower surface of the top plate, the studs on the rear ends of the division plates engaging the rear edge of the top plate.

1,389,974. CHUCK. GUSTAF ADOLPHUS OLIN, Worcester, Mass. Filed Nov. 18, 1919. Serial No. 338,839. 2 Claims. (Cl. 279—113.)



1. In a chuck, a body, a face plate secured to the body, the body having a groove alined with a radial slot formed in the face plate; a chuck jaw slidably mounted in the groove; said jaw having a T-shaped head, one face of the head being in engagement with the face plate and entirely covering the radial slot, the said face of the T head being provided with a groove completely surrounding the radial slot, and packing carried by said groove whereby foreign matter is excluded from the radial slot.

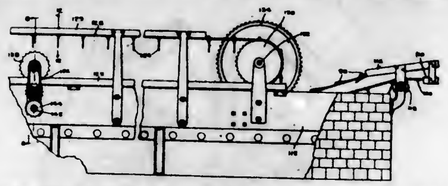
1,389,975. FEEDING MECHANISM FOR METAL-WORKING MACHINES. FREDERICK W. PARSONS, Cleveland, Ohio. Filed Feb. 28, 1919. Serial No. 279,804. 11 Claims. (Cl. 29—62.)



1. In a metal-working machine, a work-holding chuck having a reciprocal operating member, a reciprocal work feeding member, a rotary device adapted to impart a full reciprocal movement to said chuck operating member, and means adapted to operate said work-feeding member and said rotary device conjointly.

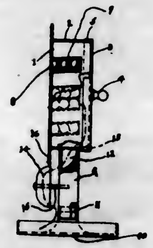
1,389,976. DOUGHNUT-MACHINE. NATHANIEL R. PATTEN, Minneapolis, Minn. Filed Nov. 5, 1920. Serial No. 421,883. 5 Claims. (Cl. 53—7.)

1. A doughnut machine comprising means for forming raw doughnuts, an endless conveyer adapted to run underneath said forming means and receive the doughnuts, a tank for containing a cooking medium, means for heating said tank, means for causing the delivery end of said conveyer to run beneath the surface of the cooking medium in said tank, means for moving the doughnuts



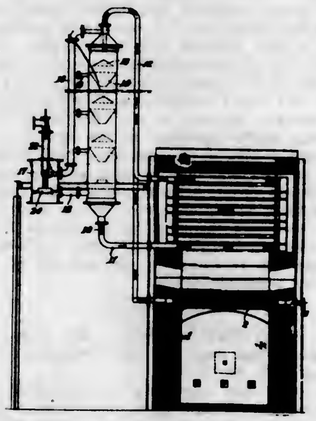
from the forward end of said tank to the rear thereof, and means interposed between the ends of said tank for turning over the doughnuts.

1,389,977. TARGET. FREDERICK J. PETERS, Milwaukee, Wis. Filed Apr. 6, 1921. Serial No. 459,080. 5 Claims. (Cl. 124—15.)



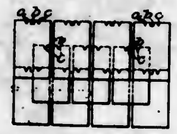
1. A target comprising a front member provided with a series of apertures, a series of counters positioned immediately behind said apertures and adapted to be dislodged by a successfully placed bullet, a gong positioned beneath said front member, and means for guiding dislodged counters downwardly against said gong whereby said gong is sounded for each successful shot.

1,389,978. OIL-STILL. JOHN PRIMROSE, New York, N. Y. Filed June 5, 1920. Serial No. 386,733. 3 Claims. (Cl. 196—14.)



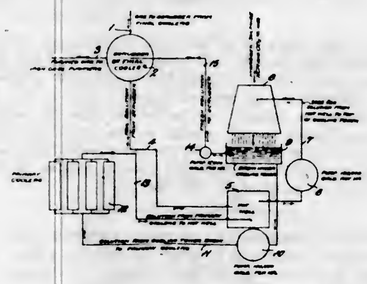
1. In an oil still comprising a plurality of heating surfaces in which the oil is subjected to varying effects of the furnace temperature, the combination of liquid and vapor separators with and intermediate to adjacent heating surfaces, and a control device connected with the vapor outlet of each of said separators and means therein for closing such outlet, when the oil backing up therein by reason of a stoppage in its flow reaches a predetermined level.

1,389,979. PREPARED ROOFING-SHINGLE. CHESTER E. RAHR, Brookline, Mass., and CALVIN RUSSELL, Penn Yan, N. Y. Filed July 3, 1916. Serial No. 107,241. 4 Claims. (Cl. 108—8.)



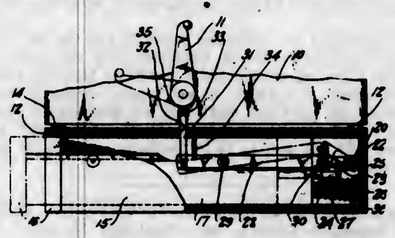
1. A prepared roofing shingle consisting of a waterproofed fibrous quadrilateral rectangular sheet of uniform thickness, and having an adherent colored crushed mineral facing, said shingle having one end marked so that it can be located in the same relative position as other like shingles, and thus present the like shades or tint.

1,389,980. APPARATUS AND PROCESS FOR PURIFYING GASES. CHARLES J. RAMSBURG, Pittsburgh, Pa., assignor to The Koppers Company, a Corporation of Pennsylvania. Filed Oct. 7, 1920. Serial No. 415,230. 12 Claims. (Cl. 23—10.)



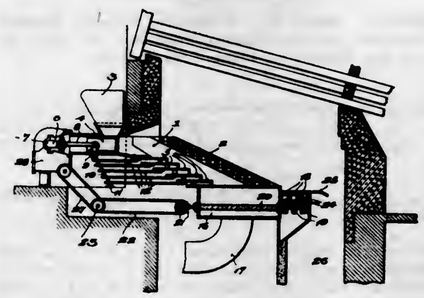
7. Apparatus for effecting purification of fuel gas, comprising, in combination: circulating means for a gas purifying liquid, including a gas purification means, heating means, and aeration means, the heating means having means for effecting heating of the purifying liquid and the aeration means having means for effecting aeration of the thus heated foul purifying liquid from the gas purification means; substantially as specified.

1,389,981. AUTOMATIC CASH-DRAWER. CLIFFORD R. RANDALL, Council Bluffs, Iowa. Filed June 25, 1920. Serial No. 391,771. 2 Claims. (Cl. 235—22.)



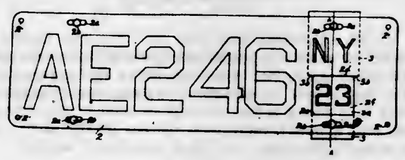
1. In a device of the class described, the combination with a hand operated calculating mechanism having a rotatable handle, a casing on which the base of said mechanism rests and a money drawer operable in said casing, a bar journaled transversely in said casing rearward of the end of said drawer, a hook fixed on said bar, a detent on said drawer engageable by said hook, an arm fixed on the bar, a lever pivoted in said casing, said lever having a part engaging said arm, means for holding said lever in operative position, a plunger carried at the opposite end of said lever and a cam fixed on said handle adapted to depress said plunger and release said drawer co-incident with its operation.

1,389,982. AUTOMATIC STOKER OF THE UNDERFEED TYPE. MAURICE RATEL, New York, N. Y. Original application filed Mar. 30, 1914, Serial No. 828,423. Divided and this application filed Oct. 5, 1920. Serial No. 414,836. 27 Claims. (Cl. 110—44.)



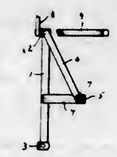
1. In an automatic underfeed stoker, a series of alternating twyers and fuel retorts or troughs providing an inclined fuel bed whereby the fuel and solid products of combustion are fed downwardly with the aid of gravity, and means for feeding fuel through said retorts to said fuel bed comprising a main fuel-feeding member and a plurality of secondary fuel-feeding members disposed substantially throughout the length of each retort, the successive members in each retort having progressively decreasing capacity in the direction of inclination of the fuel bed and substantially parallel movement to feed progressively smaller quantities of fuel to the fuel bed in substantially parallel directions.

1,389,983. LICENSE-NUMBER PLATE FOR AUTOMOBILES. GLENN S. RAVEN, Watertown, N. Y. Filed Feb. 17, 1921. Serial No. 445,687. 4 Claims. (Cl. 40—63.)



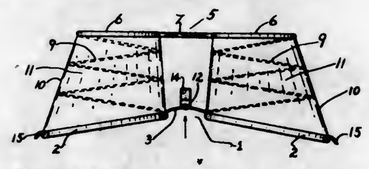
1. The combination with the main license plate having spaced horizontal slits near one end, of a detachable year-plate which bears a year number, said year-plate having its lower end portion reduced in breadth corresponding to the length of said slits, and the upper end portion thereof being broader than said slits and provided with shoulders which aline with the uppermost slit in the main plate, the said shoulders resting upon the metal of the main plate lying between said slits.

1,389,984. RACK FOR GLASS GLOBES. EVAN L. REED, Sterling, Ill. Filed July 18, 1919. Serial No. 311,705. 2 Claims. (Cl. 211—14.)



1. A device of the class described, comprising a frame; a bar foldably connected with said frame, adapted to hold a plurality of globes; braces foldably connected with said frame and detachably connected with said bar; and means for removably embracing the necks of said globes.

1,389,985. GOGGLES. FREDERICK GEORGE RIDGERS, Hamilton, Ontario, Canada. Filed Jan. 24, 1921. Serial No. 439,586. 1 Claim. (Cl. 2—149.)



A pair of goggles comprising a rear frame provided with eye openings therein, a front frame in spaced relationship to the rear frame, and provided with lens openings therein, separate sight tubes communicating between each lens opening and the corresponding eye opening in the rear frame, a coil spring within each sight tube having one end connected to the rear frame and the other to the front frame, the front frame adapted to be moved toward the rear frame against the pressure of the aforesaid springs whereby the sight tubes are telescoped and a clamp carried by the rear frame and adapted to engage the front frame for securing the tubes in the telescoped position.

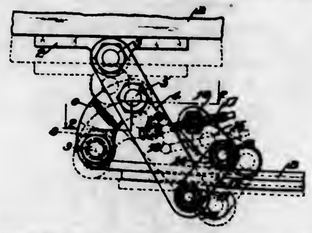
1,389,986. ADJUSTABLE TRAY. CHESTER H. RISTENPART, Thousand Oaks, Calif. Substitute for application Serial No. 291,336, filed Apr. 19, 1919. This application filed June 12, 1919. Serial No. 303,611. 6 Claims. (Cl. 45—7.)



1. In an adjustable telescopic tray, sections having a plurality of parallel longitudinal depressions therein, side walls substantially the same height as the upper walls of the depressions on said inner section extending downwardly to a plane below the bottom level of the depressions, and a larger companion section of the same contour slidably receiving said first mentioned section.

1,389,987. SHOCK-ABSORBER. CHARLES F. RODIN, San Francisco, Calif., assignor of one-half to John Erikson, San Francisco, Calif. Filed Apr. 20, 1921. Serial No. 462,941. 7 Claims. (Cl. 267—20.)

4. The combination with a vehicle frame, of an axle supporting spring secured at one end to the frame, a pair of links pivotally attached to the frame adjacent the opposite end of the spring, a shackle link pivotally mounted between said links and connected with the spring, a pin connecting the lower ends of the links, a roller journaled thereon and engageable with one side of the spring, a second pair of links pivotally mounted on said pin, a pin connecting the opposite ends of said second named links,



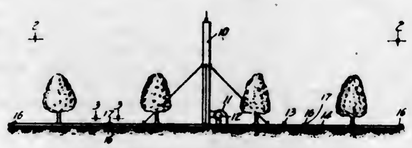
a roller journaled on said last named pin, and means for exerting a pressure on said second named links which will cause the rollers to frictionally clamp the springs during rebound movement of the spring and vehicle frame.

1,389,988. OAR. WILLIAM A. ROSS, Peekskill, N. Y. Filed Mar. 31, 1921. Serial No. 457,266. 2 Claims. (Cl. 9—24.)



1. A stop clamp on an oar comprising layers of leather wound around the oar, one upon another and secured by tacks at the butting ends of the strips, and a clamp in parts adapted to be secured together, the united parts constituting a tubular section to fit upon the oar, and cupping flanges on the tubular section forming chamber walls to inclose one side and the periphery of the leather layers, and screws through the tubular section to secure the clamp in position on the oar.

1,389,989. FROST-PREVENTING DEVICE FOR ORCHARDS. WILLIAM L. ROSS, Porterville, Calif. Filed Jan. 10, 1920. Serial No. 350,679. 2 Claims. (Cl. 47—36.)

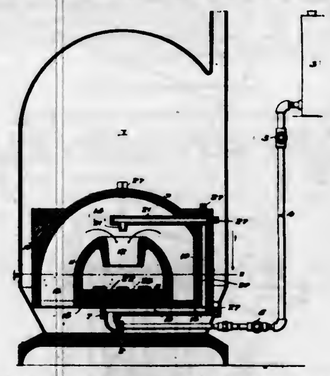


1. A process of protecting orchards and the like, embodying drawing warm air from the upper strata above the vegetation and displacing the colder lower strata of air near the ground below the vegetation with such warm air.

2. Apparatus for protecting orchards and the like comprising in combination, a relatively long vertically extending stack whose upper end stands in high air strata which serves as a source of air supply, means to move air down the stack and stationary air distributing means communicating with the stack at the lower end and spread over the field so as to discharge air over the surface thereof.

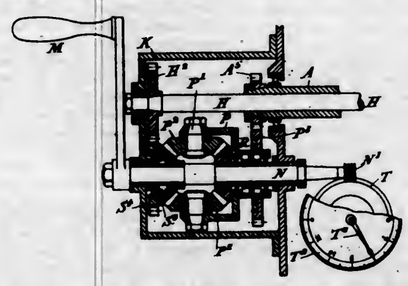
1,389,990. BURNER FOR HEATING-STOVES. OLIVER J. ROSSELOT, Kokomo, Ind. Filed Mar. 30, 1920. Serial No. 369,877. 4 Claims. (Cl. 158—66.)

3. A burner for heating stoves comprising a single casting formed with an extended circular base member, an upper arched member with hollow side walls forming an arch-shaped air chamber within the casting, a horizontal feed duct formed within the base member, a vertical fuel feed duct formed in one of the side walls, an upper horizontal fuel feed duct within the casting, said ducts communicating with each other, a flame spreader plate re-



cessed within its lower face and having a plurality of orifices therethrough, a convolute asbestos wick arranged within the recessed portion of said plate and filling the said orifices, and an outlet formed in the center of the arch for the discharge of the commingled air and fuel against said spreader plate.

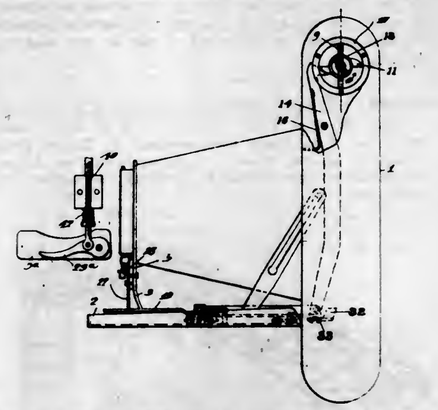
1,389,991. AIRSCREW HAVING ADJUSTABLE BLADES. WILLIAM COLIN RUSSELL, East Sheen, England. Filed May 15, 1920. Serial No. 381,675. 5 Claims. (Cl. 170—163.)



1. In means for propelling aircraft, the combination with the propeller shaft of rotative means concentric with said shaft, mechanism in positive connection with said means for varying the angular adjustment of the propeller blades, and means on the aircraft for transmitting motion to said concentric rotative means comprising a main driving member adapted to normally transmit balanced drive to a pair of driven members which have the capacity of over-running one another, a member adapted to be held stationary and mounted on the same axis as the driven member adapted to drive the concentric rotative means, and means for rotating said stationary member to accelerate or retard the movement of said rotative concentric means and thereby proportionally operate the blade setting and adjusting mechanism and effect the setting and adjustment of the propeller blades.

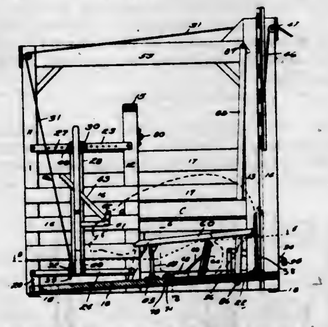
1,389,992. PHOTOGRAPHIC CAMERA. MORTON P. SAFFATY, New York, N. Y. Filed Mar. 15, 1915, Serial No. 14,862. Renewed Feb. 11, 1921. Serial No. 444,265. 7 Claims. (Cl. 95—82.)

1. In a folding camera having a lens plate adjustable to different positions, a shutter operating mechanism thereon, a latch for said shutter mechanism also supported by said lens plate, a film winding spindle, and a trip for said latch operated by movement of said spindle,



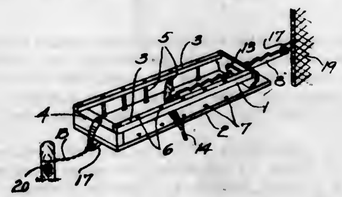
said trip being mounted on the camera case and having a part engaging said latch in different positions of adjustment of said lens plate but disconnected therefrom.

1,389,993. BREEDING-CRATE. JOHN C. SCHULZ, Stockport, Iowa. Filed Oct. 11, 1920. Serial No. 416,023. 10 Claims. (Cl. 119—98.)



1. A breeding crate including a floor pivoted at one end and capable of being locked in any of its pivoted positions, a door at either end of said crate, one of said doors having a head rest pivoted thereto for engaging the head of a hog, means for locking said head rest in any of its positions, a belly supporting member on said floor, and means for engaging the sides of a hog for preventing any side movement of the hog.

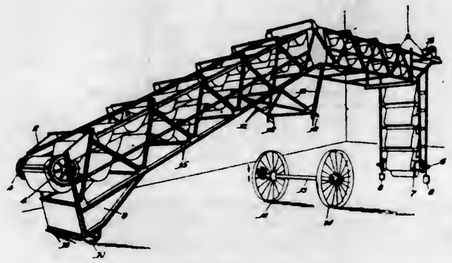
1,389,994. FENCE-STRETCHER. CHARLES F. SCHUMAKER, St. Louis, Mo. Filed Oct. 28, 1920. Serial No. 419,031. 2 Claims. (Cl. 254—88.)



1. A fence stretcher, comprising a frame; a row of fulcrum pins in the frame; a lever adapted to successively

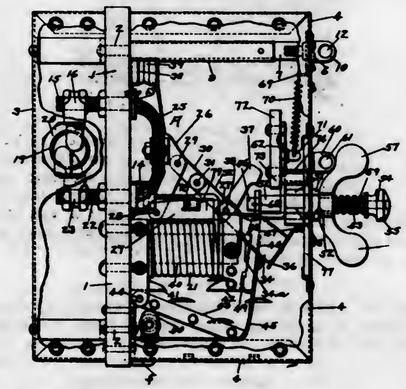
engage the pins as a lever fulcrum; a ratchet toothed stretcher bar adapted to travel through the frame; a pawl for locking said bar against retrograde movement; and means at one end of the stretcher bar for engaging the fence and at the other end of the bar for engaging the lever.

1,389,995. LOADING DEVICE. RICHARD R. SCHUTT, deceased, San Jose, Costa Rica, by John M. Keith, executor, San Jose, Costa Rica, assignor to United Fruit Company, Boston, Mass., a Corporation of New Jersey. Filed Feb. 1, 1921. Serial No. 441,693. 5 Claims. (Cl. 198—233.)



1. A load handling machine of the type described comprising a frame constructed and arranged to extend from a point on a ship to a point outside the ship, a conveyer carried by the frame for transferring material between said two points, means including a universal motion element for supporting one end of the frame on the ship and means for movably supporting the other end of the frame outside the ship.

1,389,996. SWITCHING APPARATUS. WILLIAM M. SCOTT, Tredyffrin township, Chester county, Pa. Filed Dec. 24, 1919. Serial No. 347,182. 45 Claims. (Cl. 200—107.)

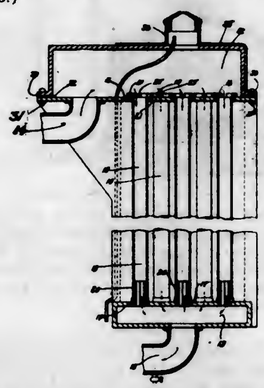


1. The combination with the movable contact member of a switch, of overtraveling toggle structure for moving the same to normal position and for locking the same therein, and a member partaking of rotative and rectilinear movements for respectively actuating and tripping said toggle structure.

32. The combination with the movable member of a switch, of means for restraining the same in normal position, a tripping magnet, an armature therefor, and a member disposed in the path of said armature movable along and guided by a pole of said magnet for actuating said restraining means to free said movable switch member.

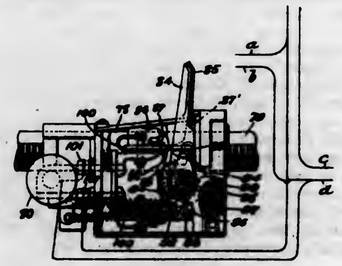
36. The combination with automatic circuit breaker mechanism comprising independently movable switch members and automatic tripping mechanism therefor, of movable housing structure, and resetting mechanism detached from said switch members for resetting them successively carried by said housing structure and movable therewith to and away from operative relation with respect to said switch members.

1,389,997. FLUID-CONDUCTING STRUCTURE. STANLEY W. SEDGWICK, Edmonton, Alberta, Canada. Filed Mar. 3, 1920. Serial No. 363,062. 7 Claims. (Cl. 285—25.)



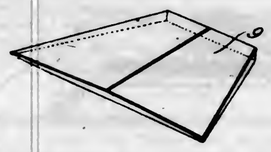
1. A fluid-conducting structure including two spaced apart tube sheets each provided with tapped orifices, the screw-threads of which have the same direction and pitch, and a plurality of sheet-connecting tubes, each having fixed collars at its opposite ends externally threaded and adapted to simultaneously engage the threads of two alined tube sheet orifices, said collars being formed to be simultaneously engaged by turning members on an elongated wrench rod, whereby the collars and tube may be simultaneously rotated without strain on the tube.

1,389,998. CIRCUIT-CLOSER FOR SHEET-TRIPS. CHARLES R. SEYMOUR, OTTO M. HOCH, and THOMAS W. ADAMS, Rochester, N. Y., assignors to M. D. Knowlton Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 20, 1915. Serial No. 67,818. 7 Claims. (Cl. 200—52.)



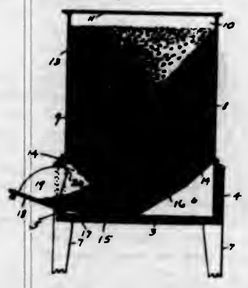
1. A circuit closer for sheet tripe adapted to be operated by a sheet of material, comprising a rotary circuit closing member, and means having detachable connection with said circuit closing member and having a sheet engaging portion whereby it will be actuated by the sheet of material to rotate said circuit closing member.

1,389,999. AMPLIFIER FOR SOUND-REPRODUCING MACHINE. FRANKLIN T. SHACKLEFORD, Minneapolis, Minn. Filed Dec. 1, 1919. Serial No. 341,575. 8 Claims. (Cl. 181—27.)



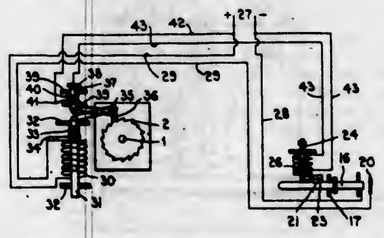
1. A horn or amplifier for sound reproducing machines including a plurality of walls, the inner faces of which are beveled from opposite edges toward their middle portions, being also beveled from one of their ends to the opposite ends.

1,390,000. SANITARY DISPLAY-CASE. ALBERT G. STEPHENS, Indianapolis, Ind. Filed Jan. 19, 1920. Serial No. 352,439. 1 Claim. (Cl. 211—11.)



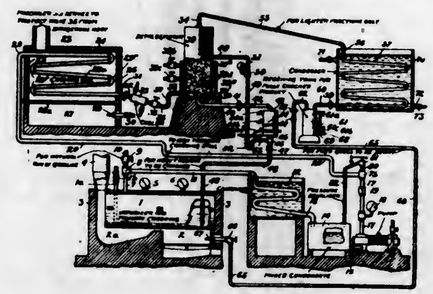
A case for displaying granular commodities comprising an inverted truncated pyramidal hopper, a glass superstructure mounted on the hopper, a trough into which the hopper discharges having an open end, said opening being above the lowest bottom of the trough and said lowest bottom sloping up to the opening, said trough having an oblique end connecting it with the hopper and less steep than the hopper side with which it joints opposite said open end, a door hinged at its lower edge to the bottom of the opening, said door having side members to prevent wasteful discharge, and means to arrest the door approximately in the plane of the adjacent side of the trough before it reaches a horizontal open position.

1,390,001. SIGNALING OR INDICATING APPARATUS. PAUL HENRY WALLER, Camberwell, London, England. Filed Dec. 10, 1919. Serial No. 343,968. 3 Claims. (Cl. 40—59.)



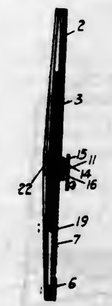
1. In a signal apparatus, the combination, with a pivoted lever adapted to be operated by contact with an obstacle, of a longitudinally slidable circuit closer operated in one direction by the said lever, a spring for moving the circuit closer in the reverse direction, a driving shaft, a ratchet toothed wheel and a pawl for revolving the said shaft step by step, a solenoid operatively connected with the said pawl, an electric circuit adapted to energize the solenoid and provided with a contact piece arranged in the path of the said circuit closer, and a locking device which holds the said circuit closed while the ratchet wheel and pawl are being actuated by the solenoid.

1,390,002. METHOD OF REFINING LIQUID HYDROCARBONS. FRANK E. WELLMAN, Kansas City, Kans., assignor to The Kansas City Gasoline Company, Kansas City, Kans., a Corporation of Kansas. Filed Nov. 27, 1917. Serial No. 204,228. 1 Claim. (Cl. 196—25.)



The process of refining oil which consists in first distilling all the oil at low or atmospheric pressure, retaining all products of distillation without separate condensation, then condensing all condensable products, then placing the entire liquid so condensed in totality and without separation of any friction, under high pressure and high temperature so as to crack in the liquid phase, then separating out the heavier products and returning them to be again distilled and cracked, and finally condensing the light resultant product.

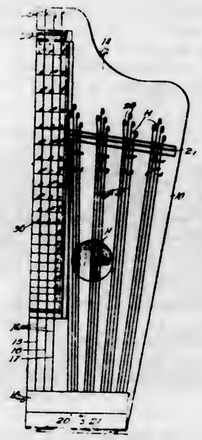
1,390,003. SASH-LIFTING DEVICE FOR AUTOMOBILES. OLIVER W. WHITEHEAD, near Dayton, Ohio. Filed Oct. 25, 1920. Serial No. 419,339. 6 Claims. (Cl. 268—4.)



1. In a device of the type described, the combination with a frame, of a sash vertically movable in said frame, a spirally coiled element pivotally secured in the bottom rail of said sash, a transverse member secured in the middle portion of said frame, a bearing for the upper end of said coiled element, a flange on said projection, adapted to engage the inner surface of said coiled element secured to said transverse member, a projection on the bottom

rail of said sash, that enters the spiral groove in said coiled element, and handle means secured to said transverse member, operatively connected with said worm, for turning the latter to raise and lower said sash.

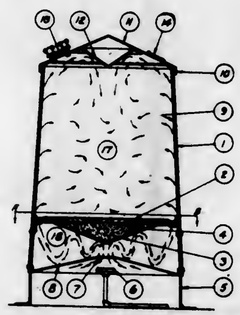
1,390,004. STRINGED MUSICAL INSTRUMENT. FRITZ WINQUIST, Chicago, and JOSEPH SORAVIA, Oak Park, Ill. Filed Feb. 9, 1920. Serial No. 357,462. 12 Claims. (Cl. 84—285.)



4. A musical instrument having, in combination, a body, a plurality of sets of closely spaced chord strings, said sets being closely spaced at one end of the instrument and diverging toward the other end.

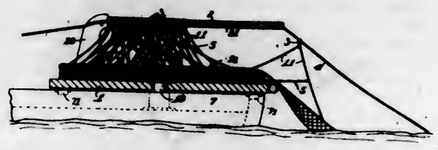
6. A musical instrument having, in combination, a string arranged to be played with a steel bar for determining the pitch, a set of adjacent strings tuned to produce a chord, and a single resonant body supporting all said strings, and underlying said chord strings throughout their length.

1,390,005. METHOD AND APPARATUS FOR VULCANIZING. JOHN CRESWELL YOUNG, Washington, D. C. Filed Jan. 17, 1921. Serial No. 437,975. 12 Claims. (Cl. 18—6.)



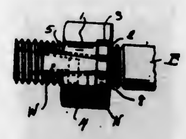
1. A method of vulcanising which comprises confining the article to be vulcanised in a vulcanising chamber and causing a current of air mixed with the hot gaseous products of combustion to pass into said chamber and contact with the article to effect the vulcanisation thereof

1,390,006. APPARATUS FOR HANDLING PURSE-SEINES. SALEMON AKAR, Seattle, Wash. Filed Oct. 25, 1920. Serial No. 419,348. 5 Claims. (Cl. 43—8.)



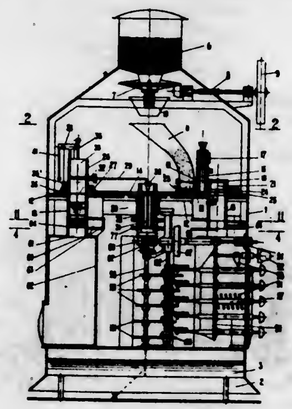
1. A device for threading purse lines into purse seines comprising a tubular finger supported from one end and adapted to receive the pursing rings thereon and the purse line therein.

1,390,007. NUT-LOCK. CHARLES EDGER ALLEN, Williamson, Pa. Filed Feb. 9, 1921. Serial No. 443,580. 8 Claims. (Cl. 151—28.)



1. In combination with a nut having a tapered groove in its outer face disposed in the same general direction as the bore of the nut and having a rabbet in said face in angular relation to the groove, said rabbet providing a shoulder, a wedge member insertible within the groove and provided at one end with a head to engage the shank to which the nut is applied, the opposite end portion of the wedge member being provided with an extension to co-act with the shoulder to hold the wedge member against outward movement when applied within the groove.

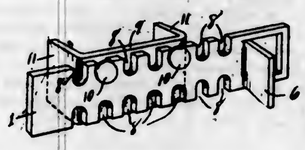
1,390,008. MACHINE FOR MAKING COFFEE AND LIKE INFUSIONS. PIER TERESIO ARDUINO, Turin, Italy. Filed Feb. 3, 1921. Serial No. 442,168. 19 Claims. (Cl. 53—3.)



1. An automatic machine for making infusions, comprising a stationary receptacle for receiving the liquid

and the material of which the infusion is to be made, said receptacle having its axis disposed vertically; means for feeding the ground material and the liquid, said feeding means being adapted to coöperate in succession with said receptacle; means for exerting a pressure in said receptacle to discharge the infusion therefrom; removable means at the bottom of said receptacle for alternately closing and opening the same; and means for operating the movable parts of the machine.

1,390,009. DETACHABLE INSIDE DOOR-LOCK. ELBERT H. ARLEDGE, Fort Worth, Tex., assignor of one-half to Harry Hamilton, Fort Worth, Tex. Filed June 9, 1920. Serial No. 387,618. 1 Claim. (Cl. 292—297.)



A detachable inside door lock comprising a body member for projecting between the edge of the door and its abutment, a stop on said body prejecting laterally therefrom to engage a part of the abutment of the door, said body having a plurality of notches in the upper and in the lower edges thereof, a reversible U-shaped locking member either leg of which may form a stop to engage a door, and studs rigid with said locking member and adapted to engage a pair of said notches.

1,390,010. COVERALLS. FRED BERONIO, San Francisco, Calif., assignor to Levi Strauss & Co., a Corporation of California. Filed Dec. 4, 1919. Serial No. 342,415. 2 Claims. (Cl. 2—144.)



1. In a garment of the character described, the combination with two front members normally stitched together vertically by a double seam, of a semi-circular supplemental flap member having the straight edge fixed parallel and contiguous to the vertical seam, and the curved edge extending across and beyond said seam, and transverse stitching securing the upper and lower ends of the curved edge across the main vertical seam, to allow the intervening length of seam after being ripped open to be shielded.

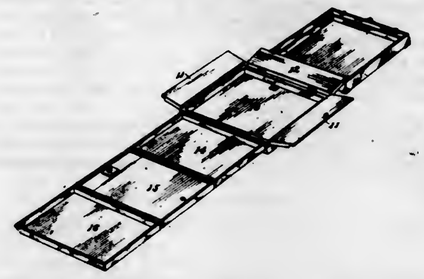
1,390,011. GREASE-GUN. BERTRAND C. BLIVEN, San Francisco, Calif. Filed Sept. 24, 1919. Serial No. 326,049. 1 Claim. (Cl. 221—78.)

A grease gun comprising a cylinder, a plunger in said cylinder, heads at the ends of the cylinder, a spout attached to one of said heads and an apertured boss attached to another head, said cylinder having the end remote from said boss enlarged circumferentially inter-



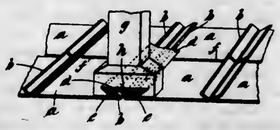
iorly to permit air to escape around the plunger and out through the spout when all the grease has been expelled.

1,390,012. SAMPLE-CASE. HENRY J. BORGERDING and JOSEPH F. BORGERDING, Oakland, Calif. Filed Aug. 18, 1920. Serial No. 404,326. 3 Claims. (Cl. 190—16.)



1. A folding sample case constituting when extended a series of shallow trays lying side by side and extending in a straight line and comprising a bottom member, back and end walls in place thereon, a top member constituting also a tray and hingedly connected to said back wall, a plurality of trays hinged together and foldable one on the other within the case, the innermost tray being hinged to the bottom member along the front edge of the latter, and a front wall removably received in place between the top and bottom members when the latter are folded.

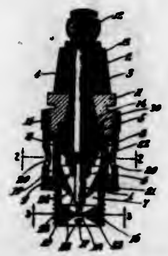
1,390,013. CONSTRUCTION OF SHIPS, TANKS, AND THE LIKE. ALEXANDER MORRISON BOURKE, London, England. Filed Oct. 4, 1920. Serial No. 414,644. 5 Claims. (Cl. 114—79.)



1. In a sheet metal structure for ships, the combination of stem and stern posts having inclined recesses formed

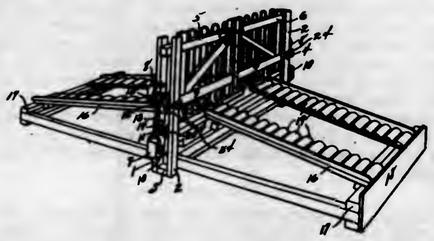
therein, plates having hook-shaped ends, one end of each end plate of the structure being adapted to engage an inclined recess of one of said posts, and ribs having hook-shaped ends for engaging the adjacent hook-shaped ends of intermediate plates whereby said posts, plates and ribs may be readily formed into a unitary structure by sliding said inclined ends and recess into interlocking engagement.

1,390,014. SPARK-PLUG. CHARLES W. BREWSTER, New York, N. Y., assignor to The Brewster-Goldsmith Corporation, Inc., a Corporation of New York. Filed June 9, 1919. Serial No. 302,734. 17 Claims. (Cl. 123—169.)



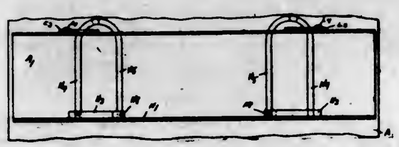
1. In a spark plug the combination of an electrode, a chamber surrounding the electrode near its end, having surfaces comprising its roof, floor and walls, inclined to one another and adapted to receive blast from the explosion and deflect it inwardly and downwardly against the end of the electrode and through the spark gap, and ports through the floor of the chamber connecting the latter with the cylinder when the spark plug is in position, and inclined so as to admit the blast from the explosion in the cylinder into the chamber and to direct it against a portion of the said inclined surfaces of the chamber, whereby blast from the explosion will be admitted into the chamber and be deflected inwardly and downwardly against the end of the electrode and through the spark gap.

1,390,015. AUTOMATICALLY-OPERATED GATE AND DOOR. GEORGE W. BROWN, Fort Worth, Tex., assignor of one-fourth to H. M. Coleman, Indianapolis, Ind. Filed Apr. 9, 1921. Serial No. 459,950. 3 Claims. (Cl. 39—18.)



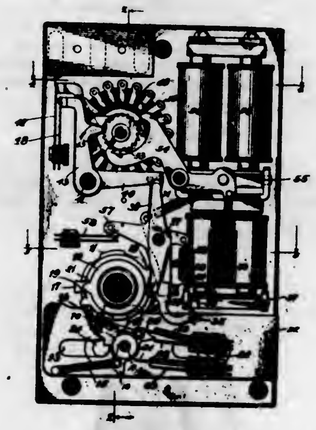
1. An automatically operated gate comprising fixed uprights on each side of the passage-way, a pair of swinging gate members provided with fulcrum bolts supported in said uprights, a depressible bar, link bars pivotally connected to said depressible bar and provided with roller bearings at their upper ends, curved levers attached to said gate members and engaged by said link bars through said roller bearings, and approaches to said gate members pivotally supported at their outer ends resting on said depressible bar and adapted to press said bar downwardly for opening said gate members.

1,390,016. LOOSE-LEAF BINDER. JORDAN T. BRUMFIELD, deceased, Portland, Oreg., by Frances D. Brumfield, executrix, Portland, Oreg. Filed Oct. 23, 1919. Serial No. 332,690. 2 Claims. (Cl. 129—1.)



1. A loose leaf binder consisting of a base plate mounted on a hinge inside of a book back, a pair of wire arches mounted on said base plate, said arches adapted to be separated in a maanner to admit perforated sheets, a slotted cover plate also hinged to said book back adapted to fit over said arches sufficiently far to allow a portion of same to project through said cover plate, and hinged hooks mounted on said cover plate in a manner to permit the tip of said hooks to pass between said arches and said cover plate when moving away from said cover plate hinge.

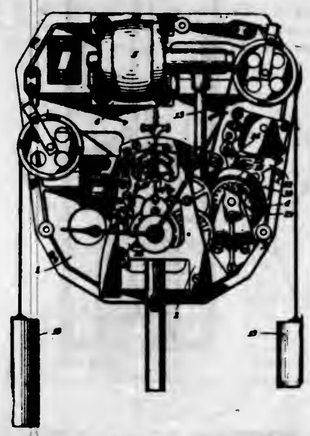
1,390,017. RECORDING-LOCK SYSTEM. JAMES W. BAYCE, Binghamton, N. Y. Filed July 16, 1919. Serial No. 311,120. 16 Claims. (Cl. 234—1.5.)



1. In a recording lock the combination with the lock-controlling tumblers of a plurality of circuit-controlling tumblers adapted to be set in position by a key inserted in the lock to establish by permutations and combinations of conducting paths made and broken thereby any one of a number of circuits greater than the number of the tumblers and each corresponding to a given key.

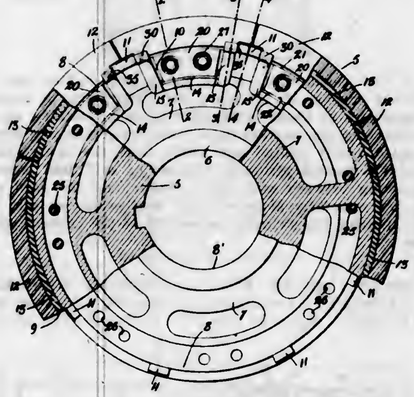
13. In a lock recording system the combination of a lock, a line circuit and a recorder, a device in the lock in the nature of a commutator with insulated segments and a contact arm sweeping over the same, a magnet for operating the arm and means for connecting to line such of the segments as correspond to the particular key used in the lock, the direction of its insertion and rotation and the like, of a magneto in the recorder adapted to be operated when a key is inserted and turned in the lock to send impulses to line, and means controlled thereby for directing the impulses of one direction over the line and through the contact arm controlling magnet and impulses of the opposite direction to the live segments of the commutator.

1,390,018. MASTER-CLOCK. JAMES W. BAYCE, Binghamton, N. Y., assignor to The International Time Recording Company of New York, a Corporation of New York. Filed Aug. 24, 1920. Serial No. 405,607. 7 Claims. (Cl. 58—41.)



1. The combination with the bed plate, a winding motor having supporting cross-plates, posts set in the bed plate passing through holes in said cross-plates, springs bearing on said cross-plates to hold the motor in position, winding mechanism on the bed plate and a flexible connection between the same and the motor shaft.

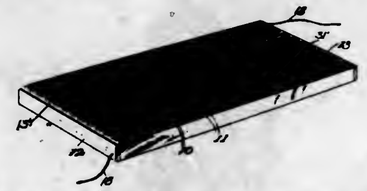
1,390,019. CRUSHER-ROLL. CHARLES G. BUCHANAN, Newark, N. J. Filed Aug. 14, 1919. Serial No. 317,455. 11 Claims. (Cl. 83—12.)



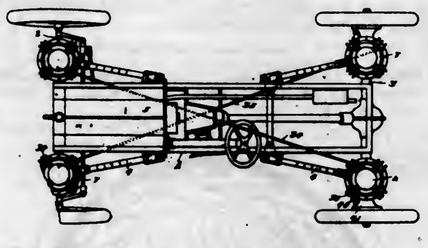
1. In a crusher roll comprising a central rotatable member and a series of segmental facing plates, means for holding said plates in place on said member comprising projecting shoulders on the ends of said plates, abutments on said member engaged by said shoulders, and fastening means drawing radially inward on said plate projections.

1,390,020. INTENSIFIER. FRED DE WITT CHENEY, Gypsum, Kans. Filed Nov. 7, 1917. Serial No. 200,796. 4 Claims. (Cl. 250—41.)

1. An intensifier including opposite binding straps having spaced lugs extending toward each other, a plurality of strips of insulating and conducting material arranged side by side in contact with each other and extending between said binding straps, one end of every other strip of conducting material being seated between two of the lugs on one of the binding straps and the other end of each of said strips of conducting material alining with and being spaced from the adjacent lug on the other binding strap, whereby the strips of conducting material are in parallel staggered relation.

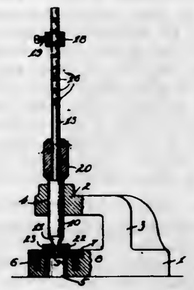


1,390,021. CUSHIONING DEVICE AND SUPPORT FOR VEHICLE-FRAMES. LEONARD E. CLAWSON, San Francisco, Calif. Filed Apr. 12, 1920. Serial No. 373,180. 12 Claims. (Cl. 267—30.)



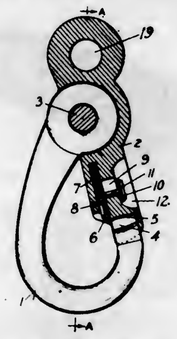
3. In a motor driven vehicle a main frame, a pair of axles supporting the same, a pair of springs interposed between each axle and the frame, a resilient non-metallic member interposed between each spring and each axle, means securing each spring to each resilient member, and other means securing each resilient member to their respective axles.

1,390,022. METHOD OF FORMING VALVE-SEATS. WILLIAM E. COAKLEY, Cleveland, Ohio, assignor to The Ohio Body & Blower Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Dec. 7, 1917, Serial No. 206,093. Divided and this application filed May 1, 1920. Serial No. 378,150. 2 Claims. (Cl. 29—157.)



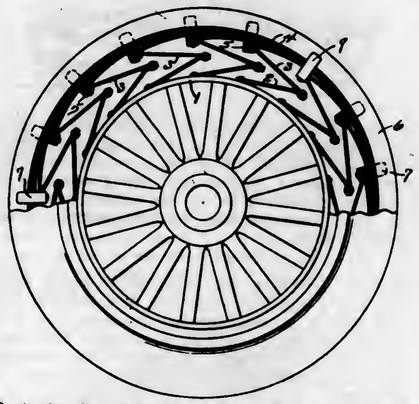
1. The method of producing valve seats in apertured members which consists in swaging the material surrounding the aperture to form the seat.

1,390,023. SAFETY-HOOK. AUSTIN L. COON, Aurora, Oreg. Filed June 11, 1921. Serial No. 476,785. 3 Claims. (Cl. 24—241.)



1. In a device of the character described, the combination of a hook, an eye at the end of the hook and a T-shaped tenon at the point of the hook, with a locking block fulcrumed in the eye of the hook, means in the locking block to firmly engage said T-shaped tenon and an eye at the opposite end of the locking block adapted to be attached to a hoisting chain.

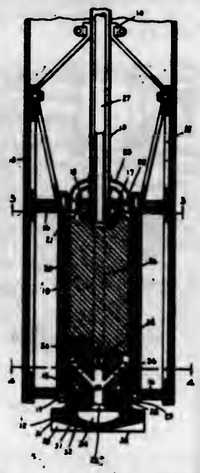
1,390,024. SPRING-TIRE. EVAN M. CURRY, Altus, Okla. Filed June 16, 1921. Serial No. 478,013. 4 Claims. (Cl. 152—8.)



3. A tire for vehicles having a series of units, each consisting of an inner spring attached at one end to the wheel rim, an intermediate spring attached at one end to the other end of said inner spring, an outer spring attached at one end to the other end of said intermediate spring, the other end of said outer spring forming a part of the tread for the wheel, each outer spring lapping on at least two of said units, and a U-shaped brace for each unit attached to said intermediate and outer springs at the juncture and projecting radially outward to hold said units in circular alinement.

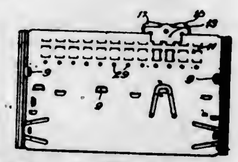
1,390,025. WELL-DRILLING APPARATUS. ELMER C. DRAKE, Indianapolis, Ind., assignor of one-half to Jacob P. Teter, Indianapolis, Ind. Filed Feb. 24, 1920. Serial No. 360,648. 10 Claims. (Cl. 255—4.)

1. In a well drilling apparatus, the combination with a well casing, drilling means positioned within said casing means spacing said drilling means from said casing to form a discharge channel therebetween, means supplying pressure fluid to said drilling means for rotating the same, and means supplying scouring fluid to said drilling



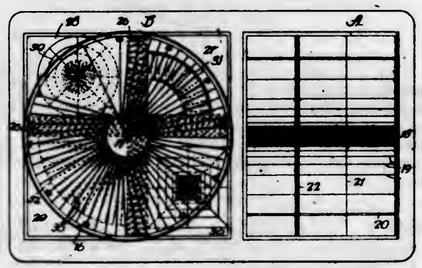
means, said pressure fluid after rotating said drilling means coöperating with said scouring fluid for scouring purposes.

1,390,026. INDEX-TAB. JOSEPH S. DUNCAN, Chicago, Ill. Filed Feb. 3, 1921. Serial No. 442,152. 8 Claims. (Cl. 40—23.)



7. The combination of an index card having tab retaining means, of an index tab comprising a member adapted to be fixedly engaged with said retaining means and having that portion thereof above the retaining means located partly behind and offset from the card, and a movable member pivotally mounted on said fixed member to swing between said fixed member and the card and having angularly disposed arms, and means on said tab for limiting the swinging movement of the movable member.

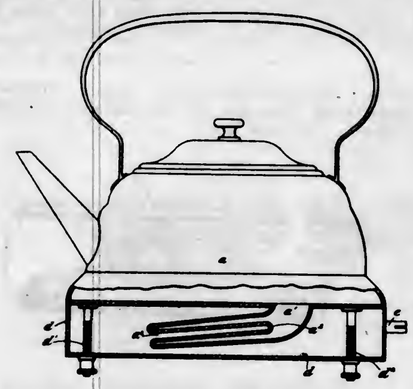
1,390,027. MEANS FOR CLASSIFYING BIFORMED ALPHABET. GEORGE FABYAN, Geneva, Ill. Filed May 10, 1917. Serial No. 167,738. 9 Claims. (Cl. 33—1.)



1. A templet for classifying bi-formed alphabet comprising a ruled transparent base and a transparent disk

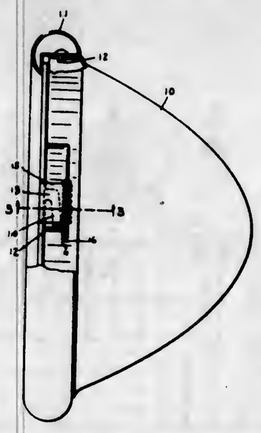
superposed over and rotatively mounted on said base and provided with a series of lines extending from its circumference inwardly and non-radial to the center of the disk.

1,390,028. ELECTRIC KETTLE AND THE LIKE. ALLEN SAMUEL FORD, Taunton, England. Filed Mar. 24, 1920. Serial No. 368,321. 8 Claims. (Cl. 219—43.)



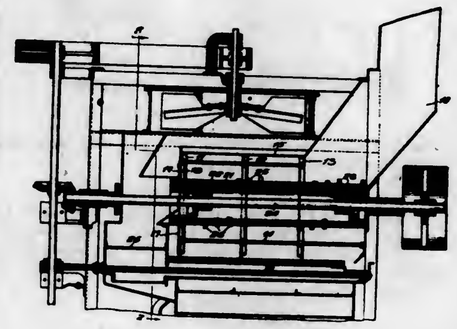
1. An electrically heated utensil of the class described, having a well formed in one wall thereof, and electrical heating means arranged to transmit heat to the well.

1,390,029. FASTENING MEANS FOR LAMP-LENSES. HARRY C. FOSTER and WILLIAM F. THOMS, Connersville, Ind., assignors to Indiana Lamp Company, a Corporation of Indiana. Filed Oct. 11, 1919. Serial No. 329,955. 3 Claims. (Cl. 292—302.)



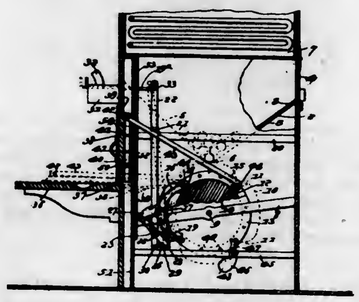
1. A fastening means for the lens rim of a lamp, including a casing having a slot therein with an opening at one end thereof, a rim adapted to fit on said casing, a lug mounted on said rim in position to enter said opening and pass into said slot when the rim is turned in locking position, a sliding member mounted on said casing so as to normally close said opening, and in position to engage said projection, and yielding means to cause said member to normally hold said projection in said slot and permit its removal therefrom.

1,390,030. CORN-SHELLER. ALBERT E. GILMAN, Ottawa, Ill., assignor to King & Hamilton Company, Ottawa, Ill., a Corporation of Illinois. Filed May 12, 1921. Serial No. 468,864. 3 Claims. (Cl. 130—6.)



1. In a corn sheller, the combination with a shelling concave, closed at one end except for a feed opening and at the other end except for a circular aperture with an adjacent discharge aperture connected thereto, of a shelling cylinder concentrically journaled in the concave and having its discharge end extended through the circular aperture for the purpose described, and means for rotating the cylinder.

1,390,031. VENDING-MACHINE FOR GROCERY COMMODITIES AND THE LIKE. WILTON J. GOUDEAU, Grider, Ark. Filed Apr. 9, 1921. Serial No. 459,879. 9 Claims. (Cl. 211—8.)

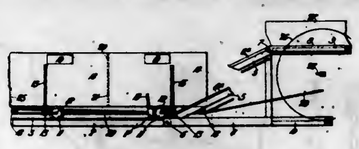


1. In a machine for the purpose indicated, a housing having a commodity receiving bin provided with a discharge opening, a revoluble intermittent movable delivery drum mounted in the housing at a point immediately below the discharge opening, said housing having an opening, a door controlling said opening, and means connecting the door coöperatively with the drum for imparting an intermittent motion thereto when the door is opened.

1,390,032. APPARATUS FOR HANDLING OF GRAIN IN BULK. ANDREW E. HEATH, Footscray, Melbourne, Victoria, Australia. Filed Dec. 4, 1919. Serial No. 342,462. 7 Claims. (Cl. 214—104.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

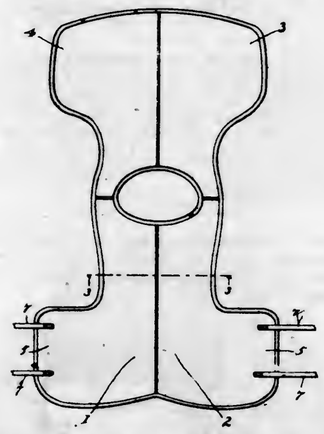
1. In grain-handling apparatus, the combination of a pair of horizontal rails and a ramp including a pair of inclined rails disposed in endwise alinement with the

horizontal rails and pivoted thereto at their lower ends, said horizontal rails and ramp being portable bodily as a unit; a truck; and a draw line connected to the truck



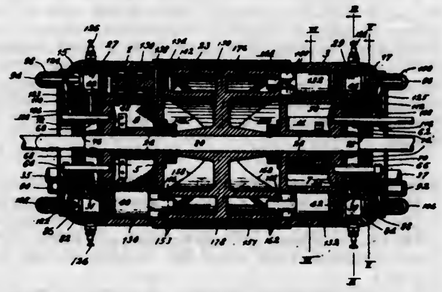
to haul it along the horizontal rails and then onto and upwardly along the ramp rails.

1,390,033. PAPER CHEST-PROTECTOR. EDWIN L. HENDERSON, Norwood, Ohio, assignor to The Kemper Thomas Company, Norwood, Ohio, a Corporation of Ohio. Filed May 26, 1919. Serial No. 299,819. 2 Claims. (Cl. 2—59.)



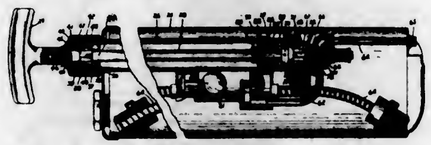
1. A garment for use as a vest, comprising a unitary front and back section, having means for securing the one section in position overlapping at the sides the other section, said garment being formed from elastic paper and a fabric lining loose from the paper and a binding strip for the edges of the garment for binding the free edges of the paper and fabric together.

1,390,034. INTERNAL-COMBUSTION ENGINE. WILLIAM C. HOWARD, Kansas City, Mo. Filed Jan. 9, 1919. Serial No. 270,281. 2 Claims. (Cl. 123—58.)



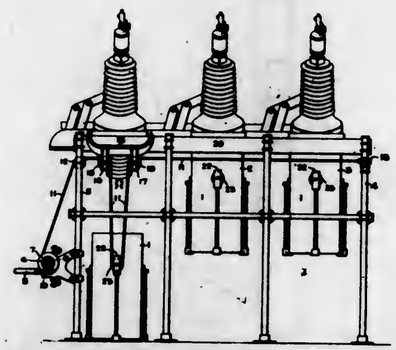
2. In an engine of the character described, a rotary shaft, two groups of alined cylinders paralleling said shaft and arranged about the same, pistons reciprocably mounted in said cylinders, self-closing inlet valves to said cylinders, self-closing exhaust valves to said cylinders, a cam wheel fixed on the rotary shaft between the two groups of cylinders and having a periphery with flanged margins which converge toward each other at certain points and diverge at other points, means operably connecting the pistons to said flanged margins, plungers for opening the exhaust valves, cams for actuating said plungers, cams for opening the inlet valves, shafts upon which the cams are fixedly-mounted, and timing gears driven by the first-mentioned shaft for driving the cam shafts.

1,390,035. FIRE-EXTINGUISHER. ROSCOE C. IDDINGS, Dayton, Ohio. Filed Apr. 10, 1919. Serial No. 288,933. 11 Claims. (Cl. 299—98.)



1. In a fire extinguisher, a pump having a valve seat in the end of the cylinder, a valve member carried by the piston and adapted to coöperate with said seat to close the end of the cylinder, and means for yieldingly holding said member on said seat, comprising: a stud projecting laterally from the piston rod, a cam which is engaged and displaced by said stud when the piston is rotated in the cylinder, and a spring whereby the cam is enabled to offer yielding resistance to said displacement.

1,390,036. ELECTRIC SWITCH. ERNEST H. JACOBS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Oct. 20, 1916 Serial No. 126,775. 9 Claims. (Cl. 200—150.)



1. In a switch having a plurality of coöperating contacts, a support for the switch, a plurality of separate oil vessels for said contacts removably secured to said support and means for removing said vessels from said support including a flexible means carried by said support and adapted to form loops, means carried by each oil vessel for engaging said loops and means coöperating with said flexible means to enable the formation of said loops.

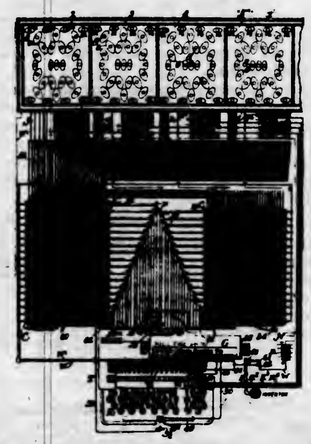
1,390,037. PROCESS FOR PURIFYING GASES. DAVID L. JACOBSON, Jersey City, N. J., assignor to The Koppers Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 22, 1920. Serial No. 418,810. 7 Claims. (Cl. 23—10.)

1. In a process of purifying fuel gas, the combination of steps that consists in: continuously passing the gas through an alkaline absorbent agent to absorb the hydrogen-sulfid impurities from the gas, continuously discharging the absorbent agent containing the absorbed impurities and subjecting it to aeration to remove the absorbed impurities, and continuously circulating the rejuvenated absorbent agent back to the gas purification step; substantially as specified.

1,390,038. MATERIAL FOR AND PROCESS OF FORMING BRICK, TILE, AND THE LIKE. LLEWELLYN JONES, Muncie, Ind., and CHARLES WESTLAKE, Jr., Youngstown, Ohio. Filed Sept. 4, 1919. Serial No. 321,551. 5 Claims. (Cl. 106—24.)

1. A material for dry pressing in the formation of brick, tile and the like, containing silica from 65 to 75%, lime from 20 to 30%, magnesia from 1½ to 3½% and sulfur from 1½ to 3½%.

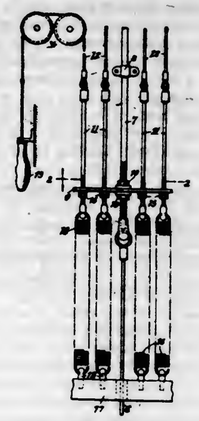
1,390,039. ELECTRIC BULLETIN. RALPH ERNEST JONES, U. S. Army. Filed Aug. 8, 1918. Serial No. 248,930. 19 Claims. (Cl. 177—349.)



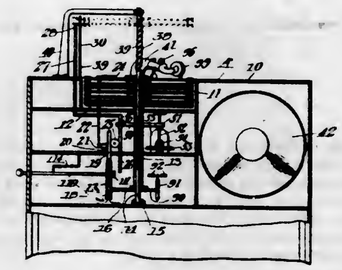
1. A bulletin comprising a bulletin board having a group of character forming units including lamps, a transmitter for operating the bulletin in electrical communication therewith, an electro-magnetically operated circuit closing switch for the lamp of each unit, means including a key-operated contact cylinder and contact bars, embodied in the transmitter for completing a primary discontinuous circuit through said switch to obtain the lighting of a set of said lamps to form a character, and self contained automatically operating means embodied in said switch for completing a secondary and continuous circuit therethrough to keep said set of lamps lighted.

1,390,040. MEANS FOR OPERATING SIGNALING DEVICES. JOHN A. KENNEY, Brooklyn, N. Y. Filed Sept. 30, 1920. Serial No. 413,943. 6 Claims. (Cl. 74—5.)

1. Means for operating signaling devices, comprising a controller secured to the main or lead line of the signaling device, a rigid operating element connected to each one of a number of operating or pull lines and adapted to act on the controller and so move the main or lead line when its pull line is manipulated and to remain stationary in inactive position when the main line is actuated by any of the other operating lines.



1,390,041. SOUND-REPRODUCING MACHINE. WALTER ROBERT KENNY, Ottawa, Ontario, Canada. Filed Sept. 2, 1919. Serial No. 321,196. 23 Claims. (Cl. 274—10.)



1. A sound reproducing machine having an elevated magazine, records mounted in the magazine, means for holding the records in position on the magazine, a vertical displaceable rod coacting with the last said means, an adjustable turn table, and means for actuating the rod to liberate the holding means and successively feed the records to the table and simultaneously lower the said table when receiving a new record.

3. A sound reproducing machine having a table adapted to successively receive records, a tone arm carrying a sound box and needle, means for rotating the tone arm in a horizontal plane comprising collector rings, coacting brushes and an electric motor and source of electrical supply, the said electrical means being inoperative while the needle is in engagement with a record.

6. A sound reproducing machine, comprising an adjustable table designed to successively receive records to be played, a tone arm, a sound box on the tone arm, a lever connected to the sound box, an electro-magnet controlling the operation of the lever, and a dash pot coacting with the lever, and means for rotating the table, as and for the purpose specified.

11. A sound reproducing machine comprising in combination a record table, records having spaced conducting portions adapted to make electrical contact with the record table when engaged therewith, a tone arm having a record engaging contact movable over the records into engage-

ment with the conducting portions thereof, a collector ring carried by the tone arm composed wholly of conducting material, a second collector ring carried by the tone arm having a major sector thereof presenting a conducting surface and a minor sector thereof presenting a non-conducting surface, a third collector ring carried by the tone arm having a major sector thereof presenting a non-conducting surface and a minor sector presenting a conducting surface, a brush engaged with each ring, a motor operable to actuate the tone arm, a connection leading from the motor to the brush of the first ring, a magnet carried by the tone arm, a connection leading from the first ring to said magnet, a connection leading from the magnet to the record engaging contact, a source of current supply, a connection leading from one terminal of said source of current supply to the motor, and connection leading from the opposite terminal of the source of current supply to the record receiving table and to the brush of the second collector ring respectively, a connection leading from the second collector ring to the magnet, and a switch having one contact connected to the third collector ring and the other contact connected to the second collector ring.

20. In a sound reproducing machine and in combination a record table means for successively feeding records on to said table, means for lowering said table a definite distance as each new record is deposited thereon, a prime mover for rotating said table, and means controlled by the lowering of the table to render the prime mover inoperative as the table reaches its lowermost position.

1,390,042. ROD-COUPLING. WILLIAM KIPPENHAN, Kewaskum, Wis. Filed Feb. 9, 1920. Serial No. 357,289. 3 Claims. (Cl. 287—98.)



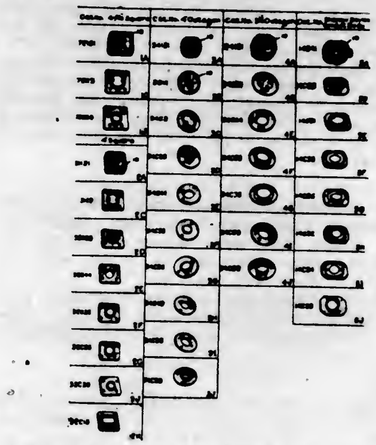
1. The combination of two members to be connected, of a coupling means comprising a wire coil surrounding one of the members, one end of the coil being extended to form a resilient arm, said arm being offset and extended in a direction parallel to the axis of the coil and having an eye formed therein and engaging one of the members to urge it into contact with the other.

1,390,043. TIRE-RETAINING RIM FOR AUTOMOBILE-WHEELS. EMANUEL W. KNAPP, Nevada, Ohio. Filed Dec. 24, 1919. Serial No. 347,248. 2 Claims. (Cl. 152—21.)



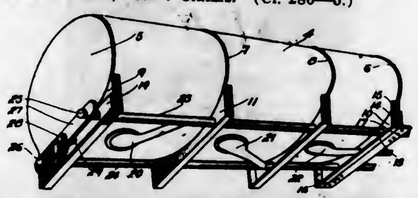
2. The combination with a felly, of an endless felly band and an endless rim section permanently engaging and overlying the substantially complete side and cylindrical faces of the felly, rivets passing through the felly and through the radial flanges of the band and the rim section for securing the parts together, an outer endless rim section engaging the radial flange of the felly band and its cylindrical portion, means independently of the rivets for detachably securing the last named rim section in position, the cylindrical part of the felly band having a gradual laterally sloping portion extending outwardly to facilitate the fitting engagement of the cylindrical part of the last named rim section on the cylindrical part of the felly band.

1,390,044. CHART FOR SELECTING OUTLET-BOXES AND COVERS. HOMER G. KNODERER, Englewood, N. J., assignor to General Electric Company, a Corporation of New York. Filed Oct. 18, 1920. Serial No. 417,641. 3 Claims. (Cl 283—1.)



1. In a chart of the class described, the combination of a plurality of representations of articles having different physical characteristics and a plurality of representations of elements arranged to coöperate with said articles also having different physical characteristics, certain of the physical characteristics of said elements being designed to adapt them for use interchangeably with certain only of said articles, each of said article representations having a character adjacent thereto identifying certain characteristics of the article necessary to coöperate therewith and each of said article representations having a character adjacent thereto identical with the element designation identifying the article characterisics.

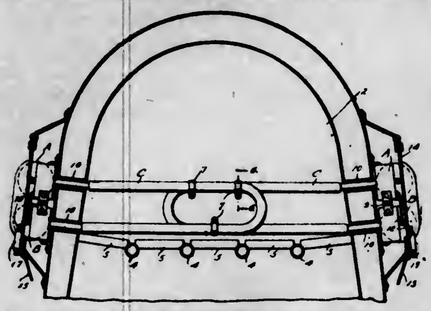
1,390,045. VEHICLE-TANK CONSTRUCTION. ANDREW A. KRAMER, Kansas Cly, Mo. Filed Dec. 23, 1920. Serial No. 432,809. 7 Claims. (Cl. 280—5.)



1. A wagon tank, bolsters supporting it, bracing and dispensing pipes connecting the bolsters, means for communicating the pipes with the tank so that the pipes serve as braces for the bolsters and also as dispensing conduits, the ends of the pipes projecting beyond the tank, a journal bearing-member support connecting the ends of the pipes at one end of the tank, a flexible frame beneath the bolsters, a stabilising connection between one end of the tank and one end of the flexible frame, a supporting bar on the frame having an opening alining with openings in the journal bearing member and in an end bolster, and a pivot journal passing through the openings to pivotally support the tank to the frame at the other end.

1,390,046. SUPERHEATER. WILLIAM GRINNELL LANDON, New York, N. Y. Filed Dec. 22, 1919. Serial No. 346,476. 5 Claims. (Cl. 122—481.)

5. The combination with a locomotive boiler having a fire box, of a superheater comprising two series of oppositely disposed return bent steam carrying elements, the elements of one series positioned between the elements of the other series, the ends of the elements of the respective series being projected through the walls of the fire box, a pair of headers on each side of the fire box communicating with the elements projecting through the wall adjacent thereto, said elements having walls of increased thick-



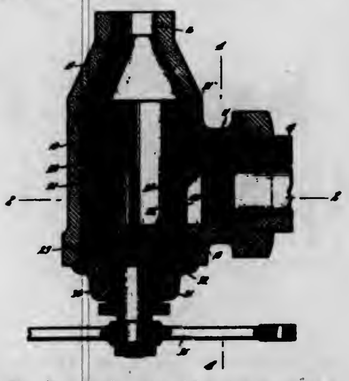
ness within the fire box, and the elements of one series having recesses receiving the elements of the other series therein, devices clamping the elements of one series to the elements of the other series, casings around the headers, and means for admitting a draft of air through the casings into the fire box.

1,390,047. SPRAYING-NOZZLE. WILLIAM LANGE, New York, N. Y. Filed Mar. 12, 1919. Serial No. 282,060. 2 Claims. (Cl. 299—105.)



1. A spraying nozzle adapted to be interposed in a pipe line, comprising an interiorly and exteriorly threaded sleeve, said exterior threads being adapted to be secured in a threaded opening of the pipe line, a chamber having open upper end and a closed lower end and provided in one side at the closed end with a tangential inlet opening, said chamber having its upper end exteriorly threaded for engagement with the interior threads of the lower end of the sleeve, and a cap having an exteriorly threaded lower end screwing into the upper end of the sleeve, said cap being gradually reduced and having an outwardly flared outlet in its reduced top.

1,390,048. SPRAYING-NOZZLE. WILLIAM LANGE, New York, N. Y. Filed Apr. 2, 1920. Serial No. 370,762. 8 Claims. (Cl. 299—115.)



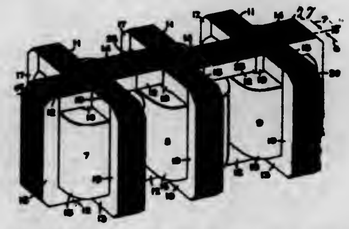
1. A spraying nozzle, comprising two concentric chambers forming an annular passage between them, means for delivering liquid approximately tangential to the said passage and the inner chamber to produce independent whirling actions of the liquids in the said passage and the said inner chamber, the outer chamber having a contracted outlet at the top and the said inner chamber discharging at its top into the outer chamber intermediate the said passage and the said outlet.

1,390,049. POCKETBOOK AND THE LIKE. LOUIS LANGLEE, New York, N. Y. Filed Sept. 9, 1919. Serial No. 322,663. 1 Claim. (Cl. 150—30.)



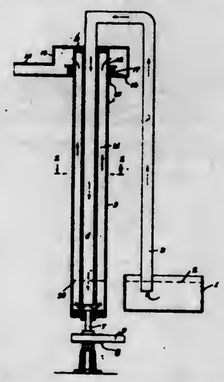
A pocket-book comprising connected front and back members of leather, a lining other than leather and having end portions with folds converging toward the bottom and forming pockets, said portion of the lining forming the pockets being integral with the converging end folds, and end members of leather and having folds corresponding with the folds of the end portions of the lining and on the outer face of the same, the outer edges and bottoms of the end members being stitched to the end edges and bottom of the front and back members.

1,390,050. TRANSFORMER. CORLISS E. LEE, Pittsfield, Mass., assignor to General Electric Company, a Corporation of New York. Filed Sept. 10, 1917. Serial No. 190,419. 7 Claims. (Cl. 175—356.)



7. A polyphase transformer comprising a plurality of distributed core type transformer elements and magnetic material uniting said elements arranged whereby said elements have a plurality of magnetic circuits in common.

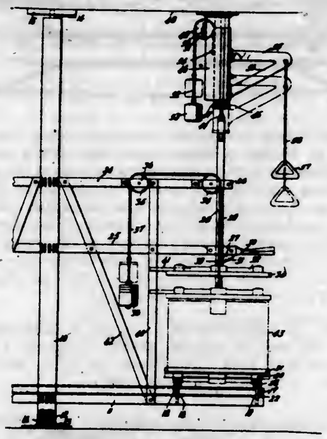
1,390,051. PUMPING DEVICE. GEORGE K. LIGHT, Brooklyn, N. Y. Filed Apr. 24, 1920. Serial No. 376,393. 2 Claims. (Cl. 103—48.)



1. A pumping device comprising a vertically disposed rotatable receptacle, a plurality of radially extending

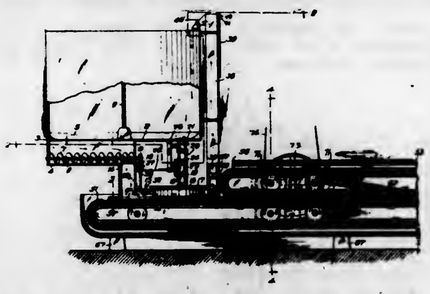
blades extending longitudinally within said receptacle, discharge openings at the upper end of said receptacle, and a siphon associated with said receptacle, the longer arm of said siphon extending into and disposed adjacent the bottom of said receptacle whereby when the normal level of the liquid within the receptacle is altered by the rotation of the receptacle the siphon will immediately supply more liquid to the receptacle.

1,390,052. BOX-GLUING APPARATUS. ORLO A. LUCAS, Richwood, W. Va. Filed Aug. 20, 1920. Serial No. 404,813. 6 Claims. (Cl. 93—36.)



1. In an apparatus of the character described a supporting element provided with a plurality of box receiving members adapted to support the boxes having glued covers, each of said box supporting members having a resilient supporting platform, means for pressing the cover of said box until said glue is dry and a releasing mechanism arranged adjacent said rotatable supporting element, said releasing mechanism acting to release said pressing means from the box as the respective boxes pass the same.

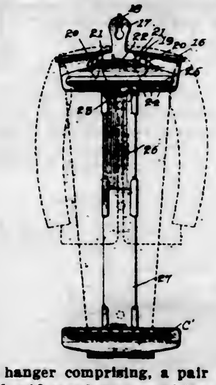
1,390,053. COTTON-SEED-MEAL PRESS. JAMES ROBERT MCCLUNG, Carter, Okla. Filed Oct. 1, 1920. Serial No. 414,038. 6 Claims. (Cl. 100—35.)



1. In a press, having two endless superposed belts, slightly spaced apart, one of said belts being slightly longitudinally inclined with reference to the other belt, so that the space between the two belts is of gradually decreasing depth, a hopper for cotton seed meal, a chute leading from said hopper for conveying said cotton seed meal from said hopper to said belts, a rotatable meal spreading member interposed between said chute and the point where the meal passes between said belts, said spreader comprising a spider wheel having a plurality of radial blades disposed slightly above the lower belt, a portion of the meal passing through said chute and beneath said wheel to the passage between said belts, and a portion of said meal being taken up by said wheel, the combination of means including an endless series of conveyer buckets for conveying back to the hopper the meal taken up by said wheel.

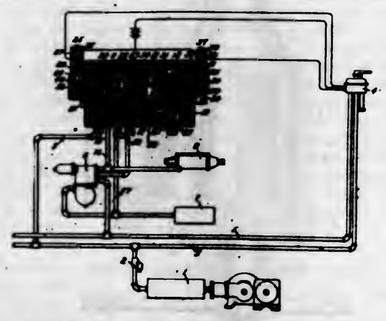
5. In a press, the combination of a casing, two endless superposed belts disposed in said casing and slightly spaced apart, one of said belts being longitudinally inclined with respect to the other belt, longitudinally extending ribs carried interiorly by said casing, the lower belt having longitudinally extending grooves engaged by said ribs.

1,390,054. CLOTHES HANGER AND PRESSER. MARION GERARD MCNEELY, Alpaugh, Calif. Filed Dec. 3, 1919. Serial No. 342,072. 1 Claim. (Cl. 223—19.)



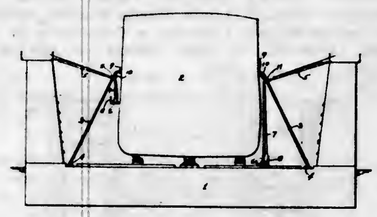
A clothes hanger comprising, a pair of clamping members, each of said members comprising a stationary plate and a movable plate hinged to and urged toward the stationary plate, laterally extending flanges formed integrally with the stationary plate of one of the members and curved longitudinally and transversely to provide coat supporting elements, extensions formed on both of the stationary plates, lips carried by said extensions, and a frame comprising a pair of sections slidably and detachably associated with said extensions, lips carried by one of the sections to slidably and detachably receive the other section, and set screws carried by said extensions and one of said sections for locking the sections and extensions together.

1,390,055. ELECTROPNEUMATIC BRAKE. GEORGE MACLOSKIE, Erie, Pa., assignor to General Electric Company, a Corporation of New York. Filed Jan. 17, 1921. Serial No. 437,654. 6 Claims. (Cl. 303—15.)



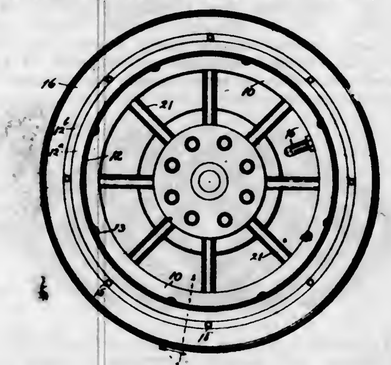
1. In an electropneumatic brake, the combination with a control pipe, brake pipe, auxiliary reservoir, brake cylinder and triple valve, of a piston subject to the opposing pressures of the control pipe and auxiliary reservoir, a valve operated by said piston controlling the exhaust port of said triple valve, and an electrically controlled valve for venting fluid from the control pipe side of said piston to effect the operation of said valve to cut off communication through the exhaust port of the triple valve.

1,390,056. DOCKING APPLIANCE. JOSEPH NIEBERDING, Baltimore, Md. Filed Sept. 14, 1920. Serial No. 410,133. 2 Claims. (Cl. 61—63.)



1. In a docking appliance, the combination of a member, means for pivoting one end of the said member to the floor of a dock, means operable from the top of the dock wall to adjust said member relative to a member being docked, a staging suspended from the upper end of said member and means operable from said staging for adjusting the vertical position thereof.

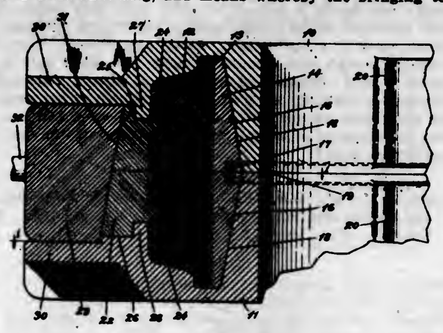
1,390,057. PNEUMATIC AND CUSHION TIRE. GEORGE W. OKEY, Des Moines, Iowa. Filed Mar. 20, 1920. Serial No. 367,379. 3 Claims. (Cl. 152—10.)



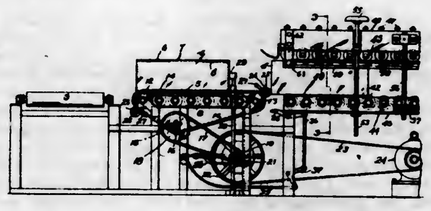
3. The combination with a wheel having a felly, of a rim formed in two members, one member of the rim extending across and fixed to and projecting laterally from opposite sides of the felly and having a peripheral flange integral with one margin and laterally spaced from the felly, the other member of the rim overlapping on the inner surface of the first member and detachably secured thereto, the second member of the rim also being formed with a peripheral flange integral with one margin and laterally spaced from the felly, said flanges being adapted to embrace a tire.

1,390,058. TIRE-MOLD. VICTOR A. PARKER, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 4, 1919. Serial No. 335,710. 8 Claims. (Cl. 18—42.)

1. A rubber-tire mold comprising two main molding rings and an interposing segmental tread-molding ring, inclosing between them an annular molding cavity, one of said main rings having a seat substantially parallel with the general plane of the mold on which the segments of the tread-molding ring are radially slidable to open and close said ring, and means whereby the bringing together of said main mold rings contracts said tread-molding ring upon the tire.

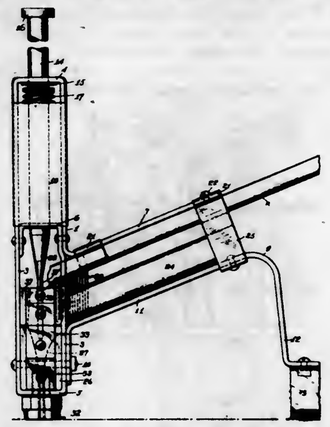


1,390,059. BOX-SEALING MACHINE. WILLIAM PEET, Kansas City, Mo. Filed May 21, 1919. Serial No. 298,708. 15 Claims. (Cl. 93—2.)



1. An apparatus for sealing boxes, comprising pressing means through which the boxes pass, mechanism for feeding boxes into the pressing means, and means operated by the box for throwing the feeding mechanism into operation.

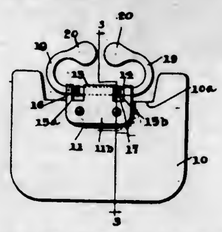
1,390,060. NAIL DRIVING AND SETTING MACHINE. ADOLPH RIVER, Brooklyn, N. Y. Filed Feb. 11, 1921. Serial No. 444,149. 7 Claims. (Cl. 1—46.)



2. In a machine of the character described, a hollow standard, a pair of blocks fixed in the lower end of the standard and having opposed recesses therein forming a socket, spring plates having one end fixed to the outer faces of said blocks, a pair of jaws secured to the other

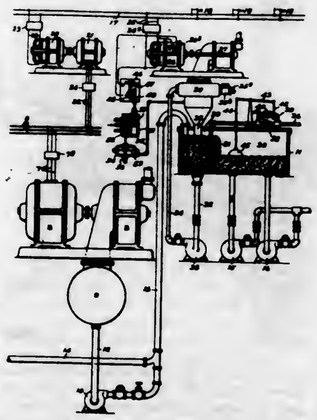
ends of the plates and coöperating to form an expansible socket, a gravity nail feeder, said expansible socket normally preventing a passage of nails from said feeder, a nail receiving channel communicating with said first-mentioned socket, a spring-held driver bar movable downwardly through said channel to drive and set a nail located in said channel and including a tapered shoulder engageable with the walls of said expansible socket upon its downward movement to operate the socket and permit the dropping of a nail from the feeder into the first-mentioned socket.

1,390,061. CALF-WEANER. FRANK SCHMIDT, Swanwick, Ill. Filed Sept. 18, 1920. Serial No. 411,154. 2 Claims. (Cl. 119—132.)



1. A device of the character described comprising a mouth plate recessed at its upper end, a bracket bearing disposed in the recess of said mouth plate and constructed of a single piece of resilient metal bent to form a pair of plates having portions embracing the adjacent portions of the mouth plate and portions defining the bearing, said portions defining the bearing being provided with spaced notches, means extending through the spaced plates and the mouth plate for securing the spaced plates to the mouth plate, a rotatable hanger shaft mounted in said bearing and consisting of two semi-cylindrical sections overlapped and having their plane surfaces abutting and having alined openings disposed in said notches, a cotter pin extending through each set of said alined openings for securing the sections together and preventing longitudinal displacement of the hanger shaft and hanger arms integrally formed with each end of their hanger shaft and having enlargements at their extremities adapted for engagement with the nostrils of the animal.

1,390,062. POWER PLANT. ARTHUR R. SMITH, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Dec. 15, 1920. Serial No. 430,861. 9 Claims. (Cl. 290—2.)



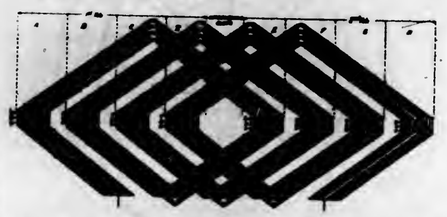
9. In a power plant, a main prime mover, a generator driven thereby, auxiliaries, motors for driving them, a second prime mover and a motor which is connected to said generator for supplying power to the motors of the auxiliaries, a condenser for the main prime mover, a condenser for the second prime mover which utilizes condensate from the first named prime mover as cooling liquid, and means for automatically dividing the load between the motor and second named turbine so as to maintain substantially constant vacuum in the second named condenser.

1,390,063. WINDING FOR DYNAMO-ELECTRIC MACHINES. HENRY WILLIAM TAYLOR, Bilton, and FREDERICK HORTON CLOUGH, Rugby, England, assignors to General Electric Company, a Corporation of New York. Filed Dec. 9, 1920. Serial No. 429,499. 3 Claims. (Cl. 171—206.)



1. An armature provided with slots and a winding occupying two of said slots and formed of a conductor composed of a plurality of sections, said sections being insulated from each other throughout the winding and occupying through adjacent turns successive positions within the conductor, the sum of the constant flux elements linking the conductor being the same for each turn of the winding.

1,390,064. WINDING FOR DYNAMO-ELECTRIC MACHINES. HENRY WILLIAM TAYLOR, Bilton, and FREDERICK HORTON CLOUGH, Rugby, England, assignors to General Electric Company, a Corporation of New York. Filed Dec. 9, 1920. Serial No. 429,500. 2 Claims. (Cl. 171—206.)

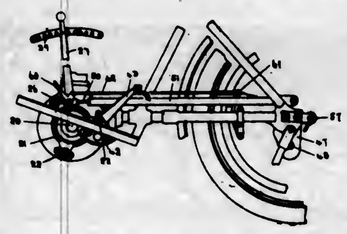


1. An armature provided with slots and a winding located therein, said winding comprising a plurality of sections, each of which is composed of a group of laminations, said sections and laminations being each insulated from one another throughout the winding and connected at their ends in multiple, each section from one end to the other of said winding occupying successively all positions within a slot and the order of the laminations within each section being reversed in certain of the half turns from their order in the remaining half turns of the section, whereby the total number of flux elements linking the laminations of each section in one direction is equal and opposite to the total number of flux elements linking the laminations of each section in the opposite direction.

1,390,065. COMBINED VARIABLE-SPEED, CLUTCH, AND FREE-WHEEL DEVICE FOR MOTORCYCLES. ALFRED HERMAN TRAEGER, Kensington Gardens, South Australia, Australia. Filed Mar. 16, 1920. Serial No. 366,226. 6 Claims. (Cl. 180—30.)

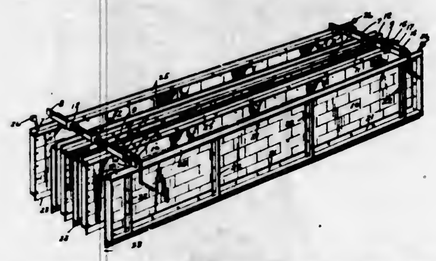
1. In a motor cycle having an expanding V pulley drive:—the means for mounting and moving the rear wheel consisting in mounting the axle in two plates as

47 pivoted at their lower end to the cycle frame and connected at their upper end by a forked adjustable con-



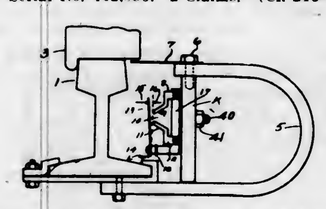
necting rod to a lug as 26 projecting from the governor ring whereby the V pulley is opened and closed, substantially as described.

1,390,066. FORM FOR CONCRETE WALLS. ERICK TROOLIN, Braham, Minn. Filed July 29, 1920. Serial No. 399,858. 2 Claims. (Cl. 25—131.)



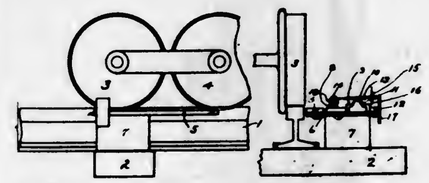
1. A form for concrete walls having in combination two rectangular bars disposed with their long sides vertical and contacting, and straps embracing and securing said bars together, a bearing secured at the end of one bar, a screw rod journaled in said bearing, a long collar at one side of said bearing and a short collar at the other side thereof, said collars being secured to said rod and a nut collar engaging said rod secured to the other bar, said long collar forming a stop for said nut collar and spaced plates depending from and alternately secured to said bars.

1,390,067. RAILWAY-CROSSING SIGNAL. THOMAS W. VARLEY and WILLIAM C. NEIN, New York, N. Y. Filed Sept. 18, 1916, Serial No. 119,881. Renewed Feb. 5, 1921. Serial No. 442,890. 2 Claims. (Cl. 246—63.)



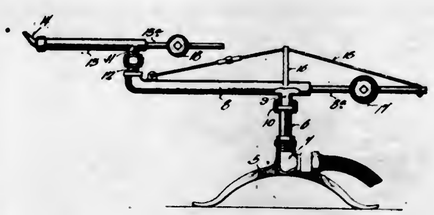
1. In a contact device, the combination with a railway track extending along a fixed right of way, of a U shaped magnet having one end in magnetic contact with one rail only of said track and its other end separated from said rail by an air gap, magnetic members, having a gap between them, extending between the poles of said magnet, a magnetic armature across said gap and contacts controlled by said armature, the first mentioned gap being adapted to have its flux varied by the passage of a wheel on said rail, to change the flux through the said magnetic members and armature to operate the last.

1,390,068. CROSSING-SIGNAL. THOMAS W. VARLEY and WILLIAM C. NEIN, New York, N. Y. Filed Mar. 28, 1916, Serial No. 86,145. Renewed Feb. 5, 1921. Serial No. 442,891. 7 Claims. (Cl. 246—63.)



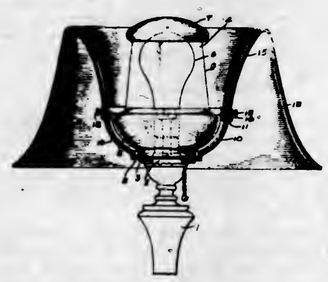
1. In a contact device, the combination with a railway track extending along a fixed right of way, of a magnet extending along a rail of said track, magnetic members, having a gap between them, extending at an angle from said magnet, a magnetic armature across said gap and contacts controlled by said armature.

1,390,069. SPRAY. JOHN VAUDREUIL, Milwaukee, Wis. Filed June 7, 1919. Serial No. 302,461. 5 Claims. (Cl. 299—69.)



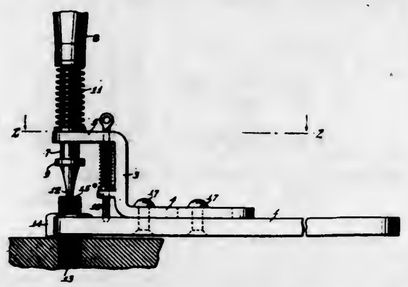
1. A fluid distributing device including a vertical supply pipe, an imperforate supply tube mounted on the supply pipe or horizontal rotation and communicating with the supply pipe, a distributing tube swivelly mounted on the supply tube at a point remote from the axis of rotation of the supply tube and a discharge nozzle on the distributing tube directed laterally whereby to rotate the distributing tube and to impart differential rotation to the supply tube.

1,390,070. LAMP. GUSTAVE E. VILLARET, New York, N. Y. Filed Dec. 11, 1920. Serial No. 429,985. 6 Claims. (Cl. 240—81.)



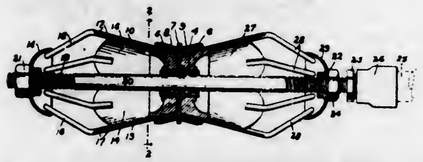
1. A portable lamp, comprising a support, a globe on the support, a shade holder independent of the globe and connected to the support, and a shade located around the globe and having at its upper end a downwardly and inwardly projecting reflecting portion positioned around the globe and located upon said shade holder.

1,390,071. TOOL. HENRY AUGUST WETSTEIN, Brooklyn, N. Y. Filed Mar. 5, 1921. Serial No. 449,639. 4 Claims. (Cl. 81—8.)



1. A tool of the character described, including a bar having a nut receiving socket in one end, an angle bracket removably connected to the bar and including a perforated arm located over the socket, a spring held plunger rotatably supported by the arm, and means normally retaining the bar and the bracket in locked relationship.

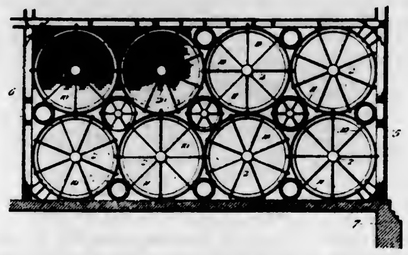
1,390,072. FLUE-SCRAPER. EDGAR ABER, St. Joseph, Mich. Filed May 16, 1919. Serial No. 297,488. 6 Claims. (Cl. 83—64.)



1. In a flue scraper, the combination of a stem, a plurality of cup shaped caps mounted upon said stem and facing each other, a sleeve loose on the stem, between the caps, a pair of nuts encircling and in engagement with said sleeve and having outwardly inclined faces, bands encircling the nuts, a number of scraper blades arranged in two groups, each group of blades being secured upon one of said nuts by one of said bands, said blades having cutting edges so arranged that the cutting edges of the blades of one group extend in one direction and the cutting edges of the blades of the other group extend in the opposite direction, and a finger of spring material secured to each blade and standing at an obtuse angle thereto, there being two groups of spring fingers, one associated with each group of blades, the spring fingers of respective groups of spring fingers extending respectively into the different caps.

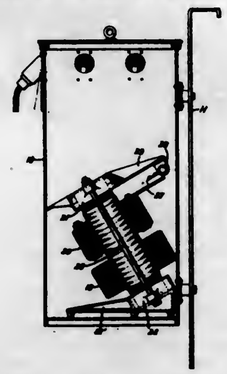
1,390,073. CONCRETE-REINFORCING METAL UNIT FOR THE WALLS, FLOORS, AND CEILINGS OF BUILDINGS AND FOR OTHER CONCRETE CONSTRUCTION WORK. OREEN ALLEN, Denver, Colo. Filed May 22, 1920. Serial No. 383,503. 3 Claims. (Cl. 72—110.)

1. In a concrete reinforcing unit, the combination of a hub base provided with a plurality of rods radiating from it at predetermined distances apart, and of any predetermined length, and a single circumscribing rim member surrounding said hub base at a predetermind distance from it and secured to the outer terminal ends of said rods, said rim member and the outer ends of said rods being so coöperatively arranged and connected as to secure said rim under a compressive tension against said hub base, a rod extending transversely through said hub base to the radial direction of the rim rods a predetermined distance, a hub base on the outer end of said transverse



rod, and rods secured at one end to the hub base on the end of said transverse rod, and extending to and secured under tension to said rim.

1,390,074. CONSTANT-CURRENT TRANSFORMER. LYMAN ARNOLD, Lynn, Mass., assignor to General Electric Company, a Corporation of New York. Filed Mar. 14, 1918. Serial No. 222,292. 3 Claims. (Cl. 171—119.)



1. A constant current transformer, comprising a core having a substantially rectilinear winding leg, fixed and movable windings on said leg, and means for pivotally suspending the movable winding from the core on an axis perpendicular to said leg, said core being tilted to have its winding leg inclined to the vertical in a plane perpendicular to said axis of suspension.

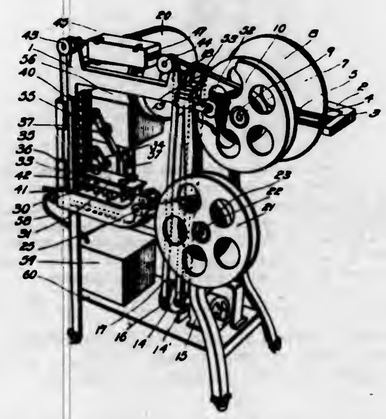
1,390,075. HEEL WITH INTERCHANGEABLE TREAD. GUSTAV BECHER, Wald, Germany. Filed Nov. 13, 1919. Serial No. 337,890. 1 Claim. (Cl. 36—42.)



A heel comprising an upper fixed portion having a recess in its face, a plate covering said recess and having

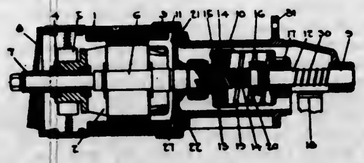
a rectangular opening and a circular opening, a detachable portion having a resilient metallic plate secured at its ends only laterally across the same and provided centrally thereof with a bolt having a rectangular head, and a second resilient plate secured at one of its ends to the rear of said detachable portion and extending longitudinally thereof and having near its free end a round pin, the construction and arrangement being such that the head of said bolt can pass through the rectangular opening in said first named plate to engage above said plate when the said detachable heel is turned and that the said pin engages in the said circular hole for the purpose of locking the detachable portion against rotation.

1,390,076. FILM-CLEANING DEVICE. GEORGE H. BENNETT, Kansas City, Mo. Filed Mar. 5, 1921. Serial No. 449,670. 3 Claims. (Cl. 15—8.)



1. In a film cleaning machine, film delivery and receiving members, a conduit between said members, paired racks in said conduit, between which a film may pass and each comprising separate wiping members inclined in the direction of travel of the film and terminating in flexible contact lips adapted for engaging a film, and an individual clamp for securing each wiping member to its rack.

1,390,077. DYNAMO CONSTRUCTION FOR MOTOR-VEHICLES. JOSEPH BIJUR, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company, a Corporation of Delaware. Filed Dec. 28, 1917. Serial No. 209,267. 11 Claims. (Cl. 74—7.)



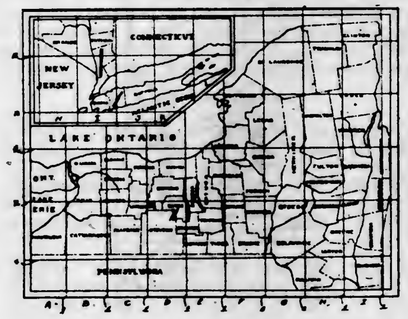
1. In a starting motor unit, in combination, a rotor having a shaft, a casing for said rotor carrying bearings for lodging the journals of said shaft, a driving member for an engine connected to be driven from said shaft, and mounted between said rotor and the journal nearest thereto on one side thereof, and a limiting member fixed between said rotor and said driving member, adjacent to but spaced from said shaft at all points, and adapted upon slight bending of said shaft to be contacted thereby for preventing excessive bending of said shaft.

1,390,078. GREASE-CUP. JOHN B. BLAIN, Rochester, N. Y. Filed June 13, 1919, Serial No. 303,971. Renewed July 19, 1921. Serial No. 485,850. 3 Claims. (Cl. 74—108.)



1. A cylinder and a piston therefor said piston having an annular seat, said piston being under cut on the inner side of said seat, a U-shaped packing on said seat engaging with the cylinder, said packing being held in place by the shape of the seat.

1,390,079. MAP. ARTHUR E. BLOOMFIELD, Rochester, N. Y. Filed Dec. 16, 1920. Serial No. 431,195. 2 Claims. (Cl. 283—34.)

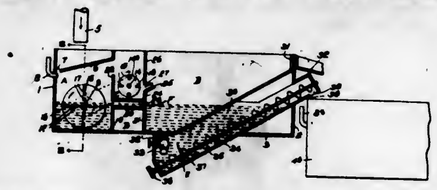


1. A book map having pages provided with matching sections of a map of a given geographical area, the sections being formed by divisions of the map area in two directions at right angles to each other providing parallel sets, each set having its members arranged on successive pages of the book in the order in which the members occur in the set from one side of the map area, each section being provided at those edges which match with the members of its set, with means which will indicate any position on its edge, on the matching edge of its matching member, the parallel sets of sections being arranged in the book in the order in which they occur from one side of the map and the sections also having their matching edges between the sets provided with indicating means by which any position on the edge of a member of one set may be found on the edge of a section of a matching set.

1,390,080. ORE-SEPARATOR. SAMUEL L. BOGGS, Ivanhoe, Va. Filed Oct. 16, 1919. Serial No. 331,014. 10 Claims. (Cl. 83—85.)

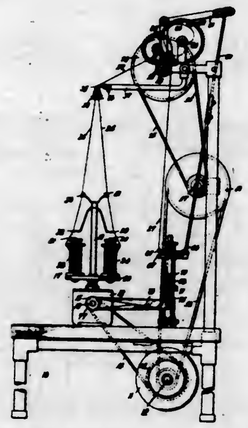
1. Apparatus for separating ore from gangue, comprising a container, means to feed a mixture to be separated to the container, an agitating device situated in a compartment beneath the feed device, a supplementary compartment adjacent to the first mentioned compartment extending across the tank and adapted to receive frothed material from the said agitating device and to discharge the frothed material into a main settlement chamber, an agitating device situated in the supplementary compart-

ment, a main settlement chamber beyond the supplementary compartment, the said main settlement chamber



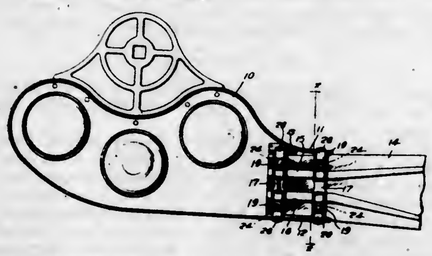
being connected to the first mentioned compartment by a passage beneath the supplementary agitation compartment.

1,390,081. SILK-THROWING MACHINE. PAUL HYDE BONNER, New York, N. Y., assignor to Stehli Silks Corporation, New York, N. Y., a Corporation of New York. Filed July 31, 1920. Serial No. 400,410. 5 Claims. (Cl. 28—34.)



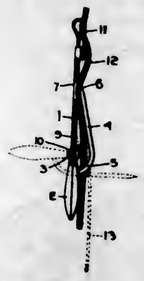
1. A silk throwing machine comprising twisting means for twisting at least two silk ends together to form a low twist thread, take up rollers for taking up and imparting a traveling motion to said threads, means for operating the said rollers at considerably less speed than that of the said twisting means, twisting and winding means receiving the thread from the take up rollers and twisting it to form a high twist thread and winding it onto a spool, and means for operating the twisting and winding means at considerably greater speed than the low twisting means.

1,390,082. SEMAPHORE. WILLIAM F. BOSSERT, Utica, N. Y. Filed June 1, 1921. Serial No. 474,187. 8 Claims. (Cl. 246—482.)



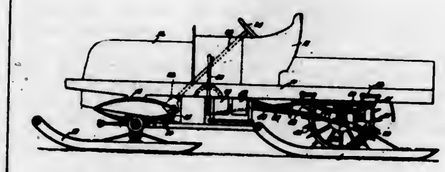
1. The combination with a spectacle of usual and ordinary construction, of a semaphore blade having longitudinal corrugations therein, a clamping member conformed to engage the corrugations of the blade, and wedging members co-acting with the clamping member clamping such member into engagement with the blade and exerting stress upon the margins of the spectacle.

1,390,083. NAPKIN-HOLDER. PHILIP A. BOWEN, Lynn, Mass. Filed June 17, 1921. Serial No. 478,285. 3 Claims. (Cl. 24—7.)



1. A napkin holder comprising a body member adapted to be attached to a garment on the inside thereof, a pin-supporting member pivoted to the body member, a napkin-holding pin secured to the pin-supporting member and adapted to be inserted through the garment and placed in position to support a napkin by the swinging movement of the said pin-supporting member.

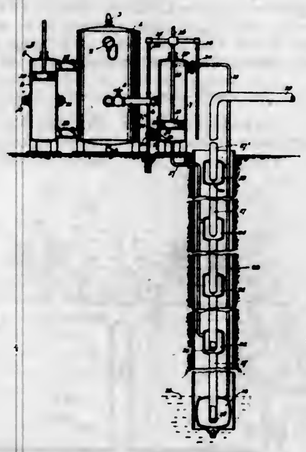
1,390,084. MOTOR-SLEIGH. GEORGE BROWNLEE, Victoria, British Columbia, Canada. Filed May 20, 1920. Serial No. 382,914. 3 Claims. (Cl. 180—6.)



1. In a motor sleigh, a body, bolsters secured thereto, supporting runners carried by the bolsters, means for connecting the runners to the bolsters to permit of independent relative movements of the same, a traction driving mechanism, means for effecting vertical adjustments of the same with respect to the body and the running gear, a supplemental swinging supporting connection between the driving mechanism and the rear bolster having limited swinging movement, said connection consisting of interengageable male and female members, the said means for effecting vertical adjustments of the driving mechanism comprising double bell crank levers having connection at one end with the traction elements, and a lever pivoted adjacent the driver's seat having connection with the opposite ends of said bell cranks.

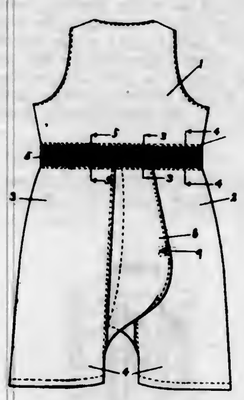
1,390,085. DEEP-WELL PUMP. SALVATORE CASSISA, New York, N. Y. Filed May 26, 1920. Serial No. 384,489. 4 Claims. (Cl. 103—8.)

3. In a device of the character described the combination of a water elevator provided with a plurality of pipes, and means for using air alternately passing through said pipes, of a compressor for alternately forcing compressed air into said pipes, and a valve co-acting



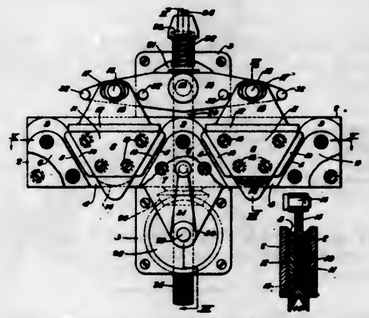
with each of said pipes for opening the device to the atmosphere and simultaneously opening the compressor to the atmosphere.

1,390,086. UNION-SUIT. CARL A. CLEMENTS, Grand Rapids, Mich. Filed Jan. 17, 1921. Serial No. 437,841. 3 Claims. (Cl. 2—144.)



1. A union suit comprising a back having an insert composed of superimposed strips of elastic material both extending from side to side across the garment separate at their lower edges and secured at their upper edges to the upper part of the garment, the garment having a rear opening extending upwardly from the crotch to the insert, the back portion below said insert comprising overlapping back members, the upper edge of the inner of said back members being secured to the lower edge of the inner of said insert strips only, and the upper edge of the outer of said back members being secured to the lower edge of the outer of said insert strips only with the edges of said back members normally in overlapping relation, whereby one of the insert strips may yield independently of the other.

1,390,087. CLAMP. WILLIAM F. CONKLIN, Tarentum, Pa. Filed Oct. 21, 1920. Serial No. 418,508. 10 Claims. (Cl. 24—136.)

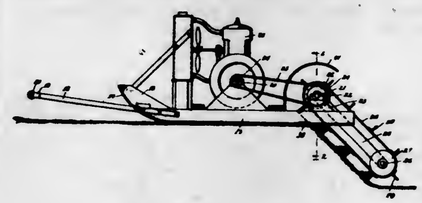


8. A clamping device for flexible members comprising a body having an undulating passageway therein through which a flexible member may be passed, movable clamping members co-acting with the undulating portions of the body, a lever pivoted between its ends and having one of said movable clamping members connected thereto at each side of its pivot point, and means for moving said lever relatively to the body to move said clamping members into or out of the undulating passageway.

1,390,088. INSECTICIDE. ANTONE CONSTANTIN, New York, N. Y. Filed Mar. 26, 1920. Serial No. 369,073. 1 Claim. (Cl. 167—6.)

An insecticide, containing lard, soap, chromate of lead, ferric ferrocyanid, and barytes in about the proportions specified.

1,390,089. APPARATUS FOR TILLING THE SOIL. CARSON CAUGHEY COOK, Stockton, Calif. Filed May 15, 1920. Serial No. 381,716. 6 Claims. (Cl. 97—72.)

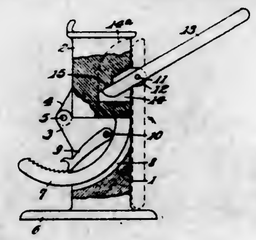


1. An apparatus for tilling the soil, a sled adapted to be dragged over the ground so as to bend the vegetable growth flat on the ground, power means on the sled, a knife secured to and extending transversely of the frame, and a movable cutting element mounted on the frame in rear of the knife and adjacent thereto, said cutting element coöperating with the knife to cut the vegetable growth into pieces and to dig a trench and to return the earth and pieces of vegetable growth back into the trench.

1,390,090. AUTOMOBILE-JACK. VAN V. CURTIS, Follansbee, W. Va. Filed Apr. 9, 1921. Serial No. 459,952. 4 Claims. (Cl. 254—101.)

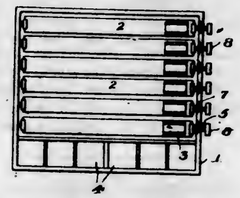
1. An automobile jack comprising a standard composed of hinged sections, the lower section having a passage

therein, a curved rack-bar carried by the upper section and movable through said passage with rocking movement



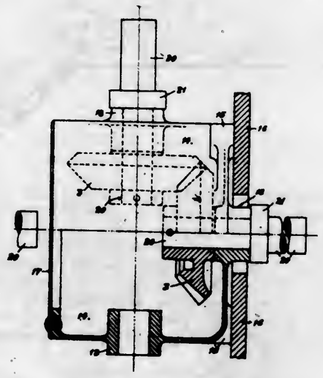
of said upper section, a pawl arranged to coöperate with said rack-bar, and an operating lever carried by said upper section.

1,390,091. LIST-RACK. IRVIN A. CARR, Waukegan, Ill. Filed July 3, 1920. Serial No. 393,794. 3 Claims. (Cl. 40—68.)



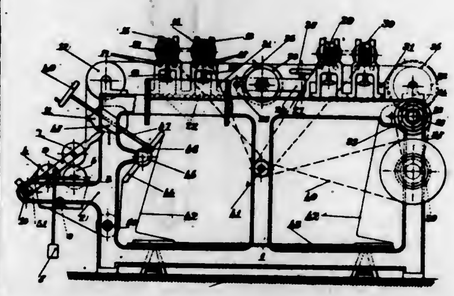
1. A list rack comprising a frame, a name plate, stub shafts for rotatably connecting the plate to the frame, one of such shafts being provided with a projection, a knob for turning one of the shafts, and a spring arranged to coöperate with said projection for snapping the plate into its displaying positions and holding same in such positions.

1,390,092. MOTION-TRANSMISSION SYSTEM. WILLIAM CHADBURN, Bournemouth, and WILLIAM ROY CHADBURN, Birkdale, England. Filed Apr. 10, 1918. Serial No. 227,742. 1 Claim. (Cl. 74—7.)



A gear unit comprising a casing having lugs at the back for securing the unit to a stationary part, a removable front cover plate for the casing, the casing having a plurality of inwardly extending bearing bosses, the axial lines of which meet at a common point, certain of the bosses having a common axial line, non-alined shafts to be passed through any two or more of the bosses, and gears having openings corresponding to the openings in the bosses, the gears having hubs adapted when in position to have a bearing contact with the ends of the bosses, said gears being adapted to be secured on the shafts within the casing and each being of a size to insure a driving mesh with any other gear so mounted.

1,390,093. APPARATUS FOR FINISHING VELVET AND OTHER NAP FABRICS. JOSEPH CUCUMEL, Lyon, France. Filed Apr. 8, 1920. Serial No. 372,292. 1 Claim. (Cl. 26—12.)



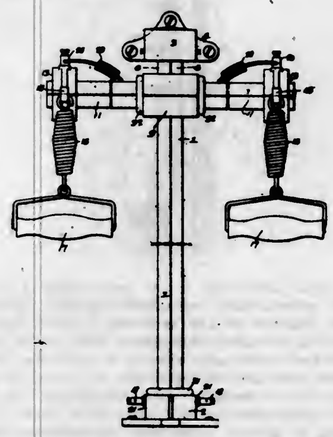
Apparatus for finishing velvet and nap fabrics comprising a frame, a table, a reservoir containing a liquid for the humidification of the fabric, rollers in the reservoir, a card comprising two cylinders provided with steel teeth, means for regulating the pressure of said cylinders, heating means for the nap rising mechanism, a calender arranged after the heating means and also heated thereby, means for regulating the height of said calender, a second card in rear of the calender and rotating in the opposite direction to the first card, a stretching frame above the table, means for regulating the inclination of said stretching frame, and means for guiding the fabric to the table where it is piled up, substantially as described.

1,390,094. AUTOMOBILE-SIGNAL. GEORGE E. DAVIS, Hamburg, N. Y. Filed Apr. 6, 1920. Serial No. 371,633. 1 Claim. (Cl. 177—329.)



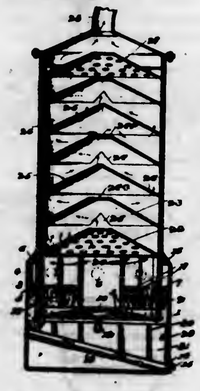
A signal of the class described comprising a casing having an opening in its front face and a door opening in its outer edge, a lens covering the opening in the front face, a door for closing the door opening, said door being hinged to the casing at its lower edge, a signal plate connected at one edge with the inner face of the door and extending at right angles to the door, a reflector carried by the plate, said plate and reflector having registering openings therein, an electric lamp supported by the reflector in alinement with the openings, and means for opening and closing the door, the lamp being in alinement with the opening in the front of the casing when the door is closed.

1,390,095. EXERCISING APPARATUS. MARTIN L. DETTINGER, JOHN A. WESPER, and CARROLL SHEWELL, Philadelphia, Pa. Filed Sept. 23, 1920. Serial No. 413,267. 6 Claims. (Cl. 46—69.)



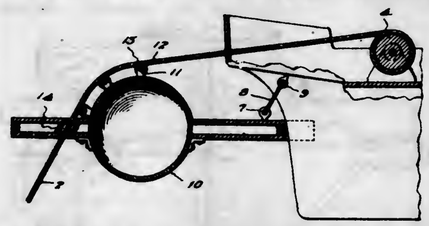
The combination in an exercising apparatus, of a standard; electric wires thereon; an adjustable cross head mounted on the standard and having bars projecting therefrom; clam blocks adjustably mounted on the bars; a spring suspended from each clamp block; a handhold attached to each spring; contacts on the cross head adapted to bear upon the wires of the standard; and connections between the adjustable clamp blocks and the contacts so that when the handholds are grasped an electric current will pass through the body of the person exercising.

1,390,096. AIR-FILTER. VITO DI SANTE, Wichita, Kans. Filed Dec. 4, 1919. Serial No. 342,471. 4 Claims. (Cl. 183—24.)



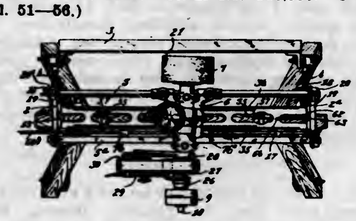
1. In an air filter, a water container, a collecting vessel within said container, said vessel having a concavo-convex bottom formed with perforations, and a cylindrical chamber above said bottom comprising concentric walls and radial partitions, the outer wall of said chamber being extended to rest upon the bottom of said vessel and maintain a space between the chamber and the bottom of the vessel.

1,390,097. CONSTRUCTION FOR RAISING SUNKEN VESSELS. PEDRO DONAIRE, Habana, Cuba. Filed Sept. 11, 1920. Serial No. 409,590. 5 Claims. (Cl. 114—51.)



1. In a means for raising sunken vessels, strong flexible elements secured to the sides at the bow and stern of a sunken vessel and directed at outward angles therefrom, buoyant members anchored at the front thereof in a line with the respective flexible elements, drums carried by said members, to which the respective elements are attached, means for simultaneously revolving the drums at the same rate of speed, and buoyant directing means for the elements hingedly connected to rear or stern portions of the respective buoyant members and having one of their ends in contact with the said stern portions of said buoyant members.

1,390,098. KNIFE-GRINDING MACHINE. JOSEPH DICK, Canton, Ohio, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Dec. 22, 1919. Serial No. 346,520. 3 Claims. (Cl. 51—56.)



1. A grinding machine including a frame, a work holder at one side of the frame, a grinding head mounted on the frame for longitudinal movement parallel with the work holder, spaced connected facing racks mounted for transverse movement on the frame, grinding mechanism mounted on the head including a pinion between the racks, and means or bodily moving the racks transverse with the frame to engage either one of the racks with the pinion.

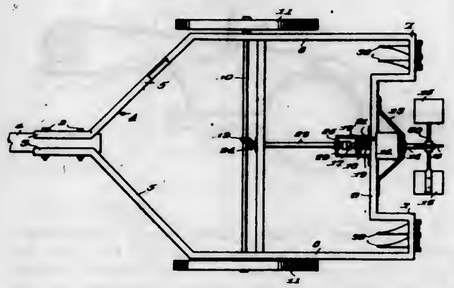
1,390,099. CARPET-SWEEPER. TOM DICKINSON, Accrington, England. Filed Jan. 23, 1920. Serial No. 353,462. 5 Claims. (Cl. 15—60.)



5. The combination with a carpet sweeper case and rotary brush, of means to engage the brush neck to

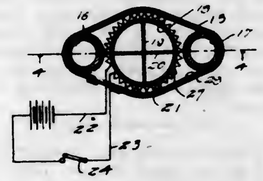
prevent the wrapping of hairs or threads around the brush neck in combination with means to engage the extreme end tufts of the brush to cut and remove threads and hairs therefrom substantially as described.

1,390,100. COTTON-CHOPPER. JOHN LESLIE DOSS, Albany, Ala. Filed Dec. 13, 1920. Serial No. 430,297. 1 Claim. (Cl. 97—46.)



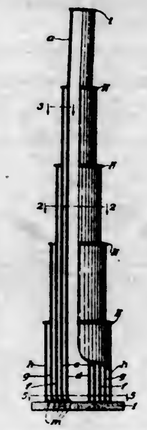
An agricultural apparatus comprising a tongue, a channel frame bar having its channel innermost and also having forward parallel terminal portions between which the tongue is received and secured, rearwardly divergent forward portions, side portions, inner loops at the rear ends of the side portions and a transverse portion interposed between and joining the inner ends of the loops, a transverse bar interposed between and fixed to the side portions of said frame bar, a shaft journaled in the side portions of said frame bar and having ground wheels exterior of the frame and also having a miter gear, a longitudinal shaft having a miter gear intermeshed with said miter gear of the transverse shaft and also having a clutch member, and an additional longitudinal shaft journaled in the said interposed rear portion of the frame bar and having a complementary clutch member, yielding means on the last-mentioned shaft to retain the clutch member thereon in engagement with the first-named clutch member, and means to adjust the third shaft rearwardly and adjustably fix the same.

1,390,101. FUEL-HEATING APPARATUS FOR INTAKE-MANIFOLDS. JOHN W. DURHAM, Wichita, Kans. Filed Oct. 2, 1920. Serial No. 414,198. 3 Claims. (Cl. 219—38.)



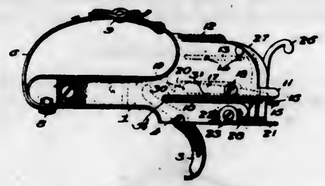
1. A heating attachment to be disposed in the connection between the carbureter and intake manifold of an internal combustion engine, the same comprising an elongated flat casing widened at a middle point and having a relatively large middle opening for the passage of the fuel and relatively small end openings to receive the fastenings to retain the attachment in operative position, and a resistance element within the casing and surrounding the middle opening thereof and included in an electric circuit.

1,390,102. TOWER. ROBERT P. DURHAM, Chicago, Ill. Filed Jan. 5, 1920. Serial No. 349,436. 6 Claims. (Cl. 72—1.)



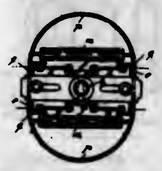
1. A tower comprising in its construction a base, a series of substantially concentric upright continuous walls, all mounted on and extending upward from said base and spaced apart throughout their entire length vertically from said base upward to the tops thereof, said series comprising an inner wall, an outer surrounding wall, an intermediate wall surrounding the inner wall and surrounded by the outer wall, each of said walls being of greater height than the adjacent wall by which it is surrounded, and connecting means forming a rigid connection between a plurality of said walls.

1,390,103. THREAD-KNOTTER. HUGH P. EANES, Ridgeway, Va., assignor to Automatic Machine Company, Inc., Ridgeway, Va., a Corporation of Virginia. Filed Mar. 22, 1919. Serial No. 284,331. 10 Claims. (Cl. 289—2.)



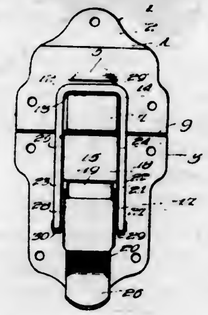
1. A thread-knotter comprising a fixed tying-bill, an edge of which forms a cutter, a hook having a cutting edge which coöperates therewith, and a stripper for removing the knot from the tying-bill and actuating said hook to cause the tying-bill and hook to cut a thread extending therebetween.

1,390,104. MOLD-CORE FOR CONCRETE BODIES. FRITZ EMMRICH, Freiberg, Germany. Filed Feb. 25, 1920. Serial No. 361,120. 1 Claim. (Cl. 25—128.)



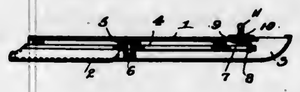
In a mold core for concrete bodies, in combination, two rigid outer parts, conveying rollers therein, and a contractible center part consisting of two mold walls, a H-rail therein and connection-links between said rail and walls, substantially as and for the purpose set forth.

1,390,105. DRAWBOLT. BENJAMIN H. ERWIN, Mishawaka, Ind. Filed Jan. 21, 1921. Serial No. 438,901. 4 Claims. (Cl. 292—247.)



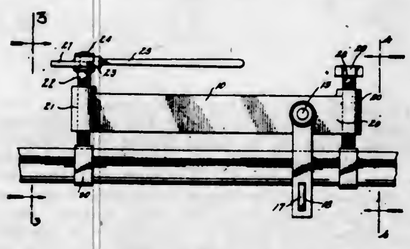
1. A draw bolt consisting of a bolt member and a socket member and means whereby said members may be forcibly drawn together, and means whereby said members may be forced apart, said first member including a pivoted strap, a cam member whereby said strap is actuated, said cam member being spring controlled, said second means consisting of a projection against which said first means may be actuated.

1,390,106. GUIDING DEVICE FOR SLEDS. WILLIAM H. EVANS, Joliet, Ill. Filed May 8, 1920. Serial No. 379,894. 1 Claim. (Cl. 280—16.)



A guiding device for sleds comprising a lever, a bolt detachably and pivotally connecting the lever at a central point to the sled's body, a runner connected to one end of the lever, said lever having a slot formed in the other end, and an operating shaft journaled in the sled's body, and having a crank portion working in said slot.

1,390,107. TOOL. ROBERT FAGAN, Latimer Mines, Pa. Filed Feb. 3, 1920. Serial No. 356,092. 2 Claims. (Cl. 153—38.)



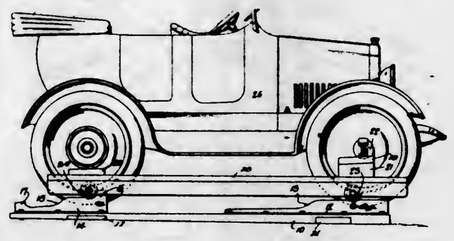
1. In a tool of the character described including a lever having vertically threaded bores in its opposite extremities, a ball pivotally secured to the lever adjacent one extremity thereof, and a jack screw operable in the threaded bore at the opposite extremity thereof, means adapted for interchangeable association with the bore of the first mentioned extremity to receive elements adapted to co-act with the article to which the tool is applied.

1,390,108. TIE AND RAIL-CLAMP. JAMES W. FALK, Little Falls, Minn. Filed Mar. 7, 1921. Serial No. 450,205. 2 Claims. (Cl. 238—31.)



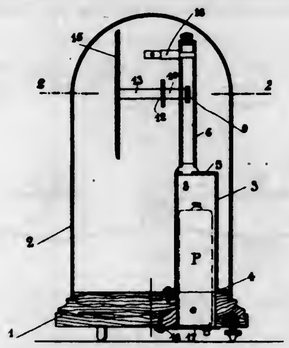
1. A railroad tie comprising spaced reinforced concrete sections, means for detachably connecting the sections together, each section having recesses, a locking element for the rail fitted within the recess, a fixed jaw formed on each reinforcing element and projecting above its respective section, to engage the base of the rail at one side thereof, a movable jaw mounted upon the section and designed to engage the rail at the opposite side thereof, means for engaging the movable jaw within the tie section, and means carried by the reinforcing element for effecting an adjustment of the movable jaw.

1,390,109. LIFT FOR MOTOR-VEHICLES. JOHN H. FANGMANN, Templeton, Iowa. Filed Mar. 6, 1920. Serial No. 363,651. 1 Claim. (Cl. 254—88.)



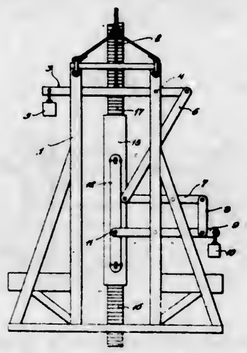
A lifting device comprising parallel longitudinal sills, connections between the sills whereby to maintain them in fixed parallel relation, front and rear track rails fixed longitudinally upon the sills and provided with downwardly and rearwardly extending inclines intermediate their ends and with supporting surfaces in advance of said inclines, upstanding stops on the rear rails at the forward extremities of said supporting surfaces, upstanding stops on said rails spaced rearwardly from the inclines thereon, a carriage having channeled side bars, rollers mounted between the side flanges of said channeled side bars to ride upon the track rails, the rollers and track rails being so spaced and so proportioned that when the forward rollers are respectively at the foot of the adjacent incline the rear rollers will be spaced rearwardly from the inclines on the rear rails and against the rear stops on said rails, cross bars connecting the channeled side bars adjacent the front and rear ends thereof and having downwardly and rearwardly inclined upper surfaces, and an abutment secured centrally upon the forward cross bar to be engaged by a traveling vehicle whereby the progress of the vehicle will cause the carriage to travel up the inclines on the track rails and lift the vehicle.

1,390,110. FRAME FOR ELECTROMAGNETIC CLOCKS. MAURICE PHILIPPE FAVRE-BULLE, Paris, France. Filed Sept. 23, 1920. Serial No. 412,339. 11 Claims. (Cl. 58—52.)



1. A frame for electro-magnetic clocks comprising a pedestal, a support fixed to said pedestal, a battery located within said support and a column on said support adapted to carry the pendulum and clock-work mechanism.

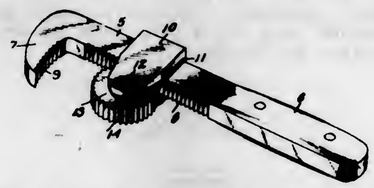
1,390,111. SAFETY DEVICE FOR ELEVATORS. ENOS JUTSAN FETTINGER, Fort Branch, Ind. Filed Sept. 24, 1919. Serial No. 325,992. 1 Claim. (Cl. 187—80.)



A safety device for elevators comprising in combination with a notched elevator guide, an elongated channel-shaped slide block embracing and slidable upon the guide, spaced notched catches located within the channel-shaped slide block and capable of independent sliding movement therein, notches formed in one face of the catches for engagement with the notches of the guide, means located upon the outside of the slide block and connecting the catches, means connecting the catch connecting means with the elevator rope for holding the catches against movement and out of engagement with the guide and cam surfaces located within the guide block in the path of movement of the catches when the latter is released by the breakage of the elevator rope to force said catches into engagement with the guide.

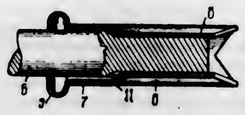
1,390,112. PIPE-WRENCH. JOHN FINDLEY, De Soto, Kans. Filed Apr. 15, 1921. Serial No. 461,466. 1 Claim. (Cl. 81—96.)

A wrench having a body, an enlarged handle thereon, an integral jaw projecting at an angle from the body and having a roughened face, a bracket slidably embracing the body provided with a flat face and rounded off ends and bearing against the back of the body, a rotary member carried by said bracket having a roughened face to



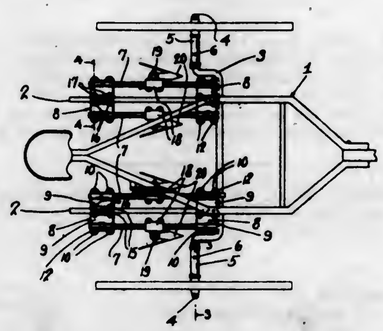
form the opposing jaw of the wrench, the roughened face of said member co-acting with the roughened face on the body of the wrench to lock the movable jaw in adjusted position, substantially as set forth.

1,390,113. CURTAIN-SUPPORT. KINGSTON FORBES, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a Corporation of Delaware. Filed Jan. 30, 1920. Serial No. 355,021. 4 Claims. (Cl. 296—139.)



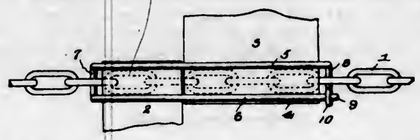
1. In a support the combination of a sheet metal socket member provided with one or more inwardly extending depressions forming internal longitudinal ribs and a rod member provided with one or more grooves in which said ribs are adapted to seat and with shoulders at the end of said grooves, said shoulders adapted to limit the entry of said rod member into said socket.

1,390,114. COTTON-BLOCKING MACHINE. BARNIE S. FORD, Coleman, Tex. Filed Oct. 19, 1920. Serial No. 417,890. 1 Claim. (Cl. 97—48.)



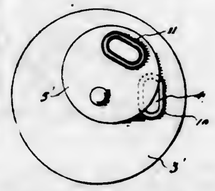
In a means for converting a cultivator into a cotton checking machine, the combination with such cultivator; of spaced clamps on the beams thereof, each clamp including two mating sections depressed at the confronting ends thereof to receive the cultivator beams, adjustable securing means for the sections, auxiliary beams supported at the outer ends of the clamp sections, binding means between the clamp sections and said auxiliary beams, a longitudinally adjustable clamp on each of the auxiliary beams, and a sweep plow having its shank adjustably secured on each of the last mentioned clamps.

1,390,115. BACK AND BELLY BAND HOLDER. JOHN H. FORWE, Delwood, Ill. Filed Aug. 13, 1920. Serial No. 403,337. 1 Claim. (Cl. 54—1.)



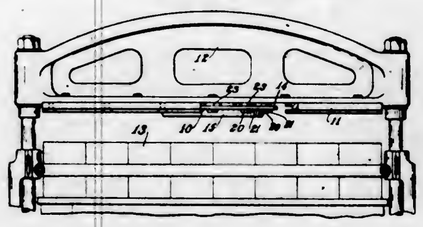
A back and belly band consisting of a single length of wire bent to provide parallel limbs for flat contact with the back and belly band and loops at the ends of the limbs for engagement with the links of a chain, one of the limbs having one end formed into a hook for snap engagement with a hook formed on one of the loops.

1,390,116. BOX. JOHN B. FOX, Chicago, Ill. Filed Oct. 18, 1920. Serial No. 417,564. 1 Claim. (Cl. 229—7.)



A box for containing and dispensing powders comprising a body open at each end, a bottom therefor comprising an annular flange frictionally gripping the outer surface of said body, a top comprising a disk and an annular flange formed thereabout frictionally gripping the outer surface of said body, said top having an opening therein, a closure disk for said opening, and a paper fastener pivotally connecting said closure disk and top, said top being outstruck about said opening, said closure disk being provided with outstruck portion for receiving the outstruck portion of said top.

1,390,117. CUTTING-DIE. WALTER B. FREEMAN, Cuyahoga Falls, Ohio, assignor to B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Mar. 22, 1920. Serial No. 367,606. 10 Claims. (Cl. 164—31.)



1. A die comprising a holder provided with a series of clamp guides, a series of clamps mounted on said guides and a cutter detachably mounted in said clamps and abutting said holder between said clamps.

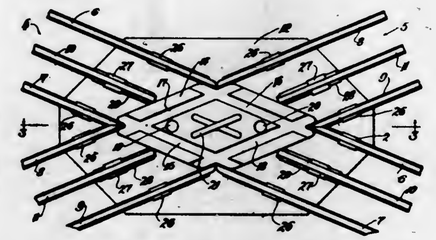
1,390,118. INSULATOR. PETER CHRISTIAN CARL FRIDRICHAEN, Wheeling, W. Va. Filed June 16, 1919. Serial No. 304,521. 2 Claims. (Cl. 173—314.)

1. An insulator including cylindrical base and cap members, of uniform diameter throughout, said base member having wire receiving grooves therein, the upstanding portions of the base member lying outwardly of the grooves being of convex form, a projection defined between the grooves, said cap member having a central recess to accommodate said projection, a portion of said cap member lying outwardly of the recess forming an annular rib, said



rib being convex in cross section whereby to present a convex surface to the wire or wires disposed in the grooves and to the convex upstanding portions of the base member, and a series of radiating ribs formed by the annular rib and curved in conformity therewith to prevent longitudinal displacement of the wires disposed in the grooves.

1,390,119. CROSSOVER FOR TOY RAILWAYS. ALBIN FROHNE, Chicago, Ill., assignor to American Flyer Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed May 31, 1921. Serial No. 473,742. 5 Claims. (Cl. 191—29.)
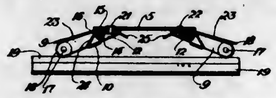


4. A cross-over for a toy electric railway including in combination a base plate, a pair of intersecting tracks having their end portions secured to said base plate, a block of insulating material in the shape of a parallelogram, recesses in the corners of said block and for the accommodation of the end portions of the respective track rails, means for securing said block to the base plate, there being grooves in the top surface of said block lying in substantial alinement with the inside edges of the respective track rails and for the accommodation of the wheel flanges of the car, third rail sections extending longitudinally of the respective track sections and having their inner ends lying adjacent to the block of insulating material and supported by and insulated from the base plate, a conducting section located in the central portion of the block and having its top surface exposed for contact by a third rail contactor, and suitable wires joining together the end portions of all of the third rail sections and said conducting section, substantially as described.

1,390,120. TROLLEY-CONTACTOR. ALBIN FROHNE, Chicago, Ill., assignor to American Flyer Manufacturing Co., Chicago, Ill., a Corporation of Illinois. Filed May 31, 1921. Serial No. 473,743. 4 Claims. (Cl. 191—49.)

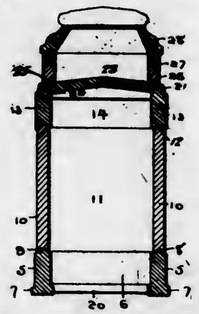
4. A trolley contactor for the purpose specified comprising a suitable support, a pair of outwardly extending separated lugs in conjunction therewith, a bifurcated member having a pair of longitudinally extending separated arms, a cross connecting bar, and a longitudinally extending shoe adapted to engage said support to thereby limit the swinging movement of said bifurcated member, a

pivotal connection between the bifurcations and the lugs aforesaid, a roller pivotally mounted between the ends of the arms of the bifurcated member, and a strip of resilient, electrically conducting material rigidly secured



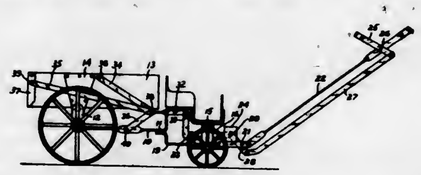
to said support and having a finger spring pressed against the top surface of said roller, and tending to swing the bifurcated member to carry its shoe against said support, substantially as described.

1,390,121. BURIAL-VAULT. PETER I. FROST, Cedarhurst, N. Y. Filed May 15, 1919. Serial No. 297,382. 1 Claim. (Cl. 72—7.)



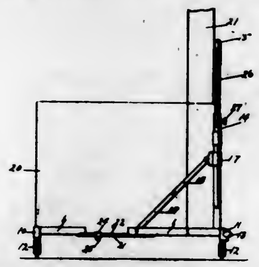
In a vault of the character described comprising a substantially rectangular base having vertical sides and end portions being enlarged at their lower edges, ribs formed on the top edges of the sides of the said base, vertical, side body walls having top ribs and bottom grooves interlocking with the ribs of the sides of said base, end walls having vertical ribs interlocking in grooves formed in the ends of the side body walls, each of the side body walls being formed of two complementary sections and having substantially Z-shaped, overlapping, interlocking meeting edges, intermediate of the wall, enlarged side and end members having bottom grooves therein superposed and interlocked with the top ribs of the body walls, said enlarged members having tapered, top ribs confining shoulders, a sectional, reinforced closure plate having spaced recesses along its sides and ends seated on said shoulders, supplemental top members having integrally formed lugs seated within the said recesses, and retaining the closure plate in position on said enlarged members, and a memorial top structure seated on and interlocked with the supplemental top members.

1,390,122. TOY DUMP CART OR WAGON. CHARLES E. GILBERT and ANDROV H. CARLSON, Bridgeport, Conn. Filed Apr. 8, 1920. Serial No. 372,140. 4 Claims. (Cl. 298—19.)



1. A toy dump cart or wagon, comprising a running gear having a body and a handle pivoted thereto, a tail gate pivoted to the body, a dumping lever pivoted to the handle, toggle arms, and means connecting the toggle arms with the dumping lever, said connecting means including bell crank levers adjacent arms of which are loosely connected so that said levers may have angular movement with respect to each other, whereby said dumping lever may be actuated to tilt said body and throw said tail gate on its pivot regardless of the relative angular positions of said bell crank levers.

1,390,123. TRUCK. LEON L. GILKEY, Detroit, Mich., and CHESTER H. BRASELTON, New York, N. Y. Filed June 26, 1916. Serial No. 105,932. Renewed Feb. 2, 1921. Serial No. 442,010. 9 Claims. (Cl. 280—61.)



1. In a device of the class described, the combination of a trunk supporting platform provided with upright flanges for positioning the trunk, two of said flanges being disposed a short distance in front of the rear corners of said platform, casters supporting said platform and mounted in the corners thereof, and a cover supporting frame pivotally connected to the rear corners of said platform.

1,390,124. PRESSING-PAD. CHARLES M. GOUGH, East St. Louis, Ill., assignor of one-half to John Kittinger, East St. Louis, Ill. Filed June 15, 1920. Serial No. 389,127. 1 Claim. (Cl. 68—9.)



A pressing pad composed of upper and lower layers of copper mesh wire with coiled brass springs between them and fixed thereto, laterally spaced reinforcing rods secured to and extending longitudinally of the bottom of the pad, a plurality of pliable metal attaching straps arranged transversely of said bottom under said rods with their ends projecting beyond the side edges of the pad and adapted to be bent around a steam chest, similar straps arranged longitudinally of the ends of the pad and secured to two of said transverse straps between said rods, a fabric covering arranged over said top, sides and ends of the pad, a layer of fibrous material interposed between it and the upper mesh wire, the bottom affording a substantially unobstructed passage for the steam to the interior of the pad.

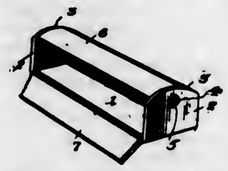
1,390,125. CIGAR-BOX-LID HOLDER AND DISPLAY-TICKET. CHARLES SMITH GUNTER, Spruce Pine, N. C. Filed Oct. 11, 1919. Serial No. 329,909. Renewed July 30, 1921. Serial No. 488,676. 1 Claim. (Cl. 40—7.)

A cigar box attachment comprising a substantially U-shaped member formed of resilient wire having arms of unequal length and slightly converging, said arms being engageable against the inner side of a cigar box wall and underside of the lid when the lid is swung entirely open into engagement with the box wall upon which it is



hinged, the bight portion of said member being disposed over the hinged edges of the box-wall and the lid, in combination with a tag disposable flat against said edges and provided with spaced holes for the passage of said arms.

1,390,126. PUTTYING-TOOL. CHARLES HALASKA, Jr., Milwaukee, Wis. Filed Jan. 25, 1921. Serial No. 439,852. 4 Claims. (Cl. 18—3.5.)



1. As a new article of manufacture, a glazier's tool comprising a body having upturned ends, a handle secured to said upturned ends and a smoothing blade extending longitudinally along one edge of said body at an acute angle to the body.

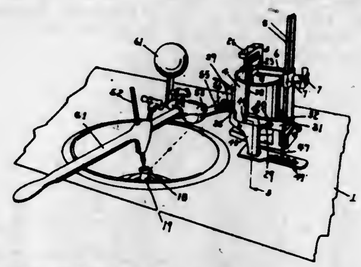
1,390,127. CLOCK AND CALL-BELL. EUGENE ISAAC HALSTEAD, Plainville, Wis. Filed Aug. 18, 1919. Serial No. 318,212. 1 Claim. (Cl. 116—155.)



A call attachment for alarm clocks, comprising a U-shaped member for insertion between an alarm clock and its bell to connect the bell to the clock, a tubular stud projecting from said member for insertion into the engaged bell, a ring carrying member engaging the stud to secure the bell on the member, a lever fulcrumed in the member and having an extension at its pivot end, said lever constituting a striker, and a plunger slidably mounted in the tubular stud and engaging the extension of the lever to operate said lever as a striker.

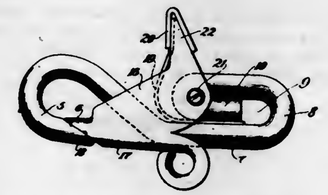
1,390,128. ABRADANT-SUPPLYING APPARATUS. WALTER G. HASTINGS, Battle Creek, Mich. Filed Apr. 12, 1920. Serial No. 373,119. 12 Claims. (Cl. 51—263.)

1. In a structure of the class described, the combination of a driving spindle provided with a head, a circular spiral inwardly beveled actuating cam on said spindle head, an abradant receptacle mounted on said head within said cam, a frame member depending into said receptacle, an agitator on said frame member, a pump mounted on said frame member, a pump actuating lever pivoted on said frame member, an actuating spring for said pump lever, a pivotally mounted actuating member beveled to coact with said actuating cam, a link connecting said actuating member to said pump lever, a plurality of timing cams, driving connections therefor to said driving spindle, a rock



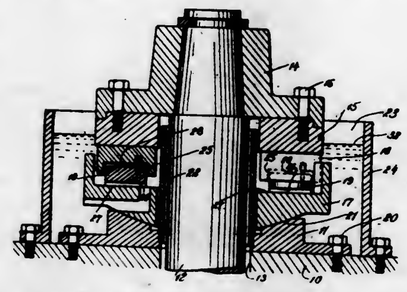
shaft provided with an adjustable arm co-acting with said timing cams, a control arm on said rock shaft coacting with said actuating member to move it to position to coact with said actuating cam, and a spring connecting said actuating member and control arm so that when the actuating member is released from the actuating cam, it is returned to its inoperative position.

1,390,129. SNAP-HOOK. EMIL C. HESSE, Chicago, Ill. Filed June 13, 1921. Serial No. 477,123. 4 Claims. (Cl. 24—233.)



1. A hook of the kind described, comprising a body that is bent upon itself to provide two parallel sections, a spring clamped between said sections and held thereby, a rocker frame engaged by the spring and having spaced walls on either side of the hook body pivotally connected thereto, the hook body having at one end a hook adapted to be closed by the frame under the tension of the spring, substantially as described.

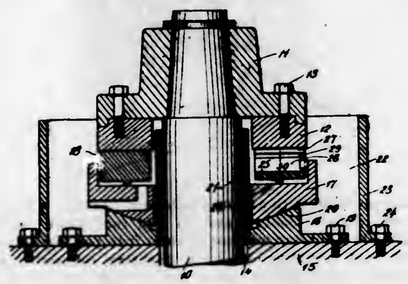
1,390,130. BEARING. HARRY A. S. HOWARTH, Pittsburgh, Pa., assignor to Albert Kingsbury, Pittsburgh, Pa. Filed Nov. 17, 1917. Serial No. 202,446. 28 Claims. (Cl. 64—25.)



1. A thrust bearing comprising a base, a bearing member, and an interposed pivot block constructed to permit

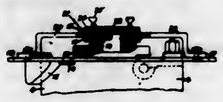
tilting movement in one plane between the base and the block and tilting movement in a cross plane between the block and the bearing member.

1,390,131. BEARING. HARRY A. S. HOWARTH, Pittsburgh, Pa., assignor to Albert Kingsbury, Pittsburgh, Pa. Filed Nov. 14, 1917. Serial No. 201,915. 29 Claims. (Cl. 64—25.)



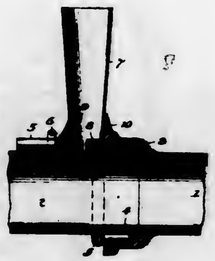
1. A thrust bearing member having a thrust surface and a yielding portion adapted to establish an oil film on the thrust surface, and means for supporting said member to prevent tilting thereof circumferentially of the axis of the bearing.

1,390,132. CONTINUOUS WIRE-DRAWING MACHINERY. MARK HOWARTH, Padgate, Warrington, England. Filed July 14, 1920. Serial No. 396,053. 6 Claims. (Cl. 205—14.)



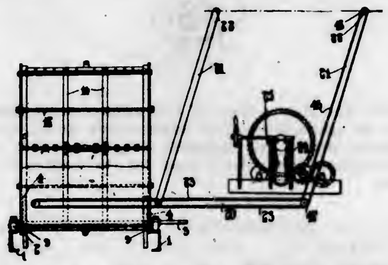
1. In wire drawing machinery, a drawing block, feeding off means in connection therewith capable of relative motion with same, and means for securing the feeding off means in adjustable frictional relation to the block, with said feeding off means adapted to be operated upon by the wire in passing from one block to another; substantially as set forth.

1,390,133. GATE FOR POURING PIPE-JOINTS. ROBERT B. HOWELL, Omaha, Nebr., and CHARLES A. HOWELL, Ann Arbor, Mich. Filed May 7, 1920. Serial No. 379,655. 7 Claims. (Cl. 25—127.)



1. As a new article of manufacture, a gate for use in producing poured pipe joints, formed of paper and having its lower end cut away or removed at one side.

1,390,134. MOLDING OF CONCRETE PRODUCTS. WALTER REGINALD HUME, Adelaide, South Australia, Australia, assignor to Hume Pipe & Concrete Construction Company, Limited, London, England. Filed Feb. 12, 1920. Serial No. 358,204. 17 Claims. (Cl. 25—30.)



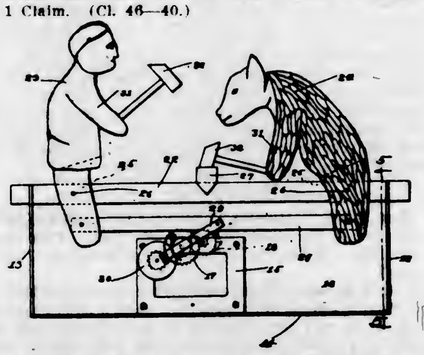
1. A concrete molding machine including a cylindrical molding casing adapted to contain a considerable body of concrete and comprising a plurality of sections, retaining rings situated at each end of the molding casing with recesses for receiving said sections and supporting rollers adapted to drive frictionally the cylindrical casing by contact with said retaining rings.

1,390,135. BATHING-SUIT. CARL C. JANTZEN, Portland, Oreg., assignor to Jantzen Knitting Mills, a Corporation of Oregon. Filed Nov. 12, 1920. Serial No. 423,587. 1 Claim. (Cl. 2—144.)



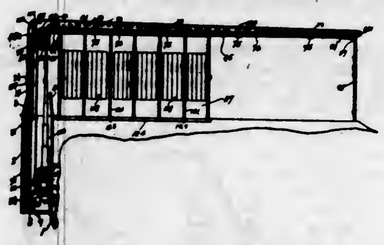
In a one piece bathing garment of the class described, a body, a trunk portion attached thereto, the rear waist line of said trunk portion being cut along a curved line and stitched to the body, whereby the rear of the trunk portion is longer than the front thereof, a substantially triangular gusset, twice the length at the rear of the garment than at the front thereof stitched to the trunk portion to allow for binding in the seat and back of the garment due to distortion of the body.

1,390,136. AUTOMATIC TOY. JOHN KING KAHL, St. Louis, Mo. Filed Nov. 10, 1919. Serial No. 336,842. 1 Claim. (Cl. 46—40.)



In a device of the character described, a casing, said casing including side walls, pivot pins connecting the side walls adjacent to the ends thereof, a cross bar, end walls forming a part of the casing and having connection with the cross bar, said pivot pins extending through the cross bar, figure members, said figure members having bifurcated portions adapted to embrace portions of the cross bar, said pivot pins passing through the bifurcated portions of the figure members, a rod connecting the lower extremities of the bifurcated portions adjacent to the lower ends thereof, a motor positioned within the casing, a connecting rod operated by the motor and connected to the rod for imparting reciprocating motion thereto, for operating the figure members.

1,390,137. AUTOMOBILE-COVER. PERCIVAL FAULKNER KING, Vancouver, British Columbia, Canada. Filed Dec. 28, 1918. Serial No. 268,729. 11 Claims. (Cl. 296—117.)



4. The combination with a vehicle, of a normally collapsed vertically extensible frame carried at the rear of the vehicle, a normally collapsed horizontally extensible frame carried by said first frame, a power shaft, means for extending said first frame operable from said power shaft, and means for extending said second frame arranged to be operated from said power shaft upon the full extension of said first frame.

1,390,138. BISCUIT AND DOUGHNUT CUTTER. GRACE E. KIRKPATRICK, Leadwood, Mo. Filed Mar. 1, 1920. Serial No. 362,314. 2 Claims. (Cl. 107—51.)



1. A convertible cutter of the type indicated consisting of a hollow trunco-conical tube of sheet material provided in its side wall adjacent to the reduced extremity thereof with a lateral opening, the tube being provided with cutting edges at both the large and small ends.

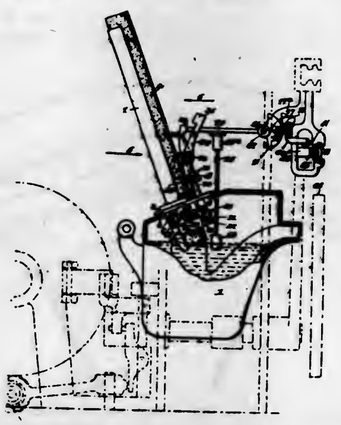
1,390,139. PRIMING-CUP. CHARLES H. KNOBBS, Philadelphia, Pa. Filed Sept. 19, 1919. Serial No. 324,837. 1 Claim. (Cl. 123—187.5.)

A priming cup comprising a casing formed at its bottom with a reduced extension threaded for engagement within a threaded hole in the cylinder head of an engine, said extension being formed with a bore leading into a valve seat at its juncture with the casing, a threaded extension at the top of the casing having a central threaded opening, and an inlet port and a small passage formed in said last named extension near the side thereof, a cap upon



said upper extension and having a handle whereby it may be rotated, said cap having a port and a passage adapted to register with the first named port and passage, a valve normally closing said seat and having a stem threaded through the threaded opening in the upper extension of the casing and passing revolubly through the cap, and a handle at the upper end of said stem.

1,390,140. METAL-FEEDER FOR LINOTYPE AND SIMILAR MACHINES. JOHN HENRY W. KNOOP, Highland Park, Pa., assignor to Knoop Metal Feeder Company, Wilmington, Del., a Corporation of Delaware. Filed Nov. 10, 1919. Serial No. 336,994. 11 Claims. (Cl. 22—80.)

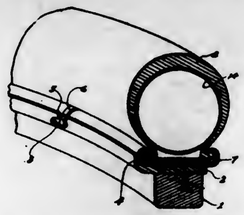


1. The combination in linotype and similar machines, of means for operating the driving mechanism; a lever for preventing the operation of the said mechanism and stopping the machine; a metal pot for molten metal; means for feeding pig metal into the pot; and a float in the pot, said float actuating the means for stopping the machine when the metal in the pot is above or below the normal level.

1,390,141. AUTOMOBILE-WHEEL RIM. AUGUST J. KOHANSKI, Chicago, Ill. Filed Oct. 23, 1920. Serial No. 419,014. 5 Claims. (Cl. 301—17.)
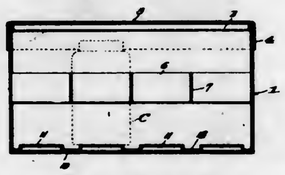
1. In a wheel rim structure, the combination of a wheel rim, a demountable tire carrying rim adapted to

be moved laterally upon the wheel rim, lugs on the wheel rim, and straps carried by said demountable tire



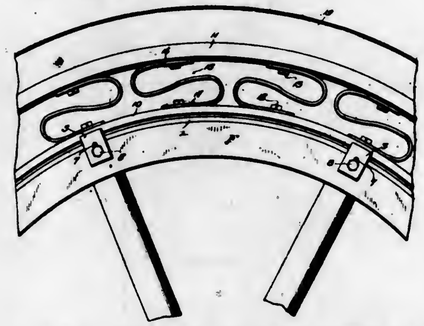
carrying rim for engagement with said lugs to lock the rims against relative lateral movement.

1,390,142. CANNING APPARATUS. EMIL W. B. KUGEL, Benedict, Nebr. Filed Mar. 18, 1921. Serial No. 453,506. 5 Claims. (Cl. 53—1.)



1. In a cooker of the class described, a vessel, a cellular structure mounted intermediate the top and bottom of said vessel, a metal strip carried by the bottom of the vessel and having an upstruck portion arranged below one of the cells of said structure to form a container support and spacer.

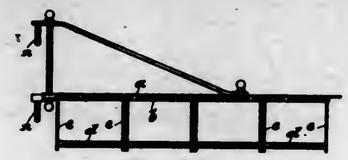
1,390,143. SPRING-TIRE. ARTHUR L. LASNIER, Bristol, Conn. Filed Jan. 29, 1921. Serial No. 441,041. 1 Claim. (Cl. 152—32.)



A resilient vehicle tire composed of radially spaced wheel rims connected by a series of springs, each spring being composed of a metal strip bent to form parallel ovate loops of uniform size, arranged to open in opposite directions with the terminals thereof bowed inwardly and provided at the crown of said bowed portions with fastener receiving apertures, whereby said ends operate as lock washers when forced into engagement with the rim.

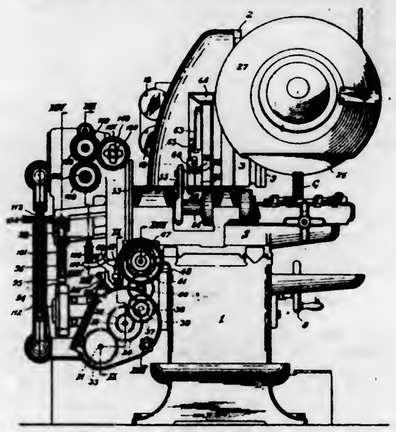
1,390,144. MEANS FOR SUPPORTING GARMENT-HANGERS. JOHN ALGERNON LAUNDER, Newcastle-upon-Tyne, England, assignor to J. A. Launder & Company Limited, Newcastle-upon-Tyne, England. Filed Sept. 29, 1919. Serial No. 327,212. 1 Claim. (Cl. 211—16.)

In means for supporting garment hangers, the combination of a supporting rail having an open-ended slot formed by inturned depending portions, and a plurality of interchangeable and removable sliding carriers each comprising a pair of end plates perpendicular to said rail



and having lateral recesses at the top to receive the inturned portions of said rail, and a rod extending between said end plates parallel with and directly below said rail for supporting the garment hangers.

1,390,145. GEAR-GRINDER. ERNEST J. LESS, Cleveland, Ohio, assignor to Hosea T. Bradner, Cleveland, Ohio. Filed Sept. 2, 1919. Serial No. 321,010. 34 Claims. (Cl. 51—52.)



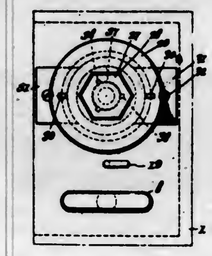
1. In apparatus of the class described, the combination of a frame, a slide movable thereon, a spindle rotatably mounted upon said slide, means for rotating said spindle, a segment arranged to rotate with said spindle, and flexible means connecting said frame and segment and adapted to effect the bodily movement of said spindle.

1,390,146. IMPULSE-COUPLING. ALBION D. T. LIBBY, East Orange, N. J., assignor to Splitdorf Electrical Company, Newark, N. J. Filed Oct. 22, 1920. Serial No. 418,851. 6 Claims. (Cl. 123—149.)



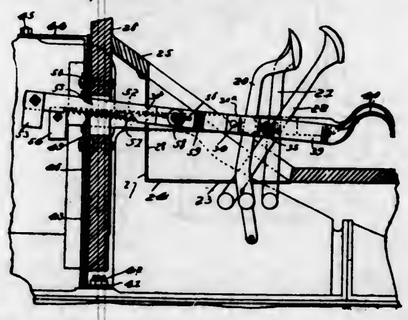
1. An impulse coupling comprising a driving and a driven member, a post in one of said members, a rod slidable in said post, heads on said rod, a bumper spring interposed between the post and one of said heads, a pin on said other member engaging said last mentioned head, and a compression spring abutting said pin and the other of said heads.

1,390,147. LOCK. JULES MACÉ, Grasse, France. Filed Nov. 4, 1920. Serial No. 421,751. 7 Claims. (Cl. 70—75.)



1. In combination, a movable locking bolt, a latch adapted to hold said bolt against movement, rotatable tumblers supported relatively to said latch whereby to prevent the latter from movement, said tumblers provided with slots therein adapted to be brought into alinement to receive a portion of the latch to permit movement thereof, said tumblers having cutaway central portions, a key fitted through the cutaway central portions of the tumblers, coöperating projections on the key and tumblers adapted to be brought into engagement, said projections on the tumblers being adjustable angularly with respect to the projections on the key, substantially as described.

1,390,148. CLUTCH CONTROL FOR AUTOMOBILES. FAYE S. MAYNARD, Ararat, Pa. Filed Sept. 25, 1919. Serial No. 326,147. 3 Claims. (Cl. 74—81.)



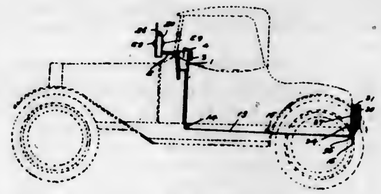
1. A locking device for the clutch pedal of an automobile having a latch bar pivotally mounted at an intermediate point upon said pedal and provided at one end with a heel plate within reach of the foot positioned on the pedal, said latch bar having ratchet teeth at its lower edge and a notch at its upper edge, and detents for engagement respectively by said teeth and said notch for the purpose specified.

1,390,149. SAFETY STARTING DEVICE FOR INTERNAL-COMBUSTION ENGINES. ROBERT A. MILLER-ARGUE, Essendon, Melbourne, Victoria, Australia. Filed Oct. 18, 1920. Serial No. 417,670. 5 Claims. (Cl. 123—185.)



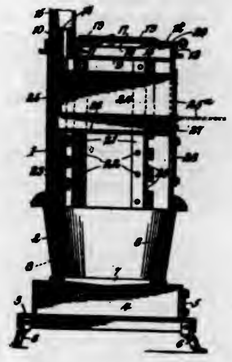
1. In a safety starting or cranking device for internal combustion engines, the combination of a starting handle, a clutch member carried thereby, an inclined cam face or faces carried by the starting handle or its clutch member and a declutching element comprising a hinged cavity actuated pawl provided with a step or shoulder having an inclined face adapted to coöperate with the inclined cam face of the starting handle to disengage said clutch member from the engine shaft when the latter is rotated in a reverse direction, for the purpose specified.

1,390,150. AUTOMOBILE-SIGNAL. LAWRENCE J. MILLER and WARREN W. CHRISTIAN, St. Louis, Mo. Filed May 20, 1920. Serial No. 382,855. 6 Claims. (Cl. 116—51.)



1. An automobile signal comprising a shaft journaled for rotation, said shaft having a squared end portion, a signal, and members carried by the signal and arranged in cruciform relation with respect to each other and spaced from each other thereby leaving a socket which receives the forward portion of the shaft.

1,390,151. STOVE. CARL J. MITISKA, Howell, Ind. Filed May 21, 1920. Serial No. 383,278. 3 Claims. (Cl. 126—58.)

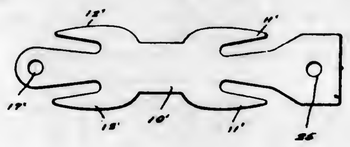


1. A stove comprising a fire pot, a drum mounted above the fire pot, an air chamber provided at the top of the drum, damper-controlled means connecting the air chamber with the exterior of the stove so as to supply said chamber with fresh air, and vertically disposed conduits arranged around the interior walls of the drum and communicating at their upper ends with the air chamber and at their lower ends with the fire pot, said conduits being provided with a plurality of air outlets in their side walls located at different points of the conduits.

1,390,152. LINE-HOLDER. NELSON B. MILTNER, Perth Amboy, N. J. Filed Apr. 11, 1921. Serial No. 460,325. 3 Claims. (Cl. 24—129.)

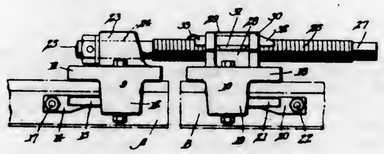
2. A line attachment comprising a plate adapted to be secured to one end of the line, one end of the plate being bifurcated defining separate portions, a spool journaled

between said separated portions and over which the line is adapted to be trained, and spaced fingers projecting



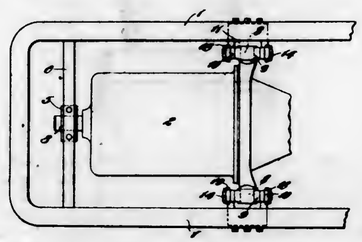
from the sides of the plate and about which the end of the line is adapted to be wrapped for the purpose specified.

1,390,153. RAIL-JOINT CLOSER. IRA NAYLOR and JAMES C. TUCKER, Braxton, W. Va. Filed Jan. 31, 1921. Serial No. 441,379. 4 Claims. (Cl. 254—43.)



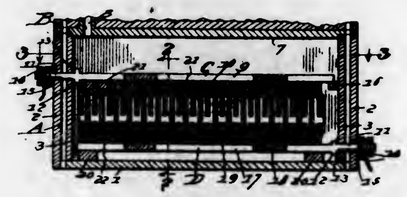
1. A device of the character described comprising a pair of members designed to be secured upon the end portions of meeting rails, a bracket on each member, one bracket being formed with a smooth bore and the other being formed with a split nut capable of being opened, and a screw having one end revolubly engaged through said smooth bore and having its other end portion threadedly engaged within said split nut.

1,390,154. MOTOR SUSPENSION. BOUDEWIJN B. NEUTEBOOM, Detroit, Mich., assignor to The Militor Corporation, New York, N. Y., a Corporation of New York. Filed Aug. 19, 1918. Serial No. 250,441. 6 Claims. (Cl. 180—64.)



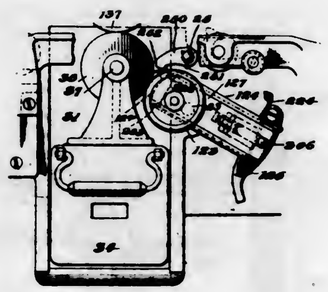
1. Means designed to yieldingly connect two elements, one consisting of a motor structure and the other a vehicle frame and comprising a bearing block having a transverse cylindrical bore within which is journaled a correspondingly shaped projection of one of said elements, said block having cylindrical recesses in its ends, and a member carried by the other element and having opposed branches between which the bearing block fits, and means extending through the branches into the recesses of the bearing block thereby to support it for oscillation on an axis substantially at right angles to that of the projection.

1,390,155. ELECTRIC ACCUMULATOR. ALBERT NODON, Bordeaux, France. Filed Nov. 9, 1918. Serial No. 261,900. 6 Claims. (Cl. 204—29.)



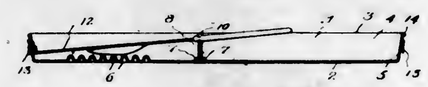
1. An electric accumulator embodying positive plates and a depolarizing oxid applied to but restricted to a definite area on the plates.

1,390,156. POSTAGE-METER AND MAIL-MARKING MACHINE. JACOB W. OGDEN, Stamford, Conn., assignor to Pitney-Bowes Export Corporation, Stamford, Conn., a Corporation of Delaware. Filed Nov. 22, 1920. Serial No. 425,776. 25 Claims. (Cl. 101—352.)



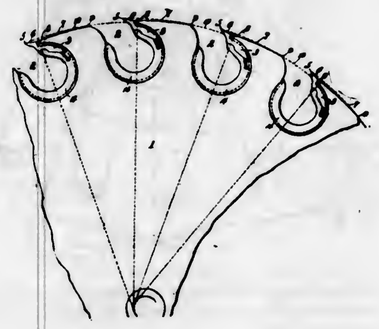
1. In a machine of the character specified, a removable printer; an inker; an adjustable support for said inker whereby it may be moved into position to contact with the printer or out of position to contact therewith; disconnectible means to hold the inker out of operative position; and means whereby the inker can not be moved into position to contact the printer until the printer is properly positioned in the machine; and means whereby removal of the printer from operative position is prevented until the inker is moved out of operative position.

1,390,157. TRAY. GEORGE E. OHDE, Milwaukee, Wis. Filed Apr. 22, 1921. Serial No. 463,738. 2 Claims. (Cl. 65—65.)



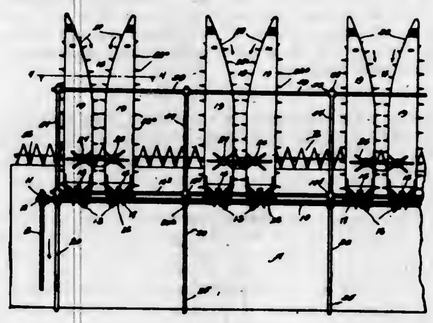
1. A tray for supporting knives, forks and spoons stamped to provide a bottom provided with up standing ribs and up standing side walls, a supporting plate held in an upright position to support the handles of said knives, forks and spoons, and a flange secured to the tray to support the blade portion of the knives.

1,390,158. ICE-SAW. BYRON B. PHILLIPS, Hudson, N. Y., assignor to Gifford-Wood Co., Hudson, N. Y. Filed June 17, 1918. Serial No. 240,362. 4 Claims. (Cl. 262—33.)



1. A circular saw for cutting ice, provided with a circular series of cutting teeth each having a throat and an abutment back of and spaced from the tooth and projecting outwardly from the body of the saw and adapted to bear against the ice at the forward edge of the saw kerf.

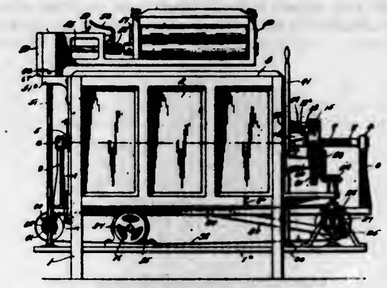
1,390,159. ATTACHMENT FOR BROADCAST HEADERS. FILMORE M. PAICE, Floydada, Tex. Filed July 28, 1920. Serial No. 399,584. 5 Claims. (Cl. 56—106.)



1. The combination with a broad cast header, of a plurality of elevators detachably connected therewith and adjustable toward and from one another whereby to accommodate rows having varying distances between them, a shaft having operative connection with the driving mechanism of the header, and means adjustable longitudinally upon said shaft and operatively connected with the elevators whereby to drive the same.

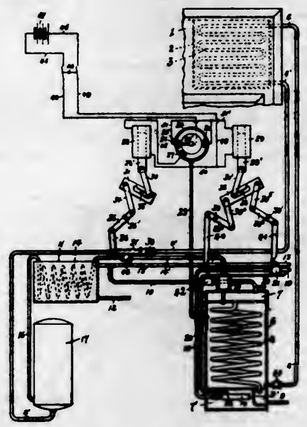
1,390,160. WASHING-MACHINE. LOUIS T. PRICE, Portland, Oreg. Filed Nov. 17, 1920. Serial No. 424,706. 4 Claims. (Cl. 68—18.)

1. In a washing machine, a supporting structure, a closed fluid receptacle mounted therein, a clothes container mounted in said receptacle, journals at the ends of said container extending through opposed walls of said receptacle, a carrier mounted to reciprocate longitudinally relatively to said receptacle and having connections between it and said journals whereby the actuation of said



carrier operates to reciprocate said container, and means for simultaneously operating the carrier and rotating said container.

1,390,161. REFRIGERATING-MACHINE. WALTER C. RADDANT, Pittsburgh, Pa., assignor, by direct and mesne assignments, to Domestic Refrigerating Co., Coraopolis, Pa. Filed Apr. 4, 1918. Serial No. 226,620. 2 Claims. (Cl. 62—5.)

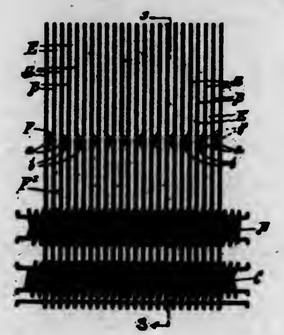


1. In a refrigerating apparatus, a container for a solution of calcium chlorid, a container for a solution of aqua ammonia and having a conductor coil extending therethrough, a condenser including a circulating coil communicating with the aqua ammonia container, a water conductor leading into and from the condenser, a branch between the water conductor and the container for the aqua ammonia externally of the solution therein, a controlling valve within said branch, means for supplying heat to the aqua ammonia container and having a controlling valve, a storage tank communicating with the condenser, a conductor medium extending into the calcium chlorid container, a delivery conductor between the storage tank and the conductor medium of the calcium chlorid container and having a controlling valve, a return conductor between the conductor of the calcium chlorid container and the aqua ammonia container, and means controlled by the pressure generated by heat in the aqua ammonia container for actuating the controlling valve.

1,390,162. LEASE COMB AND REED. THOMAS K. REA, Charlotte, N. C. Filed Apr. 5, 1921. Serial No. 458,798. 4 Claims. (Cl. 28—30.)

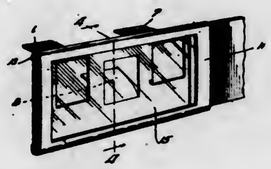
1. In a lease comb or reed, the combination with a series of dents formed of resilient metal strips each hav-

ing their opposite sides bent inward intermediate of their length to form a groove with rounded lips on either side thereof, of a second series of dents each provided with a prong adapted to project into the groove of the opposite



dent, the said first and second series of dents being grouped in pairs with an unobstructed passage for the yarn between each of said pairs on the reverse side of the dents from said tongues and lips, respectively.

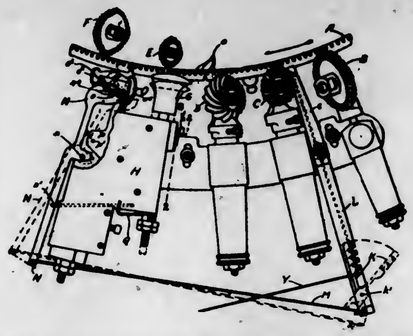
1,390,163. DISPLAY-CLIP. FRANK W. RICHEY, Chicago, Ill., assignor to Wilhelmina F. Richey, Chicago, Ill. Filed Feb. 7, 1921. Serial No. 443,064. 2 Claims. (Cl. 40—11.)



1. As a new article of manufacture, a display clip of the class described comprising a single rectangular piece of sheet metal having its upper and lower edges folded over adjacent to one face for the provision of card retaining grooves, and having two tongues struck rearwardly from the material of the clip adjacent to its upper edge, and a central tongue struck rearwardly from the material of the clip adjacent to its lower edge and at a point between the two tongues first mentioned, and a window slide having its upper and lower edges flanged rearwardly and toward each other and of a size to embrace the upper and lower portions of the clip between them, said window slide having a central perforation, and a suitable transparent window in the slide and behind the perforation, substantially as described.

1,390,164. MULTIPLE-FEED CIRCULAR SPRING-NEEDLE KNITTING-MACHINE. ALFRED A. ROY, Lowell, Mass., and PETER J. LANDRY, Pelham, N. H. Filed Dec. 20, 1919. Serial No. 346,297. 2 Claims. (Cl. 66—7.)

1. In a circular knitting machine, in combination, a plurality of needles, a presser, means to hold said presser in position to close said needles successively, yarn controlled means effective to withdraw said presser to inoperative position, and controlling mechanism for said latter means, said mechanism comprising a latch to hold said presser in operative position, a cam wheel rotatable by engagement with a continuously moving part of the



machine, connections from said cam wheel to said latch, and yarn controlled means for advancing said cam wheel to engaging position.

1,390,165. CALK-LOCK. EDWARD C. SADLER, Portland, Oreg., assignor to Theo. Bergmann, Portland, Oreg. Filed Jan. 25, 1921. Serial No. 439,714. 8 Claims. (Cl. 36—67.)



1. In combination, a shoe calk having an annular shoulder for determining its depth of penetration into the heel or sole of a boot or shoe, and locking means adapted to be secured in the under surface of the boot or shoe and engage the opposite sides of the annular shoulder of the calk for securing the latter from accidental displacement from normal position.

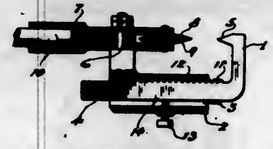
1,390,166. MEANS AND METHOD FOR MAKING SIGNS. CHARLES P. SALGER, Philadelphia, Pa. Filed Sept. 18, 1920. Serial No. 411,118. 1 Claim. (Cl. 101—127.)



A means for making signs comprising a cylindrical stencil member consisting of a pair of semi-circular elements having a plurality of openings formed therein, bands secured to the upper and lower ends of one of said elements, bolts carried by one end of said bands, bands secured to the upper and lower ends of the opposite element hingedly connected to the bands aforesaid and provided with flexible apertured extensions adapted to receive said bolts and winged nuts mounted on the other ends of said bolts and adapted to engage said extensions.

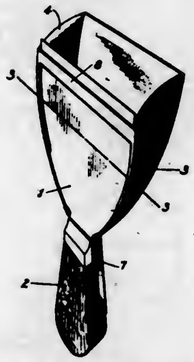
1,390,167. SPRING-LEAF SPREADER. HAROLD C. SCHUSTER, Oconomowoc, Wis. Filed Oct. 9, 1920. Serial No. 415,924. 1 Claim. (Cl. 81—3.)

A spring-leaf spreader comprising a jaw having a slot extending therethrough and provided with teeth on the upper inner wall of said slot throughout the entire length of the body, an adjustable jaw extending through said slot and provided with a plurality of teeth for interengagement with the first-named teeth, a stub shaft on said first-named jaw, a lever pivotally mounted upon said stub



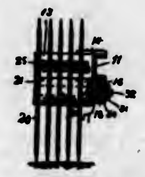
shaft, a spreading disk rotatably carried by said lever and provided with a wedge-shaped perimeter, said lever provided with a socket in its end remote from said spreading disk, and a rod inserted into said socket to increase the leverage of the lever.

1,390,168. SCRAPER ATTACHMENT. BERNARD SEELIG, New York, N. Y., assignor of one-half to Elias Roth. Filed Dec. 15, 1919. Serial No. 345,094. 2 Claims. (Cl. 72—137.)



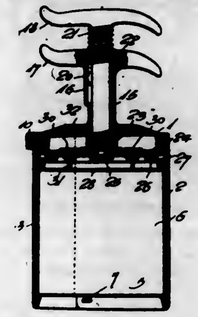
1. An attachment for scrapers, having a blade and a handle therefor, embodying a casing provided with an open side and an open end, and flanges along the walls of the casing adjacent the open side thereof and adapted to resiliently engage with the lateral edges of the blade of the scraper to clamp said blade in position to close the open side of the casing and detachably mount the casing on the scraper, and a handle portion formed on the casing and positioned to underlie a portion of the handle of the scraper, so that the hand of an operator, grasping the scraper, will embrace the handle portion of the casing and maintain the casing against inadvertent disengagement from the scraper.

1,390,169. HARROW. CLARENCE KAST SEIFRIED, Grayville, Ill. Filed Sept. 17, 1920. Serial No. 410,912. 2 Claims. (Cl. 55—30.)



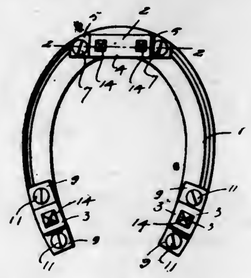
1. In a disk harrow, a supporting frame including forward and rearward members in spaced parallel relation, a shaft supported by said frame between said forward and rearward members, a plurality of disk cutters mounted upon said shaft in spaced relation, and a plurality of clearer blades extending respectively between said blades and mounted for oscillation in said forward and rearward frame members.

1,390,170. LARD AND BUTTER CUTTER. WILLIAM H. SHAFFER, Cumberland, Md. Filed Dec. 13, 1920. Serial No. 430,342. 18 Claims. (Cl. 226—19.)



1. A receptacle holding and plastic cutting device comprising a tubular body open at one end and having a head at its second end, the wall portion of the body having a stationary section and a movable section pivotally connected with the stationary section, securing means for releasably holding the movable section in an operative position, and means carried by the securing means for moving the movable wall section toward an open position when the securing means is moved to release the movable wall section.

1,390,171. HORSESHOE. JASPER P. SLATER, Charleston, W. Va., assignor of one-half to J. M. Chase, Charleston, W. Va. Filed Mar. 20, 1918. Serial No. 223,654. 1 Claim. (Cl. 168—32.)

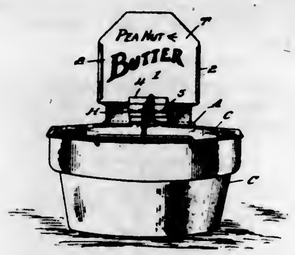


A horseshoe calk having ears for the passage of fastening means therethrough, a body joining said ears, said body having an opening therethrough and a relatively thin wall surrounding the opening, a calk for removable disposition in and projection beyond said opening, said body at said wall in the absence of said calk adapted to service directly as a calk or tread with its traction increased by the provision of said opening, and said ears being flattened above the tread surface of the body to prevent undue contact with the road and consequent wear of the fastening means passing through the ears.

1,390,172. PRICE-TAG OR CARD HOLDER. ERVIN H. SMITH, New London, Wis. Filed Oct. 5, 1920. Serial No. 414,799. 2 Claims. (Cl. 40—11.)

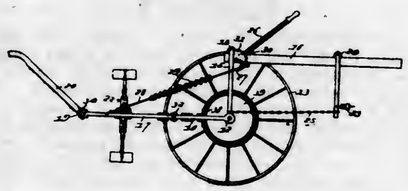
1. A device of the class described comprising a sheet metal plate provided with card retaining flanges, the lower

edge of said plate having an upturned inwardly extending spring slip for clampingly engaging a card to be held, and



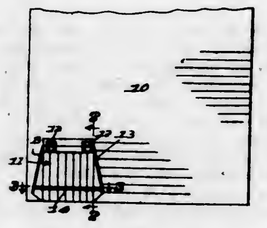
support engaging means carried by said plate comprising laterally rearward, downward and forwardly extending flanges.

1,390,173. CORN AND COTTON CHOPPER. JAMES C. SMITH, Havana, Ark. Filed Feb. 26, 1920. Serial No. 361,456. 3 Claims. (Cl. 97—46.)



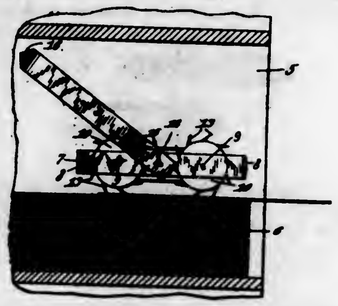
2. A machine for the purpose indicated comprising a main frame having ground wheels, and a chopper frame disposed in trailing position with reference to the main frame, the said chopper frame comprising spaced side bars each universally connected at its forward end to the rear of the main frame, transverse forward and rear bars spanning the side bars of the chopper frame and pivotally connected to the latter, a chopper wheel, a chopper shaft rotatably mounted in bearings in the said side bars and composed of sections by means of which it becomes extensible, means for communicating motion from the ground wheels to the said shaft, and handles carried by the rear transverse bar of the chopper frame, whereby lateral movement may be imparted to the latter for the purpose specified.

1,390,174. AUTOMATIC DOOR. JOHN ERNEST SPECKER, Ree Heights, S. D. Filed May 7, 1920. Serial No. 379,551. 1 Claim. (Cl. 20—16.)



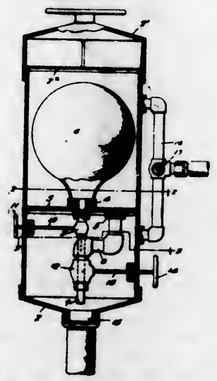
A closure for stock pens having a door hinged at its upper edge for outward swinging movement and provided at its side edges with outwardly divergent wings connected near the plane of the lower edge of the door by a horizontal outwardly projecting ledge.

1,390,175. ENVELOP-EJECTOR. REUBEN STONE, Ogema, Wis. Filed Feb. 8, 1921. Serial No. 443,358. 3 Claims. (Cl. 211—8.)



1. In combination with the side walls of an envelop container, an ejecting device including a frame, pairs of rollers carried by the frame, means for connecting the pairs of rollers to cause movement of one pair of rollers when the opposite pair is moved, pins carried by the rollers, supporting arms pivotally connected with the frame and having their free ends extending outwardly and contacting with the side walls of the container to support the device within the container.

1,390,176. WASHING DEVICE. ALBERT H. STRUVE, Pocatello, Idaho. Filed Nov. 8, 1920. Serial No. 422,667. 2 Claims. (Cl. 299—84.)



1. A device of the class described comprising a container, a partition in said container dividing the same into two chambers, a compressible receptacle in one chamber supported by the partition, means for introducing liquid into said chamber, an outlet pipe in the other chamber and in communication with said receptacle, an outlet nipple connected with the last mentioned chamber, a water pipe in said other chamber in communication with the upper chamber, valves in said pipes and means for controlling the valves from the exterior of the casing.

1,390,177. COMBINATION SEAT AND BED FOR AUTOMOBILES. LEVIN GRUBB TAYLOR, Tampa, Fla. Filed Nov. 10, 1920. Serial No. 423,107. 4 Claims. (Cl. 155—7.)

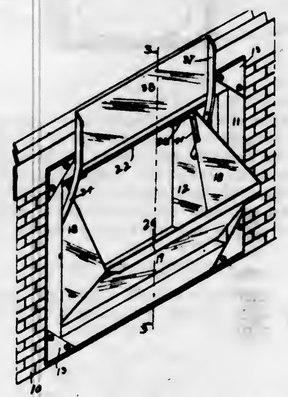
1. In a vehicle, a seat, a back therefor, fixtures secured to the back and seat and being pivotally connected together to admit of the swinging of the back, one fixture being slotted to slide on the pivot with respect to the other fixture and independently of the pivotal movement,

coöperating lugs on the fixtures adapted to abut together to hold the back elevated, one of the lugs having a cam



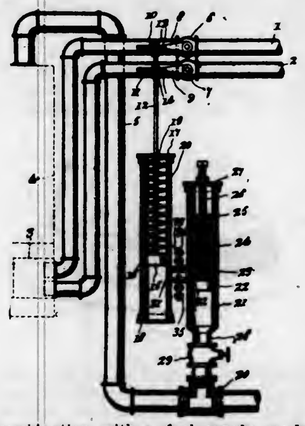
face to slide over the other lug, substantially as described.

1,390,178. WINDOW-FRAME AND CHUTE STRUCTURE. WILLIAM H. TAYLOR, Des Moines, Iowa. Filed Apr. 9, 1920. Serial No. 372,698. 4 Claims. (Cl. 193—33.)



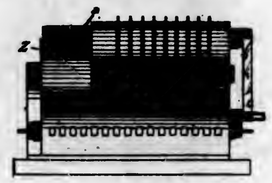
1. In a device of the class described, the combination of a frame having rearwardly extending side flanges, a chute comprising side members and a bottom member, means for slidably and pivotally supporting the upper ends of said side members on said flanges, said means being adapted to permit the raising of said chute, and means at the bottom of said frame for engaging said chute and holding it when in position for use.

1,390,179. AUTOMATIC FUEL-SAVER. DAVIDSON KER TEXADA and JENS NIELSEN OKSENHOLT, Boyce, La. Filed Mar. 10, 1921. Serial No. 451,293. 5 Claims. (Cl. 236—8.)



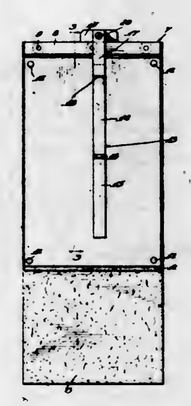
1. In combination with a fuel supply conduit and a steam space, an actuating cylinder and a control cylinder, a piston in the actuating cylinder normally and yieldingly urged to an initial position therein, means whereby said piston is connected to control passage of the fuel through said conduit, a plunger in said control cylinder normally cutting off steam from the actuating cylinder, and means for adjustably placing said plunger under compression in opposition to the steam pressure, substantially as described.

1,390,180. CALCULATING-MACHINE. FRANZ TRINKS, Brunswick, Germany. Filed Jan. 28, 1919. Serial No. 273,694. 2 Claims. (Cl. 281—1.)



1. In a device for use in combination with calculating machines and the like, a device for displaying dates and formulæ and consisting of a plurality of tablets compiled in the form of a book, the writing faces of one of said tablets consisting of a washable material, adapted to be written on.

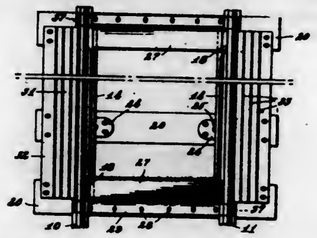
1,390,181. PORTABLE DRAFTING OUTFIT. FRANK C. VAN ETTEN, Chicago, Ill. Filed Nov. 11, 1920. Serial No. 423,241. 3 Claims. (Cl. 45—131.)



1. A portable drafting outfit comprising in combination a paper carrier including a sheet of flexible water proof backing material, a clamping bar removably secured to one edge thereof and extending the full dimension of said edge, a sheet of celluloid having one edge between said bar and the adjacent edge of the water proof backing sheet, a plurality of drafting sheets having their edges between the edge of the sheet of celluloid and said edge of the water proof backing sheet, means for clamping the bar and the water proof backing sheet together to thereby retain the edges of the sheet of celluloid and of the drafting sheets in position, and a foldable T-square in conjunction with said paper carrier and comprising a central bar, an end bar hinged to one end thereof, an offset member on the inner end of the central bar, and having a shoulder adjacent to the position of the end of the hinged bar when folded, and having another shoulder on its under side, a head pivoted to the under side of the offset member in position to clear the under shoulder, and of suitable dimensions to enable said head to seat against the outer edge of

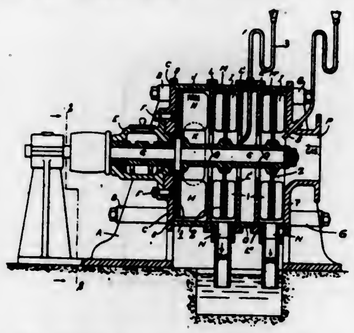
the clamping bar of the paper carrier, said foldable T-square when folded having substantially the same length and width as said clamping bar, and means for locking the head of the T-square to said offset member, substantially as described.

1,390,182. RAILROAD STREET AND ROAD CROSSING. WILLIAM P. WARE, Alderson, W. Va. Filed May 13, 1921. Serial No. 469,251. 4 Claims. (Cl. 238—8.)



1. In a railroad street crossing the combination with the main rails, guard rails arranged at the inner sides thereof, cross plates arranged between the main rails at opposite ends of the guard rails, and approach plates disposed at opposite sides of the crossing and at the outer sides of the main rails.

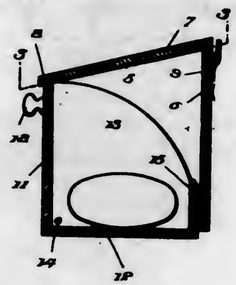
1,390,183. GAS-CLEANING APPARATUS. JOHN WELLS, Cairo, Egypt. Filed Sept. 30, 1919. Serial No. 327,442. 2 Claims. (Cl. 261—90.)



1. A gas cleaning apparatus comprising alternate rings and plates interlocking one with the other and forming compartments, end plates one of which serves as a closure while the other is formed with a central gas inlet, bolts passed through said end plates from one to the other and clamping together the assembled rings and plates, a horisontal shaft supported in the one end plate, and paddles mounted on said shaft and rotatable in said compartments and including imperforate plate portions alternating with said first plates to provide a sinuous passage through the apparatus and about the paddles.

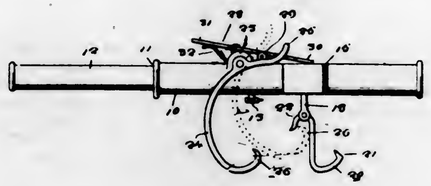
1,390,184. SOAP-HOLDER. MARTIN WINDECKER, Ruddock, La. Filed Apr. 14, 1921. Serial No. 461,402. 1 Claim. (Cl. 45—28.)

A holder of the kind described comprising a casing having sides, a bottom and a top; and a receptacle within the casing having front and bottom walls, side wings connected to and located between said walls, and a strip secured to the rear portions of said bottom wall and wings; said wings being hingedly connected adjacent to the corner between said bottom and front walls to said sides adjacent to the lower forward corners of said sides for the outward and inward swinging movement of said receptacle, the front wall having flanges projecting beyond said wings to bear against the front edges of said sides when the receptacle is swung inwardly to closed position, said flanges being movable around the lower forward corners of said sides to move under and bear upwardly against



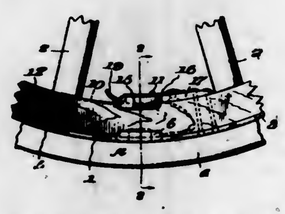
the lower edges of said sides when the receptacle is swung outwardly to open position, the top of the casing projecting at its forward edge beyond the forward edges of the sides and the front wall being movable under said forward edge of the top when the receptacle is in closed position, and said strip being movable under the forward edge portion of the top when the receptacle is in open position.

1,390,185. CANT-HOOK AND CARRIER. CHARLES J. WOLD, Grantsburg, Wis. Filed Aug. 3, 1920. Serial No. 400,942. 5 Claims. (Cl. 294—17.)



1. A cant hook comprising a body member, a removable handle for said member, a pair of hooks pivotally mounted upon the body member and connected pivotally mounted hooks also carried by the body member for engagement with the first mentioned hooks for holding the latter in open position.

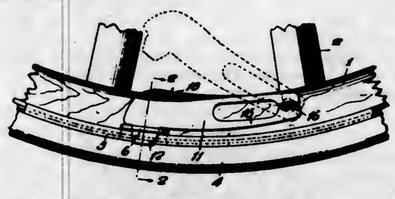
1,390,186. DEMOUNTABLE-RIM LOCK FOR VEHICLE-WHEELS. ROBERT M. BAIRD, Salt Lake City, Utah. Filed July 26, 1918. Serial No. 246,822. 9 Claims. (Cl. 301—11.)



1. The combination with a wheel felly having a plurality of axially extending openings therethrough, of a demountable rim having a plurality of retaining lugs extending axially through said openings, and of such length

as to project beyond the side face of said felly, and locking members permanently attached to said side face of the felly disposed to engage such projecting portions of said lugs.

1,390,187. DEMOUNTABLE-RIM LOCK. ROBERT M. BAIRD, Salt Lake City, Utah, assignor to Baird Demountable Rim Lock Company, Salt Lake City, Utah, a Corporation of Utah. Filed Mar. 20, 1919. Serial No. 283,816. Renewed July 9, 1921. Serial No. 483,608. 4 Claims. (Cl. 301—29.)



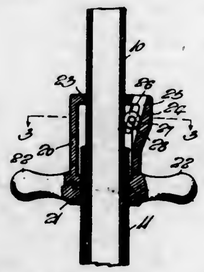
3. The combination with a wheeled felly having a transverse slot, of means for securing a demountable rim thereon, said means comprising a lug carried by the rim and constructed to pass through said slot and project beyond the face of the felly, a latch pivoted to the felly and adapted to engage the projecting end of said lug to lock the parts together, and spring means forming part of the latch itself for resiliently holding the latch in locking position.

1,390,188. TATTING-SHUTTLE. ANGELINE M. BARHAM, Philadelphia, Miss. Filed Apr. 30, 1921. Serial No. 465,684. 1 Claim. (Cl. 66—10.)



A boat-shaped tatting shuttle having a bobbin chamber with bearings in its ends, a bobbin having journals for insertion in said bearings and a tension device for the thread fed from said bobbin, mounted on one side wall of the bobbin chamber and constructed in the form of a spring metal button, one face of which has yieldable engagement with the adjacent wall of the bobbin chamber, between which and said wall the thread from the bobbin is designed to pass and be yieldably held to prevent its being too rapidly unwound from the bobbin.

1,390,189. VISE-POST. JOHN F. BIXLER and JAMES A. LONG, Reading, Pa., assignors to Penn Engineering Company, Reading, Pa. Filed June 28, 1920. Serial No. 392,429. 6 Claims. (Cl. 81—41.)



1. A vise post comprising a lower tubular section, an upper section slidably fitting in the lower section, a clutch having a tubular body threaded upon the upper portion of the lower post section for adjustment thereon to impart longitudinal adjustment to said post, and gripping means carried by the clutch for releasably gripping the upper post section and permitting longitudinal adjustment of the post sections independent of adjustment of the clutch upon the lower post section.

1,390,190. TIE. ERASTUS H. BENN, Watch Hill, R. I. Filed Apr. 19, 1921. Serial No. 462,639. 2 Claims. (Cl. 238—60.)



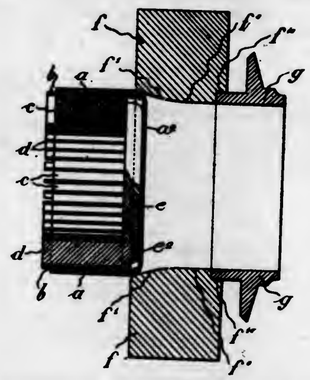
1. A tie of the character described comprising a body formed of several thicknesses of sheet metal with its side portions bent at right angles to its central portion to produce a laminated tie of channel shape in cross-section.

1,390,191. TAG SAFETY-PIN. LOREN C. BOND, Washington, D. C. Filed Jan. 25, 1921. Serial No. 439,731 4 Claims. (Cl. 40—24.)



1. As a new article of manufacture, a safety pin made of a single piece of wire bent upon itself to form a tongue and shank member, the wire being bent at the end of the shank member to form a tag retaining loop and a guard and retainer for the point of the tongue member, said guard comprising a plurality of transversely disposed loops and longitudinally disposed loops, subetantially as described.

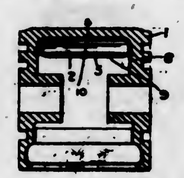
1,390,192. ELECTRIC COMMUTATOR. PIERRE BOSAU, Paris, France, assignor to Société Anonyme des Etablissements L. Blériot, Paris, France. Filed Nov. 14, 1917. Serial No. 201,939. 6 Claims. (Cl. 171—321.)



1. A commutator for electric machines, of the class wherein the current passes through an internal surface but not through the external surface of the commutator, said commutator comprising an annular series of segments, a ring of insulating material surrounding the segments on their outer cylindrical surface, a comparatively thin ring of metal having anti-friction properties and covering the said insulating ring, and a relatively strong outer binding

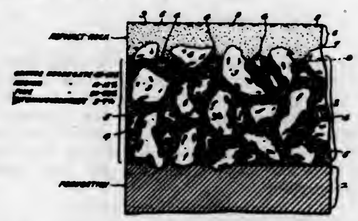
ring which exerts permanently a force on the said thin ring, which force is transmitted through the said thin ring to the insulating ring and in turn is transmitted through the insulating ring to the segments, whereby the latter are maintained under compression and in proper relation.

1,390,193. PISTON. GERSHON BOWMAN, Toronto, Ontario, Canada, assignor of one-half to William Edward Holder, Toronto, Ontario, Canada. Filed Dec. 24, 1920. Serial No. 433,007. 8 Claims. (Cl. 74—108.)



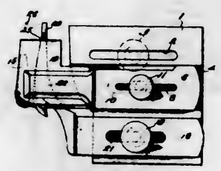
1. In a piston, a piston body having a hollow interior, and a vacuum chamber formed of non-porous metal secured within the piston body so as to cover the interior face of the head thereof.

1,390,194. ROAD STRUCTURE AND PROCESS OF MAKING. JEFFERSON S. BURDGE, Huntington Park, Calif. Filed Apr. 5, 1920. Serial No. 371,406. 10 Claims. (Cl. 94—23.)



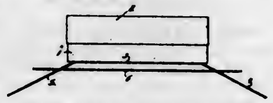
1. The improvement in road-building, which comprises the step of applying natural bituminous or asphaltic sand or rock in a granular condition in such amount as to leave a thin wear-resisting surfacing portion, composed essentially of such material to a manufactured bituminous or asphaltic concrete pavement structure, while the latter is still hot.

1,390,195. ADJUSTABLE BINDER. ALBERT H. DE VOE, Westfield, N. J., assignor to The Singer Manufacturing Company, a Corporation of New Jersey. Filed Feb. 1, 1919. Serial No. 274,461. 7 Claims. (Cl. 112—137.)



1. In a binder, a base adapted to be adjustably secured to a sewing machine clothplate, opposed binding guides having supports independently slidably adjustable with respect to said base, unitary means for securing said guides to said base in adjusted position, an independent guide and gage means adjustable toward and from said guides, and means for securing the latter, said means being separate from the means for securing the binding guides.

1,390,196. CONTAINER AND DISPLAY-CARTON. WILLIAM M. DOERING and CHARLES J. DOERING, Cincinnati, Ohio. Filed Feb. 27, 1919. Serial No. 279,483. 3 Claims. (Cl. 211—28.)

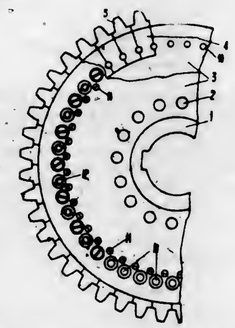


1. A display card and box support consisting of a cardboard box, a panel display member attached to one wall of the box, right and left hand display wing members hinged to the opposite edges of the panel member, and a top display member bridging and detachably engaging the wings in a plane in front of and parallel with the panel member.

1,390,197. SELF-LUBRICATING METAL BEARING AND THE LIKE. GEORGE G. DOWER, Worcester, Mass., assignor of one-half to George I. Alden, Worcester, Mass. Filed May 10, 1920. Serial No. 380,107. 1 Claim. (Cl. 64—19.)

An oilless bearing formed from bearing metal, and commercially pure graphite, mixed together while both are solid and in a fine state of subdivision and free from all foreign materials, the metal having been melted under pressure and cooled quickly, whereby the graphite particles are imprisoned therein while they are substantially in the position occupied by them before melting the metal.
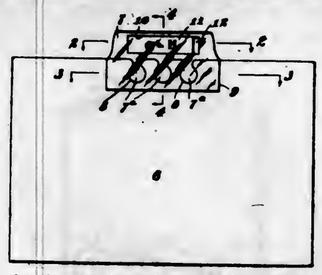
1,390,198. GEAR-WHEEL. MARIO FORSATI, Turin, Italy. Filed Mar. 22, 1921. Serial No. 454,408. 1 Claim. (Cl. 74—28.)



A toothed wheel comprising a hub, two flanges secured at the sides of said hub and providing an intermediate recess, teeth independent from each other and from said wheel body, each tooth comprising a root portion adapted to be engaged in said recess and provided with shoulders bearing on the edges of said flanges as well as with inclined surfaces provided with recesses and contacting with the similar recessed surfaces of the root portions of the adjacent teeth, the recesses of the adjacent inclined root surfaces coöperating to provide holes, said flanges having holes in register with the holes provided by the said recesses, and bolts inserted in said holes and recesses to removably clamp in position said teeth, said flanges having other holes in register with the bottom surface of the root portion of the teeth for the insertion of means for removing said teeth.

1,390,199. INDEX-CARD. LAURTON A. GALE, Belmont, Mass., assignor to Library Bureau, Cambridge, Mass., a Corporation of New Jersey. Filed Oct. 15, 1919. Serial No. 330,808. 4 Claims. (Cl. 129—16.8.)

3. An index card having a recess near an edge thereof, strengthening material secured to the card to close the sides of said recess to form a pocket, said material at one side of said pocket being transparent and provided



with a slot for the insertion of index tablets into said pocket.

1,390,200. PROCESS FOR MANUFACTURING NITROGEN-HYDROGEN MIXTURES. WILHELM GAUS and WILHELM WILD, Ludwigshafen-on-the-Rhine, Germany, assignors to Adolf Kuttroff, New York, N. Y. Filed July 9, 1920. Serial No. 395,123. 3 Claims. (Cl. 23—10.)

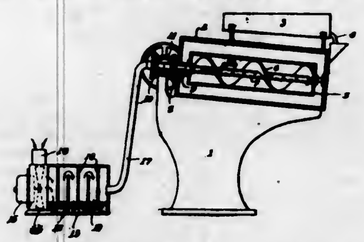
1. The process of manufacturing nitrogen-hydrogen mixtures suitable for the synthetic production of ammonia by subjecting to catalytic decomposition with steam a gas mixture containing nitrogen, carbon monoxid and hydrogen and having such a composition that by the subsequent removal of carbon dioxid and of impurities, a gas mixture of the composition required for the production of ammonia is obtained.

1,390,201. ELECTRIC-LIGHTING APPARATUS. JOHN H. GEORGE, Bridgeport, Conn., assignor to Ellsworth A. Hawthorne, Bridgeport, Conn. Filed Mar. 16, 1918. Serial No. 222,975. 6 Claims. (Cl. 173—355.)



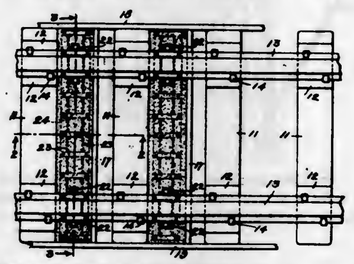
5. In an electric switch and socket, the combination of a socket member, an insulating mounting therefor, a terminal, an insulating mounting for said terminal, a switch, an insulating mounting for said switch, said switch mounting being divided longitudinally of the axis of said socket member, means to secure said socket member mounting to said switch mounting, and means to secure said divided switch mounting together.

1,390,202. METHOD OF FREEZING ICE-CREAM. ALAN K. GILLESPIE, Richmond Heights, Mo. Filed Dec. 27, 1920. Serial No. 433,537. 2 Claims. (Cl. 99—14.)



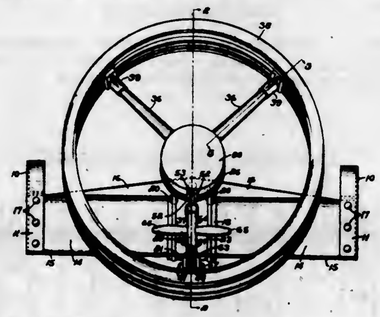
1. The process of freezing a mix to make ice cream, which consists in agitating the mix during the freezing operation and co-incident therewith continuously forcing through the body of the mix, and maintaining the same in contact with, as under pressure, to expedite the thorough incorporation thereof in the mix and thereby reduce the time of the freezing operation.

1,390,203. RAILROAD CONSTRUCTION. ALVIN R. GONSALEZ, Los Angeles, Calif., assignor of one-half to George F. Colton, Los Angeles, Calif. Filed Feb. 7, 1920. Serial No. 356,834. 2 Claims. (Cl. 238—2.)



1. The method of progressively constructing a railway, which consists of first forming a road bed composed of broken stone and hot oil, then laying temporary ties and rails thereon to form a track over which the materials for forming advanced sections of the road may be hauled, then forming reinforced permanent concrete ties on said road bed between said temporary ties provided with suitable rail fastening devices, then removing said temporary ties and allowing said rails to rest upon said permanent ties, and then securing said rails to said permanent ties by means of said fastening devices.

1,390,204. TIRE-CARRIER. CARL GUSTAVE GRONQUIST, Bridgeport, Conn., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn., a Corporation of Delaware. Filed Oct. 9, 1918. Serial No. 257,428. 21 Claims. (Cl. 224—29.)

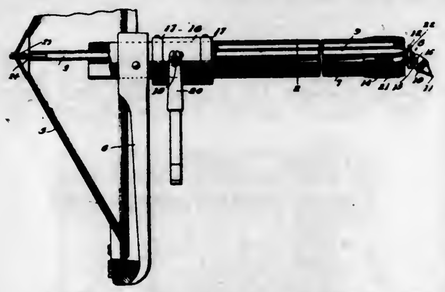


2. In a holder for annular bodies, the combination of a plurality of radiating arms having terminal abutments for engaging the internal circumferential surface of the annular body, one of said arms being pivoted and radially adjustable, and a link pivotally connected at one end to such arm and at its other end to a fixed support.

1,390,205. READILY-SOLUBLE TANNING AGENT. FRANZ HASSLER, Hamburg, Germany, assignor to Adolf Kuttroff, New York, N. Y. Filed July 9, 1920. Serial No. 395,125. 3 Claims. (Cl. 149—5.)

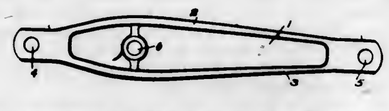
1. As a new article of manufacture, readily soluble tanning extracts, comprising a natural tan and a sulfonic acid of an at least tricyclic hydrocarbon.

1,390,206. VIBRATION-TRANSMISSION CONNECTION FOR TALKING-MACHINES. MARCUS C. HOPKINS, Chevy Chase, D. C. Filed June 7, 1920. Serial No. 387,029. 5 Claims. (Cl. 274—1.)



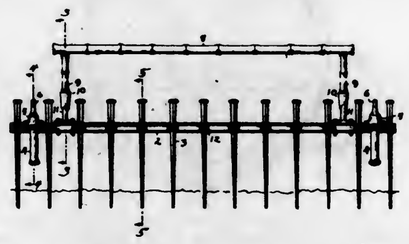
1. A talking machine element for transmitting vibrations from a stylus holder to a diaphragm, comprising a metal tube having extremely thin walls.

1,390,207. METHOD OF MANUFACTURING BRAKE-LEVERS. WILLIAM A. KERN, Ellwood City, Pa., assignor to Frederic Schaefer, Pittsburgh, Pa. Filed May 12, 1920. Serial No. 380,830. 3 Claims. (Cl. 29—164.)



1. The method of manufacturing a brake lever, which consists in first upsetting an elongate heated blank to form an enlarged intermediate portion, and in subsequently drop-forging the blank into a brake lever, the upset portion of the blank furnishing the metal for the widest portion of such lever.

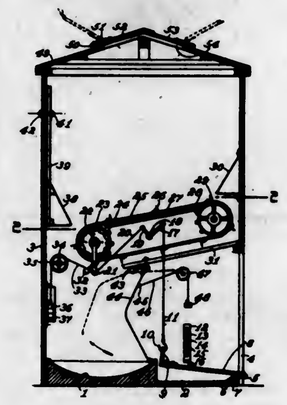
1,390,208. RICE RAKE OR HARROW. FREDERICK A. LEAS, Manila, Philippine Islands. Filed Feb. 7, 1920. Serial No. 356,906. 5 Claims. (Cl. 55—3.)



4. A rice rake or harrow, comprising a U-shaped beam of metal, a series of teeth and means adapted to clamp said teeth in a vertical position at the front side of said beam, an arched bracket at each end of said beam having a downwardly inclined socket adapted to receive a hitch member, and vertical sockets at opposite ends of said beam adapted to receive handle members.

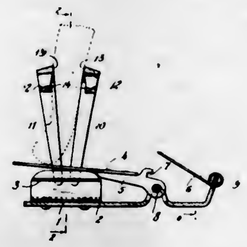
5. A rice rake or harrow, comprising a metal beam, a series of teeth and clamping members adapted to secure said teeth to said beam, arched socket brackets fixed to said beam between its ends adapted to receive hitch members, and socket brackets secured to said beam adapted to receive handle members.

1,390,209. ANIMAL-OPERATED FEEDING DEVICE. FINLEY MCARTHUR, Cedar Rapids, Iowa. Filed July 10, 1920. Serial No. 395,283. 5 Claims. (Cl. 119—55.)



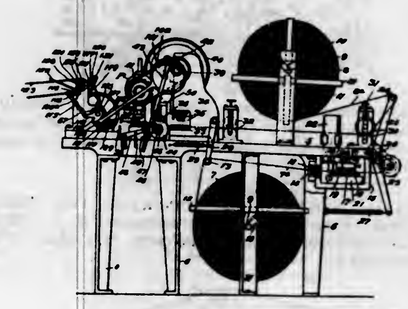
1. An animal operated feeding device, comprising a housing having an entrance in a side wall and a receiving opening in its top provided with a closure, an imperforate plate supported across the interior of the housing midway of its height, the upper part of the housing thereabove serving as a hopper, an endless conveyer encompassing said plate including end sprocket-chains and spaced sprocket-wheels carrying same, a ratchet-wheel coaxially secured on one of said sprocket-wheels, a rock-arm pivotally mounted on the axis of the ratchet-wheel and carrying a weighted pawl which movably engages teeth of the ratchet-wheel, a medially pivoted bell-crank lever, a flexible connection between one arm of said lever and said rock-arm, a swinging platform, and a flexible connection between said platform and the other arm of said bell-crank lever.

1,390,210. JAW-TRAP. ALLEN MCMULLEN, Kenwood, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Oct. 22, 1919. Serial No. 332,478. 3 Claims. (Cl. 43—90.)



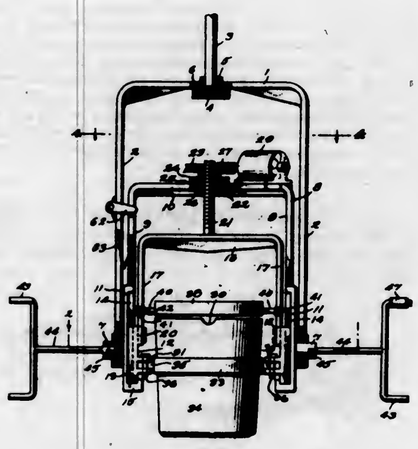
1. The jump trap comprising a jaw spring, a bottom spring, pivotally connected spring closed rigid trap jaws formed with wide flat gripping faces and connected secondary trap jaw members spaced apart inwardly from the main jaws and having wide flat gripping faces which are considerably offset as compared to the gripping faces of the main trap jaws to minimize injury or escape of an animal, the connections between said trap jaws and said secondary jaw members being offset more than said jaw members.

1,390,211. METHOD OF MAKING PAPER PACKAGE-FASTENERS. THEODORE H. KRUEGER, New York, N. Y. Original application filed May 31, 1919, Serial No. 301,057. Divided and this application filed Dec. 1, 1920. Serial No. 427,483. 19 Claims. (Cl. 93—1.)



1. The method of making paper package fasteners which includes reinforcing a strip of paper, and successively forming therefrom complemental fastener elements.

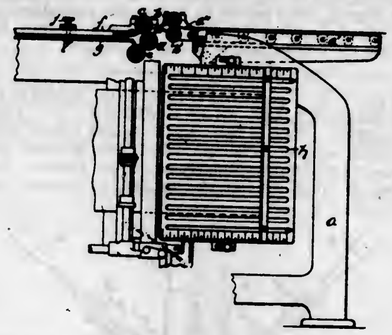
1,390,212. LADLE. WILLIAM BROOKS MURRAY, Danville, Ill., assignor of one-half to Clark D. Townsend, Ironton, Ohio. Filed Nov. 11, 1920. Serial No. 423,354. 9 Claims. (Cl. 22—82.)



1. A ladle construction comprising a main frame, an auxiliary frame pivotally mounted therein, and a ladle supported in said auxiliary frame and capable of vertical movement therein.

1,390,213. PAPER-FOLDING MACHINE. ANDREW OLSON, Cleveland, Ohio, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 19, 1918. Serial No. 229,544. 14 Claims. (Cl. 270—68.)

1. In a folding machine, the combination with the buckling plate thereof, of buckling and folding rolls associated therewith in such relation that the axes of such



rolls are disposed in two planes, intersecting at an obtuse angle, substantially as set forth.

1,390,214. GAME-TRAP. JEREMIAH O'NEIL, Sherrill, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Jan. 26, 1921. Serial No. 440,126. 7 Claims. (Cl. 43—88.)



1. The game trap comprising a frame having integral substantially rectangularly sectioned jaw posts projecting upwardly therefrom, trap jaws having pintle portions projecting outward in opposite directions through said jaw posts and a coöperating U-shaped trap spring of sheet metal formed at its upper end with a substantially circular bow to encircle the jaw post and adjacent parts of the jaws and having its lower end formed with a restricted spring slot having sides adapted to closely coöperate with the sides of the corresponding shouldered jaw post and having an upwardly projecting alining detent adjacent the upper side of said spring slot to prevent undesirable upward tilting of the U-bend of the trap spring and consequent engagement between the jaw pintles and spring bow when the trap is being set.

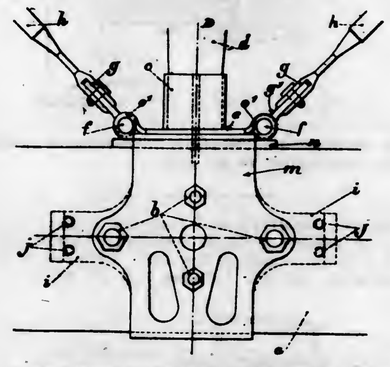
1,390,215. TRAP-JAW. JEREMIAH O'NEIL, Sherrill, N. Y., assignor to Oneida Community, Limited, Oneida, N. Y., a Corporation of New York. Filed Feb. 8, 1921. Serial No. 443,343. 4 Claims. (Cl. 43—90.)



1. The rolled steel trap jaw formed adjacent the gripping face of the jaw with a relatively flat edge rib having

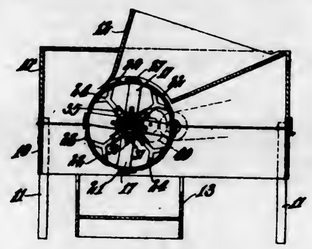
substantially the same width as the thickness of said gripping face and formed with a concavely beveled reduced thickness back portion extending away from said gripping face beyond said edge rib to stiffen and strengthen said gripping face, said edge rib portion being laterally bent to form the bearing pintles or lugs on the jaw.

1,390,216. METAL FITTING FOR ASSEMBLING LONGITUDINALS AND UPRIGHTS IN AEROPLANES. PIERRE JEAN RENÉ POSTEL-VINAY, Paris, France, assignor to Societe des Moteurs Salmson (Systeme Canton-Unne), Billancourt, Seine, France. Filed Dec. 19, 1918. Serial No. 267,546. 2 Claims. (Cl. 244—31.)



1. A metal fitting for assembling cell uprights with wing beams in aeroplanes comprising a sleeve member formed of a metal plate bent over and welded at the meeting edges and adapted to entirely surround the longitudinal and be bolted thereon, lugs integral with said sleeve folded over themselves and adapted to receive the stay wires and to form hinges for receiving the axle pins of tensioning members, and a socket member adapted to receive the end of an upright and secure at one end to said lugs.

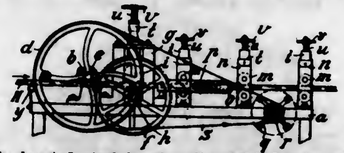
1,390,217. VEGETABLE SLICING AND CHOPPING MACHINE. MARTIN REJKOWSKI, Akron, Ohio. Filed June 7, 1921. Serial No. 475,577. 6 Claims. (Cl. 146—11.)



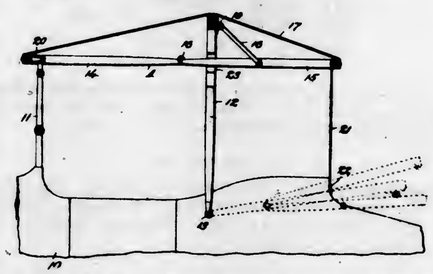
1. In a vegetable cutter, a drum, a series of knives carried thereby, plates mounted upon said drum adjacent said knives, and means for adjusting said plates circumferentially on said drum.

1,390,218. MACHINE FOR CLEANING BUILDERS' PLANKS FROM CEMENT. PETER SAUSET, Bonn, Germany. Filed May 1, 1920. Serial No. 378,240½. 2 Claims. (Cl. 15—8.)

1. A machine for cleaning builders' planks from cement, comprising, in combination, a pair of horizontally arranged rotary working rollers, a plurality of pairs of horizontally arranged working rollers behind said pair of rigid working rollers to serve at the same time as conveying rollers, a pair of yieldingly mounted and vertically arranged small ridged working rollers arranged behind said horizontally located pair of ridged working rollers, a horizontally located steel brush roller behind said vertically arranged pair of small ridged working rollers, and means to drive the machine, substantially as and for the purpose set forth.

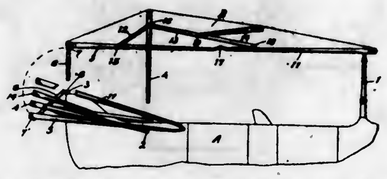


1,390,219. COLLAPSIBLE TOP-FRAME FOR VEHICLES. GEORGE L. SMITH, Washington, D. C. Filed Jan. 12, 1920. Serial No. 350,964. 5 Claims. (Cl. 296—116.)



1. A vehicle top frame including a cover frame composed of forwardly and rearwardly extending bows pivotally connected together, supporting means pivotally connected to the rearwardly extending bow at a point spaced from the ends thereof, means connecting the forwardly extending bow to the vehicle body, and means connected to the rearwardly extending bow at a point to the rear of the pivotal connection of said supporting means and to the vehicle body, whereby downward tension of said means exerts a lifting action on the pivotal connection of the cover frame bows.

1,390,220. COLLAPSIBLE TOP-FRAME FOR VEHICLES. GEORGE L. SMITH, Washington, D. C. Filed June 15, 1920. Serial No. 389,070. 10 Claims. (Cl. 296—116.)



1. The combination with a vehicle body of a collapsible top frame pivotally connected thereto and means pivotally connected to the back of the vehicle body and to the top frame co-acting with the pivotal connection between the vehicle body and the top frame for supporting the latter in erected position and in a plurality of collapsed positions.

1,390,221. BACKREST FOR BATHTUBS. MITCHEL STERN, Philadelphia, Pa. Filed June 21, 1921. Serial No. 479,281. 1 Claim. (Cl. 4—2.)

The combination in a back rest for a bath tub, of a suspending device comprising a suspending bar having bent ends and short reinforcing return bars, each said return bar at its inner end merging into an angularly disposed curl to fit over the roll rim of the tub and a curved hook bar joining said curls, a pad of absorbent material



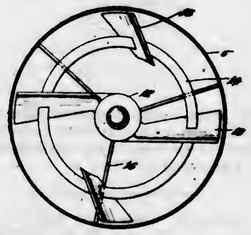
having a notched upper edge and overlapping said suspending bar and reinforcing bars, and snap fastening devices on said overlapping edge and pad for temporarily securing said pad to the suspending bar.

1,390,222. LOCK. SOLOMON WISE, Cincinnati, Ohio. Filed May 6, 1920. Serial No. 379,386. 3 Claims. (Cl. 70—108.)



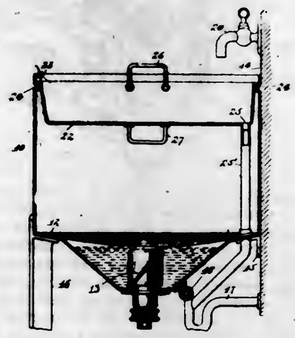
2. In a padlock, the combination of a lock body, having a recess in one face thereof, a block slidable but non-rotatable in said recess, a shackle carried by said block and extending through a wall of said recess, and means for inclosing said recess, secured to the body, said block and body having sockets therein, spring-pressed concentric plungers arranged one within the other in the block socket, matching plungers in the body socket, and said body having an orifice for insertion of a key to aline the meeting edges of the plungers to permit the block to slide, said sockets in the body and the block comprising holes extending through them, whereby the plungers may be assembled readily and the spring set in place in the block, and the plungers set into the body through the recess therein prior to insertion of the block therein, in assembling the lock.

1,390,223. DISH-WASHING MACHINE. FRANK E. WOLCOTT, Hartford, Conn. Filed Apr. 9, 1919. Serial No. 288,734. 2 Claims. (Cl. 141—9.)



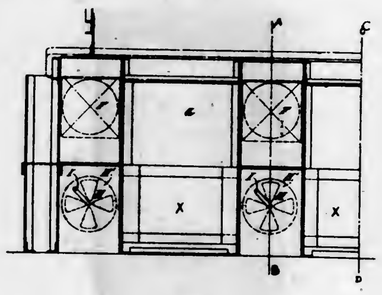
1. A dish washing machine comprising a closed receptacle, an openwork basket removably supported within the receptacle, a motor shaft passing through the bottom of the receptacle, a hollow hub fastened to the motor shaft within the receptacle, propeller blades extending on diametrically opposite sides from said hub outward to close proximity to the wall of the receptacle, a ring connecting said blades intermediate the hub and the wall of the receptacle, and propeller blades extending inward from close proximity to the wall of the receptacle but partway toward the hub and fastened to said ring intermediate the first mentioned blades, both sets of said blades being in substantially the same horizontal plane and having substantially the same pitch for throwing water upward from the lower part of the receptacle through the basket.

1,390,224. WASHING-MACHINE. FRANK E. WOLCOTT, Hartford, Conn. Filed Aug. 13, 1919. Serial No. 317,207. 2 Claims. (Cl. 141—9.)



1. A washing machine comprising a receptacle having a recess in its bottom, a rotatory impeller for water in said recess, a recessed cover for preventing the outflow of agitated water when the impeller is rotated, said cover being shaped to fit within the top of the receptacle, whereby the cover may be set in the receptacle and utilized as a sink or may be inverted and set on the receptacle to increase the capacity of the inclosed space, a drain outlet for the receptacle, a drain outlet for the cover and means for connecting said outlets.

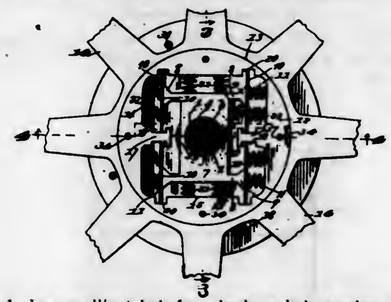
1,390,225. BOILER-FURNACE. ARTHUR SPYER, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Dec. 22, 1920. Serial No. 432,590. 3 Claims. (Cl. 110—22.)



2. A boiler furnace adapted to burn either liquid or solid fuel, having a single front, said front having therein a solid fuel firing opening, an oil burner at one side of said firing opening and above the furnace grate with an air supply opening adjacent the burner, a solid fuel air supply opening below the grate and beneath the air sup-

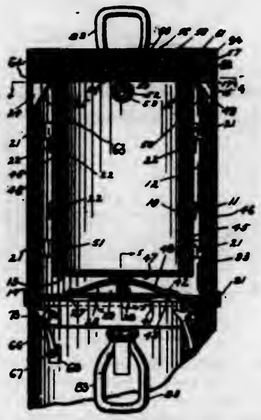
ply opening for the oil burner, a vertical duct extending from the boiler room floor upward outside the furnace front and at one side of said firing opening and covering both air supply openings, and dampers in said duct, whereby air from the duct may be supplied to both said air supply openings or to either one alone.

1,390,226. RESILIENT HUB FOR WHEELS. THOMAS M. WRIGHT, Bertram, Tex. Filed June 9, 1920. Serial No. 387,597. 2 Claims. (Cl. 152—45.)



1. In a resilient hub for wheels, a hub member proper having an abutment plate at one end, a hub ring having a rectangular opening, a hub web in said opening and mounted on the hub member proper, spokes connected to the hub ring, means coöperating with the abutment plate for holding the hub web and the hub ring against axial movement relatively to each other, said hub web being movable radially relatively to the rectangular opening of the hub ring, diametrically opposite sides of the opening having inwardly projecting radial lugs, having guides, certain opposite walls of the opening at right angles to the lugs having guides, plates engaging said guides of the opening and the lugs, resilient means between said plates and certain walls of said opening, resilient means between the hub web and certain other walls of said opening, said plates constituting guides engaged by parts of the hub web, to permit the hub web to move yieldably radially relatively to the hub ring.

1,390,227. HEAT-INSULATED CONTAINER. GEORGE P. ALTENBERG, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed June 20, 1918. Serial No. 240,979. 10 Claims. (Cl. 220—9.)



1. A vacuum heat-insulated container comprising in combination a double-walled vessel having vacuum heat-insulating space between the walls of said vessel, a reinforcing ring in said space fixed at one of its sides to one of said walls and spaced from the other of said walls for reinforcing said first-named wall, and a coating received over all the other sides of said ring and said wall which aids in maintaining the vacuum.

1,390,228. FUEL AND METHOD OF PRODUCING SAME. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Aug. 5, 1919. Serial No. 315,497. 22 Claims. (Cl. 44—8.)

10. A stable mobile fuel consisting essentially of a homogenized admixture of a relatively large quantity of pulverized solid carbonaceous substance and liquid hydrocarbon, and such a relatively smaller quantity of lime-rosin grease as will serve as a stabilizer.

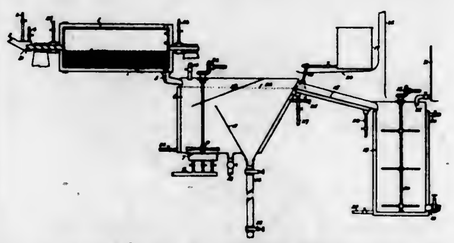
1,390,229. METHOD OF RAISING THE SPECIFIC GRAVITY AND FLASH-POINTS OF LIQUIDS. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Nov. 10, 1919. Serial No. 336,918. 8 Claims. (Cl. 44—8.)

1. The method of increasing the safety against fire of a liquid combustible of relatively high freezing point by enabling it, for a brief period, to support a layer of water and to have a higher flash point, which consists in combining therewith such amount of solid carbonaceous substance in the form of particles as will raise the specific gravity above that of water and in such proportions as will produce a free flowing mixture.

1,390,230. METHOD OF TRANSPORTING CARBONACEOUS SUBSTANCE. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Dec. 3, 1919. Serial No. 342,263. 4 Claims. (Cl. 44—8.)

1. That method of transporting carbonaceous substance, which consists in reducing the substance to the form of particles, combining the particles with liquid hydrocarbon as a carrier, treated with substance having stabilising qualities so as to carry the particles in stable suspense, passing the liquid composite through a pipe-line, and upon arrival at destination removing solid carbonaceous substance with associated liquid hydrocarbon from the carrier.

1,390,231. FUEL AND METHOD OF PRODUCING SAME. LINDON WALLACE BATES, Mount Lebanon, N. Y. Filed Mar. 23, 1920. Serial No. 368,136. 30 Claims. (Cl. 44—8.)



1. A stable mobile fuel consisting essentially of a homogenized admixture of a relatively large quantity of deashed, peptized, pulverized solid carbonaceous substance and liquid hydrocarbon.

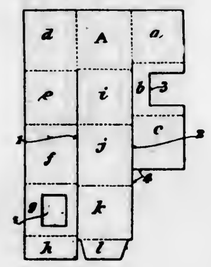
1,390,232. LIQUID FUEL AND METHOD OF MANUFACTURING IT. LINDON W. BATES, Mount Lebanon, N. Y. Filed Apr. 12, 1920. Serial No. 373,421. 8 Claims. (Cl. 44—8.)

1. That method of producing a liquid fuel, which consists in pulverizing solid carbonaceous substance in liquid hydrocarbon of low viscosity and subsequently blending therewith further liquid hydrocarbon of higher viscosity, employing such amounts that a liquid fuel of density greater than that of water is produced.

1,390,233. METHOD OF INCREASING THE SPECIFIC GRAVITY AND FLASH-POINT OF LIQUIDS. LINDON W. BATES, Mount Lebanon, N. Y. Original application filed Nov. 6, 1919, Serial No. 336,918. Divided and this application filed June 16, 1920. Serial No. 389,461. 3 Claims. (Cl. 44—8.)

1. That method of raising the specific gravity and flash point of liquid hydrocarbon so that a fluid composite is formed which will support a layer of water and will atomize at a temperature below its flash point, which consists in adding solid carbonaceous particles to liquid hydrocarbon in an amount which will give the mixture a specific gravity heavier than that of water and a flash point above the temperature of preheat necessary for proper atomization, uniting therewith coal distillate having qualities which will peptize the particles and stabilize them, and peptizing therein the particles to form a stable liquid fuel of such elevated flash point and gravity.

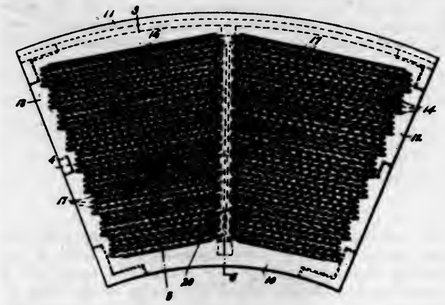
1,390,234. INCANDESCENT-GAS-MANTLE BOX. JOSEPH HANDFORD BARNES, Stockport, England. Filed Oct. 25, 1919. Serial No. 333,218. 1 Claim. (Cl. 206—68.)



A cardboard blank comprising in combination a broken corner at one end of the blank; two longitudinal cuts in said blank extending from said end of the blank to within a short distance of the opposite end thereof and dividing the blank into three parts connected together at said opposite end; a gap formed in one side of the blank; an aperture formed through one corner of the blank adapted when the blank is folded to be on the opposite side of the box to that containing said gap and to form a box top having an aperture for inspection of the interior of the box; a part on the blank adapted to cover the front of the box and said aperture when the blank is folded.

1,390,235. DRY PAN. DAVIS BROWN, Bucyrus, Ohio, assignor to Hadfield Penfield Steel Company, Bucyrus, Ohio, a Corporation of Ohio. Original application filed Dec. 14, 1917, Serial No. 207,043. Divided and this application filed Dec. 20, 1918. Serial No. 267,651. 3 Claims. (Cl. 83—56.)

1. A screen plate for dry pans, of the kind described, consisting in a framework of cast iron, steel grid bars being cast with the framework, said framework including a middle partition supporting the inner ends of the steel grid bars, said middle partition being composed of relatively thin cast iron members supporting and spacing the

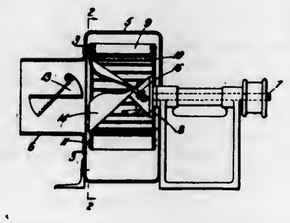


inner ends of the bars and an interposed supporting, spacing and strengthening member.

1,390,236. WATERPROOFING COMPOSITION AND PROCESS OF MAKING SAME. ANTONY DE CICILIANI, Los Angeles, Calif. Filed Jan. 24, 1921. Serial No. 439,666. 6 Claims. (Cl. 134—11.)

1. In the manufacture of waterproof material, the process of dissolving and heating castile soap in water and then adding calcium chlorid, potassium alum and hydrated lime in powdered form to a paste-like mass to be diluted with water at the time when it is to be used for coating.

1,390,237. BLOWER AND EXHAUSTER FOR MOVING AIR AND GAS. CHARLES MARKHAM CONDER, Camborne, England. Filed Mar. 26, 1921. Serial No. 455,951. 3 Claims. (Cl. 230—11.)



1. A centrifugal blower or pump including a rotary bladed impeller having a pair of rings between which the impeller-blades extend; a shaft which carries and turns the impeller; and other blades which are fastened, at one end to one of the rings and, at the other end, to the shaft, thereby tying the impeller thereto; said other blades lying disposed within the impeller-blades and extending thereacross, at an angle to the shaft and out of the plane thereof, and being spaced from the other ring and tapering in shape from the ring to which they are fastened at one end, toward the shaft and curved to give to the fluid a movement of a volute form in forcing the same outwardly toward the impeller-blades, whereby loss due to sudden change of direction of the fluid flow is avoided.

1,390,238. PHONOGRAPH-HORN. EDWARD C. OWEN, Grand Rapids, Mich., assignor to Sovilla Owen, Grand Rapids, Mich. Filed Mar. 30, 1920. Serial No. 369,968. 1 Claim. (Cl. 181—27.)

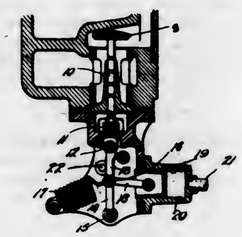
A phonograph horn comprising a horizontal bottom, a top curving upwardly toward the front, an outer side

comprising two portions lying substantially at right angles to each other and connected by a curved portion, an inner side of substantially U-shape, the outer portion of which is flared out at an acute angle with respect to the opposite side, a vertical partition disposed substantially midway between the sides of the horn and between the bot-



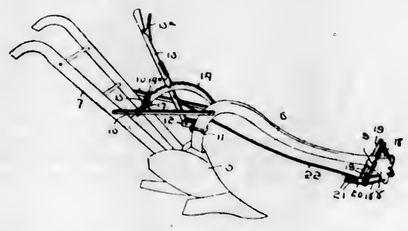
tom and top thereof, said partition extending from the rear end of the horn forwardly toward the front of the horn, a block closing the rear end of the horn, and a second block attached to the upper side of the horn at the rear end thereof, said second block and upper side of the horn having alined openings therein, substantially as described.

1,390,239. AUXILIARY-CLEARANCE VALVE. WOLFGANG TURNWALD, Syracuse, N. Y., assignor to Stumpf Una-Flow Engine Company, a Corporation of New York. Filed Jan. 22, 1916. Serial No. 73,507. 4 Claims. (Cl. 121—9.)



1. The combination with a steam engine cylinder, of a closed clearance chamber communicating therewith, a valve controlling the communication between the cylinder and the chamber, means operated by the vacuum in the exhaust to close said valve when sufficient vacuum exists and means automatically to open and rigidly lock said valve in the wide open position upon a predetermined drop in the vacuum pressure.

1,390,240. CLEVIS ATTACHMENT FOR PLOWS. FRED W. WOLTER, Cuero, Tex. Filed Feb. 13, 1920. Serial No. 358,320. 4 Claims. (Cl. 97—4.)

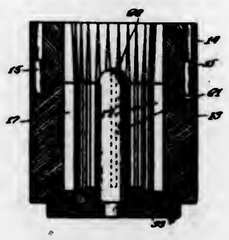


4. In a clevis attachment, a hand lever, means connecting the hand lever with the clevis, means for pivotally attaching the hand lever to a plow beam, companion brace rods attachable to the handle and beam of a plow, companion supporting plates provided with registering longitudinal slots, terminal fingers carried by the companion plates embracing the brace rods, said plates being capable of independent adjustment to compensate for variations in the angularity of the brace rods, a rack segment attachable at one terminal to a plow beam, means carried by the lever and coacting with the segment to maintain the lever in adjusted position, and means carried by the rack segment coacting with the slotted portions of the companion plates to maintain the segment in position and to secure the plates in adjusted position.

1,390,241. PROCESS FOR THE MANUFACTURE OF NAPHTHALENE SULFONIC ACIDS. JOSEPH A. AMBLER, Norwich, Conn., and HARRY D. GIBBS, San Francisco, Calif. Filed Jan. 26, 1918. Serial No. 213,978. 11 Claims. (Cl. 23—24.) (Filed under the act of Mar. 3, 1883; 22 Stat. L., 625.)

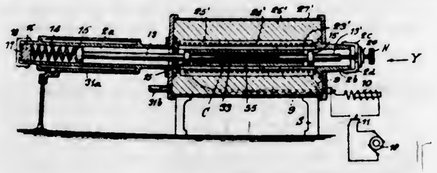
1. A continuous process for the manufacture of sulfonic acids of naphthalene by causing the vapors of naphthalene to come into contact with a descending current of sulfuric acid.

1,390,242. LAMINATED STRUCTURE AND METHOD OF MAKING SAME. VINCENT G. APPLE, Dayton, Ohio. Filed May 14, 1920. Serial No. 381,395. 8 Claims. (Cl. 154—2.)



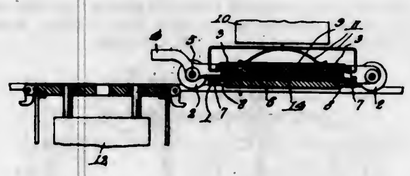
1. The method of making laminated structures which consists in assembling a series of blanks differing in outline from the finished article and associating therewith a suitable adhesive material and folding back upon the blanks parts thereof to reinforce the overlaid parts; compacting the assembled material in a hollow die conforming in outline to the finished article thereby changing the outline of the blank to conform to the die; and heating the die and its contents to harden the material.

1,390,243. METHOD OF WELDING LOW-MELTING-POINT METALS AND ALLOYS TO HIGH-MELTING-POINT METALS. CLEMENS A. LAISE, Weehawken, N. J., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y., a Corporation of New York. Filed Sept. 15, 1919. Serial No. 323,957. 28 Claims. (Cl. 78—93.)



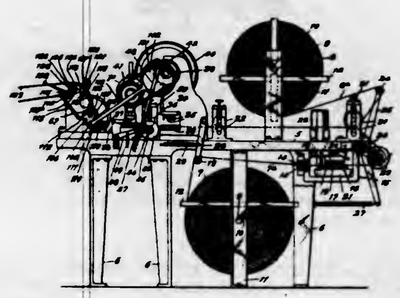
1. The herein described process which comprises compressing powdered material of low melting point against a plate of material of high melting point and subsequently heating the two.

1,390,244. PROCESS OF PRODUCING ARTIFICIAL STONE. WILLEM JACOBUS DE BAS, The Hague, Netherlands. Filed Dec. 14, 1918. Serial No. 266,790. 3 Claims. (Cl. 18—48.8.)



1. A process for imitating the veinings, mottlings and other markings of natural stone, mosaic and tessellation in slabs and blocks from artificial stone, the said slabs or blocks being made of cement and sand with a surface layer, worked up in a pastry condition, and which consists in applying to the bottom of the mold an elastic yieldable fabric, impervious to water and air, and in applying to the said fabric a thin layer of cement, containing the colors of the veinings and mottlings to be produced, and which consists further in throwing or squirting a paste of cement containing the colors of the fundamental color, consisting further in applying another layer of cement, forming the back part of the slab or block, submitting the said mass to two or more pressing actions, removing after the first pressing action the said fabric.

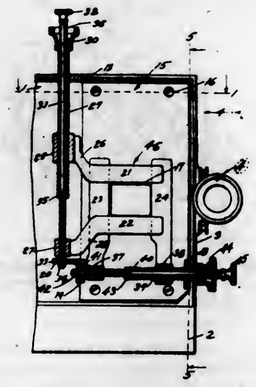
1,390,245. MACHINE FOR MAKING PAPER PACKAGE-FASTENERS. THEODORE H. KRUEGER, New York, N. Y. Filed May 31, 1919. Serial No. 301,057. 41 Claims. (Cl. 93—1.)



1. A machine of the character described including a frame, supporting means thereon for rolled strips of sheet material, pressure rollers, guide means for directing the strips from the supply rolls to the pressure rollers, means for treating one of the strips to cause the strips to stick together after passing through the pressure rollers, means for advancing the strips, and means for cutting off successive lengths of the strips, and means for detachably uniting said successive lengths of the strips to form complemental fastener elements.

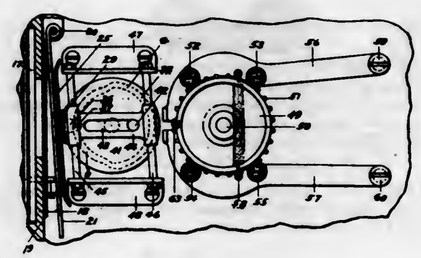
1,390,246. ADJUSTABLE CURTAIN FOR CAMERAS. JOHN E. LEONARD, Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co., a Corporation. Filed Nov. 7, 1919. Serial No. 336,394. 20 Claims. (Cl. 95—65.)

1. A camera having a curtain structure between the photographing lens and the exposure aperture and which structure includes pairs of adjustable curtain members,



one pair of which is disposed substantially at right angles to the other pair.

1,390,247. FILM-MOVING MECHANISM FOR MOTION-PICTURE CAMERAS. JOHN E. LEONARD, Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co., a Corporation. Substitute for application Serial No. 163,496, filed Apr. 20, 1917. This application filed Mar. 30, 1920. Serial No. 369,855. 5 Claims. (Cl. 88—18.4.)

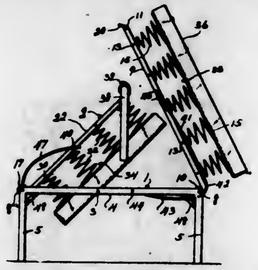


4. In a film moving mechanism for motion picture cameras, a hinge pin, a slide plate supported upon the hinge pin for oscillatory movement, a guard plate secured to the slide plate for oscillation therewith, feed fingers extending through said guard plate and engaging the perforations of a strip of film received between said guard plate and said slide plate, means for operating the feed fingers, locking pins extending through the slide plate and engaging the film perforations, and means for oscillating the slide plate to move the film into and out of engagement with the locking pins.

1,390,248. FOLDING COUCH-BED. HARRY H. MEGARY, New York, N. Y. Filed Apr. 2, 1921. Serial No. 458,107. 8 Claims. (Cl. 5—49.)

1. In a couch bed, a supporting frame having longitudinally extending tubular rods at its sides, an auxiliary couch bed section comprising transverse bars having eyes fulcrumed upon one of the longitudinally extending rods, relatively heavy wire rods connecting said bars, the free

ends of the traverse bars resting upon and engaging the opposite longitudinal tubular rod, and collars spaced



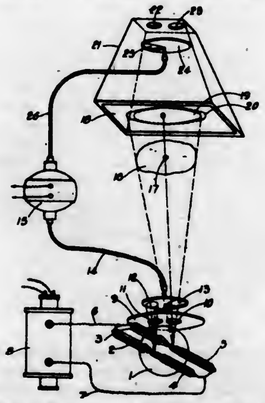
in pairs on said rods and engaging on opposite sides of the bars to hold them in place and prevent movement longitudinally of the frame.

1,390,249. PUNCTURE-CLOSING TREAD-STRIP. HENRY C. PRIVETT, Long Beach, Calif., assignor of one-half to Charles R. Privett, Burbank, Calif., three-sixteenths to Helen E. Privett and one-sixteenth to Hollis F. Privett, Long Beach, Calif. Filed Apr. 29, 1920. Serial No. 377,574. 5 Claims. (Cl. 152—13.)



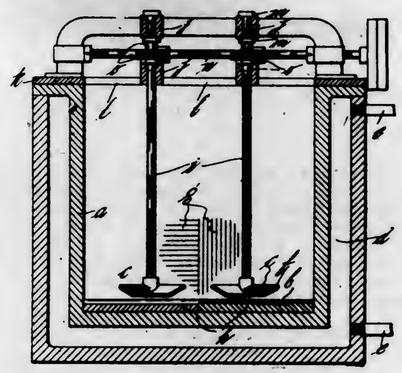
1. A tread strip adapted to be applied to an inner tube, said tread strip formed to be of even density throughout when the tube is deflated and be of unchanged density at its outer portion and of increased density at its inner portion when the tube is inflated.

1,390,250. X-RAY APPARATUS. MATIAS BALSERA RODRIGUEZ, London, England. Filed Sept. 18, 1919. Serial No. 324,697. 5 Claims. (Cl. 250—34.)



1. An X-ray apparatus for producing stereoscopic shadows of the object under examination directly upon a fluorescent screen wherein two rotating obturating disks are synchronously operated by a motor, substantially as described.

1,390,251. PROCESS AND APPARATUS FOR REFINING CHOCOLATE AND THE LIKE. WILLIAM CHRISTOPHER SCHÖPPNER, Astoria, N. Y. Filed July 2, 1920. Serial No. 393,630. 23 Claims. (Cl. 259—104.)

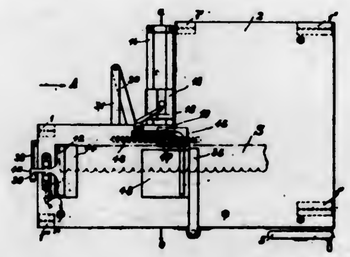


1. The method of refining chocolate and the like, which consists in rapidly and repeatedly driving the chocolate against roughened surfaces.

1,390,252. COLOR PHOTOGRAPHY. JOSEPH THOMAS SMITH, London, England. Filed May 15, 1918. Serial No. 234,753. 12 Claims. (Cl. 95—2.)

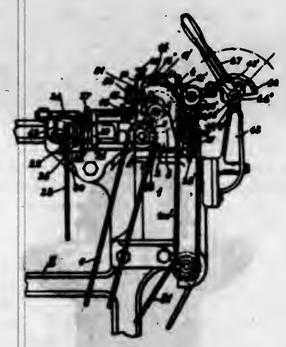
1. Process of forming a discriminative composite, color-screen suited to control a photographic monochrome, which process comprises laying colloid lines or areas with a fluid aqueous colored colloid on a base which is non-absorbent for aqueous preparations, but is generally adsorbent and absorbent for alcoholic and aromatic preparations, then after drying staining the base by a solution of a dye in a fluid which the base adsorbs; the color of the stain being broadly or generally antichromatic to the color in the aqueous colloid.

1,390,253. MACHINE FOR PILING FABRIC. ALOIS TSCHERNE, Rorschach, Switzerland. Filed June 22, 1920. Serial No. 390,971. 3 Claims. (Cl. 270—30.)



1. In a machine of the character set forth, in combination, a fabric supporter adapted to reciprocate in vertical direction and also in horizontal direction crosswise of the direction of fabric feed, a stationary fabric gripper, and a fabric looper adapted to reciprocate in horizontal direction lengthwise of the direction of fabric feed, and means for operating said parts in timed relation.

1,390,254. MACHINE FOR CUTTING EMBROIDERY. ALOIS TSCHERNE, Rorschach, Switzerland. Filed Oct. 16, 1920. Serial No. 417,435. 12 Claims. (Cl. 164—61.)



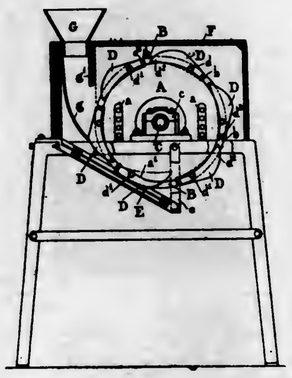
1. In a machine of the character described for cutting embroidery along its edge, in combination with the machine frame and a motor, circular cutting means adapted to be vertically rotated by said motor, gate members forming the intake for the fabric to be cut and located directly in front of said circular cutting means, a fold-preventing and fabric-feed facilitating nose on the lower one of said gate members, guide rolls, adapted to feed and guide the fabric to the circular cutter, two pairs of horizontally rotatable feed rollers, located in the rear of the circular cutter, the one of these roller pairs handling the waste fabric portion and the other the embroidered fabric and one roller of at least one of said roller pairs being swingingly arranged, controlling organs operatively connected to said guide rolls and adapted to be operated for controlling the fabric feed, a guide member for drawing away the cut-out embroidery portion from the said gate members and for lifting and twisting it, means for controlling the rotary speed of said feed rollers, and means in connection with the main drive coupling for instantaneously starting or stopping the machine.

1,390,255. CUFF-LINK, STUD, SOLITAIRE, TIE ORNAMENT, AND THE LIKE. WILFRED A. WILSON, London, England. Filed Mar. 19, 1921. Serial No. 453,589. 6 Claims. (Cl. 24—102.)



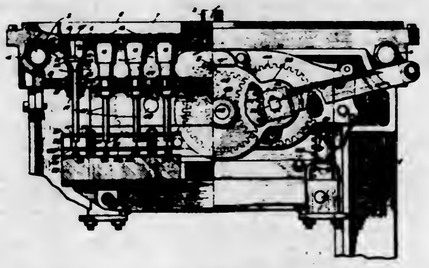
1. A device for use as a cuff link, stud, solitaire, tie ornament or similar fastening device formed in two parts adapted to be interlocked one with the other, both of said parts being connected together to form a cuff link and one of said parts being removable from the other to form part of a stud, and at least one of said parts having removably mounted thereon a carrier adapted to be attached to a tie to serve as a tie ornament.

1,390,256. MACHINE FOR GRANULATING MOIST MATERIAL. ERNEST WORSLEY, Blackley, England, assignor to G. F. Wilde Limited, Stockport, England, a Company of England. Filed Oct. 6, 1920. Serial No. 415,148. 3 Claims. (Cl. 83—14.)



1. In apparatus for granulating or mixing moist material the combination of two stationary rings of a disk rotating between them, a plurality of cups pivotally mounted on said disk to receive the material and means coöperating with the said disk to produce a granulating action.

1,390,257. CANDLE-MOLDING MACHINE. JOSEPH DILLMAN, Cincinnati, Ohio, assignor to Homan & Company, Cincinnati, Ohio, a Firm composed of Louis B. Homan and Joseph T. Homan. Filed Dec. 9, 1919. Serial No. 343,472. 10 Claims. (Cl. 18—27.)



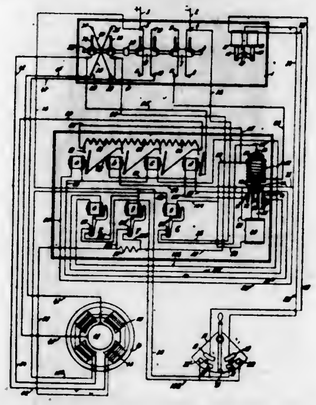
1. In a candle molding machine comprising a tubular mold member, a movable mold base adapted to seat within said mold member, a wick core and piercing needle concentrically engaging through said base and within said mold member, and unitary elevating means coöperating with said base and needle for independent needle elevating control and simultaneous needle and base elevating control.

1,390,258. STEPPED LENTICULAR SYSTEM FOR HEAT AND LIGHT CONCENTRATING TO BE USED ON FLYING-MACHINES. PHILIPPE GENESTE, Chateau de Chapeau Cornu, Vigneu, France. Filed June 8, 1920. Serial No. 387,505. 3 Claims. (Cl. 244—31.)



1. The combination with a plane of a flying machine, of a lenticular system having a focus beyond the plane applied thereto for forming a light and heat accumulator.

1,390,259. CONTROL FOR ELECTRIC MOTORS. OSCAR F. SHEPARD, Cincinnati, Ohio, assignor to The Warner Elevator Mfg. Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 2, 1917. Serial No. 151,889. 5 Claims. (Cl. 172—179.)



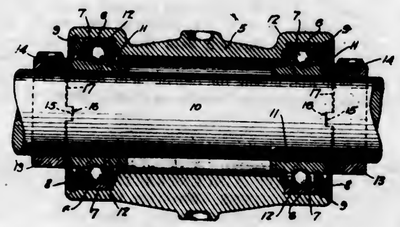
1. The combination of an electric motor, a motor field resistance, an electro-magnet operated switch device controlling said resistance, a motor starting switch having a movable switch element controlling the circuit to said electro-magnet switch device, and electro-magnetic means having its magnet windings in circuit with the motor for energizing said windings, thereby retarding the resistance reducing movement of said switch element.

1,390,260. SALTS OF AROMATIC HYDROXYL AMINS. NATHAN SULZBERGER, New York, N. Y. Filed Dec. 18, 1918. Serial No. 267,409. 4 Claims. (Cl. 23—24.)

1. As a new product, a salt of an aromatic hydroxylamin with an organic acid.

REISSUES.

15,187. SHAFT-HANGER BEARING. HARRY R. REYNOLDS, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a Corporation of Connecticut. Filed Mar. 29, 1921. Serial No. 456,695. Original No. 1,326,892, dated Dec. 30, 1919, Serial No. 286,653, filed Apr. 1, 1919. 9 Claims. (Cl. 64—36.)



9. In a bearing box construction, a hollow tubular box having a cavity at one end for receiving a ball bearing, a unitary ball bearing comprising, two one-piece bearing rings having complementary raceways with balls therein holding said bearing rings in operative position, the outer bearing ring being of less width than the width of the recessed portion of the box, whereby a portion of the box will overstand and project beyond the same when the bearing is in place therein, the inner bearing ring having an extension at one side projecting beyond the outer bearing ring and on the same side as the overhanging portion of said box, a protector ring located between the overstanding part of the box and the projecting end of the inner bearing ring, and covering the space between said bearing rings, and means engageable with the extended portion of the inner bearing ring for rotating the same relatively to the outer bearing ring.

15,188. DESIGN FOR A DOLL. RUTH H. USHER, Brooklyn, N. Y. Filed Mar. 29, 1921. Serial No. 456,560. Term of patent 7 years. Original No. 57,025, dated Jan. 25, 1921, Serial No. 393,419, filed July 1, 1920, for 3½ years.



The ornamental design for a doll, substantially as shown.

15,189. RECORD AND REFERENCE BOOK. AUGUSTUS R. TOWERS, Richmond, Va. Filed July 19, 1921. Serial No. 485,965. Original No. 1,329,562, dated Feb. 3, 1920, Serial No. 301,587, filed June 3, 1919. 6 Claims. (Cl. 283—36.)

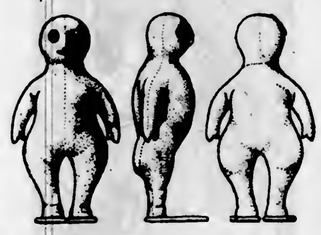
1. A record and reference book comprising 100 pairs of oppositely facing pages, each pair of pages being subdivided into ten groups of entry spaces and two groups of supplement or overflow entry spaces, the spaces on each page of a pair being arranged in five groups of original entry spaces and one group of supplement entry spaces, the entry spaces of all groups on a page being characterized by two like terminal digits, and the numbers distinguishing the original entry spaces on said page being



further characterized by the prefix of a digit which progresses numerically by groups from 0 to 9 for the groups on each pair of pages.

DESIGNS.

58,863. DOLL. LAURA E. ALEXANDER, Indianapolis, Ind. Filed Nov. 17, 1920. Serial No. 424,796. Term of patent 7 years.



The ornamental design for a doll as shown.

58,864. BOUDOIR-LAMP OR THE LIKE. JOSEPH S. APFEL, New York, N. Y. Filed Jan. 26, 1921. Serial No. 440,240. Term of patent 7 years.



The ornamental design for a boudoir lamp or the like, as shown.

58,865. BOUDOIR-LAMP. JOSEPH S. APFEL, New York, N. Y. Filed Jan. 29, 1921. Serial No. 441,053. Term of patent 7 years.



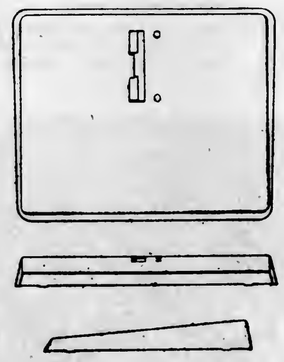
The ornamental design for a boudoir lamp, as shown.

58,866. SPINNING-TOP. SETRAK ABATURIAN, New York, N. Y. Filed May 11, 1920. Serial No. 380,668. Term of patent 7 years.



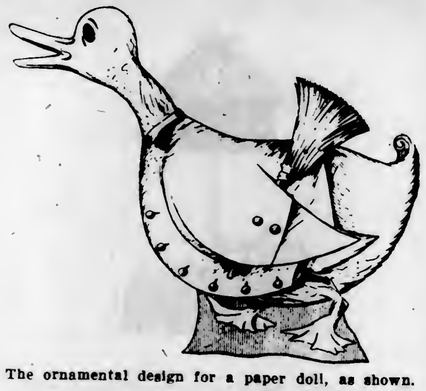
The ornamental design for a spinning top, as shown.

58,867. CALENDAR-STAND BASE. ROBERT H. BAXTER, Brooklyn, N. Y., assignor to Defiance Manufacturing Company, a Corporation of Massachusetts. Filed May 24, 1921. Serial No. 472,267. Term of patent 14 years.



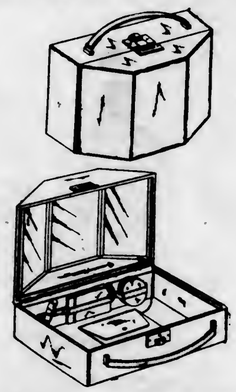
The ornamental design for a calendar stand base, as shown.

58,868. PAPER DOLL. FLORA BENSON, Angleton, Tex. Filed June 30, 1920. Serial No. 393,189. Term of patent 14 years.



The ornamental design for a paper doll, as shown.

58,869. VANITY-CASE. MAX BERKOWITZ, Richmond Hill, N. Y. Filed Jan. 10, 1921. Serial No. 436,372. Term of patent 3½ years.



The ornamental design for a vanity case, substantially as shown.

58,870. FABRIC USED IN UPHOLSTERING AND DECORATING. CHARLES LAURENT GAETAN BIANCHINI, Paris, France. Filed Jan. 29, 1921. Serial No. 441,048. Term of patent 7 years.



The ornamental design for fabric used in upholstering and decorating, as shown.

58,871. FABRIC USED IN UPHOLSTERING AND DECORATING. CHARLES LAURENT GAETAN BIANCHINI, Paris, France. Filed Jan. 29, 1921. Serial No. 441,049. Term of patent 7 years.



The ornamental design for fabric used in upholstering and decorating, as shown.

58,872. FABRIC USED IN UPHOLSTERING AND DECORATING. CHARLES LAURENT GAETAN BIANCHINI, Paris, France. Filed Jan. 29, 1921. Serial No. 441,050. Term of patent 7 years.



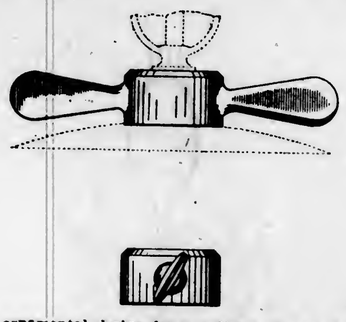
The ornamental design for fabric used in upholstering and decorating, as shown.

58,873. FABRIC USED IN UPHOLSTERING AND DECORATING. CHARLES LAURENT GAETAN BIANCHINI, Paris, France. Filed Jan. 29, 1921. Serial No. 441,051. Term of patent 7 years.



The ornamental design for fabric used in upholstering and decorating, as shown.

58,874. RADIATOR-CAP. OTTO E. BLACK, Dayton, Ohio, assignor to The Lucas-Miner Tool and Production Company, Dayton, Ohio, a Corporation of Ohio. Filed June 7, 1921. Serial No. 475,744. Term of patent 7 years.



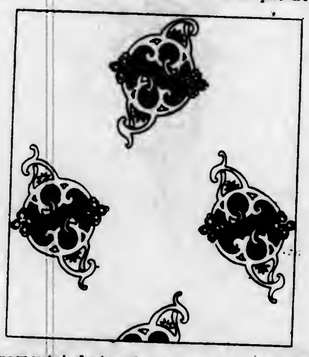
The ornamental design for a radiator cap as shown.

58,875. FINGER-RING. ERNEST E. BROSS, Detroit, Mich. Filed May 28, 1921. Serial No. 473,413. Term of patent 14 years.



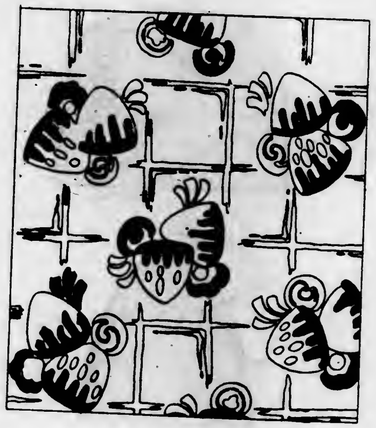
The ornamental design for a finger ring, as shown.

58,876. BROCADE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,045. Term of patent 3½ years.



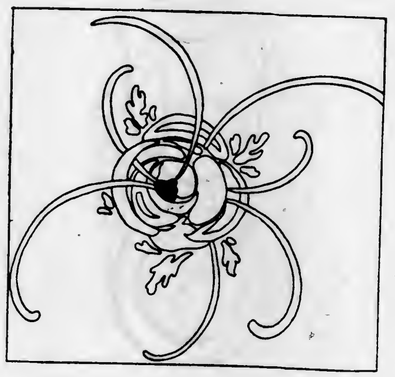
The ornamental design for a brocade fabric, as shown.

58,877. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,046. Term of patent 3½ years.



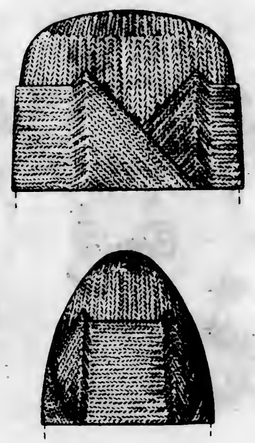
The ornamental design for a textile fabric, as shown.

58,878. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,048. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,879. KNITTED CAP. DANIEL F. BYRNES, Delavan, Wis., assignor to Bradley Knitting Company, Delavan, Wis., a Corporation of Wisconsin. Filed June 8, 1921. Serial No. 476,099. Term of patent 14 years.



The ornamental design for a knitted cap, as shown.

58,880. LAMP-GLOBE. CHARLES A. CAMPBELL, New York, N. Y. Filed Apr. 3, 1920. Serial No. 371,161. Term of patent 7 years.



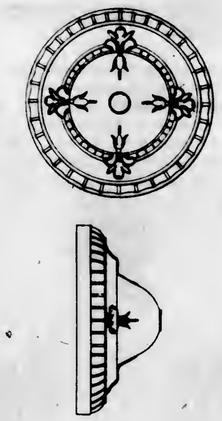
The ornamental design for a lamp globe, as shown.

58,881. COMBINED SPOON AND FORK. JOSEPH DOMINGO Y CARELLAS, Nice, France. Filed May 31, 1921. Serial No. 473,901. Term of patent 14 years.



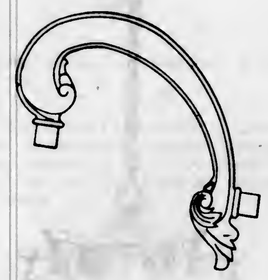
The ornamental design for a combined spoon and fork, as shown.

58,882. BACK PLATE OF A WALL-BRACKET FOR LIGHTING-FIXTURES. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,086. Term of patent 7 years.



The ornamental design for a back plate of a wall bracket for lighting fixtures, as shown.

58,883. BRACKET-ARM FOR LIGHTING-FIXTURES. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,087. Term of patent 7 years.



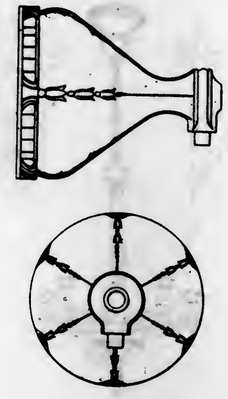
The ornamental design for a bracket arm for lighting fixtures, as shown.

58,884. LIGHTING-FIXTURE UNIT. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,088. Term of patent 7 years.



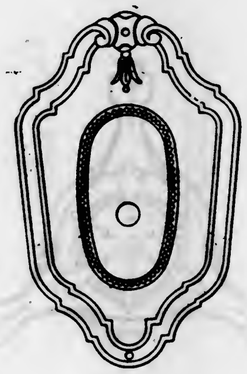
The ornamental design for a lighting fixture unit, as shown.

58,885. COMBINED WALL-BRACKET AND SOCKET-COVER FOR LIGHTING-FIXTURES. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,089. Term of patent 7 years.



The ornamental design for a combined wall-bracket and socket cover for lighting fixtures, as shown.

58,886. BACK PLATE OF A WALL-BRACKET FOR LIGHTING-FIXTURES. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,090. Term of patent 7 years.



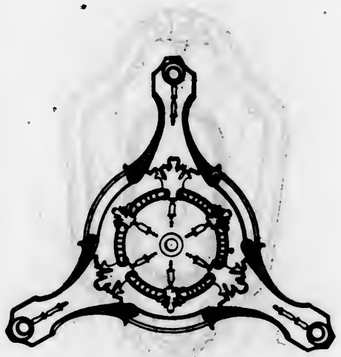
The ornamental design for a back plate of a wall bracket for lighting fixtures, as shown.

58,887. LIGHTING-FIXTURE UNIT. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,091. Term of patent 7 years.



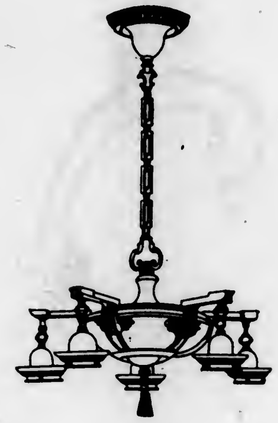
The ornamental design for a lighting fixture unit, as shown.

58,888. THREE-WAY PLATE FOR LIGHTING-FIXTURES. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation. Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,092. Term of patent 7 years.



The ornamental design for a three way plate for lighting fixtures, a. shown.

58,889. LIGHTING-FIXTURE UNIT. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,093. Term of patent 7 years.



The ornamental design for a lighting fixture unit, as shown.

58,890. WALL-PLATE OF A BRACKET FOR A LIGHTING-FIXTURE. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,094. Term of patent 7 years.



The ornamental design for a wall plate of a bracket for a lighting fixture, as shown.

58,891. WALL-PLATE FOR A LIGHTING-FIXTURE. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,095. Term of patent 7 years.



The ornamental design for a wall plate for a lighting fixture, as shown.

58,892. LIGHTING-FIXTURE UNIT. HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Jan. 13, 1921. Serial No. 437,096. Term of patent 7 years.



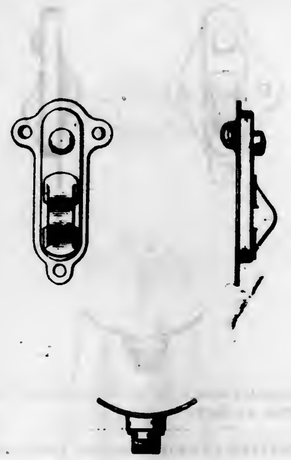
The ornamental design for a lighting fixture unit, as shown.

58,893. ANKLET. REGINA T. DRAGER, Seattle, Wash., assignor of one-half to Charles A. Shuart, King county, Wash. Filed Feb. 15, 1921. Serial No. 445,268. Term of patent 3½ years.



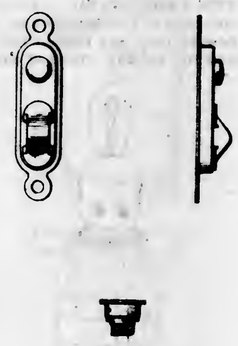
The ornamental design for an anklet, as shown.

58,894. CONTACT DEVICE FOR PORTABLE ELECTRIC LIGHTS. JOHN T. DRUFVA, Long Meadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1920. Serial No. 351,481. Term of patent 14 years.



The ornamental design for a contact device for portable electric lights, as shown.

58,895. CONTACT DEVICE FOR PORTABLE ELECTRIC LIGHTS. JOHN T. DRUFVA, Long Meadow, Mass., assignor to Henry Hyman & Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1920. Serial No. 351,482. Term of patent 14 years.



The ornamental design for a contact device for portable electric lights, as shown.

58,896. CONTACT DEVICE FOR PORTABLE ELECTRIC LIGHTS. JOHN T. DRUYVA, Long Meadow, Mass., assignor to Henry Hyman & Co. Inc., New York, N. Y., a Corporation of New York. Filed Jan. 14, 1920. Serial No. 351,483. Term of patent 14 years.



The ornamental design for a contact device for portable electric lights, as shown.

58,897. TEXTILE FABRIC. ADOLPHE EISELE, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,053. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

58,898. ELECTRIC-LAMP STAND. CLAIR H. ELLIOTT and ARTHUR SUPANSICK, San Diego, Calif., assignors of one-third to Edward Loos, San Diego, Calif. Filed Jan. 13, 1921. Serial No. 437,104. Term of patent 7 years.



The ornamental design for an electric lamp stand, as shown.

58,899. ORNAMENT FOR A RADIATOR-CAP. CLARENCE E. ELLIOTT and ORVILLE O. NICHOLS, Kansas City, Mo. Filed June 20, 1921. Serial No. 479,132. Term of patent 3½ years.



The ornamental design for an ornament for a radiator cap, as shown.

58,900. DOLL-WIG. OTTO FOLLENDER, East Islip, N. Y. Filed Nov. 19, 1920. Serial No. 425,285. Term of patent 3½ years.



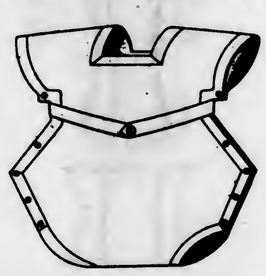
The ornamental design for a doll-wig, as shown.

58,901. STATUETTE. FRANK J. GRISSLER, San Francisco, Calif. Filed Sept. 23, 1920. Serial No. 412,360. Term of patent 3½ years.



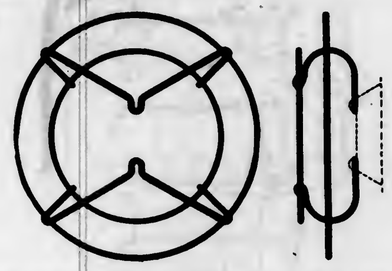
The ornamental design for a statuette, as shown.

58,902. ROMPERS. RUBY GILBERT, Etiwanda, Calif. Filed Oct. 5, 1920. Serial No. 414,877. Term of patent 7 years.



The ornamental design for a romper, as shown.

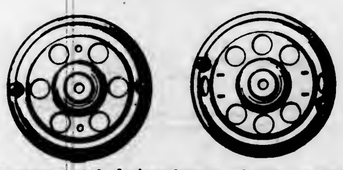
58,903. MOTOR-FAN GUARD. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 27, 1921. Serial No. 465,007. Term of patent 14 years.



The ornamental design for a motor fan guard, substantially as shown.

58,904. ELECTRIC-MOTOR CASING. ALFRED C. GILBERT, New Haven, Conn., assignor to The A. C. Gilbert Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 27, 1921. Serial No. 465,008. Term of patent 14 years.





The ornamental design for an electric motor casing, substantially as shown.

58,905. POWDER-BOX. JOHN W. HARRINGTON, Houston, Tex. Filed June 14, 1920. Serial No. 389,027. Term of patent 14 years.



The ornamental design for a powder box as shown.

58,906. TALCUM-POWDER BOX. EDMUND HOFFMAN, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Jan. 17, 1921. Serial No. 438,021. Term of patent 14 years.



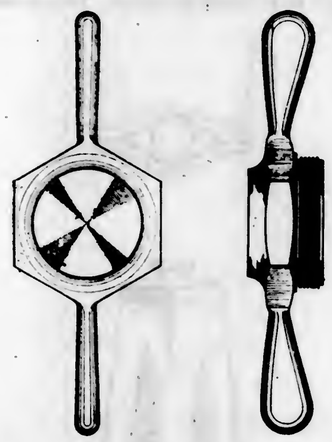
The ornamental design for a talcum powder box, as shown.

58,907. RADIATOR FOR AN AUTOMOBILE. ALBERT OWEN HOLTOM and JAMES B. CROCKETT, New York, N. Y. Filed Feb. 17, 1920. Serial No. 359,351. Term of patent 7 years.



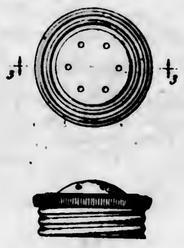
The ornamental design for a radiator for an automobile as shown and described.

58,908. RADIATOR-CAP. ROBERT H. HUMMERT, Dayton, Ohio. Filed May 16, 1921. Serial No. 470,015. Term of patent 14 years.



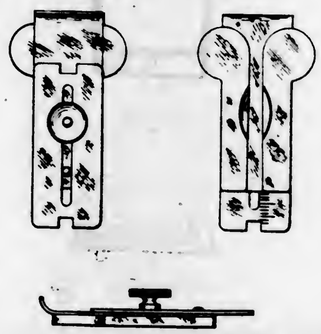
The ornamental design for a radiator cap, as shown.

58,909. POWDER-CONTAINER TOP. FRANK S. HYATT, Brooklyn, N. Y. Filed Feb. 8, 1921. Serial No. 443,476. Term of patent 3½ years.



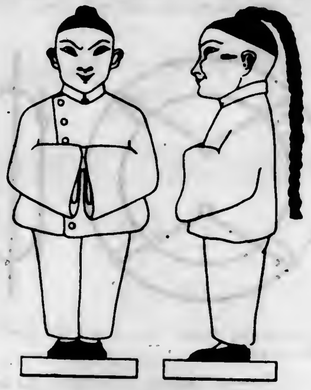
The ornamental design for a powder container top, as shown.

58,910. TEMPLE-GAGE. WILLIAM A. JACKSON, Binghamton, N. Y. Filed Mar. 14, 1921. Serial No. 452,334. Term of patent 14 years.



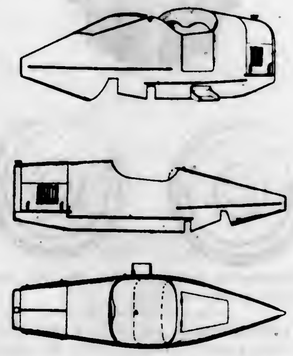
The ornamental design for a temple gage, as shown.

58,911. STATUE. EDWARD J. JEWELL, Chicago, Ill. Filed Feb. 23, 1921. Serial No. 447,328. Term of patent 3½ years.



The ornamental design for a statue, as shown.

58,912. AUTOMOBILE-BODY. ALBERT R. ZWEBELL, Milwaukee, Wis., assignor to Bub Body Corporation, Milwaukee, Wis., a Corporation of Wisconsin. Filed Jan. 28, 1921. Serial No. 440,816. Term of patent 3½ years.



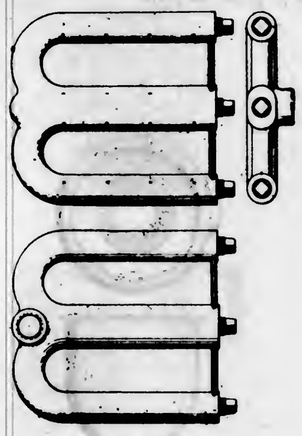
The ornamental design for an automobile body, as shown.

58,913. TEXTILE FABRIC. CLARA KATZ, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,057. Term of patent 3½ years.



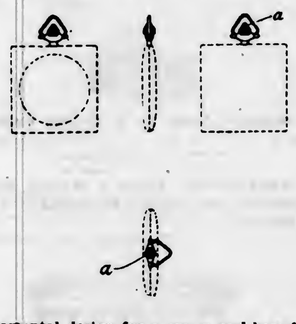
The ornamental design for a textile fabric as shown.

58,914. GAS-BURNER. HARRY E. KERR and WILLIAM J. BARBER, Cleveland, Ohio, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Filed May 26, 1919. Serial No. 299,987. Term of patent 14 years.



The ornamenal design for a gas burner, as shown.

58,915. CROWN AND BOW FOR WATCHCASES. ISIDOR KOKET, New York, N. Y. Filed Aug. 25, 1920. Serial No. 406,027. Term of patent 3½ years.



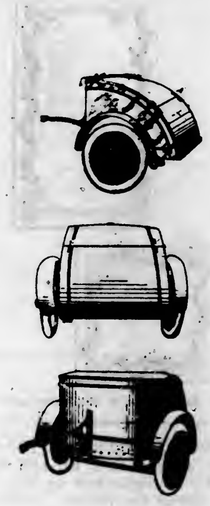
The ornamental design for a crown and bow for watchcases as shown.

58,916. FRONT OF A SIGNAL-LENS. OSCAR KROEHLE, Lakewood, Ohio. Filed Jan. 17, 1921. Serial No. 438,010. Term of patent 14 years.



The ornamental design, substantially as shown, for the front of a signal-lens.

58,917. TRAILER FOR AUTOMOBILE VEHICLES. JEAN HENRI LABOURDETTE, Courbevoie, France. Filed July 30, 1920. Serial No. 400,239. Term of patent 14 years.



The ornamental design for a trailer for automobile vehicles, as shown.

58,918. TRAILER FOR AUTOMOBILE VEHICLES. JEAN HENRI LABOURDETTE, Courbevoie, France. Filed July 30, 1920. Serial No. 400,240. Term of patent 14 years.



The ornamental design for a trailer for automobile vehicles, as shown.

58,919. MEDICINE-CARTON. EDWARD ELSWORTH LEEPER, Council Bluffs, Iowa. Filed Jan. 3, 1921. Serial No. 434,812. Term of patent 3½ years.



The ornamental design for a medicine carton, as shown.

58,920. SHELL SPECTACLE-FRAME. THOMAS LEYTHAM, Rochester, N. Y., assignor to E. Kirstein Sons Company, Rochester, N. Y., a Corporation of New York. Filed Aug. 20, 1920. Serial No. 404,919. Term of patent 14 years.



The ornamenal design for a shell spectacle frame, as shown.

58,921. BUTTON. ARTHUR M. LIBBY, New York, N. Y. Filed Apr. 2, 1920. Serial No. 370,895. Term of patent 14 years.



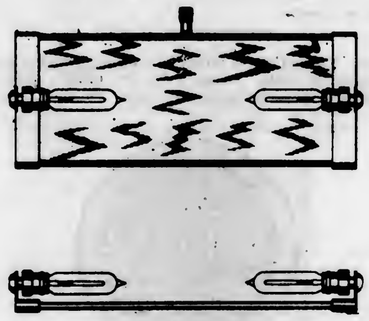
The ornamental design for a button as shown.

58,922. WASHING-MACHINE CASING. NATHANIEL LOMBARD, Worcester, Mass., assignor to Lombard, White Company, Worcester, Mass., a Corporation of Massachusetts. Filed Aug. 14, 1920. Serial No. 403,614. Term of patent 14 years.



The ornamental design for a washing machine casing, as shown.

58,923. REFLECTOR. JAMES S. MASSEY, Toledo, Ohio. Filed Apr. 18, 1921. Serial No. 462,442. Term of patent 7 years.



The ornamental design of a reflector as shown.

58,924. PHONOGRAPH-CABINET. WILLIAM EDGAR MIELDING, Sr., New Orleans, La. Filed Apr. 5, 1921. Serial No. 458,766. Term of patent 14 years.



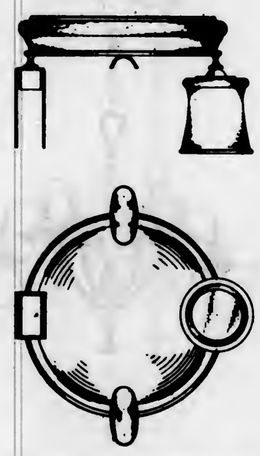
The ornamental design for a phonograph cabinet, as shown.

58,925. ASH-TRAY. GUSTAVE M. MINTON, New York, N. Y. Filed Oct. 21, 1919. Serial No. 332,301. Term of patent 3½ years.



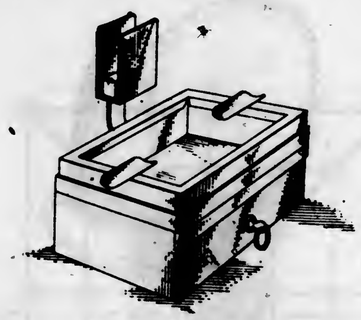
The ornamental design for an ash tray, as shown.

58,926. SMOKER'S TRAY. GUSTAVE M. MINTON, New York, N. Y. Filed Oct. 21, 1919. Serial No. 332,311. Term of patent 3½ years.



The ornamental design for a smoker's tray, as shown.

58,927. CIGARETTE-HOLDER AND ASH-TRAY. GUSTAVE M. MINTON, New York, N. Y. Filed Oct. 21, 1919. Serial No. 332,312. Term of patent 3½ years.



The ornamental design for a cigarette holder and ash tray, as shown.

58,928. EMBLEM, BADGE, OR SIMILAR ARTICLE TO BE APPLIED TO TIES, SHIRTS, AND SIMILAR ARTICLES OF WEARING-APPAREL. WILLIAM H. MOORE, Jr., Little Rock, Ark. Filed Sept. 19, 1919. Serial No. 325,026. Term of patent 7 years.



The ornamental design for an emblem, badge, or similar article to be applied to ties, shirts, and similar articles of wearing apparel, as shown.

58,929. GARMENT. FLORENCE NESMITH, Tewksbury, Mass. Filed Jan. 14, 1921. Serial No. 437,365. Term of patent 3½ years.



The ornamental design for a garment, as shown.

58,930. BATH-MITTEN. CONRAD NEUGEBAUER, Columbus, Ohio. Filed Jan. 8, 1921. Serial No. 435,994. Term of patent 14 years.



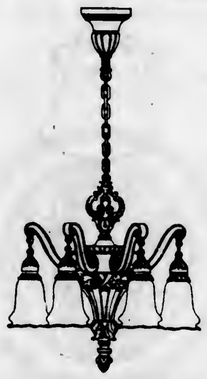
The ornamental design for a bath mitten, as shown.

58,931. CHANDELIER. ISIDOR NEWLAND, New York, N. Y., assignor to Eclipse Light Company, a Corporation of New York. Filed Dec. 24, 1920. Serial No. 433,066. Term of patent 3½ years.



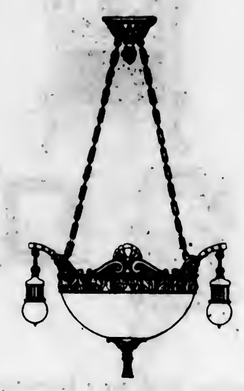
The ornamental design for a chandelier, as shown.

58,932. CHANDELIER. ISIDOR NEWLAND, New York, N. Y., assignor to Eclipse Light Company, a Corporation of New York. Filed Dec. 24, 1920. Serial No. 433,067. Term of patent 3½ years.



The ornamental design for a chandelier, as shown.

58,933. CHANDELIER. ISIDOR NEWLAND, New York, N. Y., assignor to Eclipse Light Company, a Corporation of New York. Filed Dec. 24, 1920. Serial No. 433,068. Term of patent 3½ years.



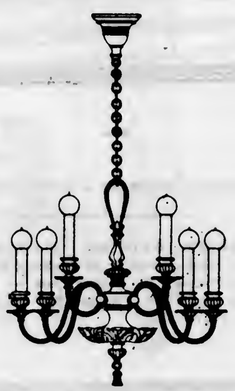
The ornamental design for a chandelier, as shown.

58,934. CHANDELIER. ISIDOR NEWLAND, New York, N. Y., assignor to Eclipse Light Company, a Corporation of New York. Filed Dec. 24, 1920. Serial No. 433,069. Term of patent 3½ years.



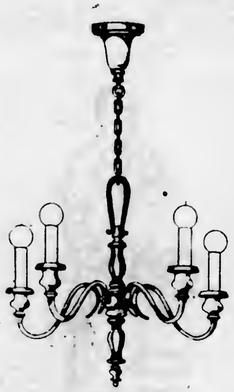
The ornamental design for a chandelier, as shown.

58,935. CHANDELIER. ISIDOR NEWLAND, New York, N. Y., assignor to Eclipse Light Company, a Corporation of New York. Filed Dec. 24, 1920. Serial No. 433,070. Term of patent 3½ years.



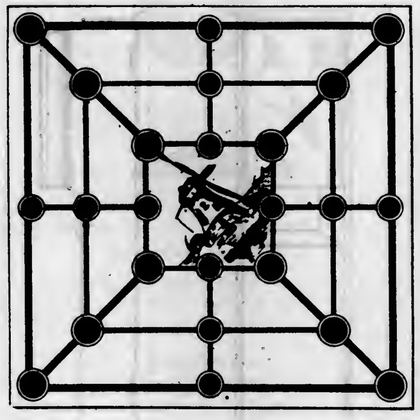
The ornamental design for a chandelier, as shown.

58,936. CHANDELIER. ISIDOR NEWLAND, New York, N. Y., assignor to Eclipse Light Company, a Corporation of New York. Filed Dec. 24, 1920. Serial No. 433,071. Term of patent 3½ years.



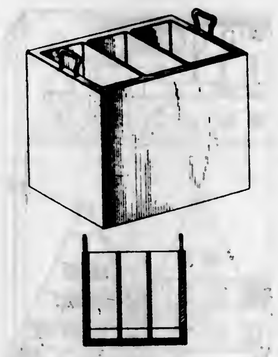
The ornamental design of a chandelier, as shown.

58,937. GAME-BOARD. ANDREW OEHMANN, Washington, D. C. Filed Oct. 25, 1920. Serial No. 419,545. Term of patent 7 years.



The ornamental design for a game board, as shown.

58,938. ELECTRIC-STORAGE-BATTERY CONTAINER. RICHARD B. OWEN, Washington, D. C. Filed Apr. 1, 1921. Serial No. 457,824. Term of patent 14 years.



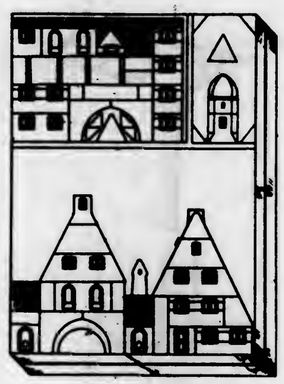
The ornamental design for an electric storage battery container substantially as shown.

58,939. PANEL FOR DENTAL APPLIANCES. OSCAR H. PIEPER and ALPHONSE F. PIEPER, Rochester, N. Y. Filed Oct. 22, 1920. Serial No. 418,834. Term of patent 14 years.



The ornamental design for a panel for dental appliances, as shown.

58,940. BOX FOR A SET OF BUILDING BLOCKS OR SIMILAR ARTICLES. BERNARD REICHENBACH, New York, N. Y. Filed Dec. 8, 1920. Serial No. 429,286. Term of patent 7 years.



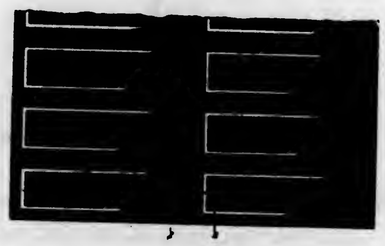
The ornamental design for a box for a set of building blocks or similar article, as shown.

58,941. RUBBER MAT. THOMAS G. RICHARDS, Brookfield, Mass., assignor to Quabaug Rubber Company, Brookfield, Mass., a Corporation of Massachusetts. Filed Oct. 23, 1919. Serial No. 332,839. Term of patent 14 years.



The ornamental design for a rubber mat, as shown.

58,942. RUBBER MATTING. THOMAS G. RICHARDS, Brookfield, Mass., assignor to Quabaug Rubber Company, Brookfield, Mass., a Corporation of Massachusetts. Filed Oct. 23, 1919. Serial No. 332,840. Term of patent 14 years.



The ornamental design for rubber matting, as shown.

58,943. STATUETTE. ANNIE RIGOTTY, Los Angeles, Calif. Filed Jan. 10, 1921. Serial No. 436,370. Term of patent 3½ years.



The ornamental design for a statuette, as shown.

58,944. COMBINED HEAD AND NECK COVERING. SAMUEL ROSENBERG, Milwaukee, Wis., assignor to Reliable Knitting Works, Milwaukee, Wis., a Corporation of Wisconsin. Filed Feb. 2, 1920. Serial No. 355,760. Term of patent 3½ years.



The ornamental design for a combined head and neck covering, as shown.

58,945. BADGE, BUTTON, PIN, BROOCH, OR EMBLEM. LEE R. SCARBOROUGH, Seminary Hill, Tex., assignor to Lloyd C. Kelly, Pineville, Ky. Filed Aug. 21, 1920. Serial No. 405,206. Term of patent 7 years.



The ornamental design for a badge, button, pin, brooch, or emblem, as shown.

58,946. FOOTREST. THEODORE P. SCHOTT, Panama City, Fla. Filed June 5, 1920. Serial No. 386,819. Term of patent 14 years.



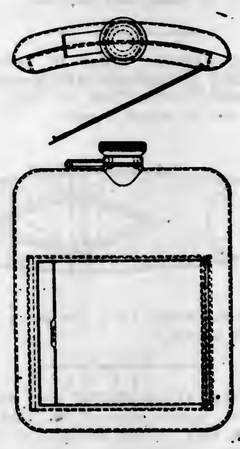
The ornamental design for a footrest as shown.

58,947. ROSETTE FOR LIGHTING-FIXTURES. JOHN WILLIAM SCHULZE, Providence, R. I., assignor to Alfred Vester Sons, Inc., Providence, R. I., a Corporation of Rhode Island. Filed Jan. 17, 1921. Serial No. 438,027. Term of patent 7 years.



The ornamental design for a rosette for lighting fixtures, as shown.

58,948. MEDICINAL CONTAINER. HARRY D. SEBRING, New York, N. Y. Filed Jan. 17, 1921. Serial No. 438,034. Term of patent 3½ years.



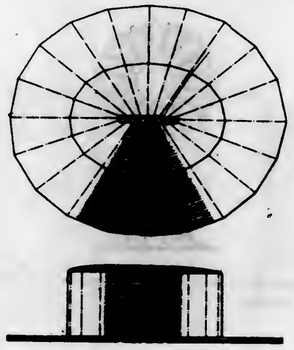
The ornamental design for a medicinal container, as shown.

58,949. BUTTON, BADGE, OR ARTICLE OF SIMILAR NATURE. IGNATIUS SMITH, New York, N. Y., assignor to Bureau of The Holy Name Society, New York, N. Y. Filed June 19, 1920. Serial No. 390,257. Term of patent 14 years.



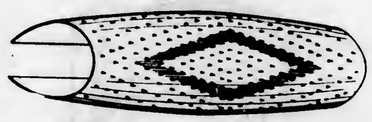
The ornamental design for a button, badge, or article of similar nature, as shown.

58,950. STRAW-WEAVE AS APPLIED TO A STRAW HAT. JACOB STEBE, Chicago, Ill. Filed Oct. 14, 1920. Serial No. 417,059. Term of patent 3½ years.



The ornamental design for a straw weave as applied to a straw hat, as shown and described.

58,951. TIRE-PATCH. EDGAR M. STEELL, Spokane, Wash., assignor to Porcupine Manufacturing Company, Spokane, Wash. Filed June 9, 1919. Serial No. 302,999. Term of patent 7 years.



The ornamental design for a tire patch, substantially as shown and described.

58,952. NIPPLE ATTACHMENT FOR AUTOMOBILE-RADIATORS. ROBERT STIRLING, Jr., East Chicago, Ind. Filed May 9, 1921. Serial No. 468,178. Term of patent 14 years.



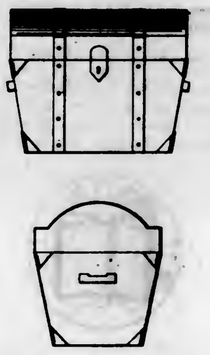
The ornamental design for a nipple attachment for automobile radiators, as shown.

58,953. TABLE. JOHN ARVID SWANSON, Omaha, Nebr. Filed Feb. 2, 1921. Serial No. 442,005. Term of patent 7 years.



The ornamental design for a table, as shown.

58,954. CANDY-BOX. BASIL M. TAIT, Denver, Colo. Filed Jan. 11, 1921. Serial No. 436,575. Term of patent 14 years.



The ornamental design for a candy box as shown.

58,955. HUMIDOR FOR CIGARS. GEORGE TEASDALE, Kansas City, Mo., assignor to Louis Lachs, Kansas City, Mo. Filed Jan. 2, 1920. Serial No. 349,068. Term of patent 3½ years.



The ornamental design for a humidor for cigars, as shown.

58,956. WEDDING-RING. CHARLES LINCOLN TROUT, New York, N. Y. Filed Mar. 11, 1921. Serial No. 451,584. Term of patent 14 years.



The ornamental design for a wedding ring as shown.

58,957. KNITTED CAP. WALLACE B. TYRRELL, Delavan, Wis., assignor to Bradley Knitting Company, Delavan, Wis., a Corporation of Wisconsin. Filed June 8, 1921. Serial No. 476,098. Term of patent 14 years.



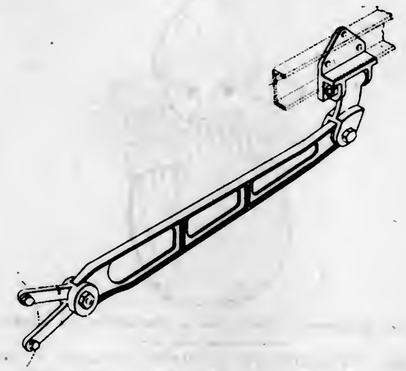
The ornamental design for a knitted cap, as shown.

58,958. FORM FOR BOW-TIES. SANDFORD R. WADDELL, Toronto, Ontario, Canada. Filed Feb. 28, 1921. Serial No. 448,614. Term of patent 14 years.



The ornamental design for a form for bow ties, as shown.

58,959. RADIUS-ROD FOR VEHICLES. LOUIS C. WENDLAND, Oakland, Calif. Filed Apr. 21, 1921. Serial No. 463,401. Term of patent 7 years.

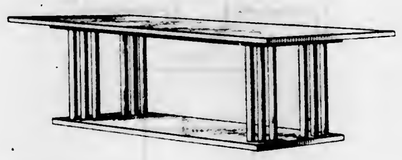


The ornamental design for a radius rod for vehicles, substantially as shown.

58,960. CHAIR. URQUHART WILCOX, Buffalo, N. Y. Filed Aug. 18, 1920. Serial No. 404,431. Term of patent 3½ years.

The ornamental design for a chair, as shown.

58,961. TABLE. URQUHART WILCOX, Buffalo, N. Y. Filed Aug. 18, 1920. Serial No. 404,433. Term of patent 3½ years.



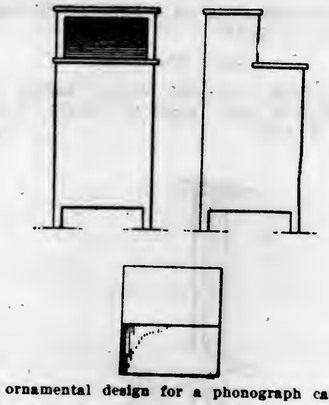
The ornamental design for a table, as shown.

58,962. PINCUSHION. MAX J. WILLMANN, Milwaukee, Wis. Filed Mar. 14, 1921. Serial No. 452,813. Term of patent 3½ years.



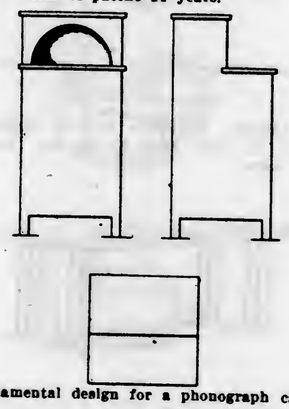
The ornamental design for a pincushion, as shown.

58,963. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 1, 1921. Serial No. 457,816. Term of patent 14 years.



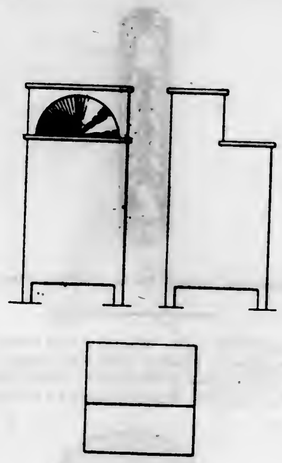
The ornamental design for a phonograph cabinet, as shown.

58,964. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 1, 1921. Serial No. 457,817. Term of patent 14 years.



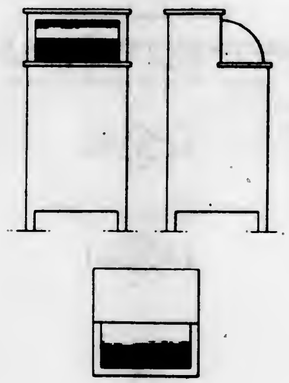
The ornamental design for a phonograph cabinet, as shown.

58,965. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 1, 1921. Serial No. 457,818. Term of patent 14 years.



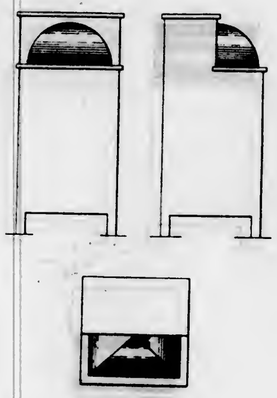
The ornamental design for a phonograph cabinet, as shown.

58,966. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 1, 1921. Serial No. 457,819. Term of patent 14 years.



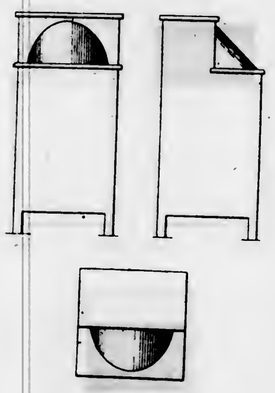
The ornamental design for a phonograph cabinet as shown.

58,967. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 1, 1921. Serial No. 457,820. Term of patent 14 years.



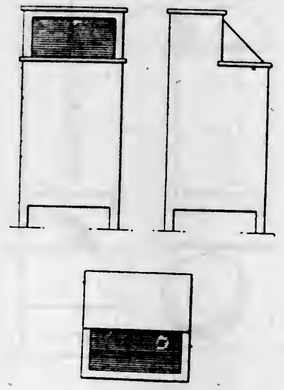
The ornamental design for a phonograph cabinet, as shown.

58,968. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 1, 1921. Serial No. 457,821. Term of patent 14 years.



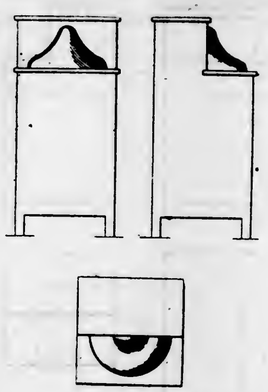
The ornamental design for a phonograph cabinet, as shown.

58,969. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 1, 1921. Serial No. 457,822. Term of patent 14 years.



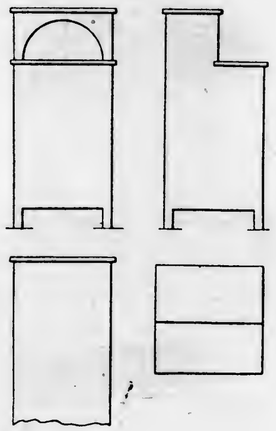
The ornamental design for a phonograph cabinet, as shown.

58,970. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 1, 1921. Serial No. 457,823. Term of patent 14 years.



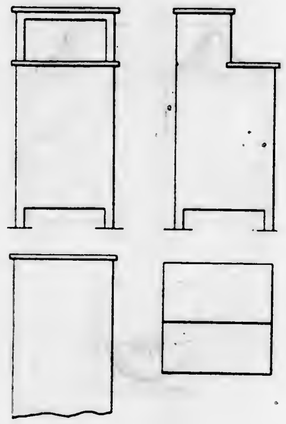
The ornamental design for a phonograph cabinet, as shown.

58,971. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 4, 1921. Serial No. 458,542. Term of patent 14 years.



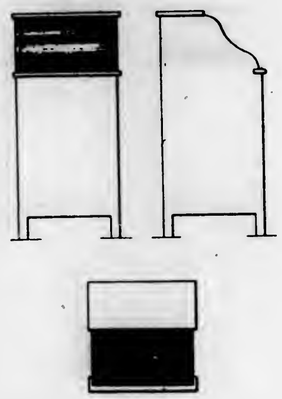
The ornamental design for a phonograph cabinet, shown.

58,972. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 4, 1921. Serial No. 458,543. Term of patent 14 years.



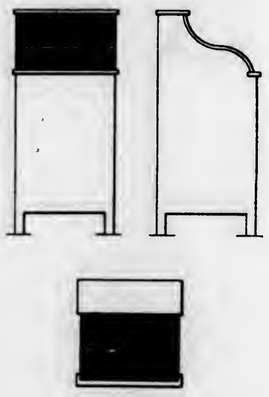
The ornamental design for a phonograph cabinet, as shown.

58,973. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 6, 1921. Serial No. 459,148. Term of patent 14 years.



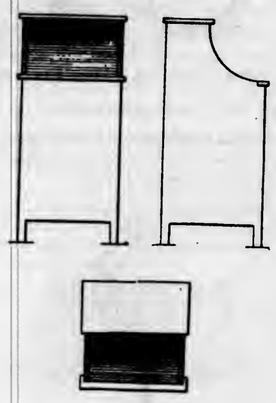
The ornamental design for a phonograph cabinet, as shown.

58,974. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 6, 1921. Serial No. 459,149. Term of patent 14 years.



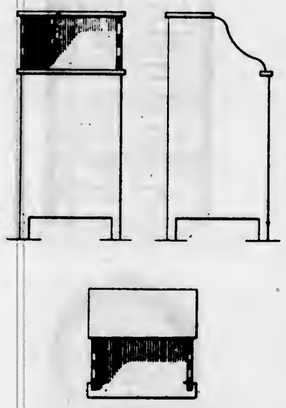
The ornamental design for a phonograph cabinet, as shown.

58,975. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 6, 1921. Serial No. 459,150. Term of patent 14 years.



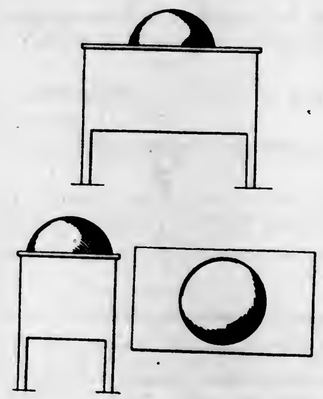
The ornamental design for a phonograph cabinet, as shown.

58,976. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 6, 1921. Serial No. 459,151. Term of patent 14 years.



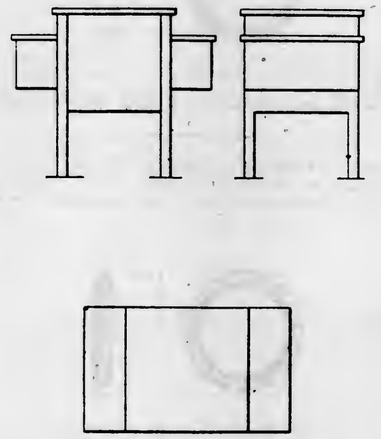
The ornamental design for a phonograph cabinet, as shown.

58,977. PHONOGRAPH-CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 6, 1921. Serial No. 459,152. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

58,978. PHONOGRAPH - CABINET. CHARLES T. WITTSTEIN, Newark, N. J. Filed Apr. 6, 1921. Serial No. 459,153. Term of patent 14 years.



The ornamental design for a phonograph cabinet, as shown.

58,979. FINGER-RING. FRANCIS H. WITTSTEIN, Newark, N. J. Filed Jan. 6, 1921. Serial No. 435,522. Term of patent 7 years.



The ornamental design for a finger ring, as shown.

58,980. FINGER-RING. FRANCIS H. WITTSTEIN, Newark, N. J. Filed Jan. 6, 1921. Serial No. 435,523. Term of patent 7 years.



The ornamental design for a finger ring, as shown.

58,981. FINGER-RING, BRACELET, OR THE LIKE. FRANCIS H. WITTSTEIN, Newark, N. J. Filed Feb. 18, 1921. Serial No. 446,178. Term of patent 7 years.



The ornamental design for a finger ring, bracelet or the like, as shown.

58,982. FINGER-RING, BRACELET, OR THE LIKE. FRANCIS H. WITTSTEIN, Newark, N. J. Filed Feb. 18, 1921. Serial No. 446,179. Term of patent 7 years.



The ornamental design for a finger ring, bracelet, or the like, as shown.

58,983. DISPLAY-STAND. ANNIE WOOD, Winnipeg, Manitoba, Canada. Filed Nov. 19, 1920. Serial No. 425,274. Term of patent 7 years.



The ornamental design for a display stand as shown.

58,984. TIRE-TREAD. HELEN S. YOST, Batavia, N. Y., assignor to Batavia Rubber Company, Batavia, N. Y. Filed Oct. 16, 1920. Serial No. 417,496. Term of patent 7 years.



The ornamental design for a tire tread, substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 6, 1921.

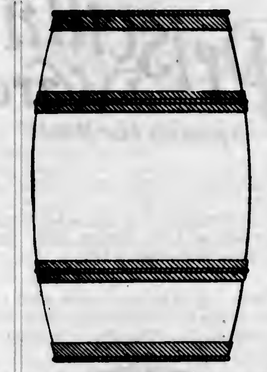
[PUBLISHED SEPTEMBER 21, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 98,908. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) THE NEVERSLIP MANF. CO., New Brunswick, N. J. Filed Oct. 26, 1916.

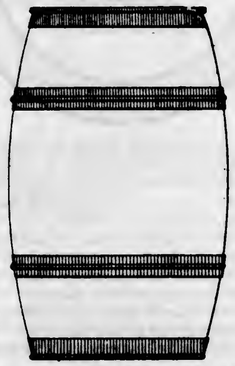


Consisting of bands of red color around the barrels or kegs containing the goods. Applicant disclaims the representation of a barrel or container apart from the mark shown.

Particular description of goods.—Horseshoes and Horseshoe-Calks.

Claims use since July 1, 1916.

Ser. No. 98,918. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKET-BOOKS.) BRYDEN HORSE SHOE CO., Catasaqua, Pa. Filed Oct. 27, 1916.

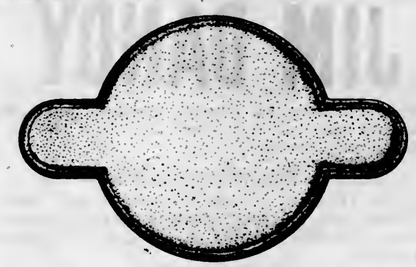


Consisting of bands of green color around the barrels or kegs containing the goods. Applicant disclaims the representation of a barrel or container apart from the mark shown.

Particular description of goods.—Horseshoes and Horseshoe-Calks.

Claims use since July 1, 1916.

Ser. No. 116,463. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Mar. 11, 1919.



Particular description of goods.—Rubber Belting.

Claims use since Aug. 1, 1913.

Ser. No. 121,583. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GIFFORD-WOOD COMPANY, Hudson, N. Y. Filed Aug. 12, 1919.

GOODWORTH

Particular description of goods.—Rubber, Canvas, and Leather Conveyer-Belting.

Claims use since July 24, 1919.

Ser. No. 121,584. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GIFFORD-WOOD COMPANY, Hudson, N. Y. Filed Aug. 12, 1919.

DURALIFE

Particular description of goods.—Rubber, Canvas, and Leather Conveyer-Belting.

Claims use since July 24, 1919.

Ser. No. 125,245. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE RADIOR CO. LTD. OF LONDON, New York, N. Y. Filed Nov. 24, 1919.

Radior

Particular description of goods.—Skin-Soap.
Claims use since November, 1913.

Ser. No. 127,367. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LUCIOUS I. GORDON, Mobile, Ala. Filed Jan. 20, 1920.

SQUARE-DEAL

Particular description of goods.—Furniture-Polish other Than Varnish.
Claims use since Apr. 3, 1919.

Ser. No. 128,281. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SCHEFFER & ROSSUM CO., St. Paul, Minn. Filed Feb. 11, 1920.

JIM DANDY

Particular description of goods—Stationary Vulcanising Plants for Repairing Automobile-Tires.
Claims use since Nov. 1, 1916.

Ser. No. 128,294. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN RATCLIFFE BRIMBLEY, Brooklyn, N. Y. Filed Feb. 12, 1920.

ARGENTACOL

Particular description of goods.—Chemical Compound for Treating the Nasal Cavities and Throat Internally and Externally.
Claims use since Oct. 31, 1919.

Ser. No. 128,916. (CLASS 12. CONSTRUCTION MATERIALS.) CEMENT GUN CONSTRUCTION COMPANY, Chicago, Ill. Filed Feb. 26, 1920.

GUNCRETE

Particular description of goods.—Cement, Mortar, Concrete, Reinforced Concrete, Walls, Floors, Cement and Concrete Applied to Walls and Floors, Building-Block, Chimneys, Cornices and Moldings, Interior Partitions, Window and Door Sills, Concrete Slabs, and Pipe, Cement Work Incasing Steel Girders and Bridges, Roofing-Slabs, Coal-Bunker Linings, Stucco Applied to Brick, Tile, Lath, and other Wall-Surfaces, and Linings for Cellars, Tunnels, and Mine-Shafts.
Claims use since about September, 1914.

Ser. No. 129,574. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SEVEN OILS COMPANY, Boston, Mass. Filed Mar. 11, 1920.

SEV-O

Particular description of goods.—Medicated Candy Tablets for the Treatment of Throat Irritations.
Claims use since Oct. 20, 1919.

Ser. No. 129,728. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) LEYSE ALUMINUM COMPANY, Kewaunee, Wis. Filed Mar. 15, 1920.

Priscilla Ware
Speaks for itself

No claim being made for the word "Ware" apart from the mark shown in the drawing.
Particular description of goods.—Aluminum Cooking Utensils Consisting of Pots, Kettles, Pans, and Plates.
Claims use since September, 1919.

Ser. No. 129,955. (CLASS 15. OILS AND GREASES.) THE TEXAS COMPANY, Houston and Port Arthur, Tex., and New York, N. Y. Filed Mar. 19, 1920.



The star and the circular border being in red and the "T" in green.
Particular description of goods.—Petroleum, Asphalt Oils, (Distilled Crude Petroleum-Oils for Lubricating Purposes,) Benzin, Burning-Oils, Cutting-Oils, Cylinder-Oils; Crude Petroleum Products—viz., Cup-Grease, Fuel-Oils, a Distillate of Crude Petroleum, and Crude Oil from Which Most Volatile Hydrocarbons Have Been Removed for Use in Internal-Combustion Engines; Gas-Oils, Gasolene, Lubricating-Greases, Kerosene, Naphtha, Petrol, Illuminating-Oils, Lubricating-Oils, Road-Oils, Solar Oils, (a Petroleum Distillate for Lubricating Purposes,) and Paraffin.
Claims use since 1909.

Ser. No. 130,424. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAPPIN & WEBB LIMITED, London, England. Filed Mar. 31, 1920.



Particular description of goods.—Pocket-Knives, and Forks, Scissors, Razors, Safety-Razors, and Electroplated Fish-Eaters, Fish-Carvers, Table-Knives, Table-Forks, Dessert-Knives, Dessert-Forks, Tea-Knives, Fruit-Knives, Nutcrackers, Salad-Servers, and Pastry-Forks, All Made of Base Metal.
Claims use since 1835.

Ser. No. 130,425. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MAPPIN & WEBB LIMITED, London, England. Filed Mar. 31, 1920.

M
TRUSTWORTHY

Applicant disclaims the word "Trustworthy" apart from the mark shown herein.
Particular description of goods.—Cutlery, and Particularly Pocket Knives and Forks, Scissors, Razors, Safety-Razors, and Fish-Eaters, Fish-Carvers, Table-Knives and Table-Forks, Dessert-Knives, Dessert-Forks, Tea-Knives, Fruit-Knives, Nutcrackers, Salad-Servers, and Pastry-Forks, All Made of Base Metal.
Claims use since 1860.

Ser. No. 132,835. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAM B. ARWOOD, Preacher, Va. Filed May 24, 1920.

Sam B Arwood

Consisting of applicant's surname in his own handwriting.
Particular description of goods.—Medicinal Treatment of Gonorrhea, Medicinal Syphilitic Treatment, Blood Medicine, General Tonic, Medicinal Tuberculosis Treatment.
Claims use since Aug. 30, 1918.

Ser. No. 133,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NISSLEY CREAMERY COMPANY, Fort Worth, Tex. Filed June 9, 1920.

Mistletoe

Consists of the word "Mistletoe" shaded for red with a green border shade, and the sprig of mistletoe shaded for green.
Particular description of goods.—Sweet Milk in Bottles and in Bulk, Buttermilk in Bottles and in Bulk, Ice-Cream, Powdered Milk, Sweet Cream, Cheese, and Condensed Milk.
Claims use since Feb. 18, 1920.

Ser. No. 133,806. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed June 16, 1920.

ROYAL

Particular description of goods.—Golf-Balls.
Claims use since Apr. 1, 1920.

Ser. No. 134,231. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ATLAS SPECIALTY COMPANY, INC., Richmond, Va. Filed June 26, 1920.



Particular description of goods.—Table-Syrup and Molasses.
Claims use since Jan. 6, 1910.

Ser. No. 134,241. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DOSS RUBBER & TUBE CO., INC., Atlanta, Ga. Filed June 26, 1920.

A Mileage Masterpiece

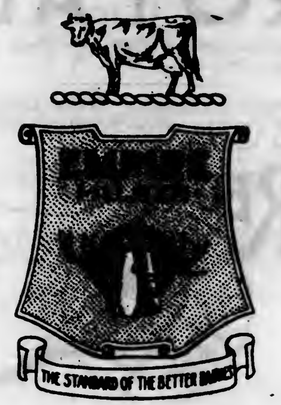
Particular description of goods.—Rubber Tires.
Claims use since Dec. 16, 1919.

Ser. No. 134,359. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EMPIRE CREAM SEPARATOR COMPANY, Bloomfield, N. J. Filed June 29, 1920.



No registration rights are claimed for the words "The Separator with the Million Dollar Bowl" or for the representations of the separator and bowl appearing in the mark apart from the mark shown in the drawing.
Particular description of goods.—Centrifugal Separators.
Claims use since about Apr. 10, 1920.

Ser. No. 134,360. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) EMPIRE CREAM SEPARATOR COMPANY, Bloomfield, N. J. Filed June 29, 1920.



No registration rights are claimed for the words "Milker" and "The Standard of the Better Dairies" or for the representation of the milker appearing in the mark apart from the mark shown in the drawing.

Particular description of goods.—Milking-Machines and Parts Thereof, and Milking-Machine Systems and Parts Thereof.

Claims use since about May 25, 1920.

Ser. No. 134,368. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LE ROY J. JOHNSON, Logansport, Ind. Filed June 29, 1920.

Uncle Roy's
MORNING GLORY

Particular description of goods.—Bread.

Claims use since Jan. 1, 1919.

Ser. No. 134,660. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SCRANTON SILK MACHINE COMPANY, Scranton, Pa. Filed July 7, 1920.

LEWIS

Particular description of goods.—Machinery Used in the Preparation and Treatment of Silk and Silk Manufactures.

Claims use since Feb. 1, 1920.

Ser. No. 135,404. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BRIEN MANUFACTURING CO., Oakland, Calif. Filed July 26, 1920.

Mission
Bungalow Cloths



No claim is made to the word "Clothes" apart from the mark shown on the drawing.

Particular description of goods.—Table-Cloths and Napkins.

Claims use since June 8, 1920.

Ser. No. 135,527. (CLASS 2. RECEPTACLES.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed July 28, 1920.

LA COQUETTE

Particular description of goods.—Hair-Receivers, Bottle-Holders, Salve-Jars, Pin-Boxes, and Pin-Trays.

Claims use since June 1, 1918.

Ser. No. 136,320. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ASAHEL WHEELER COMPANY, Boston, Mass. Filed Aug. 20, 1920.



Particular description of goods.—Ready-Mixed Paints and Varnishes.

Claims use since January, 1904.

Ser. No. 136,534. (CLASS 10. FERTILIZERS.) STIM-U-PLANT TABLET CO., Newark, N. J., assignors to Francis L. Pruyn, New York, N. Y., and John B. Goldsborough, Croton-on-the-Hudson, N. Y. Filed Aug. 26, 1920.

STIM-U-PLANT
PLANT STIMULANT TABLET

No claim being made to the representation of the goods or to the words "Plant Stimulant Tablet" apart from the mark shown in the drawing.

Particular description of goods.—Plant Food in Tablet Form.

Claims use since Dec. 10, 1919.

Ser. No. 136,989. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SAUL MAGNUS & HENRY G. MOSLER, Los Angeles, Calif. Filed Sept. 9, 1920.

Paulais

Particular description of goods.—Food Syrups; Candies; Nuts, Plain, Salted and Candied; Fruits, Fresh, Candied and Preserved; Cakes; Breads; Pastries; Mincemeat; Gum; Coffee; Tea; Cocoa; Chocolate, Drinking and Cooking.

Claims use since on or about July 24, 1920.

Ser. No. 137,695. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) ADAMS-MORGAN COMPANY, Montclair, N. J. Filed Sept. 28, 1920.

PARAGON

Particular description of goods.—Radio Apparatus, Comprising Rheostats, Regenerative Receivers, Vacuum-Tube Controls, Receiving-Transformers, Variable Inductors, Loading Coils and Receivers.

Claims use since the summer of 1915.

Ser. No. 138,610. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE O. WOODS, Fargo, N. D. Filed Oct. 20, 1920.



Particular description of goods.—Table Game.

Claims use since Sept. 25, 1920.

Ser. No. 138,774. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MINERVA, SOCIEDAD ANÓNIMA, Malaga, Spain. Filed Oct. 25, 1920.

FIAT

Particular description of goods.—Alimentary Oils.

Claims use since January, 1919.

Ser. No. 138,860. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOMO CHEMICAL COMPANY, Philadelphia, Pa. Filed Oct. 27, 1920.



No claim being made to the words "Fly Liquid" as illustrated in the drawing as a part of the trade-mark.

Particular description of goods.—Fly Liquids.

Claims use since June, 1912.

Ser. No. 139,012. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) LUCIUS ANTON SMITH, Buffalo, N. Y. Filed Oct. 30, 1920.

THE UNCLE SAM TRUSS

No claim being made to the word "Truss."

Particular description of goods.—Trusses.

Claims use since Sept. 20, 1920.

Ser. No. 139,041. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MELCHIOR SUPPLY CO., Chicago, Ill. Filed Nov. 1, 1920.



The pillow and crown is disclaimed apart from the mark.

Particular description of goods.—Hair-Tonics and Hair-Dressings.

Claims use since on or about July 1, 1920.

Ser. No. 139,233. (CLASS 32. FURNITURE AND UPHOLSTERY.) SOUTHERN SPRING BED CO., Atlanta, Ga. Filed Nov. 5, 1920.



Particular description of goods.—Mattresses, Iron and Brass Beds, and Bed-Springs.

Claims use since Sept. 1, 1920.

Ser. No. 139,275. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HOMESTEAD GROWERS' ASSN., Homestead, Fla. Filed Nov. 6, 1920.



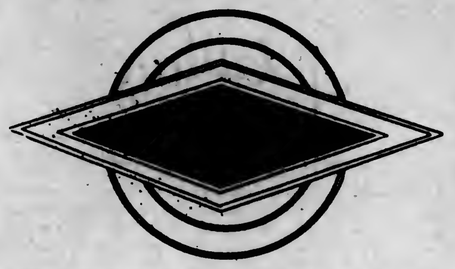
Particular description of goods.—Fresh Tomatoes.
Claims use since Sept. 10, 1919.

Ser. No. 139,319. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STAR MILLING COMPANY, Statesville, N. C. Filed Nov. 6, 1920.



The lining of the drawing indicates shading. No claim is made for the word "Carolina" apart from the mark shown.
Particular description of goods.—Self-Rising Wheat-Flour.
Claims use since Jan. 1, 1917.

Ser. No. 139,472. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LUCY PENROSE, Brooklyn, N. Y. Filed Nov. 10, 1920.



Particular description of goods.—Packing Made of Asbestos, Cotton, Duck, Flax, Hemp, Jute, and Rubber.
Claims use since Jan. 1, 1884.

Ser. No. 139,588. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Nov. 12, 1920.

Duro-Belle

Particular description of goods.—Hair-Nets.
Claims use since Sept. 1, 1920.

Ser. No. 140,511. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Dec. 1, 1920.

Four O'Clock

Particular description of goods.—Bread.
Claims use since Nov. 18, 1920.

Ser. No. 140,591. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) GULBRANSEN-DICKINSON COMPANY, Chicago, Ill. Filed Dec. 4, 1920.

SUBURBAN MODEL

No claim is made to the word "Model" apart from the mark shown in the drawing.
Particular description of goods.—Player-Pianos.
Claims use since Aug. 1, 1918.

Ser. No. 140,618. (CLASS 2. RECEPTACLES.) SHALITA BROS., New York, N. Y. Filed Dec. 4, 1920.

TRIPLTITE

Particular description of goods.—Sheet-Metal Cans and Pails.
Claims use since Nov. 28, 1916.

Ser. No. 140,622. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) VULCAN MOTOR AXLE CORPORATION, Detroit, Mich. Filed Dec. 4, 1920.

VULCAN

Particular description of goods.—Axles for Pleasure-Automobiles and Automobile Trucks.
Claims use since July 28, 1920.

Ser. No. 140,646. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY F. HAYDEN, Washington, D. C. Filed Dec. 6, 1920.



Particular description of goods.—Vegetable Liquid Boiler Compound and Also Antifreezing Compound.
Claims use since Nov. 20, 1920.

Ser. No. 140,870. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN DUNN, SON & CO., New York, N. Y. Filed Dec. 10, 1920.



GUANACO

Consists of the word "Guanaco" and a picture of the animal.
Particular description of goods.—Painters' Materials—Namely, Ready-Mixed Paints and Varnish Paint Enamels.
Claims use since January, 1879.

Ser. No. 141,423. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JONESEEZ MANUFACTURING CO., Berkeley, Calif. Filed Dec. 22, 1920.

JONESEEZ

Particular description of goods.—Flat Wood Toy Figures Depicting Human Beings and Animals.
Claims use since Dec. 8, 1920.

Ser. No. 141,806. (CLASS 12. CONSTRUCTION MATERIALS.) RAYMOND GRANITE COMPANY, San Francisco and Los Angeles, Calif. Filed Jan. 3, 1921. Under ten-year proviso.

RAYMOND

Particular description of goods.—Construction Materials—Namely, Interior and Exterior Building-Stone, Street-Curbing, and Cemetery-Coping.
Claims use since 1892.

Ser. No. 141,882. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. H. RICHARDSON, Baltimore, Md. Filed Jan. 5, 1921.



No claim is made to the words "Blood Remedy" apart from the mark shown.
Particular description of goods.—A Medicinal Preparation for Impure Blood, Rheumatism, Liver, Kidney, Scrofula, Dyspepsia, Headache, Sour Stomach, Loss of Appetite, Neuralgia, Female Disorders, Coughs, Indigestion, and Diseases of the Stomach.
Claims use since Jan. 27, 1920.

Ser. No. 142,004. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BLARETTE MANUFACTURING CO., Los Angeles, Calif. Filed Jan. 10, 1921.

BLARETTE

Particular description of goods.—Electrical Devices Comprising Gasifiers Adapted to be Positioned Between Carbureters and Internal-Combustion Engines to Generate Hot Vapor and Deliver the Same into the Carbureted Vapor When Passing from the Said Carbureter to the Engine, and Spark-Plugs.
Claims use since Sept. 16, 1920.

Ser. No. 142,208. (CLASS 2. RECEPTACLES.) THE FAIRBANKS CO., New York, N. Y. Filed Jan. 13, 1921.



Consisting of the word "Fairbanks" in white upon an octagonal blue ground underscored by a white line and the letters "O K" upon a white octagonal panel outlined in blue and located in the blue octagonal panel behind the word "Fairbanks."

Particular description of goods.—Mill-Baskets, Oil-Cabinets, Tool-Chests, Hose-Reels, and Gasolene, Oil, and Storage Tanks.

Claims use since July 10, 1919.

Ser. No. 142,244. (CLASS 2. RECEPTACLES.) BEMIS BRO. BAG CO., St. Louis, Mo. Filed Jan. 14, 1921.

"ECONOMY"

Particular description of goods.—Parcel-Post Mailing-Envelops.

Claims use since about Jan. 1, 1911.

Ser. No. 142,250. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE FAIRBANKS CO., New York, N. Y. Filed Jan. 14, 1921.



Consisting of the word "Fairbanks" in white upon an octagonal blue ground underscored by a white line and the letters "O K" upon a white octagonal panel outlined in blue and located in the blue octagonal panel behind the word "Fairbanks."

Particular description of goods.—Detachable Link Belts, Detachable-Link-Belt Attachment-Links, Ley Bushed Chains, Riveted Drive Transfer-Chains, Fusible Boiler-Plugs, Screw-Anchors, Bibs, Cellar-Drainers, Dippers, Belt-Fasteners, Funnels; Gongs, (Not Electric;) Pipe-Hangers, Hinge-Hasps, Hinges, Jacketed Melting-Kettles, Metal Letters, Connecting-Links, Hose-Nozzles, Metal Pipe, Expansion-Bolt Shields, Drawer-Slides; Strainers, (Ordinary;) Box-Strapping, Steam-Traps, Metal Candy-Trays, Metal Tubing and Turnbuckles.

Claims use since July 10, 1919.

Ser. No. 142,381. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ALINALL MFG. CO., Worcester, Mass. Filed Jan. 18, 1921.

CRAFTEX

Particular description of goods.—Interior Warm-Water or Oil Wall-Finish.

Claims use since Jan. 1, 1915.

Ser. No. 142,422. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) SAN ANTONIO DRUG CO., San Antonio, Tex. Filed Jan. 18, 1921.



Particular description of goods.—Baseballs.

Claims use since Aug. 1, 1919.

Ser. No. 142,446. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) LEE TIRE & RUBBER CO., Whitemarsh township, Montgomery county, Pa. Filed Jan. 19, 1921.



Particular description of goods.—Pneumatic Rubber Tires.

Claims use since Jan. 1, 1921.

Ser. No. 142,536. (CLASS 2. RECEPTACLES.) THE STATE LEAF TOBACCO CO., New York, N. Y. Filed Jan. 20, 1921.



Particular description of goods.—Cigar-Boxes.

Claims use since Oct. 1, 1920.

Ser. No. 142,538. (CLASS 38. PRINTS AND PUBLICATIONS.) SHAPIRO, BERNSTEIN & CO., INC., New York, N. Y. Filed Jan. 20, 1921.



Particular description of goods.—Printed Musical Compositions.

Claims use since 1913.

Ser. No. 142,687. (CLASS 2. RECEPTACLES.) BLAKE, MCFALL COMPANY, Portland, Oreg. Filed Jan. 24, 1921.

BRONCHO

Particular description of goods.—Paper Bags.

Claims use since June, 1909.

Ser. No. 142,695. (CLASS 2. RECEPTACLES.) CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed Jan. 24, 1921.



Particular description of goods.—Paper Bags.

Claims use since Dec. 21, 1908.

Ser. No. 143,512. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES A. OWEN, Meadville, Pa. Filed Feb. 12, 1921.

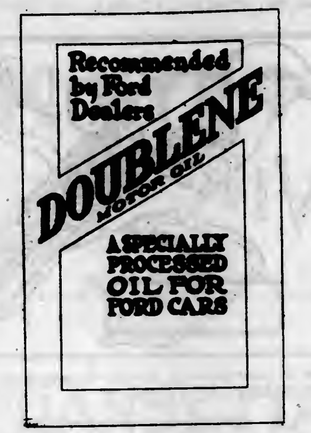


No claim is made for the words: "Registered, Trade Mark."

Particular description of goods.—Malted Milk and Malted Milk Chocolate.

Claims use since Jan. 17, 1921.

Ser. No. 143,636. (CLASS 15. OILS AND GREASES.) DOUBLENE OIL CO., Chicago, Ill. Filed Feb. 16, 1921.



Consisting of the word "Doublene." No claim is made to the exclusive use of the words "Recommended by Ford Dealers," "Motor Oil," and "A Specially Processed Oil for Ford Cars," apart from the mark shown on the drawing.

Particular description of goods.—Lubricating-Oils.

Claims use since Aug. 1, 1920.

Ser. No. 143,645. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) B. M. JOHNSON MANUFACTURING CO., Jackson, Tenn. Filed Feb. 16, 1921.

BENEFACTOR

Particular description of goods.—Headache-Tablets, Quinin Sulfate, Godfrey's Cordial, a Combination of Calomel and Soda, Compound Cathartic Pills, Quinin-Sulfate Tablets, Liver Pills, a Mild Laxative in Wafer Form, Uterine Tonic, Aspirin, Spirits of Camphor, Tincture of Iron, Sweet Spirits of Niter, Sweet Oil, Aromatic Castor-Oil, Acetanilid Compound, Paregoric, Tincture of Iodin, Tincture of Arnica, Carbolated Petroleum Jelly, White Petroleum Jelly, Bateman's Drops, Pure Cold-Pressed Castor-Oil, Carbolic Acid, Witch-Hazel, Bay-Rum, Copperas, Alum, Sulfur, Borax, Saltpeter, Bluestone, Epsom Salts, Moth-Balls, Complexion-Powder, Talcum Powder, Dental Cream, Liquid Shampoo, Hair-Tonic, Cold-Cream, Massage-Cream, Rouge, Perfume, Florida Water, Plain Petroleum Jelly, Red Petroleum Jelly, Camphorated Petroleum Jelly, Perfumed Petroleum Jelly, Glycerin, and a Preparation for Removing Curl from Hair.

Claims use since Dec. 26, 1919.

Ser. No. 143,670. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) E. STEBBINS MANUFACTURING COMPANY, Springfield, Mass. Filed Feb. 16, 1921.

OKAY

Particular description of goods.—Faucets, Cocks, and Bibs.

Claims use since about Jan. 1, 1918.

Ser. No. 143,713. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) PINCUS SELDITCH, Philadelphia, Pa. Filed Feb. 17, 1921.



Particular description of goods.—Phonographs.
Claims use since Dec. 1, 1918.

Ser. No. 143,725. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WARREN F. WITMAN, Philadelphia, Pa. Filed Feb. 17, 1921.

Painfully Yours

Particular description of goods.—Dry and Ready-Mixed Paints.
Claims use since 1914.

Ser. No. 143,787. (CLASS 48. MALT BEVERAGES, EXTRACTS, AND LIQUORS.) ADAM SCHMIDT BREWING CO., Norristown, Pa. Filed Feb. 18, 1921.

Valley Forge Special

No claim being made to the word "Special."
Particular description of goods.—Malt Extract.
Claims use since Dec. 15, 1920.

Ser. No. 143,866. (CLASS 46. FOODS AND INGREDIENTS OF GOODS.) THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo. Filed Feb. 21, 1921.

CONSERVATION

Particular description of goods.—Mixed Wheat and Corn Flour.
Claims use since Dec. 1, 1917.

Ser. No. 143,873. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALTON N. MOORE DRY GOODS CO., San Francisco, Calif. Filed Feb. 21, 1921.

Schoolday

Particular description of goods.—Woven Romper-Cloths, Piece Goods.
Claims use since 1915.

Ser. No. 143,909. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) GEORGE BORGFELDT & Co., New York, N. Y. Filed Feb. 23, 1921.



Particular description of goods.—Bisque-Headed Dolls.
Claims use since February, 1907.

Ser. No. 143,929. (CLASS 32. FURNITURE AND UPHOLSTERY.) S. KARPEN & BROS., Chicago, Ill. Filed Feb. 23, 1921.

Super-down

No claim is made to the exclusive right to the word "Down" apart from the mark substantially as shown.
Particular description of goods.—Upholstered Davenports, Sofas, Settees, Arm-Chairs, Rockers, and Side Chairs.
Claims use since about Jan. 3, 1921.

Ser. No. 143,931. (CLASS 10. FERTILIZERS.) LAKELAND PHOSPHATE & FERTILIZER COMPANY, Wilmington, Del., and Lakeland, Fla. Filed Feb. 23, 1921.



The words "Soft-Phosphate" and "Lakeland, Florida," are hereby disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Fertilizers, Soft Phosphates, and other Fertilizer Products.
Claims use since July 1, 1920.

Ser. No. 144,198. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE NOVELTY PRODUCTS COMPANY, Berkeley, Calif. Filed Mar. 1, 1921.

HOBBY TOT

Particular description of goods.—Two, Three, or Four Wheeled Toy Coaster.
Claims use since Jan. 18, 1921.

Ser. No. 144,207. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CHARLES H. THOM, Los Angeles, Calif. Filed Mar. 1, 1921.

INDIAN CLUB

Particular description of goods.—Bottled Ginger-Ale, a Carbonated Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since January, 1921.

Ser. No. 144,301. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JNO. J. STOCK, Erdenheim, Pa. Filed Mar. 3, 1921.

THE GADABOUT

Consisting of the words "The Gadabout."
Particular description of goods.—Trackless Trolley Amusement-Vehicle.
Claims use since Feb. 19, 1921.

Ser. No. 144,352. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LEWIS J. ROSEE, Minneapolis, Minn. Filed Mar. 5, 1921.



Particular description of goods.—Baseball-Game Ball Similar to an Indoor Baseball or Playground-Ball.
Claims use since June, 1906.

Ser. No. 144,353. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LEWIS J. ROSEE, Minneapolis, Minn. Filed Mar. 5, 1921.

KITTEN

Particular description of goods.—Baseball-Game Ball Similar to an Indoor Baseball or Playground-Ball.
Claims use since June, 1906.

Ser. No. 144,485. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRU-BLU BISCUIT COMPANY, Spokane, Wash. Filed Mar. 8, 1921.

"FRANSETTA"

Particular description of goods.—Biscuit and Bakery Products—Namely, Cookies and Sweet Biscuit.
Claims use since July 21, 1919.

Ser. No. 144,487. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TRU-BLU BISCUIT CO., Spokane, Wash. Filed Mar. 8, 1921.

"SCOTINA"

Particular description of goods.—Biscuit, Cakes, and Bakery Products—Namely, Cookies and Sweet Biscuit.
Claims use since July 17, 1919.

Ser. No. 144,666. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) CORONA BRAID WORKS, Corona, N. Y. Filed Mar. 12, 1921.

Mignon

Particular description of goods.—Mercerized, Cotton, Silk, and Unfilled Silk Soutache; Silk, Mercerized, Cotton and Silk Shell-Braids.
Claims use since Feb. 1, 1921.

Ser. No. 144,681. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) NUPOINT MFG. CO., Chicago, Ill. Filed Mar. 12, 1921.

NUPOINT
THE TEN TIME NEEDLE

No claim is made to the words "The Ten Time Needle" apart from the mark shown in the drawing.

Particular description of goods.—Phonograph-Needles.
Claims use since Dec. 13, 1920.

Ser. No. 145,023. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LEVIN STORE CO., Lindsborg, Kans. Filed Mar. 21, 1921.

THOR

Particular description of goods.—Roasted Coffee.
Claims use since Jan. 15, 1921.

Ser. No. 145,030. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE MILLER & HADLEY COMPANY, Toledo, Ohio. Filed Mar. 21, 1921.

PURITY

Particular description of goods.—Cotton Sheeting, Sheets, and Pillow-Cases.
Claims use since December, 1920.

Ser. No. 145,053. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE ATLANTIC MACARONI CO. INC., Long Island City, N. Y. Filed Mar. 22, 1921.



No claim is made to the following words: "Sublime Quality Macaroni, The Acme of Perfection, Brand, Manufactured by, Long Island City, N. Y." The present trademark has associated therewith and therefore includes the exclusive use of a photograph of Enrico Caruso, and his name in signature form with the mark shown.

Particular description of goods.—Macaroni.
Claims use since May 25, 1920.

Ser. No. 145,069. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE C. M. KOPP COMPANY, Yakima, Wash. Filed Mar. 22, 1921.



Particular description of goods.—Fresh Onions.
Claims use since Aug. 28, 1919.

Ser. No. 145,089. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) SONORA, INC., New York, N. Y. Filed Mar. 22, 1921.

ETUDE

Particular description of goods.—Talking-Machines, Phonographs, and Music-Boxes.
Claims use since about November, 1920.

Ser. No. 145,109. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) INTERNATIONAL TOY MANUFACTURING CO., Seattle, Wash. Filed Mar. 23, 1921.

Shimmie

Particular description of goods.—Toy Dog.
Claims use since July 1, 1920.

Ser. No. 145,211. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ALBERT HOUDLETT & SONS, INC., Brooklyn, N. Y. Filed Mar. 25, 1921.

Lynbrook

The word "Lynbrook" is in the handwriting of Mr. Albert Houdlett.

Particular description of goods.—Banjos, Mandolins, and Ukulele Banjos; Banjo Bridges, Pegs, Wrenches, Thimbles, Brackets, Fret-Wire, and Heads; Batons, Cymbals, Cymbal-Holders; Chinese Gongs, Wood Blocks, and Tom-Toms; Drums; Drumheads, Belts, Slings, Braces or Ears, Cords, Cases, Hooks, Keys, Leg-Rests, Mufflers, Rods, Snares, Snare-Strainers, Stands, Sticks and Shells; Drummers' Traps, Fifes, and Fife Mouthpieces; Flute Mouthpieces; Tympani, Drum-Pedals, Musical Bells, Tubaphones, Tambourines, Triangles, Block-Holders, Baby-Cries, Bird-Whistles, Auto-Horns, Guitars, Mandolins, and Violins.
Claims use since August, 1918.

Ser. No. 145,296. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WELLS FLOUR MILLING COMPANY, Wells, Minn. Filed Mar. 26, 1921.

Betsy Ross



The picture is not the portrait of an individual, but a fanciful drawing.

Particular description of goods.—Wheat-Flour.
Claims use since Jan. 3, 1921.

Ser. No. 145,319. (CLASS 2. RECEPTACLES.) CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed Mar. 28, 1921.

CROWN KRAFT



Particular description of goods.—Paper Bags.
Claims use since Jan. 11, 1919.

Ser. No. 145,320. (CLASS 2. RECEPTACLES.) CROWN WILLAMETTE PAPER COMPANY, San Francisco, Calif. Filed Mar. 28, 1921.

PURE FIBRE



Exclusive right to the words "Pure Fibre" being disclaimed apart from the mark as shown.

Particular description of goods.—Paper Bags.
Claims use since Feb. 28, 1907.

Ser. No. 145,493. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOLOMON D. BENOLIEL, Philadelphia, Pa. Filed Mar. 31, 1921.

NEW ERA

Particular description of goods.—Swabbing Compound to Remove the Powder Residuum from the Bores of Cannon.
Claims use since March, 1909.

Ser. No. 145,565. (CLASS 12. CONSTRUCTION MATERIALS.) HOUSTON BROTHERS, Vicksburg, Miss. Filed Apr. 1, 1921.



Particular description of goods.—Dressed and Undressed Lumber.
Claims use since Jan. 1, 1900.

Ser. No. 145,579. (CLASS 12. CONSTRUCTION MATERIALS.) NATIONAL ASBESTOS MANUFACTURING CO., Jersey City, N. J. Filed Apr. 1, 1921.

NATIONAL
AANA

Particular description of goods.—Prepared Roofing.
Claims use since Mar. 10, 1921.

Ser. No. 145,643. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) OPERA DISC COMPANY, INCORPORATED, New York, N. Y. Filed Apr. 2, 1921.



The word "Musica" is disclaimed.
Particular description of goods.—Phonograph-Records.
Claims use since Mar. 25, 1921.

Ser. No. 145,675. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) DURA MECHANICAL HARDWARE CO., INC., Toledo, Ohio. Filed Apr. 4, 1921.

DURA

Particular description of goods.—Window-Regulators.
Claims use since September, 1914.

Ser. No. 145,702. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) EUGENE R. ODEN, San Francisco, Calif. Filed Apr. 4, 1921.



The horizontal lines on the drawing do not denote color and are for shading purposes only.
Particular description of goods.—Ready-Mixed Paint and Waterproof Coatings of a Paintlike Nature.
Claims use since Jan. 15, 1921.

Ser. No. 145,792. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STEPHEN E. MOSES, Birmingham, Ala. Filed Apr. 6, 1921.



The portrait being that of Agnes L. Moses. No claim is made to the words "Tried," "Topmost," and "True" apart from the mark shown.
Particular description of goods.—Hair-Grower.
Claims use since Oct. 1, 1919.

Ser. No. 145,813. (CLASS 12. CONSTRUCTION MATERIALS.) BLAW-KNOX COMPANY, Pittsburgh, Pa. Filed Apr. 7, 1921.

BLAW-KNOX

Particular description of goods.—Portable and Permanent Steel Buildings.
Claims use since August, 1917.

Ser. No. 145,840. (CLASS 2. RECEPTACLES.) BENJAMIN R. MORRISON, Wilmington, N. C. Filed Apr. 7, 1921.

Asepto

Particular description of goods.—Sanitary Closed Receptacles for Holding Toothbrushes.
Claims use since November, 1920.

Ser. No. 145,874. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) O. W. BULLARD & F. C. BULLARD, Sheridan, Wyo. Filed Apr. 8, 1921.

MELLO
FREEZE

Particular description of goods.—Frozen Confection and Base for Frozen Confections.
Claims use since Mar. 5, 1921.

Ser. No. 145,976. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, San Francisco, Calif. Filed Apr. 9, 1921.



Particular description of goods.—Flushing-Oil.
Claims use since Nov. 27, 1920.

Ser. No. 145,977. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY, San Francisco, Calif. Filed Apr. 9, 1921.

CALOL

Particular description of goods.—Flushing-Oil.
Claims use since Nov. 27, 1920.

Ser. No. 146,077. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE HUGHES-KEENAN COMPANY, Mansfield, Ohio. Filed Apr. 12, 1921.

HYGEA



Particular description of goods.—Metal Toilet Partitions.
Claims use since October, 1919.

Ser. No. 146,108. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOWMAN DRUG CO., Oakland, Calif. Filed Apr. 13, 1921.

Derella

Particular description of goods.—Perfumes, Compact-Powder, Talcum Powder, Lip-Stick, Rouge, Cold-Cream, Toilet Powder, Face-Powder.
Claims use since Oct. 9, 1920.

Ser. No. 146,109. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CALIFORNIA PAINT COMPANY, Oakland, Calif. Filed Apr. 13, 1921.

DIABLO

Particular description of goods.—Mixed and Dry Paints, Stains, Varnishes, Paint Enamels, Colors in Oil, Colors in Japan, Colors in Distemper, Bronzing Liquids.
Claims use since 1914.

Ser. No. 146,160. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) AUTOHOME PLATE COMPANY, Ellensburg, Wash. Filed Apr. 14, 1921.

AUTOHOME

Particular description of goods.—Name-Plates and License-Plates for Motor-Vehicles.
Claims use since Feb. 1, 1921

Ser. No. 146,198. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) AKTIEBOLAGET ESKILSTUNA SEPARATOR, Eskilstuna, Sweden. Filed Apr. 15, 1921.

VEGA

Particular description of goods.—Milk or Cream Separators.
Claims use since Feb. 12, 1902.

Ser. No. 146,245. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN D. ANDERSON, New York, N. Y. Filed Apr. 16, 1921.

YEASTABS

Particular description of goods.—Medicinal Yeast Preparation for the Treatment of Debility, Stomach Disorders, Boils, Acne, Skin Troubles, Constipation, and to Provide the System with Vitamins.
Claims use since about Jan. 10, 1921.

Ser. No. 146,296. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHICAGO PNEUMATIC TOOL COMPANY, New York, N. Y. Filed Apr. 18, 1921.

40

Particular description of goods.—Pneumatic Tools—Namely, Riveting-Hammers.
Claims use since Feb. 16, 1921.

Ser. No. 146,391. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) POLDI STEEL CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 19, 1921.

VICTRIX

Particular description of goods.—Steel Billets, Bars, Forgings, and Disks.
Claims use since Jan. 5, 1921.

Ser. No. 146,392. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) POLDI STEEL CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 19, 1921.

ANTICORRO

Particular description of goods.—Steel Billets, Bars, Forgings, and Disks.
Claims use since Jan. 5, 1921.

Ser. No. 146,414. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURTISS CANDY CO., Chicago, Ill. Filed Apr. 20, 1921.

Marsh-O-Nut Dipp

No claim is made to the word "Dipp" apart from the mark shown.
Particular description of goods.—Candy.
Claims use since September, 1917.

Ser. No. 146,481. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CEREAL PRODUCTS REFINING COMPANY, San Francisco, Calif. Filed Apr. 21, 1921.

PEERLESS

No claim is made to the word "Peerless" apart from the other features of the mark shown on the drawing. The lining for color appearing on the drawing represents the color orange.
Particular description of goods.—A Cereal Malt Beverage Syrup Concentrate.
Claims use since July, 1920.

Ser. No. 146,584. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OREGON GROWERS COOPERATIVE ASSN., Salem, Oreg. Filed Apr. 22, 1921.

Mistland

Tart Sweet

The words "Tart-Sweet" do not form a part of the registration sought apart from the mark shown in the drawing.
Particular description of goods.—Dried Fruits, Fresh Fruits, and Berries.
Claims use since Nov. 15, 1920.

Ser. No. 146,506. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HAROLD CHARLES STORICK, Berrien Springs, Mich. Filed Apr. 22, 1921.

Rheumaqure

Particular description of goods.—Liniment—Namely, a Preparation for the Treatment of Rheumatism and Gout and a Preparation for the Treatment of Croup.
Claims use since July 1, 1920.

Ser. No. 146,618. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 23, 1921.

HAH

Particular description of goods.—Cold-Cream, Face-Cream, Massage-Cream, Vanishing Cream, Nail-Enamel, Skin and Tissue Builder, Depilatory Liquid, Depilatory Powder, Cuticle-Remover in the Nature of a Chemical Preparation, Preparation for Keeping the Hair in Wave and Curl, Shampoo, Rouge, Deodorizer.
Claims use since June, 1894.

Ser. No. 146,781. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE OHIO STEEL FOUNDRY COMPANY, Lima, Ohio. Filed Apr. 25, 1921.

HH

Particular description of goods.—Metal Castings.
Claims use since January, 1908.

Ser. No. 146,756. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) CLAYTON-WRIGHT, LTD., Birmingham, England. Filed Apr. 26, 1921.

CLAYRITE

Particular description of goods.—Electric Horns, an Electric-Lighting System for Motor-Vehicles.
Claims use since June 7, 1919.

Ser. No. 146,776. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MAX MILLER, New York, N. Y. Filed Apr. 26, 1921.

AMAROSA

Particular description of goods.—A Complete Line of Perfumes and Facial Creams, Milk Massage-Cream, Face-Powder, Cocoanut-Oil Shampoo, Vanishing Cream, Bouquet Toilet Water, Cold-Cream, Perfume, Quinin Hair-Tonic, Scalp-Rub Hair-Tonic.
Claims use since Jan. 15, 1911.

Ser. No. 146,824. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) C. M. GREY MFG. CO., East Orange, N. J. Filed Apr. 27, 1921.

REMOH

Particular description of goods.—Electric Cut-Out Switches, Spark-Timers, Ignition-Distributers, Electric Switches, Electric Induction and Resistance Coils, Electric Transformers, and Battery Ignition Parts and Magneto Ignition Parts.
Claims use since Feb. 1, 1921.

Ser. No. 146,834. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LAKE REGION PACKING ASSOCIATION, Tavares, Fla. Filed Apr. 27, 1921.



The picture on the drawing being fanciful.
Particular description of goods.—Fresh Citrus Fruits—Namely, Oranges, Grapefruit, and Tangerines.
Claims use since May, 1911.

Ser. No. 146,848. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NANNIE P. STONE, Nashville, Tenn. Filed Apr. 27, 1921.



Particular description of goods.—A Preparation for Use in Bleaching the Skin and for a Wash for Whitening and Beautifying the Skin.
Claims use since the 19th of April, 1921.

Ser. No. 146,860. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN HIDE AND LEATHER COMPANY, Chicago, Ill. Filed Apr. 28, 1921.



Particular description of goods.—Leather.
Claims use since Mar. 1, 1921.

Ser. No. 146,876. (CLASS 32. FURNITURE AND UPHOLSTERY.) COMMERCIAL FURNITURE COMPANY, Chicago, Ill. Filed Apr. 28, 1921.



No claim being made for the word "Desks" apart from the mark as shown. The lining of the drawing is merely for shading.
Particular description of goods.—Desks.
Claims use since Mar. 8, 1921.

Ser. No. 146,881. (CLASS 5. ADHESIVES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Repair Gums, Rubber Cement, Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,888. (CLASS 5. ADHESIVES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.



Particular description of goods.—Repair Gums, Rubber Cement, Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,895. (CLASS 5. ADHESIVES.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Rubber Gums, Rubber Cement, Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,909. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR GOULD, New York, N. Y. Filed Apr. 28, 1921.

AVLON

Particular description of goods.—Liquid Nail-Polish, Mud Massage, Lemon Cream, and Brilliantine for the Hair.
Claims use since Dec. 1, 1919.

Ser. No. 146,929. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 28, 1921.



Particular description of goods.—Electrical Vacuum-Tubes and Valves.
Claims use since Oct. 25, 1920.

Ser. No. 146,930. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) RADIO CORPORATION OF AMERICA, New York, N. Y. Filed Apr. 28, 1921.

RADIOTRON

Particular description of goods.—Electrical Vacuum-Tubes and Valves.
Claims use since Oct. 25, 1920.

Ser. No. 146,967. (CLASS 33. GLASSWARE.) HOLCOMB & HOKE MFG. CO., Indianapolis, Ind. Filed Apr. 29, 1921.

CRYSTALITE

Particular description of goods.—Heat-Resisting Glassware for the Popping-Chamber in Popcorn-Machines and Cooking Utensils.
Claims use since Feb. 1, 1921.

Ser. No. 147,047. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE PRONTIC DRUGGISTS, INC., Baltimore, Md. Filed Apr. 30, 1921.

Readi-prompt

Particular description of goods.—Bromics, (for Headache, Depressions, &c.;) Cold and Grippe Tablets; Digestives, (for Indigestion, Constipation, &c.;) Indigestion-Tablets, Laxative Aspirin, Little Liver-Pills, Kidney and Bladder Pills, Blood and Nerve Tonic, Hair-Tonic Dandruff-Preventive; Pain Rub, a Liniment for Rheumatic, Neuralgic, and All Localized Pains; Soothing Skin-Ointment, Healing Cold-Cream, Antiseptic, Chemical Corn-Remover, General Tonic, Rheumatic Relief, and Kidney Medicine, Scalp and Dandruff Cerate, Laxatives.
Claims use since on or about Apr. 26, 1921.

Ser. No. 147,092. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHAPIN & COMPANY, Hammond, Ind., and Chicago, Ill. Filed May 2, 1921.



Particular description of goods.—Prepared Poultry Feed.
Claims use since Mar. 23, 1921.

Ser. No. 147,203. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MERIDEN CREAMERY COMPANY, Kansas City, Mo. Filed May 4, 1921.

GOLD BAR

Particular description of goods.—Creamery-Butter.
Claims use since October, 1911.

Ser. No. 147,311. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAYMOND EDWIN REYNOLDS, Columbus, Ohio. Filed May 6, 1921.

DIURIN

Particular description of goods.—A Medicinal Preparation for the Relief of Kidney and Bladder Troubles.
Claims use since Jan. 10, 1921.

Ser. No. 147,313. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROETHLISBERGER & CO., INC., New York, N. Y. Filed May 6, 1921.



Particular description of goods.—Cheese.
Claims use since May 2, 1921.

Ser. No. 147,314. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ROSTHLISBERGER & CO., INC., New York, N. Y. Filed May 6, 1921.

TIGER



Particular description of goods.—Cheese.
Claims use since May 2, 1921.

Ser. No. 147,332. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDMUND BRUDER, Chicago, Ill. Filed May 7, 1921.

PARLOR

ANTE

Particular description of goods.—Game-Board, Game-Indicator, Game-Counter, Game-Piece, and Games Played with a Counter, Indicator, or Game-Piece.
Claims use since January, 1921.

Ser. No. 147,381. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM C. WILL, Buffalo, N. Y. Filed May 7, 1921.

HB

Particular description of goods.—Eggs.
Claims use since Apr. 1, 1921.

Ser. No. 147,415. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DECATUR BREWING COMPANY, Decatur, Ill. Filed May 9, 1921.

WHITE BANNER



Particular description of goods.—Malt Extract in Syrup Form Used as a Food Product.
Claims use since Mar. 13, 1921.

Ser. No. 147,433. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) R. V. LULL, Ithaca, N. Y. Filed May 9, 1921.

Handee

Particular description of goods.—A Preservative Cleaner Polish and Restorative for Varnished and Enamel Surfaces.
Claims use since June, 1920.

Ser. No. 147,436. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) LITTLE GIANT COMPANY, Mankato, Minn. Filed May 9, 1921.



Particular description of goods.—Power-Hammers and Metal and Wood Lathes.
Claims use since January, 1916.

Ser. No. 147,530. (CLASS 38. PRINTS AND PUBLICATIONS.) SHERWIN PUBLISHING CORPORATION, New York, N. Y. Filed May 10, 1921.

GOSSIP

Particular description of goods.—Biweekly Magazine.
Claims use since May 6, 1921.

Ser. No. 147,579. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WILLIAM W. STANLEY, New York, N. Y. Filed May 11, 1921.

KOPPER KLAD

Particular description of goods.—Waterproofed Cotton Duck and Canvas.
Claims use since Jan. 20, 1921.

Ser. No. 147,580. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed May 11, 1921.

WESSON

22

Particular description of goods.—Prepared Fatty Oleaginous or Unctuous Food Substances.
Claims use since about Sept. 3, 1903.

Ser. No. 147,581. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed May 11, 1921.

WESSON

44

Particular description of goods.—Prepared Fatty Oleaginous or Unctuous Food Substances.
Claims use since about September, 1901.

Ser. No. 147,582. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed May 11, 1921.

WESSON

55

Particular description of goods.—Prepared Fatty Oleaginous or Unctuous Food Substances.
Claims use since about Feb. 3, 1903.

Ser. No. 147,583. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed May 11, 1921.

WESSON

66

Particular description of goods.—Prepared Fatty Oleaginous or Unctuous Food Substances.
Claims use since about Oct. 3, 1903.

Ser. No. 147,584. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed May 11, 1921.

WESSON

77

Particular description of goods.—Prepared Fatty Oleaginous or Unctuous Food Substances.
Claims use since about September, 1901.

Ser. No. 147,585. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed May 11, 1921.

WESSON
88

Particular description of goods.—Prepared Fatty Oleaginous or Unctuous Food Substances.
Claims use since about September, 1901.

Ser. No. 147,586. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE SOUTHERN COTTON OIL COMPANY, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Filed May 11, 1921.

WESSON
99

Particular description of goods.—Prepared Fatty Oleaginous or Unctuous Food Substances.
Claims use since about Mar. 15, 1905.

Ser. No. 147,668. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) KRONYTE MANUFACTURING CORPORATION, Rochester, N. Y. Filed May 13, 1921.

Kronyte

Particular description of goods.—Fiber Gaskets and Fiber Packings and Fiber in Sheet Form for Gaskets and Packings.
Claims use since Apr. 13, 1921.

Ser. No. 147,672. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE LOG CABIN PRODUCTS COMPANY, St. Paul, Minn. Filed May 13, 1921.



The lines indicating color shown in the drawing being for shading only, and the exclusive use of the words "Brand" and "Syrup" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Syrups for Table Purposes.
Claims use since January, 1921.

Ser. No. 147,701. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN ASPEGREN, New York, N. Y. Filed May 14, 1921.

MIKADO

Particular description of goods.—Prime Cooking-Oil Obtained from Soy Beans.
Claims use since Mar. 15, 1917.

Ser. No. 147,703. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDMUND BRUDER, Chicago, Ill. Filed May 14, 1921.

HOME-GRAPH

Particular description of goods.—Game-Board, Game-Indicator, Game-Counter, Game-Piece, and Game Played with a Counter, Indicator, or Game-Piece.
Claims use since January, 1921.

Ser. No. 147,724. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WM. E. HOOPER & SONS CO., Baltimore, Md. Filed May 14, 1921.

HOOPERWOOD

Particular description of goods.—Cotton-Duck Paper-Felts, Oil-Press Cloth, Cider-Press Cloth, Cotton Cloths, Cotton Twills, Filter-Blanket Cloth, Army-Belting Fabrics, Netted Fabrics, Leno-Weave Cloths, Knitted Fabrics, and Cotton Duck, All in the Piece; Woven Cotton Tubes, Cotton Sponge-Cloths, Cotton Scrub-Cloths, and Cotton Dish-Cloths.
Claims use since Apr. 10, 1905.

Ser. No. 147,820. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DU-RITE PRODUCTS CO., New York, N. Y. Filed May 17, 1921.

DU-RITE
"OR NOT AT ALL"
POLISH

No claim being made to the exclusive use of the word "Polish" apart from the mark as shown on the drawing.
Particular description of goods.—A Liquid Preparation for Polishing Finished Surfaces.
Claims use since May 3, 1921.

Ser. No. 147,834. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MASTERPHONE CORPORATION OF AMERICA, New York, N. Y. Filed May 17, 1921.



The bird shown being red. The words "Concert Tips" being disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Phonograph-Needles.
Claims use since Mar. 1, 1921.

Ser. No. 147,936. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MANUFACTURING COMPANY OF AMERICA, Philadelphia, Pa. Filed May 19, 1921.

BALTIC

Particular description of goods.—Candy.
Claims use since about Aug. 10, 1906.

Ser. No. 148,015. (CLASS 15. OILS AND GREASES.) THE AMERICAN OIL COMPANY, Providence, R. I. Filed May 21, 1921.



Particular description of goods.—Lubricating-Oils, Dynamo, Screw-Cutting, Loom, and Spindle Oil.
Claims use since Dec. 15, 1888.

Ser. No. 148,039. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SUPERIOR SHEET STEEL COMPANY, Louisville, Ohio. Filed May 21, 1921.



Particular description of goods.—Rolled Steel in Various Forms and Finishes, Comprising Sheet-Steel in Black, Galvanized, Blue Annealed, Painted, and other Finishes.
Claims use since Feb. 15, 1921.

Ser. No. 148,071. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOMEAID PRODUCTS CO., Jersey City, N. J. Filed May 23, 1921.

Kill-A-Nit

Particular description of goods.—A Preparation for Exterminating Vermin on the Human Body and Hair.
Claims use since about September, 1918.

Ser. No. 148,072. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOMEAID PRODUCTS CO., Jersey City, N. J. Filed May 23, 1921.

KILL-A-WART

Particular description of goods.—A Preparation for the Treatment of Warts.
Claims use since about September, 1918.

Ser. No. 148,081. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOFT INCORPORATED, New York, N. Y. Filed May 23, 1921.

RECORD

Particular description of goods.—Candies.
Claims use since May 13, 1921.

Ser. No. 148,090. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) RENOVITE CORPORATION, New York, N. Y. Filed May 23, 1921.

RENOVITE

Particular description of goods.—Dried, Ready-Mixed, and Paste Paints, Varnish, Prepared Shellac, and Paint, Varnish, and Shellac Removers.
Claims use since Mar. 24, 1921.

Ser. No. 148,112. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES H. AUERBACH and ROY P. AUERBACH, Chicago, Ill. Filed May 24, 1921.

AUERBACH'S
MIRACLE
BUG
EXTERMINATOR
AND
DISINFECTANT
INSTANT KILLER
FOR
ALL INSECTS
GUARANTEED

We disclaim all wording appearing on the drawing except the words "Auerbach's Miracle."
Particular description of goods.—Pharmaceutical preparations, Particularly Insecticides, Germicides, and Related Products.
Claims use since Apr. 15, 1921.

Ser. No. 148,113. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB S. BERNHEIMER & BRO., New York, N. Y. Filed May 24, 1921.

CHIFOLAIN

Particular description of goods.—Cotton Voile in the Piece.
Claims use since Apr. 1, 1921.

Ser. No. 148,115. (CLASS 38. PRINTS AND PUBLICATIONS.) ALLEN E. BEALS CORPORATION, New York, N. Y. Filed May 24, 1921.

THE DOWSER

Particular description of goods.—A Daily and a Weekly Publication, Newspaper, Magazine, or Report.
Claims use since Mar. 1, 1916.

Ser. No. 148,133. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HORACE W. DAVIS, New York, N. Y. Filed May 24, 1921.

Vanique

Particular description of goods.—Bleach - Creams, Beauty-Creams, Cold-Creams, Cleansing-Creams, Face-Powders, Compact Face-Powders, Liquid Face-Powders, Compact Rouges, Liquid Rouges, Talcum Powders, Eyebrow and Eyelash Growers, Eyebrow-Pencils, Eye-Drops, Face-Bleaches, Hair-Salves, Shampoos, Skin-Lotions, Hand-Lotions, Lip-Sticks, Bath-Salts, Witch-Hazel Salves, Chemical Preparations for Softening of the Cuticle, Nail-Polishes, Nail-Bleaches, Toilet Waters, and Perfumes.
Claims use since Apr. 15, 1921.

Ser. No. 148,225. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HELWIG & LEITCH, Baltimore, Md. Filed May 25, 1921.

BLUE BIRD



Particular description of goods.—Bluing.
Claims use since May 14, 1921.

Ser. No. 148,258. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DRY OIL PRODUCTS, LTD., London, England, and New York and Trout Creek, N. Y. Filed May 26, 1921.

LACTOLIO

Particular description of goods.—Following Products—Namely, Cathartic or other Medicinal Cookie, Cake, or Cracker Containing Castor-Oil, Cod-Liver Oil, or other Medicinal Oil.
Claims use since Feb. 10, 1921.

Ser. No. 148,277. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HOLMES CHEMICAL COMPANY, INC., Elizabeth, N. J., and New York, N. Y. Filed May 26, 1921.

B-B-CIDE

Particular description of goods.—Insecticide.
Claims use since about May 11, 1921.

Ser. No. 148,293. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. O. A. MILLER CHEMICAL COMPANY INCORPORATED, Parsons, W. Va. Filed May 26, 1921.

PARMIL

Particular description of goods.—Antiseptic Mouth-Wash.
Claims use since Jan. 1, 1921.

Ser. No. 148,334. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE JEFFERSON FORGE PRODUCTS COMPANY, Detroit, Mich. Filed May 27, 1921.

JD

Particular description of goods.—Steel Drop-Forgings.
Claims use since Apr. 25, 1921.

Ser. No. 148,342. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL PRODUCTS CO., Eau Claire, Wis. Filed May 27, 1921.

PINOL

Particular description of goods.—Face-Washes, Face-Creams, Talcum Powders, Toilet Waters, Hair-Tonics, Dandruff-Solvents, and Cocoanut-Oil Shampoos.
Claims use since Apr. 15, 1919.

Ser. No. 148,351. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SCHWARZENBACH, HUBER & COMPANY, West Hoboken, N. J., and New York, N. Y. Filed May 27, 1921.

BLACK BROOK FABRICS

No claim being made to the word "Fabrics" apart from the mark shown in the drawing.
Particular description of goods.—Broad Silks in the Piece.
Claims use since Jan. 4, 1921.

Ser. No. 148,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCESCO P. CATANIA, Philadelphia, Pa. Filed May 28, 1921.

ANTHOS

Particular description of goods.—Preparation Used in the Treatment of Tuberculosis and a Preparation Used in the Treatment of Eyes.
Claims use since about January, 1919.

Ser. No. 148,395. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GIOVANNI MARTELLOTTA, New York, N. Y. Filed May 28, 1921.

Sta-cond

Particular description of goods.—Hair-Tonic and Dandruff Remedy.
Claims use since January, 1918.

Ser. No. 148,423. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CUTLER-MAGNER CO., Duluth, Minn. Filed May 31, 1921.

"BLOXALT"

Particular description of goods.—Block-Salt.
Claims use since May, 1921.

Ser. No. 148,430. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CLYDE COLLINS COMPANY, INC., Memphis, Tenn. Filed May 31, 1921.

RU-CO

Particular description of goods.—Tonic for Rheumatism.
Claims use since about Mar. 10, 1921.

Ser. No. 148,440. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HAIL PRODUCTS CO., Portland, Oreg. Filed May 31, 1921.

PRUFO

Particular description of goods.—Dressing for Leather, Rubber, and Fabrics in General and other Articles Which are to be Protected from the Weather, Forming Thereon When Dry an Elastic Waterproof Film.
Claims use since Mar. 23, 1921.

Ser. No. 148,484. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C. Filed June 1, 1921.

CHATHAM



BLANKETS

No claim being made to the word "Blankets" apart from the mark.

Particular description of goods.—Blankets Made of Wool and of Cotton or Combination of Wool and Cotton.
Claims use since Jan. 15, 1919.

Ser. No. 148,501. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MOHLER BROS. COFFEE COMPANY, Hattiesburg, Miss. Filed June 1, 1921.

Heart-o-Bean

Particular description of goods.—Coffee.
Claims use since Jan. 1, 1921.

Ser. No. 148,529. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) EDMUND BRUDER, Chicago, Ill. Filed June 2, 1921.

PARLORETTE

Particular description of goods.—Game-Boards, Game-Indicators, Game-Counter, Game-Piece, and Games Played with a Counter, Indicator, or Game-Piece.
Claims use since February, 1921.

Ser. No. 148,627. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) STANDARD VARNISH WORKS, New York, N. Y. Filed June 3, 1921. Under ten-year proviso.

STANDARD

Particular description of goods.—Varnish, Varnish-Remover, Liquid Drier, Black Lacquer, Liquid Filler, White Enamel, Japan Drier, Turpentine, Shellac, Oil Finish, and Orange Shellac.
Claims use since 1876.

Ser. No. 148,691. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE ATLANTIC REFINING COMPANY, Philadelphia, Pa. Filed June 6, 1921.



The crossed arrows and the outer irregular border are in red.

Particular description of goods.—Turpentine Substitute.
Claims use since Sept. 2, 1915.

Ser. No. 148,699. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed June 6, 1921.

PORJERVIS

Particular description of goods.—Piece Goods of Silk.
Claims use since Mar. 19, 1921.

Ser. No. 148,700. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BIANCHINI, FÉRIER, Lyon, France. Filed June 6, 1921.

JERVISIA

Particular description of goods.—Piece Goods of Silk.
Claims use since Mar. 19, 1921.

Ser. No. 148,785. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. ARON & COMPANY, INC., New York, N. Y. Filed June 7, 1921.

ARONCO

Particular description of goods.—Coffee.
Claims use since Dec. 29, 1920.

Ser. No. 148,788. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BENJAMIN J. BRUNS, Cincinnati, Ohio. Filed June 7, 1921.

HERBALO

Particular description of goods.—General Medicinal System-Tonic.
Claims use since 1901.

Ser. No. 148,934. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WALTER A. GIBBS, Chester, Pa. Filed June 10, 1921.

GLADIATOR

Particular description of goods.—Animal-Traps.
Claims use since June 1, 1921.

Ser. No. 148,955. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) SOCIÉTÉ ANONYME DES USINES GIULINI, Basel, Switzerland. Filed June 10, 1921.

Aludur

Particular description of goods.—Aluminium, Alloys of Aluminium and Solders.
Claims use since September, 1920.

Ser. No. 148,962. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NATIONAL DRUG STORES CORP., New York, N. Y. Filed June 6, 1921.

NATIONAL

Particular description of goods.—Tooth-Paste.
Claims use since Sept. 1, 1920.

Ser. No. 149,030. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) I. SACKS & SONS, New York, N. Y. Filed June 11, 1921.

"MINGTOY"

Particular description of goods.—Silks in the Piece.
Claims use since Jan. 11, 1921.

Ser. No. 149,184. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FLORENCE P. GASSER, Reading, Pa. Filed June 15, 1921.



No claim is made to the word "Potato" apart from the mark as shown.

Particular description of goods.—Potato-Chips.
Claims use since May 2, 1921.

Ser. No. 149,185. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) INTERNATIONAL DRUG COMPANY, Wilmington, Del. Filed June 15, 1921.



Particular description of goods.—Toilet Soap.
Claims use since Oct. 27, 1916.

Ser. No. 149,202. (CLASS 15. OILS AND GREASES.) PARKER-KISKADDEN COMPANY, Detroit, Mich. Filed June 15, 1921.

Zolv

Particular description of goods.—For Transmission and Like Greases.
Claims use since June 2, 1921.

Ser. No. 149,237. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATHAN & CIE LABORATOIRES CADUM, Courbevoie, France. Filed June 16, 1921.

D'ONGE

Particular description of goods.—Toilet Soap and Shaving-Soap.
Claims use since Sept. 21, 1920.

Ser. No. 149,243. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) PITTSBURGH TOOL STEEL WIRE COMPANY, Monaca, Pa. Filed June 16, 1921.

RELIANCE

Particular description of goods.—Drill-Rods and Cold-Drawn Steel.
Claims use since Apr. 29, 1921.

Ser. No. 149,247. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SHU-MILK PRODUCTS CORPORATION, Belleville, N. J. Filed June 16, 1921.

SHU-MILK

Particular description of goods.—Shoe-Polishes.
Claims use since about Nov. 26, 1920.

Ser. No. 149,282. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) GREAT WESTERN SMELTING & REFINING COMPANY, Chicago, Ill. Filed June 17, 1921.

GALVALOY

Particular description of goods.—Solder.
Claims use since June 1, 1920.

Ser. No. 149,332. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) C. ALBERT KUEHNLE CO., INC., Philadelphia, Pa. Filed June 18, 1921.



No claim being made to the words "Pure Fresh Paint" apart from the mark shown in the drawing.
Particular description of goods.—Paints, Ready Mixed and in Paste Form, Varnishes, Paint Enamels, Wood-Stains, and Fillers.
Claims use since May 2, 1921.

Ser. No. 149,340. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JACOB MILLER SONS & CO., Philadelphia, Pa. Filed June 18, 1921.

ARTRAY

Particular description of goods.—Cotton Goods, Silk Goods, Linen Goods, and Mixtures of Cotton and Silk and Linen, All in the Piece.
Claims use since June 3, 1921.

Ser. No. 149,346. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) NATIONAL PAINT SYNDICATE, INC., New York, N. Y. Filed June 18, 1921.

NAPAN

Particular description of goods.—Paint Enamels, Ready-Mixed Paints, Varnishes, and Furniture-Polish.
Claims use since Feb. 28, 1914.

Ser. No. 149,367. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WESTERN SOAP COMPANY, Spokane, Wash. Filed June 18, 1921.



Particular description of goods.—Laundry Soap.
Claims use since January, 1920.

Ser. No. 149,406. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE KOLYNOS COMPANY, New Haven, Conn. Filed June 20, 1921.



Particular description of goods.—Soap.
Claims use since Aug. 14, 1912.

Ser. No. 149,412. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MCDOUGALL-BUTLER CO., INC., Buffalo, N. Y. Filed June 20, 1921.

ZANZITE

Particular description of goods.—Paint Enamel.
Claims use since about 1903.

Ser. No. 149,444. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 21, 1921.

The Unknown Flower

Particular description of goods.—Soaps.
Claims use since May 23, 1921.

Ser. No. 149,445. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 21, 1921.

Crème des Fleurs

Particular description of goods.—Soaps.
Claims use since June 3, 1921.

Ser. No. 149,526. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) SILICA PRODUCTS CO., INC., San Francisco, Calif. Filed June 22, 1921.

21

Particular description of goods.—Polishing and Cleaning Compounds in Cake and Powdered Form.
Claims use since June 1, 1921.

Ser. No. 149,549. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HOWLETT & HOCKMEYER CO., INC., New York, N. Y. Filed June 23, 1921.

Daffy-Down-Dilly

Particular description of goods.—Cotton Fabrics in the Piece.
Claims use since Jan. 10, 1921.

Ser. No. 149,583. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) FIRTH STERLING STEEL COMPANY, McKeesport, Pa. Filed June 24, 1921.



Particular description of goods.—Steel, Including Tool and Die Steel.
Claims use since June 10, 1921.

Ser. No. 149,587. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GOLDENBERG BROTHERS & COMPANY, New York, N. Y. Filed June 24, 1921.



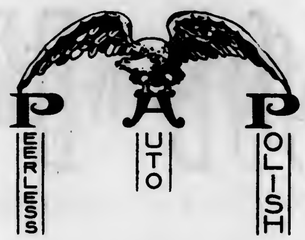
No claim being made to the word "Brand" apart from the mark shown in the drawing.
Particular description of goods.—Cotton Piece Goods—Namely, Organdies, Voiles, Lawns, Nainsooks, Gabardines, and Twills.
Claims use since December, 1920.

Ser. No. 149,631. (CLASS 38. PRINTS AND PUBLICATIONS.) CALIFORNIA CITROGRAPH PUBLISHING COMPANY, Los Angeles, Calif. Filed June 25, 1921.

The California Citrograph

Particular description of goods.—A Monthly Magazine.
Claims use since Oct. 1, 1915.

Ser. No. 149,654. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ANDREW M. SNYDER, Hamilton, Ohio. Filed June 25, 1921.



No claim is made to the words "Peerless Auto Polish" apart from the mark shown.

Particular description of goods.—Furniture and Auto Polish.

Claims use since Apr. 10, 1921.

Ser. No. 149,692. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EAST AND WEST TRADING CORPORATION, New York, N. Y. Filed June 27, 1921.

Lady Betty

Particular description of goods.—Human-Hair Nets.

Claims use since Dec. 20, 1920.

Ser. No. 149,715. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) J. MANOWITZ & SONS, New York, N. Y. Filed June 27, 1921.



No claim is made to the exclusive use of the representation of the goods on the drawing apart from the mark shown. The trade-mark consists of a black and yellow band which is provided on the edging of the fabric, as shown in the drawing, (which is lined for the black and yellow colors,) by weaving or providing the fabric with black and yellow strands to give a narrow black and a wider yellow band, as shown.

Particular description of goods.—Linen-Duck Padding in the Piece.

Claims use since about June, 1916.

Ser. No. 149,923. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE MARATHON TIRE AND RUBBER COMPANY, Cuyahoga Falls, Ohio. Filed July 1, 1921.

MARATHON

Particular description of goods.—Golf-Balls and Golf-Stick Grips.

Claims use since June 15, 1921.

Ser. No. 150,002. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE BASSICK COMPANY, Bridgeport, Conn. Filed July 5, 1921.

WIZARD SWIVEL

The word "Swivel" being disclaimed apart from the mark as shown.

Particular description of goods.—Casters.

Claims use since January, 1919.

Ser. No. 150,086. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ROSA B. WRIGHT, Washington, D. C. Filed July 6, 1921.

ELECTRIC WONDER POLISH

No claim is made to the word "Polish" apart from the mark shown on the drawing.

Particular description of goods.—Polishes for Automobiles, Furniture, Floors, and other Painted, Varnished, or Otherwise Coated Surfaces.

Claims use since about July, 1915.

Ser. No. 150,093. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE BASSICK COMPANY, Bridgeport, Conn. Filed July 7, 1921.

UNIVERSAL

Particular description of goods.—Casters.

Claims use since 1904.

Ser. No. 150,173. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) AMERICAN DRUG AND CHEMICAL Co., Gettysburg, Pa. Filed July 9, 1921.

Junior Chemist

Particular description of goods.—Toy Chemical Sets.

Claims use since Oct. 10, 1920.

Ser. No. 150,255. (CLASS 12. CONSTRUCTION MATERIALS.) BYRD C. ROCKWELL, Camden, Ark. Filed July 11, 1921.

WONDOR

Particular description of goods.—Screen-Doors.

Claims use since June 23, 1921.

Ser. No. 150,278. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) L & W TOE AND HEEL SAVERS, Newark, N. J. Filed July 12, 1921.

L & W

Particular description of goods.—Toe and Heel Protectors.

Claims use since May 1, 1921.

Ser. No. 150,335. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) REX SUPPLY COMPANY, INC., Oakland, Calif. Filed July 13, 1921.

REX

Particular description of goods.—Toilet Tank Ball-Cocks and Trough Ball-Cocks.

Claims use since Feb. 1, 1921.

Ser. No. 150,514. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) CAROLINA CRUSHED SHELL CO., Charleston, S. C. Filed July 18, 1921.

SHELMORE

Particular description of goods.—Crushed Oyster-Shell Used as Poultry Feed.

Claims use since Apr. 20, 1921.

Ser. No. 150,754. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE KAPPLER-FOX FOUNDRY CO., Philadelphia, Pa. Filed July 21, 1921.

"Pennant"

Particular description of goods.—Gas, Coal, and Oil.

Claims use since 1909.

Ser. No. 150,763. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed July 21, 1921.

PUN-GEE

Particular description of goods.—Dolls.

Claims use since July 1, 1921.

Ser. No. 150,894. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) FILMOLENS SALES CO., Detroit, Mich. Filed July 25, 1921.

FILMOLENS

Particular description of goods.—Devices for Diffusing Light, Such as Lenses for Automobile-Lamps and the Like.

Claims use since May 15, 1920.

Ser. No. 150,904. (CLASS 12. CONSTRUCTION MATERIALS.) LACLEDE-CHRISTY CLAY PRODUCTS COMPANY, St. Louis, Mo. Filed July 25, 1921.

LACLEDE KING

Particular description of goods.—Fire-Brick and Fire-Tile.

Claims use since Apr. 1, 1904.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 6, 1921.

146,154. HANDKERCHIEFS. ADAMS-BACH HDKF. MFG. CO., INC., New York, N. Y.
Filed February 1, 1921. Serial No. 143,033. PUBLISHED MAY 24, 1921.

146,155. WHEAT-FLOUR. M. AINSA & SONS, INC., El Paso, Tex.
Filed March 12, 1921. Serial No. 144,658. PUBLISHED MAY 24, 1921.

146,156. OXYGEN, ACETYLENE, AND NITROGEN. AIR REDUCTION COMPANY, INCORPORATED, New York, N. Y.
Filed October 14, 1920. Serial No. 138,273. PUBLISHED APRIL 26, 1921.

146,157. HIGH-FREQUENCY ELECTRIC FURNACES AND PARTS THEREOF AND CERTAIN NAMED ASSOCIATED DEVICES. AJAX ELECTROTHERMIC CORPORATION, Trenton, N. J.
Filed December 21, 1920. Serial No. 141,347. PUBLISHED MAY 17, 1921.

146,158. METAL-TREATING FLUID FOR PREPARING WORK FOR SOLDERING. AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa.
Filed February 8, 1921. Serial No. 143,312. PUBLISHED APRIL 12, 1921.

146,159. CERTAIN TRANSMISSIONS. THE AMERICAN DISPLAY COMPANY, Dayton, Ohio.
Filed December 7, 1920. Serial No. 140,704. PUBLISHED MAY 17, 1921.

146,160. HAND-CULTIVATORS. THE AMERICAN FORK AND HOE COMPANY, Cleveland, Ohio.
Filed February 24, 1920. Serial No. 128,750. PUBLISHED MAY 17, 1921.

146,161. CORN-SYRUP FOR FOOD PURPOSES. AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill.
Filed January 11, 1921. Serial No. 142,055. PUBLISHED MAY 10, 1921.

146,162. MOTION-PICTURE FILMS. THE AMERICAN INDIAN FILM CO., Denver, Colo.
Filed November 22, 1920. Serial No. 139,922. PUBLISHED MAY 17, 1921.

146,163. PRINTING-MACHINES AND PARTS THEREOF. THE AMERICAN MULTIGRAPH SALES COMPANY, Cleveland, Ohio.
Filed October 14, 1920. Serial No. 138,271. PUBLISHED MAY 10, 1921.

146,164. SMOKING AND CHEWING TOBACCO AND CIGARETTES. THE AMERICAN TOBACCO COMPANY, New York, N. Y.
Filed October 19, 1920. Serial No. 138,466. PUBLISHED MAY 17, 1921.

146,165. VALVES. AMERICAN VALVE CO., Coxsackie, N. Y.
Filed April 2, 1921. Serial No. 145,602. PUBLISHED MAY 24, 1921.

146,166. LUBRICATING-OILS AND GASOLENE. ASSOCIATED OIL COMPANY, San Francisco, Calif.
Filed February 26, 1921. Serial No. 144,062. PUBLISHED MAY 31, 1921.

146,167. LINSEED-OIL SUBSTITUTE. THE ATLANTIC REFINING COMPANY, Philadelphia, Pa.
Filed October 20, 1920. Serial No. 138,527. PUBLISHED MAY 17, 1921.

146,168. CANNED FOOD PRODUCTS, AS FOLLOWS: SALMON, SLICED BEEF, VEGETABLES, FRUITS, AND JAMS. AUSTIN, NICHOLS & COMPANY, INCORPORATED, Brooklyn and New York, N. Y.
Filed June 28, 1920. Serial No. 134,292. PUBLISHED MAY 17, 1921.

146,169. TALCUM POWDER, FACE-POWDER, TOILET EXTRACT, TOILET WATER, ROUGE, SACHET, BATH-SALTS, TOOTH-POWDER, AND PERSPIRATION-POWDER. A. P. BABCOCK COMPANY, New York, N. Y.
Filed October 5, 1920. Serial No. 137,908. PUBLISHED APRIL 26, 1921.

146,170. CERTAIN NAMED ELECTRICAL DEVICES. BAKE-RITE OVEN MANUFACTURING COMPANY, Reno, Nev., and San Francisco, Calif.
Filed June 9, 1919. Serial No. 119,331. PUBLISHED SEPTEMBER 30, 1919.

146,171. SEWING-MACHINE NEEDLES AND MACHINE KNITTING-NEEDLES. C. B. BARKER & CO. LTD., New York, N. Y.
Filed February 4, 1921. Serial No. 143,155. PUBLISHED MAY 24, 1921.

146,172. ABSORBENT MATERIAL COMPRISING ESSENTIALLY ACTIVATED CARBONACEOUS MATTER ADAPTED TO ABSORB GASES. THE BARNEBEY-CHENEY ENGINEERING COMPANY, Columbus, Ohio.
Filed August 19, 1920. Serial No. 136,249. PUBLISHED JANUARY 25, 1921.

146,173. BAKING-POWDER. BATTERTON COFFEE CO., Birmingham, Ala.
Filed October 15, 1920. Serial No. 138,313. PUBLISHED APRIL 5, 1921.

146,174. CERTAIN NAMED INSTRUMENTS OF PRECISION. BARR & STROUD, LIMITED, Anniesland, Glasgow, Scotland.
Filed November 23, 1920. Serial No. 140,011. PUBLISHED MAY 17, 1921.

146,175. DUPLICATING-ROLLS, COMPRISING A CLOTH BASE OR FOUNDATION AND A LAYER OF DUPLICATING MATERIAL, AS GELATIN. THE BECK DUPLICATOR COMPANY, New York, N. Y.
Filed January 25, 1921. Serial No. 142,745. PUBLISHED MAY 3, 1921.

146,176. WHEAT-FLOUR. SAMUEL BELL & SONS, Philadelphia, Pa.
Filed March 12, 1921. Serial No. 144,661. PUBLISHED MAY 24, 1921.

146,177. PAINT-PIGMENTS—NAMELY, CARBON-BLACK, GAS-BLACK, BONE-BLACK, DROP-BLACK, IVORY-BLACK, AND OXID-BLACK. BINNEY & SMITH COMPANY, New York, N. Y.
Filed December 31, 1920. Serial No. 141,715. PUBLISHED MAY 31, 1921.

146,178. COUGH-SYRUP, WITCH-HAZEL, CAMPHORATED OIL, PURE GLYCERIN. BLACKSTONE MANUFACTURING CO., Newark, N. J.
Filed September 2, 1920. Serial No. 136,735. PUBLISHED MAY 17, 1921.

146,179. MEN'S FLANNEL SHIRTS, MEN'S WORK-SHIRTS, AND MEN'S DRESS-SHIRTS. BOB & BASKIND, New York, N. Y.
Filed January 7, 1921. Serial No. 141,941. PUBLISHED APRIL 26, 1921.

146,180. LINIMENT FOR USE IN THE TREATMENT OF RHEUMATISM. J. A. BOON, Gary, Ind.
Filed March 26, 1920. Serial No. 180,201. PUBLISHED SEPTEMBER 21, 1920.

146,181. SILK SHIRTINGS IN THE PIECE. M. BORNSTEIN & SONS, Paterson, N. J.
Filed February 11, 1921. Serial No. 143,424. PUBLISHED MAY 24, 1921.

146,182. A RECONSTRUCTIVE TONIC. BORAX MANUFACTURING CO., Scranton, Pa.
Filed December 21, 1920. Serial No. 141,352. PUBLISHED MAY 17, 1921.

146,183. CERTAIN BATHROOM FITTINGS. BEE MANUFACTURING COMPANY, Boston, Mass.
Filed November 13, 1920. Serial No. 139,648. PUBLISHED MAY 17, 1921.

146,184. MAIL-ORDER SHEETS. BRENTANO'S, New York, N. Y.
Filed January 28, 1921. Serial No. 142,868. PUBLISHED MAY 17, 1921.

146,185. CERTAIN NON-FERROUS METALS. J. BRIGGS & SONS CO., Providence, R. I.
Filed April 19, 1920. Serial No. 131,306. PUBLISHED MAY 17, 1921.

146,186. HAIR-TONIC, PERFUME, TOILET WATER, TALCUM, ROUGE, FACE-POWDER, COLD-CREAM, AND VANISHING CREAM. HERMAN W. BRIZMAN, Cleveland, Ohio.
Filed October 16, 1920. Serial No. 138,370. PUBLISHED APRIL 12, 1921.

146,187. CERTAIN NAMED ELECTRIC HEATING APPLIANCES. A. BUCK & CO. CALORA, Zurich, Switzerland.
Filed November 1, 1918. Serial No. 114,069. PUBLISHED MAY 17, 1921.

146,188. OPHTHALMIC LENSES. BUFFALO LENS MFG. CO. INC., Buffalo, N. Y.
Filed March 22, 1920. Serial No. 130,017. PUBLISHED MAY 17, 1921.

146,189. CLOCKS, PARTS OF CLOCKS, CLOCKWORKS, WATCHES, PARTS OF WATCHES, AND WATCHWORKS. BUSER AND COMPANY, Niederdorf, Switzerland.
Filed January 22, 1921. Serial No. 142,581. PUBLISHED MAY 31, 1921.

146,190. PAPER AND PAPER-COMPOSITION FILING-CONTAINERS, MAILING-ENVELOPS, AND LETTER-FILES OF PAPER AND PAPER COMPOSITION. ALVAH BUSHNELL COMPANY, Philadelphia, Pa.
Filed February 27, 1919. Serial No. 116,179. PUBLISHED MAY 17, 1921.

146,191. COLORED WRITING-PAPER. J. W. BUTLER PAPER COMPANY, Chicago, Ill.
Filed November 22, 1920. Serial No. 139,942. PUBLISHED MAY 3, 1921.

146,192. CANNED FRUITS, BERRIES, AND VEGETABLES. CALIFORNIA PACKING CORPORATION, San Francisco, Calif.
Filed August 6, 1920. Serial No. 135,840. PUBLISHED MAY 17, 1921.

146,193. TOYS—NAMELY, SMALL MECHANICAL FIGURES DESIGNED FOR USE WITH AUTOMATIC PIANOS. CENTRAL TALKING MACHINE SHOP, (INC.), New York, N. Y.
Filed August 28, 1920. Serial No. 136,582. PUBLISHED MAY 10, 1921.

146,194. ESSENCES, FRUIT-OILS, AND SYRUP FOR BEVERAGES OF LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. CHEMICAL WORKS FLORA, Dubendorf, Switzerland.
Filed December 28, 1920. Serial No. 141,552. PUBLISHED MAY 31, 1921.

146,195. PHONOGRAPHS. CIBOLA PHONOGRAPH CORPORATION, Philadelphia, Pa.
Filed October 20, 1919. Serial No. 123,970. PUBLISHED JUNE 1, 1920.

146,196. FILTER-PAPERS, PARAFFIN-WAX PAPERS, AND TOILET-PAPERS. THE CITIZENS WHOLESALE SUPPLY COMPANY, Columbus, Ohio.
Filed February 7, 1921. Serial No. 143,258. PUBLISHED MAY 3, 1921.

146,197. FOOT POWDER AND DEODORANT. FRANK W. CLARK, Los Angeles, Calif.
Filed April 8, 1920. Serial No. 130,802. PUBLISHED APRIL 26, 1921.

146,198. SHEARS AND SCISSORS. THE CLAYTON MFG. CO., Bristol, Conn.
Filed February 17, 1921. Serial No. 143,686. PUBLISHED MAY 24, 1921.

146,199. HANDKERCHIEFS. CLUETT, PEABODY & CO INC., Troy, N. Y.
Filed February 17, 1921. Serial No. 143,683. PUBLISHED MAY 3, 1921.

146,200. COFFEE. COFFEE DAN'S INC., Detroit, Mich.
Filed February 11, 1921. Serial No. 143,431. PUBLISHED MAY 24, 1921.

146,201. A COOKING AND SHORTENING COMPOUND. ABRAHAM COHEN, Baltimore, Md.
Filed July 13, 1920. Serial No. 134,878. PUBLISHED MAY 17, 1921.

146,202. SALT. THE COLONIAL SALT COMPANY, Akron, Ohio.
Filed September 18, 1920. Serial No. 137,310. PUBLISHED APRIL 5, 1921.

146,203. WHEAT-FLOUR. THE COLORADO MILLING & ELEVATOR COMPANY, Denver, Colo., and Weiser, Idaho.
Filed March 12, 1921. Serial No. 144,665. PUBLISHED MAY 24, 1921.

146,204. COTTON-GINS, COTTON-PRESSES, AND DISTRIBUTERS, LINT-FLUES, AND BATTERY-CONDENSERS FOR COTTON-GINS. CONTINENTAL GIN CO., Birmingham, Ala.
Filed February 14, 1921. Serial No. 143,542. PUBLISHED MAY 24, 1921.

146,205. CHEWING-GUM. MERRELL S. COPELAND, Oelwein, Iowa.
Filed January 13, 1921. Serial No. 142,197. PUBLISHED MAY 24, 1921.

146,206. A VETERINARIAN AND POULTRY PREPARATION IN THE NATURE OF A TONIC AND HEALING-POWDER FOR THE TREATMENT OF ROUP IN POULTRY AND SPAVIN IN HORSES. GEO. A. CUNNING, Las Animas, Colo.
Filed March 26, 1920. Serial No. 130,213. PUBLISHED APRIL 5, 1921.

146,207. ACCOUNTING-FORMS. CURWIN'S ACCOUNTANCY CO., South Bend, Ind.
Filed December 13, 1920. Serial No. 140,989. PUBLISHED APRIL 26, 1921.

146,208. MEDICINE USED IN THE TREATMENT OF COUGHS, COLDS, CATARRH, BRONCHITIS, INFLUENZA, AND CONSUMPTION. ERIK DAHLIN, Clearbrook, Minn.
Filed January 22, 1921. Serial No. 142,610. PUBLISHED APRIL 19, 1921.

146,209. CONNECTING-ROD ALINERS. JOHN DEE, Rock Island, Ill.
Filed December 13, 1920. Serial No. 140,991. PUBLISHED MAY 17, 1921.

146,210. CANDY. DE MET AND COMPANY, Chicago, Ill.
Filed February 26, 1921. Serial No. 144,069. PUBLISHED MAY 24, 1921.

146,211. OIL-PAINT FOR FLAT WALL-FINISH. DEVOE & RAYNOLDS CO. INC., New York, N. Y.
Filed October 8, 1920. Serial No. 138,086. PUBLISHED MAY 17, 1921.

146,212. LADIES' PETTICOATS, LADIES' BLOOMERS, CORSET-COVERS, AND LADIES' UNDERSHIRTS. DORFMAN & KORMAN, New York, N. Y.
Filed October 25, 1919. Serial No. 124,171. PUBLISHED NOVEMBER 16, 1920.

146,213. CERTAIN NAMED TOILET, MEDICINAL, AND PHARMACEUTICAL PREPARATIONS. CECIL T. DUNCAN, Quincy, Mass.
Filed August 20, 1920. Serial No. 136,291. PUBLISHED MAY 17, 1921.

146,214. STEEL HOOPS, IRON HOOPS, AND WIRE. JOHN DUNN, SON & CO., New York, N. Y.
Filed December 10, 1920. Serial No. 140,869. PUBLISHED APRIL 19, 1921.

146,215. BROAD-SILK PIECE GOODS. DUPLAN SILK CORPORATION, New York, N. Y.
Filed March 18, 1921. Serial No. 144,898. PUBLISHED MAY 24, 1921.

146,216. MINERAL OIL FOR TREATMENT OF THE INTESTINES. WILLIAM N. EDENFIELD, Atlanta, Ga.
Filed October 16, 1920. Serial No. 138,380. PUBLISHED APRIL 5, 1921.

146,217. TOOTH-PASTE. LEXEY B. ELLIS, Jr., Memphis, Tenn.
Filed March 19, 1920. Serial No. 129,926. PUBLISHED NOVEMBER 9, 1920.

146,218. BLEACHED, COLORED, AND DYED COTTON AND COTTON AND SILK MIXTURES IN THE PIECE. EVERETT, HEANEY & COMPANY, INC., New York, N. Y.
Filed February 11, 1921. Serial No. 143,432. PUBLISHED MAY 24, 1921.

146,219. A MEDICINE USED IN THE TREATMENT OF RHEUMATISM. CHARLES EZERSKIS, Chicago, Ill.
Filed December 27, 1920. Serial No. 141,539. PUBLISHED MAY 31, 1921.

146,220. SPARK-PLUGS. FAN FLAME SPARK PLUG CO., INC., Yonkers, N. Y.
Filed April 1, 1921. Serial No. 145,561. PUBLISHED MAY 31, 1921.

146,221. COTTON PIECE GOODS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed July 3, 1919. Serial No. 120,252. PUBLISHED DECEMBER 9, 1919.

146,222. MUSLINS IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,294. PUBLISHED APRIL 5, 1921.

146,223. CERTAIN ARTICLES OF CLOTHING. WM. FILENE'S SONS COMPANY, Boston, Mass.
Filed November 5, 1920. Serial No. 139,204. PUBLISHED APRIL 5, 1921.

146,224. MOUTH-WASH, TOOTH-POWDER, AND TOOTH-PASTE. WILFRED E. FILTEAU, Boston, Mass.
Filed July 12, 1920. Serial No. 134,814. PUBLISHED APRIL 12, 1921.

146,225. WHEAT-FLOUR. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed March 12, 1921. Serial No. 144,674. PUBLISHED MAY 24, 1921.

146,226. LOCK-NUTS. FLANNERY BOLT COMPANY, Pittsburgh, Pa.
Filed February 8, 1921. Serial No. 143,122. PUBLISHED MAY 24, 1921.

146,227. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 30, 1921. Serial No. 145,443. PUBLISHED MAY 24, 1921.

146,228. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed March 30, 1921. Serial No. 145,444. PUBLISHED MAY 24, 1921.

146,229. TYPEWRITER-RIBBONS AND CARBON-PAPER. CHAS. A. FOYER & COMPANY, Cleveland, Ohio.
Filed December 1, 1920. Serial No. 140,490. PUBLISHED MAY 3, 1921.

146,230. BREAD. E. J. FREDERICK HANSON, Camden, N. J.
Filed March 15, 1921. Serial No. 144,770. PUBLISHED MAY 24, 1921.

146,231. OINTMENT FOR THE TREATMENT OF PILES. EMMA MARGARET GEBHARDT, Los Angeles, Calif.
Filed October 5, 1920. Serial No. 137,932. PUBLISHED APRIL 26, 1921.

146,232. PHONOGRAPHS. GENERAL MANUFACTURING CORPORATION, Milwaukee, Wis.
Filed February 7, 1920. Serial No. 128,091. PUBLISHED MAY 11, 1920.

146,233. METAL WORKING, BORING, DRILLING, AND MILLING MACHINES. GIDDINGS & LEWIS MACHINE TOOL COMPANY, Fond du Lac, Wis.
Filed October 16, 1920. Serial No. 138,381. PUBLISHED MAY 17, 1921.

146,234. TURPENTINE. SALES DEPARTMENT, GILLICAN-CHIPLEY CO., INC., New Orleans, La.
Filed January 27, 1920. Serial No. 127,661. PUBLISHED MAY 17, 1921.

146,235. MEDICINAL PREPARATION FOR PILES, HEMORRHAGES OF THE BOWELS, BOILS AND CARBUNCLES, DIARRHEA, AND GOUT. DAVID GIRARD, Detroit, Mich.
Filed October 5, 1920. Serial No. 137,931. PUBLISHED APRIL 5, 1921.

146,236. CERTAIN NAMED TOILET AND PHARMACEUTICAL PREPARATIONS. M. MARTIN GORDON, Chicago, Ill.
Filed October 30, 1920. Serial No. 138,988. PUBLISHED MAY 17, 1921.

146,237. CERTAIN NAMED FOODS. THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, Jersey City, N. J.
Filed December 22, 1919. Serial No. 126,818. PUBLISHED MAY 17, 1921.

146,238. CERTAIN NAMED TOILET PREPARATIONS. FRANCES H. GREEN, New York, N. Y.
Filed June 8, 1920. Serial No. 133,416. PUBLISHED MAY 3, 1921.

146,239. VIOLINS. GREEN MOUNTAIN VIOLIN CORPORATION, Stowe, Vt.
Filed December 13, 1920. Serial No. 140,994. PUBLISHED APRIL 26, 1921.

146,240. PAINTS. WILLIAM E. GREENE, New York, N. Y.
Filed January 12, 1921. Serial No. 142,146. PUBLISHED MAY 31, 1921.

146,241. PAPER FOR WRITING, TYPEWRITING, PRINTING, AND LITHOGRAPHING. GROVETON PAPER COMPANY, INC., Groveton, N. H.
Filed January 10, 1921. Serial No. 142,015. PUBLISHED APRIL 26, 1921.

146,242. WATCHCASES AND PARTS THEREOF, WATCHES, AND WATCH-MOVEMENTS. ROLAND A. GSELL, New York, N. Y.
Filed February 18, 1921. Serial No. 143,755. PUBLISHED MAY 31, 1921.

146,243. SILK, WOOLEN, LINEN, AND COTTON PIECE GOODS AND COMBINATIONS THEREOF. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed January 26, 1921. Serial No. 142,789. PUBLISHED MAY 24, 1921.

146,244. HAIR-TONIC. HARRODS (NORTH AMERICA) LTD., New York, N. Y.
Filed October 20, 1920. Serial No. 138,563. PUBLISHED APRIL 26, 1921.

146,245. OLEOMARGARIN. HARROW-TAYLOR BUTTER CO., Kansas City, Mo.
Filed March 10, 1921. Serial No. 144,571. PUBLISHED MAY 24, 1921.

146,246. ARTIFICIAL MINNOWS. JAMES HEDDON'S SONS, Dowagiac, Mich.
Filed December 22, 1919. Serial No. 126,821. PUBLISHED MAY 17, 1921.

146,247. MEDICINE FOR THE TREATMENT OF LUNGS. ZACHARY HESTER, Chicago, Ill.
Filed October 15, 1920. Serial No. 138,319. PUBLISHED APRIL 5, 1921.

146,248. CIGARS. H. N. HEUSNER & SON, Hanover, Pa.
Filed March 14, 1919. Serial No. 116,571. PUBLISHED JUNE 17, 1919.

146,249. CERTAIN TOOLS. GEORGE F. HICKOK, San Francisco, Calif.
Filed July 6, 1920. Serial No. 134,588. PUBLISHED MAY 17, 1921.

146,250. MUSICAL INSTRUMENTS—NAMELY, HORNS, DRUMS, WHISTLES, MUFFLERS, AND CYMBALS. HIGLEY AND MORTENSEN, San Francisco, Calif.
Filed July 6, 1920. Serial No. 134,595. PUBLISHED APRIL 26, 1921.

146,251. WORSTED AND WOOLEN TEXTILE FABRICS IN THE PIECE. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed February 15, 1921. Serial No. 143,597. PUBLISHED MAY 24, 1921.

146,252. CERTAIN NAMED TOYS. W. R. HOLLINGSHEAD COMPANY, Binghamton, N. Y.
Filed May 10, 1920. Serial No. 132,250. PUBLISHED MAY 10, 1921.

146,253. RUBBER BOOTS AND SHOES, RUBBER OVERSHOES, AND RUBBER-SOLED CANVAS SHOES. HOOD RUBBER COMPANY, Watertown, Mass.
Filed April 24, 1920. Serial No. 131,580. PUBLISHED JULY 27, 1920.

146,254. LUBRICATING-OILS. E. F. HOUGHTON & CO., Philadelphia, Pa.
Filed December 17, 1920. Serial No. 141,223. PUBLISHED MAY 31, 1921.

146,255. LUBRICATING-OILS FOR HYDRAULIC SYSTEMS. E. F. HOUGHTON & CO., Philadelphia, Pa.
Filed December 17, 1920. Serial No. 141,224. PUBLISHED MAY 31, 1921.

146,256. METAL-CUTTING OILS. E. F. HOUGHTON & CO., Philadelphia, Pa.
Filed December 17, 1920. Serial No. 141,225. PUBLISHED MAY 31, 1921.

146,257. MECHANICAL RAZOR-STROPPERS. HOWARD SPECIALTIES COMPANY, INC., New York, N. Y.
Filed December 20, 1920. Serial No. 141,304. PUBLISHED MAY 17, 1921.

146,258. BOYS' STOCKINGS. IMPERIAL HOSIERY CO., Pittsburgh, Pa.
Filed February 28, 1920. Serial No. 129,013. PUBLISHED JUNE 1, 1920.

146,259. COTTON-SEED MEAL. INDUSTRIAL COTTON OIL PROPERTIES, Boston, Mass., assignors to The American Cotton Oil Company, a Corporation of New Jersey.
Filed December 18, 1920. Serial No. 141,269. PUBLISHED MAY 31, 1921.

146,260. TRACTORS. INLAND AMERICAN TRACTOR COMPANY, Eau Claire, Wis.
Filed March 5, 1920. Serial No. 129,260. PUBLISHED MAY 17, 1921.

146,261. CHEMICAL INSECT-EXTERMINATORS. THE INTERNATIONAL CHEMICAL COMPANY, Cleveland, Ohio.
Filed October 25, 1920. Serial No. 138,767. PUBLISHED APRIL 19, 1921.

146,262. WHEAT-FLOUR. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Kans., and Kansas City, Mo.
Filed February 14, 1921. Serial No. 143,560. PUBLISHED MAY 24, 1921.

146,263. SALAD-OIL. ITALY COMMERCIAL CO., New York, N. Y.
Filed February 9, 1921. Serial No. 143,357. PUBLISHED MAY 3, 1921.

146,264. CAKES. ITEN BISCUIT CO., Clinton, Iowa.
Filed December 21, 1920. Serial No. 141,374. PUBLISHED MAY 31, 1921.

146,265. GIRLS' AND LADIES' BLOUSES, DRESSES, COATS, AND SMOCKS. JACOBS BROTHERS, Baltimore, Md.
Filed January 24, 1919. Serial No. 115,406. PUBLISHED OCTOBER 7, 1919.

146,266. PRINTING-INKS. JAENECKE-ADLT COMPANY, Newark, N. J.
Filed December 16, 1920. Serial No. 141,173. PUBLISHED MAY 3, 1921.

146,267. READY-MIXED CAKE-FLOUR. THE JIFFO COMPANY, INCORPORATED, Little Rock, Ark.
Filed August 8, 1919. Serial No. 121,896. PUBLISHED JUNE 8, 1920.

146,268. ENGLISH TOFFEE. WILLIAM J. KELLEHER, Toronto, Ontario, Canada.
Filed January 6, 1921. Serial No. 141,908. PUBLISHED MAY 31, 1921.

146,269. COFFEE. KELLEY BROTHERS, Detroit, Mich.
Filed February 1, 1921. Serial No. 143,051. PUBLISHED MAY 31, 1921.

146,270. CERTAIN NAMED REMEDY FOR THE SCALP AND HAIR. JULIUS C. KELLEY, Birmingham, Ala.
Filed April 8, 1920. Serial No. 130,835. PUBLISHED MAY 3, 1921.

146,271. BUTTER. EARL KENT, Tacoma, Wash.
Filed December 18, 1920. Serial No. 141,270. PUBLISHED MAY 31, 1921.

146,272. SALVE. MRS. ADALINE KIRBY, Columbus, Ohio.
Filed March 26, 1921. Serial No. 145,274. PUBLISHED MAY 3, 1921.

146,273. TOY CARS FOR CHILDREN. SAMUEL KLEIN, Philadelphia, Pa.
Filed May 29, 1920. Serial No. 133,095. PUBLISHED APRIL 19, 1921.

146,274. CHILD'S TOY VEHICLE. AUGUST C. KLENKE, San Francisco, Calif.
Filed April 20, 1920. Serial No. 131,392. PUBLISHED MAY 17, 1921.

146,275. ANTISEPTIC MOUTH-WASH. KNIGHT AND CO., INC., Lancaster, Pa.
Filed September 28, 1920. Serial No. 137,704. PUBLISHED APRIL 12, 1921.

146,276. LENSES FOR MOTION-PICTURE PROJECTION AND SIMILAR PURPOSES. KOLLMORGEN OPTICAL CORPORATION, Brooklyn, N. Y.
Filed January 19, 1921. Serial No. 142,440. PUBLISHED MAY 24, 1921.

146,277. LENSES FOR MOTION-PICTURE PROJECTION AND SIMILAR PURPOSES. KOLLMORGEN OPTICAL CORPORATION, Brooklyn, N. Y.
Filed January 19, 1921. Serial No. 142,439. PUBLISHED MAY 24, 1921.

146,278. A RECONSTRUCTIVE TONIC IN TABLET FORM. LAX-TON-ALL CO., New York, N. Y.
Filed April 20, 1920. Serial No. 131,397. PUBLISHED SEPTEMBER 28, 1920.

146,279. MEDICINE FOR COUGHS, BRONCHITIS, CONSUMPTION, COLDS, AND DISEASES OF THE THROAT AND LUNGS. JOSEPH H. LEE, Elmira Heights, N. Y.
Filed August 7, 1920. Serial No. 135,894. PUBLISHED APRIL 26, 1921.

146,280. PREPARATION FOR THE RELIEF OF COUGHS, COLDS, SORE THROAT, AND CATARRH. PHILIAS B. LE SIEUR, Boston, Mass.
Filed June 24, 1920. Serial No. 134,136. PUBLISHED APRIL 5, 1921.

146,281. CERTAIN ARTICLES OF CLOTHING. THE LIBERTY MANUFACTURING CO., Baltimore, Md.
Filed December 8, 1920. Serial No. 140,568. PUBLISHED APRIL 12, 1921.

146,282. AUTOMOBILE AIR AND WATER FILLING POSTS. WILLIAMS-LOPER, Oshkosh, Wis.
Filed February 28, 1921. Serial No. 143,971. PUBLISHED MAY 24, 1921.

146,283. HAIR-NETS. FRANK E. LOW, Paterson, N. J.
Filed March 7, 1921. Serial No. 144,399. PUBLISHED MAY 24, 1921.

146,284. CERTAIN NAMED TOILET PREPARATIONS. KORA M. LUBLIN, New York, N. Y.
Filed April 15, 1920. Serial No. 131,181. PUBLISHED APRIL 5, 1921.

146,285. ELECTRIC-LIGHT-DIFFUSING FIXTURES. LUMINOUS SPECIALTY COMPANY, Indianapolis, Ind.
Filed April 6, 1921. Serial No. 145,790. PUBLISHED MAY 31, 1921.

146,286. A HAIR-DRESSING. LUTHFAR RAHMAN, Chicago, Ill.
Filed November 20, 1920. Serial No. 139,909. PUBLISHED APRIL 26, 1921.

146,287. SELF-RISING WHEAT-FLOUR. THE J. C. LYSLE MILLING COMPANY, Leavenworth, Kans.
Filed March 12, 1921. Serial No. 144,677. PUBLISHED MAY 24, 1921.

146,288. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,515. PUBLISHED MAY 24, 1921.

146,289. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,516. PUBLISHED MAY 24, 1921.

146,290. SILK PIECE GOODS. H. R. MALLINSON & CO., INC., New York, N. Y.
Filed January 20, 1921. Serial No. 142,517. PUBLISHED MAY 24, 1921.

146,291. CERTAIN METALLIC KITCHEN AND COOKING UTENSILS. MANUFACTURE METALLURIQUE DE TOURNUS, Tournus, France.
Filed May 4, 1920. Serial No. 132,020. PUBLISHED MAY 17, 1921.

146,292. SHEEP AND CATTLE. WILLARD S. MARTIN, Plainfield, Vt.
Filed January 20, 1921. Serial No. 142,506. PUBLISHED MAY 24, 1921.

146,293. METAL-LEAF. H. MARUI & CO., New York, N. Y.
Filed September 13, 1920. Serial No. 137,135. PUBLISHED MAY 17, 1921.

146,294. WATCHES. THE MASTER JEWELERS INC., New York, N. Y.
Filed January 21, 1920. Serial No. 127,439. PUBLISHED MAY 25, 1920.

146,295. TANNING MATERIALS. HAROLD M. MCARTHUR & CO. LIMITED, Liverpool, England.
Filed October 26, 1920. Serial No. 138,820. PUBLISHED APRIL 12, 1921.

146,296. ELECTRIC DISH-WASHING MACHINES AND PARTS THEREOF. MERMAID DISH WASHER COMPANY, Middletown, Conn.
Filed October 29, 1920. Serial No. 138,952. PUBLISHED MAY 17, 1921.

146,297. MIDDY-BLOUSES. Z. AND S. MIDDY CO., New York, N. Y.
Filed March 6, 1920. Serial No. 129,365. PUBLISHED MAY 18, 1920.

146,298. SELF-RISING WHEAT-FLOUR AND WHEAT-FLOUR. THE MIDLAND FLOUR MILLING CO., Kansas City, Mo.
Filed March 12, 1921. Serial No. 144,680. PUBLISHED MAY 24, 1921.

146,299. WORSTEDS AND WOOLENS, BOTH IN THE PIECE. MONTROSE WORSTED COMPANY, Woonsocket, R. I., and New York, N. Y.
Filed February 27, 1920. Serial No. 128,977. PUBLISHED MAY 17, 1921.

146,300. GINGHAMS, ZEPHYRS, AND CHEVIOTS IN THE PIECE. WILLIAM R. MOORE DRY GOODS COMPANY, Memphis, Tenn.
Filed March 5, 1920. Serial No. 129,274. PUBLISHED MAY 17, 1921.

146,301. PREPARATIONS FOR THE HAIR AND SCALP. VIOLA B. MULLINS, Jacksonville, Fla.
Filed October 5, 1920. Serial No. 137,953. PUBLISHED MAY 17, 1921.

146,302. OILS USED IN TREATING TEXTILE FABRICS. NAAMLOOZE VENNOOTSCHAP OLIEFABRIEKEN INSULINDE, Amsterdam, Netherlands.
Filed August 7, 1920. Serial No. 135,898. PUBLISHED MAY 17, 1921.

146,303. A PAINT AND VARNISH REMOVER. JOSEPH NACOL, Eunice, La.
Filed October 16, 1920. Serial No. 138,401. PUBLISHED MAY 17, 1921.

146,304. FRESH AND PRESERVED POMEGRANATES. NATIVE SON ORCHARDS CO., Lindsay, Calif.
Filed January 12, 1921. Serial No. 142,161. PUBLISHED MAY 31, 1921.

146,305. A MONTHLY PERIODICAL. NATIONAL BANK OF COMMERCE IN NEW YORK, New York, N. Y.
Filed June 22, 1921. Serial No. 149,522.

146,306. DRY BATTERIES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed February 24, 1921. Serial No. 143,993. PUBLISHED MAY 31, 1921.

146,307. HIGH-GRADE CIGARS. JULIUS C. NEWMAN, Cleveland, Ohio.
Filed July 16, 1914. Serial No. 79,855. PUBLISHED MAY 10, 1921.

146,308. MALT BEVERAGES, CEREAL BEVERAGES, MALT EXTRACTS, AND MALT TONICS. VICTOR NEUSTADTL, New York, N. Y.
Filed November 6, 1920. Serial No. 139,297. PUBLISHED MAY 17, 1921.

146,309. WOVEN COTTON PIECE GOODS—NAMELY, GRAY COTTON GOODS. NEUSS, HESSLEIN & CO. INC., New York, N. Y.
Filed March 5, 1921. Serial No. 144,347. PUBLISHED MAY 24, 1921.

146,310. CERTAIN NAMED FOODS. NEW YORK STORE MERCANTILE COMPANY, Cairo, Ill.
Filed February 1, 1921. Serial No. 143,055. PUBLISHED MAY 31, 1921.

146,311. MEDICINE FOR THE TREATMENT OF EPILEPSY AND NERVOUS TROUBLES. MICHAEL NICHOLSON, Worcester, Mass.
Filed October 2, 1920. Serial No. 137,848. PUBLISHED APRIL 19, 1921.

146,312. A LIQUID MEDICINAL PREPARATION FOR THE TREATMENT OF TUBERCULOSIS. HODGE W. NORMAN, Phoenix, Ariz.
Filed December 2, 1920. Serial No. 140,540. PUBLISHED MAY 10, 1921.

146,313. HAIR-NETS. NORTH AMERICAN GINSENG CO., INC., New York, N. Y., assignor to Namco Products Corporation, New York, N. Y., a Corporation of New York.
Filed April 2, 1921. Serial No. 145,641. PUBLISHED MAY 24, 1921.

146,314. POULTRY AND DAIRY FEED. NORTHRUP, KING & Co., Minneapolis, Minn.
Filed January 11, 1921. Serial No. 142,091. PUBLISHED MAY 31, 1921.

146,315. OLEOMARGARIN. NUT GROVE BUTTER COMPANY, Providence, R. I.
Filed March 21, 1921. Serial No. 145,036. PUBLISHED MAY 24, 1921.

146,316. OLEOMARGARIN. NUT GROVE BUTTER COMPANY, Providence, R. I.
Filed March 21, 1921. Serial No. 145,037. PUBLISHED MAY 24, 1921.

146,317. CERTAIN MACHINERY AND TOOLS. OIL WELL SUPPLY COMPANY, Pittsburgh, Pa.
Filed June 23, 1920. Serial No. 134,085. PUBLISHED MAY 17, 1921.

146,318. IMITATION OR ARTIFICIAL PEARLS. FRANK C. OSMERS, New York, N. Y.
Filed February 28, 1919. Serial No. 116,207. PUBLISHED JUNE 15, 1920.

146,319. NON-NARCOTIC CAPSULES FOR USE IN AFTER-EXTRACTION PAINS, ESPECIALLY AFTER USING NOVOCAIN, PROCAIN, &c. PACSULES LABORATORIES, Sioux City, Iowa.
Filed October 5, 1920. Serial No. 137,916. PUBLISHED APRIL 12, 1921.

146,320. CHOCOLATE, COCOA POWDER, AND COCOA-BUTTER. PAGE & SHAW, INC., Cambridge, Mass.
Filed February 3, 1921. Serial No. 143,138. PUBLISHED MAY 31, 1921.

146,321. CIGARS. PAN-AMERICAN CIGAR MANUFACTURING Co., Dover, Del., and Washington, D. C.
Filed August 25, 1920. Serial No. 136,480. PUBLISHED MAY 17, 1921.

146,322. PERFUMES, TOILET WATERS, FACE-POWDERS, LIQUID LOTION FOR THE SKIN, SACHETS, SACHET-POWDERS, AND BRILLIANTINE. PARFUMERIE HOUBIGANT, Paris, France, assignor to Houbigant, Inc., New York, N. Y., a Corporation of New York.
Filed November 12, 1920. Serial No. 139,574. PUBLISHED MAY 10, 1921.

146,323. PERFUMES, TOILET WATERS, SACHET, AND SACHET-POWDERS. PARFUMERIE HOUBIGANT, Paris, France, assignor to Houbigant, Inc., New York, N. Y., a Corporation of New York.
Filed November 12, 1920. Serial No. 139,573. PUBLISHED MAY 10, 1921.

146,324. CHEMICAL CARBON-REMOVERS. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed September 23, 1920. Serial No. 137,541. PUBLISHED APRIL 26, 1921.

146,325. TALKING-MACHINES. HENRY PAULSON, Chicago, Ill.
Filed January 22, 1920. Serial No. 127,485. PUBLISHED JUNE 15, 1920.

146,326. DOLL FURNITURE—NAMELY, TOY DRESSERS, DRESSER-BENCHES, BUREAUS, DAY-BEDS, DINING-TABLES, LIBRARY-TABLES, CHIFFONNIERS, CHINA-CLOSETS, AND CHAIRS. A. S. PAYNE INC., North Bennington, Vt.
Filed September 1, 1920. Serial No. 136,719. PUBLISHED MAY 10, 1921.

146,327. CERTAIN NAMED FOOD FOR POULTRY, CHICKENS, HORSES, AND MULES. PEASE & DWYER Co., Memphis, Tenn.
Filed January 20, 1921. Serial No. 142,526. PUBLISHED MAY 24, 1921.

146,328. CERTAIN NAMED FEED FOR HORSES, MULES, HOGS, AND HENS. PEASE & DWYER Co., Memphis, Tenn.
Filed January 20, 1921. Serial No. 142,522. PUBLISHED MAY 24, 1921.

146,329. GRAIN FEED COMPOSED OF CORN, OATS, ALFALFA-MEAL, AND MOLASSES. PEASE & DWYER Co., Memphis, Tenn.
Filed January 20, 1921. Serial No. 142,529. PUBLISHED MAY 31, 1921.

146,330. POLISH FOR FURNITURE, AUTOMOBILES, AND FLOORS, FLOOR-WAX IN BOTH PASTE AND LIQUID FORMS. PENSCO PRODUCTS Co., Dayton, Ohio.
Filed January 21, 1920. Serial No. 127,445. PUBLISHED MAY 17, 1921.

146,331. PREPARATION FOR REMOVING HAIR. M. H. PHARMACAL CO., (INC.,) Chicago, Ill.
Filed October 11, 1920. Serial No. 138,186. PUBLISHED APRIL 19, 1921.

146,332. HENNA SHAMPOO. PHILO HAY COMPANY, Newark, N. J.
Filed October 15, 1920. Serial No. 138,336. PUBLISHED APRIL 12, 1921.

146,333. VELOCIPEDES. PLATT-RUBIN COMPANY, Chicago, Ill.
Filed March 15, 1920. Serial No. 129,743. PUBLISHED MAY 17, 1921.

146,334. EGGS. POULTRY PRODUCERS OF CENTRAL CALIFORNIA, INC., San Francisco, Calif.
Filed July 8, 1920. Serial No. 134,725. PUBLISHED MAY 10, 1921.

146,335. EGGS. POULTRY PRODUCERS OF CENTRAL CALIFORNIA, INC., San Francisco, Calif.
Filed February 1, 1921. Serial No. 143,059. PUBLISHED MAY 24, 1921.

146,336. RUBBER ROLLERS FOR ALL INKING-PRESSES. PROGRESS ROLLER COMPANY, Omaha, Nebr.
Filed November 27, 1920. Serial No. 140,346. PUBLISHED MAY 17, 1921.

146,337. COCOANUT-OIL. THE PROCTER AND GAMBLE COMPANY, Cincinnati, Ohio.
Filed February 5, 1921. Serial No. 143,218. PUBLISHED MAY 24, 1921.

146,338. OIL FOR TREATMENT OF ROAD-SURFACES. THE PURE OIL COMPANY, Columbus, Ohio.
Filed March 5, 1921. Serial No. 144,350. PUBLISHED MAY 31, 1921.

146,339. LEATHER AND RUBBER BELTING. REPUBLIC BELTING COMPANY, INC., Baltimore, Md.
Filed June 24, 1920. Serial No. 134,144. PUBLISHED NOVEMBER 23, 1920.

146,340. BANK-CHECKS. REHM POOLE, New York, N. Y.
Filed December 8, 1920. Serial No. 140,804. PUBLISHED MAY 17, 1921.

146,341. INSECTICIDES. RICHTER BROS., Hartford, Conn.
Filed December 1, 1920. Serial No. 140,505. PUBLISHED MAY 10, 1921.

146,342. MEDICINAL PREPARATION FOR CERTAIN NAMED PURPOSES. JOSEPH ROBERT, Paris, France.
Filed June 4, 1920. Serial No. 133,281. PUBLISHED APRIL 5, 1921.

146,343. MEMORANDUM-BOOKS AND FILLERS THEREFOR. ROBINSON MANUFACTURING Co., Westfield, Mass.
Filed July 17, 1920. Serial No. 135,112. PUBLISHED MAY 17, 1921.

146,344. CERTAIN NAMED INSTRUMENTS OF PRECISION, DRAWING INSTRUMENTS, BLUE AND BROWN PRINT, PAPERS AND CLOTHS. CHARLES H. ROBBINS, Philadelphia, Pa.
Filed August 25, 1920. Serial No. 136,489. PUBLISHED MAY 17, 1921.

146,345. CANDY, PEANUT-BUTTER, AND MARSHMALLOW SUNDAE. THE ROOD CANDY Co., Pueblo, Colo.
Filed February 11, 1921. Serial No. 143,455. PUBLISHED MAY 24, 1921.

146,346. CHEESE. J. C. RUDOLPH & COMPANY, INC., Chicago, Ill.
Filed March 17, 1921. Serial No. 144,877. PUBLISHED MAY 24, 1921.

146,347. CERTAIN NAMED SALVE OR OINTMENT FOR EXTERNAL USES. ANDREW H. RYAN, Oilton, Okla.
Filed March 16, 1920. Serial No. 129,807. PUBLISHED MAY 3, 1921.

146,348. SILK-WARP HENRIETTAS, SILK AND WOOL BLACK DRESS GOODS, AND CASHMERES IN THE PIECE. W. W. RYCROFT & Co., New York, N. Y.
Filed October 21, 1920. Serial No. 138,652. PUBLISHED MAY 17, 1921.

146,349. SPARK-PLUGS. ABE SAMSON, Cedarhurst, N. Y.
Filed September 26, 1919. Serial No. 123,174. PUBLISHED MAY 17, 1921.

146,350. HAIR-NETS. SAMSTAG & HILDEB BROS., New York, N. Y.
Filed March 24, 1921. Serial No. 145,173. PUBLISHED MAY 24, 1921.

146,351. STOCK AND POULTRY FOOD. JOHN JOSEPH SCHREIBER, Minneapolis, Minn.
Filed January 12, 1921. Serial No. 142,143. PUBLISHED APRIL 26, 1921.

146,352. MATERIAL FOR MANUFACTURING HOME BREW, COMPRISING PRINCIPALLY HOPS, MALT, FLAVORING, AND GELATIN. SCHRUMM-SCHRUMM Co., Chicago, Ill.
Filed March 14, 1921. Serial No. 144,745. PUBLISHED MAY 31, 1921.

146,353. CANNED FRUITS AND CANNED SALMON. MAX SCHUCKL, San Francisco, Calif.
Filed January 12, 1921. Serial No. 142,167. PUBLISHED MAY 31, 1921.

146,354. A BLUING FOR WOOL AND SILK. LILLIAN E. SCOFIELD, New York, N. Y.
Filed December 11, 1920. Serial No. 140,968. PUBLISHED MAY 3, 1921.

146,355. PAPER TOWELS AND PAPER NAPKINS. SCOTT PAPER COMPANY, Chester, Pa.
Filed January 27, 1921. Serial No. 142,861. PUBLISHED APRIL 26, 1921.

146,356. A GENERAL TONIC, LAXATIVE, AND DIURETIC FOR STOMACH TROUBLES. SCRANTON DISTRIBUTING AND MANUFACTURING COMPANY, Scranton, Pa.
Filed October 29, 1920. Serial No. 138,963. PUBLISHED MAY 17, 1921.

146,357. A POLISH FOR WOODWORK, TABLES, AND FLOORS. ALEX. D. SHAW & Co., New York, N. Y.
Filed February 5, 1920. Serial No. 128,022. PUBLISHED MAY 17, 1921.

146,358. HARMONICAS OR MOUTH-ORGANS. SHERMAN, CLAY & Co., San Francisco, Calif.
Filed December 18, 1919. Serial No. 126,234. PUBLISHED MAY 17, 1921.

146,359. CHILDREN'S PLAY-SUITS. SHERMAN OVERALL MANUFACTURING COMPANY, Sherman, Tex.
Filed August 6, 1920. Serial No. 135,874. PUBLISHED JANUARY 18, 1921.

146,360. PEANUT-BUTTER. SHORT, PHILIPS & HEALY INC., Seattle, Wash.
Filed January 15, 1921. Serial No. 142,301. PUBLISHED MAY 24, 1921.

146,361. BILLS OF EXCHANGE. RAPHAEL SIMS, Pennsboro, W. Va.
Filed February 27, 1920. Serial No. 128,985. PUBLISHED APRIL 26, 1921.

146,362. LUBRICATING-OILS. SINCLAIR REFINING COMPANY, Chicago, Ill.
Filed January 26, 1921. Serial No. 142,814. PUBLISHED MAY 31, 1921.

146,363. SILK AND SATIN GOODS IN THE PIECE. WILLIAM SKINNER & SONS, New York, N. Y., and Holyoke, Mass.
Filed February 4, 1921. Serial No. 143,190. PUBLISHED MAY 24, 1921.

146,364. SILK AND SATIN GOODS IN THE PIECE. WILLIAM SKINNER & SONS, New York, N. Y., and Holyoke, Mass.
Filed February 4, 1921. Serial No. 143,192. PUBLISHED MAY 24, 1921.

146,365. FRESH CITRUS FRUITS AND FRESH TOMATOES. SAMUEL JEFFERSON SLIGH, Orlando, Fla.
Filed February 1, 1921. Serial No. 143,065. PUBLISHED MAY 31, 1921.

146,366. ANTISEPTIC SOLUTION. C. D. SMITH DRUG Co., St. Joseph, Mo.
Filed October 20, 1920. Serial No. 138,607. PUBLISHED APRIL 12, 1921.

146,367. A PAINT WITHSTANDING HIGH TEMPERATURE. DAVID C. SMITH, Schenectady, N. Y.
Filed December 17, 1920. Serial No. 141,244. PUBLISHED MAY 31, 1921.

146,368. MOUTH-WASH. WILLIAM A. SMITH, New York, N. Y.
Filed October 14, 1920. Serial No. 138,307. PUBLISHED APRIL 19, 1921.

146,369. PERFUMERY, FACIAL PAINTS, DENTIFRICES, AND COLORING-TINCTURES. SOCIETE ANONYME PARFUMERIE SAVONNERIE GILOT, Paris, France.
Filed October 6, 1920. Serial No. 138,024. PUBLISHED APRIL 26, 1921.

146,370. RUBBER AND RUBBER AND COMPOSITION TIRES AND TUBES. THE SPRECKELS "SAVAGE" TIRE COMPANY, San Diego, Calif.
Filed June 29, 1920. Serial No. 134,394. PUBLISHED MAY 24, 1921.

146,371. CANDY—NAMELY, FUDGE. W. V. & L. M. STEERE, Boston, Mass.
Filed February 5, 1921. Serial No. 143,229. PUBLISHED MAY 24, 1921.

146,372. PETROLEUM LUBRICATING-OILS. STOLL-OIL REFINING Co., Louisville, Ky.
Filed January 19, 1921. Serial No. 142,456. PUBLISHED MAY 31, 1921.

146,373. KNITTING-MACHINE SINKERS. HENRY STUEBNER, Philadelphia, Pa.
Filed February 23, 1921. Serial No. 143,965. PUBLISHED MAY 24, 1921.

146,374. NON-ALCOHOLIC, MALTLESS, NON-CEREAL, BEVERAGE TO BE SOLD AS A SOFT DRINK. WILLIAM B. SWAYZEE, Winterset, Iowa.
Filed April 28, 1920. Serial No. 131,755. PUBLISHED AUGUST 3, 1920.

146,375. DYES. TAH CHANG SEN & Co., Shanghai, China.
Filed May 24, 1920. Serial No. 132,895. PUBLISHED JUNE 21, 1921.

146,376. MECHANICAL BLADE-STROPPERS. TARANTELLA COMPANY, New York, N. Y.
Filed February 15, 1921. Serial No. 143,631. PUBLISHED MAY 24, 1921.

146,377. CANNED FRUITS AND CANNED VEGETABLES. THOMAS-BODY COMPANY, San Francisco, Calif.
Filed December 30, 1920. Serial No. 141,701. PUBLISHED MAY 31, 1921.

146,378. A PREPARATION FOR THE ELIMINATION OF WORMS IN CATTLE. J. DAVIS THOMAS, Round Hill, Va.
Filed March 17, 1920. Serial No. 129,866. PUBLISHED APRIL 26, 1921.

146,379. PIPE-COUPLINGS. TITEFLEX METAL HOSE CORPORATION, Newark, N. J.
Filed February 5, 1921. Serial No. 143,226. PUBLISHED MAY 24, 1921.

146,380. FINGER-RINGS. TRAUB MANUFACTURING COMPANY, Detroit, Mich.
Filed December 6, 1920. Serial No. 140,696. PUBLISHED APRIL 26, 1921.

146,381. GASOLENE-ENGINES. TURNER & MOORE MFG. Co., Detroit, Mich.
Filed January 17, 1921. Serial No. 142,366. PUBLISHED MAY 24, 1921.

146,382. SHOES MADE OF LEATHER, FABRIC, OR COMBINATION OF LEATHER AND FABRIC. UNITED DRUG COMPANY, Boston, Mass.
Filed January 26, 1920. Serial No. 127,623. PUBLISHED JUNE 8, 1920.

146,383. ELECTRICALLY-OPERATED VACUUM-CLEANERS. THE UNITED ELECTRIC COMPANY, Canton, Ohio.
Filed February 12, 1920. Serial No. 128,332. PUBLISHED MARCH 29, 1921.

146,384. FLASH-LIGHT CASES AND ELECTRIC BATTERIES. UNITED STATES ELECTRIC MANUFACTURING CORPORATION, New York, N. Y.
Filed March 1, 1920. Serial No. 129,102. PUBLISHED JUNE 1, 1920.

146,385. READY-MIXED PAINTS. UNITED STATES GUTTA PERCHA PAINT COMPANY, Saco, Me., and Providence, R. I.
Filed October 11, 1920. Serial No. 138,193. PUBLISHED MAY 17, 1921.

146,386. A TONIC FOR HOGS AND CHICKENS. UNITED STOCK REMEDIES CO., Atlanta, Ga.
Filed September 22, 1920. Serial No. 137,505. PUBLISHED APRIL 26, 1921.

146,387. CERTAIN SCREW-THREADING TOOLS. UNION TWIST DRILL COMPANY, Athol and Mansfield, Mass.
Filed December 15, 1920. Serial No. 141,144. PUBLISHED MAY 17, 1921.

146,388. NON-ALCOHOLIC NEAR BEER, MALT TONIC AND SYRUP CONTAINING LESS THAN ONE-HALF OF ONE PER CENT. ALCOHOL, BY VOLUME. VAL BLATZ BREWING COMPANY, Milwaukee, Wis.
Filed January 17, 1921. Serial No. 142,322. PUBLISHED MAY 31, 1921.

146,389. DATES. VAN DYK AND REEVES, Brooklyn, N. Y.
Filed February 1, 1921. Serial No. 143,070. PUBLISHED MAY 24, 1921.

146,390. COCOA. C. J. VAN HOUTEN & ZOON, Weesp, Netherlands, and Chicago, Ill.
Filed October 9, 1920. Serial No. 138,150. PUBLISHED MAY 17, 1921.

146,391. TONIC AND APPETIZER FOR INFLUENZA, INDIGESTION, LOSS OF APPETITE, CONSUMPTION, STOMACH TROUBLE, AND COLDS. THE VEDO MEDICINE COMPANY, Canton, Ohio.
Filed August 24, 1920. Serial No. 136,447. PUBLISHED MAY 17, 1921.

146,392. OLEOMARGARIN. VERMONT BUTTERINE CO., INC., Providence, R. I.
Filed March 25, 1921. Serial No. 145,246. PUBLISHED MAY 24, 1921.

146,393. COFFEE, TEA, AND SPICES. WABASH BAKING POWDER COMPANY, Wabash, Ind.
Filed February 1, 1921. Serial No. 143,075. PUBLISHED MAY 31, 1921.

146,394. LIQUID PAINT FOR INTERIOR FINISH. WADSWORTH, HOWLAND & CO., INCORPORATED, Boston, Mass.
Filed October 16, 1920. Serial No. 138,420. PUBLISHED MAY 17, 1921.

146,395. BARN-PAINT. WADSWORTH-HOWLAND COMPANY, Chicago, Ill.
Filed December 28, 1920. Serial No. 141,619. PUBLISHED MAY 31, 1921.

146,396. MIXED PAINT, VARNISH, ENAMEL FOR DECORATIVE PURPOSES, AND LIQUID WOOD-FILLER. WADSWORTH-HOWLAND COMPANY, Chicago, Ill.
Filed December 28, 1920. Serial No. 141,620. PUBLISHED MAY 31, 1921.

146,397. A PIGMENT HAVING A COMBINATION OF PURPOSES. E. M. & F. WALDO, New York, N. Y.
Filed August 13, 1920. Serial No. 136,108. PUBLISHED APRIL 26, 1921.

146,398. A CHEMICAL USED IN THE MANUFACTURE OF RUBBER. E. M. & F. WALDO, New York, N. Y.
Filed September 18, 1920. Serial No. 137,343. PUBLISHED APRIL 26, 1921.

146,399. A PIGMENT HAVING A COMBINATION OF PURPOSES. E. M. & F. WALDO, New York, N. Y.
Filed September 18, 1920. Serial No. 137,344. PUBLISHED APRIL 26, 1921.

146,400. VALVES FOR CONTROLLING STEAM AND WATER. WARREN WEBSTER & COMPANY, Camden, N. J.
Filed March 18, 1921. Serial No. 144,950. PUBLISHED MAY 24, 1921.

146,401. WALL-PAPER. HARRY W. WEBSTER, Toledo, Ohio.
Filed March 26, 1920. Serial No. 130,214. PUBLISHED MAY 17, 1921.

146,402. FROGS, GUARD-RAIL CLAMPS, RAIL-BRACES, TIES. THE WEIR FROG COMPANY, Norwood, Ohio.
Filed February 12, 1920. Serial No. 128,334. PUBLISHED MAY 17, 1921.

146,403. INTERNAL-COMBUSTION ENGINES. WHEELY MOTORS COMPANY, Indianapolis, Ind.
Filed June 5, 1919. Serial No. 119,257. PUBLISHED MAY 17, 1921.

146,404. WRAPPING-PAPER. THE WHITAKER PAPER COMPANY, Baltimore, Md.
Filed December 30, 1920. Serial No. 141,708. PUBLISHED MAY 31, 1921.

146,405. CERTAIN DRAWING AND SURVEYING INSTRUMENTS. DAVID WHITE CO., INC., Milwaukee, Wis.
Filed October 30, 1920. Serial No. 138,981. PUBLISHED MAY 17, 1921.

146,406. WATERPROOF PAPERS. J. J. WHITE PAPER CO., Canton, Mass.
Filed February 10, 1921. Serial No. 143,417. PUBLISHED APRIL 26, 1921.

146,407. WOVEN-WIRE SCREEN-CLOTH. WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass.
Filed March 23, 1921. Serial No. 145,142. PUBLISHED MAY 24, 1921.

146,408. BITTER STOMACH-TONIC. THE WILLS MANUFACTURING CO., Scranton, Pa.
Filed July 30, 1920. Serial No. 135,629. PUBLISHED APRIL 26, 1921.

146,409. COFFEE. D. C. WINEBRENER & SON, INC., Frederick, Md.
Filed February 17, 1921. Serial No. 143,724. PUBLISHED MAY 24, 1921.

146,410. LINEN CRASH. WYMAN PARTRIDGE & CO., Minneapolis, Minn.
Filed January 14, 1920. Serial No. 127,167. PUBLISHED MAY 17, 1921.

146,411. AUTOMOBILES. YELLOW CAB MANUFACTURING CO., Chicago, Ill.
Filed February 23, 1921. Serial No. 143,903. PUBLISHED MAY 31, 1921.

146,412. HAIR-TONICS. YVETTE CO., New York, N. Y.
Filed February 12, 1920. Serial No. 128,336. PUBLISHED MAY 17, 1921.

146,413. TEA. SAMUEL ZECHNOWITZ, New York, N. Y.
Filed September 14, 1920. Serial No. 137,191. PUBLISHED MAY 17, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

SEPTEMBER 6, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

146,414. (CLASS 37. PAPER AND STATIONERY.) A. P. W. PAPER CO., Albany, N. Y. Filed Aug. 23, 1920. Serial No. 136,351.

NOTCH OVAL

Particular description of goods.—Toilet-Paper.
Claims use since February, 1913.

146,415. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) A. THEO. ABBOTT & CO., Philadelphia, Pa. Filed May 21, 1921. Serial No. 148,012.

KAPOCK

Particular description of goods.—A Fiber Fabric Imitating Silk in the Piece and Made-Up Draperies, Wall-Coverings, Furniture-Coverings, Drapery Pair Goods, Portières, Couch-Covers, Table-Covers, Table-Scarfs, Pillow-Tops, Pillow-Slips, and Edgings of said Fabric.
Claims use since about Aug. 15, 1913.

146,416. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ACME CABINET COMPANY, Kansas City, Mo. Filed July 26, 1920. Serial No. 135,394.

Marlow

The drawing is lined to indicate that the word is printed in yellow or gold.
Particular description of goods.—Phonographs.
Claims use since May 8, 1920.

146,417. (CLASS 12. CONSTRUCTION MATERIALS.) ADAMS & JEWELL, Rome, N. Y. Filed May 7, 1921. Serial No. 147,331.

Hi-Heat Cement

Particular description of goods.—Refractory Cement and High-Temperature Cements.
Claims use since Nov. 1, 1915.

146,418. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) ALEXANDER CABINET COMPANY, Hanover, Pa. Filed Mar. 24, 1921. Serial No. 145,147.

The Hanover PHONOGRAPH

The lining on the drawing indicates shading only.
Particular description of goods.—Talking-Machines.
Claims use since Aug. 1, 1919.

146,419. (CLASS 10. FERTILIZERS.) THE AMERICAN AGRICULTURAL CHEMICAL COMPANY, New York, N. Y. Filed Mar. 16, 1921. Serial No. 144,795.

THE WORLD'S BEST BY EVERY TEST

Particular description of goods.—Fertilizer.
Claims use since Apr. 7, 1900.

146,420. (CLASS 7. CORDAGE.) AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y. Filed Dec. 16, 1920. Serial No. 141,149.

CAPSTAN

Particular description of goods.—Rope, Cord, and Twine Manufactured from Vegetable Fiber.
Claims use since June 7, 1906.

146,421. (CLASS 15. OILS AND GREASES.) AMERICAN STATIONERY MFG. CO., New York, N. Y. Filed May 24, 1921. Serial No. 148,105.

"BALLENA"



Particular description of goods.—Lubricating Oils and Greases.
Claims use since Sept. 9, 1919.

146,422. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed June 25, 1921. Serial No. 149,619.

American Tripoli Company

Particular description of goods.—Tripoli Flour, (Ground Tripoli Stone.)
Claims use since 1900.

146,423. (CLASS 37. PAPER AND STATIONERY.) AMERICAN WRITING PAPER COMPANY, Holyoke, Mass. Filed June 4, 1920. Serial No. 133,246.

EXTENSION

Particular description of goods.—Ledger-Paper.
Claims use since on or about May 14, 1920.

146,424. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H., and Boston, Mass. Filed May 4, 1921. Serial No. 147,183.

ROMPER

Particular description of goods.—Cotton Piece Goods.
Claims use since May 15, 1914.

146,425. (CLASS 12. CONSTRUCTION MATERIALS.) ARKANSAS SOFT PINE BUREAU, Little Rock, Ark. Filed Mar. 31, 1921. Serial No. 145,494.

ARKANSAS SOFT PINE

Particular description of goods.—Rough Lumber, Common Lumber Dressed on One Side Only, and Dressed Lumber.
Claims use since Oct. 31, 1915.

146,426. (CLASS 12. CONSTRUCTION MATERIALS.) ARKANSAS SOFT PINE BUREAU, Little Rock, Ark. Filed Mar. 31, 1921. Serial No. 145,495.



Particular description of goods.—Rough Lumber, Common Lumber Dressed on One Side Only, and Dressed Lumber.
Claims use since Oct. 31, 1915.

146,427. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BAKER CHEMICAL CO., Havelock, Nebr. Filed Nov. 15, 1920. Serial No. 139,664.

DRY FOOT



Particular description of goods.—A Liquid Preparation to be Applied to the Feet to Relieve Perspiration, Odors, Feverishness, and Tender Conditions of the Feet.
Claims use since July 1, 1920.

146,428. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) BANISTER & POLLARD CO., Newark, N. J. Filed May 17, 1918. Serial No. 110,943.



Particular description of goods.—Iron and Lead Pipe, Metallic Mosquito-Netting, Nails, Bolts, Nuts, Screws, Rivets, Tacks, Staples, Chain, Automobile-Chains, Casters, Hinges, Drawer-Pulls, Brackets, and Sash-Weights; Joint-Hangers and Hangers for Doors, Sashes, and the Like; Glue-Pots; Pipe-Fittings of Malleable Iron, Cast-Iron, or Brass—Namely, Elbows, T's, Unions, Bushings, Valves, Cocks, Traps, Y's, Joints, and Reducers; Gongs and Door-Bells, and Door-Fixtures—Namely, Hinges, Latches, Knobs, Knockers, Mail-Slots, Bumpers, Checks, and Door-Springs.
Claims use since 1911.

146,429. (CLASS 32. FURNITURE AND UPHOLSTERY.) BARCALO MANUFACTURING COMPANY, Buffalo, N. Y. Filed Mar. 2, 1921. Serial No. 144,217.

BARCALO-BUFFALO

Particular description of goods.—Beds, Cribs, Bed-Springs, Mattresses.
Claims use since Aug. 28, 1908.

146,430. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHARLES J. BAUSINGER, Cincinnati, Ohio. Filed Feb. 3, 1921. Serial No. 143,119.



Particular description of goods.—Soda-Ash to be Used in Soaps, Solvents of an Alkali Nature, Cleaners, Washing Compounds, Soap Powders, and Hand-Cleaners.
Claims use since Dec. 10, 1919.

146,431. (CLASS 39. CLOTHING.) BEAL-BURROW DRY GOODS CO., Little Rock, Ark. Filed Nov. 24, 1920. Serial No. 140,094.

Arkwright

Particular description of goods.—Hosiery, Neckties, Garters, Gloves of Leather, Rubber, and Fabric; and Suspenders.
Claims use since April, 1913.

146,432. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BERNARD & BEGIN, Waterville, Me. Filed Jan. 17, 1921. Serial No. 142,318.

Champlain

Particular description of goods.—A Medicinal Preparation Used in the Treatment of Coughs, Colds, and Colics in Animals and Also Acts as an Appetizer and Makes a Horse Shed His Hair.
Claims use since Mar. 7, 1916.

146,433. (CLASS 39. CLOTHING.) J. J. BEYERLE MFG. CO., New York, N. Y. Filed Feb. 15, 1921. Serial No. 143,584.

SLIP-OVER

Particular description of goods.—Rubber Baby-Pants.
Claims use since Mar. 3, 1920.

146,434. (CLASS 39. CLOTHING.) J. J. BEVERLY MFG. CO., New York, N. Y. Filed Feb. 15, 1921. Serial No. 143,586.

OVER-ALL

Particular description of goods.—Rubber Baby-Pants.
Claims use since Mar. 3, 1920.

146,435. (CLASS 31. FILTERS AND REFRIGERATORS.) BRUNSWICK REFRIGERATING COMPANY, New Brunswick, N. J. Filed Nov. 5, 1920. Serial No. 139,192.

BRUNSWICK

Particular description of goods.—Refrigerating and Ice-Making Machines.
Claims use since Jan. 3, 1906.

146,436. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIFORNIA FOOD SPECIALTIES CO., Emeryville, Calif. Filed Jan. 6, 1920. Serial No. 126,845.

SPECIALTY
BRAND

Particular description of goods.—Canned Fruits, Canned Pork and Beans, and Fruit Preserves.
Claims use since Aug. 13, 1919.

146,437. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CALIMA CANNING COMPANY, Los Angeles, Calif. Filed Aug. 30, 1919. Serial No. 122,151.

BRENTWOOD

Particular description of goods.—Canned Tomatoes, Canned Apricots.
Claims use since Aug. 15, 1918.

146,438. (CLASS 37. PAPER AND STATIONERY.) THE CENTRAL OHIO PAPER CO., Columbus, Ohio. Filed Apr. 26, 1921. Serial No. 146,751.

Lancashire

Particular description of goods.—Printing and Writing Papers.
Claims use since Jan. 1, 1911.

146,439. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. THE CHAMPION BLOWER AND FORGE CO., Lancaster, Pa. Filed Mar. 12, 1921. Serial No. 144,664.

LANCASTER

Particular description of goods.—Blowers.
Claims use since Jan. 1, 1907.

146,440. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & CO., Jacksonville, Fla. Filed May 28, 1921. Serial No. 148,371.

ORLANDO

Particular description of goods.—Fresh Citrus Fruits.
Claims use since 1915.

146,441. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHASE & CO., Jacksonville, Fla. Filed May 28, 1921. Serial No. 148,372.

MANATEE RIVER

Particular description of goods.—Fresh Citrus Fruits.
Claims use since 1912.

146,442. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CHEMICAL PRODUCTS CO., Memphis, Tenn. Filed Aug. 31, 1920. Serial No. 136,676.

Gumtone

Particular description of goods.—Preparation for the Treatment of the Gums.
Claims use since June 1, 1920.

146,443. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) S. CHENEY & SON, Village of Manlius, N. Y. Filed Feb. 23, 1921. Serial No 143,912.

ERIE

Particular description of goods.—Gray-Iron Chaplets.
Claims use since 1910

146,444. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) THE CINCINNATI STORAGE BATTERY COMPANY, Cincinnati, Ohio. Filed June 10, 1921. Serial No. 148,959½.

CINCINNATI

Particular description of goods.—Electric Batteries.
Claims use since November, 1915.

146,445. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONSUMERS BISCUIT CO., New Orleans, La. Filed Mar. 28, 1921. Serial No. 145,821.

Santo Domingo Combination

Particular description of goods.—Mixed Biscuits.
Claims use since Sept. 24, 1919.

146,446. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHARLES I. COOK, Menominee, Mich. Filed Aug. 8, 1919. Serial No. 121,883.

Old English

Particular description of goods.—Canned Fruits, Vegetables, and Berries; Catsup, Pickles, Vinegar, Chilli, Mustard, Fruit Preserves.
Claims use since May 20, 1919.

146,447. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOSEPH J. COSIN, New York, N. Y. Filed Apr. 19, 1921. Serial No. 146,372.

"DOWNYPUFF"

HOLDS THE POWDER

Particular description of goods.—Powder-Puffs.
Claims use since about October, 1916.

146,448. (CLASS 38. PRINTS AND PUBLICATIONS.) DAVID DAVIDSON, Providence, R. I. Filed June 13, 1921. Serial No. 149,075.

DAVIDSON

Particular description of goods.—Pictures.
Claims use since 1913

146,449. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) J. C. DEAGAN, INC., Chicago, Ill. Filed Mar. 7, 1921. Serial No. 144,385.

DEAGAN MARIMBA XYLOPHONE

Particular description of goods.—Xylophones.
Claims use since Feb. 1, 1909.

146,450. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) J. C. DEAGAN, INC., Chicago, Ill. Filed Mar. 21, 1921. Serial No. 145,009.

DEAGAN ARTISTS' SPECIAL XYLOPHONE

Particular description of goods.—Xylophones.
Claims use since Jan. 30, 1916.

146,451. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) J. C. DEAGAN, INC., Chicago, Ill. Filed Mar. 21, 1921. Serial No. 145,010.

DEAGAN DRUMMERS SPECIAL XYLOPHONE

Particular description of goods.—Xylophones.
Claims use since Feb. 1, 1911.

146,452. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) DEPENDABLE TRUCK AND TRACTOR COMPANY, Galesburg, Ill. Filed Feb. 7, 1920. Serial No. 128,087.

DEPENDABLE

Particular description of goods.—Motor-Trucks.
Claims use since July 6, 1918.

146,453. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SHARP & DOHME, Baltimore, Md. Filed Nov. 4, 1919. Serial No. 124,542.

'SACCHARETS'

Particular description of goods—Sugar Substitute.
Claims use since June 16, 1908.

146,454. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE DOSS RUBBER & TUBE CO., INC., Atlanta, Ga. Filed Feb. 17, 1919. Serial No. 115,908.



Particular description of goods.—Rubber Tires.
Claims use since Dec. 31, 1918.

146,455. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) BENJAMIN DUBINSKI, San Antonio, Tex. Filed Apr. 29, 1921. Serial No. 146,958.

RELIABLE

Particular description of goods.—Storage Batteries.
Claims use since Feb. 15, 1920.

146,456. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DURHAM COTTON MFG. CO., East Durham, N. C. Filed Oct. 5, 1920. Serial No. 137,919.

Glasgow

Particular description of goods.—Denims in the Piece.
Claims use since the early part of 1898.

146,457. (CLASS 39. CLOTHING.) ELGIN WAIST COMPANY, Philadelphia, Pa. Filed Mar. 1, 1921. Serial No. 144,181.

Elgin

The lines on the drawing are intended to illustrate weaving of the label and not color.
Particular description of goods.—Waists, Dresses, Middies, Camisoles, Chemises, Bloomers, and Smocks.
Claims use since about January, 1910.

146,458. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) EMANUEL SLAG COMPANY, Allentown and Glendon, Pa. Filed Nov. 26, 1919. Serial No. 125,823.

"TRAP-SLAG"

Particular description of goods.—Dense Hard Slag.
Claims use since 1914.

146,459. (CLASS 32. FURNITURE AND UPHOLSTERY.) ENGLANDER SPRING BED CO., Brooklyn, N. Y. Filed Nov. 8, 1920. Serial No. 139,350.

ENGLANDER
SPRINGS
BEDS AND BEST

Particular description of goods.—Beds, Day-Beds, Cozy-Beds, Foldaway Beds and Cots, Couches, Couch-Beds, Sliding Couches, Box-Couch Beds and Level Lock Couch-Beds, Davenports, Divans and Bedivans, and Fold-Up Beds; Bed-Springs, Side-Guard and Wit-Edge Bed-Springs, Link-Fabric Bed-Springs, and Kane-Kore Kable-Edge Bed-Springs; Cribs and Foldaway Cribs, Upholstered Hammocks, Frame-Hammocks, Couch-Hammocks, Child's Hammocks, Hammock Stands and Supports, Hammock-Awnings, and Hammock-Tents; Mattresses, Cushions, Pillows, and Pillow-Rolls.
Claims use since 1909.

146,460. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) FEDERAL ELECTRIC COMPANY, Chicago, Ill. Filed Dec. 2, 1920. Serial No. 140,527.

FEDERAL

Particular description of goods.—Phonographs.
Claims use since Aug. 7, 1919.

146,461. (CLASS 39. CLOTHING.) JOSEPH A. FISCHING, Utica, N. Y. Filed May 22, 1920. Serial No. 132,785.

Netherwear

Particular description of goods.—Underwear of Knitted, Netted, and Textile Fabrics, in One, Two, and Three Piece Garments, for Men, Women, and Children.
Claims use since May 1, 1920.

146,462. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) GALBRAITH & CO., Seattle, Wash. Filed May 9, 1921. Serial No. 147,418.

Galbraith & Co

Particular description of goods.—Compressed Hay.
Claims use since Jan. 1, 1919.

146,463. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) GARDINER-MCINNES CO. INC., New York, N. Y. Filed Apr. 20, 1921. Serial No. 146,447.

Old Salem

Particular description of goods.—Ready-Mixed Paints, Varnishes, and Paint Enamels.
Claims use since Mar. 1, 1920.

146,464. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH GENTER, Brooklyn, N. Y. Filed Dec. 11, 1920. Serial No. 140,941.

ACRID

Consisting of the word "Acrid."
Particular description of goods.—Throat-Gargle.
Claims use since Feb. 19, 1920.

146,465. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GENUINE HAARLEM OIL MFG. CO., New York, N. Y. Filed Mar. 28, 1921. Serial No. 145,330.

GOLD MEDAL
HAARLEM OIL

Particular description of goods.—Haarlem Oil for Kidney, Liver, Bladder, Rheumatic, and Uric-Acid Troubles.
Claims use since about Jan. 1, 1914.

146,466. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THOMAS GILL SOAP COMPANY, INC., Brooklyn, N. Y. Filed May 5, 1921. Serial No. 147,240.

GILL'S
IODINE FOOT SOAP

The name "Gill's" is the name of the founder of the applicant's business.
Particular description of goods.—Foot-Soaps.
Claims use since Sept. 15, 1915.

146,467. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) S. GLEMBY'S SONS CO., INC., New York, N. Y. Filed June 11, 1921. Serial No. 149,002.

Glemby

Particular description of goods.—Hair-Nets.
Claims use since about 1890.

146,468. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) DALE M. GOTTFRIED, Falls City, Oreg. Filed July 20, 1920. Serial No. 135,205.

PARAMOUNT

Particular description of goods.—Card Game.
Claims use since June 1, 1920.

146,469. (CLASS 39. CLOTHING.) GOLDBERG & ROSENBLATT, New York, N. Y. Filed Mar. 17, 1921. Serial No. 144,859.

Rosedale

Particular description of goods.—Waists.
Claims use since July, 1915.

146,470. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GRAY & PRIOR MACHINE COMPANY, Hartford, Conn. Filed Apr. 11, 1921. Serial No. 146,010.

HARTFORD

Particular description of goods.—Internal-Combustion Engines.
Claims use since Jan. 1, 1902.

146,471. (CLASS 39. CLOTHING.) THOMAS E. GERANEY, Boston, Mass. Filed Apr. 25, 1921. Serial No. 146,703.

STANDWEAR

Particular description of goods.—Neckties and Mufflers.
Claims use since September, 1902.

146,472. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) DR. L. O. GREEN, Chicago, Ill. Filed Nov. 1, 1920. Serial No. 139,034.

"THE GREEN SPECIAL FLEXIBLE HYPODERMIC NEEDLE"

Particular description of goods.—Flexible Hypodermic Needles.
Claims use since Nov. 1, 1905.

146,473. (CLASS 39. CLOTHING.) GRIP BOW TIE CO., Omaha, Nebr. Filed Mar. 15, 1921. Serial No. 144,769.

GRIP BOW

Particular description of goods.—Neckties.
Claims use since February, 1914.

146,474. (CLASS 39. CLOTHING.) GULICH AND SNYDER RUBBER CO., Columbus, Ohio. Filed Apr. 20, 1921. Serial No. 146,435.

SLIP-ON

Particular description of goods.—Rubber Heels.
Claims use since Jan. 1, 1920.

146,475. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HAMMOND STANDISH & CO., Detroit, Mich. Filed Dec. 7, 1920. Serial No. 140,726.



Particular description of goods.—Oleomargarin.
Claims use since June 5, 1920.

146,476. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) OSWALD H. HANSEN, Port Washington, Wis. Filed Feb. 7, 1921. Serial No. 143,264.

HANSEN

Particular description of goods.—Canning Machinery.
Claims use since July, 1917.

146,477. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HARDWICK & MAGEE COMPANY, Philadelphia, Pa. Filed May 28, 1921. Serial No. 148,388.

BELLEVUE

Particular description of goods.—Wilton Carpets and Rugs.
Claims use since August, 1913.

146,478. (CLASS 42, KNITTED, NETTED, AND TEXTILE FABRICS.) HARDWICK & MAGEE COMPANY, Philadelphia, Pa. Filed May 28, 1921. Serial No. 148,389.

HARDWICK

Particular description of goods.—Wilton Carpets and Rugs.
Claims use since May, 1909.

146,479. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HEDGE'S ORANGE ALE CO., Detroit, Mich. Filed May 18, 1921. Serial No. 147,880.

Orange Ale

Particular description of goods.—Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since May 1, 1920.

146,480. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) HEINRICH THEODOR HEBERLEIN, Jr., Markneukirchen, Germany. Filed Dec. 21, 1920. Serial No. 141,372.

Heinrich Th. Heberlein jr.
Markneukirchen

Particular description of goods.—Violins, Viols, Cellos, Counter-Bass Viols, Guitars, Mandolins, Strings for Such Instruments, and Bows for Playing the Same.
Claims use since the end of the year 1902.

146,481. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) W. H. HILL CO., Detroit, Mich. Filed Jan. 25, 1921. Serial No. 142,756.

HILL'S
CASCARA BROMIDE QUININE

Particular description of goods.—Tablets for Colds, Coughs, Headache, and La Grippe.
Claims use since June 1, 1900.

146,482. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. P. HITE COMPANY, INC., Roanoke, Va. Filed Apr. 26, 1921. Serial No. 146,765.

Hite's

Particular description of goods.—Olive-Oil, Flavoring-Oils, and Flavoring Extracts.
Claims use since 1908.

146,483. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE HOSPITAL SPECIALTY COMPANY, Cleveland, Ohio. Filed June 18, 1920. Serial No. 133,880.



Particular description of goods.—Sanitary Napkins.
Claims use since April, 1919.

146,484. (CLASS 5. ADHESIVES.) E. F. HOUGHTON & CO., Philadelphia, Pa. Filed Dec. 17, 1920. Serial No. 141,226.

NewSeed

Particular description of goods.—Core-Oils Used as a Binder in Making Cores.
Claims use since 1914.

146,485. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE HUBER ICE CREAM COMPANY, Bridgeport, Conn. Filed May 11, 1921. Serial No. 147,557.



Particular description of goods.—Ice-Cream.
Claims use since about January, 1913.

146,486. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) INDEPENDENT CANNING CO., Chicago, Ill. Filed May 24, 1921. Serial No. 148,145.

WAUKESHA

Particular description of goods.—Canned Vegetables.
Claims use since prior to Dec. 21, 1911.

146,487. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) INDIANA INDESTRUCTIBLE PAINT CO., Chicago, Ill. Filed Apr. 22, 1921. Serial No. 146,556.

"THE BEAUTIFUL"

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints.
Claims use since July 1, 1911.

146,488. (CLASS 23, CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Filed Apr. 26, 1921. Serial No. 146,768.

INGERSOLL-RAND

Particular description of goods.—Steam-Engines, Steam-Turbines, Turbo-Compressors, Turbo-Blowers, Turbo-Exhausters, Reciprocating Compressors, Portable Air-Compressors, Gas-Compressors, Gas-Boosters, Gas-Expanders, Gasolene-Extraction Compressors, Regulating Devices for Compressors, Valves for Compressors, Air-Lift Pumps, Return-Air Pumping Systems, Vacuum-Pumps, Centrifugal Pumps, Reciprocating Pumps, Sinking-Pumps, Marine Pumps, Tire-Pumps, Steam-Condensers, Air-Receivers, Intercoolers, Aftercoolers, Air-Filters, Air-Reheaters, Pneumatic Motors, Pneumatic Hoists, Rock-Drills, Hammer-Drills, Pneumatic Drills, Rotary Drills, Submarine Drills, Pile-Drivers, Core-Drills, Coal-Punchers, Core-Breakers, Coal-Drills, Coal-Shearing Machines, Stone-Channeling Machines, Coal Cutters and Loaders, Coal-Picks, Drill-Bits, Hollow and Solid Drill-Blanks, Chisel-Blanks, Mountings for Drills, Rock-Drill Columns, Quarry-Bars, Tripods and Gadder-Frames, Lubricating Devices, Water-Spray Attachments, Drill-Throttles, Drill Manifolds and Headers, Shank and Bit Punches, Drill-Sharpeners, Blacksmith-Tools for Forming Shanks and Bits on Rock-Drill Steel, Sand-Pumps, Pneumatic Stone-Dressing Tools, Pneumatic Saws, Pneumatic Rammers, Portable Pneumatic Grinders, Mounted Grinding-Wheels, Pneumatic Hammers, Riveting-Hammers, Chipping-Hammers, Scaling-Hammers, Wood-Boring Machines, Close-Quarter Drills, Tamping-Machines, Railway-Tie Tampers, Spike-Drivers, Drift-Bolt Drivers, Plug-Drills, Calking-Machines, Rivet-Sets and Retainers Therefor, Jam-Riveters, Rivet Holders-On, Grease-Guns, Fusible Signal-Plugs, Oil-Engines, Ticket-Canceling Boxes, Component Parts of and Repair Parts for All of the Above Devices.
Claims use since Jan. 1, 1906.

146,489. (CLASS 37. PAPER AND STATIONERY.) INTERNATIONAL TAG COMPANY, Chicago, Ill. Filed Nov. 14, 1919. Serial No. 124,910.

DUO-SAFETY

Particular description of goods.—Shipping-Tags.
Claims use since about June 30, 1919.

146,490. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HENRY C. JARVIS, New York, N. Y. Filed Mar. 18, 1921. Serial No. 144,915.

AMMUNITION
FOR THE
CONSTITUTION

Particular description of goods.—Pills for the Treatment of Constipation and Torpid Liver.
Claims use since Oct. 1, 1919.

146,491. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) KELSEY HEATING COMPANY, Syracuse, N. Y. Filed May 20, 1921. Serial No. 147,961.

THE KELSEY
WARM AIR GENERATOR

Particular description of goods.—Steam, Hot-Water and Hot-Air Heaters.
Claims use since 1901.

146,492. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) KELSEY HEATING COMPANY, Syracuse, N. Y. Filed May 20, 1921. Serial No. 147,962.

KELSEY
HEALTH
HEAT

Particular description of goods.—Steam, Hot-Water and Hot-Air Heaters.
Claims use since 1916.

146,493. (CLASS 39. CLOTHING.) KINZIE RUBBER & MANUFACTURING CO., Chicago, Ill. Filed July 6, 1920. Serial No. 134,590.

Kinzie

Particular description of goods.—Raincoats.
Claims use since Nov. 1, 1919.

146,494. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KIRK-BARBER COMPANY, Chicago, Ill. Filed Jan. 26, 1921. Serial No. 142,791.

KB
FLY-WHEEL
GEAR RINGS

Particular description of goods.—Fly-Wheel Gear-Rings.
Claims use since Mar. 15, 1919.

146,495. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GUSTAV KLEMPERER, New York, N. Y. Filed June 15, 1921. Serial No. 149,198.

"Schenley"

Particular description of goods.—Hair-Nets.
Claims use since about Mar. 21, 1916.

146,496. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GUSTAV KLEMPERER, New York, N. Y. Filed June 16, 1921. Serial No. 149,234.

"Shenley"

Particular description of goods.—Hair-Nets.
Claims use since about Feb. 5, 1918.

146,497. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) RAIN-SUN VISION SHIELD CO., Los Angeles, Calif. Filed Nov. 27, 1920. Serial No. 140,349.

RAIN-SUN

Particular description of goods.—Sun and Rain Shields for Automobiles, Said Rain and Sun Shields Being Made of Glass or Metal and Disposed in a frame and Mounted Above the Windshield of the Automobile.
Claims use since Feb. 15, 1920.

146,498. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) REALSILK FABRICS CORPORATION, New York, N. Y. Filed Mar. 19, 1921. Serial No. 144,984.

Realsilk

Particular description of goods.—Silk, Cotton, and Woolen Piece Goods and Combinations Thereof.
Claims use since May 12, 1917.

146,499. (CLASS 39. CLOTHING.) REALSILK FABRICS CORPORATION, New York, N. Y. Filed Mar. 19, 1921. Serial No. 144,985.

Realsilk

The drawing is lined to represent shading only and not to indicate color.
Particular description of goods.—Hosiery and Underwear of Silk Fabric for Men and Women.
Claims use since May 12, 1917.

146,500. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SELIGMAN AND LATZ, New York, N. Y. Filed Apr. 24, 1920. Serial No. 131,604.

SILVER TONE

Particular description of goods.—Hair and Scalp Shampoo Preparations.
Claims use since Mar. 24, 1920.

146,501. (CLASS 15. OILS AND GREASES.) SERVICE OIL REFINING COMPANY, Kokomo, Ind. Filed Oct. 2, 1920. Serial No. 137,859.

SERVICE
SERVICE OIL REFINING CO.
GASOLINE

Particular description of goods.—Gasolene, Kerosene, and Lubricating Oil and Greases.
Claims use since March, 1918.

146,502. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Nov. 4, 1919. Serial No. 124,553.

BENZOTHYMOL

Particular description of goods.—Antiseptic Solution.
Claims use since June 1, 1896.

146,503. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Nov. 4, 1919. Serial No. 124,547.

OVARITONE

Particular description of goods.—Uterine Tonic.
Claims use since Jan. 19, 1905.

146,504. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SHARP & DOHME, Baltimore, Md. Filed Nov. 4, 1919. Serial No. 124,549.

RES-UNGUENTUM

Particular description of goods.—Anodyne, Antipruritic Ointment.
Claims use since June 1, 1913.

146,505. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE SHARPLES SPECIALTY COMPANY, Philadelphia, Pa. Filed Nov. 13, 1920. Serial No. 139,635.

-SUPER-
CENTRIFUGE

Particular description of goods.—Centrifugal Machines.
Claims use since about January, 1916.

146,506. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed Oct. 15, 1920. Serial No. 138,353.

E SIMMONS

Particular description of goods.—Dry, Ready-Mixed, and Paste Paints; Calcimine, Enamels, Stains, Varnishes, Liquid and Paste Graphite Paints, Dry Colors, Asphalt Paint, Colors in Oil, Aluminum Paint, Gold Paint, Silver Paint, Slating-Paint, Bronzing Liquid, Bronze-Powders, Prepared Shellacs, Wood-Fillers, Prepared Wax, White Lead, White Zinc, Japans.
Claims use since June 3, 1910.

146,507. (CLASS 25. LOCKS AND SAFES.) SIMPLEX CORPORATION, Chicago, Ill. Filed Feb. 26, 1920. Serial No. 128,944.

SIMPLEX

Particular description of goods.—Locks for Automobile Steering-Posts and Steering-Wheels.
Claims use since about March, 1919.

146,508. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN M. SLAVIN, San Francisco, Calif. Filed Apr. 29, 1921. Serial No. 146,984.

Slavin

Particular description of goods.—Preparation for the Treatment of the Hair and Scalp.
Claims use since Apr. 3, 1912.

146,509. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CHARLES SMITH, Providence, R. I. Filed Aug. 22, 1919. Serial No. 121,911.



Particular description of goods.—Metal Frames for Wreaths for Florists' Use.
Claims use since Aug. 13, 1919.

146,510. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIÉTÉ ANONYME DE LUZY, Neuilly sur Seine, France. Filed Jan. 27, 1921. Serial No. 142,859.

De Luzy

Particular description of goods.—Perfumes, Toilet Waters, Rouges, Toilet Powders, and Dentifrices.
Claims use since October, 1919.

146,511. (CLASS 37. PAPER AND STATIONERY.) GEORGE F. SOPER, Philadelphia, Pa. Filed Dec. 18, 1920. Serial No. 141,088.

Everwear Crayon

I disclaim the word "Crayon" as part of the mark.
Particular description of goods.—Marking-Crayon, Such as is Used in School-Room for Blackboard Use.
Claims use since Oct. 1, 1919.

146,512. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) SOUTHERN PAVING GRAVEL COMPANY, Savannah, Ga. Filed May 20, 1921. Serial No. 148,000.

"BEECH ISLAND CEMENT GRAVEL"

Particular description of goods.—Gravel.
Claims use since May, 1903.

146,513. (CLASS 39. CLOTHING.) SPOKANE DRY GOODS COMPANY, Spokane, Wash. Filed Apr. 18, 1921. Serial No. 146,337.

RIP-PROOF

Particular description of goods.—Overalls, Overall Coats, and Overall Suits.
Claims use since Mar. 1, 1902.

146,514. (CLASS 39. CLOTHING.) WILLIAM STEINHARDT, New York, N. Y. Filed Mar. 24, 1921. Serial No. 145,175.



Particular description of goods.—Shoes Made Out of Leather or Cork.
Claims use since Mar. 10, 1918.

146,515. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) STOCKLAND ROAD MACHINERY COMPANY, Minneapolis, Minn. Filed Mar. 17, 1921. Serial No. 144,883.

QUICK LIFT

Particular description of goods.—Road-Graders.
Claims use since Apr. 20, 1915.

146,516. (CLASS 37. PAPER AND STATIONERY.) TOLMAN PRINT INC., Brockton, Mass. Filed May 11, 1921. Serial No. 147,587.

Tolman Advertising
"MAKES GOOD"

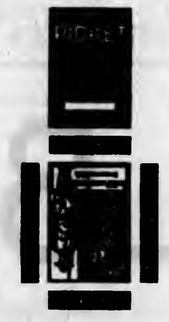
Particular description of goods.—Advertising Literature—Namely, Partially-Printed Labels and Tags, Letter-Heads, Mailing-Envelops, Blank Cards, and Blotters.
Claims use since Apr. 1, 1912.

146,517. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) TULITE AUTO BULB COMPANY, New York, N. Y. Filed July 2, 1920. Serial No. 134,530.

Tulite

Particular description of goods.—Electric Lamps.
Claims use since Feb. 15, 1914.

146,518. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed May 25, 1920. Serial No. 132,959.



Particular description of goods.—Playing-Cards.
Claims use since 1903.

146,519. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) UNITED STATES WIRE MAT CO., Decatur, Ill. Filed May 22, 1920. Serial No. 132,829.

NATIONAL

Particular description of goods.—Devices for Killing and Disabling Insects, Flies, and the Like, Known as Fly-Killers or Fly-Swatters.
Claims use since Oct. 17, 1919.

146,520. (CLASS 28. JEWELRY AND PRECIOUS-METAL WARE.) THE VAN BERGH SILVER PLATE CO., Rochester, N. Y. Filed Mar. 9, 1921. Serial No. 144,552.

THE VAN BERGH S.P.CO.
ROCHESTER, N.Y.
U.S.A.
VBCo
NS
V

Particular description of goods.—Silver-Plated Hollow Ware.
Claims use since Jan. 1, 1891.

146,521. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) VAPOR-VACUUM HEATING CO., Philadelphia, Pa. Filed Jan. 24, 1921. Serial No. 142,736.

VAPOR VACUUM

Particular description of goods.—Vapor-Vacuum-Heating Systems, Including Various Devices Employed in Such Heating Systems—Namely, Controllers for Expelling Air, Radiator-Valves, Separators for Returning Water of Condensation to Boilers, and Draft-Stabilizers.
Claims use since May, 1907.

146,522. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALKER PROPERTIES ASSOCIATION, Austin, Tex. Filed May 14, 1921. Serial No. 147,752.

WALKER'S
RED HOT

Particular description of goods.—Canned Chilli-Con-Carne and Canned Hot Tamales.
Claims use since 1914.

146,523. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WALLACH & CO., Brooklyn, N. Y. Filed Apr. 22, 1921. Serial No. 146,611.

CHOCOLATE SURFINS

Particular description of goods.—Candies.
Claims use since July, 1919.

146,524. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITTEMORE BROTHERS, CORPORATION, Cambridge, Mass. Filed Mar. 5, 1921. Serial No. 144,369.

QUICK WHITE

Particular description of goods.—Dressing for Shoes and Other Articles Formed of Canvas, Buck, and Suede.
Claims use since Jan. 9, 1901.

146,525. (CLASS 39. CLOTHING.) WICHERT & GARDINER, Brooklyn, N. Y. Filed Mar. 2, 1921. Serial No. 144,265.

Wichert

Particular description of goods.—Leather, Canvas, and Cloth Shoes and Slippers.
Claims use since November, 1912.

146,526. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WISCONSIN MOTOR MANUFACTURING CO., West Allis, Wis. Filed Dec. 21, 1920. Serial No. 141,402.

Wisconsin

Particular description of goods.—Truck, Tractor, Automobile, Industrial, and Marine Internal-Combustion Motors.
Claims use since March, 1909.

146,527. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) WOLF RIVER SAND CO., Memphis, Tenn. Filed May 7, 1921. Serial No. 147,382.

WOLF RIVER

Particular description of goods.—Sand and Gravel.
Claims use since 1913.

146,528. (CLASS 39. CLOTHING.) ABRAHAM ZWIBELSON, New York, N. Y. Filed Feb. 5, 1921. Serial No. 143,237.

Mollie Mayers

Particular description of goods.—Brassières and Corsets.
Claims use since Dec. 5, 1905

146,529. (CLASS 7. CORDAGE.) A. LESCHEN & SONS ROPE COMPANY, St. Louis, Mo. Filed Mar. 11, 1921. Serial No. 144,622.

SPECIAL STEEL

Particular description of goods.—Wire Rope.
Claims use since Dec. 28, 1901.

146,530. (CLASS 7. CORDAGE.) A. LESCHEN & SONS ROPE COMPANY, St. Louis, Mo. Filed Mar. 11, 1921. Serial No. 144,623.

CALIFORNIA SPECIAL.

Particular description of goods.—Wire Rope.
Claims use since May 22, 1909.

146,531. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LINDSEY WAGON CO., Laurel, Miss. Filed May 14, 1921. Serial No. 147,728.

LINDSEY

Particular description of goods.—Wagons for Transportation of Logs, Commercial Wagons, and Skidders.
Claims use since Jan. 1, 1901.

146,532. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920. Serial No. 133,267.

ELBA

Particular description of goods.—Tool-Steel and Carbon Tool-Steel.
Claims use since Jan. 1, 1913.

146,533. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) LUDLUM STEEL COMPANY, Watervliet, N. Y. Filed June 4, 1920. Serial No. 133,266.

DELHI

Particular description of goods.—Rustless Steel.
Claims use since Jan. 1, 1919.

146,534. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) FRANK MACMILLAN, Fort Lee, N. J. Filed Mar. 10, 1921. Serial No. 144,584.

PEERLESS

Particular description of goods.—Skates.
Claims use since Nov. 4, 1905.

146,535. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) PAUL M. MARKO & CO., INC., Brooklyn, N. Y. Filed May 6, 1921. Serial No. 147,302.

STORAGE Marko BATTERY

THE MARK O'QUALITY

Particular description of goods.—Storage Batteries.
Claims use since Mar. 19, 1907.

146,536. (CLASS 28. JEWELRY AND PRECIOUS METAL WARE.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Apr. 22, 1921. Serial No. 146,544.

Wrought-Right TRADE MARK

Particular description of goods.—Silverware—Namely, Hollow Ware and Tableware.
Claims use since April, 1917.

146,537. (CLASS 15. OILS AND GREASES.) MARSHALL OIL COMPANY OF IOWA, Marshalltown, Iowa. Filed Nov. 8, 1920. Serial No. 139,364.

French Auto Oil

Particular description of goods.—Lubricating-Oils.
Claims use since 1910.

146,538. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MASTER RULE MFG. CO. INC., New York, N. Y. Filed Mar. 10, 1921. Serial No. 144,586.

"Interlox"

Particular description of goods.—Rules, Folding Rules, and Extension-Rules.
Claims use since 1914.

146,539. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE MCCASKEY REGISTER COMPANY, Alliance, Ohio. Filed May 26, 1921. Serial No. 148,292.

The McCASKEY

Particular description of goods.—Filing Appliances for Duplicating Forwarding One-Writing Sales-Bill Systems of Accounting.
Claims use since 1903.

146,540. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) MILTON PIANO COMPANY, New York, N. Y. Filed Apr. 29, 1921. Serial No. 146,972.

Davenport-Treacy

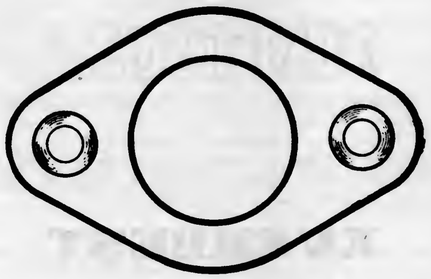
Particular description of goods.—Pianos and Player-Pianos.
Claims use since Sept. 20, 1916.

146,541. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) MILWAUKEE AUTO ENGINE & SUPPLY CO., Milwaukee, Wis. Filed May 12, 1921. Serial No. 147,628.

MILWAUKEE

Particular description of goods.—Spark-Timers for Internal-Combustion Engines.
Claims use since March, 1912.

146,542. (CLASS 5. ADHESIVES.) MOTOR GASKET SEAL CO., Los Angeles, Calif. Filed Apr. 21, 1919. Serial No. 117,682.



Particular description of goods.—Liquid Composition for Sealing Gaskets, Joints, and the Like.
Claims use since Mar. 22, 1919.

146,543. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL SALES COMPANY, Des Moines, Iowa. Filed Jan. 28, 1921. Serial No. 142,905.

PEERLESS

Particular description of goods.—Corn, Corn Products, Cereal Foods, Raw Popcorn, Popped Popcorn, Popcorn Products, Popcorn Confections, Corn Confections, Cooking-Oil, and Corn-Oil.
Claims use since April, 1919.

146,544. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 139,589.

The Parisienne

Particular description of goods.—Hair-Nets and Veils.
Claims use since Nov. 1, 1918.

146,545. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NEVER-SKID MANUFACTURING CO., INCORPORATED, New York, N. Y. Filed Feb. 11, 1921. Serial No. 143,447.

NEVER-SKID

Particular description of goods.—Non-Skid Chains for Double-Tired Wheels.
Claims use since 1912.

146,546. (CLASS 39. CLOTHING.) I. NEWMAN & SONS, New Haven, Conn. Filed June 26, 1920. Serial No. 134,261.

P.N. Practical Front "Perfection"

Particular description of goods.—Corsets.
Claims use since May 1, 1920.

146,547. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PATEK BROTHERS, Milwaukee, Wis. Filed Feb. 28, 1921. Serial No. 144,150.

MATTCOTE

Particular description of goods.—Ready-Mixed Paints.
Claims use since about Sept. 1, 1908.

146,548. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. S. PEARSALL BUTTER CO., Elgin, Ill. Filed Mar. 3, 1921. Serial No. 144,295.

EVERBEST

Particular description of goods.—Butter, Margarin, and Oleomargarin.
Claims use since July 1, 1907.

146,549. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FREDERICH PERSON, Chicago, Ill. Filed Dec. 27, 1919. Serial No. 126,538.

Instant Heat

Particular description of goods.—A Container of a Chemical Compound Which Produces Heat Through Physical Action by Admitting Air into the Container Through a Nipple Provided for That Purpose or by Boiling the Container with Its Contents in Water.
Claims use since Sept. 1, 1917.

146,550. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Nov. 9, 1920. Serial No. 139,425.

Pillsbury's FARINA

Particular description of goods.—Flour Made from Wheat.
Claims use since on or about Jan. 1, 1905.

146,551. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Apr. 8, 1921. Serial No. 145,916.

Boston favorite

Particular description of goods.—Boots, Shoes, and Slippers of Certain Named Materials, and Spats.
Claims use since Apr. 1, 1904.

146,552. (CLASS 39. CLOTHING.) JOHN D. PRINCE, Boston, Mass. Filed July 1, 1919. Serial No. 120,180.

GUN-METAL

Particular description of goods.—Soles and Heels for Boots and Shoes, Composed of Leather Substitute.
Claims use since Dec. 10, 1918.

TRADE-MARK REGISTRATIONS RENEWED.

18,647. MEDICAL COMPOUNDS FOR ANTITHERMIC, ANTIRHEUMATIC, AND ANTISEPTIC USES. DR. F. VON HEYDEN NACHFOLGER, Radebeul, near Dresden, Germany; Chemische Fabrik von Heyden Aktiengesellschaft, assignee.
Registered November 25, 1890. Renewed November 25, 1920.

18,910. POISON FOR VERMIN. HASKIN & TODD, Ithaca, N. Y.; Hiram L. Haskin, assignee.
Registered January 27, 1891. Renewed January 27, 1921.

19,146. CIGARS. GABRIO & SPITZ, Des Moines, Iowa; W. F. Gabrio Co., assignee.
Registered March 3, 1891. Renewed March 3, 1921.

19,181. TOILET-COMBS. FELIX ARMAND MAUREY-DESCHAMPS, Paris, France; Robert Maurey, successor.
Registered March 17, 1891. Renewed March 17, 1921.

19,203. WATCHCASES. BROOKLYN WATCH CASE COMPANY, Brooklyn, N. Y.; Joseph Fahys & Company, assignee.
Registered March 24, 1891. Renewed March 24, 1921.

19,281. ORGANS. HAMILTON ORGAN COMPANY, Indianapolis, Ind., and Chicago, Ill.; The Baldwin Company, a Corporation of Ohio, assignee.
Registered April 7, 1891. Renewed April 7, 1921.

19,408. BRISTLES USED IN MAKING BRUSHES. FELIX ARMAND MAUREY-DESCHAMPS, Paris, France; Robert Maurey, successor.
Registered April 28, 1891. Renewed April 28, 1921.

19,494. KNIT UNDERWEAR. SOLOMON WAIGHT, New York, N. Y.; Wrights Underwear Co., a Corporation of New York, assignee.
Registered May 12, 1891. Renewed May 12, 1921.

19,499. CIGARS. LEROY W. DAVIS, Norfolk, Va.; Old Dominion Tobacco Co., a Corporation of Virginia, assignee.
Registered May 12, 1891. Renewed May 12, 1921.

19,558. HOSE, BELTING, AND PACKING FOR MACHINERY. REVERE RUBBER COMPANY, Boston, Mass.
Registered May 19, 1891. Renewed May 19, 1921.

19,572. WEIGHING-SCALES. JONES OF BINGHAMTON, Binghamton, N. Y.; Jones of Binghamton Company Inc., a Corporation of New York, assignee.
Registered May 26, 1891. Renewed May 26, 1921.

19,581. CLOCKS. THE ANSONIA CLOCK COMPANY, Ansonia, Conn., and New York, N. Y.
Registered May 26, 1891. Renewed May 26, 1921.

19,678. CORN-FLOUR. THE NATIONAL STARCH MANUFACTURING COMPANY, Covington, Ky., and New York, N. Y.; Corn Products Refining Company, a Corporation of New Jersey, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,679. CORN-FLOUR. THE NATIONAL STARCH MANUFACTURING COMPANY, Covington, Ky., and New York, N. Y.; Corn Products Refining Company, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,680. CORN-FLOUR. THE NATIONAL STARCH MANUFACTURING COMPANY, Covington, Ky., and New York, N. Y.; Corn Products Company, a Corporation of New Jersey, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,691. COTTON GOODS. NEUSS, HESSLEIN & CO., New York, N. Y.; Neuss, Hesslein & Co., Inc., a Corporation of New York, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,720. CUT AND BONELESS FISH. S. GORTON & CO., Gloucester, Mass.; Gorton-Pew Fisheries Company, a Corporation of Massachusetts, assignee.
Registered June 16, 1891. Renewed June 16, 1921.

19,721. PERFUMERY AND SOAP. SOLON PALMER, New York, N. Y.; Solon Palmer, a Corporation of New York, assignee.
Registered June 16, 1891. Renewed June 16, 1921.

19,752. MECHANICAL RUBBER GOODS. REVERE RUBBER COMPANY, Boston, Mass.
Registered June 23, 1891. Renewed June 23, 1921.

19,763. COTTON, LINEN, HEMP, AND SILK PIECE GOODS, WOOLEN CLOTHS, AND WORSTED STUFFS. JOHN MADDOCKS, Bradford, England; Sir Titus Salt, Baronet, Sons & Company, Limited, assignee.
Registered June 23, 1891. Renewed June 23, 1921.

19,764. COTTON, LINEN, HEMP, AND SILK PIECE GOODS, WOOLEN CLOTHS, AND WORSTED STUFFS. JOHN MADDOCKS, Bradford, England; Sir Titus Salt, Baronet, Sons & Company, Limited, assignee.
Registered June 23, 1891. Renewed June 23, 1921.

19,813. AN ANODYNE. BATTLE & COMPANY, Chemists Corporation, St. Louis, Mo.
Registered June 30, 1891. Renewed June 30, 1921.

19,881. VELOCIPEDES. THE RALEIGH CYCLE COMPANY, LIMITED, Nottingham, England.
Registered July 14, 1891. Renewed July 14, 1921.

19,885. HATS, CAPS, AND OTHER HEAD-COVERINGS. B. HERZBERG & Co., London, England.
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19,975. A REMEDY FOR NERVOUS DISEASES. THE DR. MILES MEDICAL COMPANY, Elkhart, Ind.
Registered August 4, 1891. Renewed August 4, 1921.

19,989. FAMILY SOAP. N. K. FAIRBANK & COMPANY, Chicago, Ill.; St. Louis, Mo., and New York, N. Y.; The N. K. Fairbank Company, a Corporation of New Jersey, assignee.
Registered August 4, 1891. Renewed August 4, 1921.

20,135. COMPOSITION PACKING. REVERE RUBBER COMPANY, Boston, Mass.
Registered September 15, 1891. Renewed September 15, 1921.

20,147. COTTON SHEETINGS, SHIRTINGS, AND DRILLS. THE HENRIETTA MILLS, Henrietta, N. C.
Registered September 15, 1891. Renewed September 15, 1921.

20,219. KID, GOAT, AND SIMILAR LIGHT-WEIGHT LEATHERS. ROBERT H. FOERDERER, Philadelphia, Pa.; Robert H. Foerderer, Incorporated, a Corporation of Pennsylvania, assignee.
Registered October 13, 1891. Renewed October 13, 1921.

20,262. VARNISHES. AMERICAN VARNISH COMPANY, Chicago, Ill., and New York, N. Y.
Registered October 27, 1891. Renewed October 27, 1921.

20,364. BLEACHED, GRAY, PRINTED, AND FANCY DOMESTICS. NEUSS, HESSLEIN & CO., New York, N. Y.; Neuss, Hesslein & Co., Inc., a Corporation of New York, assignee.
Registered November 10, 1891. Renewed November 10, 1921.

20,553. A MACHINE FOR ATTACHING BUTTONS TO BOOTS AND SHOES. HEATON-PENINSULAR BUTTON-FASTENER COMPANY, Providence, R. I.
Registered January 5, 1892. Renewed January 5, 1922.

146,543. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL SALES COMPANY, Des Moines, Iowa. Filed Jan. 28, 1921. Serial No. 142,905.

PEERLESS

Particular description of goods.—Corn, Corn Products, Cereal Foods, Raw Popcorn, Popped Popcorn, Popcorn Products, Popcorn Confections, Corn Confections, Cooking-Oil, and Corn-Oil.
Claims use since April, 1919.

146,544. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 139,589.

The Parisienne

Particular description of goods.—Hair-Nets and Veils.
Claims use since Nov. 1, 1918.

146,545. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) NEVER-SKID MANUFACTURING CO., INCORPORATED, New York, N. Y. Filed Feb. 11, 1921. Serial No. 143,447.

NEVER-SKID

Particular description of goods.—Non-Skid Chains for Double-Tired Wheels.
Claims use since 1912.

146,546. (CLASS 39. CLOTHING.) I. NEWMAN & SONS, New Haven, Conn. Filed June 26, 1920. Serial No. 134,261.

P.N. Practical Front "Perfection"

Particular description of goods.—Corsets.
Claims use since May 1, 1920.

146,547. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) PATEK BROTHERS, Milwaukee, Wis. Filed Feb. 28, 1921. Serial No. 144,150.

MATTCOTE

Particular description of goods.—Ready-Mixed Paints.
Claims use since about Sept. 1, 1908.

146,548. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. S. PEARSALL BUTTER CO., Elgin, Ill. Filed Mar. 3, 1921. Serial No. 144,295.

EVERBEST

Particular description of goods.—Butter, Margarin, and Oleomargarin.
Claims use since July 1, 1907.

146,549. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) FREDERICH PERSON, Chicago, Ill. Filed Dec. 27, 1919. Serial No. 126,538.

Instant Heat

Particular description of goods.—A Container of a Chemical Compound Which Produces Heat Through Physical Action by Admitting Air into the Container Through a Nipple Provided for That Purpose or by Boiling the Container with Its Contents in Water.
Claims use since Sept. 1, 1917.

146,550. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Nov. 9, 1920. Serial No. 139,425.

Pillsbury's FARINA

Particular description of goods.—Flour Made from Wheat.
Claims use since on or about Jan. 1, 1905.

146,551. (CLASS 39. CLOTHING.) THOMAS G. PLANT COMPANY, Boston, Mass. Filed Apr. 8, 1921. Serial No. 145,916.

Boston Favorite

Particular description of goods.—Boots, Shoes, and Slippers of Certain Named Materials, and Spats.
Claims use since Apr. 1, 1904.

146,552. (CLASS 39. CLOTHING.) JOHN D. PRINCE, Boston, Mass. Filed July 1, 1919. Serial No. 120,180.

GUN-METAL

Particular description of goods.—Soles and Heels for Boots and Shoes, Composed of Leather Substitute.
Claims use since Dec. 10, 1918.

TRADE-MARK REGISTRATIONS RENEWED.

18,647. MEDICAL COMPOUNDS FOR ANTITHERMIC, ANTIRHEUMATIC, AND ANTISEPTIC USES. DR. F. VON HEYDEN NACHFOLGER, Radebeul, near Dresden, Germany; Chemische Fabrik von Heyden Aktiengesellschaft, assignee.
Registered November 25, 1890. Renewed November 25, 1920.

18,910. POISON FOR VERMIN. HASKIN & TODD, Ithaca, N. Y.; Hiram L. Haskin, assignee.
Registered January 27, 1891. Renewed January 27, 1921.

19,146. CIGARS. GABRIO & SPITZ, Des Moines, Iowa; W. F. Gabrio Co., assignee.
Registered March 3, 1891. Renewed March 3, 1921.

19,181. TOILET-COMBS. FELIX ARMAND MAUREY-DESCHAMPS, Paris, France; Robert Maurey, successor.
Registered March 17, 1891. Renewed March 17, 1921.

19,203. WATCHCASES. BROOKLYN WATCH CASE COMPANY, Brooklyn, N. Y.; Joseph Fahys & Company, assignee.
Registered March 24, 1891. Renewed March 24, 1921.

19,281. ORGANS. HAMILTON ORGAN COMPANY, Indianapolis, Ind., and Chicago, Ill.; The Baldwin Company, a Corporation of Ohio, assignee.
Registered April 7, 1891. Renewed April 7, 1921.

19,408. BRISTLES USED IN MAKING BRUSHES. FELIX ARMAND MAUREY-DESCHAMPS, Paris, France; Robert Maurey, successor.
Registered April 28, 1891. Renewed April 28, 1921.

19,494. KNIT UNDERWEAR. SOLOMON WRIGHT, New York, N. Y.; Wrights Underwear Co., a Corporation of New York, assignee.
Registered May 12, 1891. Renewed May 12, 1921.

19,499. CIGARS. LEROY W. DAVIS, Norfolk, Va.; Old Dominion Tobacco Co., a Corporation of Virginia, assignee.
Registered May 12, 1891. Renewed May 12, 1921.

19,558. HOSE, BELTING, AND PACKING FOR MACHINERY. REVERE RUBBER COMPANY, Boston, Mass.
Registered May 19, 1891. Renewed May 19, 1921.

19,572. WEIGHING-SCALES. JONES OF BINGHAMTON, Binghamton, N. Y.; Jones of Binghamton Company Inc., a Corporation of New York, assignee.
Registered May 26, 1891. Renewed May 26, 1921.

19,581. CLOCKS. THE ANSONIA CLOCK COMPANY, Ansonia, Conn., and New York, N. Y.
Registered May 26, 1891. Renewed May 26, 1921.

19,678. CORN-FLOUR. THE NATIONAL STARCH MANUFACTURING COMPANY, Covington, Ky., and New York, N. Y.; Corn Products Refining Company, a Corporation of New Jersey, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,679. CORN-FLOUR. THE NATIONAL STARCH MANUFACTURING COMPANY, Covington, Ky., and New York, N. Y.; Corn Products Refining Company, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,680. CORN-FLOUR. THE NATIONAL STARCH MANUFACTURING COMPANY, Covington, Ky., and New York, N. Y.; Corn Products Company, a Corporation of New Jersey, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,691. COTTON GOODS. NEUSS, HESSLEIN & CO., New York, N. Y.; Neuss, Hesslein & Co., Inc., a Corporation of New York, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,720. CUT AND BONELESS FISH. S. GORTON & CO., Gloucester, Mass.; Gorton-Pew Fisheries Company, a Corporation of Massachusetts, assignee.
Registered June 16, 1891. Renewed June 16, 1921.

19,721. PERFUMERY AND SOAP. SOLON PALMER, New York, N. Y.; Solon Palmer, a Corporation of New York, assignee.
Registered June 16, 1891. Renewed June 16, 1921.

19,752. MECHANICAL RUBBER GOODS. REVERE RUBBER COMPANY, Boston, Mass.
Registered June 23, 1891. Renewed June 23, 1921.

19,763. COTTON, LINEN, HEMP, AND SILK PIECE GOODS, WOOLEN CLOTHS, AND WORSTED STUFFS. JOHN MADDOCKS, Bradford, England; Sir Titus Salt, Baronet, Sons & Company, Limited, assignee.
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19,885. HATS, CAPS, AND OTHER HEAD-COVERINGS. B. HERZBERG & CO., London, England.
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20,219. KID, GOAT, AND SIMILAR LIGHT-WEIGHT LEATHERS. ROBERT H. FOERDERER, Philadelphia, Pa.; Robert H. Foerderer, Incorporated, a Corporation of Pennsylvania, assignee.
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20,364. BLEACHED, GRAY, PRINTED, AND FANCY DOMESTICS. NEUSS, HESSLEIN & CO., New York, N. Y.; Neuss, Hesslein & Co., Inc., a Corporation of New York, assignee.
Registered November 10, 1891. Renewed November 10, 1921.

20,553. A MACHINE FOR ATTACHING BUTTONS TO BOOTS AND SHOES. HEATON-PENINSULAR BUTTON-FASTENER COMPANY, Providence, R. I.
Registered January 5, 1892. Renewed January 5, 1922.

LABELS

REGISTERED SEPTEMBER 6, 1921.

23,335.—*Title:* "LUXURIA." (For a Cosmetic Marvel Superior to Cold-Cream.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,336.—*Title:* "LUXURIA." (For a Cosmetic Marvel Superior to Cold-Cream.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,337.—*Title:* "THE AYERISTOCRAT (OF ALL)." (For Finishing Vanishing Non-Greasy Cream.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,338.—*Title:* "SNOWDRIFT." (For Preparations for Increasing the Brilliancy and Removing the Yellowness from White or Gray Hair.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,339.—*Title:* "LOTION DE FRAISES (STRAWBERRY LOTION)." (For Invigorant for the Skin.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,340.—*Title:* "BATH SALTS." (For Preparations for Perfuming and Softening Bath-Water.) HARRIET HUBBARD AYER, New York, N. Y. Filed April 23, 1921.

23,341.—*Title:* "BONNIE BELLE." (For Hosiery.) BERKS KNITTING COMPANY, Reading, Pa. Filed April 14, 1921.

23,342.—*Title:* "BLOM'S HOME MADE PEUR-EGG MAYONNAISE." (For Mayonnaise.) BENJAMIN BLOM, Detroit, Mich. Filed May 7, 1921.

23,343.—*Title:* "EXTRA SELECT DIAMOND BRAND." (For Boxes of Grapefruit.) THE BOURK-DONALDSON-TAYLOR FRUIT COMPANY, Denver, Colo. Filed April 22, 1921.

23,344.—*Title:* "NORBEST." (For Sardines.) IWAN BURGER, INC., New York, N. Y. Filed June 16, 1920.

23,345.—*Title:* "MOTHERS' PILE OINTMENT." (For Medicinal Salve.) E. BURGOON, Columbus, Ohio. Filed June 18, 1921.

23,346.—*Title:* "SAL-LI-LAX." (For Medicines for Disorders of the Stomach, Liver, and Bowels.) JOHN BURNS, Buffalo, N. Y. Filed April 10, 1920.

23,347.—*Title:* "LIGHT ACME A HEALTHFUL BEVERAGE." (For Barrels, Containers, or Packages for Containing the Beverages.) CALIFORNIA BREWING ASSOCIATION, San Francisco, Calif. Filed April 20, 1921.

23,348.—*Title:* "HOTEL GALVEZ." (For Coffee.) CHEEK-NEAL COFFEE COMPANY, Nashville, Tenn. Filed April 9, 1921.

23,349.—*Title:* "HONEY SCOTCH." (For Candy.) J. N. COLLINS COMPANY, Minneapolis, Minn. Filed June 29, 1921.

23,350.—*Title:* "GINGHAM GIRL." (For Candy.) COLLINS-HENCKE CANDY CO., San Francisco, Calif. Filed October 13, 1920.

23,351.—*Title:* "JOHNSTON'S DENTEX." (For Bottles Containing a Tooth-Cleaner.) CREECH CHEMICAL CO., Smithfield, N. C. Filed April 27, 1921.

23,352.—*Title:* "THE DON'T WORRY TIRE PATCH." (For Patches Prepared for Use in Repairing Rubber Articles. JAMES FLOYD DUNCAN, Mount Vernon, Ill. Filed April 16, 1921.

23,353.—*Title:* "CUPID'S HAUNT." (For Articles of Women's Apparel, Ladies' Waists or Blouses, Underwear, Hosiery, Neckwear, Sweaters, Corsets, Gloves, and Dresses.) ELSIE M. EVANS, New York, N. Y. Filed February 7, 1921.

23,354.—*Title:* "FORTUNE." (For Egg-Noodles.) FORTUNE PRODUCTS COMPANY, Chicago, Ill. Filed January 31, 1920.

23,355.—*Title:* "F C L." (For Labels Applied to Containers for a Mange and Dandruff Remedy.) RICHARD D. FURNISH, Boston, Mass. Filed March 10, 1921.

23,356.—*Title:* "MARGIE CAP NET." (For Hair-Nets.) GIBBS & CO., Chicago, Ill. Filed May 9, 1921.

23,357.—*Title:* "CHARLOTTE FRINGE NET." (For Hair-Nets.) GIBBS & CO., Chicago, Ill. Filed May 9, 1921.

23,358.—*Title:* "CHARLOTTE CAP NET." (For Hair-Nets.) GIBBS & CO., Chicago, Ill. Filed May 9, 1921.

23,359.—*Title:* "ARROW." (For a Cereal Malt Beverage.) THE GLOBE BOTTLING & SALES CO., Baltimore, Md. Filed December 26, 1919.

23,360.—*Title:* "MADE-RIGHT." (For Brooms.) THE GRIFFIN BROOM COMPANY, Chanute, Kans. Filed June 22, 1921.

23,361.—*Title:* "BERG'S BEST." (For Malt Extracts.) HENNING WEUNERATEN INCORPORATED, Chicago, Ill. Filed June 17, 1921.

23,362.—*Title:* "JANNETTA." (For Hair-Nets.) MOSES HERZOG, New York, N. Y. Filed June 23, 1921.

23,363.—*Title:* "PEANUT KAKE." (For Candy.) WALTER J. HIRSCH COMPANY, Chicago, Ill. Filed April 23, 1921.

23,364.—*Title:* "SILVER GLOSS LAUNDRY SOAP." (For Soap.) A. HOEFNER & SONS, Buffalo, N. Y. Filed April 27, 1921.

23,365.—*Title:* "APPLE BRAND SHORTENING." (For a Compound of Choice Cotton-Seed Oil and Vegetable Stearin for Cooking Purposes.) INTERNATIONAL REFINING COMPANY, San Antonio, Tex. Filed June 17, 1921.

23,366.—*Title:* "HEDRELEF." (For Medicine Tablets for Headache, Neuralgia, Colds, La Grippe, Aches, and Pains.) CHARLES E. KIESLING, Canton, Ohio. Filed June 15, 1921.

23,367.—*Title:* "THE BULL DOG GRIP." (For Leather Goods, Traveling-Bags, and Suitcases.) S. KORNBERG, Chicago, Ill. Filed March 23, 1921.

23,368.—*Title:* "GRANDMA'S CAKE." (For Cake.) LANTZ BROS. BAKING CO., St. Louis, Mo. Filed April 11, 1921.

23,369.—*Title:* "HOME RUN." (For Wrappers Inclosing or Containing Cigarettes.) LIGGETT & MYERS TOBACCO COMPANY, New York, N. Y. Filed April 15, 1921.

23,370.—*Title:* "GOOD VALUE." (For Toilet-Paper Being Applied to the Packages Containing the Same.) MAY DEPARTMENT STORES COMPANY, New York, N. Y. Filed May 23, 1921.

23,371.—*Title:* "OLD LINEN." (For Toilet-Paper, Being Applied to the Packages Containing the Same.) MAY DEPARTMENT STORES COMPANY, New York, N. Y. Filed May 23, 1921.

23,372.—*Title:* "THE WINNER." (For Toilet-Paper, Being Applied to the Packages Containing the Same.) MAY DEPARTMENT STORES COMPANY, New York, N. Y. Filed May 23, 1921.

23,373.—*Title:* "SANATORY." (For Toilet-Paper, Being Applied to the Packages Containing the Same.) MAY DEPARTMENT STORES COMPANY, New York, N. Y. Filed May 23, 1921.

23,374.—*Title:* "HAPPY HOME." (For Bread.) MEMPHIS BREAD COMPANY, Memphis, Tenn. Filed January 3, 1921.

23,375.—*Title:* "THACHER ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Thacher Ice Company, Pittsburgh, Pa. Filed June 30, 1921.

23,376.—*Title:* "OUR FAVORITE CREAMERY BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Terre Haute Pure Milk & Ice Cream Company, Terre Haute, Ind. Filed June 20, 1921.

23,377.—*Title:* "VIRGINIA'S BEST CREAMERY BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Farmers Mutual Creamery, Inc., Abingdon, Va. Filed June 20, 1921.

23,378.—*Title:* "POTOMAC CREAMERY BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Potomac Butter Company, Washington, D. C. Filed June 20, 1921.

23,379.—*Title:* "ODOM'S QUALITY ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Odom Ice Cream Company, Macon, Ga. Filed June 20, 1921.

23,380.—*Title:* "MILLER'S QUALITY ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Miller Creamery Company, Oakland, Calif. Filed June 20, 1921.

23,381.—*Title:* "QUAKER ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Quaker Creamery Company, Minneapolis, Minn. Filed June 20, 1921.

23,382.—*Title:* "KINNETT'S VELVET ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Kinnett Coal & Ice Company, Macon, Ga. Filed June 20, 1921.

23,383.—*Title:* "TELLING'S ICE CREAM DOLLY MADISON." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. Filed June 20, 1921.

23,384.—*Title:* "TELLING'S ICE CREAM MARTHA WASHINGTON." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. Filed June 20, 1921.

23,385.—*Title:* "TELLING'S ICE CREAM BELLE VERNON." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. Filed June 20, 1921.

23,386.—*Title:* "TELLING'S VANILLA ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. Filed June 20, 1921.

23,387.—*Title:* "SANITARY ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Johnstown Sanitary Dairy Company, Johnstown, Pa. Filed June 20, 1921.

23,388.—*Title:* "METROPOLITAN ICE CREAM." (For Cartons Containing Ice-Cream.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Metropolitan Ice Cream Company, Newark, N. J. Filed June 20, 1921.

23,389.—*Title:* "DAINTY BREAD." (For Waxed-Paper Bread-Wrappers Containing Bread.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Sanitary Bakery, Berwick, Pa. Filed June 20, 1921.

23,390.—*Title:* "UNITED STATES PANAMA CANAL CIGAR." (For Cigars.) H. & G. METENER, Albany, N. Y. Filed June 20, 1921.

23,391.—*Title:* "RED SEAL PURE WOOL POWDER PUFFS." (For Powder-Puffs.) MORRIS, MANN & REILLY, Chicago, Ill. Filed May 11, 1921.

23,392.—*Title:* "PURE SUGAR STICK CANDY." (For Stick-Candy.) THE NATIONAL PAPER CAN COMPANY, Milwaukee, Wis. Filed April 9, 1921.

23,393.—*Title:* "NO KIL SCRATCH FEED." (For Bags of Poultry-Feed.) NORTHRUP, KING & CO., Minneapolis, Minn. Filed May 27, 1921.

23,394.—*Title:* "TRIO NUGGETS." (For Packages Containing Candy and Confectionery.) ANDREW OLSEN, Jr., San Francisco, Calif. Filed August 13, 1921.

23,395.—*Title:* "WALNUT NUGGETS." (For Packages Containing Candy and Confectionery.) ANDREW OLSEN, Jr., San Francisco, Calif. Filed April 13, 1921.

23,396.—*Title:* "PRINCESS HAIR PINS." (For Boxes and Packages Containing Hairpins.) A. E. OPPENHEIMER & BRO., Philadelphia, Pa. Filed April 25, 1921.

23,397.—*Title:* "PEP-STEP." (For Cartons Containing Foot-Pads.) PEP-STEP CORP., Cedar Rapids, Iowa. Filed April 16, 1921.

23,398.—*Title:* "PINE SALVE." (For Bottles Containing a Soothing and Healing Salve.) PINE SALVE CO., Norfolk, Va. Filed May 10, 1921.

23,399.—*Title:* "R M WASH BOILER—HELPS MAKE THE PERFECT WASH DAY—RELIABLY MADE BY HAND." (For Washboilers.) THE REPUBLIC METALWARE COMPANY, Buffalo, N. Y. Filed April 19, 1921.

23,400.—*Title:* "WHITE LABEL BRAND." (For Pure Georgia Cane-Syrup.) W. H. ROBINSON, Cairo, Ga. Filed April 15, 1921.

23,401.—*Title:* "ROYAL SCOTTISH GOLF CO., LIMITED STANDARD BALL." (For Cardboard Boxes Containing Golf-Balls.) ROYAL SCOTTISH GOLF CO. LIMITED, Brooklyn, N. Y. Filed July 28, 1921.

23,402.—*Title:* "POTATO." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed June 18, 1921.

23,403.—*Title:* "HONEY KRUST." (For Bread.) SANIWAX PAPER CO., Kalamazoo, Mich. Filed June 18, 1921.

23,404.—*Title:* "GREEN RIVER." (For Soft Drinks.) SCHOENHOFEN COMPANY, Chicago, Ill. Filed March 14, 1921.

23,405.—*Title:* "WIRTHMORE BUTTERMILK BABY-CHICK FOOD." (For Buttermilk Baby-Chick Food.) ST. ALBANS GRAIN COMPANY, St. Albans, Vt. Filed April 5, 1920.

23,406.—*Title:* "B. & J. R." (For Cigar-Boxes.) STRAUSS BROS., Chicago, Ill. Filed April 16, 1921.

23,407.—*Title:* "TIPTON-BERRY'S GUARANTEED MILD HAVANA PAGEANT." (For Cigars.) THE TIPTON-BERRY CIGAR COMPANY, Elwood, Ind. Filed June 23, 1921.

23,408.—*Title:* "TRUE SHAPE." (For Hosiery.) TRUE SHAPE HOSIERY CO., Philadelphia, Pa. Filed June 25, 1921.

23,409.—*Title:* "TRUE SHAPE." (For Hosiery for Men.) TRUE SHAPE HOSIERY CO., Philadelphia, Pa. Filed June 25, 1921.

23,410.—*Title:* "TOPAZ BRAND MALT EXTRACT." (For Malt Extract.) EDWIN TRUTHAN, New York, N. Y. Filed June 23, 1921.

23,411.—*Title:* "WATKINS MULSIFIED COCOANUT OIL SHAMPOO." (For Advertising Purposes for Watkins Mulsified Cocoanut-Oil Shampoo.) THE R. L. WATKINS COMPANY, Cleveland, Ohio. Filed April 22, 1921.

23,412.—*Title:* "LA SEBANA." (For Cigars, Cigarettes, and Tobacco.) ALBERT WORCH, St. Paul, Minn. Filed June 30, 1921.

23,413.—*Title:* "E-Z WAY." (For Container for Soap in Powder Form.) EDWARD J. WATTS, Berkeley, Calif. Filed June 16, 1921.

PRINTS

REGISTERED SEPTEMBER 6, 1921.

5,730.—*Title:* "CLAR-O-TYPE." (For Material for Cleaning Typewriters.) LEON BANOV, New York, N. Y. Filed March 24, 1921.

5,731.—*Title:* "BLUE BACK BLADES." (For Advertising Purposes for Safety-Razor Blades.) AUGUSTUS HAGER BRYANT, Bloomfield, N. J., and New York, N. Y. Filed June 22, 1921.

5,732.—*Title:* "THE MINERAL WAX TWINS, CLEAN AND GOOD." (For Advertising Purposes for Inked Ribbons and Carbon-Sheets for Duplicating or Transferring Impressions.) THE COLUMBIA CARBON COMPANY, Dayton, Ohio. Filed March 8, 1921.

5,733.—*Title:* "THE SYMBOL OF FAIRY PURITY." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed June 25, 1921.

5,734.—*Title:* "GOLD DUST COSTS LITTLE GOES FAR." (For Advertising Purposes for Gold Dust Washing-Powder.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed June 25, 1921.

5,735.—*Title:* "KEPT CLEAN WITH GOLD DUST." (For Advertising Purposes for Gold Dust Washing-Powder.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed June 25, 1921.

5,736.—*Title:* "FAIRY SOAP PURE WHITE FLOATING." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed June 25, 1921.

5,737.—*Title:* "FOR YOUR SPRING CLEANING GOLD DUST." (For Advertising Purposes for Gold Dust Washing-Powder.) THE N. K. FAIRBANK COMPANY, New York, N. Y. Filed June 25, 1921.

5,738.—*Title:* "KELLY COMFORT CHAIRS." (For Advertising Purposes for Reclining-Chairs.) J. A. KELLY & BROTHERS, Clinton, Iowa. Filed June 22, 1921.

5,739.—*Title:* "IT'S THE TASTE THAT TELLS." (For Advertising Purposes on Ice-Cream.) ABNER PROCTOR MCLENDON, Waco, Tex. Filed April 5, 1921.

5,740.—*Title:* "NYAL CORN REMOVER FOR MINE." (For Advertising Purposes for a Corn Remedy.) NYAL CO., Detroit, Mich. Filed February 16, 1921.

5,741.—*Title:* "4TH OF JULY." (For Advertising Purposes for Bread.) OSWALD JAEGER BAKING CO., Milwaukee, Wis. Filed June 22, 1921.

5,742.—*Title:* "LABOR DAY." (For Advertising Purposes for Bread.) OSWALD JAEGER BAKING CO., Milwaukee, Wis. Filed June 22, 1921.

5,743.—*Title:* "THANKSGIVING." (For Advertising Purposes for Bread.) OSWALD JAEGER BAKING CO., Milwaukee, Wis. Filed June 22, 1921.

5,744.—*Title:* "PINKS THE DISTINCTIVE STRAW." (For Advertising Purposes for Drinking-Straws.) ALBERT PICK & COMPANY, Chicago, Ill. Filed April 19, 1920.

5,745.—*Title:* "GO ON AND GET A PIPE AND SOME P. A.!" (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed June 16, 1921.

5,746.—*Title:* "P. A. IN A PIPE? SAY, NOW, YOU'RE SETTING REAL WORDS TO REAL MUSIC!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Filed June 16, 1921.

5,747.—*Title:* "IT'S PRINCE ALBERT'S QUALITY THAT RINGS SO TRUE TO YOUR TASTE!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Filed June 16, 1921.

5,748.—*Title:* "GET YOURS TOO! PUT IT UP TO A PIPE—AND P. A.!" (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed June 16, 1921.

5,749.—*Title:* "GEE!—HOW GOOD A PIPE TASTES WITH P. A. FOR THE PACKING!" (For Advertising Purposes for Smoking-Tobacco.) R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Filed June 16, 1921.

5,750.—*Title:* "YOU BET YOU'LL ENJOY A JIMMY PIPE—IF IT'S PACKED WITH PRINCE ALBERT!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company, Winston-Salem, N. C. Filed June 16, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

A. BOURJOIS & CO., INC., *v.* KATZEL.

Decided June, 1921.

1. TRADE-MARKS—INFRINGEMENT—IMPORTED GOODS.
   Where B. has bought from a French manufacturer the business and good-will in the United States and sells goods manufactured by the French manufacturer, which goods bear the trade-marks used by said manufacturer, and where K. imports and sells the same goods bearing the same trade-marks, *Held* that K. does not infringe by such sale.
2. SAME—INTENDED TO PROTECT OWNER AND THE PUBLIC.
   Trade-marks are intended to show without any time limit the origin of the goods they mark so that the owner and the public may be protected against the sale of one man's goods as the goods of another man. If the goods sold are the genuine goods covered by the trade-mark the rights of the owner of the trade-mark are not infringed by such sale.
3. SAME—RIGHT TO CHANGE CHARACTER AND QUALITY OF GOODS.
   It is not doubted that an American citizen may buy the business of a foreigner in the United States, with its accompanying trade-marks and having done so may subsequently change the character and quality of the goods at pleasure.

Messrs. Briesen & Schrenk (*Mr. Hans V. Briesen* of counsel) for plaintiff-appellee.

Mr. John B. Doyle (*Mr. John R. Rafter* on the brief) for defendant-appellant.

Before WARD, HOUGH, and MANTON, Circuit Judges.

WARD, *Cir. J.*:

In July, 1913, the plaintiff, a corporation of the State of New York, bought the business and good will in the United States of A. Bourjois & Cie., E. Wertheimer & Cie., successeurs, a French firm which had since 1879 sold in the United States a face-powder manufactured by it in France described as "Java." The French firm registered in the United States Patent Office the trade-mark "Java" in 1888, the trade-mark "A. Bourjois & Cie." in 1908 and the word "Java" on the top and side of its box in 1912. The plaintiff in 1916, 1918 and 1919 registered three other trade-marks used by the French firm for face-powder. Under all these trade-marks the plaintiff imports in bulk the face-powder manufactured by the French firm and packs and sells it here in boxes.

The defendant conducts a retail pharmacy in New York city and sells in New York, New Jersey, and other States the same genuine face-powder manufactured by the French firm imported by her in its original boxes on which are printed its trade-marks and labels. The only difference between the trade-mark and labels of A. Bourjois & Co., Inc., and A. Bourjois & Cie., E. Wertheimer & Cie., successeurs, is that the powder sold by the defendant is called Poudre de Riz de Java, as the plaintiff called it until 1916, when it altered the name to Poudre Java, and that on the bottom of the plaintiff's boxes is printed "Trade Mark Reg. U. S. Pat. Off. Made in France. Packed in the U. S. A. by A. Bourjois & Co., Inc., of N. Y., succ'rs in the U. S. to A. Bourjois & Cie. and E. Wertheimer & Cie."

The plaintiff filed this bill on the ground of infringement of its registered trade-marks, praying that the defendant be enjoined both provisionally and finally from selling the French firm's face-powder under the trade-mark "Java" or the trade-mark "Bourjois," or under any of the plaintiff's registered trade-marks, and for an accounting.

The district judge granted the motion for a preliminary injunction and the defendant appeals from that order.

It is to be noticed in the first place that the residence and citizenship of both parties being in the State of New York no question of unfair competition is involved, and indeed there is no evidence of any such competition.

The assignment from A. Bourjois & Cie., A. Wertheimer & Cie., successeurs, to A. Bourjois & Co., Inc., is not produced, but we assume for the purposes of this case that the plaintiff is entitled to the French firm's trade-marks under *Menendez* v. *Holt* (128 U. S., 514) and *Wertheimer* v. *Batcheller*, (185 F. R., 850,) and that it would be a breach of the French firm's obligations to sell its face-powder in this country. (*Le Page* v. *Russia Cement Co.*, 51 F. R., 941.)

We set on one side all authorities cited by the plaintiff arising out of sales under the same trade-marks of two different competitive articles manufactured by different persons, such as *Hanover Milling Co.* v. *Metcalf*, (240 U. S., 403;) *Scandinavia Co.* v. *Asbestos Co.*, (257 F. R., 934,) because it is quite

clear that the defendant could not sell face-powder manufactured by her or by any other person than A. Bourjois & Cie. under these trade-marks. But the article sold by the plaintiff and covered by its registered trade-marks is the face-powder actually manufactured by the French firm, imported in bulk and packed here by the plaintiff, which is the precise article imported by the defendant in the French firm's original boxes and sold here. The question is whether the defendant has not the right to sell this article under the trade-marks which truly indicate its origin. We think she has. The question has been so decided in three cases in this circuit. (*Apollinaris Co.* v. *Scherer*, 27 F. R., 18; *Russian Cement Co.* v. *Frauenhar*, 133 F. R., 518, and *Gretsch* v. *Schoening*, 238 F. R., 780.)

In the Apollinaris case Saxlehner, owner of the Hunyadi Janos Spring in Hungary, gave to the Apollinaris Company the exclusive right to sell the water under the trade-mark "Hunyadi Janos" in Great Britain and the United States. The Apollinaris Company registered the name and the label as trade-marks in the United States Patent Office. Scherer applied to Saxlehner to sell him the water for importation into the United States, which Saxlehner refused to do, telling him of the Apollinaris Company's exclusive rights. Thereafter Scherer purchased the water from other parties in Germany, imported it into the United States and sold it under the name Hunyadi Janos and with the same label as the Apollinaris Company's, with one immaterial variation. Judge Wallace said:

> The complainant established an agency for the sale of the water in this country, but, as it now asserts, is unable to maintain its own prices for the article because the defendant purchases the water in Germany from persons to whom it has been sold by Saxlehner, imports it and sells it here at lower prices. It is shown that the defendant purchases the water in bottles under the label adopted by Saxlehner containing the cautionary notice, and that he does this after having applied to Saxlehner to sell him the water and been refused and informed by Saxlehner of the complainant's rights. The bill of complaint proceeds in part upon the theory that the defendant is infringing the complainant's trade mark in the name and label applied to the water, but all the averments in this behalf may be disregarded as irrelevant to the real question in the case. No doubt is entertained that the name when applied to the water is a valid trade mark and that the complainant should be protected against the unauthorized use of the trade mark by another. The complainant would be entitled to this protection entirely irrespective of the registration of its trade mark in the Patent Office. The same observations apply to the use of the label. The complainant has a common-law right to the name and the label as a trade mark by which its mineral waters are identified, and as the necessary diversity of citizenship exists between the parties to confer jurisdiction upon this court the only effect of registration is to afford and perpetuate the evidence of the complainant's title. But the defendant is selling the genuine water, and therefore the trade mark is not infringed. There is no exclusive right to the use of a name or symbol or emblematic device except to denote the authenticity of the article with which it has become identified by association. The name has no office except to vouch for the genuineness of the thing which it distinguishes from all counterfeits, and until it is sought to be used as a false token to denote that the product or commodity to which it is applied is the product or commodity which it properly authenticates, the law of trade mark cannot be invoked. The real question in the case is whether the defendant is unlawfully interfering with any exclusive right of the complainant to control the sale of the water in the territory ceded to the complainant for that purpose by Saxlehner. It is manifest that the acts of the defendant tend to deprive the complainant of the substantial advantages which it expected to obtain from the privilege transferred to it by Saxlehner. It can no longer maintain its own prices for the mineral water or hold out the inducements it formerly could to the agents it has selected to introduce the article to the patronage of the public and build up a trade. It can no longer protect itself as efficiently against the chances of a spurious article being palmed off upon the public as its own. It is therefore measurably deprived by the acts of the defendant of the profits and benefits which it contemplated when it purchased from Saxlehner the exclusive right of importing the water into this country and selling it here. If the complainant could acquire an exclusive right to sell the water here the case would be plain. If it could not it still remains to consider whether the defendant has violated any duty which the law recognises in his relations to the transaction. There would seem to be no doubt that the agreement between Saxlehner and the complainant was a valid one. He had the right to dispose of his property in the product of his spring as he saw fit, and it is not apparent how the transfer of a part of his exclusive right to vend the water, by which a territorial division in its enjoyment was created, can be deemed obnoxious to any principle of public policy as tending to create a monopoly or an unlawful restraint of trade. If Saxlehner were now endeavoring to compete with the complainant in the sale of the water in the ceded territory, his conduct would furnish a ground for equitable jurisdiction and the remedy of an injunction because of the inadequacy of a remedy at law. (Bisp. Eq., 465.) It is equally clear that if the defendant were coöperating with Saxlehner collusively to violate the complainant's right to the exclusive sale of the water he also would be restrained. In such a case the foundation of equitable redress would be the breach of covenant on the part of Saxlehner, and the defendant when acting in aid would be identified with Saxlehner and amenable to the remedy as though he were Saxlehner himself. But it is important to bear in mind that the case would be one for equitable cognisance and the remedy of an injunction merely upon the ground that the complainant's damages arising from the breach of covenant could not be reparably redressed at law.

In the Le Page case the defendant bought in bulk of third parties glue made and sold by the plaintiff under the trade name of Le Page's Glue and bottled and sold it under that name. We said:

> Counsel for complainant argues that defendants should be enjoined from applying the name "Le Page" to a glue made by complainant, which is inferior to the most expensive brands sold by complainant under that name, on the ground that this is a gross fraud and an imposition upon the public. How such conduct constitutes a fraud upon the public does not appear from the evidence. The labels on defendants' bottles contain no statement as to whether the glue put up by it is either of a superior or inferior quality, but merely that this glue is manufactured by complainant and is bottled by defendants, and that "this glue is known all over the world as the best for cementing wood, leather, glass," etc. If the public gets an inferior quality of glue when it purchases that bottled by defendants, it is because the complainant has seen fit to sell such glue under the same trade name as it had applied to a superior article and has chosen thus to reap the profit from the sale to the public of two qualities or grades of the same article under the same trade name. A court of equity will not enjoin a person from affixing to goods sold by him their true name and description in the absence of any evidence of an attempted fraud, such as by representing his goods as of a different origin or quality or manufacture from what they actually are. The case of *Gillott* v. *Kettle*, (3 Dser. 624,) cited by complainant as "very close in point," illustrates the rule and its application. There the defendant removed the labels from an inferior quality of pens manufactured by complainant and affixed other labels which imitated the labels on a superior quality of pens made by complainant. The court held that "by such a practice the defendant endeavors by a false representation to effect a dishonest purpose; commits a fraud upon the public and upon the manufacturer." But here there is no false representation by spurious label or false statement. The label tells the truth, and nothing but the truth. There is no fraud upon the public, for it gets the genuine, identical thing described by the label, (*Apollinaris Co.* v. *Scherer*, C. C., 27 Fed., 18;) there is no fraud upon the manufacturer, for its vendees resell its manufacture, to which it has applied its name, (*Vitascope Co.* v. *United States Phonograph Co.*, C. C., 83 Fed., 80,) coupled with the statement that it (the vendee) is responsible for the bottling of the manufacture.

In the Gretsch case the Gretsch Company had the exclusive agency for the United States of the sale of violin-strings made in Germany by Mueller under the name "Eternelle," and, with Mueller's approval, registered the name as the trade-mark in the United States Patent Office. Schoening purchased such strings in Germany and imported them into the United States. The case arose under section 27 of the Trade-Mark Act as to the importation of merchandise copying or simulating a trade-mark registered in the United States Patent Office. After referring to the two foregoing cases we said:

> The rationale of both decisions is that the defendant in each case was selling the genuine article identified by the trade mark, and the public was not misled, but was getting exactly what it paid for. These decisions, however, were made before the act in question was passed. Assuming that Congress could protect the owner of a registered trade mark against the importation by third parties of the genuine article under that trade mark, has it done so? We think not. The act prohibits the entry of imported merchandise which shall "copy or simulate a trade mark registered under it." The obvious purpose is to protect the public and to prevent anyone from importing goods identified by their registered trade mark which are not genuine. In this case, however, the imported goods were the genuine articles identified by the trade mark. We assume that Schoening has a valid trade mark, even if he does not manufacture the strings, (*Menendez* v. *Holt*, 128 U. S., 514,) applying to the whole of the United States and still are of opinion that it is not infringed by one who buys in Germany the genuine article identified by the trade mark, imports it into the United States and sells it so marked here.

The analogy between patents and trade-marks is not complete. A patent gives the patentee a monopoly to make, sell, and use and grant to others the right to make, sell, and use the subject patented in the United States for the term of the patent. Hence articles lawfully made, used, and sold in foreign countries cannot be sold in this country if they infringe the patent. Trade-marks, on the other hand, are intended to show, without any time limit, the origin of the goods they mark so that the owner and the public may be protected against the sale of one man's goods as the goods of another man. If the goods sold are the genuine goods covered by the trade-mark the rights of the owner of the trade-mark are not infringed.

The order is reversed.

MANTON, *J.*, concurs.

HOUGH, *Cir. J.*, (dissenting:)

The majority opinion states as the question in this case whether defendant—

> has not the right to sell this article under the trade marks which truly indicate its origin.

With this statement I agree, but disagree with the meaning given by the decision to the word "origin."

It is not yet settled whether a trade-mark is to be primarily regarded as protecting the trade-mark owner's business from a species of unfair competition or protecting the public from imitations.

The decision in this case seems to me to lean the wrong way, because in my opinion a trade-mark is primarily a protection to the owner's business. It is attached to the business, is a part of it, and cannot be detached therefrom, there being no such thing as the transfer of a trade-mark in gross. If this be true it makes no difference whether the plaintiff's business grew out of an agency for another, provided only that it be shown that it is an honest business and belongs to the person who attached and, perhaps, duly registered the trade-mark which describes the product of that business.

This plaintiff made a business in Java powder. It is an honest business, and whatever rights the French manufacturer had in the United States became the rights of the plaintiff. If, therefore, the primary function of the trade-mark is to protect this plaintiff's business in his own country, it makes no difference at all that the genuine French article is the thing offered by defendant. That genuine article has become an infringement because the business of dealing in that article within the United States is the plaintiff's business.

PETITION FOR REHEARING.

Mr. Hans V. Briesen and *Mr. William A. Redding* of counsel for petitioner; *L. E. Varney* as *amicus curiae*.

PER CURIAM:

We are asked to certify the question involved in this case to the Supreme Court on the ground of its supreme importance in view of the many businesses with their accompanying trade-marks of German citizens bought during the European war by citizens of this country from the custodian of alien property.

It is not doubted that an American citizen may buy the business of a foreigner in the United States, with its accompanying trade-marks, and having done so may subsequently change the character and quality of the goods at pleasure. But that is not this case. The owner of the trade-mark cannot change them and still assert that they are the actual goods manufactured by the foreigner and imported by him. Such a misrepresentation would deprive him of the protection of the law.

The precise question decided by us has been misapprehended. The trade-marks and labels complained of are those of the French house, and the plaintiff asserts that it is selling under them face-powder manufactured by the French house in France and imported by it in bulk and repacked here. It treats this repacking as a very material consideration.

The defendant says that this is precisely the product made by the French house in France and imported by her in the boxes of the French house with the same trade-marks and labels which she is selling here.

If in the case of *Menendez* v. *Holt*, Holt had asserted that he was selling the flour under the trade-mark Favorita, which had been made by a miller under that trade-mark, the case would be more like the one under consideration.

It is sought to distinguish the three cases decided in this circuit which we have followed upon what we think a misapprehension of their facts.

It is said that in the Apollinaris case that company was the mere agent of Saxlehner; this is not so. The company bought the genuine spring-water from Saxlehner, imported it into the United States and sold it here as the water of that spring. All that it owed Saxlehner was the price it agreed to pay; there was no relation whatever of agency. Judge Lacombe, in 91 Fed. Rep., 588, and Mr. Justice Brown, in 179 U. S., 19, both said that the company was not Saxlehner's agent.

In the Le Page case it was said that the plaintiff owner of the trade-mark sold the Le Page glue to

the defendant; this is not so. The plaintiff refused to sell to the defendant, who thereupon bought the glue from third parties in bulk and rebottled it.

So in the Gretsch case it is said that Schoening was merely the exclusive agent of Mueller for the sale of his violin-strings called "Eternelle" in the United States. The district judge found that there was an exclusive agency, though the evidence on the subject was very meager, and we, assuming that to be true and also that Schoening had a valid trade-mark, held, nevertheless, that Gretsch could lawfully import Mueller strings from Germany and sell them here.

The petition is denied.

Adjudicated Patent.

(U. S. C. C. A. Pa.) The Barkley patent, No. 1,202,646, for coupon bank deposit book, void for lack of invention. *Bankers' Service Corporation* v. *Landis Christmas Savings Club Co.*, 273 F. R., 722.

International Bureau at Habana—Protection of Trade-Marks.

(ORDER No. 2,685.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 6, 1921.

Under the convention adopted for the establishment of the International Bureau at Habana and regulations of such Bureau (280 O. G., 195) it is provided, to carry into effect the convention for the protection of trade-marks, that the legal representative of the administration of the country of origin shall communicate to the International Bureau (articles 2–1) the claim of the owner of the mark.

Hereafter no official abstract of title need be furnished by the applicant, but a fee of $5 must be paid the U. S. Patent Office, which will make the title search and perform the other work in connection with the certificate to the Habana Bureau.

Hereafter the applicant need not fill in the official form for such certificate, but in addition to paying the fee of $5 must provide the Office with (*a*) an international money order for $50 to the order of "Director of the International Bureau, Habana;" (*b*) an electrotype of the trade-mark, not larger than 10 centimeters in either dimension; (*c*) should the United States registration claim color as a distinctive element of the trade-mark he shall furnish thirty copies of the mark printed on paper, reproduced in color; (*d*) a statement including (1) the name of the owner of the mark; (2) the address of the owner of the mark; (3) the number and date of registration of the mark in the United States Patent Office, and (4) a translation into Spanish of the particular description of goods as stated in the certificate of registration.

THOMAS E. ROBERTSON,
Commissioner.

Fee for Recording Articles of Incorporation.

(ORDER No. 2,688.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 9, 1921.

For the present the Patent Office is recording the articles of incorporation of companies, so that their names may be available for trade-mark searches. This is done at the request of the attorneys and is not advocated by the Office. As long as this practice continues a charge will be made for such record of $1.00 for 300 words or less; $2.00 if over 300 words and under 1,000 words; $1.00 for each additional 1,000 words or portion thereof.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., August 31, 1921.

The Premier Cabinet Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Polyphonwerke Aktiengesellschaft, 76 Markgrafenstrasse, Berlin, Germany, and Premier Grand Piano Corporation, 510–532 West Twenty-third street, New York, N. Y., for registrations of trade-marks and trade-mark registered December 19, 1916, No. 114,546, to The Premier Cabinet Company, 495–497 Hepburn street, Williamsport, Pa., and a notice of such declaration sent by registered mail to The Premier Cabinet Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said The Premier Cabinet Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

KARL FENNING,
Acting Commissioner.

Patents Nos. 1,390,261 to 1,390,974.

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KARL FENNING,
Acting Commissioner.

Adverse Decisions in Interference.

PATENT No. 1,351,150.

On August 8, 1921, a decision was rendered that Richard Battle was not the first inventor of the subject-matter covered by claims 2, 3, and 5 of his Patent No. 1,351,150, subject, "Device for attaching electric-light fixtures to outlet-boxes," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,333,027.

On August 16, 1921, a decision was rendered that Alben E. Lundell was not the first inventor of the subject-matter covered by claims 2 and 3 of his Patent No. 1,333,027, subject "Telephone-switch-controlling system," and no appeal having been taken within the time allowed, such decision has become final.

PATENT No. 1,312,706.

On August 16, 1921, a decision was rendered that Michael Schwartz was not the first inventor of the subject-matter covered by claim 8 of his Patent No. 1,312,706, subject "Selective-ringing telephone system," and no appeal having been taken within the time allowed such decision has become final.

PATENT No. 1,324,430.

On August 6, 1921, a decision was rendered that Albert Henry Widgley was not the first inventor of the subject-matter covered by claim 1 of his Patent No. 1,324,430, subject "Ignition system for internal-combustion engines," and no appeal having been taken within the time allowed such decision has become final.

Interference Defined.

RULE 93. An interference is a proceeding instituted for the purpose of determining the question of priority of invention between two or more parties claiming substantially the same patentable invention. In order to ascertain whether any question of priority arises the Commissioner may call upon any junior applicant to state in writing the date when he conceived the invention under consideration. All statements filed in compliance with this rule will be returned to the parties filing them. In case the applicant makes no reply within the time specified, not less than ten days, the Commissioner will proceed upon the assumption that the said date is the date of the oath attached to the application. The fact that one of the parties has already obtained a patent will not prevent an interference, for, although the Commissioner has no power to cancel a patent, he may grant another patent for the same invention to a person who proves to be the prior inventor.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Mark section will include: Trade-Marks published under the act of 1905; Trade-Marks registered under the act of 1905 and under the act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

Condition of Applications Under Examination at Close of Business September 8, 1921.

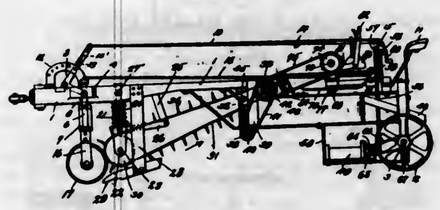
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Sept. 20; oldest amended, Nov. 12.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Mar. 24	Mar. 28	719
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Dec. 2	Jan. 25	1,608
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 18	Dec. 24	721
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements; Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Sept. 20	Mar. 16	1,693
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Oct. 19	Jan. 3	882
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilizers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 2	Mar. 16	964
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Feb. 25	Apr. 11	1,780
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 9	July 13	738
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 3	July 12	806
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 5	June 15	1,254
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	June 1	May 21	437
222	12. PIERCE, P. P., Machine Elements	Jan. 22	May 20	1,130
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 6	May 27	1,501
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 17	July 5	858
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 30	Jan. 27	1,687
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Oct. 8	Jan. 31	1,682
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 13	May 6	924
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Nov. 1	Feb. 4	1,656
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 21	Mar. 17	966
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 2	Apr. 22	1,367
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Jan. 13	May 23	623
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	May 13	June 9	496
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 31	May 21	833
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 10	May 4	964
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 30	June 22	256
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Jan. 24	Apr. 7	784
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Mar. 17	May 9	1,264
225	28. BENSON, A. R., Internal-Combustion Engines	Dec. 6	Apr. 8	1,382
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Jan. 20	June 10	756
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 7	June 23	1,274
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 28	Dec. 1	2,042
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Nov. 1	June 6	1,012
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 5	Apr. 9	746
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	June 16	July 12	371
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 8	July 25	665
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Mar. 19	Mar. 25	1,643
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 17	Feb. 2	2,214
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 15	Apr. 14	1,123
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 12	Dec. 30	1,838
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 10	2,190
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Jan. 24	Apr. 7	898
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Nov. 29	Nov. 12	2,305
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 10	Jan. 5	1,529
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Dec. 23	June 4	497
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Feb. 5	Mar. 7	1,145
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Feb. 10	Mar. 30	1032
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Dec. 4	Mar. 29	1,125
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Nov. 9	June 15	4,370
	Designs	Dec. 1	Mar. 1	2,108
	Labels and Prints	July 1	Aug. 18	376

Total number of applications awaiting action, excluding Trade-Mark division, 54,582; Trade-Mark division, 6,854.

PATENTS

GRANTED SEPTEMBER 13, 1921.

1,390,261. COMBINED BEET-HARVESTER. LAWRENCE ADAMS, Layton, Utah. Filed June 24, 1920. Serial No. 391,309. 10 Claims. (Cl. 55—108.)



1. A machine of the class described including a portable structure, an upwardly and rearwardly extending conveying belt, outwardly projecting beet engaging spikes upon the belt for entering the soil and actuating the belt, and means operated by said belt for gripping the elevated beets and removing them from the belt.

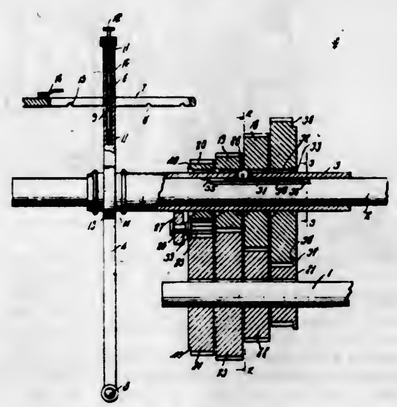
4. The combination with a movably supported structure, of an upwardly extending conveying belt, beet engaging spikes extending therefrom for entering the soil and actuating the belt during the movement of the machine, opposed belts for receiving elevated beets therebetwen, means for transmitting motion to said opposed belts from the conveying belt, topping means supported above said opposed belts, and means for transmitting motion to said topping means from the conveying belt.

6. The combination with a movable structure and beet engaging and elevating means operated by contact with the ground, of opposed gripping belts for engaging elevated beets and conducting them away from said elevating means, topping means above the gripping belts, and mechanism operated by the beet elevating means for driving the gripping belts and the topping means.

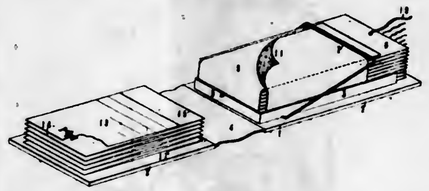
10. The combination with a portable structure and digging means carried thereby, of an upwardly extending endless conveyer, and beet engaging spikes projecting from the conveyer and movable successively by contact with the ground to engage and elevate beets loosened by the digging means.

1,390,262. GEARING. BERT ANDERSON, Granger, Tex. Filed Feb. 12, 1918. Serial No. 216,801. 8 Claims. (Cl. 74—59.)

1. A variable speed transmission device comprising a driving shaft recessed longitudinally and transversely thereof, a plurality of driving gears mounted on the shaft and provided with key-ways coöperating with the said recesses, a plurality of driven gears in mesh with the driving gears, a key-wheel movable longitudinally of the shaft and within the recesses of the key-ways of the said gears and shaft for establishing a driving relation between the two, and means for shifting the said key wheel in progressive engagement with the driving gears.



1,390,263. MANIFOLDING DEVICE. JAMES W. ANDERSON, New York, N. Y. Filed Oct. 7, 1912, Serial No. 724,277. Renewed Feb. 3, 1921. Serial No. 442,326. 14 Claims. (Cl. 282—3.)

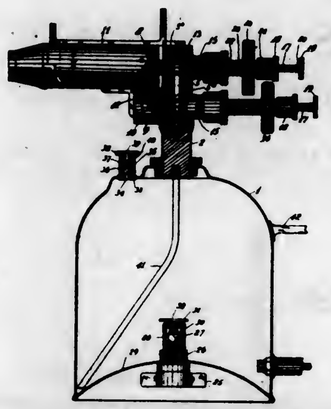


1. In a manifolding device, in combination, a support, a pile of tags of substantial material carried by said support, and a stack of original and duplicate manifolding leaves carried by said support, said tags and leaves being so arranged on said support as to permit the superposition of an original leaf, a duplicate leaf, and a tag on one another.

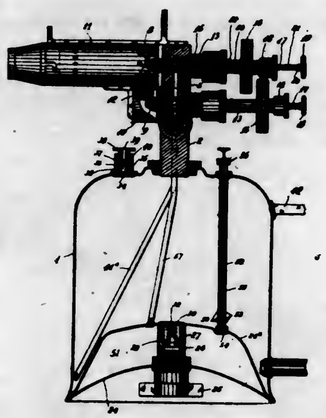
1,390,264. BURNER-CLEANING DEVICE FOR BLOW-TORCHES. CHARLES H. ALLEN and JAMES B. ANDERSON, Pittsburgh, Pa. Filed Aug. 5, 1920. Serial No. 401,347. 2 Claims. (Cl. 158—120.)

1. In a device of the character described, a burner, a valve for controlling the supply of fuel to the burner, said valve being of tubular construction, a tubular mem-

ber slidable in the valve, a disk having a stem detachably secured in the outer end of said tubular member and a thin flexible cleaning wire secured in said stem and disposed in alinement with the fuel opening of the burner so as to be insertible therethrough by slidably reciprocating said tubular member.



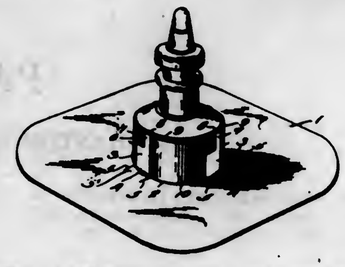
1,390,265. BLOWTORCH. CHARLES H. ALLEN and JAMES B. ANDERSON, Pittsburgh, Pa. Filed Aug. 5, 1920. Serial No. 401,348. 5 Claims. (Cl. 158—33.)



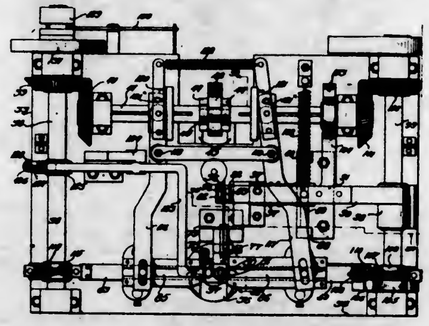
1. In a torch of the character described, a fuel tank provided with a double bottom; the fuel contained in said tank being in a liquid state in the upper chamber of said tank and in a gaseous state in the lower chamber comprised within said double bottom.

1,390,266. BOTTLE-HOLDER. LOTTIE L. ARMSTRONG, Washington, D. C. Filed Sept. 21, 1920. Serial No. 411,741. 6 Claims. (Cl. 248—65.)

1. A bottle holder comprising a blank having a bottle receiving opening stamped therein and integral arms adjacent said opening, said arms being arranged at substantially a right angle to each other before being bent upwardly and sufficiently long to extend from their bases beyond the center of the opening.



1,390,267. MACHINE FOR MAKING AND APPLYING TUFTS. CLARENCE F. ARNOLD, Philadelphia, Pa., assignor to H. F. Walliser Company, Philadelphia, Pa. Filed Nov. 30, 1920. Serial No. 427,366. 15 Claims. (Cl. 28—13.)



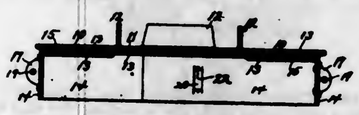
1. A machine of the character described including a head having prongs forming a notch; means for feeding tuft threads into said notch; and means for feeding a wire to embrace said tuft threads and to be bent by the inner wall of said notch around said tuft threads, one of said prongs having its outer surface concaved to permit finger room to allow a loop to be easily slipped over said prong so as to be bound by said wire to the tuft threads; substantially as described.

1,390,268. COMBINED FRUIT WASHER AND SCALDER. WILLIAM AUSTON BECKETT, Kingsville, Ontario, Canada. Filed Dec. 16, 1920. Serial No. 431,106. 3 Claims. (Cl. 146—14.)



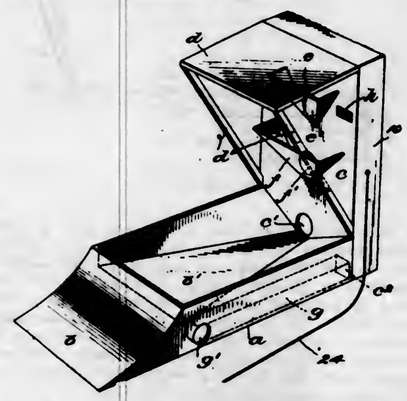
1. An apparatus of the class described comprising a suitable receptacle adapted to receive and to discharge water; pulleys journaled respectively one at the intake end of said receptacle and the other at the discharge end thereof; a conveyer-belt mounted on said pulleys and adapted to be moved thereby; a washing chamber located at the intake end of said receptacle and provided with a controlled outlet; a shaft mounted within said receptacle and immediately below said washing chamber; blade-provided wheels mounted on said shaft, and spaced apart, the angular disposition of the blades being such that as said wheels are rotated opposing gyratory currents will be set-up within the water, and currents induced longitudinally of the receptacle, for the purpose set forth; an open sorting chamber disposed to receive the fruit as it passes from said washing chamber, and a scalding chamber through which said conveyer-belt passes in order to convey the washed fruit into and through said scalding chamber.

1,390,269. CHIMNEY-TOP. WALTER W. BICKEL and HALLEY E. BROWN, Des Moines, Iowa. Filed May 17, 1920. Serial No. 381,932. 5 Claims. (Cl. 72—88.)



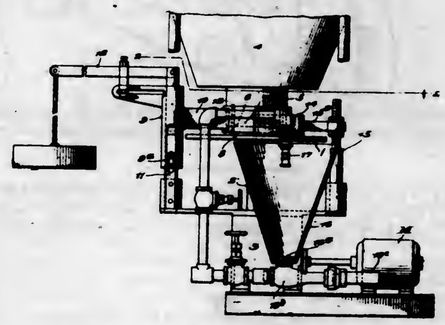
5. A chimney top comprising a plate having flanges and embracing members adjustably engaging said flanges, said members being formed with walls overlapping at their ends, in combination with connecting means extending across the overlapping ends of the walls and adjustably connecting the same.

1,390,270. GAME APPARATUS. WILMUTH E. BLACKBURN, Summit, N. J. Filed Mar. 13, 1920. Serial No. 365,559. 11 Claims. (Cl. 235—98.)



1. In game apparatus wherein a target is provided with a plurality of openings for the passage of delivered elements, with the openings having different scoring values, means for indicating the scores of delivered elements with the scores of a succession of deliveries indicated by their accumulated values, said means including an indication-carrier movable relative to an exposure opening in one direction during the delivery period and in the opposite direction during the re-setting period, a movable device for each of said scoring openings, and adapted to become active in the movement of the carrier during the delivery period, each device being positioned in the path of travel of an element passing through the associated opening with the device movable by and in the presence of the element, means for operatively connecting one of said devices with the carrier to advance the latter, the length of carrier movement being dependent upon the extent of device movement, means made operative by the movement of a second device for moving the first device to an extent different from that provided in the normal movement of such first device, said means having the characteristics of a lost motion formation with respect to one of said device, and means for retaining the carrier in its advanced position during such delivery period.

1,390,271. FEEDING DEVICE FOR DRY CHEMICALS. LEWIS M. BOOTH, Plainfield, N. J. Filed Aug. 7, 1920. Serial No. 401,957. 4 Claims. (Cl. 221—96.)



1. A device for feeding dry chemicals including a rotary measuring surface, a source of powdered chemical supply having a discharge orifice located at a predetermined distance above the said surface, and an adjustable element for varying the outlet for the material to the said rotating surface.

1,390,272. PUSH-ROD. MEREDITH D. BRADY, Indiana, Pa., assignor to M. Edith Stevings, Indiana, Pa. Filed May 14, 1920. Serial No. 381,609. 2 Claims. (Cl. 123—90.)



1. A push rod comprising a hollow cylindrical body carrying a roller at its lower end, a plug threaded within the upper end of the body and having a threaded hole, a coil spring within the body and connected with said plug whereby to hold the same against casual movement, and a screw threaded through said hole and having a head adapted to engage a valve stem to be operated, the other end of the spring being connected with said screw.

1,390,273. RECORDING-GAGE. RICHARD P. BROWN and FRITZ WAGNER, Philadelphia, Pa., assignors to The Brown Instrument Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Dec. 18, 1919. Serial No. 345,807. 10 Claims. (Cl. 73—109.)

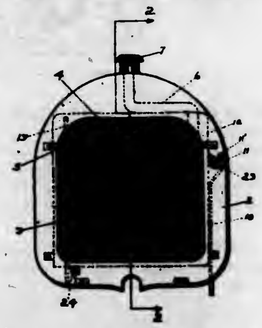
1. In an instrument of the character stated, the combination of a movable element having a part arranged in operative relation to a scale or chart, a rotatable staff

for supporting and turning said movable element, a pressure responsive device and means rotatable with and



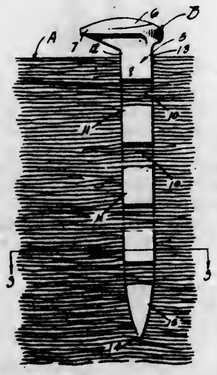
slidable axially of said staff for varying the working length of said responsive device for purposes of calibration.

1,390,274. RADIATOR FOR MOTOR-VEHICLES. CHARLES W. E. CLARKE, Newton, Mass. Filed Aug. 21, 1918. Serial No. 250,795. 8 Claims. (Cl. 257—125.)



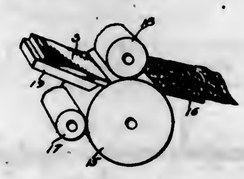
1. A radiator for a motor vehicle, said radiator having an overflow leading from an intermediate point in the radiator serving to limit the height to which the radiator can be filled with water, whereby the part of the radiator above said point will serve as a condenser for the vapor rising from the body of water in the radiator, and a trap in said overflow.

1,390,275. SPIKE. HENRY A. CORNEL, Cochrane, Ontario, Canada. Filed Apr. 14, 1920. Serial No. 373,946. 3 Claims. (Cl. 85—21.)



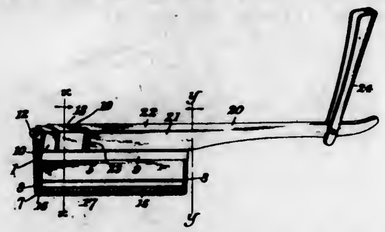
1. A rail spike comprising a polygonal shank, a head therefor projecting beyond a side of said shank to overlie the foot of a rail, said shank provided with flat indentations therein on the sides parallel with the longitudinal axis of the projecting head, and extending the entire width of the sides, and a bulge upon said sides projecting beyond the plane of said sides.

1,390,276. MANUFACTURE OF MOISTUREPROOF CREPED PAPER. ANDREW E. CURRIER, Millis, Mass., assignor to Safepack Mills, Boston, Mass., a Corporation of Massachusetts. Filed July 17, 1919. Serial No. 311,437. 5 Claims. (Cl. 92—69.)



1. The combination with paper craping apparatus comprising a moistening tank and a craping roll and doctor, of means for applying waterproofing substance to the paper consisting in a mounting for a wax block constructed and arranged to cause continuous contact of the wax block with the paper on said roll just prior to the craping thereof.

1,390,277. SAFETY-RAZOR. WILLIAM JOSEPH DAVIDSON, New York, N. Y. Filed Feb. 26, 1919. Serial No. 279,270. 5 Claims. (Cl. 30—12.)



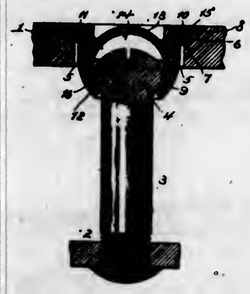
3. In a safety razor, the combination, with a guard member pivotally depending from the main body member which carries the blade and comprising end members respectively at opposite ends of the blade and side bars carried by said end members and operative as a stay against sides of the blade to limit the swinging movement of said guard member, of a roller member journaled in the lower ends of said respective pivotal end members of said swinging guard and extending longitudinally between the same beneath the cutting edge of the blade.

1,390,278. COMPUTING-MACHINE. GUSTAVE O. DEGENER, Hartford, Conn., assignor to Underwood Computing Machine Company, New York, N. Y., a Corporation of New York. Filed July 23, 1919. Serial No. 312,754. 6 Claims. (Cl. 235—60.)



1. In a computing machine, the combination with a traveling carriage, of a series of denominational jacks, and a selector-dog mounted for movement with said carriage past said jacks to engage the same *seriatim*, said dog having a jack-actuating cam face and a rearwardly-extending drop shoulder so shaped that, when the carriage is carried slightly past the proper letter-space position before being brought to rest, a slight return movement of the selected jack will be permitted, insufficient to destroy the denomination-selecting effect but sufficient to prevent any material interference with the jack in the return movement of the latter when the carriage is letter-spaced to cause the dog to actuate the next jack.

1,390,279. STAYBOLT STRUCTURE. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Jan. 20, 1920. Serial No. 352,694. 6 Claims. (Cl. 85—1.5.)



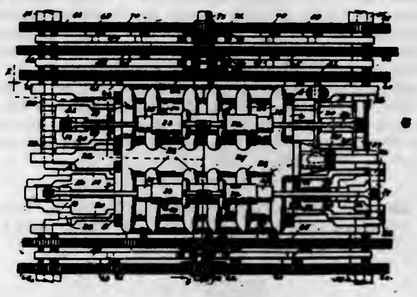
1. In a staybolt structure, the combination with a boiler sheet having an opening, and a staybolt having a head, of a bearing member having an exteriorly rounded inner end portion and a lateral flange at its outer end, said bearing member disposed coincident with the opening in the boiler sheet and having therein a seat for the head of the staybolt, a part at the outer end of the bearing member closing the latter over the head of the staybolt, a ring between said lateral flange and the boiler sheet, and means for securing said ring to the boiler sheet.

1,390,280. WATER-COOLER. GEORGE A. DOERR, Peoria, Ill. Filed Feb. 3, 1919. Serial No. 274,601. 8 Claims. (Cl. 261—113.)



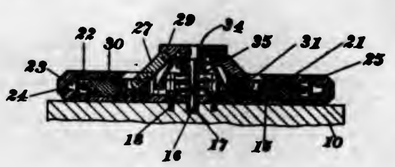
1. A radiator for internal combustion engines including in its construction a series of separate water-receiving hopper-like trays each having a bottom of foraminous material, the trays being spaced one above another, their bottoms depending well down within adjacent trays, a structure for supporting the trays, a receptacle for water below the series of trays, a pumping device connected with the receptacle, and a conduit connected with the pump terminating above the series of trays for discharging water into the same.

1,390,281. ENGINE. FRANCIS J. DOYLE, Chicago, Ill., assignor to N. V. Hayward. Filed Oct. 15, 1917. Serial No. 196,590. 3 Claims. (Cl. 123—50.)



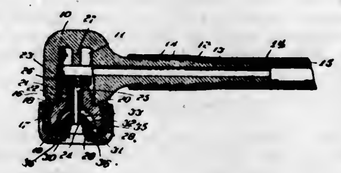
3. In an engine, the combination with a pair of stationary cylinders, of a pair of movable cylinders reciprocating therein and operably connected at both ends with crank shafts, a piston for each movable cylinder provided with piston rods extending through both ends of the cylinders and having driving connections with said crank shafts, actuating mechanism whereby each piston and its corresponding cylinder move simultaneously in opposite directions, inlet and outlet ports in the cylinder registering with inlet and outlet ducts, said outlet ducts communicating with a common exhaust chamber, and means for feeding fresh fuel to the cylinders.

1,390,282. BARREL-HOOP MACHINE. ALBERT N. EATON, Omaha, Nebr. Filed Aug. 17, 1920. Serial No. 404,093. 4 Claims. (Cl. 153—35.)



3. A machine as described comprising an outer die ring, a base plate lying within the ring, radially-reciprocating die blocks on the plate to coöperate with the ring, complementary means between the plate and blocks to guide the movements of the latter, an anvil initially held in an upper position, connections between the anvil and die blocks, a weight plate resting on the die blocks, and means to guide the movement of the anvil.

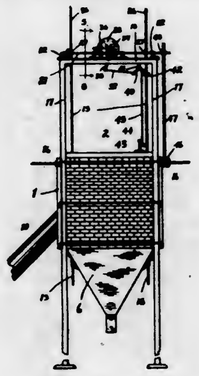
1,390,283. AUTOMATIC HOSE-COUPLING. ERICH EDELMANN, Chicago, Ill. Filed Aug. 19, 1919. Serial No. 318,565. 3 Claims. (Cl. 284—19.)



1. A hose coupling of the class described comprising a chambered casing member open at the bottom and provided

with a tubular nipple, a bushing member tightly fitted into the bottom of said casing and having a frusto-conical portion projecting upwardly to form a valve seat, a valve adapted to bear on the top of said seat, a hollow stem for said valve, a perforated cap adapted to engage one of said members, and a resilient washer interposed between said bushing and said cap, said valve stem projecting through the conical portion of said bushing and into the perforation in said washer and having a port through one side underneath the valve whereby said port will be uncovered when the valve is raised by the upward thrust of the tire nipple into the perforation in said washer, thereby establishing communication between the chamber in said casing and the tire nipple.

1,390,284. DUST-SEPARATOR. CHARLES H. FELTON, Michigan City, Ind. Filed Aug. 11, 1919. Serial No. 316,700. 5 Claims. (Cl. 183—44.)



1. A dust collector comprising a rectangular chamber having a porous wall, a frame within the chamber, a brush secured to the frame adapted to remove dust adhering to the surface of the wall, a pair of rack bars connected to the two ends of the frame, a pair of pinions engaging the rack bars for reciprocating the frame and a shaft on which both of said pinions are mounted.

1,390,285. BUMPER FOR AUTOMOBILES. FRANK GAHM, Streator, Ill. Filed June 16, 1921. Serial No. 478,034. 10 Claims. (Cl. 293—55.)



9. A vehicle bumper comprising, in combination, a pair of spring bars arranged one in advance of the other and spaced apart intermediate of their ends and having their end portions in sliding contact and tied together, the bars being vertically bowed at their middle portions, the bow of one being upward and of the other downward, and means for securing the bars to a vehicle.

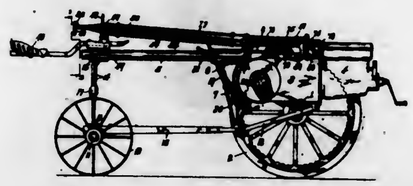
1,390,286. CARRYING DRUM OR REEL. WILLIAM F. GARLAND, New York, N. Y. Original application filed Dec. 31, 1912, Serial No. 739,463. Divided and this application filed Dec. 16, 1918. Serial No. 266,866. 5 Claims. (Cl. 242—110.)

1. A carrier drum for supporting photographic films during development provided with one or more hinged longitudinal flanges, and means for turning the said



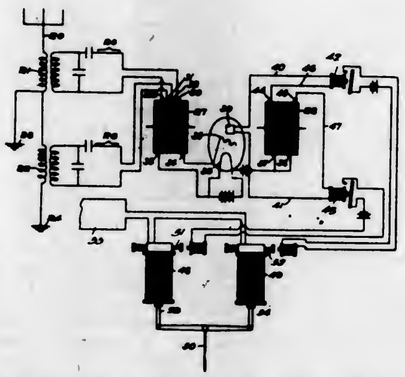
flanges upon their hinges so as to press outwardly against a film wound upon the drum.

1,390,287. TRACTOR CONTROL. FRANK H. GERDEMAN, Findlay, Ohio. Filed Jan. 17, 1920. Serial No. 352,145. 26 Claims. (Cl. 180—12.)



1. In a tractor, a steering mechanism having a clutch member shiftable in one direction or another from neutral position to effect an operation of the mechanism to turn the truck in one direction or another, a rotatable control having a rocking cam wing, and means connecting said cam wing and clutch member to impart predetermined shifting movements to the latter when the wing is rocked in one direction or the other.

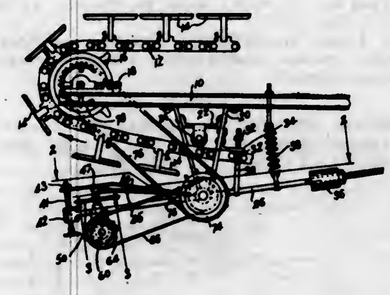
1,390,288. SYSTEM FOR CONTROLLING MOVING BODIES BY RADIO ENERGY. JOHN HAYS HAMMOND, Jr., Gloucester, Mass. Filed July 24, 1913, Serial No. 780,887. Renewed Jan. 24, 1921. Serial No. 439,688. 18 Claims. (Cl. 250—2.)



1. A receiving station having a plurality of circuits respectively responding to different wave frequencies, a

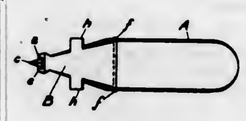
detector, means intermittently and automatically to connect said detector to any one of said receiving circuits, a plurality of subsidiary mechanisms, and means intermittently and automatically to connect said detector to any one of said subsidiary mechanisms.

1,390,289. BEET-TOPPING DEVICE. GEORGE B. HAYES and WALTER A. HAYES, Denver, Colo. Filed Jan. 22, 1919. Serial No. 272,452. 11 Claims. (Cl. 146—11.)



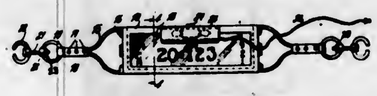
1. In a beet topping device, a support, a cutter frame mounted thereon, a cutter on the frame, beet guiding means coöperating with the cutter and comprising a spring plate and separable guiding fingers, and means to operate the cutter.

1,390,290. LETTERING-PEN ATTACHMENT. EARLE GRAY HENRY, Newberg, Oreg. Filed Feb. 10, 1919. Serial No. 276,002. 5 Claims. (Cl. 120—114.)



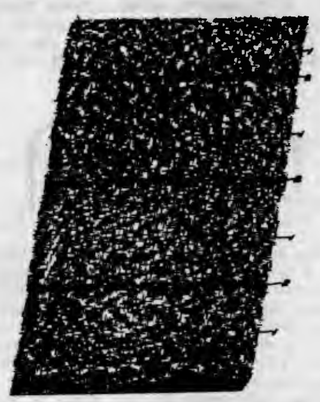
1. In combination with a pen having flexible nibs, of a lid having a bifurcated end, and pivotally mounted in said pen.

1,390,291. LICENSE-TAG HOLDER AND MEANS TO ILLUMINATE SAME. AMOS D. HILL, Lansing, Mich. Filed Mar. 30, 1921. Serial No. 457,126. 2 Claims. (Cl. 40—131.)



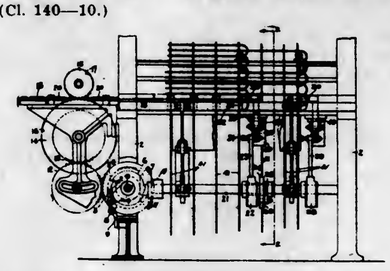
2. A license tag holder comprising a holder for the license tag, a reflector projected outwardly from the holder adjacent the upper edge thereof, a lamp socket on the under side of the reflector and provided with radially disposed light globes, one of which projects above the reflector to provide a tail light, and an electrical connecting member connected at one end to the said lamp socket and carrying a plug at its other end for connection to a suitable source of supply.

1,390,292. FABRIC FOR LININGS AND OTHER USES. HAROLD I. HUBY, Saylesville, R. I., assignor, by mesne assignments, to Sayles Finishing Plants, Inc., Saylesville, R. I., a Corporation of Rhode Island. Filed Mar. 15, 1919, Serial No. 282,934. Renewed July 7, 1921. Serial No. 483,087. 4 Claims. (Cl. 8—20.)



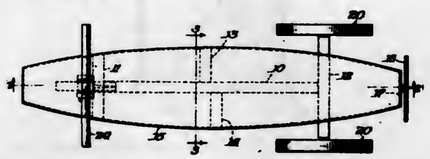
4. A fabric of uniform original texture, which has been made permanently stiff except at predetermined folding or cutting lines.

1,390,293. WIRE-FENCE MACHINE. AUGUST G. JOHNSON, Monessen, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Oct. 24, 1918. Serial No. 259,572. 9 Claims. (Cl. 140—10.)



1. In a wire fence machine the combination with a suitable frame, of means for feeding the stay-wires transversely of the strand-wires, said stay-wires being fed the full height of said fence and to a distance less than the full height, alternately, means for arching the upper end of each of said stay-wires toward an adjacent stay-wire, and means for securing said stay-wires to said strand-wires.

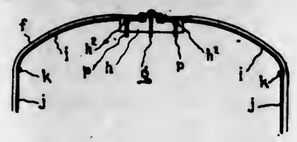
1,390,294. VELOCIPEDE. JOSEPH F. JONES, La Grange, Ill. Filed Oct. 1, 1917. Serial No. 194,111. 7 Claims. (Cl. 208—165.)



1. In a velocipede, the combination with a centrally-disposed supporting member, of a plurality of bracing exten-

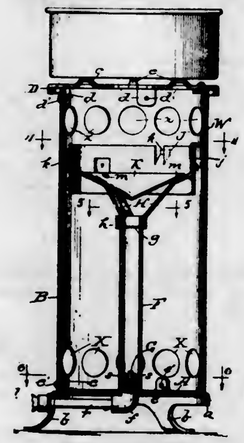
sions arranged at opposite faces thereof and spaced at intervals throughout the length of the supporting member, and a sheathing surrounding said member and braced with respect thereto by said extensions.

1,390,295. AUTOMOBILE-HOOD. PETER KERN, Montreal, Quebec, Canada, assignor of one-half to John R. Booth, Jr., Ottawa, Ontario, Canada. Filed Apr. 23, 1920. Serial No. 376,079. 1 Claim. (Cl. 180—69.)



In a motor vehicle the combination with the body thereof having a flange and a radiator having a flange; of a T-bar extending between said body and radiator and adapted to connect the same together, a pair of brackets of angular cross-section located one at each end of said bar and positioned with one flange overlapping the flanges on the radiator and body respectively and with the other flange extending downwardly, means permanently fastening the flange overlapping the body flange to the latter and means detachably fastening the overlapping flange of the other bracket to the radiator flange, a pair of hood sections located on opposite sides of said bar with their adjacent edges extending beneath the horizontally disposed portions of the latter, means for reinforcing said edges and for hingedly mounting the hood sections in said brackets said last mentioned means consisting of a pair of angle-irons located one on each side of said T-bar and having trunnions at their opposite ends journaled in the downwardly extending flanges of said brackets each angle-iron in closed position being disposed with one flange secured to one of the hood sections and extending beneath the top of the T-bar and with the other flange perpendicular to said hood section.

1,390,296. GAS-HEATER. CHARLES A. KIRKWOOD, Chicago, Ill. Filed May 10, 1920. Serial No. 380,113. 5 Claims. (Cl. 126—85.)

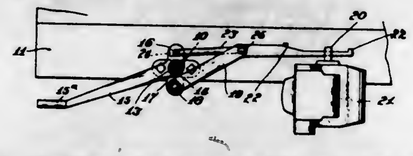


1. In a gas-heater the combination with a base-plate, a casing having perforations near the top and bottom edge supported thereby, and a suitable perforate element fitted over the top of said casing, of a vertically disposed tubular mixing-chamber having perforations in its lower end portion, a nozzle discharging into said lower end, a mixing-plate in the bore of said chamber, a disked spreader supported above said mixing-chamber the center of which is in axial alinement with the axis of said chamber, and an annulus separated from said casing and said spreader and surrounding the latter to direct the combustion gases onto said perforate element.

1,390,297. PAPER-FILLER AND PROCESS OF MAKING THE SAME. WILLIAM N. KOHLINS, Newark, N. J. Filed Feb. 27, 1919. Serial No. 279,645. 11 Claims. (Cl. 134—18.)

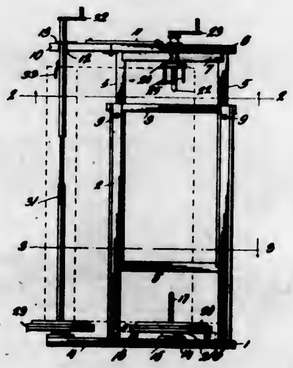
2. A paper filler comprising a mixture containing magnesium hydroxid, calcium sulfate, aluminum hydrate and calcium hydroxid.

1,390,298. UNCOUPLING MECHANISM. CLARENCE H. KRAKAU, Chicago, Ill. Filed Feb. 12, 1921. Serial No. 444,352. 4 Claims. (Cl. 213—59.)



1. Uncoupling mechanism comprising, in combination with the lock lifter or pin of a coupler, a lock lifter or pin controlling member pivotally mounted at one end on a car end-sill while the other end has a loose operative relation with the lock-lifter or coupler pin, an operating member pivotally mounted intermediate of its ends on the car end-sill, and means pivotally secured at one end to said last-mentioned member and at the other end to said first mentioned member whereby downward movement of the last mentioned member will cause a pulling action on said means and thereby move the first member upwardly about its pivot.

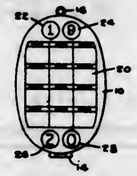
1,390,299. STAND FOR ROLLED GOODS. EDWARD A. LUZENBERG, San Antonio, Tex. Filed Nov. 6, 1919. Serial No. 336,113. 3 Claims. (Cl. 211—18.)



3. A stand for supporting a roll of goods comprising telescoping frames relatively adjustable longitudinally of each other to receive rolls of different length, means associated with the said frames for engaging and supporting a roll of goods within the frames, a roll rewind-shaft supported outwardly from the said frames on one side thereof and in parallel longitudinal relation thereto, whereby it serves as a guide in unwinding goods from the roll of the

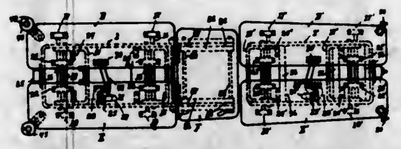
engaging and supporting means, crank means for rotating the rewind-shaft, and clip means carried by said shaft for connecting the roll of goods thereto whereby the latter may be rewound thereon when the shaft is rotated.

1,390,300. CALENDAR-FOB. HARRY A. MCELLIGOTT, Minneapolis, Minn. Filed Feb. 17, 1920. Serial No. 359,354. 1 Claim. (Cl. 63—23.)



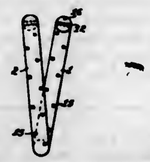
A calendar fob comprising in combination two oval-shaped recessed members adapted to fit together so as to form a shallow receptacle when closed, a hinge connecting said members at one end of the longitudinal axis of the fob, an eye member secured to one of said oval-shaped members at the end thereof opposite said hinge and by means of which the fob may be suspended, and an oval calendar card adapted to fit into said receptacle, said card containing the months of the year, and having the first two figures of the year above the months and the last two figures of the year below the months, one of said oval-shaped members being provided with a cut-out portion for viewing the months on said card, and being also provided with two holes above and two holes below said cut-out portion for viewing the figures of the year.

1,390,301. TREATMENT-TABLE. JOHN V. MCMANIS, Dayton, and FRANK KOENIGKRAMER, Cincinnati, Ohio; said Koenigkramer assignor to said McManis. Filed Nov. 23, 1916. Serial No. 133,073. 31 Claims. (Cl. 128—74.)



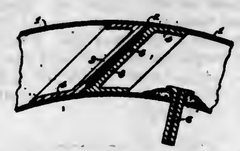
1. A treatment table comprising a vertically adjustable standard, a main top section frame adjustably mounted on said standard, an auxiliary top section frame adjustably mounted on said standard and top sections in pairs separated from each other longitudinally of the table mounted respectively upon said main top section frame and said auxiliary top section frame.

1,390,302. MANDREL. HARVEY F. MARANVILLE, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 11, 1919. Serial No. 344,130. 13 Claims. (Cl. 18—45.)



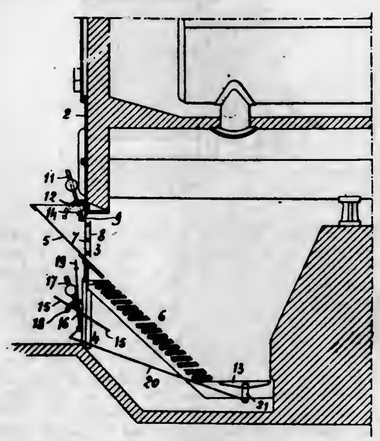
1. A tube or air bag mandrel for use in pneumatic tire manufacture comprising an annular body made in two segments which are pivoted together at one end to swing laterally.

1,390,303. AIR-BAG FOR PNEUMATIC-TIRE MANUFACTURE. HARVEY F. MARANVILLE, Akron, Ohio, assignor to The Miller Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Dec. 11, 1919. Serial No. 344,132. 9 Claims. (Cl. 18—45.)



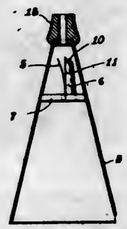
6. A sectional expansible air bag for pneumatic tire manufacture.

1,390,304. FURNACE FOR BURNING FACTORY REFUSE. ARTHUR MARGO, Nantes, France. Filed Mar. 31, 1919. Serial No. 286,612. 2 Claims. (Cl. 110—32.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A furnace for burning waste products, comprising in combination a stepped grate having flat bars, a feeding chute arranged outside the furnace, a pivoted vertically-movable shutter separating the feeding chute from the furnace, a counter-weighted lever to operate the movable shutter, a graduated sector enabling the shutter to be maintained so as to give any desired opening, a shield for preventing the flames of the furnace from entering the feed chute, and two lower pivoted shutters to regulate the entrance of air under the furnace.

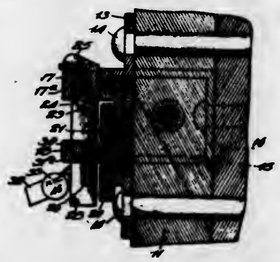
1,390,305. HORN-REED. ISIDORE MARKS, Boston, Mass. Filed Oct. 5, 1920. Serial No. 414,747. 4 Claims. (Cl. 116—137.)



1. A horn reed comprising a tongue having marginal extensions adjacent one end, a trough-shaped throat piece

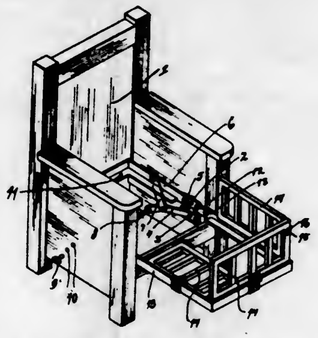
having a marginal outwardly extending flange, and a disk composed of compressible material having a substantially semi-circular opening with cuts extending in opposite directions therefrom, the opening between the walls of said cuts being less than the combined thickness of the marginal portions of the tongue and throat piece, the throat piece and tongue being mounted in the disk opening with the tongue at the open side of the throat piece and the flange of the throat piece and the marginal extensions of the tongue held in contact with each other in said cuts by frictional contact with the disk caused by compression of its material.

1,390,306. CAR-DOOR FASTENER. EDWARD A. MAYHEW, Chicago, Ill., assignor to Union Metal Products Company, Chicago, Ill., a Corporation of Illinois. Filed May 6, 1919. Serial No. 295,144. 2 Claims. (Cl. 292—284.)



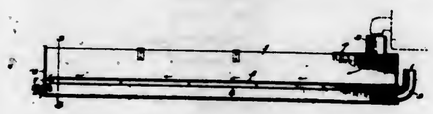
1. In a car door fastener, a bracket having a staple, a hasp adapted to be placed over said staple, a channel shaped locking pin adapted to be placed in said staple over said hasp, the ribs of said channel shaped locking pin projecting forwardly, each having a slot so that when the pin is placed in the staple the slots will be below the staple, said slots adapted to receive a sealing wire, said bracket having a perforated lug formed thereon over said staple to guide the locking pin, said lug having an internal web projecting between the ribs of said pin, the lower ends of said ribs being bent inwardly after the pin has been inserted in said guiding lug to engage said rib and prevent the pin from being completely withdrawn from said guiding lug.

1,390,307. COMBINATION DEVICE. HENRY MOLENDA, Ollie, Mont. Filed Mar. 18, 1921. Serial No. 453,330. 1 Claim. (Cl. 5—49.)



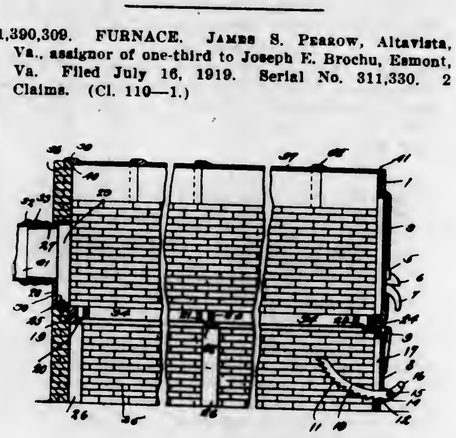
A device of the class described comprising a support, brackets attached to said support, substantially horizontal ears attached to said brackets, a U-shaped frame pivotally attached to said ears at one end of said ears, links pivotally attached to said brackets, a rod rigidly secured to the free ends of said links, supports pivotally attached at one end to said links and at the other end to said frame, a second U-shaped frame pivotally attached to said ears at their opposite ends, and side members pivotally mounted upon said second frame.

1,390,308. APPARATUS FOR PASTEURIZING WHEY. DAVID E. NOALLEBN, Abbotsford, Wis. Filed Aug. 23, 1920. Serial No. 405,225. 2 Claims. (Cl. 257—66.)



1. The herein described apparatus for pasteurising whey consisting of a receptacle having an outlet at one end adjacent its bottom, an imperforate false bottom arranged above the plane of said outlet and extending from the opposite end of the receptacle to within a short distance of the wall in which the outlet is formed, a deflector extending into the space between the bottoms of the receptacle, above the outlet and in the path of whey flowing through the passage between the false bottom and the end wall in which the outlet is formed, and means for supplying a heating medium to the space between the bottoms of the receptacle.

1,390,309. FURNACE. JAMES S. PEAROW, Altavista, Va., assignor of one-third to Joseph E. Brochu, Esmont, Va. Filed July 16, 1919. Serial No. 311,330. 2 Claims. (Cl. 110—1.)

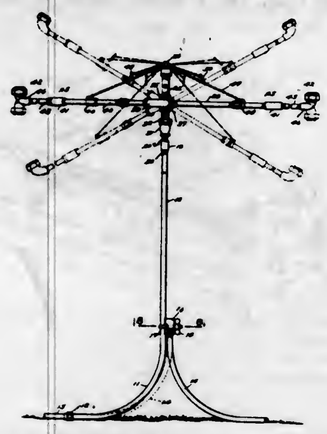


2. A furnace comprising a front wall; a casing including a rear end wall and side walls; a crown extended between the front wall and the rear end wall and supported on the side walls; a grate-carrying frame secured at its forward end to the front wall and provided at its rear end with an outstanding lip mounted in the rear end wall; a plate provided with a thimble, and including a circumferential rim, the rim being mounted in the rear end wall and being supported on the lip; and means for securing the rim to the lip.

1,390,310. SPRAYER. JAMES T. PLUMER, Detroit, Mich. Filed Dec. 30, 1919. Serial No. 348,304. 10 Claims. (Cl. 299—69.)

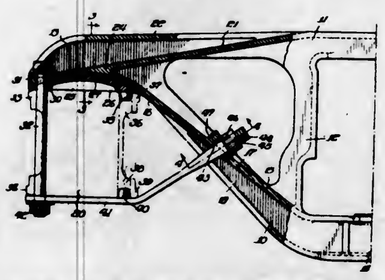
1. In a sprayer, a revolubly mounted laterally disposed sprayer element, a sprayer head on said element remote from the axis of revolution thereof, and a separate cap on said head presenting at one side thereof a series of jet

orifices at varying angles to the longitudinal axis of said element; said head being turnable on said element to



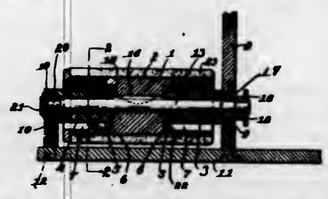
permit of the cap being inverted, and said cap being turnable on the head to dispose said orifices at the trailing side of the head whether the head be inverted or not.

1,390,311. TRUCK-SIDE-FRAME ARRANGEMENT. WILLIAM S. TROWBRIDGE, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 8, 1920. Serial No. 372,232. 11 Claims. (Cl. 105—205.)



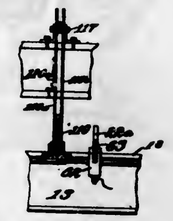
1. A truck side frame including integrally-formed tension and compression members having webs which extend diagonally with respect to the length of said respective tension and compression members and are joined to each other at the journal box receiving portion.

1,390,312. ROLLER CONSTRUCTION. DOUGLAS TURNER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Missouri. Filed July 26, 1919. Serial No. 313,658. 3 Claims. (Cl. 64—17.)



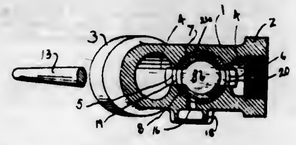
1. In a measuring roller construction for a fabric measuring and cost computing machine, the combination of a substantially cylindrical shell having a pocket extending into each end of the shell and having a transverse head between the pockets, a shaft received in the head and connected thereto so as to be rotated by the roller when it rotates, a fixed arbor extending axially into each end of the shell, completely covering the shaft within the pocket and in the vicinity of the roller, said head having counterbores fitting to and receiving the ends of the arbors and coöperating with the arbors to exclude lint from contact with the shaft.

1,390,313. LEATHER-MEASURING MACHINE. DOUGLAS TURNER, St. Louis, Mo., assignor to The Hosch Mechanisms Corporation, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 7, 1920. Serial No. 356,827. 23 Claims. (Cl. 33—124.)



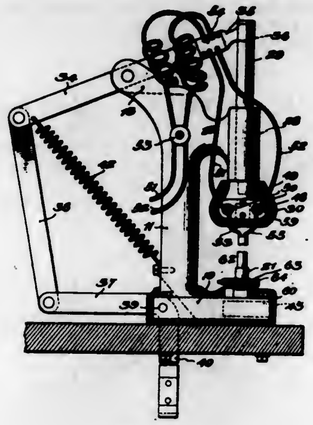
1. In a machine of the kind described, the combination of a measuring wheel adapted to roll upon the surface of the article being measured as it passes through the machine, an indicator actuated thereby, a guide roller coöperating with the measuring wheel, and means for giving the guide roller a limited circumferential movement while the article being measured is touching the roller and wheel, to change the relative position of the guide roller with respect to the measuring wheel and produce a correcting movement in the indicator to compensate for the thickness of the article measured.

1,390,314. ANGLE-COCK. WILLIAM F. ULLMAN and WILLIAM C. HILLSINGER, Syracuse, N. Y. Filed Feb. 17, 1920. Serial No. 359,330. 3 Claims. (Cl. 251—110.)



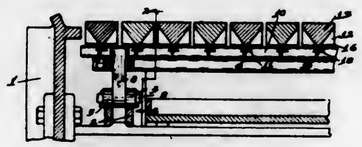
1. In an angle cock for train lines, including the usual casing and handle, a plug having the usual diametrically opposed ports therethrough, connecting with a central chamber, there being a vertically positioned angular slot through the wall of said plug, having its upper end inclined away from the hose side of said angle cock, when the valve is in full open position, and atmospheric ports passing through the opposite side of said casing to that of the inclined slot of said plug, said atmospheric ports having direct connection through the wall of said angle cock with the atmosphere, whereby, upon the turning of said plug, said angular slot opens communication between the hose side of the regular ports of said angle cock casing, co-incident with the opening of the other of the regular ports in said plug with said atmospheric port, whereby the angular formation of said slot affords a means of gradation of the flow of air from said hose side of said regular ports, through said plug to the atmosphere.

1,390,315. SOLDERING DEVICE FOR FUSE-SOCKETS. HENRY E. VAN NESS, Elmira, N. Y. Filed Jan. 28, 1919. Serial No. 272,761. 8 Claims. (Cl. 113—92.)



1. A machine of the class described including in combination, a frame having a base, an anvil set into said base comprsiing a base of high specific heat and an aluminum extension, heating means in said first base, a plunger mounted on the frame for movement to and from the anvil, a second anvil secured to said plunger formed to fit over said extension, and means to heat said second anvil.

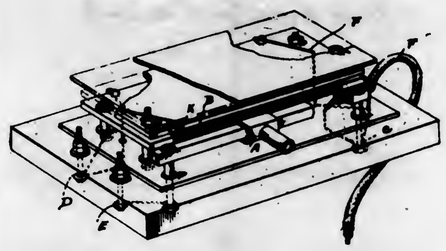
1,390,316. GRATE-BLOCK LOCK. HENRY VICK, Chicago, Ill. Filed Feb. 3, 1919. Serial No. 274,662. 1 Claim. (Cl. 110—40.)



The combination with grate members having dovetail slots therein, of grate blocks, dovetail tenons integrally formed on said blocks and engaging in said slots, a locking plate in each of said slots below the block tenon therein, and oppositely directed lugs integrally formed on the ends of each of said plates adapted to removably engage the ends of said block tenons and the sides of said grate members to hold said blocks locked in position, said lugs at either end of a plate adapted to be bent into the plane of the plate to permit independent removal of any one of said blocks from its respective grate member when necessary.

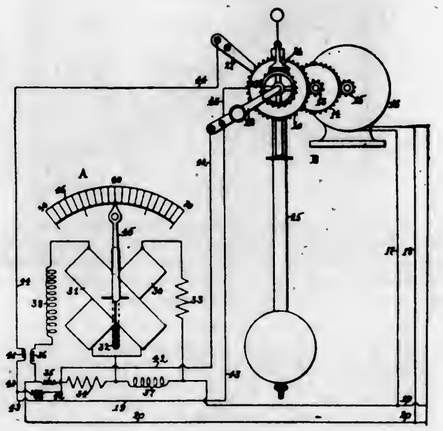
1,390,317. ELECTRICAL CURRENT-CONTROL DEVICE. CHARLES WAGNER, New York, N. Y. Filed Mar. 25, 1920. Serial No. 368,674. 2 Claims. (Cl. 219—62.)

1. In a device of the character described, in combination, a base, two insulated asbestos boards placed apart above said base and provided with a suitable cover, connected coils mounted upon said boards and connected with each other, and a suitable source of electrical



energy, outlet terminals, and a slidable switch interposed between one of said outlet terminals and one of said coils whereby the reduction in current may be regulated.

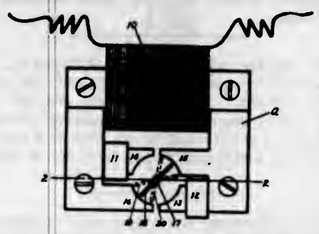
1,390,318. APPARATUS FOR REGULATING FREQUENCY. HENRY E. WARREN, Ashland, Mass., assignor to Warren Clock Company, Ashland, Mass., a Corporation of Maine. Filed Sept. 29, 1916. Serial No. 122,927. 9 Claims. (Cl. 172—245.)



1. In combination, a device driven synchronously with an alternating current, a device measuring the passage of time, one of said devices being movable with relation to the other, and an indicator responsive to the alternations of said current and to relative movement of said devices.

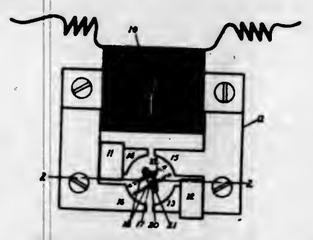
7. In an apparatus for showing frequency, means for obtaining instantaneous readings of the frequency, and means responsive to the value of the average frequency to modify the instantaneous reading.

1,390,319. SELF-STARTING SYNCHRONOUS MOTOR. HENRY E. WARREN, Ashland, Mass., assignor to Warren Clock Company, Ashland, Mass., a Corporation of Maine. Filed Feb. 2, 1918. Serial No. 215,028. 13 Claims. (Cl. 172—278.)



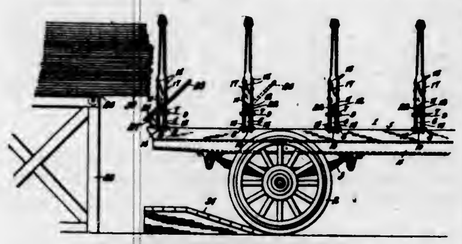
3. A self-starting alternating current synchronous motor comprising a stator provided with an alternating current exciting winding, and a polar rotor which has a natural frequency of oscillation resonant to the frequency of said alternating current.

1,390,320. SELF-STARTING SYNCHRONOUS MOTOR. HENRY E. WARREN, Ashland, Mass., assignor to Warren Clock Company, Ashland, Mass., a Corporation of Maine. Filed Feb. 2, 1918. Serial No. 215,029. 12 Claims. (Cl. 172—278.)



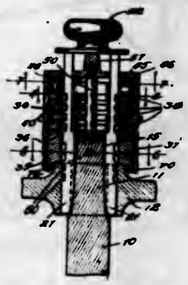
10. In a self-starting synchronous motor, means for producing a rotating magnetic field, and a rotor comprising a non-polar starting member and a synchronizing member arranged to be moved into active position within said field by centrifugal force.

1,390,321. LUMBER-TRUCK. GEORGE E. WATERS and GEORGE M. STEVENSON, Baltimore, Md. Filed Oct. 9, 1919. Serial No. 329,489. 11 Claims. (Cl. 214—84.)



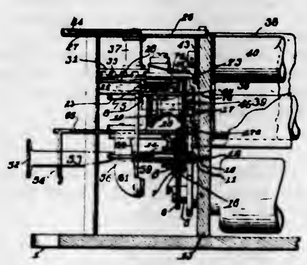
1. Means for loading lumber for transportation, comprising an elevated platform for receiving a pile of lumber, a lumber receiving truck with a roller bed and means for actuating the rollers to propel the lumber from the platform to the truck, and means for causing the truck to rise under and engage the assembled pile of lumber for movement of the latter by the rollers onto the roller bed of the truck.

1,390,322. STEERING DEVICE. PETER WAYDA, Aurora, Ill., assignor to Leopold Moss, Chicago, Ill. Filed June 27, 1917. Serial No. 177,198. 8 Claims. (Cl. 70—129.)



1. In a steering device, the combination of a steering post and a steering wheel on the end of the post with a threaded end of the post projecting above the wheel, a keyway between the hub of the wheel and the steering post, a lock adapted for engagement with the threaded projecting end of the steering post, means to fix the lock in place, and a sliding bolt in the lock adapted to enter the keyway and to be withdrawn therefrom whereby the wheel may be fixed against rotation on the end of the steering post or may be released therefrom.

1,390,323. ZERO-SETTING MECHANISM FOR MEASURING-MACHINES. JOHN L. WHEELER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation. Filed July 14, 1919. Serial No. 310,753. 9 Claims. (Cl. 235—144.)

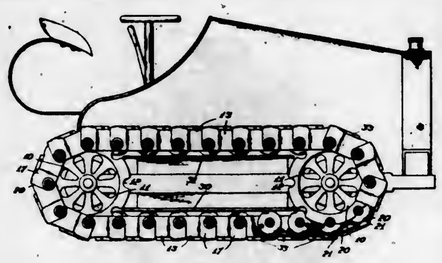


1. In a zero setting mechanism for cloth measuring machines, the combination of a clutch, means for closing said clutch, indicating mechanism driven through said clutch, a hand-actuated member for opening said clutch, means for returning the indicating mechanism to the zero position after the clutch is opened, and automatic means operating after release of the hand-actuated member for holding the clutch open until the indicating mechanism has completed its return movement to the zero position.

1,390,324. TRACTION MECHANISM. JAMES M. WORTH, Chicago, Ill. Filed Mar. 8, 1919. Serial No. 281,559. 9 Claims. (Cl. 305—10.)

1. Traction mechanism, comprising an endless tractor element composed of a plurality of shoes or units having vertically disposed sides, the sides at one end of each shoe being spaced farther apart than the sides at the opposite end of the shoe so as to receive the end of an adjacent shoe therebetween, means whereby the adjacent ends of

the shoes are pivotally connected together, lubricant-holding means rotatably mounted on said first mentioned



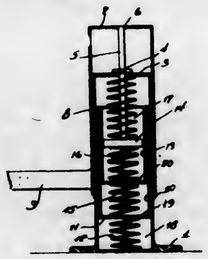
means, and a stationary track or run-way along which the rotatably mounted means is adapted to travel and the endless element held against flexing.

1,390,325. INTERTWISTED NET. TAKEJIRO YAMAMOTO, Tokyo, Japan. Filed May 29, 1919. Serial No. 300,569. 1 Claim. (Cl. 66—4.)



An interlocked netting joint formed from two intersecting cords or ropes, each cord comprising three strands, each strand of either cord being passed between two of the three pairs of strands of the other cord, no two strands of either cord passing between the same strands in the same direction, the two cords being subsequently twisted tightly to form a knotless joint.

1,390,326. AUTOMOBILE-SPRING. JOE E. BARRY, Granville, N. D. Filed Mar. 16, 1921. Serial No. 452,694. 4 Claims. (Cl. 267—69.)



1. An automobile spring comprising a plurality of telescoping cylinders, the cylinders having certain ends closed, coil springs interposed between the closed ends of the cylinders, a sliding outside cylinder provided with a supporting bar, a piston carried by the said outside cylinder and extending into the innermost sliding cylinder, and coil springs engageable with the said piston and with the ends of the said cylinders.

1,390,327. ACID-PROOF REFRACTORY COMPOSITION. HARRY P. BASSETT, Cynthiana, Ky. Filed Oct. 15, 1919. Serial No. 330,904. 10 Claims. (Cl. 106—9.)

3. The herein described acid proof refractory composition comprising silica, a metal comprised within the iron and aluminum groups, an alkali metal compound and a silicate binder.

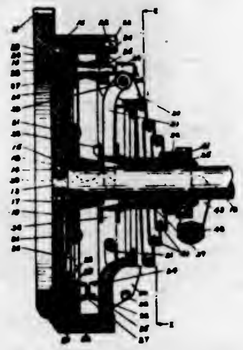
1,390,328. BASIC REFRACTORY MATERIAL. HARRY P. BASSETT, Cynthiana, Ky. Filed Oct. 15, 1919. Serial No. 330,906. 10 Claims. (Cl. 106—9.)

3. The herein described basic refractory material comprising double burned dolomite, an oxid of a metal of the iron group, an alkali metal compound, and a silicon compound.

1,390,329. PROCESS OF TREATING WASTE DENITRATION LIQUORS. HARRY P. BASSETT, Cynthiana, Ky. Filed June 18, 1920. Serial No. 390,016. 15 Claims. (Cl. 23—13.)

1. The process of recovering values from denitration liquors resulting from denitrating artificial silk with sodium hydrogen sulfid, comprising treating the same with an alkaline zinc compound, and separating the precipitate formed.

1,390,330. CLUTCH. EDWARD H. BELDEN, Toledo, Ohio, assignor, by mesne assignments, to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 30, 1917. Serial No. 204,634. 10 Claims. (Cl. 192—68.)



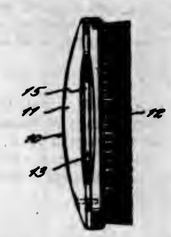
10. A device of the class described comprising a recessed driving member provided with a cover plate, a driven member within said driving member, a clutch member movable within said driving member, levers pivoted upon and extending through said cover plate and operatively connected with said clutch member and means for actuating said levers to effect movement of said clutch member.

1,390,331. CUE-TIP. NORMAN E. BENSINGER, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 341,038. 5 Claims. (Cl. 46—9.)



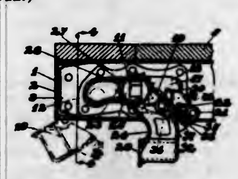
1. A method of making and of securing the tip to the billiard cue including the steps of roughening the face of the fiber washer, coating the non-glossy side of the leather with cream, and subsequently sizing it and cementing the roughened side of the fiber to the sized side of the cue tip.

1,390,332. COMBINED COMB AND BRUSH. ALBERT BETHINCOURT, New York, N. Y. Filed Apr. 30, 1921. Serial No. 465,683. 2 Claims. (Cl. 132—86.)



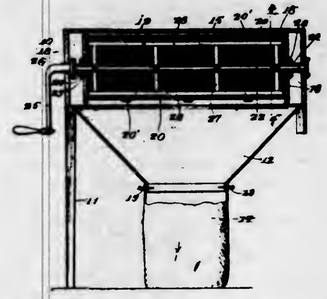
1. A cover for a toilet kit comprising, a body, flaps along the marginal edges of the body, a mirror secured to the inner side of the body and means for holding the flaps in position to support the mirror in upright position.

1,390,333. DOOR-OPERATING MECHANISM. MINOT C. BLEST, Bellevue, Pa., assignor to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 10, 1921. Serial No. 468,300. 5 Claims. (Cl. 105—312.)



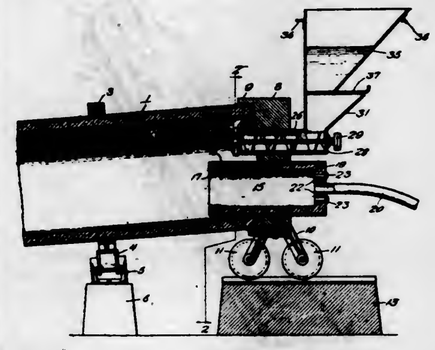
1. In a dump car, a sill, a discharge door operating shaft behind said sill and an operating lever mounted on said shaft having a socket portion depending below said sill, said socket portion being movable beyond the outside vertical lines of said sill.

1,390,334. FLOUR-SIFTER. JOHNSON BREWER, Rice, Tex. Filed Feb. 10, 1921. Serial No. 443,843. 1 Claim. (Cl. 83—39.)



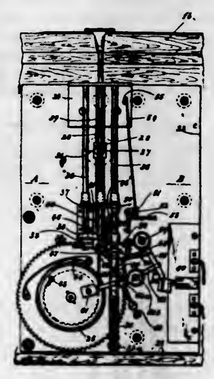
A flour cleaner including a housing having a lower discharge opening, a rotatable sifting drum mounted longitudinally in the housing, a longitudinal central and stationary shaft disposed through the center of the drum and supported at its ends in the ends of the housing, a plurality of arms secured to the shaft and extending vertically therefrom in a longitudinal series, a plurality of arms secured to the shaft and extending vertically downwardly therefrom in a longitudinal series, a longitudinal series of downwardly and outwardly inclining arms secured to the shaft and extending at opposite sides of the downwardly extending vertical arms, and scraper blades secured to the outer ends of the arms of each series and in parallel relation to the shaft.

1,390,335. PARALLEL-CURRENT CALCINING-KILN. HARRY E. BROOKBY, Evanston, Ill. Filed Mar. 10, 1919. Serial No. 281,772. 11 Claims. (Cl. 263—32.)



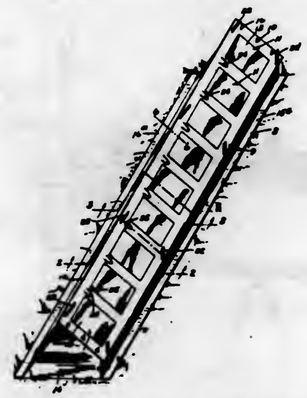
1. A common direction, parallel current, calcining kiln having a rotary shell, a combustion chamber projecting into the shell, and means for introducing the charge into the shell and passing it over a portion of the surface of the combustion chamber for raising the temperature of the charge and lowering the temperature of the gases of combustion before the two mingle in the shell.

1,390,336. TIME-SWITCH FOR PHOTOGRAPHIC PURPOSES. ALBERT BÜCHI, Klosters, Switzerland. Filed Dec. 29, 1919. Serial No. 348,108. 2 Claims. (Cl. 200—39.)



1. The combination, in the herein-described time switch for use with photographic printing boxes, of a clockwork and an electric contact making device mounted at the inside of the cover of the said box, means for winding up the clockwork, and means to actuate the said contact making device when the winding up mechanism is released, the said winding up mechanism comprising a slidable actuating spindle, a plate secured to one end of the spindle and having integral downwardly projecting arms, a second plate fitted over the spindle and at a certain distance from the first plate, a spring mounted between the two plates and tending to keep the same apart, means to guide and support the said spindle and the plates, and a flexible steel band of which one end is attached to the said arms and the other end fixed to the clockwork casing for winding up the clockwork-spring, all as and for the purpose set forth.

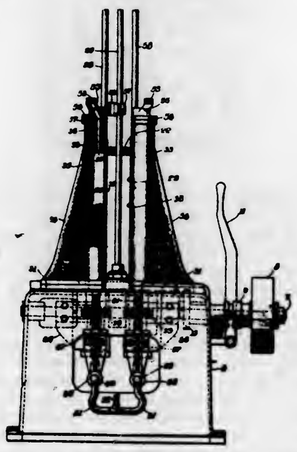
1,390,337. PLANTING-BOX. WILLIAM H. BUSSEY, Minneapolis, Minn. Filed Nov. 17, 1919. Serial No. 338,665. 10 Claims. (Cl. 47—27.)



1. A planting box having its body made from a sheet bent to form inclined roof and side portions, the inclined roof having windows therein, said body-forming sheet having a tuck at the extremity of its roof portion, and anchoring stakes passed through said tuck and adapted to be driven into the ground to anchor the box.

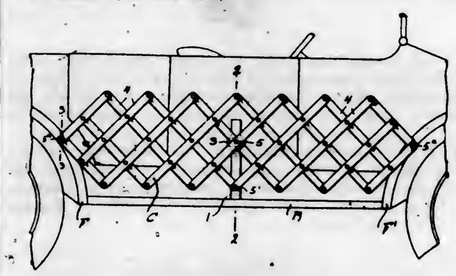
8. A planting box having its body made from a sheet bent to form inclined roof and side portions, the inclined roof having windows therein covered with a material that permits the passage of light into the box, the window-equipped roof forming portion of said sheet, at its upper and lower edges, having extended tucks, the said sheet, at all edges, having ground-engaging flaps, stakes passed through said tucks and ground-engaging flaps and adapted to be driven into the ground to anchor the box, the back-forming portion of said sheet being inclined in a direction reverse to the window-equipped roof-forming portion thereof, and the said back-forming portion having windows therein covered by a material permitting light to enter the box.

1,390,338. DRIER. WILLIAM CAMERON, Chicago, Ill. Filed Dec. 4, 1919. Serial No. 342,342. 16 Claims. (Cl. 34—11.)



5. In a drier, the combination of a hollow heating element having a screw threaded exterior, means for applying heat to the interior of said element, means for delivering can ends into operative relation to said element, means for maintaining said ends in contact with said element and means for revolving said element so as to feed the can ends longitudinally of the element and at the same time impart a rotary movement to said ends.

1,390,339. PARCEL-CARRIER. WILLIAM L. CAMPBELL and AUGUSTUS E. STRAUGHAN, McKinney, Tex., assignors of forty-nine one-hundredths to A. J. Commons, S. Weisman, J. A. Caldwell, and E. H. Winton, Collin county, Tex. Filed Mar. 1, 1919. Serial No. 280,151. 1 Claim. (Cl. 224—29.)



The combination with an automobile body provided with front and rear fenders and a running-board, of an upstanding post carried by said board at a point substantially midway between the fenders, a loop slidably engaged therewith, and a carrier comprising a plurality of bars pivotally secured to each other to form lazy tongs, the central pivotal member for the bars being secured to the loop, a second pivot member substantially in vertical alinement with the central pivot member being secured to the post, and means for detachably engaging the opposite end portions of the carrier with the fenders when the carrier is extended, said carrier when collapsed, being positioned in close relation to the post.

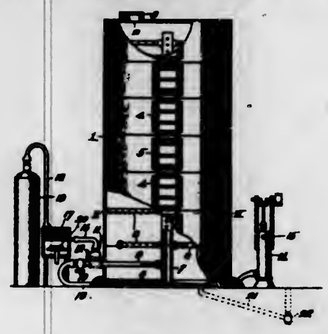
1,390,340. DEVICE FOR INDICATING THE LENGTH AND HANG OF COAT-SLEEVES. JOHN C. CARLSON, Chicago, Ill. Filed Sept. 18, 1920. Serial No. 411,213. 16 Claims. (Cl. 33—15.)



1. A device for indicating the length and hang of a coat sleeve embodying a scale for designating a point to be indicated upon the body of a coat, and means for attaching said scale to the arm of the person.

1,390,341. PROCESS FOR STORING AND CURING ENSILAGE. WILLIAM H. CUSHING, Topeka, Kans., assignor of one-third to Joseph H. Mercer and one-sixth to Paul J. McBride, Topeka, Kans. Filed Dec. 18, 1918. Serial No. 267,369. 3 Claims. (Cl. 99—11.)

1. The process of curing fresh vegetable matter, consisting in placing such matter in a substantially air-tight chamber and in discharging compressed air into the chamber and in effecting the removal from the chamber of



liquid produced by the drying of the vegetable matter by the action of the compressed air thereon.

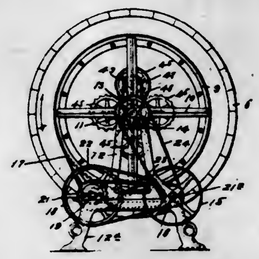
1,390,342. CATTLE-MARK. EUGÈNE DELAY, Geneva, Switzerland. Filed Oct. 14, 1920. Serial No. 416,905. 1 Claim. (Cl. 40—3.)



A cattle mark comprising a male part having a bowl portion and a plane rim, a pointed piercing bar having a plurality of circular grooves mounted in said male part, a hollow female part with a conical formed hood and having a convex inner portion extending toward said bowl of the male part and being formed to press the ear of an animal into said bowl portion in such a manner as to leave an air gap on either side of the ear adjacent the perforation, said female part having also an aperture through which said bar is adapted to be inserted, and a device within said female part for gripping and retaining said bar after its insertion through said aperture, said device comprising a plurality of disks, said disks being provided with teeth arranged in such manner that the teeth of one disk are displaced with regard to the teeth of any adjacent disk, said teeth being adapted to engage with a plurality of said circular grooves in the bar, and a protection plate on either side of said toothed disks, said toothed disks and said protection plates being mounted with provision for a certain play within said female part to permit the latter to be freely turnable around said disks and plates, said male and female parts and said disks and plates being adapted to render the said piercing bar inaccessible from the outside, substantially as described.

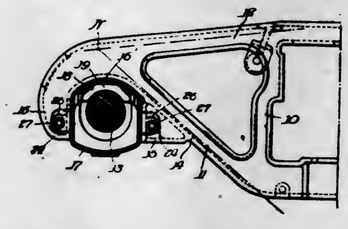
1,390,343. COMBINED CHURN AND BUTTER-WORKER. REUBEN B. DISBROW, Owatonna, Minn. Filed Oct. 30, 1920. Serial No. 420,662. 7 Claims. (Cl. 259—84.)

1. The combination with a drum arranged to rotate on an approximately horizontal axis, of diametrically opposite lifting flights within said drum, a group of four working rollers arranged in diametrically opposite pairs around the axis of said drum, and roller shafts extended through one drum head and combined with means for rotating one of said pairs of rollers in the same direction



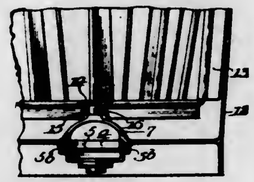
as the drum and the other pair of rollers in the opposite direction, one of said rollers being nearer to the axis of said drum than the other pair of rollers.

1,390,344. RAILWAY-CAR TRUCK. HARRY E. DOERR, St. Louis, Mo., assignor to Scullin Steel Co., St. Louis, Mo., a Corporation of Missouri. Filed Sept. 3, 1920. Serial No. 407,832. 5 Claims. (Cl. 105—220.)



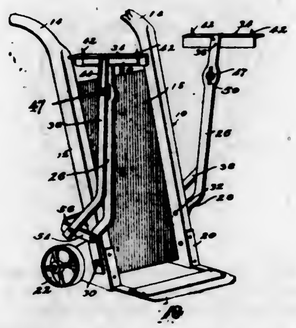
5. In a railway car truck, the combination of a side frame having pedestal jaws, a journal box received by said pedestal jaws and having a top crowned in a plurality of directions and coöperating with the side frame, the crowning in one direction permitting the journal box to have a transversely rocking movement with respect to the side frame for equalizing pressures on the journal brasses, and means whereby said journal box may guidedly move in a vertical direction within said truck side frame to permit the insertion of a shim between said truck side frame and journal box.

1,390,345. REMOVABLE REFUSE-CATCHER. WILLIAM H. DUNN, Chicago, Ill. Filed Mar. 19, 1919. Serial No. 283,600. 4 Claims. (Cl. 141—9.)



1. In a device of the class described, the combination of a ring adapted to be inserted into an orifice, said ring being closed by a perforated member, said ring and perforated member producing a receptacle into which material may be lodged, a member extending from said ring and said last mentioned member having means whereby another member may be held in pivotal relation thereto.

1,390,346. BAG-HOLDER FOR TRUCKS. ERNEST EUGENE DURKEE, Deer River, Minn. Filed Oct. 22, 1920. Serial No. 418,816. 5 Claims. (Cl. 83—26.)



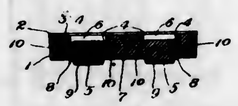
1. The combination with a support, of brackets arranged on opposite sides of and in advance of the support, cross heads arranged at the outer sides of said brackets and having teeth extended upwardly through the brackets, a U-shaped treadle having sides pivoted to the sides of said support and having a connecting and foot engaging portion at the rear side of the support adjacent the lower end of the same, and means connecting the sides of said U-shaped treadle and said cross head.

1,390,347. HOT-AIR REGISTER. JAMES LEE ELLISTON, Clinton, Mo. Filed Mar. 25, 1921. Serial No. 455,663. 2 Claims. (Cl. 98—49.)



1. A heat register for one-pipe furnaces comprising a reticulated body having a plurality of spaced parallel bars, said reticulated body being adapted to be arranged at the upper end of a conduit of a one-pipe furnace, and a plurality of angle bars having attaching means secured to the bars of said body and provided with upper flanges arranged in inclined position and terminating in the plane of the adjacent bars of the body, said angle bars also being provided with inclined flanges arranged at right angles to said first named flanges and constituting dust baffles, and a means for directing the heat between the upper flanges, said angle bars being arranged in spaced parallel relation.

1,390,348. RESILIENT HEEL. ELIAS J. EMERY, Lynn, Mass. Filed May 21, 1020. Serial No. 383,057. 3 Claims. (Cl. 36—35.)



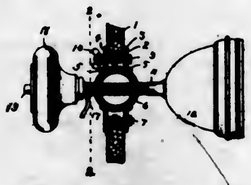
1. A resilient heel molded in one integral piece of a plastic substance, having tensile resilience, and having therein a partially separated body constituting a plug having ends normally displaced from coincidence with the tread and attachment surfaces of the heel respectively, and movable into line with the body of the heel, and connected to the body of the heel by an integral resilient bridge constituting a support adapted to stretch and resiliently return, to permit motion and return of the plug.

1,390,349. ARTIFICIAL GRAPE AND METHOD OF PRODUCING SAME. JAMES H. EMERY, New York, N. Y. Filed Feb. 5, 1921. Serial No. 442,603. 13 Claims. (Cl. 41—13.)



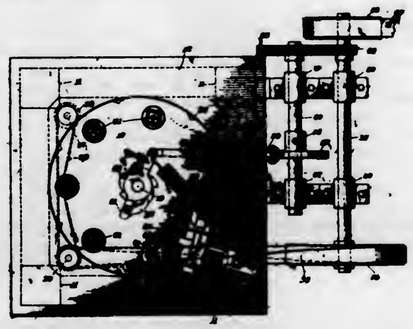
1. An artificial grape comprising a core of thermoplastic material and a coating of colored material covering said core.

1,390,350. SPOTLIGHT-SUPPORT. WILLIAM S. EVANS, Duluth, Minn. Filed Jan. 10, 1921. Serial No. 436,178. 2 Claims. (Cl. 240—7.)



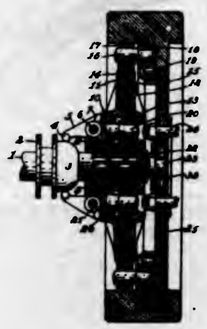
2. In combination a spot light of the character described mounted upon a spindle within a rotatable ball, an upright support having an opening therein in which the ball is mounted, two spaced clamping members surrounding the ball, attached to the support and forming a closure to either side of the opening therein, a separatey adjustable portion in one of said clamping members engaging the ball, and a handle on the spindle for adjusting the spot light.

1,390,351. AUTOMATIC NUT-APPLYING DEVICE. ALBERT FAESSEL, Chicago, Ill., assignor to Continental Bolt & Iron Works, Chicago, Ill., a Corporation of Illinois. Filed Jan. 31, 1920. Serial No. 355,433. 13 Claims. (Cl. 10—155.)



1. In an apparatus of the class described, including means for receiving individual nuts, means for spinning said receiving means at a point remote from the nut receiving position, means for moving said receiving means from receiving position to spinning position, and means for feeding the nuts.

1,390,352. ADJUSTING MEANS FOR FRICTION-CLUTCHES. THOMAS L. FAWICK, Chicago, Ill., assignor to Twin Disc Clutch Company, Racine, Wis., a Corporation of Wisconsin. Filed Mar. 4, 1918. Serial No. 220,147. 2 Claims. (Cl. 192—68.)



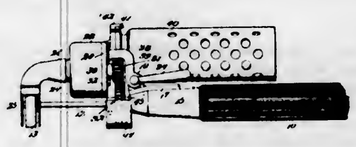
1. In a friction clutch, a rotatable driven element, a rotatable driving element including a friction-head slidably non-rotatably connected thereto, a friction-abutment fixed on said driven element adjacent one friction-face of said friction-head, a friction-element slidably non-rotatably mounted on said driven-element, movable into contact with the opposite face of said friction-head, and separate tension-producing means of different powers bearing against opposite parts of said friction-element.

1,390,353. ARTIFICIAL TOOTH. THOMAS FLINTOFF, Claremont, Perth, Western Australia, Australia. Filed Sept. 12, 1918. Serial No. 253,707. 3 Claims. (Cl. 32—9.)



1. The combination with an artificial tooth having a groove of dovetail cross section extending longitudinally therein and having an open end directed toward the nonbiting edge of the tooth, of a flat metal back adapted to be slid within the dovetail groove and on which the tooth is adjustable to regulate the bite, and studs rigid on the metal back extending outward from the groove, the length of the groove being greater than the measurement in the same direction of the metal back so that regulation of the bite can be effected by adjusting the tooth relatively to the back without the latter being caused to protrude through the open end or to contact with the closed end of the groove.

1,390,354. DENTAL APPARATUS. JULIUS FRIED, New York, N. Y. Filed Dec. 26, 1918. Serial No. 268,358. 7 Claims. (Cl. 51—273.)

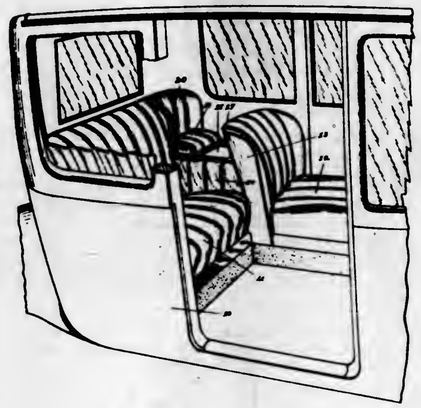


1. In combination with a dental hand piece, a sleeve to encircle the same, a lug formed on said sleeve, a second lug pivotally connected to the first, and a shield, blower casing and receptacle mounted on said second lug for movement relative to the hand piece.

1,390,355. SEPARATOR FOR STORAGE BATTERIES AND METHOD OF MAKING. DAVID FOSTER GOULD, Newark, N. J., assignor to General Lead Batteries Company, a Corporation of Delaware. Filed Aug. 24, 1916. Serial No. 116,594. 3 Claims. (Cl. 204—29.)

1. The process of preparing battery separators which consists in shaping wood containing no substance in sufficient quantity to injure the positive battery plate, into the form of a separator, increasing the fluid passages through the wood by the removal of gums, resins and other substances, not an integral part of the true wood fiber, by immersing in a solution of a sulfite and heating the solution to such temperature and for such time as produces the porosity desired, the wood of the finished separator containing a small quantity of gum, resin and other substances, not an integral part of the true wood fiber, relative to those naturally existing in the wood.

1,390,356. SEATING ARRANGEMENT FOR COUPÉS. ABUNDIUS GRAVEL, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 13, 1918. Serial No. 216,854. 5 Claims. (Cl. 296—64.)

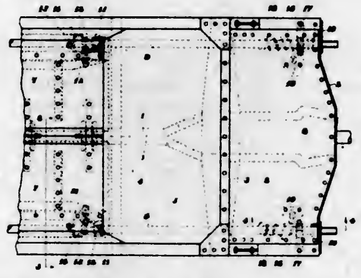


1. In a motor vehicle provided with a passenger's seat and a driver's seat advanced in front of said passenger's seat, the combination of a storage compartment formed in the rear of said driver's seat and to one side of the passenger's seat; a top wall closing the upper end of said storage compartment, and provided with an opening therein; a hinged cover closing said opening; a back formed in line with the rear end of said top wall; a cushion secured to the lower face of said cover and adapted to be disposed with its rear end in line with the lower edge of said back when said cover is fully open.

1,390,357. DISCHARGE-DOOR-OPERATING MECHANISM. HARRY E. KAUP, Bellevue, and RICHARD J. WILCOX, Carnegie, Pa., assignors to Pressed Steel Car Company, Pittsburgh, Pa., a Corporation of New Jersey. Filed May 16, 1921. Serial No. 469,807. 14 Claims. (Cl. 105—301.)

1. In a dump car, a discharge door, a bodily movable

shaft for operating said door, and means for moving said shaft bodily, said means comprising a flexible con-



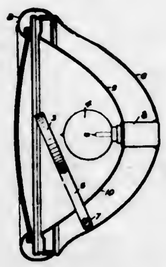
nection from said shaft to said door and a flexible connection from said shaft to a stationary part of said car.

1,390,358. OIL-GAGE. THOMAS J. KEHOE, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio. Filed May 23, 1917. Serial No. 170,472. 25 Claims. (Cl. 116—117.)



14. In a lubricating system, means forming an expansible oil chamber continuously open to one side of the system, and a valve in said chamber adapted to be opened to the opposite side of the system automatically at a predetermined point of expansion of said chamber.

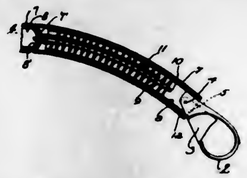
1,390,359. DIMMER. THOMAS J. KEHOE, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio. Filed May 23, 1917. Serial No. 170,473. 14 Claims. (Cl. 240—45.)



1. In a device of the class described, the combination of a reflector, a light source within said reflector, and a resilient spiral strip adapted to be extended over said light source to screen lateral rays therefrom.

1,390,360. BRACELET. CLIFFORD G. KING, Providence, R. I., assignor to himself and Arthur I. Clark, Cranston, R. I. Original application filed June 8, 1918, Serial No. 238,821. Divided and this application filed Apr. 8, 1919. Serial No. 288,460. 2 Claims. (Cl. 63—5.)

1. The combination with an expansible bracelet of a snap hook comprising a hollow body portion terminating in a hook and having a depression in one of the interior walls thereof, and a tongue inclosed within and pivoted



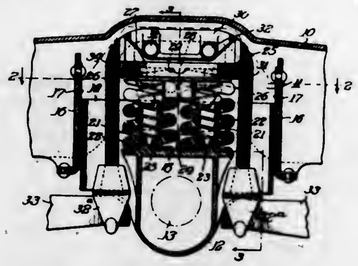
to said body portion and having an enlargement of one of the sides thereof arranged to coöperate with said depression in the interior wall of said body portion.

1,390,361. LATCH FOR BRACELETS AND THE LIKE. CLIFFORD G. KING, Providence, R. I., assignor to himself and Arthur I. Clark, Cranston, R. I. Original application filed June 8, 1918, Serial No. 238,821. Divided and this application filed Apr. 8, 1919. Serial No. 288,461. 3 Claims. (Cl. 63—5.)



1. An expansible bracelet comprising in combination a series of tubes, a series of shells each embracing a tube, a shell inclosing a latch, said shell being hingedly connected to one of two juxtaposed shells and a tube within said shell, said tube being hingedly connected to the other of said juxtaposed shells.

1,390,362. RAILWAY-CAR-TRUCK ARRANGEMENT. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 25, 1921. Serial No. 464,112. 4 Claims. (Cl. 105—195.)

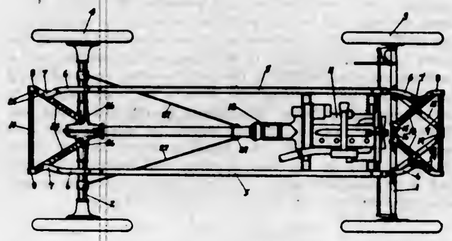


1. In a railway car truck, the combination of a journal box, springs mounted directly on top of said journal box, a spring cap bridging said springs, an equalizing beam, said cap and beam having a connection whereby one may be rotated on the other, and means operatively connected to said equalizing beam whereby loads may be transmitted to the latter and equalized with respect to said journal box.

1,390,363. SPRING SUSPENSION FOR VEHICLES. HARRY W. LINDSEY, Jr., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Oct. 9, 1919. Serial No. 329,419. 19 Claims. (Cl. 267—41.)

6. In a vehicle, the combination of a frame, front and rear axles, a pair of cantaliver springs converging rearwardly from the front end of the frame to the front axle, means for rigidly connecting the forward ends of

said springs to the front end of the frame, a second pair of cantaliver springs converging forwardly from the rear



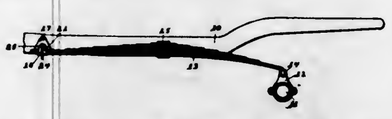
end of the frame to their connection with the rear axle, and means for rigidly securing the rear ends of said springs to said frame.

1,390,364. BEAM, GIRDER, OR THE LIKE. EMILIO LÖLING and MARIO BARONI, Milan, Italy. Filed Mar. 27, 1917. Serial No. 157,776. 1 Claim. (Cl. 72—110.)



A structural element more particularly adapted for use in a reinforced concrete structure, comprising a plurality of longitudinal beams arranged in horizontal and vertical rows, transverse bolt members arranged at right angles to each other and interposed alternately between the horizontal rows and between the vertical rows of beams and having their thickness designed so as to determine all the spaces between the beams, and bolt heads and nuts on the bolt members for engaging the beams and retaining same in spaced position and against the sides of the bolt members.

1,390,365. SPRING SUSPENSION FOR VEHICLES. CHARLES W. MCKINLEY, Toledo, Ohio, assignor to The Willys-Overland Co., Toledo, Ohio, a Corporation of Ohio. Filed Oct. 29, 1917. Serial No. 199,093. 4 Claims. (Cl. 267—56.)



3. In a support for a leaf spring, a bracket for slidably sustaining one end of the spring, provided with a pair of spaced posts and an intermediate connecting base member, a saddle member provided with a pair of posts and a base member adapted to fit over the first mentioned base member and between the posts of the bracket, and a pin journaled in said posts, whereby the end of the spring is adapted to be confined between the pin and the base of the saddle member.

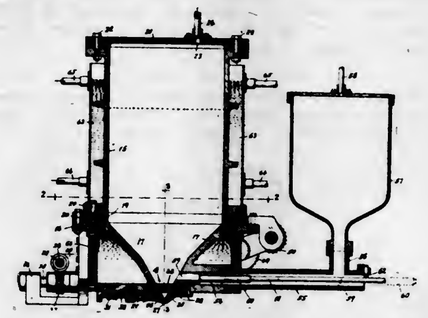
1,390,366. FOUNTAIN-PEN. RODERICK J. MACKENZIE, Cambridge, Mass., assignor to Crocker Pen Company, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 3, 1919. Serial No. 342,071. 8 Claims. (Cl. 120—46.)

1. In a fountain pen, the combination comprising the barrel of the pen, a pen-carrying section having jointed engagement with said barrel, both said barrel and pen-carrying section having a slot to provide a keyway at the point of the joint between said members when the pen-carrying section is turned to occupy a determinate position with relation to said barrel, a compressible sack within the barrel, a presser bar for collapsing said sack when



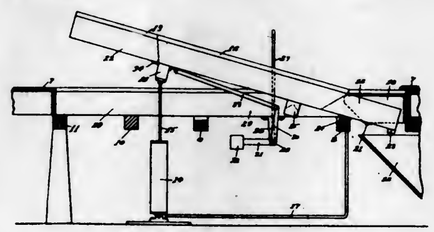
actuated, means for actuating the presser bar, and means carrying said presser bar and extended to lie within said keyway.

1,390,367. COATING-MACHINE. JOHN R. MASSEY, New Brunswick, N. J., assignor, by mesne assignments, to Vitrocell Company, Columbus, Ohio, a Copartnership composed of Walter A. Jones, Jo. L. Keener, and O. S. Marckworth. Filed Apr. 12, 1918. Serial No. 228,083. 7 Claims. (Cl. 91—43.)



2. A coating apparatus of the kind described comprising a reservoir for containing a coating material and having an outlet, means whereby said outlet is controlled, means independent of said outlet controlling means located adjacent to said outlet for forming the outflowing coating material into a film and means whereby said independent means is adjusted to fixed positions to vary the transverse thickness of the film.

1,390,368. COMBINATION AUTOTRUCK AND WAGON DUMP. PEARLY W. MANN, Minneapolis, Minn. Filed Mar. 15, 1920. Serial No. 365,930. 2 Claims. (Cl. 214—49.)



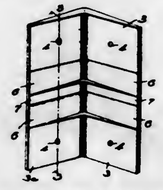
1. A vehicle dumping mechanism for relatively long and short vehicles, comprising a relatively long member tiltably mounted on a suitable bearing, a relatively short member forming a part of and tiltably mounted on said long member, means for locking said members in relatively rigid positions, means for tilting the shorter of said members singly or both members simultaneously when in said locked position, a horizontal frame having a grate therein pivotally secured to said long member rearward of said short member, and adapted to be lowered when said long member is tilted.

1,390,369. TROLLEY-WIRE CLAMP. SAMUEL S. MATTHEW, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a Corporation of New Jersey. Filed June 9, 1920. Serial No. 387,595. 12 Claims. (Cl. 191—43.)



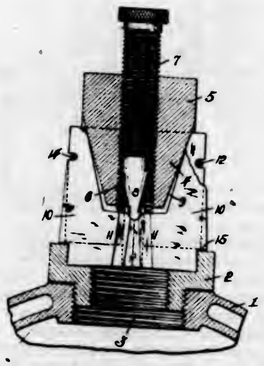
5. A supporting device to engage and clamp a conductor comprising a supporting member, means to engage a hanger, clamping means rotatably mounted within the supporting member and held in clamping position thereby and arranged to clamp a conductor, and an operating member mounted on the supporting member and movable longitudinally thereof to engage the clamping means and move them into clamping engagement with the conductor and means on the supporting member engaging means on the operating member to prevent the removal of the parts of the device and limit the longitudinal movement of the operating member in one direction only.

1,390,370. PROTECTOR FOR DESKS. ROBERT HENRY MESTER, Webster Groves, Mo. Filed Aug. 17, 1920. Serial No. 404,234. 4 Claims. (Cl. 45—137.)



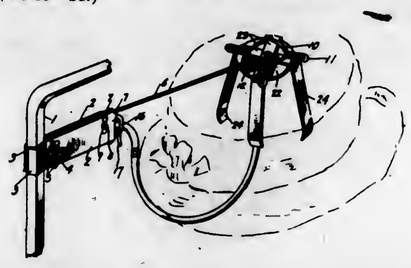
1. A protector of the class described comprising a body of yieldable material provided with wings having their inner sides formed with pairs of spaced grooves defining air pockets, and ribs disposed between said pairs of grooves, thereby separating the same, the portions of said wings surrounding said air pockets being adapted to flatly contact with the article to which the protector is secured for entirely closing said air pockets.

1,390,371. WRENCH. CARL MEYER, Toledo, Ohio. Filed Feb. 14, 1921. Serial No. 444,742. 2 Claims. (Cl. 81—72.)



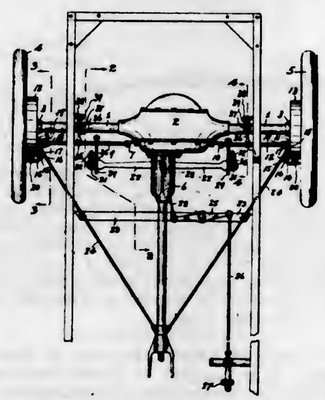
1. In a wrench of the class described, a cylindrical body member having an opening axially therethrough and a wrench gripping portion at its outer end and having a plurality of longitudinally extending recesses in its sides opening at one end into the inner end portion of the axial opening, jaws mounted in said recesses for radial movement therein and having portions entering the axial opening of the member and end portions extending beyond the inner end of the member in work engaging position, and a split spring ring encircling the body member and yieldingly holding the inner ends of the jaws to the body member to permit swinging radial movements of the outer end portions of the jaws, said ring normally locking the jaws against removal from the body member, and a screw threaded into the member opening and having its inner end in engagement with the jaws to effect a radial expansion thereof when the screw is turned inward.

1,390,372. HAT-HANGER. CARL P. MILLER, Fargo, N. D. Filed July 24, 1920. Serial No. 398,606. 4 Claims. (Cl. 45—13.)



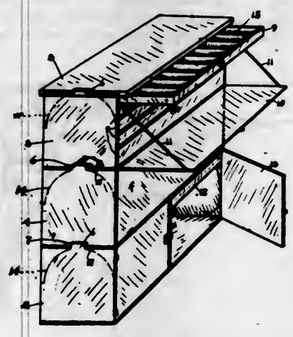
1. A device for the purpose set forth comprising a support, an arm held by and extending from said support and provided at its free end with a base member to rest upon the crown of a hat, a sustaining arm pivotally fitted within the support below the first-mentioned arm and constructed at its free end to engage within the crown of a hat and support the same against said base member, and a latch carried by the support to engage under and sustain said pivoted arm.

1,390,373. BRAKE MECHANISM FOR AUTOMOBILES. MORRIS MOSKOWITZ, Montclair, N. J. Filed July 15, 1920. Serial No. 396,547. 11 Claims. (Cl. 188—204.)



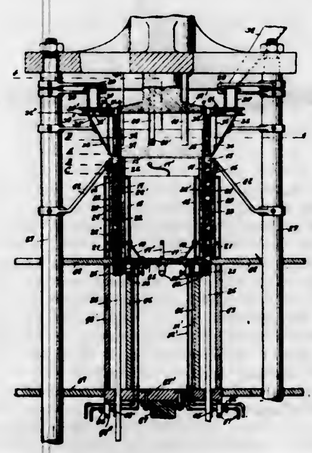
1. In an automobile braking system, the combination with the rear wheel brake mechanisms of an equalizing bar parallel with and adjacent to the axle housing, and means for applying a pushing pressure to said equalizing bar.

1,390,374. SECTIONAL FURNITURE. EDITH LINCOLN NILES, Delaware, Ohio. Filed Dec. 26, 1919. Serial No. 347,546. 2 Claims. (Cl. 45—78.)



1. In sectional furniture having a plurality of sections, each section having an integral lug on the upper edge of its end and each coöperating superimposed section having a central recess in the lower edge of its end and a central notch in its floor adjacent said recess, each recess and notch being adapted to receive its coöperating lug to hold said sections in fixed lateral end relation to each other, substantially as set forth and for the purposes specified.

1,390,375. FORCED ARTICLES AND PROCESS AND APPARATUS FOR MAKING THE SAME. FRITZ OFFENHÄUSER, Tarrytown, N. Y. Filed Apr. 25, 1918. Serial No. 230,751. 21 Claims. (Cl. 18—14.)



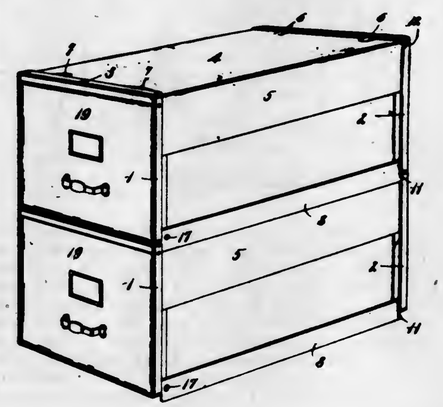
1. An apparatus of the character described, comprising a mold chamber to receive the material to be shaped, feeding means arranged at one end of said chamber and including a material directing member at the outer side of the chamber, a compressing plunger movable into and out of said end of the chamber and coöperating with said directing member to cut off the further feed of the material upon the entrance of the plunger into said chamber, and relatively stationary means at the opposite side of the chamber to prevent the overflow of the material therefrom.

1,390,376. AUTOMATIC SPEED-GOVERNOR FOR INTERNAL-COMBUSTION ENGINES. RICHARD ARNOLD OGLESBY, South Bend, Ind., assignor to Quick Action Ignition Company, South Bend, Ind., a Corporation of Indiana. Filed Aug. 5, 1918. Serial No. 248,361. 2 Claims. (Cl. 123—118.)



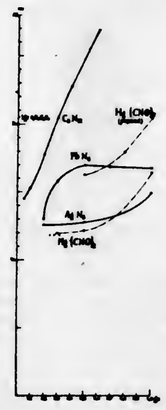
1. In ignition systems for internal combustion engines, a crank shaft, an engine casing, an armature plate supported by said casing, a magnet supporting member supported by the crank shaft, a permanent field magnet thereon, a coil on the armature plate adapted to have currents induced therein as the magnet is moved adjacent thereto, a circuit breaker supported on the armature plate, means rotative with the magnet adapted to actuate the breaker, one or more spark plugs for the engine, connections from the coil to the spark plugs, a centrifugal governor carried in unison with the field magnet movement, and means controlled by the governor for automatically depriving the spark plugs of current at excessive engine speeds and restoring the same at lowered speeds.

1,390,377. SECTIONAL FILING-CASE. ENOCH OHNSTRAND, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass., a Corporation of New Jersey. Filed July 9, 1919. Serial No. 309,663. 4 Claims. (Cl. 45—2.)



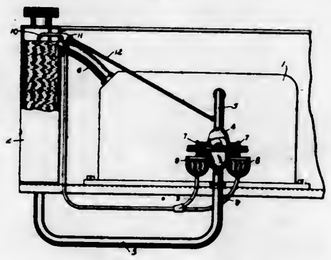
1. A metal sectional filing case, each section of which comprises rectangular front and rear frames, and side flanges between the front and rear frames, extending downwardly below the bottom of the section and overlapping the sides of the next section below and covering the joint between the two sections, the ends of said depending side flanges fitting between the front and rear frames of the section below, and interlocking means between the rear ends of the depending side flanges and the rear upright frame members of the section below.

1,390,378. EXPLOSIVE AND PROCESS OF MAKING SAME. EDWIN OTT, Basel, Switzerland, assignor to Prof. Dr. Edwin Hanton Faust, Basel, Switzerland. Filed May 25, 1920. Serial No. 384,208. 2 Claims. (Cl. 23—24.)



1. The herein described process for the manufacture of cyanure triazid, consisting in treating aqueous solutions of sodium azid with a cyanure halogenid.

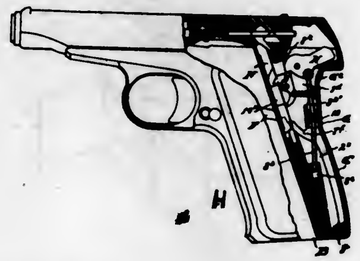
1,390,379. MEANS FOR CATCHING AND RESTORING FLUID-LEAKAGE. FRANK E. PAYNE, Glencoe, Ill. Filed Jan. 31, 1920. Serial No. 355,342. 7 Claims. (Cl. 123—175.)



5. In combination with the water cooling system of an internal combustion engine, said system comprising a radiator, pump, and conduits, of catch basins forming part of the pump structure, drain pipes leading therefrom, said drain pipes uniting in a single drain pipe extending into the upper part of the radiator above the water line and terminating in a downwardly turned bend, a check valve formed in said drain pipe beneath said bend, and an injector pipe leading from said pump to said drain pipe and joined thereto at a point between said check valve and said bend.

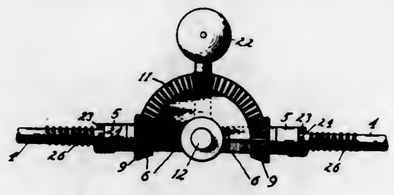
1,390,380. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed Dec. 16, 1919. Serial No. 345,176. 18 Claims. (Cl. 42—8.)

1. In a firearm, in combination, a frame of said firearm, a firing member movable to firing position and to fired position, a sear member engageable with said firing member, a shiftable slidable member, means for moving said shiftable member in direction to lock said sear member and firing member in firing position, said sear member being engageable with said shiftable slidable member to move the shiftable slidable member in direction reverse to the first mentioned direction when said firing member is moved to fired position, a grip-compressible member engageable with said frame and engageable with said shiftable slidable member when in position of safety to block the shiftable slidable member in said locking position, and by grip-compression releasable from engagement with said frame



and settable for releasing the shiftable slidable member, and a trigger engageable with said shiftable slidable member to shift the same, when said grip-compressible member is grip-compressed, to release said grip-compressible member from engagement with said shiftable slidable member, and move said sear member for releasing said firing member for movement to fired position.

1,390,381. VEHICLE DIRECTION-INDICATOR. JULES PEYRÉ, San Francisco, Calif. Filed Aug. 29, 1919. Serial No. 321,242. 4 Claims. (Cl. 116—47.)



1. In a vehicle direction indicator, the combination with a signal plate pivotally mounted upon each rear side of a vehicle, of a shaft operatively connected to each of said signals and extending to the approximate center of the vehicle; pinions mounted upon the inner ends of said shafts; an operating shaft rotatably mounted upon the under side of said vehicle; means mounted in a position adjacent the operator of the vehicle for rotating said shaft in either direction; a segmental gear mounted upon rearward end of the operating shaft to engage the signal shaft pinions upon opposite extremities thereof in such manner that a rotation of the operating shaft in one direction from a normal position will rotate one signal into a displayed position, and rotation of the operating shaft in the other direction from said normal position will rotate the opposite signal into a displayed position.

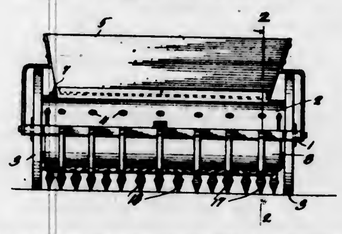
1,390,382. COLLAPSIBLE UMBRELLA. OTTO W. F. POSSELT, New York, N. Y. Filed June 9, 1920. Serial No. 387,588. 4 Claims. (Cl. 135—33.)

4. The combination with an umbrella including a telescopic staff, of a casing carried by one end thereof and open at its top, a flexible covering adapted to be received in the casing when the umbrella is in operative position and adapted to inclose the umbrella when collapsed, a resilient band carried by the outer end of the covering and adapted to resiliently engage the upper end of the casing when the covering is received therein, and a closure for the casing



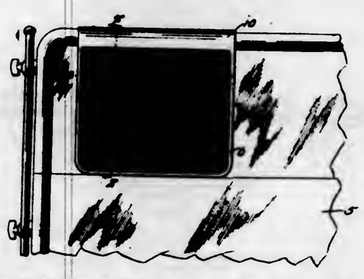
hinged to the band and provided with a longitudinal slot for the reception of the staff when the covering is housed within the casing.

1,390,383. PLANTER AND FERTILIZER-DISTRIBUTER. GEORGE D. POWELL, McKenzie, Tenn. Filed July 24, 1919. Serial No. 312,901. 2 Claims. (Cl. 221—137.)



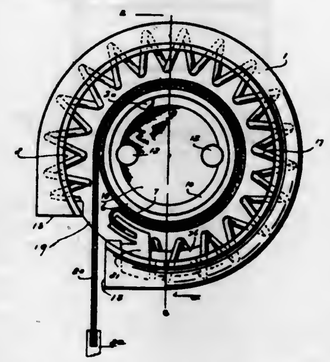
1. In a machine for distributing seed and fertilizer, concentric cylinders, one of the cylinders having a row of openings and the companion cylinder having rows of openings which are adapted to register with certain openings of the cylinder having the single row of openings, the several rows of the adjustable cylinder having a varying number of openings, whereby the mechanism may be adjusted to distribute the material in any given number of rows within the range of adjustment of the mechanism.

1,390,384. GLARE-SHIELD. THOMAS A. RAMSAUR, Fayetteville, N. C. Filed Mar. 17, 1920. Serial No. 366,527. 1 Claim. (Cl. 296—97.)



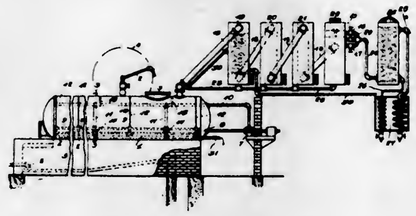
The combination with the wind-shield of a vehicle, of a light diffusing sheet extending parallel to the wind-shield and spaced from one face thereof, a resilient clip carried by the upper edge of the sheet and engaging the upper edge of the wind-shield, a bar depending from the clip and extending parallel to the opposite face of the wind-shield, and a yieldable strip carried by the bar and engaging the wind-shield.

1,390,385. SNUBBER. FRED H. REAM, Dayton, Ohio. Filed Oct. 21, 1920. Serial No. 418,490. 1 Claim. (Cl. 188—130.)



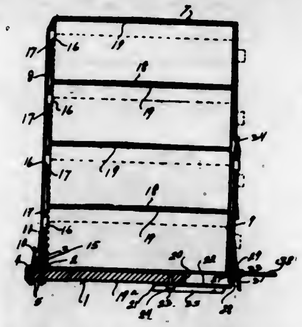
A snubber device for automobiles, consisting of a circular housing member, a concaved bed in the periphery of said member, a compression spring lodged in said bed and conforming therewith, an attaching member demountably mounted in the rearward side of said housing member and provided with an inwardly projecting cylindrical plug, a hollow cylindrical drum mounted on the projecting plug on said attaching member and provided externally with brake lining, a strip of brake lining connected with one end of said spring and arranged to travel on said drum and extend outwardly of the housing member, a buckle adjustably mounted on said strip, said buckle having a rigid jaw portion and an adjustably mounted hook member coöperating with the jaw to form a grip, and a cap member demountably mounted in the front side of said housing member and having an inwardly projecting plug entering the adjacent end of said drum.

1,390,386. STILL. WIRT D. RIAL, Ponca City, Okla., assignor to Marland Refining Company, Ponca City, Okla., a Corporation of Oklahoma. Filed Nov. 13, 1919. Serial No. 337,722. 4 Claims. (Cl. 196—25.)



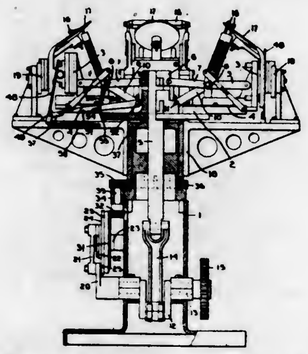
2. In an apparatus of the character described, in combination, a still, and means adapted to prevent substances settling on the bottom thereof comprising a pipe suspended from the upper part of the still carrying a plurality of headers flexibly supported closely adjacent the bottom of the still, and a plurality of lateral pipes having perforations on their under sides whereby the liquid within the still is drawn therefrom and discharged down through said perforations.

1,390,387. LUGGAGE-CARRIER FOR AUTOMOBILES. JOHN B. RICE, Uniontown, Pa. Filed Dec. 23, 1920. Serial No. 432,722. 9 Claims. (Cl. 224—29.)



1. In a carrier, a main carrier strap comprising dominant and auxiliary sections, the dominant section being connected to the inner edge of the running board adjacent the body of the automobile, the auxiliary section being connected to the outer edge of the running board, the two sections engaging about the luggage, and a plurality of auxiliary straps adjustably and detachably connected to the main strap for passing about each article of luggage.

1,390,388. PRINTING-MACHINE. CHARLES F. ROBBINS, Keene, N. H., assignor to Markem Machine Company, Boston, Mass., a Corporation of Massachusetts. Filed Oct. 8, 1920. Serial No. 415,590. 9 Claims. (Cl. 101—193.)



1. In a printing machine of the type having a frame carrying a plurality of radially-movable type-carriers, a rotatable platen-supporting member carrying a plurality of platens, and means to give the platen-supporting member an intermittent rotative movement, thereby to bring the platens into line with the type-carriers successively, the combination with a plunger reciprocating in the frame for giving the type-carriers their radial movement, of a lock for holding the platen-supporting member from rotation while the printed impression is being made, and means to actuate said lock by the movement of the plunger.

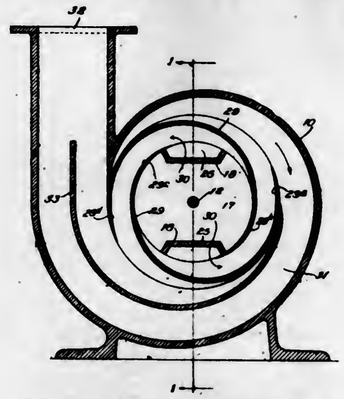
1,390,389. LIGHTING DEVICE. FRANCIS M. ROSENFELD, New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corporation, Newark, N. J., a Corporation of New Jersey. Filed Jan. 31, 1920. Serial No. 355,404. 4 Claims. (Cl. 248—42.)

4. A Christmas tree lighting device comprising in combination a hollow lamp holder and a support adapted to retain the lamp holder in upright position on a Christmas tree and having one end arranged in convolutions to form a gripping member and the other end bent back upon



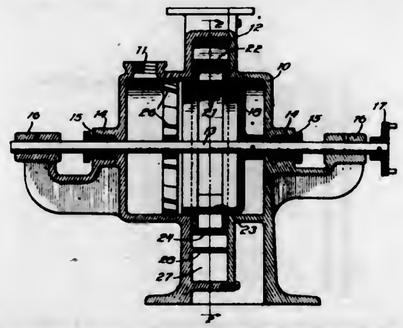
itself to form a hook shaped member adapted to project through an open end of the holder and to support the same in operative position on a Christmas tree.

1,390,390. FLUID-DISPLACING APPARATUS. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Aug. 21, 1919. Serial No. 318,984. 7 Claims. (Cl. 230—14.)



1. An apparatus of the character described embodying a casing having a liquid inlet and a discharge outlet, a rotor mounted in the casing, and means for imparting a high rate of speed of rotation to the rotor, said rotor embodying a plurality of blades extending from the periphery of the rotor inwardly and terminating short of the axis of rotation of the rotor, said blades being spaced to form fluid passages therebetween, the portions of proximate blades adjacent the outlets of the passage being substantially parallel and substantially concentric with the axis of rotation of the rotor, whereby little centrifugal force or turbine action will be imparted to the liquid as the rotor operates therein and the blades move therethrough.

1,390,391. FLUID-PUMP. BENJAMIN SKIDMORE, Jr., Chicago, Ill. Filed Jan. 12, 1920. Serial No. 350,982. 8 Claims. (Cl. 253—200.)

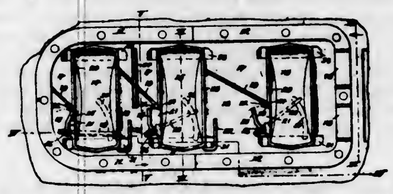


1. A pump embodying a rotor having a high speed of rotation, said rotor embodying a plurality of blades, arranged about but spaced from the axis of rotation of the rotor, said blade being spaced and coöperating to form liquid passages therebetween, the portion of proximate blades adjacent the outlets of the passages being in substantially parallel circles and concentric with the axis of rotation of the rotor, whereby the liquid between the blades will be maintained in a substantially quiescent condition and substantially no centrifugal or turbine action will be imparted to the liquid between the blades as the blades and the liquid therebetween are displaced relatively one with relation to the other.

1,390,392. EMBALMING FLUID. THEODORE SPEABER, Chicago, Ill. Filed May 27, 1921. Serial No. 473,006. 4 Claims. (Cl. 27—22.)

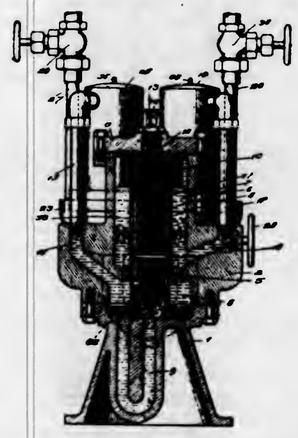
1. An embalming fluid composed of formaldehyde and citrate of magnesia.

1,390,393. LUBRICATING SYSTEM. HENRY U. SPENCE, Painesville, Ohio. Filed Dec. 18, 1920. Serial No. 431,633. 17 Claims. (Cl. 184—13.)



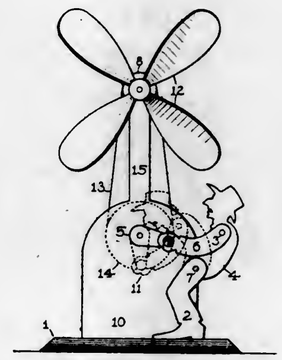
4. In a lubricating system of the splash type, the combination of a pan over which the oil flows from one end to the other; a plurality of pockets formed in the pan in position to be entered by the connecting rods and to receive oil from the pan as it flows over the same; and means for maintaining the level of the oil in each of the pockets at a substantially constant level.

1,390,394. FLOW-METER. JACOB M. SPITZGLASS, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 25, 1917. Serial No. 198,432. 7 Claims. (Cl. 177—351.)



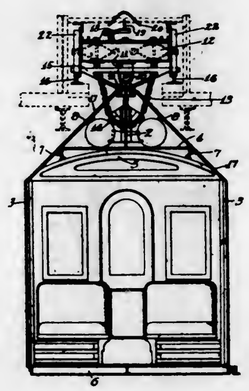
1. A safety-seal for a differential flow meter comprising a pair of cylinders connected at the bottom by a U-tube, connections at the bottoms of the cylinders for applying differential pressure, and tubular means extending from the tops of the cylinders for applying differential pressure to a flow meter.

1,390,395. MECHANICAL TOY. AXEL ELOF SPONGBERG, Brooklyn, N. Y. Filed Nov. 2, 1920. Serial No. 421,225. 2 Claims. (Cl. 46—40.)



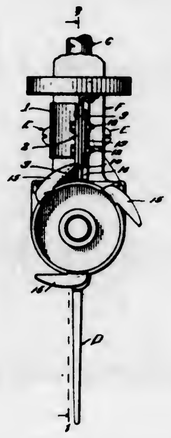
1. A toy including a jointed figure whose parts are adapted to move in parallel planes, a base supporting said figure, a post upon said base having a rotatable crank mounted therein, a pin connecting the free end of said crank to the upper pair of movable extremities of said figure, and means for rotating said crank, with means for transmitting said movement to other parts of said toy including primarily a manually operated crank secured axially to said first crank behind said post, and secondarily a pulley secured on the axis of said cranks connected by a cord to said other toy parts.

1,390,396. RAILWAY-CAR. JOSEPH B. STRAUSS, Chicago, Ill. Filed Dec. 19, 1914. Serial No. 878,028. 14 Claims. (Cl. 105—141.)



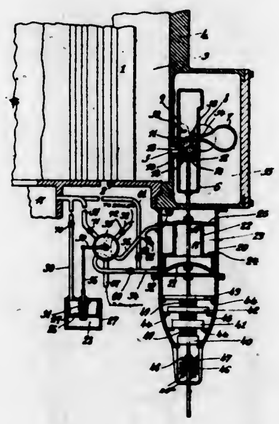
1. A car comprising a body portion, a stiffening frame connected with said body portion, said stiffening frame having side pieces and a cross piece at the top connecting said side pieces, and a central beam extending longitudinally of the car body substantially throughout the length of the car and connected with said stiffening frame.

1,390,397. SELF-CLEARING PROPELLER. TOBIAS SVENSON, Milwaukee, Wis. Filed Dec. 6, 1920. Serial No. 428,517. 7 Claims. (Cl. 115—40.)



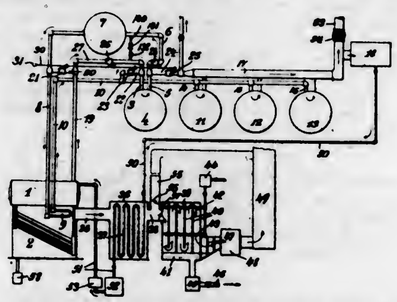
1. In a device of the character described, the combination of a propeller and its shaft, movable means operated by the latter, and stationary means coacting with said movable means and the propeller for severing material.

1,390,398. UNIFLOW ENGINE. EVERETT W. SWARTWOUT, White Plains, N. Y. Filed June 3, 1916. Serial No. 101,511. 26 Claims. (Cl. 121—125.)



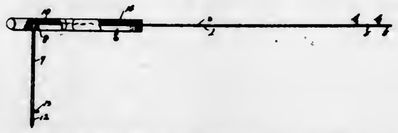
1. The combination with a source of fluid compressed to a substantially constant pressure, of a uniflow device communicating with said source, said uniflow device comprising a cylinder and a piston reciprocable within said cylinder and means for precluding compressional pressure within said cylinder in excess of said constant pressure, said precluding means including a clearance means comprising a plurality of clearance chambers, means for controlling the communication of said clearance means with the interior of said cylinder and exhaust pressure responsive means controlling said controlling means.

1,390,399. STEAM-MOTIVE-POWER PLANT. EVERETT W. SWARTWOUT, White Plains, N. Y. Filed May 22, 1917. Serial No. 170,121. 24 Claims. (Cl. 121—125.)



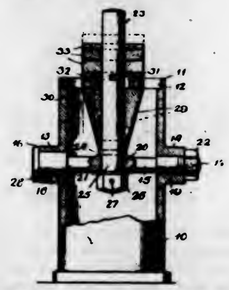
1. The combination with steam supplying means, of a uniflow engine comprising a plurality of cylinders, each cylinder being provided with a piston, inlet and exhaust means and a normal clearance space, variable supplemental clearance means for said cylinders, means connecting said steam supplying means and said cylinders for operating one of said cylinders at high pressure and the remainder of said cylinders at low pressure and means connecting said steam supplying means and said cylinders for operating all of said cylinders at uniform pressure.

1,390,400. COMBINATION-TOOL. PRESTON E. THREET, Philadelphia, Pa., assignor of one-third to Alexander Dredden and one-third to Omar G. Jones, Philadelphia, Pa. Filed Aug. 11, 1920. Serial No. 402,844. 1 Claim. (Cl. 30—9.)



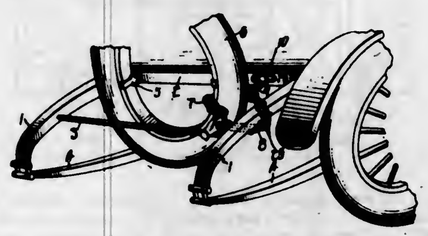
In a device of the character described, a blade, a handle fitted to said blade, said handle having a recess formed therein, two cavities leading from said recess, a spring consisting of the inner portion of the blade located over one of the cavities, a member pivoted within the recess in such manner that its heel end will bear against said spring, and a prong carried by said member, said prong being adapted to enter the other cavity.

1,390,401. AUTOMATICALLY-ADJUSTABLE EXHAUST-NOZZLE FOR LOCOMOTIVE-ENGINES. JAMES TROTTER, Chicago, Ill. Filed Nov. 22, 1920. Serial No. 425,695. 11 Claims. (Cl. 162—8.)



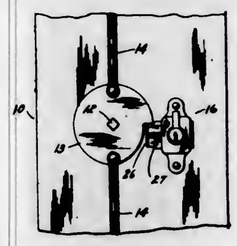
1. A constantly open exhaust nozzle for locomotive engines, a floating element operable automatically by the action of the steam thereupon to vary the exhaust blast from the nozzle, the external diameter of the element at all points being considerably less than the internal diameter of the nozzle, and means maintaining the element entirely within the nozzle.

1,390,402. TIRE-LOCKING DEVICE. EDWARD H. VINCENT, Detroit, Mich. Filed June 6, 1919. Serial No. 302,170. 1 Claim. (Cl. 70—30.)



In combination with two permanent parts of a vehicle and a spare tire or wheel carried by said vehicle, a three-branched chain having one branch anchored to one of said permanent parts and the other two branches passing about said tire or wheel and also about said other permanent part, and lock means for securing together the ends of said other two branches for preventing the unauthorized removal of said chain from said tire or wheel.

1,390,403. LOCK. HENRY G. VOIGHT, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Apr. 9, 1919. Serial No. 288,667. 10 Claims. (Cl. 70—47.)



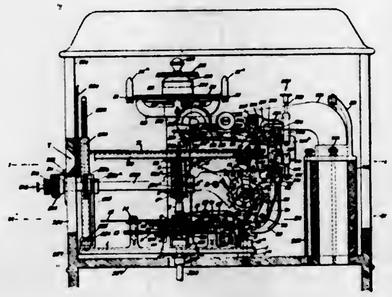
1. In combination with a sheet metal door, a pin tumbler lock casing having an end thereof secured against the inner face of said door, said casing having a notch formed in the door engaging face thereof, a bolt slidably mounted within said notch and retained therein by the inner face of said door, and a key plug rotatable within said casing and having its forward end accessible through an opening in said door, said plug provided with means adjacent its forward end for imparting a sliding movement to said bolt.

1,390,404. PHONOGRAPH. JOHN WAHLBERG, New York, N. Y. Filed June 22, 1920. Serial No. 390,789. 381 Claims. (Cl. 274—10.)

15. A record magazine comprising a stationary record guiding and spacing plate, separating slides above and supporting slides below said stationary record guiding and spacing plate, and means for alternately shifting said slides in reverse directions.

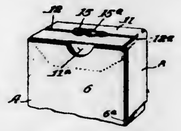
52. In apparatus of the character described, record-engaging slides, shafts for operating the same provided with gears, a double-ended rack in mesh with said gears, and means for positively shifting said rack in reverse directions.

152. In a phonograph, a vertically movable turn-table support provided with a rack, a gear element engaging said rack and automatically controlled indexing mechanism controlling said gear element.



381. In a phonograph, a turn-table, columns at diametrically opposite sides of said turn-table, horizontally operating record separating and supporting slides mounted on said columns, arcuate record guiding plates fixedly mounted on the columns between the separating and supporting slides, vertically operating record lowering fingers mounted on the columns, a reproducer supported to coöperate with a record on the turn-table and mounted for a vertical falling movement, a record on the turn-table having a depression at the end of the sound groove therein to impart a falling motion to the reproducer, a trip member positioned beneath the reproducer to be actuated thereby upon falling movement of the same, a power device normally restrained by said trip member, a reproducer lifting lever adapted to be actuated by said power device, index mechanism for lowering the turn-table step by step and arranged to be actuated by the power device and means controlled by said index mechanism for swinging the reproducer clear of the record, for operating the record changing slides and fingers and for then returning the reproducer and lowering the same over the turn-table.

1,390,405. HOOK-AND-EYE PACKAGE. JINDŘICH WALDES, Prague, Bohemia. Filed Aug. 1, 1919. Serial No. 314,758. 1 Claim. (Cl. 211—40.)

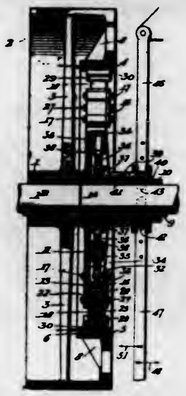


A hook and eye package, comprising a box for a supply of hooks and eyes and having a cover having slots terminating in enlarged openings whereby a hook and eye may be supported with the eye extending through one of said openings and the hook extending through the other opening and detachably engaging the eye on the outside of the cover.

1,390,406. FLEXIBLE-FLANGE FRICTION-CLUTCH BELT-PULLEY. THOMAS C. WALKER, Jr., Denver, Colo. Filed Oct. 1, 1920. Serial No. 414,042. 5 Claims. (Cl. 192—113.)

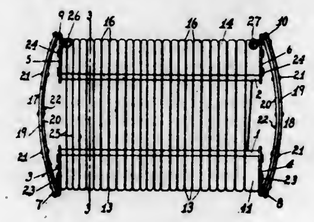
1. A flexible flange clutch gripping pulley, comprising a pulley having a belt receiving rim, and a flange member arranged to be engaged by a friction clutch member, and

to yieldingly spring under the pressure thereof, said flange projecting downward from said rim and provided with a



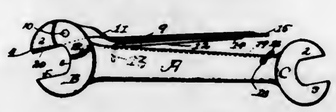
series of apertures, and a ring on the end of said flange against which said clutch bears.

1,390,407. ELECTRIC HEATING UNIT. JOHANN G. WALLMANN, Oakland, Calif. Filed Sept. 25, 1920. Serial No. 412,763. 5 Claims. (Cl. 219—63.)



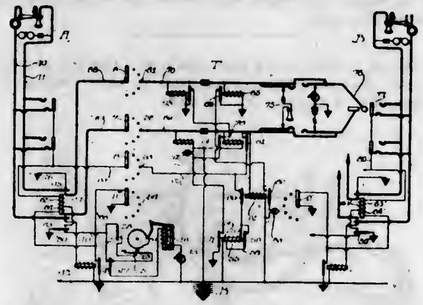
1. In an electric heating unit, two bars of insulation spaced apart, a conducting wire wound around said bars, a thermal bar interposed between said bars, whereby said bars are forced apart and separated farther upon the passage of a current through the wire.

1,390,408. END-WRENCH. WILLIAM S. WEBBER, Chicago, Ill. Filed Oct. 28, 1920. Serial No. 420,202. 2 Claims. (Cl. 81—125.)



1. The improvement in end-wrenches comprising a shank member of generally oval form in cross section having a groove in its margin extending longitudinally of the shank and having a pair of nut engaging jaws at one end of the shank, one of said jaws being slotted, a pivoted lever fulcrumed in said slotted jaw, the handle end of the lever extending over the grooved margin of the shank and being concaved in cross section to form a groove complemental to the shank groove, a resilient member positioned in the grooves between said lever and shank, secured at one end to the latter and adapted to operate the lever, and means for locking the lever against movement.

1,390,409. AUTOMATIC TELEPHONE-SWITCH. HARRY G. WEBSTER, Chicago, Ill. Filed Apr. 19, 1916. Serial No. 92,060. 44 Claims. (Cl. 179—27.)

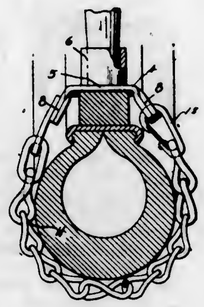


2. In combination, a plurality of stationary contacts, a plurality of movable wipers adapted to make contact with said stationary contacts, a shaft for controlling said wipers, a ratchet for the shaft, a stepping magnet for operating said ratchet, a pawl normally engaging said ratchet, said ratchet having means for throwing said pawl outward, means for holding said pawl outward, said means controlling the circuit of the stepping magnet.

1,390,410. ART OF ACID MANUFACTURE. PAUL WENTWORTH WEBSTER, Pelham Manor, N. Y., assignor to Perry & Webster Incorporated, New York, N. Y., a Corporation of New Jersey. Filed Oct. 26, 1918. Serial No. 259,775. 7 Claims. (Cl. 23—1.)

6. The process of recovering sulfuric acid, comprising supplying an acid-collecting liquid to gases containing a sulfuric acid mist and simultaneously subjecting the gas, mist and fluid to a strong centrifugal force.

1,390,411. MUD-CHAIN. NOAH R. WHITE, Delta, Colo. Filed Aug. 31, 1920. Serial No. 407,129. 1 Claim. (Cl. 152—14.)

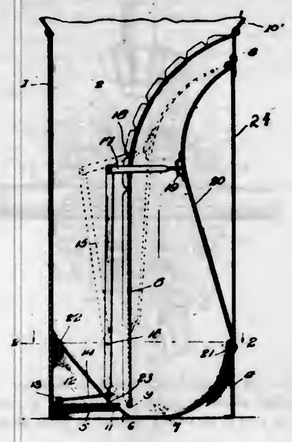


A mud chain for vehicle wheels including a pair of plates, each consisting of a base to engage the wheel felly and an upstanding semi-cylindrical portion to embrace the spoke of the wheel, means pivotally connecting the plates at one end, and a chain engaged with said means and extended around the tire of the wheel into engagement with the opposite ends of said plates to detachably engage the latter with the wheel spoke.

1,390,412. FEED-RACK. MARGARET V. WIDHELM, Fremont, Nebr. Filed Oct. 2, 1919. Serial No. 327,874. 5 Claims. (Cl. 119—54.)

5. A hog-feeding bin having an upwardly inclined floor, a hopper discharging onto the upper portion of the floor,

a sliding gate controlling the passage of feed from the hopper onto the floor, and a swinging door operatively



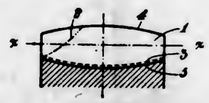
connected to the gate and shifting the gate upon the movement of the door.

1,390,413. WALL-COVERING AND PROCESS OF MAKING SAME. JOHN D. WIGGIN, Montclair, N. J., assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J., a Corporation of New Jersey. Filed Feb. 2, 1916. Serial No. 75,709. 14 Claims. (Cl. 8—20.)



1. A wall or other covering fabric having as a basis woven goods having uneven threads, the unevennesses of which have been enlarged after the weaving of the fabric.

1,390,414. GEAR-WHEEL. ERIK HJALMAR WINGQVIST, Gottenborg, Sweden, assignor to Aktiebolaget Svenska Kugghjulsfabriken, Gottenborg, Sweden, a Corporation of Sweden. Filed July 8, 1919. Serial No. 309,303. 8 Claims. (Cl. 74—41.)



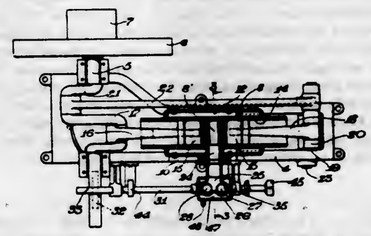
1. A toothed gear-wheel having teeth the top surfaces of which are convex in the longitudinal direction of the tooth in such manner that the height of the tooth, and thus the bending moment, is decreased toward the ends of the tooth, said teeth being shaped in such manner that when meshing with the teeth of another gear wheel, they touch the latter teeth along the whole length of the tooth.

1,390,415. OIL-GAGE. LEE L. WINTERS, Ann Arbor, Mich. Filed Oct. 22, 1920. Serial No. 418,654. 1 Claim. (Cl. 73—82.)



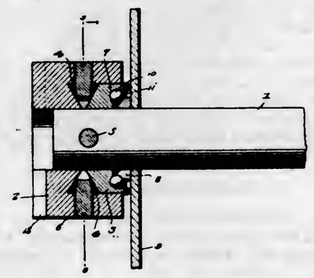
In an oil gage for a crank shaft casing, a dome-shaped shell, a float located in the shell, a rod connected to the float and extending through the top of the shell, and a block of felt located on the float and around the rod for seating within the dome and around the opening through which the rod extends.

1,390,416. GAS-ENGINE. JACOB WOLF, Milwaukee, Wis. Filed Oct. 11, 1919. Serial No. 330,145. 2 Claims. (Cl. 123—51.)



1. In a two piston internal combustion engine, the combination, with a base frame, of a cylinder having a bore open at both ends, two pistons working in said bore in opposite directions and forming a combustion chamber therewith, a cranked shaft having opposed cranks, a connecting rod connecting one of the pistons to one of the cranks, a beam pivotally mounted at its lower end on said frame, a wrist pin carried by the upper end of said beam, a connecting rod connecting said wrist pin with the other piston, and a connecting rod connecting said wrist pin with the other crank.

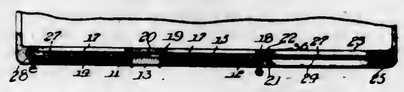
1,390,417. ATTACHMENT FOR CRANK-SHAFTS. WALTER W. YARBROUGH, Memphis, Tenn. Filed July 12, 1920. Serial No. 395,677. 2 Claims. (Cl. 64—49.)



1. In combination, a motor crank shaft having a fan belt pulley at the end thereof, said pulley being recessed

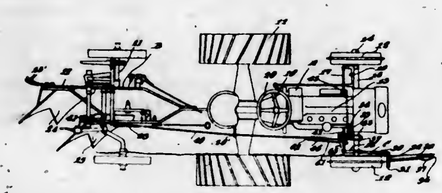
on its inner face and the bottom of the recess being conical and having its convex surface toward the recessed face of the pulley, a cone shaped ring fitting about the crank shaft and within the recess of the fan belt and having its conical surface facing that of the fan belt, a pin extending transversely of the crank shaft and the fan belt at the conical surface of the cone and belt, and set screws threaded through the fan belt and engaging the conical surfaces for moving said surfaces away from each other, said cone shaped ring carrying a ball bearing comprising a bearing and a sectional race, the cone shaped member carrying one section of the race and the other section abutting the crank case.

1,390,418. VEHICLE-TOP. MORRIS ZUTMAN, Chicago, Ill. Filed June 20, 1917. Serial No. 175,736. 5 Claims. (Cl. 296—47.)



1. A vehicle body having a door and a pair of windows arranged in one side of the body of the vehicle, said windows being arranged at the opposite edges of the door, one of said windows and the door being arranged in substantially the same plane, the other window being arranged in another plane in the rear portion of the top of the body, said last mentioned window being movable, a guide for the last mentioned window, said guide and window being arranged in substantial alinement with each other, and said guide extending from the rear to the front portion of the side, the movable window being movable along the guide from its position in the rear of the body to the front portion thereof, and said door being operable when the window is in either of its extreme positions.

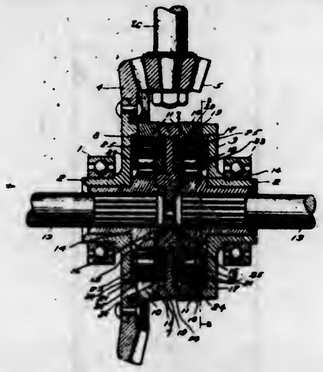
1,390,419. AUTOMATIC TRACTOR-GUIDE. FRANK L. ZYBACH, Grand Island, Nebr. Filed Oct. 8, 1920. Serial No. 415,588. 7 Claims. (Cl. 97—81.)



1. In combination with a tractor including a steering mechanism and a plow, of an automatic actuating mechanism for said steering mechanism including a pilot member adapted to ride in a furrow and follow the curvature thereof, means operatively connecting the pilot member to the steering mechanism of the tractor, means for automatically stopping the tractor, when the pilot member leaves the furrow, and means for automatically operating said last mentioned means upon accidental detachment of the plow from the tractor.

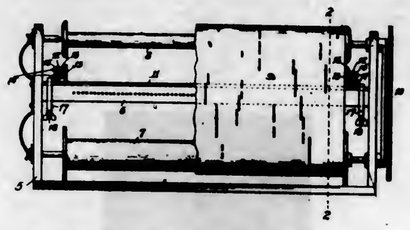
1,390,420. COMPENSATING GEARING FOR MOTOR-VEHICLES. JOHN D. ALLEN, Philadelphia, Pa. Filed Jan. 13, 1919. Serial No. 270,836. 3 Claims. (Cl. 74—7.)

1. In a gearless differential, the combination with the alined driven members provided with ratchet teeth, the inclosing driving casing, and the intermediate member having a lost-motion connection with the casing, of pawl-



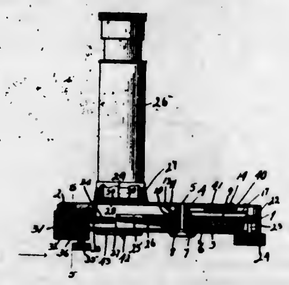
carriers pivoted on said intermediate member and having lugs engaging slots in said casing, and a pair of oppositely facing pawls pivotally seated in each pawl-carrier.

1,390,421. ATTACHMENT FOR PLAYER-PIANOS. JOHN H. BATES, Chicago, Ill. Filed Mar. 29, 1920. Serial No. 369,651. 3 Claims. (Cl. 84—136.)



1. An attachment for player-pianos comprising guides for the edges of the note sheet, and clamping devices extending around the face of the tracker bar and provided with means between which the tracker-bar will be clamped to secure the guides thereon.

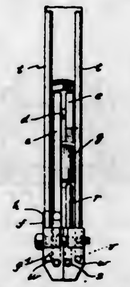
1,390,422. HEMOGLOBINOMETER. GEORGE BENNETT, Sr., Philadelphia, Pa., assignor to American Instrument Company, a Partnership composed of George Bennett, Sr., Harry W. Pohlke, and William D. Kidney, Philadelphia, Pa. Filed June 18, 1920. Serial No. 389,846. 7 Claims. (Cl. 88—14.)



7. In an instrument of the character described, a dust proof casing carrying two face plates, glass covered open-

ings formed in said face plates, a test glass disk mounted within the casing so as to rotate, means for rotating said disk, a test glass carried by the disk, a blood holder adapted to slide in the casing and be held in position by friction, an observation tube carried by one of the face plates of the casing, and an observation disk located in the base of said tube, said disk having two holes located adjacent each other.

1,390,423. WELDING-TIP. SIMON BERG, Detroit, Mich., assignor to Michigan Steel Tube Products Company, Detroit, Mich., a Corporation of Michigan. Filed June 3, 1920. Serial No. 386,400. 15 Claims. (Cl. 158—27.4.)

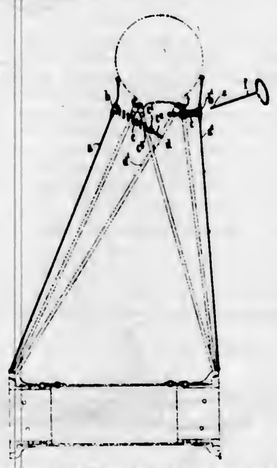


1. In a torch, the combination of a stem, an extension clamp which can be secured thereto, a two-section block tip one of whose sections is secured to the end of the extension, and means for adjustably securing the other section directly to the first-mentioned section.

1,390,424. WATERPROOF COMPOSITION. WILLIAM C. BEYENBERG, Passaic, N. J. Filed Dec. 1, 1920. Serial No. 427,587. 3 Claims. (Cl. 134—17.)

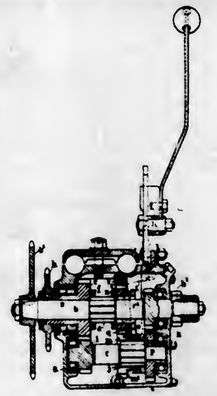
1. A composition for waterproofing and stiffening textile material which comprises a combination of rubber, glue, starch, gum-arabic, and rosin, in about the proportions herein specified.

1,390,425. MEANS FOR ATTACHING VEHICLE-SPOKE COVERS. WILLIAM BLAIR, Coventry, England, assignor to Rudge-Whitworth Limited, Crow Lane, Coventry, Warwick, England. Filed Nov. 8, 1918. Serial No. 261,683. 4 Claims. (Cl. 301—37.)



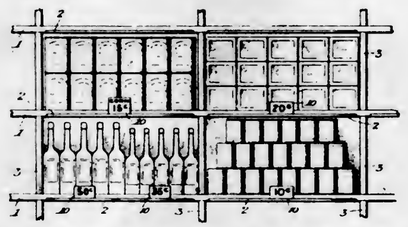
1. Means for attaching spoke covers to wheels comprising an eyelet, a coiled spring connected with the eyelet, said spring being provided with a hook.

1,390,426. VARIABLE GEAR FOR MOTOR-VEHICLES AND THE LIKE. WILLIAM BLAIS, Coventry, England, assignor to Rudge-Whitworth, Limited, Crow Lane, Coventry, England. Filed Feb. 28, 1920. Serial No. 362,151. 6 Claims. (Cl. 74—58.)



1. A variable ratio power transmission gear comprising a main shaft, a lay shaft, a pinion fixed to one end of the lay shaft meshing with a pinion rotatable upon the main shaft; a pinion rotatable upon the other end of the lay shaft meshing with a fixed pinion upon the main shaft, a pair of pinions always in mesh, one on each shaft, means for sliding said pair of pinions always in unison on said shafts and engaging means upon said shafts, pair of pinions and rotatable pinions whereby the movement of said pair of pinions effects desired changes in the gear ratio.

1,390,427. PRICE-CARD HOLDING AND DISPLAYING DEVICE FOR STORE-SHELVES. WILLIAM F. BLANCHARD, Denver, Colo. Filed Apr. 20, 1920. Serial No. 375,371. 1 Claim. (Cl. 40—11.)

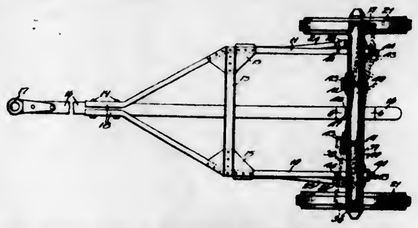


The combination with a shelf, of a thin resilient metal angle bar, made up of wings of unequal width, the narrower wing being provided with holes through which screws are passed to secure said wing to the under side of the shelf; the wider wing of said angle bar extending parallel with the front edge of said shelf, and being bent inwardly upon itself to form a resilient lip which diverges from the wing from the bending point of the said lip to its longitudinal edge, which is slightly spaced from the said front edge of the shelf, said resilient lip acting in conjunction with the front edge of the shelf to hold price cards inserted therebetween.

1,390,428. POLE-TRAILER. ORRA E. BYRON, Chicago, Ill., assignor to Lee Trailer & Body Co., Chicago, Ill. Filed Oct. 31, 1918. Serial No. 260,487. 2 Claims. (Cl. 280—33.4.)

1. A vehicle of the character described comprising an axle, wheels therefor, a bolster, a transversely mounted

spring connected to the axle and supporting said bolster centrally thereof, whereby said bolster is adapted to have a lateral yielding tilting movement in a vertical plane, cushion springs mounted on said axle and being spaced from said bolster to act as spring stops to yieldingly limit the lateral movement of said bolster, a pole carriage piv-



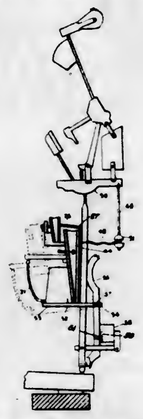
otally mounted on said bolster and adapted to swing in a horizontal plane and stops carried by said bolster for limiting the pivotal movement of the carriage in said horizontal plane whereby said pole carriage has a combined yieldingly limited transverse tilting movement in a vertical plane and a limited pivotal movement about a vertical axis relatively to said axle.

1,390,429. ELECTRODE. JOSEPH STANLEY CAPE, Detroit, Mich. Filed Nov. 5, 1919. Serial No. 335,881. 5 Claims. (Cl. 174—89.)



1. In a high frequency electro-therapeutic apparatus, an electrode comprising a vacuum tube constructed of dielectric material and a conductor of aluminum forming a coil substantially filling and contacting the interior walls of the tube.

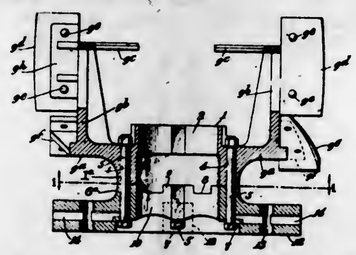
1,390,430. PNEUMATIC PLAYER-PIANO ACTION. FRANK DATHAN, Oakland, Calif. Filed Oct. 23, 1917. Serial No. 198,053. 6 Claims. (Cl. 84—60.)



1. An improvement in player pianos comprising striker pneumatics and means for operating the same, a wippen, an operating wire attached thereto, and a single integral flexible means secured at one end to said wire and connected at the other end with one wall of said pneumatic,

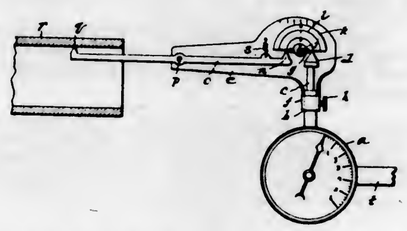
3. An improvement in player pianos comprising a master valve chest and pneumatics supported thereby, a shelf on which said valve chest is superposed, pivotal supporting means for said shelf, and means for normally preventing pivotal movement of the shelf.

1,390,431. PULVERIZER-MILL YOKE. ERNEST H. DIMLER, South Bethlehem, Pa., assignor to Bethlehem Foundry & Machine Co., South Bethlehem, Pa. Filed Apr. 17, 1918. Serial No. 229,097. 2 Claims. (Cl. 83—45.)



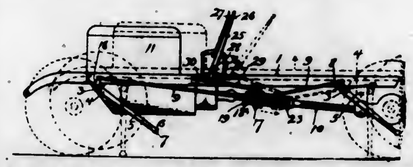
2. In combination, a pusher member having a central body formed to fit around a driving member and outwardly directed arms, and a separate fan center having means for supporting a plurality of fan blades, said fan center also having a central body formed to fit around said driving member, said fan center being located above said pusher member.

1,390,432. GAGE. HARRY B. DOUGLASS, Detroit, Mich. Filed May 24, 1919. Serial No. 299,541. 4 Claims. (Cl. 33—172.)



1. An instrument for the purpose specified, having in combination, an indicator provided with an indicator stem, a carrier which can be secured to the indicator, a lever pivoted on the carrier for contacting the work, and a motion converting member fixable at various positions along the carrier and provided with unit markings thereon, the said motion converting member adapted to engage both the stem and lever on the said unit markings to fix a definite multiplying ratio between the lever and the indicator stem.

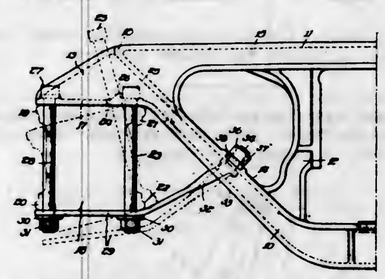
1,390,433. AUTOMOBILE ATTACHMENT. CHARLES M. EIERMANN, New York, N. Y. Filed Oct. 11, 1920. Serial No. 415,995. 7 Claims. (Cl. 254—86.)



1. In a device of the class described the combination with an automobile having power driving means and a

transmission shaft, of a plurality of pivotal members carried by the automobile and adapted to bodily raise the automobile and to support it in an elevated position and means mounted on said transmission shaft for operating said raising means.

1,390,434. SIDE FRAME AND TIE-BAR CONNECTION. GEORGE G. FLOYD, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 8, 1920. Serial No. 372,223. 3 Claims. (Cl. 105—221.)

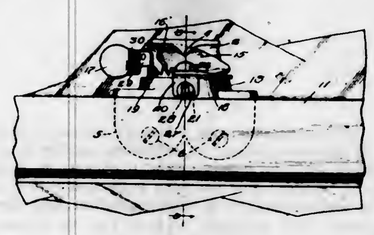


1. In combination, a truck side frame having a journal box receiving flange with an elongated slot therein whereby a securing bolt may be passed therethrough at an inclined angle, a journal box receiving said bolt in an inclined position after which the bolt and box may be moved into normal position, a tie bar connected to said box and having a threaded end, and a nut for engaging said threaded end for securing the tie bar to the side frame.

1,390,435. PROCESS OF PREPARING PLASTIC MOLDING MATERIAL. OSCAR GERLACH, Danville, and CHRISTIAN B. LIEHME, Chicago, Ill., assignors to The Industrial Research Laboratories, a Corporation of Illinois. Filed Dec. 15, 1917. Serial No. 207,219. 3 Claims. (Cl. 106—35.)

1. The process of aging materials to be used for molding purposes which comprises mixing with the material an acid solution containing sulfite liquor which acts immediately to impart to the material a plasticity such as obtained by allowing the material to stand in a damp condition for a long period of time.

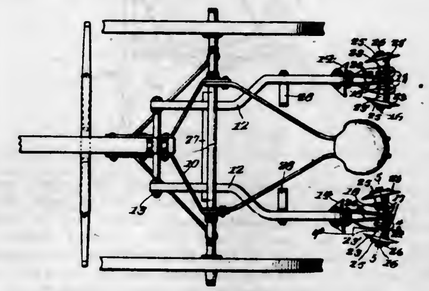
1,390,436. SASH-LOCK. WILLIAM HARLEY, Jr., Oak Park, Ill. Filed Mar. 30, 1918. Serial No. 225,782. 7 Claims. (Cl. 292—210.)



1. In a sash lock, a latch comprising a rotatable member, a supporting base for attachment to the sash, and means for adjustably mounting the member in the base.

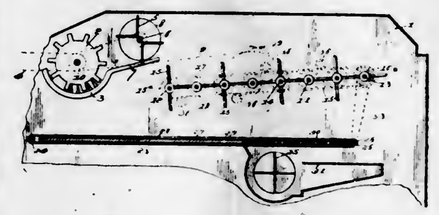
7. The combination with an upper and lower window sash, of a catch affixed to the upper sash, and a latch for the lower sash and comprising a supporting member rigidly attached thereto, a pivoted latching member, means for adjusting the latching member in the supporting member toward and from the catch, and locking means comprising a pawl attached to the latching member, and locking teeth engaged thereby as the latching member is rotated in a direction to engage the catch, preventing the reverse rotation of the latching member until the pawl is manually raised.

1,390,437. FURROW-OPENER. JOSEPH A. HARRIS, Palmyra, Nebr. Filed Feb. 28, 1921. Serial No. 448,742. 2 Claims. (Cl. 97—92.)



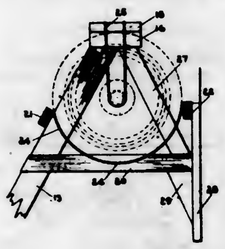
1. A furrow forming device comprising a beam, a shovel on the beam, a transversely extending and rearwardly bowed shaft supported on the beam rearwardly of the shovel, and cutting disks on the ends of the shaft.

1,390,438. ROTARY CLEANER-CARRIER. ROBERT C. HIMMEL, Topeka, Ill. Filed Sept. 11, 1920. Serial No. 409,594. 2 Claims. (Cl. 130—23.)



1. In a machine for the purpose indicated, a casing having a separator chamber, a threshing cylinder and beater in the forwaard part thereof and including means for driving the latter from the former, a rotary grain pan having its forward end under the cylinder and the beater with its remaining portion extending rearwardly to carry the grain from the cylinder to the rear, a cleaner-carrier with its forward end operable partially under the beater and having its remaining portion inclined slightly upwardly and extending rearward, said cleaner-carrier being disposed over the greater part of the rotary grain pan, said cleaner-carrier comprising a series of shafts arranged in parallelism, each shaft being disposed on a slightly increased higher plane toward the rear of the chamber thereby inclining the cleaner-carrier, cleaner carrier arms arranged in series on each shaft, each series comprising a plurality of groups, the arms adapted to intermesh, said arms being sharpened on certain of their edges in directions with the rotation of the shafts, the outer portions of the edges being rounded off, the sharpened edges extending over the rounded portions of the arms, means for driving the shafts simultaneously in the same direction, and means operatively connecting the shafts and the thresher and the beater for transmitting motion thereto, and means for operatively connecting between the carrier and the rotary grain pan.

1,390,439. DECKING SYSTEM. EDWARD HOLMES, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Feb. 7, 1921. Serial No. 443,313. 10 Claims. (Cl. 105—368.)



1. A means for packing automobiles in freight cars comprising four supporting frames, two at each side, transverse rails supported on said frames, one in front and one in the rear of each wheel, a wheel hammock slung from each pair of rails to conform to and support the wheel, and a stirrup extending beneath the axle, the upper ends of the stirrup being secured to said frame.

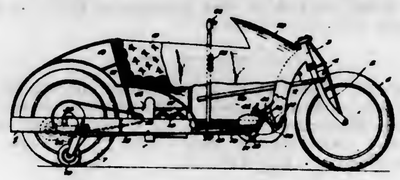
1,390,440. CUTTING AND WELDING TORCH. CHARLES F. HUMMEL, Roselle Park, N. J. Filed Apr. 12, 1920. Serial No. 373,135. 3 Claims. (Cl. 158—27.4.)



1. A gas torch for cutting and welding metals, comprising a head provided with a tapered chamber, a grooved tapered plug located within said chamber, a gas supply-pipe secured in the end of said head, an independent apertured disk provided with grooves located in the end of said gas supply-pipe, and a second gas supply-pipe of smaller diameter passing through the entire length of the first named gas supply-pipe and through said apertured disk and projecting into the outer-most end of said tapered plug.

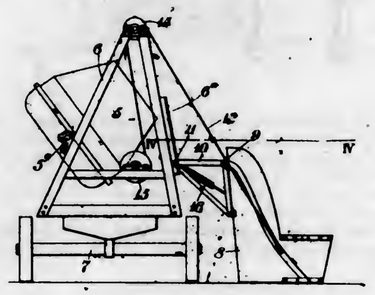
1,390,441. MOTOR-VEHICLE. EVERETT BANFIELD JACKSON, Colorado Springs, Colo. Filed Aug. 8, 1919. Serial No. 316,232. 1 Claim. (Cl. 208—114.)

A motor vehicle comprising a body and pair of wheels journaled on the body in longitudinal alinement thereof, said body having a seat between the wheels, a fork comprising a body journaled on the vehicle body and arms between which the front wheel is journaled, levers pivoted



to the vehicle, and links connecting the levers with the arms of the fork for swinging said fork.

1,390,442. CONCRETE-MIXER. GERHARD JAEGER, Columbus, Ohio. Filed Nov. 28, 1919. Serial No. 341,028. 3 Claims. (Cl. 214—130.)



1. The combination with a mixing vessel, a frame for supporting the same, of a bucket for the materials to be mixed, a link hingedly connected with both the bucket and frame, means for elevating both the bucket and the link, and means for arresting the upward movement of the link when the bucket and the link are raised without arresting the upward movement of the bucket.

1,390,443. BEARING-LUBRICATOR. JOHN T. JANETTE, Chicago, Ill. Filed Nov. 8, 1920. Serial No. 422,609. 3 Claims. (Cl. 64—24.)

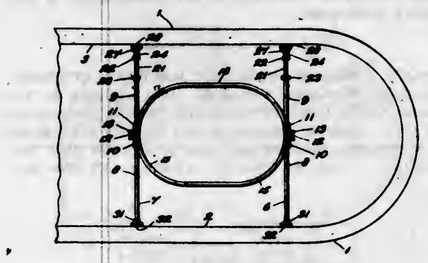


2. The combination with a bearing having a threaded hole in the side thereof, of a bushing having a hole in alinement with the threaded hole, a wick guide engaging with the threaded hole having a projection fitting in the hole in said bushing, an oil cup opening into said threaded hole, and a wick extending up from the cup through the wick guide.

1,390,444. SUPPORT FOR INFANTS' BATHTUBS. SELMA W. JEFFS, Santa Monica, Calif. Filed June 13, 1921. Serial No. 477,095. 4 Claims. (Cl. 4—27.)

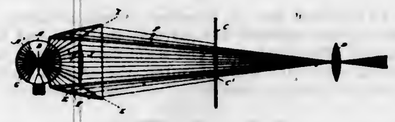
1. In a device of the class described the combination of a plurality of transverse supporting members adapted to engage the sides of a bath tub; a plurality of longitudinal

members extending between said transverse members and adapted to support a smaller tub; and connections rigidly



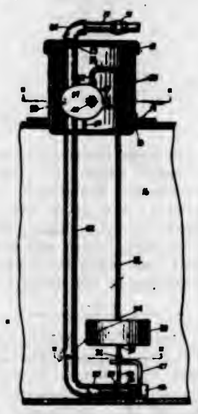
securing said longitudinal members to said transverse members, and pivotally connecting said transverse members together in pairs, substantially as described.

1,390,445. PRODUCING LIGHT-BEAMS. CHARLES FRANCIS JENKINS, Washington, D. C. Filed Apr. 16, 1918. Serial No. 228,891. 1 Claim. (Cl. 240—41.)



The combination with a spherical electric light bulb, of an open approximately parabolic tubular reflector in position to receive rays from the bulb and focus them approximately at a distant projecting lens, a plate interposed in the light beam and provided with an exposure aperture therefor, and a lens in the axis of the beam in position to receive the rays directed centrally out of the larger end of the tubular reflector and adapted to focus them approximately at the projecting lens, said bulb being provided on the side most distant from the tubular reflector with a spherical reflecting surface.

1,390,446. FUEL-RESERVE-SUPPLY SYSTEM. FRANCIS JERDONE, Jr., Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed May 31, 1919. Serial No. 300,981. 21 Claims. (Cl. 158—46.5.)



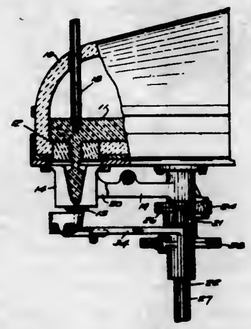
1. A fuel control device comprising a casing adapted to be connected with a fuel supply tank, a tube connected with said casing and adapted to be extended into the tank, a float controlled valve adapted to automatically close said tube when the fuel in the tank is reduced to a predetermined amount and means rotatable in said casing to effect the opening of the valve, said means being arranged to automatically return to normal position when the fuel in the tank is increased above said pre-determined amount.

1,390,447. GUN-BARREL-MUZZLE STEADIER. MILLARD L. JOHNSTON, Utica, N. Y. Filed Sept. 21, 1918. Serial No. 255,165. 19 Claims. (Cl. 89—42.)



1. In a gun barrel muzzle steadier, continuous walled depending means connected with the muzzle of said barrel, said means having a chamber and a vent above said chamber whereby the tendency of the muzzle to jump upward is counteracted.

1,390,448. APPARATUS FOR MANIPULATING HOT GLASS. RICHARD LA FRANCE, Toledo, Ohio, assignor to The Owens Bottle Machine Company, Toledo, Ohio, a Corporation of Ohio. Filed Mar. 20, 1918. Serial No. 223,548. 18 Claims. (Cl. 49—55.)



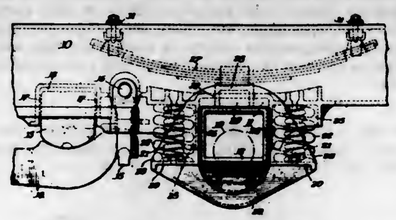
15. The combination with a sectional cup in which a flowing stream of glass accumulates to form a gob, of means to separate the cup sections to drop the gob, a cutter arranged to bear against the bottom surface of the cup and slidable thereon to sever the gob, and means to hold the cutter with a yielding pressure against the bottom of the cup.

18. The combination of a tank having a flow opening, means forming a passageway through which the glass flows from said opening, means to periodically restrict the passageway at one point, and means to sever the glass, said restriction being sufficient to prevent a continued flow of glass therethrough after it is severed.

1,390,449. CAR-TRUCK CONSTRUCTION. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 25, 1921. Serial No. 464,113. 5 Claims. (Cl. 105—213.)

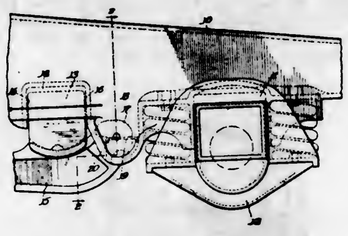
5. In a railway car truck, the combination of a side frame having depending spring pockets and an opening intermediate same, a journal box having a main journal receiving portion, laterally extending brackets projecting therefrom, and a platform extending upwardly through

said side frame opening, springs mounted on said brackets and located within the spring pockets of said side frame



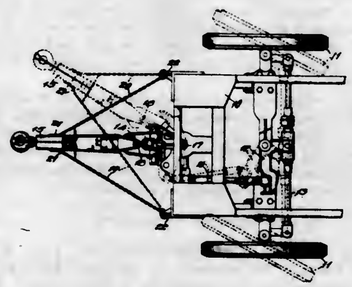
and another spring mounted on said platform and interposed btween the latter and side frame whereby the dead and live loads and shocks are absorbed.

1,390,450. RAILWAY-CAR-TRUCK CONSTRUCTION. JOHN A. LAMONT, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed Apr. 25, 1921. Serial No. 464,114. 5 Claims. (Cl. 105—195.)



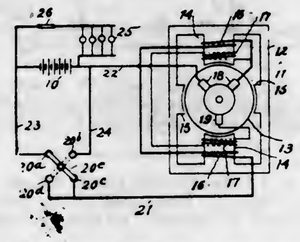
3. In a railway car truck, the combination of a side frame having a bracket, an equalizing lever slidably mounted on said bracket for permitting longitudinal movement of said equalizing lever with respect to said side frame to prevent shocks incident to starting and stopping of the car being taken by said lever.

1,390,451. DRAWBAR MECHANISM. ALBERT P. LEE, Chicago, Ill., assignor to Lee Trailer & Body Company, Chicago, Ill. Filed June 23, 1919. Serial No. 306,201. 3 Claims. (Cl. 280—33.5.)



1. A trailer of the character described having a framework, wheels therefor, means including a draw bar associated with said framework for steering said wheels, said draw bar having a predetermined radius of action, and flexible tension means operable when said draw bar is at the limit of its stroke for transferring the force of additional sidewise pull between a portion of said steering mechanism forwardly of its pivotal point and a portion of the framework sidewardly of the pivotal point of said steering mechanism.

1,390,452. DYNAMO-ELECTRIC-MACHINE CONTROL. BENNETT M. LEECH, Cleveland, Ohio, assignor to The Leece-Neville Company, Cleveland, Ohio, a Corporation of Ohio. Original application filed Dec. 22, 1913, Serial No. 808,064. Divided and this application filed Nov. 23, 1918. Serial No. 263,851. 6 Claims. (Cl. 290—31.)



1. In a system such as described, a storage battery, a dynamo electric machine for charging the same and provided with differential series and shunt field windings, and switching means for short circuiting the dynamo electric machine and disconnecting the latter from the battery.

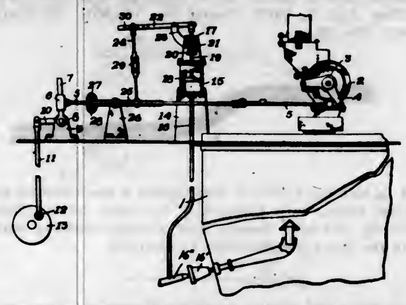
1,390,453. PUMP. MADISON M. LIFF, Los Angeles, Calif. Filed Mar. 19, 1920. Serial No. 367,066. 5 Claims. (Cl. 103—60.)



1. A pump of the class described comprising a pump barrel, a plunger barrel within the same, a pump rod, clutch means for connecting the same to the plunger barrel, a valve located at the lower end of the plunger barrel, packing means for said plunger barrel, a valve at the lower end of the pump barrel, and means for moving both valves off their seats when the plunger barrel is released from the pump rod by the clutch means.

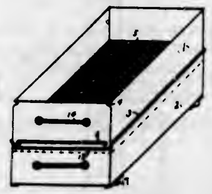
1,390,454. GAS-PRODUCER-REGULATING MECHANISM. CHARLES W. LUMMIS, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a Corporation of Massachusetts. Filed July 31, 1918. Serial No. 247,574. 10 Claims. (Cl. 48—86.)

1. In apparatus of the class described, a gas producer having a steam actuated device for delivering a blast of air and steam to the fuel bed, a mechanically actuated fuel feeding mechanism for said producer, means controlled



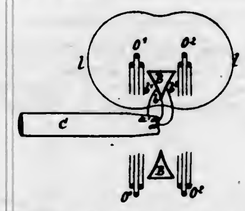
by the steam pressure acting on said blast devices for varying the rate of feed of said feeding mechanism, and means for manually adjusting said rate of feed.

1,390,455. ASH-PAN. WILLIAM J. MCCOLLOM, Clifton, N. J. Filed Apr. 9, 1920. Serial No. 372,557. 1 Claim. (Cl. 83—60.)



An ash sifter consisting of a lower receptacle and an upper receptacle adapted to be seated in the upper part of said lower receptacle, a sieve in the lower part of said upper receptacle, similar slideways, one at the top of said upper receptacle and another in the bottom of said upper receptacle below said sieve, and an imperforated slide adapted to fit and slide in either of said slideways.

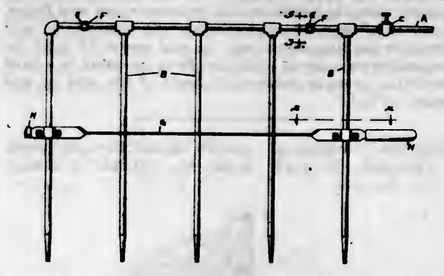
1,390,456. ELECTRIC-ARC LAMP WITH ROTARY ARC. LOUIS MAUCLAIRE, ANDRÉ GARBARINI, and GEORGES GAUTIER, Paris, France. Filed Oct. 23, 1917. Serial No. 198,170. 8 Claims. (Cl. 176—51.)



1. An arc lamp of the revolving arc type comprising a central carbon electrode and a surrounding annular electrode, and two separated solenoids whereby the rotating arc is stabilised, said solenoids being substantially concentric with the axis of said central electrode.

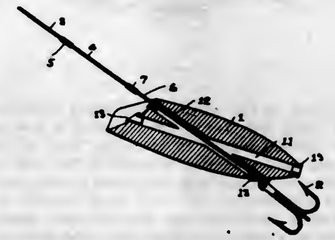
1,390,457. APPARATUS FOR THAWING FROZEN GROUND. WILLIAM E. MORAN, Detroit, Mich. Filed Mar. 13, 1920. Serial No. 365,391. 3 Claims. (Cl. 61—36.)

1. In combination with a common connection to a source of steam supply, a plurality of nozzle members projecting laterally therefrom in substantially parallel relation, a valve controlling the flow of steam to said nozzles, means adjustably located intermediate the length of the nozzle members for maintaining their discharge ends in substantial alinement one with another, and handle members de-



tachably secured to that portion of the pipe connection from which said nozzle members project, for guiding the discharge ends of the nozzles along the line of earth to be thawed.

1,390,458. FISH-LURE. EDWARD A. MOREE, New York, N. Y. Filed Dec. 15, 1920. Serial No. 430,832. 6 Claims. (Cl. 43—46.)



6. A fish lure comprising a cylindrical waterproof buoyant body having a bore therethrough coinciding with the longitudinal axis of said body and another bore at an angle to the first bore and intersecting the same, said body also having one end tapered and the other end provided with an inclined concaved surface for causing said body to dive, the axis of said concaved surface being at an angle to the longitudinal axis of said body, eyelets in the ends of said bores, a wire snell held in one of said bores and swivelly connected to a fishing line, and a hook attached to the other end of said snell and normally held in contact with said body and capable of movement away from said body.

1,390,459. ILLUMINATED REFLECTING-SIGN. CHARLES W. RAINKE, Brooklyn, N. Y. Filed June 30, 1921. Serial No. 481,574. 2 Claims. (Cl. 40—130.)



1. A device of the class described comprising a frame, a wall rising from said frame and inclosing the form of a

letter or the like, a plurality of spaced apart reflector elements mounted on said frame within said wall, said wall extending to a distance from said frame slightly greater than the height of said elements above said frame, a source of light situated substantially centrally of said letter or the like, and means on said source of light for preventing issuance of light therefrom excepting in a band extending partway between the ends of the axis of said source of light.

1,390,460. WRENCH. SIGURD ROOD, Tacoma, Wash. Filed May 18, 1920. Serial No. 382,323. 2 Claims. (Cl. 81—89.)



1. A wrench of the character described comprising a channeled shank provided at one end with a jaw having a tapered opening therein in alinement with the shank channel, and having another opening in the base of the channel adjacent the jaw, a second shank slidably mounted in the first said opening adapted to pivot hingedly in said opening and to be moved into and from the channel of the first shank, a jaw at the outer end of the second shank located coöperatively with respect to the first jaw; said jaws to be opened apart at their outer ends by the moving apart of the said shanks, a locking block slidably mounted in the second said shank opening and extending into the channeled portion thereof and having locking teeth on its inner edge, a spring secured to the channeled shank engaging said block to yieldingly urge it into the channel; said second shank having teeth on the inner edge thereof in opposed relation to the block teeth to engage the latter when the shanks are moved into nested relation to lock the same against longitudinal movement relative to each other.

1,390,461. CASKET-HANDLE. EDWARD R. SARGENT, New Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed May 14, 1920. Serial No. 381,318. 8 Claims. (Cl. 16—112.)



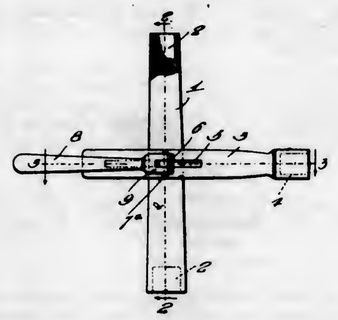
1. In a casket handle, a handle bar, a supporting arm, comprising a soft metal ornamental portion and a strengthening brace, said soft metal portion extending downwardly along the front of the brace then rearwardly along the lower portion of the brace and terminating at a point near the lower portion thereof.

1,390,462. BOOT OR SHOE SOLE. ADDISON T. SAUNDERS, Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J., a Corporation of New Jersey. Filed Aug. 7, 1917. Serial No. 184,951. 13 Claims. (Cl. 36—32.)



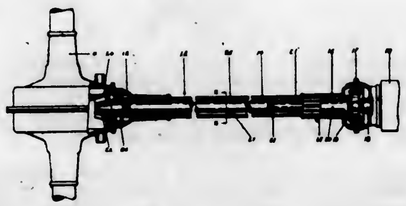
1. A sole for a boot or shoe having a tread and an arch shaped shank, both vulcanized, the shank having fibrous material localized therein, and thereby rendered stiffer than the tread, substantially as described.

1,390,463. FOLDABLE SOCKET-WRENCH. RICHARD C. SCOTT, Chicago, Ill. Filed Apr. 7, 1921. Serial No. 459,459. 1 Claim. (Cl. 81—121.)



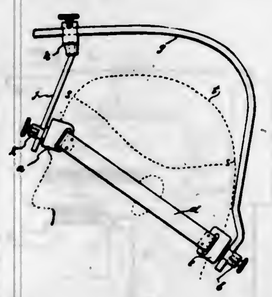
A wrench of the type described comprising a bar having sockets formed in its opposite ends, a second socket-carrying bar formed with an elongated slot, a pivot and connecting pin passing through the center of first-named bar and through slot in the remaining bar, connecting the latter to the former and permitting it to be adjusted, folded against, or arranged at various angular positions with respect to the first bar, and a handle pivoted to the free or extended end of said pin.

1,390,464. PROPELLER-SHAFT MOUNTING. ANTOINE G. SENSTIUS, Toledo, Ohio, assignor to The Willys-Overland Company, Toledo, Ohio, a Corporation of Ohio. Filed Nov. 22, 1918. Serial No. 263,780. 8 Claims. (Cl. 64—12.)



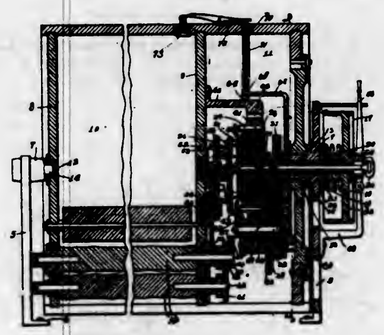
1. In a device of the class described, in combination, a propeller shaft, bearings near the ends thereof, and means supported independently of the shaft intermediate the bearings for preventing whipping of the propeller shaft.

1,390,465. HAIR-CUTTING GAGE. CARL R. SHAFER, Detroit, Mich. Filed Feb. 2, 1921. Serial No. 441,750. 8 Claims. (Cl. 132—45.)



7. In a hair-cutting gage, the combination of a pair of plates, one fitted to the front of the head, the other to the back of the head, a pair of straps connecting the same, a yoke supported upon said plates and movable transversely of the head by its ends being adjustable along the plates.

1,390,466. CHURN AND BUTTER-WORKER. HENRY J. SMITH, Minneapolis, Minn. Filed July 26, 1920. Serial No. 398,991. 3 Claims. (Cl. 31—25.)



1. In a churn, supporting legs, a drum supported by the supporting legs, a partition disposed within the drum for partitioning the drum into a gear casing, an arm having connection with the partition, a gear having internal teeth formed integral with the arm, means including friction disks for causing the operation of the gear and drum, butter working rolls supported within the churning compartment, a pinion having connection with each of the butter working rolls, a pinion supported centrally of the partition and causing the operation of the pinions of the butter working rolls, and means for holding the pinion supported centrally of the partition member stationary, to cause the operation of the butter working rolls.

2. In a churn, supporting legs, a revolving drum mounted on the legs, a partition within the drum and dividing the drum into a gearing compartment and a butter working compartment, a gear having a flange for securing the gear to the partition, an operating shaft, a bracket member movable on the shaft and carrying an elongated gear, means for moving the elongated gear into and out of operation, butter working rolls within the butter working compartment, and means for automatically releasing gas from the butter working compartment.

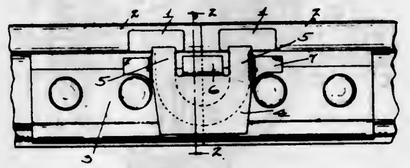
3. In a churn, supporting legs, a revolving drum mounted on the legs, means for partitioning the drum into a gearing compartment, and a butter working compartment, gearing within the gearing compartment for rotating the drum, butter working rolls within the butter working compartment, gearing for operating the butter working rolls, means for throwing the first mentioned gear into operation to cause the rotation of the drum, said means adapted to throw the butter working rolls into operation, when the rotation of the drum has ceased, and means for exhausting gas from the butter working compartment.

1,390,467. VEHICLE-TIRE. JOHN O. SMITH, Cleveland, Ohio. Filed Sept. 10, 1919. Serial No. 322,939. 4 Claims. (Cl. 152—5.)



3. A core for tires comprising a yieldable annular body formed in one piece and provided with a central passageway extending lengthwise of the body, a spiral web bridging said passageway and integral with the body, and a plurality of passageways between the first-named passageway and the periphery of the core.

1,390,468. RAIL-BOND PROTECTOR. MARK T. STANTON, Cleveland Heights, Ohio, assignor to The Electric Railway Improvement Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 31, 1917. Serial No. 171,972. 5 Claims. (Cl. 173—262.)

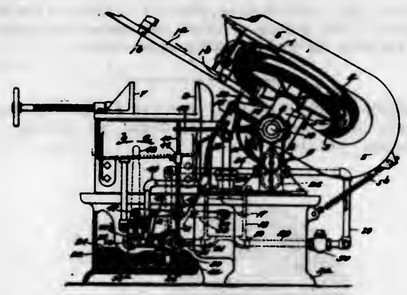


3. The combination with two abutting rail ends, a fishplate connecting the same and a bond having its terminals attached to the heads of said rails, and its body portion extending downwardly therefrom in U-shape adjacent to said fishplate, of a roughly U-shaped protector plate formed to cover the body portion of said bond when disposed adjacent thereto and provided with extensions integrally joined to said fishplate above and below and on either side of the body portion of said bond.

1,390,469. OPERATING DEVICE FOR MATERIAL-WORKING MACHINES. BYRON F. STOWELL, Springfield, Mass., assignor, by mesne assignments, to Metal Saw & Machine Co., Inc., Springfield, Mass., a Corporation of Massachusetts. Filed Sept. 22, 1919. Serial No. 325,433. 46 Claims. (Cl. 29—68.)

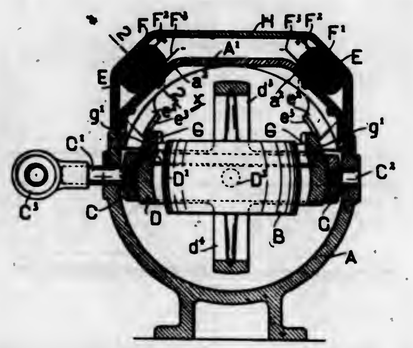
1. A material working machine having therein an implement for working on the material, means to support the implement, means for actuating said implement, means

to support the material, a motor acting on one of said supports to cause relative motion between the implement and the material and means operative for energizing said motor independently of the actuation of the implement.



1,390,470. [WITHDRAWN.]

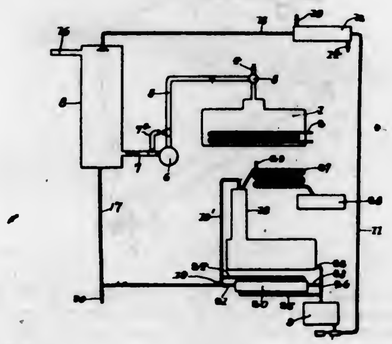
1,390,471. GYROSCOPIC STABILIZER. HERMANN SUNDHAUSSEN, Essen, Germany, assignor to Fried. Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Filed Sept. 3, 1920. Serial No. 408,085. 5 Claims. (Cl. 33—46.)



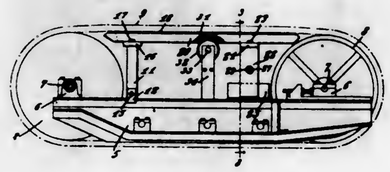
1. An apparatus of the class described which comprises a gyroscope, a Cardan suspension therefor, a body to be stabilized operatively connected to said gyroscope, a stationary casing, spaced electro-magnets carried by said casing, armatures carried by the Cardan suspension and means for energizing said electro-magnets, for exerting a turning movement to the gyroscope which will cause an adjustment of the body to be stabilized.

1,390,472. MANUFACTURE OF GASOLENE. GEORGE H. TABER, Jr., Pittsburgh, Pa., assignor to Gulf Refining Company, Pittsburgh, Pa., a Corporation of Texas. Filed Apr. 6, 1917. Serial No. 160,186. 2 Claims. (Cl. 196—25.)

1. The process of recovering gasolene which comprises weathering casinghead gasolene to produce vapors of mixed relatively light and relatively heavy gasolene, regaining the heavy constituents of such vapors in solution in a heavier mineral oil, subsequently separating such heavier vapors from such mineral oil by distillation, and blending therewith another mineral oil.



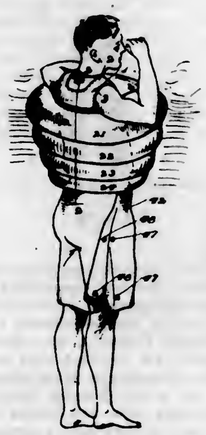
1,390,473. SUPPORT FOR ENDLESS TRACKS. JAMES H. THOMPSON, Harrisonville, Mo. Filed Sept. 2, 1919. Serial No. 321,061. 3 Claims. (Cl. 305—9.)



1. In combination with the frame of a creeper tractor and the supporting wheels and endless driving element thereof, a support for the upper portion of the endless driving element, said support including a trough like member, over which the endless driving element operates, an inverted V-shaped member secured to the frame, spaced supporting arms having their upper ends connected with the trough like member, the lower ends thereof engaging the inverted V-shaped member, and means carried by the arms for causing the lower ends of the arms to move over the inverted V-shaped member for causing a vertical adjustment of the trough like member.

1,390,474. LIFE-PRESERVER. WILEY P. TIBBITS, Charleston, S. C. Filed May 25, 1920. Serial No. 384,052. 3 Claims. (Cl. 9—20.)

1. In a device of the class described, a garment provided with an open front and having the side portions of its front adapted to be overlapped to a greater or less extent, closing means upon the overlapping side of the front, a plurality of closing means upon the overlapped side of the front spaced at varying distances from the edge of the said side, and an inflatable air chamber extending circumferentially of the garment.



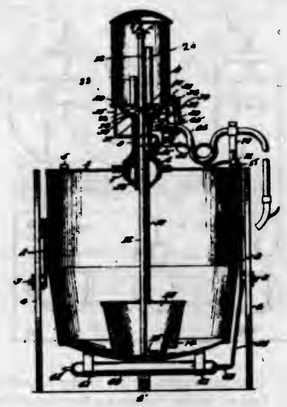
1,390,475. SAFETY MEDICINE-SPOON. HUBERT TOLER, Sweetwater, Tex. Filed May 24, 1920. Serial No. 383,864. 1 Claim. (Cl. 30—22.)



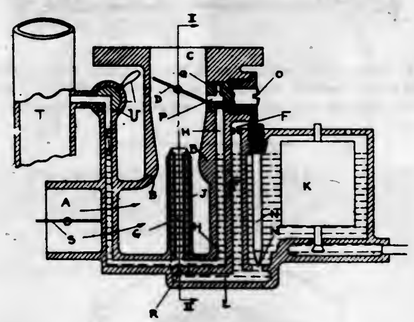
In a medicine spoon, the combination with a bowl portion and a handle portion therefor, of a snugly fitting cover plate normally closing said bowl portion and having an operating handle overlying the handle portion of the spoon, a shoulder formed at the juncture of the bowl portion and the handle portion thereof and having its horizontal wall continuous with the top edge of the bowl portion to provide a supporting surface for the cover plate at this point, a removable pin hingedly securing said cover plate and its operating handle in position, and a coiled spring disposed between the operating handle of said cover plate and the handle portion of the spoon for holding the former in normally closed position on the latter.

1,390,476. PORTABLE LIQUID-DISPENSER. WILLIAM S. TOWNSEND, Washington, D. C. Filed Aug. 24, 1920. Serial No. 405,732. 23 Claims. (Cl. 221—100.)

1. A liquid dispenser comprising a main tank, a measuring container or vessel, a universal joint connecting the lower end of the container with the top of the main tank, means for supplying the container from the main tank, and means for discharging the contents of the container.



1,390,477. CARBURETER. RAYMOND M. ANDERSON, Detroit, Mich., assignor to George M. Holley, Detroit, Mich. Filed Apr. 8, 1920. Serial No. 372,323. 2 Claims. (Cl. 261—41.)

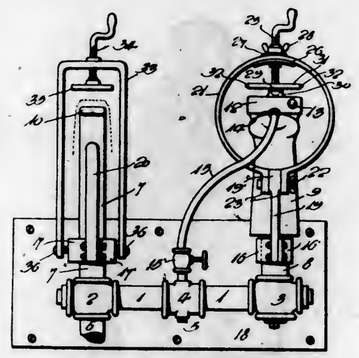


2. In a carbureter, a main air passage, a throttle valve, a main fuel nozzle delivering into said main air passage on the atmospheric side of said throttle, a constant level reservoir having a regulable outlet, a passage connecting said reservoir outlet and said fuel nozzle, a low speed fuel outlet slightly in advance of the throttle valve, an auxiliary air passage connecting the main outlet from said main fuel nozzle and the low speed fuel outlet and an auxiliary fuel orifice delivering fuel from the main nozzle into said auxiliary passage between the main outlet from said nozzle and the low speed fuel outlet.

1,390,478. RUBBER-SHOE-VULCANIZING MACHINE. JOHN MALIN ARTHUR, New Woodstock, N. Y., assignor of one-half to James W. Arthur, Akron, Ohio. Filed Mar. 2, 1921. Serial No. 448,975. 4 Claims. (Cl. 18—17.)

1. A shoe vulcanizing outfit comprising a hollow steam heated pedestal, a support for said pedestal, a carrier pivotally connected with said support and extending about the upper portion of said pedestal and having

movement longitudinally of the upper portion of the pedestal, and clamping means adjustably carried by said



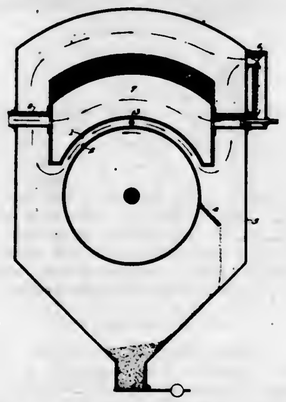
carrier for movement transversely of the upper portion of said pedestal, and at right angles to the movement of said carrier when the carrier is adjusted.

1,390,479. PAVING APPARATUS. ROBERT D. BAKER, Detroit, Mich. Filed Apr. 6, 1914. Serial No. 830,001. 30 Claims. (Cl. 94—45.)



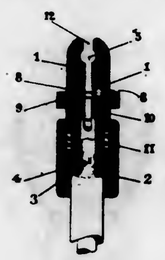
8. In a paving apparatus, a frame, and a reciprocating surfacing member mounted upon said frame for movement and having an arched surfacing face variable in radius.

1,390,480. MANUFACTURE OF CARBON-BLACK AND OTHER SOLID REACTION PRODUCTS. WILDER D. BANCROFT, Ithaca, N. Y. Filed Jan. 3, 1920. Serial No. 349,138. 3 Claims. (Cl. 134—65.)



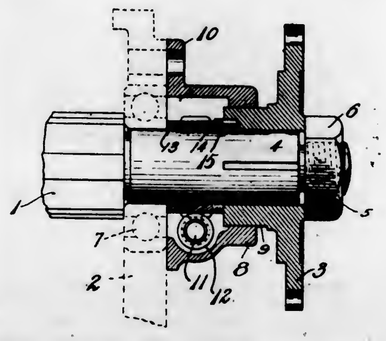
1. Process of removing a finely divided reaction product from a reaction zone, comprising maintaining in proximity to said reaction zone a temperature-gradient sufficient to effect a transfer of a material proportion of the solid product to a cooler zone, and collecting said solid product.

1,390,481. ELECTRICAL CONNECTOR FOR ENGINE SPARK-PLUGS AND OTHER PURPOSES. VICTOR BARDIN, St.-Denis, France. Filed Apr. 16, 1919. Serial No. 290,525. 2 Claims. (Cl. 173—269.)



1. A device for connecting electrically an electric conductor to a contact terminal, comprising in combination a sleeve of insulating material having an internal shoulder in the bore thereof, said bore having a smooth portion and a screw threaded portion, a bifurcated metal member the limbs of which are provided with an exterior bevel surface, said device having a screw threaded shank cooperating with the screw threaded portion of said bore, a ring encircling said limbs and formed with an interior bevel surface coacting with said exterior bevel surface, said ring having an extension thereon fitting slidably in the smooth portion of said bore, and a spring located in said bore between the inner end of said ring extension and said shoulder.

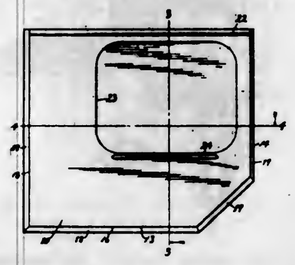
1,390,482. OPERATING CONNECTION. WALTER J. BAUMGARTNER, Brooklyn, N. Y., assignor to Duplex Engine Governor Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 20, 1919. Serial No. 305,567. 5 Claims. (Cl. 64—21.)



3. The combination of a casing, a shaft mounted in said casing and projecting therefrom, a gear loosely mounted on the shaft, a housing inclosing the gear, a coupling rigid with the shaft and having a hub extending into the housing, said hub engaging the gear to rotate the same, and a second gear to be actuated by said first-named gear in said housing.

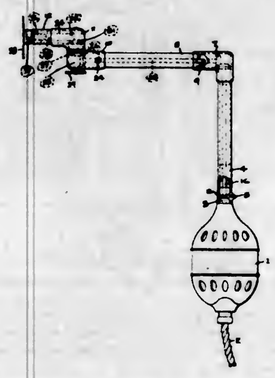
1,390,483. CAB-DOOR. KENNETH S. BAXTER, Michigan City, Ind., assignor to Sheet Steel Products Company, Michigan City, Ind., a Corporation of Indiana. Filed Oct. 15, 1920. Serial No. 417,109. 2 Claims. (Cl. 296—44.)

1. A frameless sheet metal half-door comprising, in combination, two sheet metal panels constituting respectively the inner and outer faces of the door, flanges on the two side edges and on the bottom edge of the inner panel parallel with but offset from the plane of the body of the inner panel and lying against the inner face of the outer panel, the corresponding margins of the outer panel being folded about said flanges and forming therewith an inwardly facing stop engaging shoulder comprising three thicknesses of metal extending about the said three sides of the door adjacent the plane of the outer face of the door, and a stiffening rib extending across the top of the door upon the inside face of the same produced by folding the upper marginal portion of the inner panel outwardly and downwardly and folding the upper marginal portion of the outer panel



inwardly to the plane of the inner panel thence downwardly to meet the folded upper edge of the inner panel and finally outwardly and upwardly substantially to the plane of the upper edge of the door, the said outwardly and downwardly folded portion of the inner panel and the said outwardly and upwardly folded portion of the outer panel respectively providing downwardly and upwardly facing parallel channels extending throughout the width of the door, and a locking strip covering the said meeting folded edges of the outer and inner panels throughout the width of the door, the longitudinal edges of the locking strip being inwardly folded upon the body of the strip and entering the said downwardly and upwardly facing channels respectively.

1,390,484. UNIVERSAL SHAFT. WILLIAM L. BELL, Oakland, Calif. Filed Nov. 20, 1919. Serial No. 339,503. 2 Claims. (Cl. 64—92.)



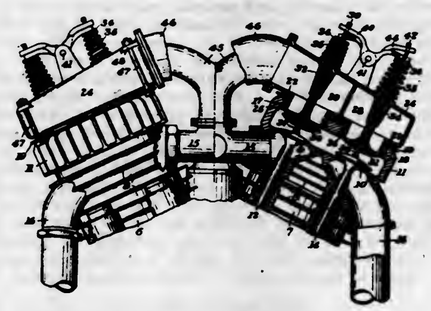
2. In a device of the class described, a plurality of shaft sections, disposed at right angles to one another, and having their adjacent ends rotatably connected, an elbow for housing each pair of the adjacent ends of the shafts, a pipe section telescoping each of the shafts and having one of its ends rigidly connected to the adjacent elbow, and its other end sliding within the adjacent elbow and having an annular groove formed in its portion within the elbow, and a set screw threaded through each elbow and its inner end adapted to extend within the groove formed in the end of said pipe sections, whereby the one end of said pipe sections is rotatably held.

1,390,485. BOLT. WILLIAM L. BELL, Oakland, Calif. Filed Jan. 28, 1920. Serial No. 354,661. 3 Claims. (Cl. 85—1.)



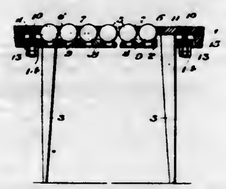
1. A bolt having a threaded portion, a nut on said portion; a reduced shank forming a head; a reduced neck, and a supplemental head slotted to pass said neck and engage said shank contiguous to said head.

1,390,486. INTERNAL-COMBUSTION ENGINE. GEORGE A. BLACK, Franklin, Pa. Filed Nov. 24, 1919, Serial No. 340,264. Renewed Feb. 17, 1921. Serial No. 445,859. 24 Claims. (Cl. 123—85.)



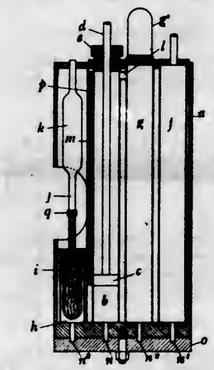
1. An internal combustion engine, comprising a cylinder having exhaust and admission ports, valves for said ports, a cylinder head, supplemental exhaust and admission ports in said head, valves for said ports, and means for actuating said second mentioned valves by said first mentioned valves, substantially as described.

1,390,487. BALL-BEARING TABLE FOR SAWING-MACHINES. ROBERT BLACK and WILBER I. FRANCIS, Evansville, Ind. Filed May 26, 1920. Serial No. 384,314. 3 Claims. (Cl. 143—132.)



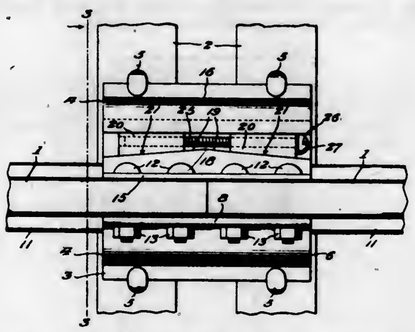
1. A work supporting table for power saws comprising an upper table having ball sockets extending through the upper surface thereof, means supporting said table, an under-table having ball sockets, balls in the sockets of the respective tables and which project above the upper surfaces of the upper table, and means adjustably suspending the under table from the upper table.

1,390,488. ABSORPTION APPARATUS FOR ANALYZING GASES. PERCIVAL RAYMOND BOULTON, Birmingham, England. Filed Apr. 6, 1920. Serial No. 371,702. 1 Claim. (Cl. 23—3.)



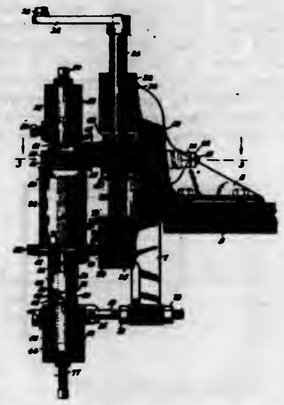
In portable absorption apparatus for analyzing gases, the combination comprising a vertical reciprocatory pump, absorption chamber, and pressure gage chamber, the absorption chamber being permanently open at its upper end to the upper side of the pump and to the gage chamber, a vertical desiccating chamber, a gas inlet at the upper end of the desiccating chamber, a collapsible bulb forming part of a fluid pressure gage in the gage chamber, a vertical gage tube in conjunction with the bulb, a case containing the above mentioned parts, said case being formed with an aperture through which the gage tube is visible, a base formed with passages communicating with the lower ends of the aforesaid chambers and pump, and a rotary valve disk on the underside of the base whereby the lower end of the pump can be connected with the lower end of the desiccating chamber or the absorption chamber, and the gage chamber opened or closed to the atmosphere, substantially as described.

1,390,489. RAILWAY-RAIL JOINT. FRANK R. BOWLBY, Cottonwood Falls, Kans. Filed Dec. 13, 1920. Serial No. 430,265. 4 Claims. (Cl. 238—203.)



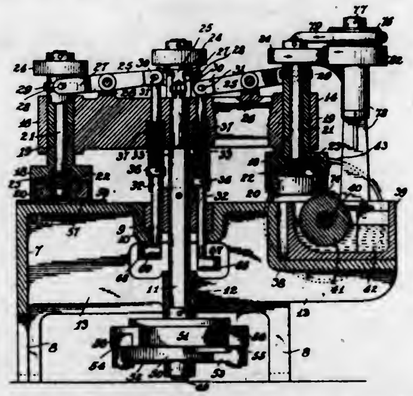
1. In a means for connecting the meeting ends of two railway rails, a chair on which the rails rest, a flange on said chair having its inner surfaces received in the fishing spaces of the rails and also receiving the base flanges of the rails, an angle bar engaging the opposite sides of the rails, an upstanding longitudinal lug on the base of the chair spaced from the angle bar, wedge means between the angle bar and lug, adjusting means for said wedge means, and locking means for said adjusting means.

1,390,490. CAN-HEADING MACHINE. JULIUS BRENZINGER, Fairfield, Conn., assignor to The Max Ams Machine Company, Bridgeport, Conn., a Corporation of New York. Filed Apr. 16, 1919. Serial No. 290,473. 18 Claims. (Cl. 113—23.)



1. In a can heading machine, the combination, with means for rotatively supporting in assembled condition the parts to be joined, said parts having superposed flanges adapted to be intercurled and compressed to form a substantially solid seam, of a seaming roller having compound motion and coöperating with said supporting means to successively perform both the intercurling and the compressing steps of the seaming operation, and means for positively actuating said roller to effect all movements thereof.

1,390,491. CAN-COVER-LINING MACHINE. JULIUS BRENZINGER, Fairfield, Conn. Filed Apr. 22, 1919. Serial No. 291,905. Renewed Jan. 31, 1921. Serial No. 441,454. 26 Claims. (Cl. 113—80.)

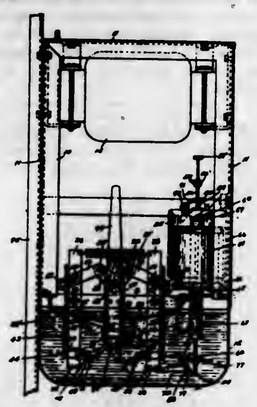


1. In a can-cover lining machine, the combination, with means for forming and holding a gasket of semi-liquid material, of means for subsequently depositing said gasket around the edge of a can-cover.

1,390,492. ELECTRIC SWITCH. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Jr., Brookline, Mass. Filed Oct. 5, 1917. Serial No. 194,974. 39 Claims. (Cl. 200—6.)

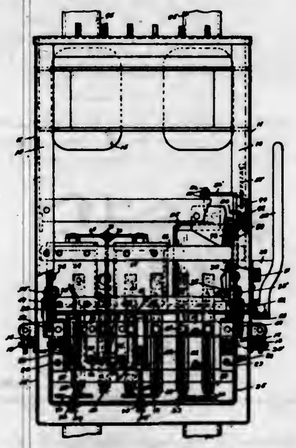
12. A starting device for electric motors comprising a starting switch, a running switch, operating mechanism

for said switches and means connected with one of said switches normally preventing the operation of the other of said switches.



27. A starting device for electric motors comprising a starting switch and a running switch independently operable, current responsive means operable to cause a movement of the running switch from closed position upon a predetermined current flow, and means connected with one of said switches normally restraining said current responsive means from operation.

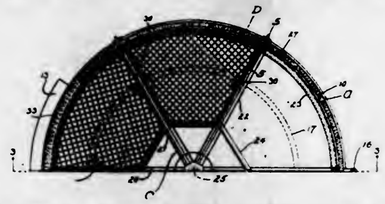
1,390,493. ELECTRIC SWITCH. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Jr., Boston, Mass. Filed Nov. 6, 1917. Serial No. 200,618. 4 Claims. (Cl. 200—6.)



1. In a starting device for electric motors two movable switch members each comprising a U-shaped frame having its arms pivotally supported, an insulating block carried by it and contact-members carried by said block, stationary switch-members disposed between said frames, an operating shaft, and toggle-mechanism connecting said shaft with said frames.

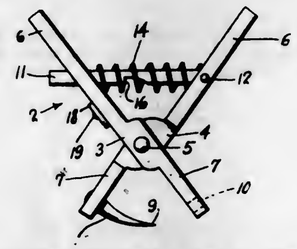
1,390,494. ICING-MACHINE. ANDREW S. CAIRNCROSS, St. Paul, Minn. Filed Aug. 7, 1920. Serial No. 401,955. 4 Claims. (Cl. 91—4.)

1. An icing machine, comprising, in combination, a cylindrical casing having an opening in one side thereof, a bottom for said casing, a downwardly sloping floor therein, extending at its lower extremity through said opening, said casing, bottom and floor forming a chamber for a heating medium, a central support passing through the floor and secured at its lower end to said bottom, a frame revolubly centered on said support, an annulus within the casing having an upright flange turned inward at its lower



edge to form a horizontal track member, the upper edge of said casing being turned downward over the flange and attached thereto to strengthen the upper margin of the casing and secure the annulus in place, antifriction elements between the frame and track member for supporting the outer margin of the latter and severally removable trays of open work material carried by said frame.

1,390,495. HIDE-COUPLER. GEORGE B. CAMPBELL, Canisteo, N. Y. Filed Sept. 9, 1919. Serial No. 322,615. 1 Claim. (Cl. 24—250.)



A hide coupler comprising a pair of pivoted bars, a pointed cutting prong or tooth carried by the jaw of one bar, a locking bar pivoted to the handle of one bar and extending through the handle of the other or companion bar, said locking bar provided with a notch, a latch pivoted to said last mentioned bar, said latch adapted to engage the notched portion of the locking bar and hold the pivoted bars in closed position and a coil spring disposed around the locking bar between the handle members of the coupler bars.

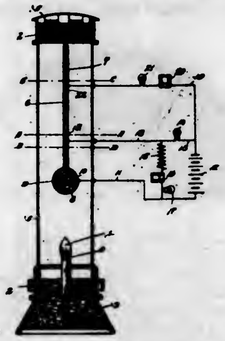
1,390,496. COLD-WATER PAINT AND PROCESS OF MAKING SAME. WILLIAM E. CARSON, Riverton, Va. Filed Oct. 9, 1919. Serial No. 329,431. 7 Claims. (Cl. 134—46.)

1. As a new composition of matter, a dry fine powder adapted for coating purposes and comprising chemically combined sugar and lime in the form of horny elastic particles soluble in water.

1,390,497. METHOD AND APPARATUS FOR THE DETECTION OF COMBUSTIBLE AND VITIATED ATMOSPHERES. EDWIN M. CHANCE, Wilkes-Barre, and THOMAS M. CHANCE, Philadelphia, Pa. Filed Apr. 17, 1917. Serial No. 162,809. 5 Claims. (Cl. 73—51.)

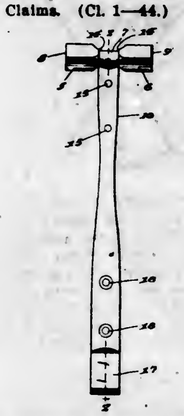
1. A method of detecting changes in the constituent gases of the atmosphere and measuring the oxygen content thereof, which consists in maintaining a temperature responsive element in operative relation to a source of heat maintained at a predetermined constant value whereby the temperature of said element will be a function of the

composition of said constituent gases, said element being operatively connected to signaling means adapted to give warning of such changes; bringing said gases in contact with said source of heat; in causing said element to operate said signaling means when the temperature of



said element reaches a predetermined lower limit; and in permitting reductions in the heat received from said source of heat, due to changes in said constituent gases, to cause the temperature of said element to reach said limit; whereby said signaling means are operated and a warning of said changes given.

1,390,498. GLAZIER'S HAMMER. FRANKLIN R. CHANDLER, St. Joseph, Mo. Filed May 27, 1921. Serial No. 473,060. 5 Claims. (Cl. 1—44.)



1. A glazier's hammer comprising a head, a metal strap engaged about the head and in which the head is rotatable and a handle in which the strap is held, the head having a plurality of flat side faces parallel with its axis of rotation.

1,390,499. NEEDLE-ADJUSTING MEANS. FORREST CHENEY, Chicago, Ill., assignor to Cheney Talking Machine Company, Chicago, Ill., a Corporation of Illinois. Filed July 17, 1918. Serial No 245,277. 1 Claim. (Cl. 274—1.)



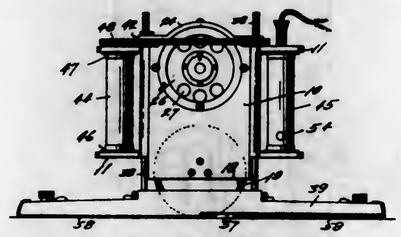
A needle discharging and positioning device for talking machines comprising a base adapted to be secured adjacent the turn-table, a sound box supporting member projecting upwardly from said base and having its supporting surface formed in contiguous stepped portions, the horizontal planes of said stepped portions being at successively lower levels, the highest stepped portion being nearest the turn-table, and a needle positioning member projecting at an angle to and in spaced relation with said lower stepped portions.

1,390,500. FLEXIBLE WATER HEATER AND DRIPPER. HERBERT W. CHRISTIAN, Detroit, Mich. Filed Aug. 8, 1919. Serial No. 316,070. 1 Claim. (Cl. 128—213.)



The combination of a reservoir, a flexible electrically heated conduit in communication therewith, means for changing the temperature in said conduit, a dripper interposed between said reservoir and said conduit, a nozzle communicating with said conduit, and a thermometer interposed between said nozzle and said conduit and all of said elements being flexibly connected together.

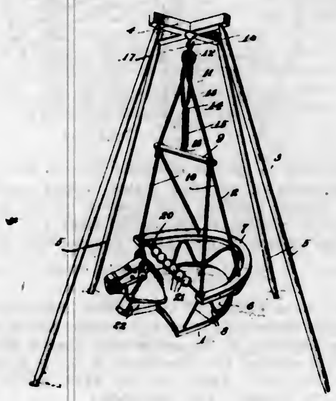
1,390,501. MOTOR-DRIVEN SURFACE-TREATING MACHINE. ALEX A. CLARKE, Dallas, Tex. Filed Feb. 13, 1920. Serial No. 358,485. 2 Claims. (Cl. 51—170.)



1. In a machine of the character described, the combination with a base, of substantially vertical posts secured to the base and having their upper portions screwthreaded, a frame carrying apertured knuckles slidably mounted upon the post, said frame having apertured arms receiving the posts and spaced from the knuckles, sprocket wheels engaging the screwthreaded portion of the post and arranged between the knuckles and arms to be held thereby against vertical displacement, pairs of horizontally extending arms carried by the frame near its ends and extending outwardly, a pair of vertical handles arranged between and connected with the horizontally extending arms, one handle being rotatable, a sprocket wheel connected with the upper end of the rotatable handle to be turned thereby, a sprocket chain engaging all of the

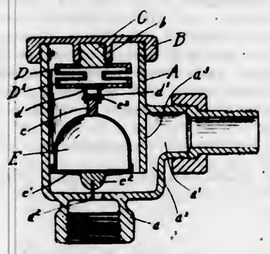
sprocket wheels to cause them to be moved simultaneously, an idle sprocket wheel rotatably mounted upon the horizontally extending arm near the sprocket wheel carried by the rotatable handle and permanently engaging such sprocket wheel, and means to lock the idle sprocket wheel against turning movement.

1,390,502. SWING. CLARENCE J. CLOUSER, Columbus, Ohio. Filed Mar. 19, 1921. Serial No. 453,607. 4 Claims. (Cl. 155—17.)



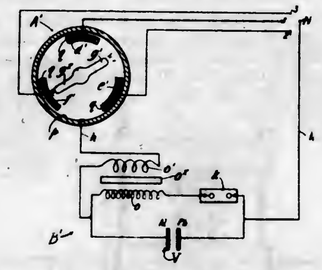
1. In a swing, a support therefor comprising a double pulley, a seat structure, a transverse rod above said seat structure, downwardly diverging cords between said rod and seat structure, a cable connected with the outer ends of said rod, the intermediate portions of said cable being trained around the pulley so as to produce a downwardly extending loop, a connection between the lower end of said loop and said rod, and a spring coöperative with said cable to effect the resilient support of the seat structure.

1,390,503. EXHAUST-VALVE FOR RADIATORS. HARRY A. CONNERS, Cincinnati, Ohio. Filed Sept. 11, 1919. Serial No. 323,105. 2 Claims. (Cl. 236—58.)



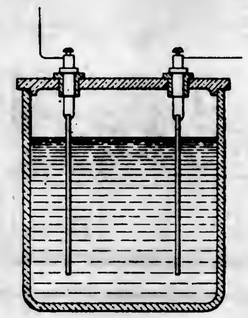
1. In a radiator exhaust valve the combination of a casing having an extension upon its side adapted to be connected to a radiator and an apron upon its interior extending below the extension and forming with the walls of the casing a float chamber open at its lower end and having at its lower end an internal valve seat, a heat sensitive expansible member mounted upon the interior of the float chamber, a float suspended from the expansible member within the aforesaid chamber and a valve carried by the float and adapted to contact with the valve seat.

1,390,504. TRANSFORMATION OF POLYPHASE CURRENTS INTO PRACTICALLY CONSTANT DIRECT CURRENTS. ORSO MARIO CORBINO, Rome, Italy. Filed Jan. 7, 1918. Serial No. 210,716. 7 Claims. (Cl. 175—364.)



1. A system for transforming alternating current into constant continuous current, comprising a converter of the mercury jet type for transforming the alternating current into unidirectional current; means for connecting said converter with a source of alternating current; means for conducting the converted current from the converter for utilization; and an equalizer for delivering current between the successive impulses of the intermitting unidirectional current.

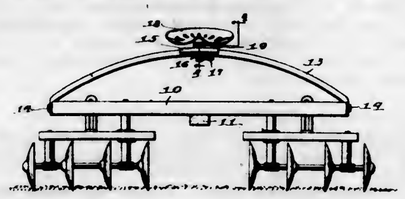
1,390,505. ELECTROLYTE. JOHN COULSON, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 19, 1917. Serial No. 149,533. 8 Claims. (Cl. 175—318.)



1 to 2% Solution of pyrogallic acid and ammonium citrate.

1. An electrolyte for electrolytic condensers, lightning arresters, rectifiers and the like comprising an aqueous solution containing pyrogallic acid radicals.

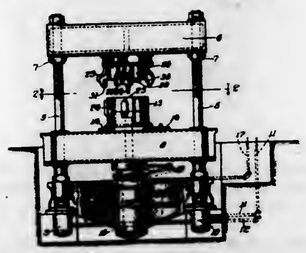
1,390,506. VEHICLE-SEAT SUPPORT. RUFUS CARTER, Jr., Danville, Va. Filed May 5, 1921. Serial No. 466,991. 2 Claims. (Cl. 155—122.)



1. In combination, an implement having a frame and ground engaging members, an upwardly bow-shaped sup-

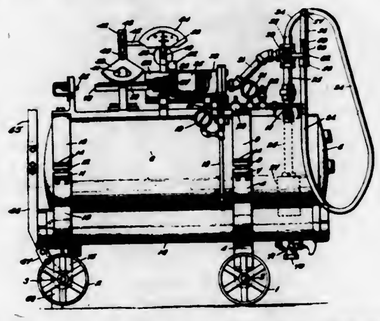
port affixed to the frame and extending transversely thereof substantially the width of the implement and a seat slidably supported on the bow-shaped support.

1,390,507. MACHINE FOR MAKING RINGS. JOHN F. CRAWFORD, Racine, Wis., assignor to J. I. Case Threshing Machine Company, Racine, Wis., a Corporation of Wisconsin. Filed Feb. 20, 1919. Serial No. 278,269. 6 Claims. (Cl. 29—1.)



1. A press comprising a head, a table movable in the direction of said head, a die mounted upon said table, a forming block on said die, a die carried by said head comprising a forming member registering with said forming block, and means for actuating said table and its die to bring material in contact with said forming member to press and shape the same.

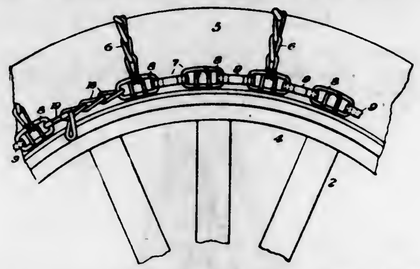
1,390,508. OIL-DISPENSING APPARATUS. RAYMOND CROWDER, Raleigh, N. C. Filed Apr. 19, 1920. Serial No. 374,979. 15 Claims. (Cl. 221—102.)



2. In an oil dispensing apparatus, the combination of a tank for containing oil; means to force said oil from said tank; means to convey said oil after leaving said tank to a measuring cylinder; a valve controlling said last named means; a delivering means communicating with said cylinder and controlled by said valve; means comprising a pair of valves located in its end adapted to normally maintain said delivering means full of oil; and means for forcing out of said cylinder and delivering means at each operation of said first named valve, the same quantity of oil that passes into said cylinder, substantially as described.

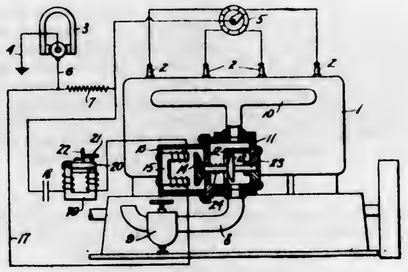
1,390,509. CHAIN-LINK. PETER E. DAUBENSPECK, Butler, Pa. Filed Mar. 10, 1920. Serial No. 364,787. 3 Claims. (Cl. 152—14.)

1. A tire chain for vehicle wheels, comprising side chains and cross chains, each of said side chains having a series of special links to which the ends of the cross chains are connected and intermediate links connecting the adjacent ends of the special links, said special links having a central eye provided with a double bearing surface for the cross chains, and having end eyes for the intermediate links, said eyes being separated by transversely extending bracing members connecting opposite sides of



the special links to prevent distortion thereof and lying on opposite sides of the cross chains to hold the cross chains in central position with relation to the special links whereby twisting of the special links and rolling of the cross chains is prevented, substantially as described.

1,390,510. ELECTRICALLY-OPERATED SPEED-REGULATOR. THEODORE DOUGLAS, Scarboro, and WARNER T. TABB, Brooklyn, N. Y., assignors to Duplex Engine-Governor Company, Inc., Brooklyn, N. Y., a Corporation of New York. Filed June 23, 1919. Serial No. 306,185. 4 Claims. (Cl. 123—102.)



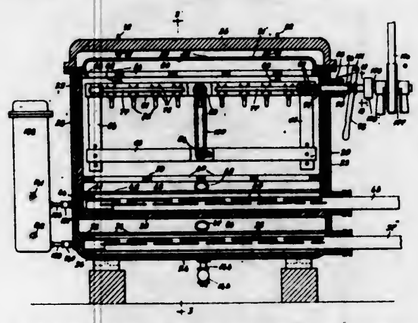
1. The combination of an internal combustion engine having a throttle valve and an ignition system including a high-tension magneto, a resistance in the high-tension circuit of the magneto, and a circuit in parallel with said resistance, said circuit including an electro-magnet to control said valve, and containing inductance and capacity to produce resonance to enable said valve to be actuated.

1,390,511. TANK-BAND SADDLE. WHITTLESEY A. DRAKE, Petroleum, Ohio. Filed June 19, 1920. Serial No. 390,192. 6 Claims. (Cl. 220—85.)



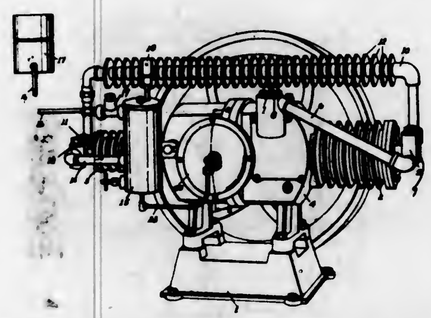
1. The combination with a tank having a lapped riveted joint, of a saddle engaging the tank at opposite sides of the joint and adapted to receive and support a tank band out of engagement with the riveted joint, the saddle having its outer ends tapered outwardly for the purpose described.

1,390,512. DYEING-MACHINE. HOWARD M. DUDLEY, Philadelphia, Pa. Filed Nov. 26, 1919. Serial No. 340,940. 9 Claims. (Cl. 8—19.)



1. In a dyeing machine, in combination, a dyeing chamber, two series of spaced parallel bars capable of holding skeins in a substantially taut condition and means for circulating a liquid in reverse directions through the dyeing chamber parallel to the length of the skeins.

1,390,513. PUMP. HARLEY M. DUNLAP, Battle Creek, Mich. Filed May 27, 1918. Serial No. 236,727. 10 Claims. (Cl. 103—94.)



7. The combination with a pressure pump, of a delivery connection therefor provided with a check valve, an oil trap disposed in said delivery connection in front of said check valve, an unloading valve connected to the lower end of said oil trap, a governor means for controlling said unloading valve comprising a spindle having driving connection with said pump, governor weights mounted on said spindle, and a member actuated by said governor weights to close said unloading valve when the speed of the pump exceeds a predetermined point.

1,390,514. FLEXIBLE COUPLING. GEORGE M. EATON, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 4, 1918. Serial No. 260,959. 19 Claims. (Cl. 64—96.)

10. In a flexible coupling, the combination with two abutting coupling members, each of which is provided with two quadrant shaped lugs on their opposing faces, said lugs overlapping each other and being of such size as to afford two diametral passages through said coupling structure at right angles to each other, of a spring unit comprising two back-to-back cantaliver leaf springs, each leaf being provided with centrally disposed lugs, binding members surrounding said springs on each side of said lugs, respectively, and each having a semi-circular lateral extension, said extensions together forming a laterally extending cylindrical boss, and a ring member surrounding said boss for clamping said binding members together,



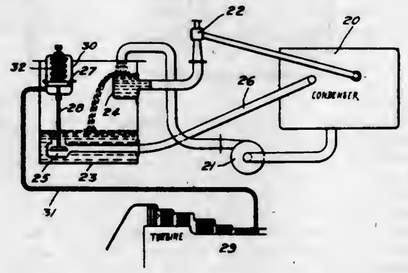
said ring member being seated in an opening in the immediately adjacent coupling member, whereby each spring unit is firmly clamped together and loosely pivoted in place.

1,390,515. CONTROLLER. RALPH EHRENFELD and NIELS HANSEN, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 17, 1918. Serial No. 258,553. 6 Claims. (Cl. 219—48.)



1. In a controller, a movable member comprising a pivoted lever provided with an insulating surface, a plurality of resilient contact fingers adapted to normally engage said insulating surface at a relatively light pressure, and a plate of conducting material mounted on said insulating surface to engage said contact fingers at a relatively heavy pressure upon movement of said lever.

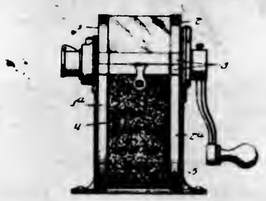
1,390,516. HEAT-CONSERVING APPARATUS. RAYMOND N. EHRHART, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 4, 1917. Serial No. 166,465. 11 Claims. (Cl. 257—24.)



1. In a heat conserving apparatus, a prime mover, a condenser, an ejector for removing air and other non-condensable gases and vapors from the condenser, means whereby the condensate from the condenser is employed in cooling and condensing the fluids discharged by the ejector and for allowing the air to separate therefrom, a hot well for storing the condensate and liquids discharged by the ejector, and means directly communicating with the interior of the prime mover and responsive to the

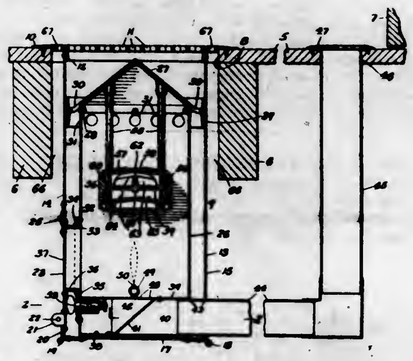
amount of motive fluid passing through the prime mover for automatically delivering liquid from the hot well to the condenser to be cooled and employed as condensate when the supply of condensate is insufficient to cool and condense the fluids discharged by the ejector.

1,390,517. CHIP-RECEPTACLE AND ART OF PRODUCING SAME. EMORY S. ENSIGN, Rockford, Ill., assignor to Spengler Loomis Mfg. Co., Chicago, Ill., a Corporation of Illinois. Filed Mar. 14, 1921. Serial No. 452,016. 2 Claims. (Cl. 120—94.)



1. A chip receptacle and casing for pencil sharpeners comprising spaced and mutually sustaining framing members, an intervening strip of wall-forming transparent material sustained between said framing members, and an obscuring, protecting, and coloring sheath of pigment applied as a backing to, and protecting and rendering non-transparent the bottom and side forming portions of said strip, and receiving its surface gloss from the surface thereof.

1,390,518. GAS-HEATER. CHARLES E. EPWORTH, Brooklyn, N. Y. Filed Aug. 19, 1920. Serial No. 404,531. 5 Claims. (Cl. 126—116.)

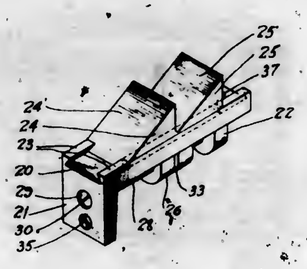


1. A heater adapted to be mounted in and suspended from the floor of a room or compartment, said heater comprising a grate plate secured to said floor, a casing suspended from said plate, a burner device within said casing, means for supplying fresh air to the burner device of said casing, a conical head forming a closure for the top portion of said casing, and means whereby the heated air may pass upwardly and laterally through said casing around said conical head and outwardly through said grate plate.

1,390,519. ADJUSTABLE STRIKER-PLATE FOR DOORS. FRED EVANS, Summit, N. J., assignor to Eric T. Transen, Maplewood, N. J., and Arthur C. Hensler, Newark, N. J. Filed Nov. 13, 1920. Serial No. 423,777. 5 Claims. (Cl. 292—340.)

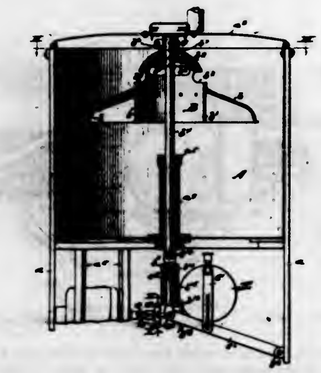
1. A spring bolt keeper having two adjusting catches, either of which may be engageable by the bolt.

5. A spring bolt keeper comprising a plate fixed in the jamb of the door carrying the bolt, a plurality of catches slidable longitudinally on said plate, a lug extending



through the plate, said lug and catches being integral, an adjusting screw for said lug and means in the lug for maintaining said screw in adjustment.

1,390,520. WASHING-MACHINE. LEO F. FAY, Ecorse, Mich. Filed Feb. 9, 1920. Serial No. 357,215. 8 Claims. (Cl. 259—113.)

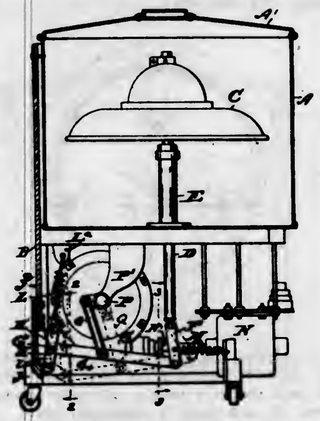


1. A washing machine comprising a clothes container, a beater in the container, a spindle extending through the bottom of the container and connected with the beater, a motor located below the container and a yieldable device connected with the motor and with the spindle and located wholly below the container, said yieldable device comprising a cylinder, a piston rod having a head operating within the cylinder and springs located within the cylinder and yieldably engaging the piston head above and below the same.

1,390,521. WASHING-MACHINE. LEO F. FAY, Ecorse, Mich. Filed Feb. 7, 1921. Serial No. 442,980. 5 Claims. (Cl. 74—14.)

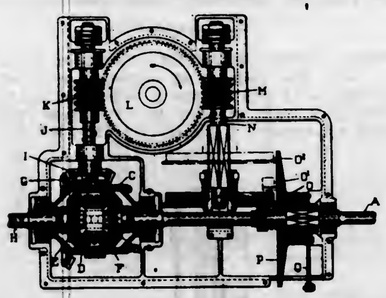
1. A motor, a movable spindle fitted with an operated device, a rocking lever, means actuated by the motor for operating the rocking lever, a movable fulcrum for the rocking lever whereby the rocking lever may be automatically shifted to adjust itself to load conditions, means for returning and normally retaining the movable fulcrum in its normal position, whereby the rocking lever

may operate under normal load conditions, a link connection between the swinging end of the rocking lever and



the spindle, and resilient means for checking the sudden return of the rocking lever to its initial position.

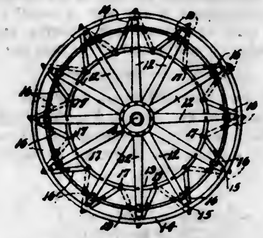
1,390,522. VARIABLE GEARING. JOHN WILLIAM FISHER, Blackpool, England. Filed Nov. 16, 1920. Serial No. 424,353. 2 Claims. (Cl. 74—34.)



1. A variable speed gear comprising a driving shaft, a sun wheel on said driving shaft, a driven shaft, a sun wheel on said driven shaft, planet wheels connecting said sun wheels, a revoluble cage carrying said planet wheels, a countershaft, a driving connection between said countershaft and said cage, a worm on said countershaft, a worm wheel gearing therewith, a second countershaft, a second worm on said second countershaft meshing with said worm wheel, a friction disk keyed to but slidable along said second countershaft, a friction disk contacting therewith and keyed to said driving shaft and having a cut away center portion, and an anti-friction thrust ring in said cut away portion to allow the driven friction disk to rotate freely when displaced on to its central portion.

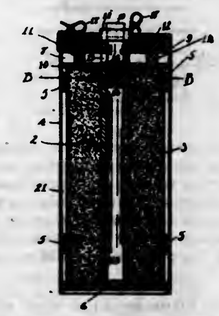
1,390,523. PADDLE-WHEEL. ALFRED FORTIER, Mayo Landing, Yukon Territory, Canada. Filed Sept. 9, 1918. Serial No. 253,297. 1 Claim. (Cl. 170—146.)

A paddle wheel for boats, including spaced and opposed end members formed with radial arms, corresponding concentric rings carried by the end members, transverse rods connecting the outer concentric rings, paddles pivotally connected to the inner concentric rings and extending outwardly between the cross rods so that the cross rods will form stops for the paddles as they swing back and forth into opposite angular positions, a rotatable ring loosely connected with the paddles for causing a simultaneous shifting thereof, and guide means upon the end members loosely receiving the rotatable ring, the pivotal mounting of the paddles enabling them to shift automatically into an



opposite angular position when the direction of rotation of the wheel is reversed and the paddles being arranged in either instance to enter the water substantially flatwise and leave the water substantially edgewise.

1,390,524. ELECTRIC BATTERY. HARRY F. FRENCH and RAYMOND C. BENNER, Fremont, Ohio, assignors, by mesne assignments, to National Carbon Company, Inc., a Corporation of New York. Filed Jan. 27, 1917. Serial No. 144,830. 12 Claims. (Cl. 204—38.)



1. An electric cell of the reserve type comprising; a closure for the cell having an opening therein; a positive electrode, a negative cartridge assembled in spaced relationship from the positive electrode; paste material normally out of contact with the electrode and cartridge, adapted to be introduced in the space between the cartridge and electrode through said opening, said space being connected with the opening in the closure whereby the paste may be introduced to render the cell active.

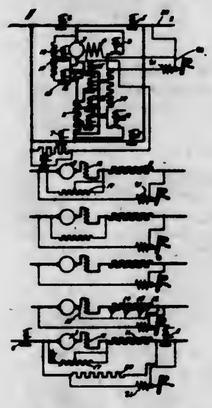
1,390,525. CHAIR OR THE LIKE. SAMUEL GAGE, Holloway, London, England, assignor to The London General Omnibus Company, Limited, Broadway, Westminster, London, England. Filed Dec. 27, 1920. Serial No. 433,094. 4 Claims. (Cl. 155—196.)



1. In a chair or the like the combination with a seat of a back comprising a wooden side frame-member which

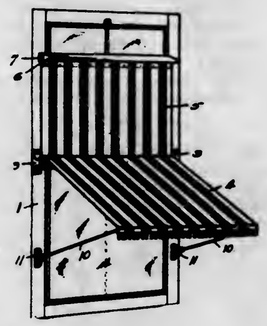
supports the rear of the seat and forms a leg extending down to the floor, said frame-member being slotted in a front and rear direction, intermediate its side faces, and throughout a considerable portion of its length adjacent the point of attachment to the seat, a metal plate which occupies said slot, and means for securing said plate to the frame-member to stiffen and strengthen the latter.

1,390,526. ELEVATOR-CONTROL SYSTEM. ADOLPH A. GARDA, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 5, 1918. Serial No. 210,580. 6 Claims. (Cl. 172—179.)



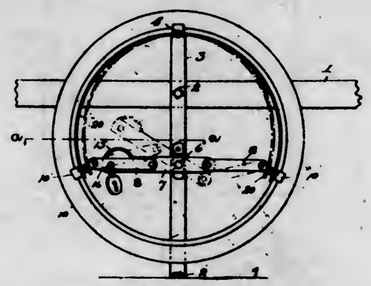
3. In a motor-control system, the combination with a source of power, an armature winding, and an induction coil and a starting resistor in series therewith, of a dynamic-braking resistor in parallel relation with said armature, said induction coil and said starting resistor, and a brake coil connected, at one end, to said dynamic braking resistor, and, at the other end, to said source of power.

1,390,527. WEATHER-SHIELD FOR SPRING-SHADE AWNINGS. EDWIN GRAY, Maplewood, Mo. Filed Dec. 8, 1919. Serial No. 343,435. 3 Claims. (Cl. 156—44.)



2. In combination with a spring-shade awning, a weather shield comprising a plate adapted to be secured to the upper edge of the awning so as to move therewith, said plate having a forwardly extending shield portion terminating in a suitably curved forward edge to provide a positive water-drip, said shield portion adapted to cover the awning when the awning is in its rolled up position to provide an effective weatherproof shield therefor.

1,390,528. TIRE-CARRIER. MARTIN L. GRUBBS, Wernersville, Pa. Filed Sept. 22, 1920. Serial No. 411,978. 1 Claim. (Cl. 224—29.)



In a tire-carrier, the combination of a support, a rocker pivotally supported between its ends, links pivotally secured to said rocker, a member pivotally secured to the outer end of each link, a segmental plate, of spring material, secured, intermediate its ends, to said support and bearing, at its ends, against said members, and two shoe-members, each bearing against said plate at one end thereof and provided with side flanges and an arched central portion forming depressions or pockets in which a plurality of tires may be received, and means for securing said superposed pivotally-secured members, segmental plate, and shoe-members rigidly together.

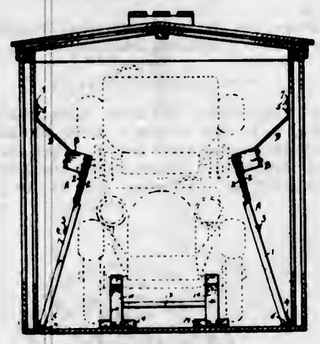
1,390,529. VALVE-SILENCER. FREDERICK GRINHAM, St. Louis, Mo., assignor of one-fourth to Henry W. Spalding, one-fourth to John C. Stiles, and one-fourth to George P. Ward, St. Louis, Mo. Filed June 24, 1921. Serial No. 480,040. 3 Claims. (Cl. 123—90.)



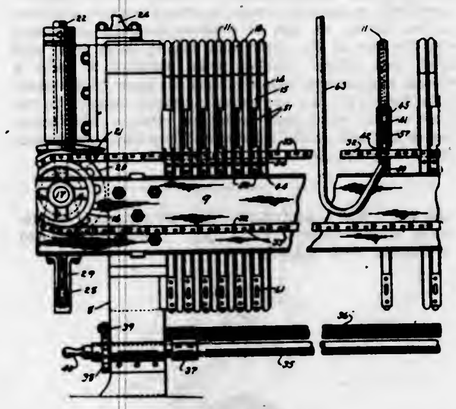
1. A valve silencer comprising a piece of non-metallic substance having a hole in its center, the same being elongated in its longitudinal dimension, and adapted to serve as a buffer on two surfaces of a movable-member.

1,390,530. AUTOMOBILE-TRANSPORTATION SUPPORT. WILLIAM A. HANSEN, Salt Lake City, Utah, assignor of one-sixth to Robert F. Elvin, one-sixth to Alfred Lefavor, one-sixth to Finis L. Ewing, one-sixth to Marshal M. Daniels, and one-sixth to John Percy Bowers, Salt Lake City, Utah. Filed Dec. 15, 1920. Serial No. 430,965. 2 Claims. (Cl. 105—368.)

2. An automobile support for use in shipping, comprising upwardly converging channel irons; triangular metal sheets to fasten said channel irons together at the apex; a hollow metal box secured to one of said triangular sheets; a bracket brace fastened to said box and extending upward at an incline from said box; and a block to be carried in said box and recessed to receive the end portions of an automobile axle.



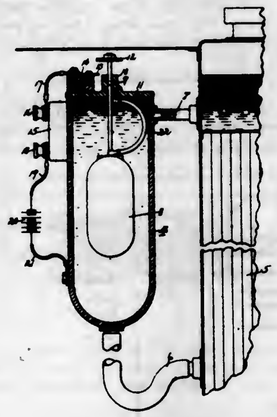
1,390,531. FILTER-PRESS EQUIPMENT. NELSON A. LOCKWOOD, Ogden, Utah. Filed Sept. 22, 1920. Serial No. 412,022. 17 Claims. (Cl. 210—193.)



1. In filter presses embodying a series of filter units operative therealong, for opening and closing the press, the combination of conveyer elements movably associated with said filter units, for shifting the latter in reverse directions as desired, means for operating said conveyer elements, and means for detachably coupling said filter units with said conveyer elements, substantially as described.

1,390,532. HEAT AND LOW-WATER INDICATOR. OSCAR H. LUDEMAN, Hartford, Conn. Filed Dec. 9, 1918. Serial No. 265,998. 5 Claims. (Cl. 200—84.)

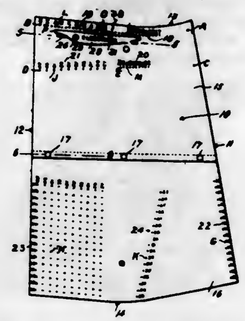
1. An operating mechanism for a low water and heat indicator including a case adapted to be connected with a holder to receive liquid therefrom, a float within the case, means actuated by the float to set an indicator in operation at a predetermined position of the float, and a thermostat positioned to move said float.



1,390,533. PROCESS OF MAKING AMMONIA. KARL P. MCELROY, Washington, D. C., assignor to Ferro Chemicals Inc., Washington, D. C., a Corporation of Delaware. Filed Dec. 24, 1917, Serial No. 208,647. Renewed Feb. 7, 1921. Serial No. 443,224. 9 Claims. (Cl. 23—21.)

1. The process of producing ammonia which comprises passing air at a high temperature through a pervious charge comprising lime, carbon and returned potash, the temperature being high enough to produce potassium cyanid in fume form, removing the hot gases containing the fume, separating the fume to recover potassium cyanid, hydrolysing the potassium cyanid to produce ammonia and a potassiferous residue and returning the potassiferous residue to form part of a charge.

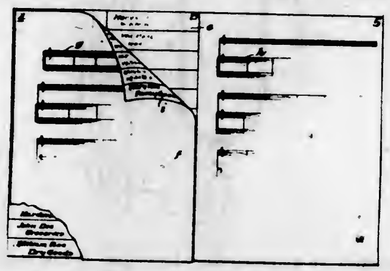
1,390,534. SKIRT-TEMPLET. UICHIRO MAEDA, Los Angeles, Calif. Filed Aug. 16, 1919. Serial No. 318,017. 1 Claim. (Cl. 33—13.)



A templet adapted to be used for the laying out of a skirt pattern to correspond to predetermined measurements, said templet being provided with a plurality of measurement indicating points at the waist, hip, front and back lines of a skirt, said indicating points at the waist and hip lines extending approximately across the templet between its front and back edges and represent-

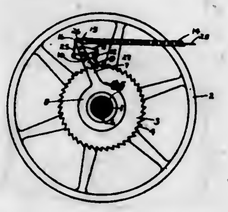
ing measurement units, said templet being further provided with indicating points for establishing the point of the dart of the skirt on said pattern midway of predetermined measurements at the hip line and for establishing the points of the flare of said dart at predetermined distances from the front and back edges of the skirt pattern.

1,390,535. MUSIC-SHEET ADVERTISING DEVICE. CLARENCE H. MAIER, New York, N. Y. Filed Nov. 26, 1920. Serial No. 426,369. 1 Claim. (Cl. 283—56.)



A sheet music book adapted to constitute a gift, for distribution by advertising concerns, said book including a four-page sheet and an insert in the form of a two-page sheet, said four page sheet identified in order as pages 1, 2, 5 and 6, of which page 1 constitutes a front cover sheet and sheet 6 constitutes a back cover sheet, page 2 on the reverse side of the front cover page having a text thereon constituting an advertisement which advertisement sheet cannot be thrown away without also throwing away the front cover page, said insert sheet identified in order as pages 3 and 4 in the book having a size to fit over and hide the advertising matter on page 2 when the book is open to expose pages 4 and 5 said exposed pages 4 and 5 having a text thereon constituting a complete piece of music whereby the piece can be sung or played without turning any of the sheets, the reverse sides of said pages 4 and 5 being respectively page 3 and the back cover page 6 having a text thereon constituting advertisements which cannot be thrown away without also throwing away the piece of music.

1,390,536. MEANS FOR MOVING THE DRIVE-SHAFTS OF STEAM-ENGINES FROM DEAD-CENTERS. SANFORD E. MANNING, West Columbia, Tex. Filed Aug. 21, 1920. Serial No. 405,138. 6 Claims. (Cl. 74—54.)

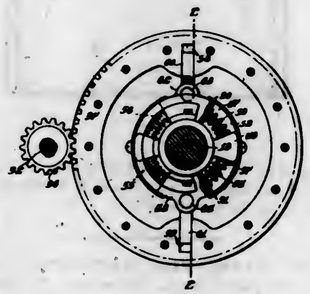


5. A device of the character described comprising a power shaft, a ratchet wheel fixed on said shaft, a lever adjacent said wheel, an operating lever spaced from said shaft, a rigid means connecting said operating lever with said first named lever, whereby the latter may be thrown either backward or forward and means to connect said first named lever with said ratchet wheel and operable from said operating lever.

1,390,537. COMPOSITION OF MATTER DESIGNED FOR USE ON SHOES AND BOOTS AND ON LEATHER ARTICLES GENERALLY. JOSEPH RAOUL MONTPETIT and JAMES SCOTT ADAMSON, Ottawa, Ontario, Canada. Filed Oct. 4, 1920. Serial No. 414,656. 7 Claims. (Cl. 134—8.)

1. A composition for the preservation of leather comprising a varnish, a cellulose ester solution and a rubber solution.

1,390,538. YIELDABLE GEARING. HOWARD J. MURRAY, Brooklyn, N. Y., and WALTER S. RUGG, Pittsburgh, Pa. Original application filed May 27, 1918, Serial No. 236,856. Divided and this application filed July 2, 1920. Serial No. 393,544. 11 Claims. (Cl. 74—29.)



1. In a device of the class described, the combination of a power transmission including a wheel, a power member operatively connected thereto to drive the same, a driven member having its axis of rotation normally coinciding with the axis of the wheel and spaced apart from said wheel, said driven member being mounted to have a freedom of movement axially across the plane of the wheel and a flexible driving connection normally disposed in the plane of the wheel and extending between said transmission and said driven member and in sliding engagement with the transmission.

1,390,539. WALL-BRACKET. ROY F. PERKINS, Middleboro, Mass. Filed Mar. 23, 1921. Serial No. 454,645. 4 Claims. (Cl. 248—31.)

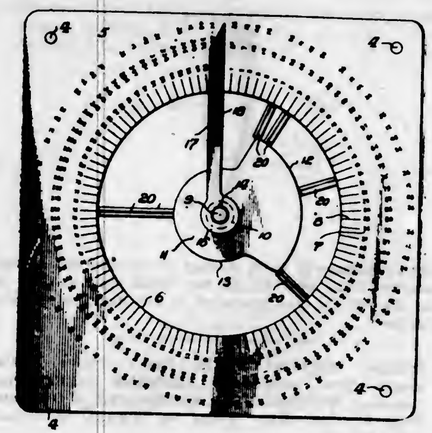


1. A device of the class described comprising a body having a laterally projecting rib constituting a shoulder, a hook having a shank passing through said rib and provided with an offset portion engaging said shoulder.

1,390,540. DEVICE FOR TESTING INACCURACIES IN CAMS. STEPHEN PICHLER, Detroit, Mich. Filed June 21, 1920. Serial No. 390,557. 5 Claims. (Cl. 33—75.)

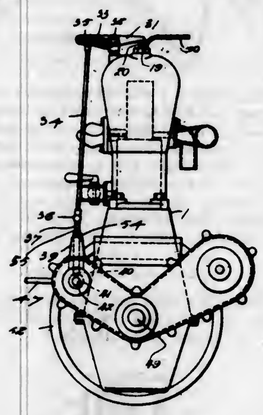
1. Means for gaging a cam comprising a gage plate having an opening in which a cam to be gaged is placed.

means adapted for supporting the cam in the plate opening so that said cam may be rotated therein, and a plu-



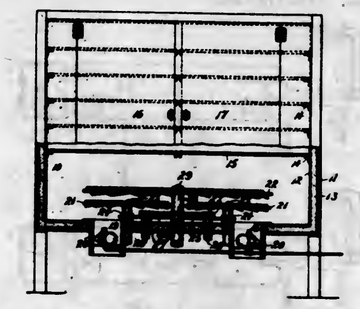
rality of pins adapted to be interposed between the cam and the wall of the plate opening.

1,390,541. ACTUATING MEANS FOR FUEL-INJECTOR PLUNGERS. RICHARD H. RANDALL, Brockton, Mass., assignor of one-half to Athelstan E. Gooch, Brockton, Mass. Filed June 20, 1917. Serial No. 175,850. 4 Claims. (Cl. 123—90.)



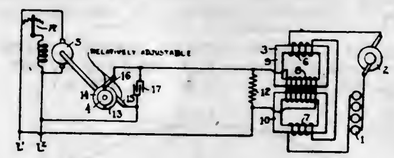
1. Actuating means for the plunger of a valve for injecting fuel charges into the cylinder of an internal combustion engine, comprising a rocker arm engaging the plunger and adapted to move the plunger inwardly, a retraction spring adapted to move the plunger outwardly, a link rod, means pivoting the link rod to the rocker arm and adapted to be adjusted lengthwise of the rocker arm in the direction of and away from its pivot, and means for imparting motion to the link rod.

1,390,542. HEATING AND BAKING STRUCTURE. JAMES J. REID, Oakland, Calif. Filed Mar. 3, 1920, Serial No. 362,977. Renewed Feb. 16, 1921. Serial No. 445,448. 5 Claims. (Cl. 107—60.)



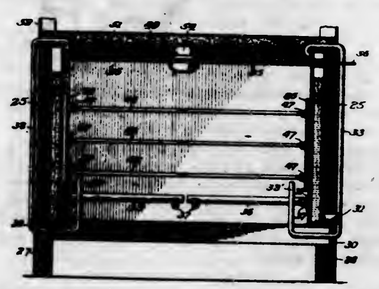
1. In a heating structure, a heat generating element and movable means actuated by the radiating heated air to uniformly distribute said heated air over a given area.

1,390,543. CURRENT-REGULATOR. FREDERICK L. RE QUA, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed Aug. 19, 1918. Serial No. 250,421. 7 Claims. (Cl. 171—119.)



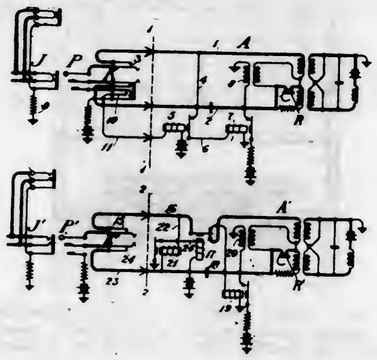
1. In a current regulator, the combination with a magnetic amplifier having coördinated alternating and direct current windings, of a local circuit for the direct current winding of said amplifier and means for subjecting said last mentioned winding to a given potential intermittently.

1,390,544. STOVE. HENRY C. REUTER, Chicago, Ill., assignor to Samuel Block and Henry C. Reuter, doing business as Block & Reuter, Chicago, Ill. Filed July 29, 1920. Serial No. 399,759. 8 Claims. (Cl. 126—20.)



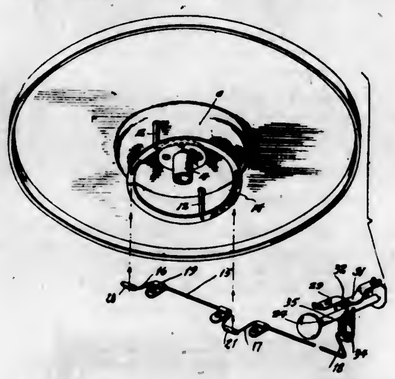
1. A stove comprising an insulated chamber closed at its top and entirely open to the air at its lower end, and having a door, a water jacket lining within the chamber, heat generating means within the lower part of the chamber and means for supplying steam vapor from the water jacket to the interior of the chamber.

1,390,545. DESK-OPERATOR'S CIRCUITS. WILLIAM A. RHODES, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 5, 1918. Serial No. 265,438. 8 Claims. (Cl. 179—53.)



1. In a telephone system, a plurality of operator's cords, an operator's telephone set common to said cords, means to associate said set with any one of said cords, means normally connected with the tip conductors of said cords to complete a busy test circuit for said set when a test is made with a cord to which the set is connected, and means common to said cords for opening said busy test circuit when a connection is established over said cord.

1,390,546. RECORD-LIFTING DEVICE. WALTER A. RICHMAN, Egg Harbor, N. J. Filed July 27, 1920. Serial No. 399,314. 3 Claims. (Cl. 274—9.)



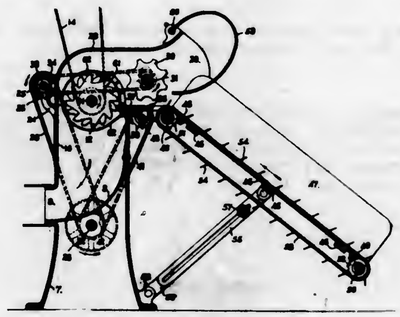
1. The combination with the turntable of a sound reproduction apparatus, of a record lifting plate associated with the table, an annulus located beneath the table and having connection with the plate through the table, a rock shaft having crank portions to ride against the annulus when the shaft is rocked in one direction, and thus move the annulus in an upward direction, and means for rocking the said shaft, the said means comprising a shiftable member having a guide, the said shaft having a crank engaging the guide.

1,390,547. DAMPER FOR MOISTENING ADHESIVE CEMENTS AND THE LIKE. HARRY BOTWRIGHT ROGERS and MAURICE GOAD ROGERS, London, England. Filed Feb. 8, 1921. Serial No. 443,405. 3 Claims. (Cl. 91—67.4.)

1. A damper comprising a chamber adapted to contain liquid, and having an opening and an absorbent pad filling said opening and protruding from an end of the chamber, that part of the pad within the chamber having applied thereto a liquid proof coating and the sides thereof caused to adhere to the sides of the body of the damper to prevent the passage of water through the opening and a small puncture being provided in the liquid proof coating in the edge of the pad presented to the liquid within the chamber.



1,390,548. FORAGE-CUTTER. LEE C. SHARP, Plattsmouth, Nebr., assignor to Alfa-Laise Manufacturing Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 26, 1918. Serial No. 268,510. 3 Claims. (Cl. 146—29.)



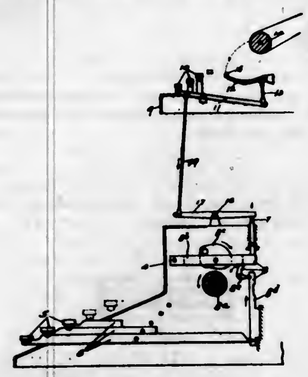
1. In a forage cutter, a cutting cylinder, a fixed support having bearings for said cylinder and inclosing the lower portion thereof, a drive-shaft mounted on said support, a feed-cylinder, actuating means therefor connecting the same with the drive-shaft, and a casing-member covering the upper portion of the cutting-cylinder and feed-cylinder, said casing-member, the feed-cylinder and the actuating means therefor being swingable about the axis of the drive-shaft to fully uncover and expose the cutting-cylinder.

1,390,549. BOTTLE-CLOSURE. FRANK H. SILVERTHORNE, New York, N. Y. Filed Aug. 25, 1919. Serial No. 319,783. 11 Claims. (Cl. 215—76.)



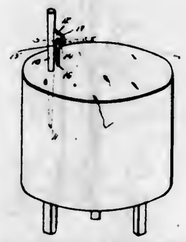
1. A closure for a bottle including a spring ring, a ferrule for securing said ring to the bottle, a rotary valvular construction for controlling the flow from the bottle, said construction including a nozzle seat, a pouring nozzle rotatably mounted in said seat and held resiliently in place by said spring ring.

1,390,550. LINOTYPE-INSTRUCTION DEVICE. HARRY SMITH, Portland, Oreg. Filed July 24, 1920. Serial No. 398,751. 1 Claim. (Cl. 35—16.)



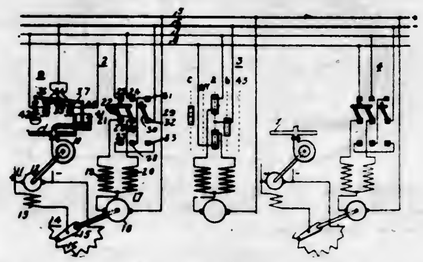
A device of the character described, having in combination therein, a linotype keyboard mechanism of common type with a power transmission shaft extending within the casing thereof, a horizontal bar pivoted at one end in the casing above the shaft, with a rigid vertical pin on its opposite free end, a cam member pivoted in the bar above the shaft, a slidable vertical arm engaging at its lower end an opposing linotype key-bar, a cam lever pivoted near the upper end of the arm in position where one part of the lever engages the upper part of the arm and the opposing lever part supports the bar in sliding engagement therewith, a typewriter mechanism of common type, and a lever pivoted at its center on the linotype case, its free end extending over the free end of the aforesaid pin, and having a rod extending from its opposing end to a desired typewriter key-bar, the whole being arranged to allow the cam lever to be manually moved to permit the bar to drop sufficiently so that its cam member may engage the shaft, and the shaft automatically to cause said member to raise the free end of the bar and the end of its pin to deliver an impact stroke to the intervening mechanism and it in turn to actuate a desired type key-bar to an impression.

1,390,551. CHUCK-PIN. JOSEPH J. HARRINGTON, Philipsburg, Mont. Filed Mar. 28, 1921. Serial No. 456,261. 3 Claims. (Cl. 17—14.)



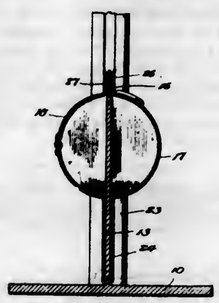
1. As a new article of manufacture, a chuck pin having a handle pivotally connected thereto adjacent the upper end thereof, and means for limiting the pivotal movement of the handle with relation to the pin.

1,390,552. MOTOR-CONTROL SYSTEM. ALBERT L. HARVEY, Braddock township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 7, 1917. Serial No. 200,661. 4 Claims. (Cl. 103—87.)



1. In a system of control for a fluid system, the combination with a plurality of fluid pumps for maintaining pressure in the fluid system, a plurality of motors severally connected to said pumps, rheostats for governing the excitation of said motors, and pilot motors for respectively controlling the operation of said rheostats, of a supply circuit, and means for jointly connecting any number of said pilot motors to the supply circuit and controlling the operation thereof in accordance with the pressure in the fluid system.

1,390,553. TOOTHPICK-DISPENSER. HIRAM S. HEARN and ARNOLD E. PERRETEN, Denver, Colo. Filed Apr. 12, 1920. Serial No. 373,226. 4 Claims. (Cl. 206—23.)



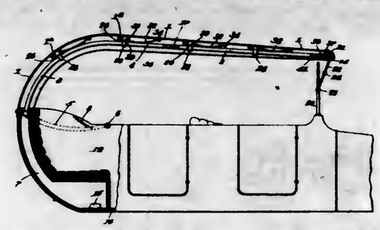
3. A device of the character described including a base, guide posts rising therefrom, an ejector upstanding from the base between said posts, a hopper slidably supported by said posts and depressible over the ejector, springs surrounding the posts and normally holding the hopper elevated, casings housing said springs, and means upon the upper ends of the posts securing the casings and limiting the hopper against upward displacement.

1,390,554. FOLDING AUTOMOBILE-TOP. ABRAHAM D. HEDGES, Long Beach, Calif. Filed Aug. 21, 1919. Serial No. 318,917. 18 Claims. (Cl. 296—107.)

1. An automobile top including a top frame comprising side rods having straight front portions extending from the back of the vehicle to the front thereof, said side rods being also provided with downwardly curved rear portions, and approximately horizontal balancing arms extending forwardly from the lower terminals of the curved rear portions and pivotally connected to the body of the vehicle and adapted to effect a counterbalancing of the forwardly extended portions of the side rods.

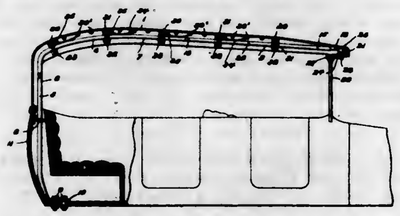
4. An automobile top including a top frame composed of side rods having curved rear portions and straight

front portions, a cover stretched over the top frame and secured to the front ends of the side rods and yieldable means arranged at intervals for connecting the cover with



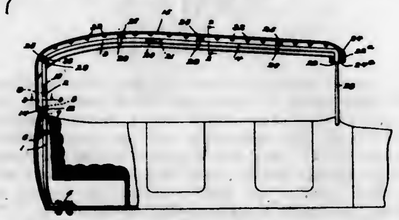
the side rods for stretching the cover, said yieldable means extending in the direction of the cover when the same is arranged for use.

1,390,555. AUTOMOBILE-TOP. ABRAHAM D. HEDGES, Long Beach, Calif. Filed Dec. 15, 1919. Serial No. 345,102. 18 Claims. (Cl. 296—107.)



1. An automobile top including a top frame, a flexible cover arranged on the top frame, a spring actuated member slidable on and carried by the top frame and connected with the front of the flexible cover for stretching the same, means for slidably connecting the spring actuated member with a fixed portion of the automobile, and means for locking the slidable member in a retracted position to relieve the flexible cover of the spring.

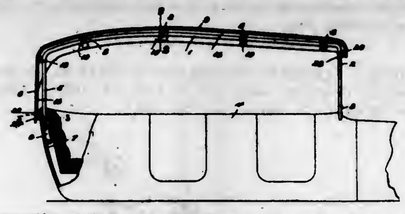
1,390,556. AUTOMOBILE-TOP. ABRAHAM D. HEDGES, Long Beach, Calif. Filed Dec. 15, 1919. Serial No. 345,103. 13 Claims. (Cl. 296—107.)



1. An automobile top including a flexible cover, a top frame composed of fixed rear sections provided at their lower ends with attaching means for securing them to the lower portion of an automobile body in rear of the back seat, a short coupling section, a bent, forwardly extending section, and pins connecting the sections and threaded at one end, and cover stretching means mounted on the pins and retained in place by the sections and connected with the said flexible cover.

1,390,557. AUTOMOBILE-TOP. ABRAHAM D. HEDGES, Long Beach, Calif. Filed Oct. 9, 1920. Serial No. 415,718. 11 Claims. (Cl. 296—107.)

1. An automobile top including a top frame, a flexible cover, transverse bows or slats arranged at intervals and secured to the cover, members slidably connected with the slats or bows and slidable on the top frame, and a flexible



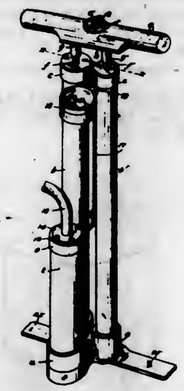
connection attached to the bows or slats and arranged when placed under tension to engage the slidable members with the top frame.

1,390,558. PHONOGRAPHIC REPRODUCER. ALEX HOOVER, Bellefourche, S. D. Filed Aug. 8, 1919. Serial No. 316,114. 1 Claim. (Cl. 274—29.)



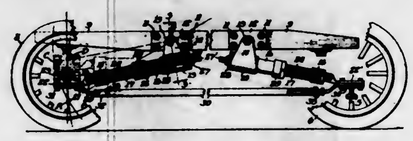
A reproducer comprising a shell, a plurality of diaphragms in the shell and spaced from each other and the shell, a needle post extending transversely through and secured in the central portions of and carried solely by the said diaphragms and projecting forwardly from the foremost diaphragm and adapted to carry a needle at its forward end; said needle post having an enlargement opposed to the forward side of the foremost diaphragm, spacing washers on the post and between the diaphragms, and a spider surrounding and carried by the post and spaced from the rear side of the foremost diaphragm and having fingers opposed to said rear side of the foremost diaphragm.

1,390,559. VARIABLE-POWER HAND AIR-PUMP. CHARLES L. HUNTLEY, Milwaukee, Wis., assignor of one-half to Jessie A. Allen, Oregon City, Oreg., one-fourth to Edward Nicholson and one-fourth to Joseph I. Nicholson, Portland, Oreg. Filed July 16, 1919. Serial No. 311,366. 6 Claims. (Cl. 230—27.)



1. In a pump comprising a plurality of barrels of larger and smaller cross-sections respectively, a piston in each barrel, a single operating element, and means for connecting both or either of said pistons to said operating elements.

1,390,560. SPRING-SUPPORT FOR VEHICLES. ALBERT HUPP, Oak Park, Ill. Filed Nov. 28, 1919. Serial No. 341,235. 12 Claims. (Cl. 267—20.)



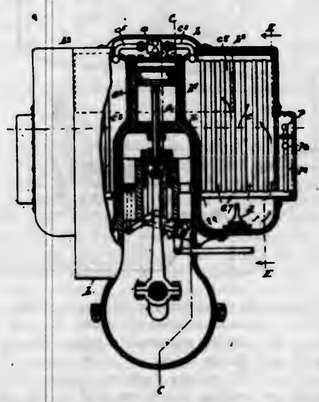
10. In a spring support for vehicles, the combination with a side sill of a chassis frame, and front and rear axles, of front and rear supporting devices for said side sill each comprising a hanger bracket pivotally suspended at its upper end from said side sill, a tubular member rigid with said bracket, a second tubular member telescopingly engaged with said first named tubular member and pivotally jointed at its outer end to one of said axles, a coil compression spring housed within said tubular members, an adjustable abutment member for one end of said spring mounted in the outer end of one of said tubular members, and a tie-rod connecting said front and rear axles substantially in the vertical plane of said supporting devices.

1,390,561. ILLUMINATED SIGN. JOHN HUGH KELLY, New Orleans, La. Filed Apr. 4, 1921. Serial No. 458,234. 1 Claim. (Cl. 40—132.)



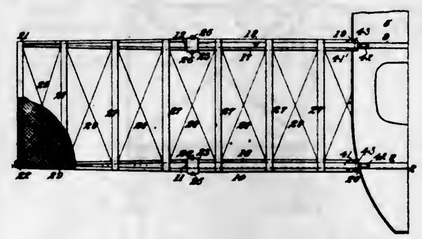
A sign comprising, a casing having openings in two sides thereof the walls of which are formed with channels, glass panels removably fitted within the channels, illuminating means within the casing, and a latch member pivotally supported on the casing and arranged to simultaneously span the ends of certain of the channels to maintain the panels within the channels and to be frictionally held in spanning position.

1,390,562. POWER-PLANT. LEO I. KELLY, Detroit, Mich. Filed July 25, 1917. Serial No. 182,622. 4 Claims. (Cl. 60—27.)



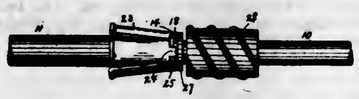
1. In a power plant, the combination of a steam cylinder having an interior wall adapted to form a bearing surface for a piston, a power receiving and imparting piston adapted to reciprocate in said cylinder bearing against said surface, means for supplying steam to said cylinder to impart power to said piston and exhausting the same from said cylinder, means for applying a high temperature to the exterior wall of said cylinder opposite and adjacent to said bearing surface, and heat insulating means interposed between said source of high temperature and said bearing surface, the quality of said insulator by which the flow of heat is obstructed being such that the heat shall be supplied through the wall of the cylinder to the interior surface thereof at the rate that the heat is withdrawn from said interior surface in the normal working of the engine.

1,390,563. AEROPLANE-WING. WALTER E. KNOELL, Tacoma, Wash. Filed Sept. 7, 1920. Serial No. 408,717. 6 Claims. (Cl. 244—12.)



1. In an aeroplane, a fuselage, two beams mounted in said fuselage extending to both sides of the same, two wings inclosing said extended beams, and secured to their tips at approximately the center of gravity of said wings.

1,390,564. HOSE-CLAMP. FREDERICK J. KNORR, New York, N. Y., assignor to Margaret R. Elkin, New York, N. Y. Filed Jan. 24, 1920. Serial No. 353,650. 16 Claims. (Cl. 285—82.)



14. In a hose-clamp, the combination of a tube having a nipple extremity and an abutment at the base of the nipple, a collar placed over said tube, and having a plurality of hook-like portions, a plurality of jaws having hooks engaged over said portions, whereby said jaws are hingedly connected with said collar, an annular flange on said tube secured in close contact with said collar to hold the collar against said abutment and also to hold the jaw-hooks in position, and a locking sleeve for fitting over said collar and jaws, all of said parts being stamped-up from sheet metal.

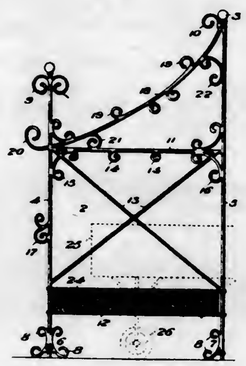
1,390,565. FRAME FOR PLANES. JOHN KNOWLES, New Britain, Conn. Filed Dec. 13, 1920. Serial No. 430,170. 2 Claims. (Cl. 145—5.)



1. In a carpenter's plane, a frame having a body formed of sheet material and comprising a seat for the blade, and the said seat being of skeleton form, composed of a

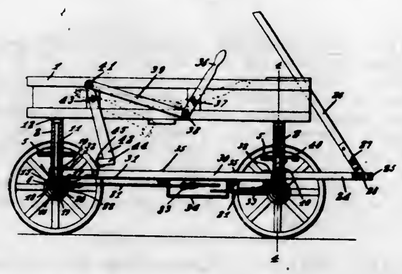
plurality of lips that are integral with the material of the said body and each connected by one edge with the general body structure.

1,390,566. FLORAL CANOPY. EMMA M. KOEHLER, Evansville, Ind. Filed Mar. 3, 1920. Serial No. 362,945. 1 Claim. (Cl. 211—14.)



A skeleton panel for a floral canopy having crossed braces and lateral cross connections constituting a rigid frame, an exposed shelf connecting the lower parts of the uprights below the braces and projecting out from the plane of the panel, and an upright screen connected to the uprights and located at the back of said shelf, and means on the upper part of the panel for sustaining flowers.

1,390,567. VEHICLE. PETER KRIEGER, Sr., Paterson, N. J. Filed July 20, 1920. Serial No. 397,647. 3 Claims. (Cl. 280—102.)



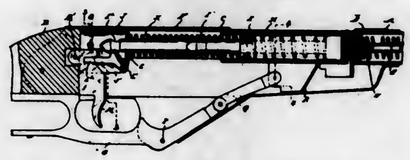
1. A vehicle comprising a body; bolsters on the body; front and rear axles coöperating with the bolsters and having openings; a reach having its ends disposed in the openings; king bolts connecting the axles with the bolsters, the king bolts extending across the openings, and the ends of the reach being mounted on the king bolts; rods extended along the axles; clips on the axles and retaining the rods on the axles; ground wheels on the rods; and crossed foldable members having their ends pivoted to the clips of the front and rear axles.

1,390,568. HEEL-GRIP FOR SHOES. GEORGE LAWLER, Auckland, New Zealand. Filed Aug. 26, 1920. Serial No. 406,253. 3 Claims. (Cl. 36—58.5.)



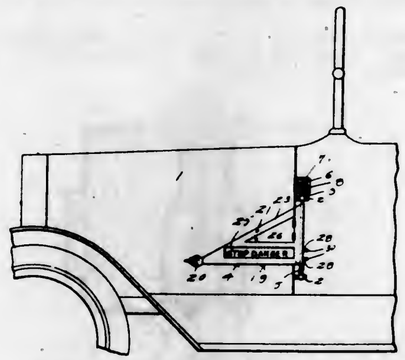
1. A heel grip for shoes comprising a flat pad having an internal fluid-tight air chamber providing a pneumatic cushion, said pad being adapted to be secured about and to cover the major portion of the heel of a shoe.

1,390,569. AIR-GUN. CHARLES F. LEFEVER, Plymouth, Mich., assignor to Daisy Manufacturing Co., Plymouth, Mich., a Corporation of Michigan. Filed Dec. 20, 1920. Serial No. 431,815. 8 Claims. (Cl. 124—8.)



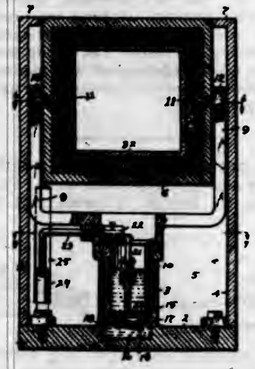
1. In an air gun, the combination with a shooting barrel and a frame rigid therewith, of an air compression cylinder in alinement therewith, a piston in said cylinder, a spring, and means pivoted to said frame for simultaneously compressing said spring and moving said cylinder laterally to expose the breech of the shooting barrel for loading.

1,390,570. INDICATOR. THOMAS LEWIS and FRANKLIN C. SCRIMGER, Pontiac, Mich. Filed Apr. 27, 1920. Serial No. 376,895. 2 Claims. (Cl. 116—52.)



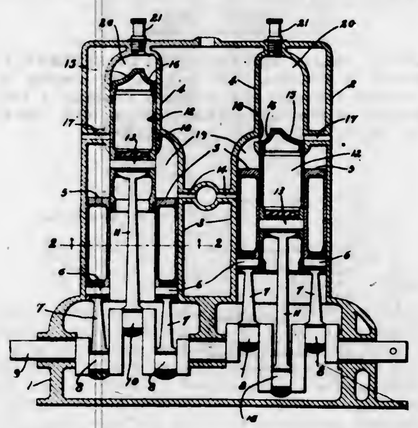
1. An indicator comprising a vertical rotatable shaft, a substantially triangular shaped frame having its bight portion to the shaft, marginal flanges formed on said frame and one flange being of width greater than the others and provided with a doorway, a door for said doorway, character bearing panels secured to the flanges and closing the spaces formed by said flanges and means for imparting movement to the shaft.

1,390,571. SAFE. JOSEPH LOSEKY, Cleveland, Ohio. Filed Aug. 6, 1920. Serial No. 401,640. 5 Claims. (Cl. 109—1.)



1. A safe comprising a main body having a receptacle tiltable about a horizontal axis, means for vertically shifting said receptacle in different positions therein, said receptacle having a door, said door being covered or uncovered upon shifting and tilting said receptacle.

1,390,572. INTERNAL-COMBUSTION ENGINE. LOUIS LEONARD LUCE and LEROY MATTSON, Aberdeen, Wash. Filed Aug. 5, 1920. Serial No. 401,332. 4 Claims. (Cl. 123—65.)



1. A two cycle internal combustion engine including a tubular charging piston, a firing piston mounted for movement therein, a cylinder for each piston, means for reciprocating the pistons in opposite directions respectively, an intake port controlled by the charging piston, means controlled by the firing piston for establishing communication between the cylinders and with the external atmosphere, the cylinder of the tubular piston forming a compression chamber, and means under the control of the user for varying the capacity of the compression chamber.

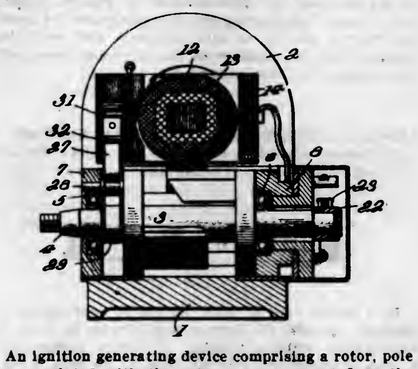
1,390,573. SIGNAL FOR VEHICLES. WALTER W. MCKESKY, Houston, Tex. Filed Dec. 2, 1919. Serial No. 341,890. 1 Claim. (Cl. 116—43.)

A vehicle signal, including a casing, a transparent pane in a wall thereof, rotatable rollers mounted within the casing above and below said pane respectively, a traveling flexible apron mounted on said rollers and arranged to travel behind said pane, a fixed pulley carried by one end of one roller, a fixed and an idler pulley carried by the corresponding end of the other roller, a fixed pulley at the



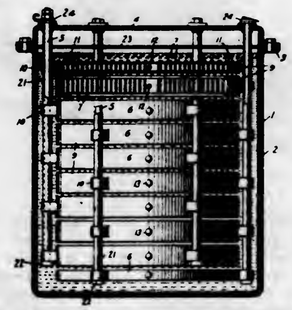
front of the vehicle, an endless cable operating over said pulleys, said idler pulley forming a bearing for the cable, and a foot pedal carried by the vehicle and connected to the cable, through which said cable and said rollers are operated.

1,390,574. IGNITION APPARATUS FOR INTERNAL-COMBUSTION ENGINES. CHARLES THOMAS MASON, Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J., a Corporation of New Jersey. Original application filed Nov. 18, 1918, Serial No. 263,027. Divided and this application filed Oct. 1, 1920. Serial No. 414,052. 5 Claims. (Cl. 128—149.)



1. An ignition generating device comprising a rotor, pole pieces associated with the rotor, a core mounted on the pole pieces, a generating coil mounted on the core, a distributer including a vibrating lever, pins associated with said vibrating lever and connected with the generating coil, means for supporting said pins, said supporting means for the pins being carried by a structure supported on the core, whereby the generating coil and the distributer pins may be removed as a unit.

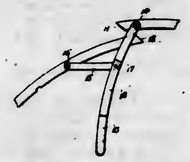
1,390,575. ELECTROLYTIC CELL. FREDERICK H. MILLER, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 5, 1917. Serial No. 159,961. 13 Claims. (Cl. 175—318.)



1. An electrode for electrolytic condensers, lighting arresters, rectifiers and the like comprising a spirally wound

strip of filming material and means integral with the said strip for spacing apart the convolutions of the said strip.

1,390,576. DEMOUNTABLE RIM. ALFRED MINNICK, Newark, N. J., assignor to M-V All Weather Train Controller Company, Wilmington, Del., a Corporation of Delaware. Filed Jan. 22, 1919. Serial No. 272,551. 4 Claims. (Cl. 152—21.)



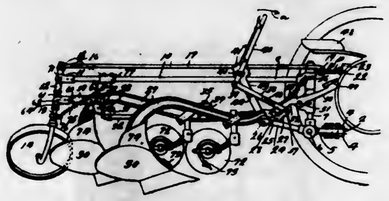
1. A demountable wheel-rim consisting of a split ring having abutting terminals adapted for relative deflection, and a toggle lever having its pivotally connected members respectively pivoted to said terminals and occupying a position between the lines of the inner and outer peripheries of the rim when expanded.

1,390,577. PISTON-RING. LOUIS NAGY, Esterhazy, Saskatchewan, Canada. Filed May 10, 1920. Serial No. 380,437. 1 Claim. (Cl. 74—109.)
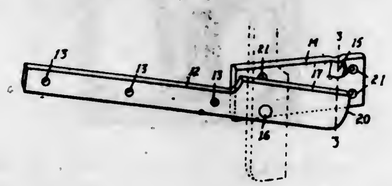


In a piston ring, a joint, formed of overlapping counterparts, dividing the ring ends widthwise in three equal longitudinal sections forming, a bottom section having a flush abutment the full thickness of the ring, a central section having a tongue extending well beyond the bottom section and over half the thickness of the ring and a central notch in the ring extending well back of the tongue, an upper section having cut-away portions extending half the length of the central notch portion and of the same depth thereof.

1,390,578. TRACTOR GANG-PLOW. WILLIAM HIRAM NICHOLS, Lanesville, Ill. Filed Feb. 16, 1921. Serial No. 445,486. 8 Claims. (Cl. 97—67.)



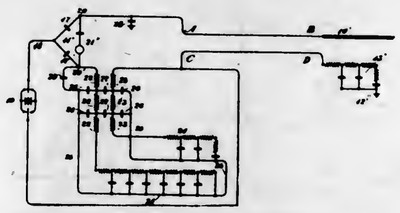
1. A tractor drawn gang plow, said gang plow comprising a standard vertically disposed and carried by a horizontally pivoted member of a tractor, a wheel standard vertically disposed and spaced from the first mentioned standard, a horizontally disposed guy rod having its forward end horizontally pivoted on the tractor supported standard and its rear end pivoted to the wheel standard so that said wheel standard may be moved in a longitudinal vertical plane, a bail pivoted adjacent the tractor supported standard and extending rearwardly, lever means for raising said bail, plow beams disposed beneath the guy rod and pivotally connected to the wheel supporting standard at their rear ends, the forward ends of said plow beams being pivotally connected to the bail raising mechanism and spring means for assisting in the raising of the bail and pulling the lower end of the wheel supported standard forwardly during a plow raising operation.

1,390,579. COMBINATION HINGE AND LID-SUPPORT. RALPH A. NORQUIST, Jamestown, N. Y. Filed Feb. 17, 1921. Serial No. 445,654. 2 Claims. (Cl. 217—60.)



1. In combination with a support, a plate rigidly attached to the support and having its upper free horizontal edge at the rear thereof struck outwardly and at a downward incline to form a rigid stop having a horizontal flat bottom which faces downwardly and a lid supporting bar pivoted to the plate between its ends and having a striking surface on its rear upper face engageable with the bottom of the stop.

1,390,580. MEANS FOR REDUCING INTERFERENCE. HAROLD S. OSBORNE, New York, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Nov. 13, 1918. Serial No. 262,362. 11 Claims. (Cl. 178—63.)

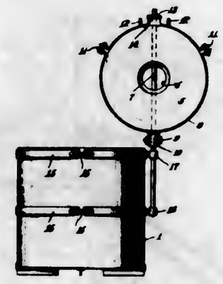


1. In a signal transmitting system, a line conductor, a receiving apparatus connected thereto, a return circuit for said receiving apparatus having an impedance different from that of the line conductor, a pair of conductors connecting the line conductor and the return circuit with said receiving apparatus, and means located between said return circuit and the adjacent end of the conductor connecting it with the receiving apparatus for preventing the receiving apparatus from being affected by voltages induced in said pair of conductors by outside sources.

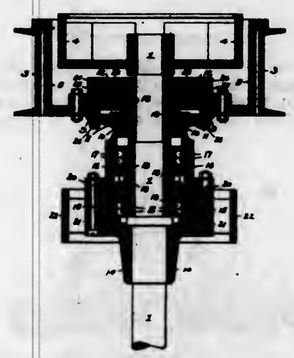
1,390,581. COVER-REMOVING DEVICE FOR FURNACES. ALVA L. PALMER, Jamaica, N. Y. Filed Oct. 24, 1919. Serial No. 332,959. 17 Claims. (Cl. 263—12.)

1. The combination with a furnace having a removable cover, of a rotatable supporting rod to which the cover

is pivotally connected, and a holder attached to the furnace and wherein the supporting rod or carrier is freely rotatable without endwise movement; whereby in removing the cover, it is first swung upwardly on the supporting rod or carrier and the latter then rotated in the holder to locate the cover in any desired position.



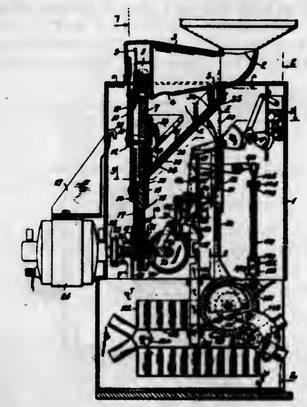
1,390,582. SUSPENSION-BEARING. JOHN PARKER, Philadelphia, Pa. Filed Feb. 27, 1920. Serial No. 361,890. 1 Claim. (Cl. 64—48.)



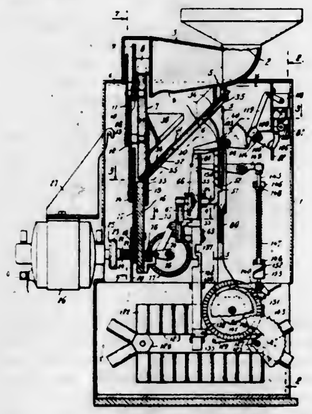
The combination, in a suspension bearing, of a fixed frame, a hanger mounted thereon, a sleeve suspended in a spherical seat on said hanger, an external flange on said sleeve, a spindle passing loosely through said sleeve and being provided, at its upper end, with a driving element, a casing secured to said spindle and embracing said sleeve below its seat, radial bearings interposed between said casing and said sleeve, and suspension bearings interposed between said casing and the flange on said sleeve.

1,390,583. COIN-HANDLING APPARATUS. EDWARD B. PAUL, Lancaster, Pa., assignor to Lancaster Automatic Machine Company, Lancaster, Pa., a Corporation of Delaware. Original application filed Nov. 16, 1918, Serial No. 262,767. Divided and this application filed Mar. 28, 1919. Serial No. 285,929. 17 Claims. (Cl. 226—14.)

1. In a coin-handling machine, a plurality of receptacles adapted to hold coin wrappers, means for supplying coins to the wrappers, a ratchet wheel, a reciprocating coin-controlled member for imparting a step-by-step movement to the ratchet wheel for each coin supplied to a wrapper, means associated with the ratchet wheel whereby the member may produce additional movement of the wheel after a predetermined number of coins have been supplied to the wrapper, and means whereby such additional movement of the ratchet wheel will advance the receptacles to bring an empty wrapper into position to be filled with coins.



1,390,584. COIN-HANDLING APPARATUS. EDWARD B. PAUL, Lancaster, Pa., assignor to Lancaster Automatic Machine Company, Lancaster, Pa., a Corporation of Delaware. Filed Nov. 16, 1918, Serial No. 262,767. Renewed Feb. 25, 1921. Serial No. 447,807. 16 Claims. (Cl. 235—32.)

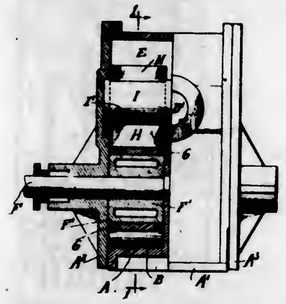


7. Coin-controlled apparatus comprising, in combination, a reciprocating member, an actuating bar, a pivoted member attached to the bar, mechanism for periodically moving said member into engagement with the reciprocating member, a coin pocket, a movable bottom for said pocket, a connection between said bottom and said pivoted member whereby a coin in the pocket will hold the pivoted member in engagement with the reciprocating member to cause the bar to be lifted into actuating position, and means whereby said upward movement of the bar will withdraw the bottom from beneath the coin pocket to permit the coin to be discharged therefrom.

1,390,585. ROTARY COMPRESSOR. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Oct. 6, 1920. Serial No. 415,145. 3 Claims. (Cl. 230—30.)

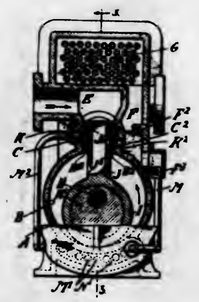
1. A rotary compressor having an eccentric ring piston provided with a slide extension having formed through

it a passage to serve as the admission port of the compressor in combination with a swivel block serving as a guide for the slide and as a closure for the admission port in the slide during the interval between the operative cycles of the piston, the port in the slide and the closing surface of the swivel block being so positioned



and interrelated that the port is open during substantially the whole operative cycle of the piston, a delivery port leading from the cylinder and valve mechanism timed to close said delivery port except during the latter portion of the compression cycle of the piston and at the end of said cycle.

1,390,586. ROTARY COMPRESSOR. GUSTAV B. PETSCHE, Yonkers, N. Y. Filed Oct. 28, 1920. Serial No. 420,082. 3 Claims. (Cl. 230—30.)

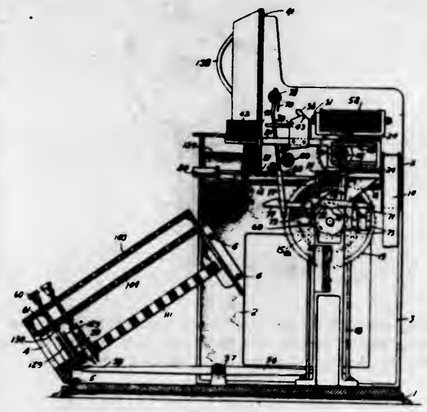


1. A compound compressor comprising a rotary compressor in combination with a second rotary compressor connected to receive and act upon the compressed gas from the first compressor and of such smaller capacity as will receive a substantially equal weight of gas, an intercooler for cooling the compressed gas from the first compressor before its entrance into the second compressor, an oil receiving chamber at the delivery port of the larger compressor, a separate oil cooler connected to said chamber and located at a lower level than the gas cooler and a conduit leading from said cooler to the admission side of the smaller compressor.

1,390,587. MONEY-HANDLING MACHINE. HENRY ROHWER, Seattle, Wash. Filed June 22, 1917. Serial No. 176,271. 14 Claims. (Cl. 133—4.)

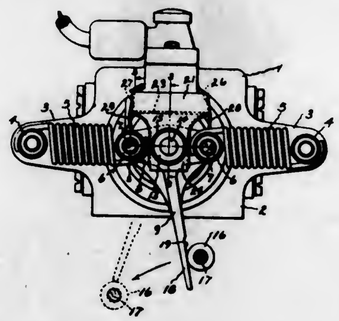
1. In a machine of the character described, the combination of a plurality of receptacles for coins, a plunger for ejecting one or more coins from each receptacle, means for selectively operating each of said plungers comprising a double rack, a gear sector for engaging said racks and means for bringing said racks into engagement with the gear sector and means for operating said gear sector.

3. In a machine of the character described, the combination of a plurality of keys, a circuit common to a plurality of said keys, a switch in said circuit, a plurality of coin receptacles, plungers therefor, a motor for operating



said plungers, a circuit for said motor, a switch in said circuit, means for closing said motor switch and means operated by the motor for opening said first switch immediately after the motor starts.

1,390,588. LUBRICATOR. ADOLPH ROSNER, Springfield, Mass., assignor to American Bosch Magneto Corporation, Springfield, Mass., a Corporation of New York. Filed Mar. 24, 1921. Serial No. 455,144. 21 Claims. (Cl. 184—1.)

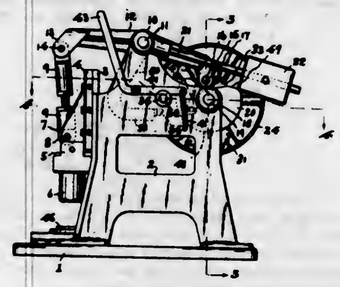


9. In an oscillating device having an oscillatory mechanism including a shaft and a trip lever secured thereto, the combination of an oiler carried by said trip lever to oscillate therewith and comprising a container having a supporting portion, and means for securing said supporting portion to said trip lever, said supporting portion being provided with means for maintaining said oiler in fixed relation to said lever, and means bearing against and supporting the bottom of said container.

1,390,589. POWER-PRESS. LOUIS SAMETZ, Brooklyn, N. Y. Filed Oct. 7, 1920. Serial No. 415,297. 10 Claims. (Cl. 25—87.)

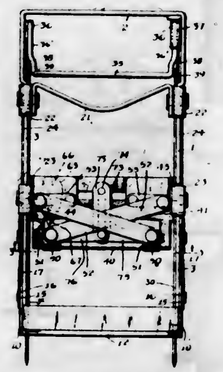
1. In a device of the kind described, a pair of dies, means for mounting one die for vertical reciprocatory movement, a rocking lever for actuating said movable die,

a secondary lever device movable with said rocking lever, a cam for actuating said rocking lever in one direction to produce the operative stroke of said movable die, and



means coöperating with said secondary lever device for actuating said rocking lever in the opposite direction to positively and forcibly initiate a separation of said movable die from the work after operation.

1,390,590. MEASURING AND MOLDING DEVICE. HERMANN J. SCHUBERT, Hackensack, N. J. Filed Dec. 29, 1917. Serial No. 209,419. 14 Claims. (Cl. 107—48.)



1. In a measuring device adapted to separate a portion of merchandise from the bulk thereof, means for cutting through all the contiguous sides and the bottom of the portion to be removed, said cutting means comprising end plates for separating said portion at the ends and oscillating blades for separating at the sides and bottom; and means for discharging said portion intact therefrom.

10. In a measuring device for separating a portion of material from bulk thereof, means for inserting said device to a predetermined depth in said bulk, comprising a handle at one end of said device; cutting blades at the opposite end thereof for cutting the sides of the portion to be removed and shiftable to cut transversely of the device to sever the portion from the bulk, a transverse gage plate intermediate said handle and blades; and means for removing extraneous matter from said plate.

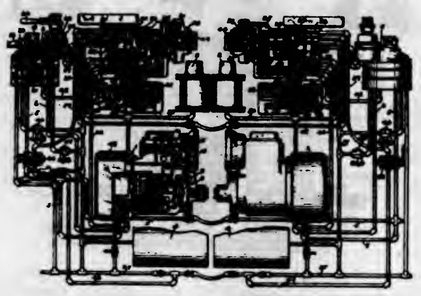
1,390,591. CAR-UNLOADER. EDWARD R. SUTTON, Philadelphia, Pa. Filed Feb. 19, 1920, Serial No. 359,975. Renewed Feb. 14, 1921. Serial No. 445,015. 1 Claim. (Cl. 14—72.)

The combination with a railroad track of a car unloader, comprising a plurality of individual supports of graded heights, braces connecting the individual supports in spaced relation with each other to form an inclined trestle, the bases of each of said individual supports being adapted to be positioned on the track adjacent the car to be unloaded, a gangway positioned on said trestle, means whereby the supports adjacent the car may be adjusted as to height to meet the varying heights of cars and means to



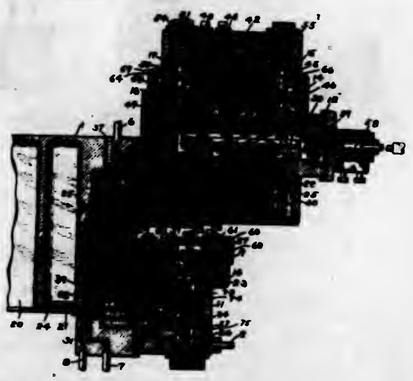
secure the gangway to the track, substantially as shown and described.

1,390,592. LOCOMOTIVE BRAKE EQUIPMENT. THOMAS H. THOMAS, Edgewood, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed May 10, 1919. Serial No. 296,179. 5 Claims. (Cl. 303—14.)



2. In a locomotive brake, the combination with a brake cylinder and a brake equipment at each end of the locomotive for releasing fluid from the brake cylinder, of an additional release valve at each end of the locomotive adapted to be operated by venting fluid pressure from one side for releasing fluid from the brake cylinder, an equalizing pipe adapted to be vented by the release valve, a valve device having one position for establishing communication for varying the fluid pressure on said release valve and another position for connecting the equalizing pipe with the release valve for venting fluid therefrom, and a brake valve for venting fluid from said release valve.

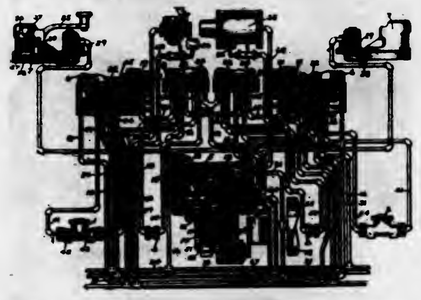
1,390,593. LOAD-BRAKE APPARATUS. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,399. 7 Claims. (Cl. 303—23.)



3. In a load brake equipment, the combination with a brake pipe and three brake cylinders, of a valve device

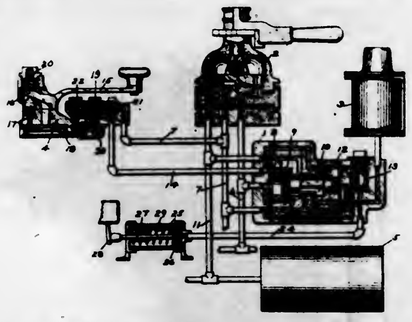
subject on one side to fluid pressure corresponding with the brake pipe pressure and on the opposite side to the pressure of fluid supplied to the first brake cylinder for controlling the supply of fluid to the second brake cylinder, and a valve device subject on one side to fluid pressure corresponding with brake pipe pressure and on the opposite side to the pressure of fluid supplied to the second brake cylinder for controlling the supply of fluid to the third brake cylinder.

1,390,594. SAFETY CAR-CONTROL EQUIPMENT. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Sept. 3, 1919. Serial No. 321,400. 8 Claims. (Cl. 303—6.)



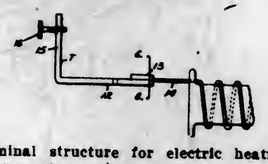
4. The combination with a door engine operated by increasing and decreasing the fluid pressure thereon for controlling an end car door and a door engine operated by increasing and decreasing the fluid pressure for controlling a center car door, of a conductor's controlling valve device having one position for varying the fluid pressure on the door engine controlling the center car door, another position for varying the fluid pressure on the door engine controlling the end car door, and a third position for varying the fluid pressures on both door engines.

1,390,595. SAFETY CAR-CONTROL DEVICE. THOMAS H. THOMAS, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 18, 1919. Serial No. 331,650. 7 Claims. (Cl. 303—6.)



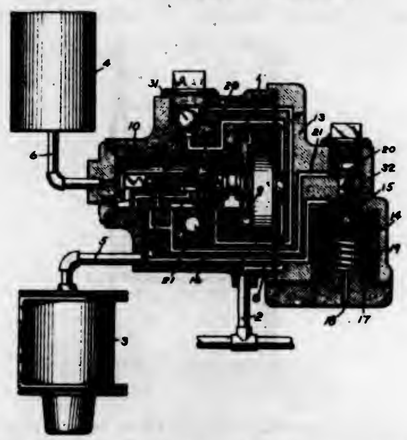
1. In a safety control equipment, the combination with a controller handle, of mechanism effective upon release of the controller handle for applying the brakes and cutting off the power, means operative upon a straight air application of the brakes for rendering said mechanism ineffective, and means for rendering said straight air controlled means ineffective in a power on position of the controller handle.

1,390,596. TERMINAL STRUCTURE AND METHOD OF MAKING THE SAME. FRANK THORNTON, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 13, 1918. Serial No. 222,164. 3 Claims. (Cl. 173—324.)



1. A terminal structure for electric heating devices comprising two plates, one of which is provided with means for securing a line wire thereto, and a conductor of resistance material having a portion at the end thereof clamped between said plates, said plates being electrically welded together along their edges.

1,390,597. FLUID-PRESSURE BRAKE. HENRY HERMAN WESTINGHOUSE, New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed June 14, 1919. Serial No. 304,126. 1 Claim. (Cl. 303—84.)

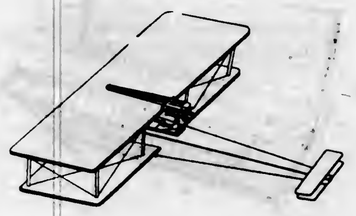


In a fluid pressure brake, the combination with a brake pipe, a brake cylinder, an auxiliary reservoir, and a triple valve device adapted to make its full traverse in a service application of the brakes and comprising a piston and valve means operated upon a reduction in brake pipe pressure for venting fluid from the brake pipe and the auxiliary reservoir to the brake cylinder, of a valve device normally providing a large opening through which fluid is supplied from the triple valve device to the brake cylinder and operated at a predetermined brake cylinder pressure for closing said opening, a restricted port being provided through which fluid is supplied to the brake cylinder when said large opening is closed.

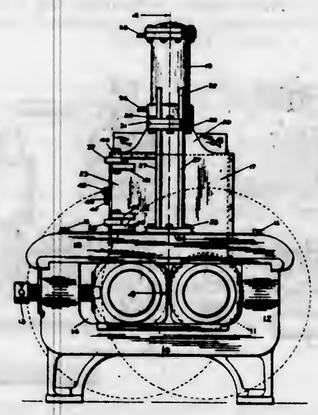
1,390,598. PARACHUTE. FRANK BAKER, Pimlico, London, England. Filed Oct. 6, 1919. Serial No. 328,881. 3 Claims. (Cl. 244—21.)

1. A releasable parachute mounting for aeroplanes and the like including in combination with the upper wing of the plane, a bracket carried by the latter and consisting of arms having spring clutch elements at the ends thereof, a parachute including a mast having rollers at one end adapted to be releasably held by the said clutch elements, a device for restraining the parachute in position and also releasing the same, said device consisting of a holding band pivoted at one side of the parachute

and adapted to be disposed transversely thereof, a manually operated lever for releasing the free end of said band, a plunger placed under compression when the parachute is held beneath the said strap, an arm carried by the mast of the parachute, a tension spring engaging the arm and tending to lift the parachute, and a flexible load connector also carried by the parachute mast.



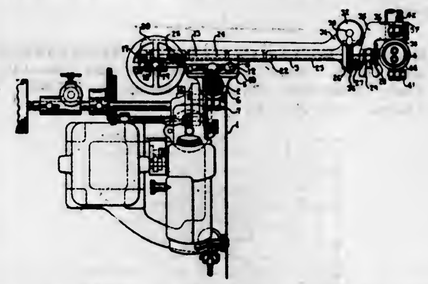
1,390,599. RUBBER-CRACKER. DAVID R. BOWEN, Ansonia, Conn., assignor to Farrel Foundry & Machine Company, Ansonia, Conn., a Corporation of Connecticut. Filed July 11, 1919. Serial No. 310,021. 30 Claims. (Cl. 18—2.)



1. A rubber treating machine having rolls arranged to receive bulk rubber and discharge the same in sheet form and means for applying pressure to the stock being fed to the rolls.

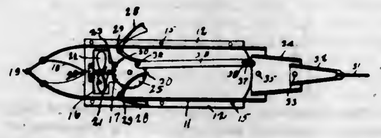
1,390,600. TORCH-ADJUSTER ARM. WORTHY C. BUCKNAM, Jersey City, N. J., assignor to Davis-Bournonville Company, New York, N. Y., a Corporation of New York. Filed July 1, 1920. Serial No. 393,358. 17 Claims. (Cl. 263—23.)

1. A torch-adjuster arm of the character described, comprising a primary bracket, a horizontally extending arm member, vertical and horizontal slide means and adjusting devices whereby said arm member is adjustable up and down and in and out relatively to the primary bracket, a torch-holder, and a swivel on the outer end of the arm member carrying the torch-holder and enabling



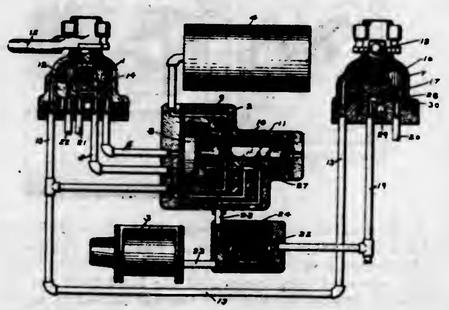
the torch to be tilted forward and rearward in a plane transverse to the arm member.

1,390,601. ARTIFICIAL BAIT. JOHN C. CALDWELL, Miami, Fla. Filed Sept. 12, 1919. Serial No. 323,242. 5 Claims. (Cl. 43—43.)



1. In a device of the character described, the combination of a body, a disk rotatable within said body, means for rotating the disk, movable members pivoted upon said body adjacent the forward and rear portions thereof, the movable members and the forward portion of the body projecting above the disk, link means connected to the disk and to the movable members at the rear portion of the body whereby as the disk is rotated, the link means will swing the movable members at the rear portion of the body and will strike the movable members extending above the disk to cause the movement of all of said movable members, as set forth.

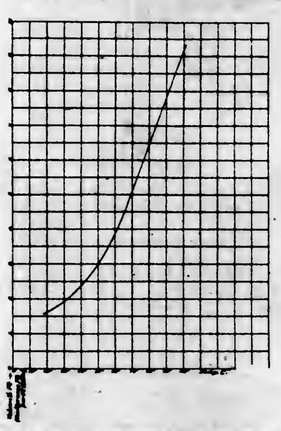
1,390,602. SAFETY CAR-CONTROL DEVICE. CHRISTOPHER P. CASS, St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Apr. 2, 1920. Serial No. 370,756. 3 Claims. (Cl. 303—6.)



1. The combination with a brake cylinder, of a brake valve device for controlling the supply of fluid under pressure to the brake cylinder for effecting a straight air application of the brakes, a manually operated valve device for controlling the supply of fluid under pressure

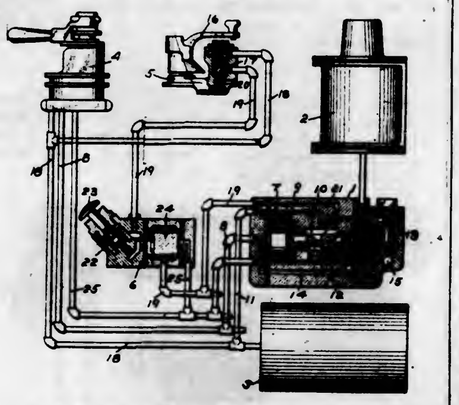
for operating a car door, and a double check valve device operated by fluid supplied for controlling the car door for opening communication for supplying fluid to the brake cylinder.

1,390,603. PROCESS OF TREATING LEAD-CARBONATE ORES. NIELS C. CHRISTENSEN, Salt Lake City, Utah. Filed Sept. 30, 1919. Serial No. 327,403. 9 Claims. (Cl. 75—18.)



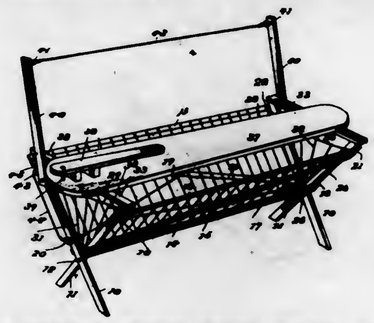
1. The process of treating carbonate ores of lead which consists in treating said ores with a concentrated solution of sodium chlorid containing iron salt in solution and thereby dissolving the lead.

1,390,604. SAFETY CAR-CONTROL DEVICE. JOSEPH M. DAPRON, St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed July 15, 1919. Serial No. 311,110. 5 Claims. (Cl. 303—19.)



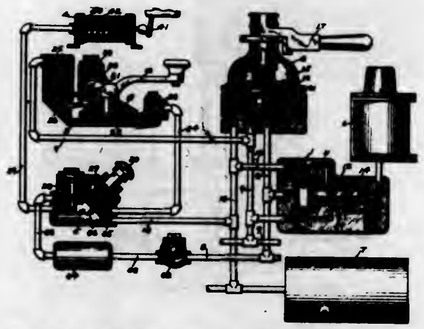
1. In a safety car control equipment, the combination with a relay valve for effecting an emergency application of the brakes, a safety control pipe, and a controller handle device operated upon removal of the hand from the controller handle for venting fluid through the safety control pipe, to operate said relay valve, of a straight air pipe and means operated by straight air pressure for cutting off communication from the relay valve through said safety control pipe to said controller handle device and for opening communication from the relay valve to the straight air pipe.

1,390,605. COMBINATION-STAND. LUCKEY C. DAVIS, Boley, Okla. Filed Nov. 21, 1918. Serial No. 263,573. 2 Claims. (Cl. 68—10.)



1. A stand of the character described including pairs of crossed pivotally connected supporting legs, side bars connecting and supporting said pairs of legs in spaced relation, cross strips extending between the upper ends of the legs of said pairs and supporting said legs extended at their upper extremities, a flexible element connected to said side bars and forming the side walls of a basket having cross strands at the ends of said side walls, and flexible elements connected to said cross strands to form end walls for the basket, the strands of said latter flexible elements being held under tension by the cross strips.

1,390,606. SAFETY CAR-CONTROL EQUIPMENT. CLYDE C. FARMER, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Oct. 15, 1919. Serial No. 330,785. 8 Claims. (Cl. 303—6.)



7. In a safety car control equipment, the combination with a controller handle, a pilot valve, and means for normally operating said pilot valve and operated upon release of the controller handle, of means operated by fluid under pressure for effecting the opening of the power circuit, an emergency brake pipe, a reduction in pressure in which effects an emergency application of the brakes, a relay valve controlled by said pilot valve for venting fluid from the emergency brake pipe to said means, a reservoir, through which fluid flows from the emergency brake pipe to the relay valve, and a check valve for preventng back flow from the reservor to the emergency brake pipe.

1,390,607. ELECTRIC CONTACT DEVICE. CLYDE C. FARMER, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a Corporation of Pennsylvania. Filed Dec. 10, 1919. Serial No. 343,950. 2 Claims. (Cl. 173—332.)

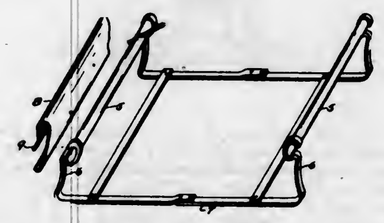
2. In an electric train line coupling, the combination with a coupler head, of a butt contact member mounted

in said head and adapted to be depressed by engagement with a corresponding contact member in a counterpart coupler head and means operated by the coming together



of said contact members for producing a relative rotative movement between the coacting faces of said contact members, the central portion of the meeting face of the contact member being cut away.

1,390,608. FASTENER FOR BLANKETS, QUILTS, &c., FOR BABY-CRIBS. WILLIAM E. FLEMING, Los Angeles, Calif. Filed Jan. 20, 1920. Serial No. 352,785. 2 Claims. (Cl. 5—22.)



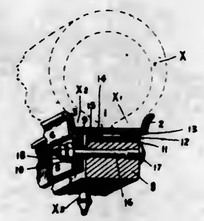
1. A bed clothes holder comprising a frame adapted to be arranged transversely of a bed frame with its end portions supported by the side rails of the bed frame, socket members carried by the ends of said frame and positioned adjacent to the side rails of the bed frame, said socket members being continuous from end to end and substantially C-shaped in cross section with their open sides outwardly presented, and retaining members adapted to be removably positioned in said C-shaped socket members, which retaining members are substantially C-shaped in cross section of smaller cross sectional area than the socket members and being provided with continuous inclined lip portions to facilitate their insertion within and removal from the socket members.

1,390,609. COTTER-PIN, LINCH-PIN, AND THE LIKE. ARTHUR GRAHAM FRANCE, London, England. Filed Aug. 21, 1919. Serial No. 319,035. 3 Claims. (Cl. 74—8.)



1. In combination with a bolt having a transverse opening and a nut on said bolt, a pin in said opening and arranged with its head and tail projecting from opposite sides of the bolt and bearing on the nut, said pin having a shank comprising a single solid undivided strip of metal provided with a hump of a length not greater than the length of the opening in the bolt, said hump being formed by bodily displacing the metal shank out of normal plane, and said opening being of a diameter greater than the thickness or width of the shank of the pin.

1,390,610. SEPARABLE RIM FOR TIRES. RICHARD GARNETT, Oakland, Calif. Filed Jan. 24, 1918. Serial No. 213,488. 1 Claim. (Cl. 301—11.)



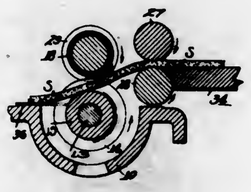
A tire rim adapted to be removably mounted upon the felly of a wheel comprising an annulus having an outwardly extending flange on one edge and an inwardly extending flange on the opposite edge thereof; a plurality of hollow externally threaded bushings spaced around the surface of said inwardly extending flange and projecting laterally therefrom through which securing means fastened onto the felly are adapted to pass; a retaining flange provided with a plurality of openings engaging said hollow means and having an attaching portion engaging said inwardly extending flange; a plurality of nuts adapted to threadedly engage said externally threaded bushing for securing said retaining flange to said inwardly extending rim flange.

1,390,611. HOG-OILER. CHARLES A. HAISLEY, Richmond, Ind. Filed Feb. 15, 1921. Serial No. 445,170. 4 Claims. (Cl. 119—157.)



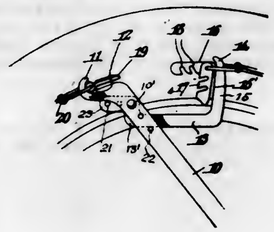
1. A hog oiler comprising a base, a standard projecting upward from the base, a drum mounted around the standard and adapted to revolve and to slide endwise thereon, a spring supporting the drum, an oil reservoir mounted on the upper end of the standard, a valve located in the bottom of the reservoir and adapted to be opened by the upward movement of the drum, substantially as set forth.

1,390,612. LEATHER-CUTTING MACHINE. THOMAS F. HICKEY, Shrewsbury, Mass. Filed May 29, 1919. Serial No. 300,511. 1 Claim. (Cl. 164—61.)



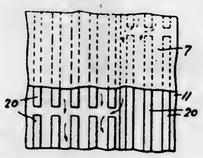
A leather cutting machine comprising a cutting shaft having a series of spaced disk knives thereon, a grooved shaft coöperating with said knives, a pair of feed rolls spaced from said shafts and engaging the stock as it approaches the knives, and means to drive said cutters at a certain surface speed, and to drive said feed rolls at a slower surface speed.

1,390,613. SKID-CHAIN TIGHTENER. ELMER L. HILL, Rapelje, Mont. Filed May 22, 1920. Serial No. 383,421. 1 Claim. (Cl. 254—78.)



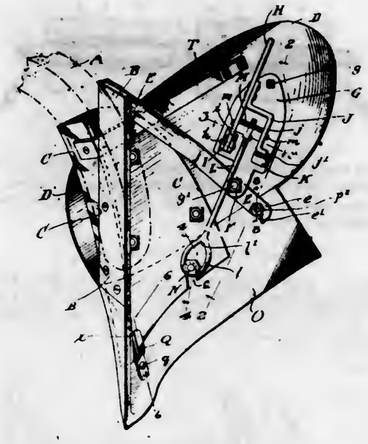
A skid chain tightener comprising a frame including a long arm having a terminal hook and a short arm spaced materially therefrom and having a right-angular extension directed away from the first arm and provided with a longitudinal series of perforations, and a lever having a hook at one end in opposed relation to the first-named hook, and a pivot passed through the lever and one of said perforations and adjustable from one to another thereof.

1,390,614. GLASS-TANK FURNACE. JOSEPH E. HURLEY, Jeannette, Pa. Filed June 15, 1920. Serial No. 389,191. 4 Claims. (Cl. 49—54.)



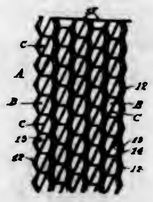
1. A glass tank furnace comprising tanks forming the walls thereof, means for supplying water to said tanks, a fibrous facing on the inner walls of said tank, and a passage formed between said walls of said tank and said facing, said passage communicating with said tank.

1,390,615. PLOW. RICHARD M. IVERSON, Rock Island, Ill. Filed Mar. 23, 1920. Serial No. 368,086. 2 Claims. (Cl. 97—18.)



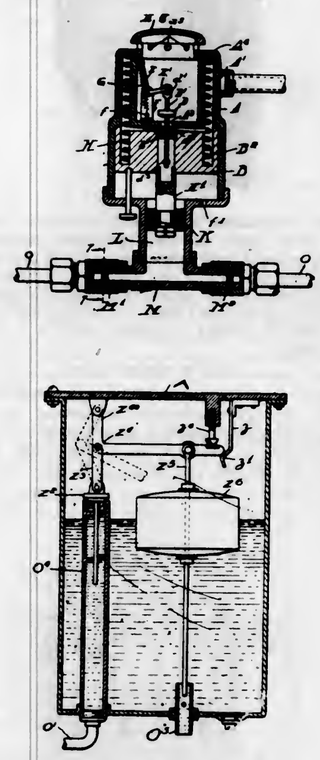
1. A plow, comprising a frog having a slotted portion, a mold-board, a land-side, and a detachable share, and means for connecting the share with the frog, the mold-board and the land-side, comprising a projection on the share adapted to enter the slot in the frog, a connecting rod having an elongated loop engaging said projection, a bracket secured to the mold-board and carrying a bifurcated standard, a brace on the bracket, a lever pivotally connected with said standard and provided with an arm engaging the brace, and a connecting rod adjustably connected with the lever and having a looped end engaging a projection on the share.

1,390,616. RADIATOR FOR MOTOR-VEHICLES. HARRY JAFFE, Chicago, Ill., assignor to Jaffe Radiator Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 29, 1919. Serial No. 341,488. 8 Claims. (Cl. 257—130.)



1. A radiator core, including, in combination, a series of vertically disposed, spaced apart, water tubes, and a series of filler strips in the spaces between the water tubes, said water tubes being transversely crimped, said filler strips comprising each a ribbon of sheet metal, said ribbon having a saw-tooth formation affording horizontally disposed members alternating with obliquely arranged members, the horizontally disposed members contacting with the apexes of oppositely located crimps of the water tubes, the obliquely arranged members extending diagonally through the space between adjacent water tubes, and from an apex thereof on one side to the next adjacent apex on the other side.

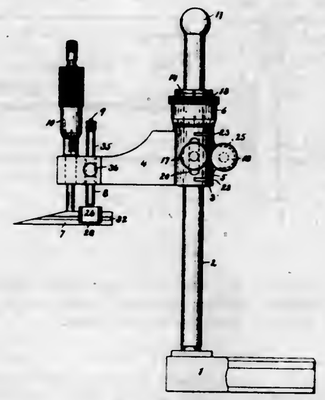
1,390,617. SUCTION-ACTUATED PUMPING DEVICE. WEBB JAY, Chicago, Ill. Continuation in part of application Serial No. 89,524, filed Apr. 7, 1916. This application filed May 10, 1917. Serial No. 167,638. 11 Claims. (Cl. 103—67.)



1. In combination, a large cylinder and a small cylinder; a large piston and a small piston rigidly connected together and operating in said cylinders respectively, the large cylinder having at the same side of the piston therein, two independent ports, one for atmosphere inlet and the other for suction connection; valve means operated by the piston movement for alternating the dominance of the suction and atmospheric pressure through said ports respectively, and valve-controlled inlet and discharge passages for the small cylinder.

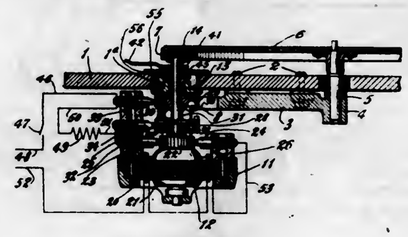
1,390,618. MICROMETER HEIGHT-GAGE. LYMAN E. JENNISON, West Springfield, Mass. Filed July 10, 1920. Serial No. 395,302. 6 Claims. (Cl. 33—169.)

1. The combination, in a micrometer height gage, with a suitably supported shaft, a bushing mounted on said shaft for circumferential and vertical adjustment, said bushing being provided with a nipple, and a thumb-screw tapped into and through said nipple and adapted to bind said bushing to said shaft, of an arm having a sleeve



mounted on said bushing, and means to bind said sleeve to said bushing.

1,390,619. SPEED-GOVERNOR FOR ELECTRIC MOTORS. GEORGE MCD. JOHNS, St. Louis, Mo., assignor to Machine Products Company, St. Louis, Mo., a Corporation of Missouri. Filed May 21, 1918. Serial No. 235,766. 6 Claims. (Cl. 200—80.)

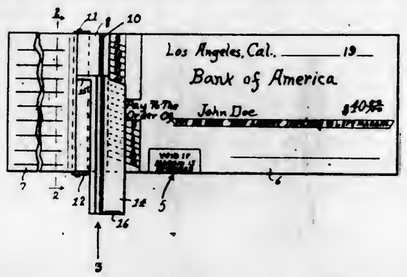


3. The combination with a motor and its circuit, of a first rotary ring, a second rotary ring, a pair of stationary brushes engaging electrically with the rings and both normally included in the motor circuit, a contact-member carried by the first ring, a yieldingly held switch arm pivoted for movement upon the first ring and having electrical engagement with the second ring, the arm being adapted normally for contact with said member to complete the motor circuit through both the brushes and the rings and for centrifugal movement out of contact with said member to break the circuit through the rings as the motor speeds up, and a resistance having electrical connection with the brush of the second ring and normally in shunt of a part of the circuit, the resistance being automatically thrown into the circuit, and the circuit being completed through the resistance, on a breaking of the circuit through the rings.

1,390,620. CHECK-PROTECTOR. ORTON R. JONES, Monrovia, Calif. Filed May 24, 1920. Serial No. 383,828. 1 Claim. (Cl. 33—83.)

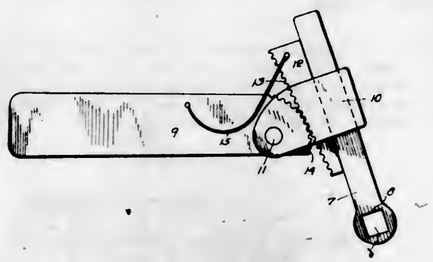
A check protector for checks having vertical rows of figures indicating various amounts in dollars, said protector including a base plate having lugs at the ends thereof and a longitudinal rib with an enlarged head, a

back strip having ends turned at right angles to the main portion, said ends having apertures therein in



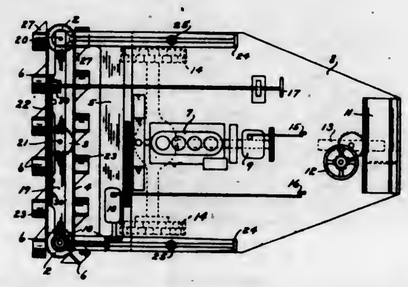
which are received the lugs of the base plate; and a cutter plate having a portion bent to fit upon the rib of the base plate and a stop lug at its upper end.

1,390,621. EXTENSION ADJUSTABLE HANDLE. GOTTLIEB L. E. KLINGBEIL, Omaha, Nebr. Filed Jan. 6, 1921. Serial No. 435,558. 4 Claims. (Cl. 74—39.)



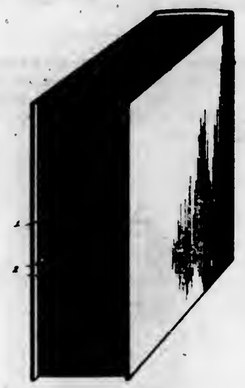
1. A device of the character described comprising a two part handle one of which constitutes an operating extension of the other, means to which one of said parts is pivoted and which embraces the other of said parts and a wedge adapted to engage between said parts.

1,390,622. METHOD OF AND APPARATUS FOR REMOVING SNOW. ADOLPH F. KAUBERA, Milwaukee, Wis. Filed Apr. 26, 1920. Serial No. 376,487. 22 Claims. (Cl. 37—62.)



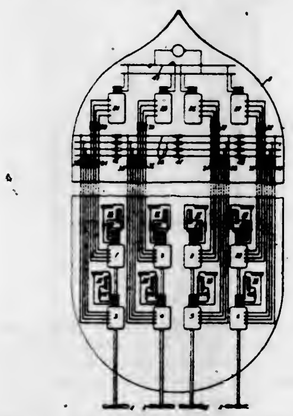
1. The process of removing snow from highways, which comprises, rapidly successively removing relatively narrow transverse vertical strips of the snow, elevating the removed snow, and hurling the elevated snow toward the side of the highway.

1,390,623. BOOK-INDEX. PAUL O. KUEHN, South Bend, Ind. Filed Feb. 21, 1919. Serial No. 278,474. 2 Claims. (Cl. 283—36.)



1. The combination with a book having a plurality of leaves, of an index therefor, said index forming finger engaging recesses, said index consisting of indicia formed by removing portions of the edges of contiguous leaves in such a manner that when the contiguous leaves are in engagement with each other, a complete outline of the indicia will be formed in sunken relation to the edges of the leaves.

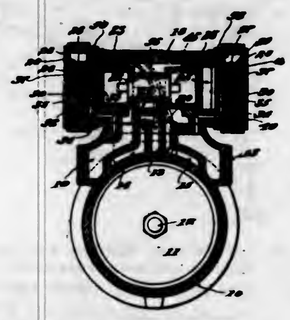
1,390,624. SYSTEM OF ELECTRICAL SHIP PROPULSION. BENJAMIN G. LAMME, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 29, 1918. Serial No. 242,621. 7 Claims. (Cl. 172—274.)



1. A motor aggregate comprising a plurality of induction motors having their rotor members rigidly coupled together, each of said motors having a polyphase primary member and a single-phase secondary member, and means for cophasially energising the primary windings of said motors, said coupling being such that the torque impulses in said secondary members are noncoincident.

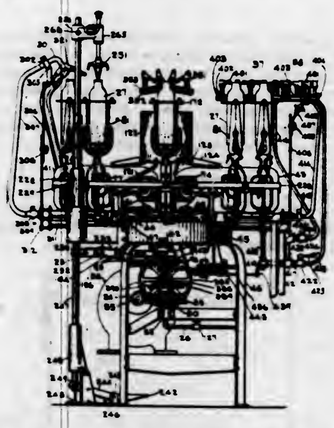
7. A system of control comprising a plurality of induction motors having polyphase primary and secondary windings, respectively, and having their rotors rigidly coupled together, means for operating said motors with polyphase secondary connections to produce a speed near synchronism, and means for operating said motors with single-phase secondary connections to produce a materially lower speed, the phase relations of the single-phase secondary connections being selectively displaced to maintain a substantially uniform collective distribution of torque by said rotors.

1,390,625. INTERNAL VALVE-GEAR FOR STEAM-ENGINES. JOHN A. LE CAIN, Malden, Mass. Filed June 17, 1919. Serial No. 304,782. 11 Claims. (Cl. 121—158.)



1. A fluid pressure engine comprising a main steam cylinder, a slide-valve, a connected valve-plunger, two separate and independently operable auxiliary valves each controlling the inlet and exhaust of steam at one end respectively of the plunger, and means controlled by the slide-valve for controlling the movements of the auxiliary valves and the inlet and exhaust of steam to and from the main cylinder.

1,390,626. METHOD OF AND APPARATUS FOR MANUFACTURING GLASSWARE. ERICK P. LINDAHL, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Filed Oct. 14, 1918. Serial No. 257,999. 51 Claims. (Cl. 49—7.)



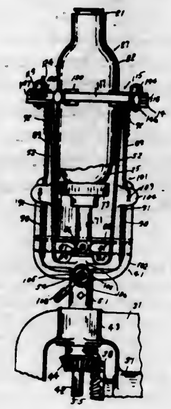
1. The method of sealing the mouth-end of a double walled frangible vessel which consists in heating the ends to be sealed thereby rendering the same plastic and rotating said ends at a speed of rotation to produce spreading action by the inner edge upon the outer edge by centrifugal force.

11. The method of sealing the mouth-edge of a double walled frangible vessel comprising an inner wall and an outer wall, which includes rotating the mouth-edges of said inner wall and of said outer wall in the presence of heat, and then accelerating said rotations in the presence of higher heat directed with greater intensity upon said mouth-edge of said inner wall than upon the mouth-edge of said outer wall to render said mouth-edge of said inner wall more plastic than said mouth-edge of said outer wall and spreading said mouth-edge of said inner wall by centrifugal force toward said mouth-edge of said outer wall.

16. In apparatus for manufacturing glassware of the character described, the combination of a carrier, blank-supports thereon, means for intermittently moving said carrier and locating the same in at-rest positions, manual control means for said last-named means, means for rotating said blank-supports, an operating tool arranged to be received on a rotating blank while said carrier is in at-rest position, and means for removing said tool from said blank having connection with said manual control means.

37. In means for manufacturing glassware of the character described, the combination of a carrier, blank-supports thereon, driving means for intermittently moving said carrier and locating the same in at-rest positions at a plurality of stations, said stations including a blank-centering station, a centrifugal station and a plurality of sealing stations, a blank centering means at said blank-centering station, heating means at said centrifugal station, heating means at each of said sealing stations, an operator's station between said centrifugal station and one of said sealing stations, means proximate to said operator's station having connection with each of said heating means for separately controlling the same, control means at said operator's station having connection with said driving means and said blank centering means for respectively controlling the same, and means for rotating said blank-supports at said centrifugal station and at said sealing stations, said means comprising means for rotating the blank-support at said centrifugal station with accelerated speed with relation to the speeds of rotation of the blank-supports at said sealing stations.

1,390,627. CHUCKING MECHANISM. ERICK P. LINDAHL, Cincinnati, Ohio, assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio, a Corporation of West Virginia. Original application filed Oct. 14, 1918, Serial No 257,999. Divided and this application filed Dec. 29 1919. Serial No. 348,028. 21 Claims. (Cl. 49—64.)



1. In chucking mechanism of the character described, the combination of a blank-holding means comprising a clamp and a plate so mounted that the clamp may be shifted laterally with relation to the plate and the plate rocked with relation to the clamp by pressure of a blank within the holding means.

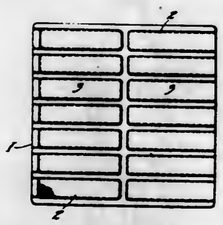
21. In chucking mechanism, a blank-holding means for a blank comprising an inner member and an outer member, said blank-holding means comprising a frame having a base, a suction-chuck in said frame for one end of the inner member, a yieldable plate, links and springs for supporting said plate from said frame, a rockable plate for the same end of said outer member pivoted to said plate, clamps for said links pivoted to said frame, said base having a passage for said suction-chuck, a valve therefor the movable member whereof has means thereon for operating said clamps, a clamp on said frame for said outer member, said clamp comprising relatively hinged members, closing means for the latter, and resiliently yieldable shoes for the outer member, means for lateral shifting of said clamp in all directions on said frame with relation to said suction-chuck, and adjustable spring means for resisting said shifting of said clamp.

1,390,628. WATER-EXCLUDING DEVICE FOR BATHING-CAPS. ISAAC W. LITCHFIELD, Newtonville, Mass. Filed May 28, 1917. Serial No. 171,399. 4 Claims. (Cl. 2—106.)



1. A water-excluding device for bathing caps including an inflatable tube, a band adapted to be detachably secured to the cap to hold said tube in contact with the cap on the head of the wearer to press the rim of the cap in water-tight engagement with the head, means detachably securing said tube to said band, and means to inflate said tube.

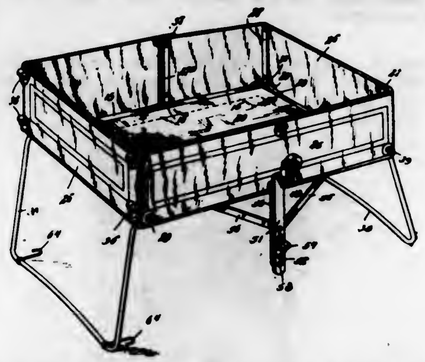
1,390,629. ELECTRODE-PLATE FOR STORAGE BATTERIES. LAMAR LYNDON, West Orange, N. J., assignor to Edison Storage Battery Company, West Orange, N. J., a Corporation of New Jersey. Filed Apr. 30, 1919. Serial No. 293,793. 5 Claims. (Cl. 204—29.)



1. An electrode plate for storage batteries, comprising a pair of thin sheets connected together and provided with integrally formed opposed registering pocket sections, whereby the plate element so formed is provided with a plurality of pockets for the active material, and an apertured grid rigidly secured to said sheets with the openings thereof respectively taking over said pockets, substantially as described.

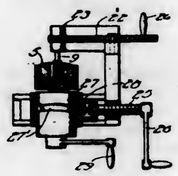
1,390,630. FOLDING CRIB. HARRY CHAS. MCCORD, Baltimore, Md. Filed Mar. 15, 1921. Serial No. 452,412. 3 Claims. (Cl. 5—58.)

1. A folding crib comprising a frame formed in separate sections and hingedly secured together, means for preventing the sections from folding, foldable supporting legs connected to the frame, a foldable bottom, side and end walls secured to the frame, means for supporting



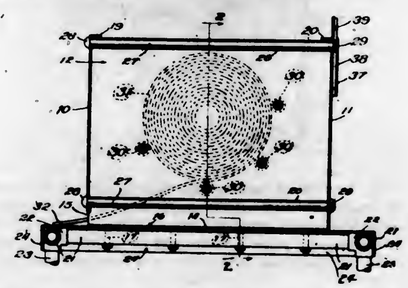
the foldable side and end walls, said means including pivotally mounted standards and means engageable with the standards for holding the latter in upright position.

1,390,631. METHOD OF MAKING BOLT-NUTS. CLIFFORD P. MARYE, Chicago, Ill., assignor to Marye Safety Nut Corporation, a Corporation of Illinois. Filed Feb. 1, 1919. Serial No. 274,447. 2 Claims. (Cl. 10—154.)



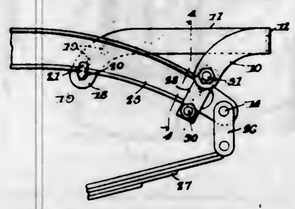
2. Steps in the method of forming screw threads which consist in producing the threads of all of the convolutions of a threaded object coincidently by continuing the thread producing operation circumferentially throughout the threaded region and axially advancing the thread formation at an inconstant speed rate during said operation to produce an anomalous thread spiral.

1,390,632. DISPLAY AND VENDING CASE. MYER METZGER, Chicago, Ill. Filed May 7, 1920. Serial No. 379,441. 7 Claims. (Cl. 211—18.)



1. A device of the character described embodying an open receptacle constructed of thin sheet material, and one or more upright partitions within and dividing the receptacle into a plurality of compartments, said partitions being constructed of sheet material and terminating short of the bottom of the receptacle, one of the receptacle walls which extends transversely of the partitions terminating short of the bottom of the receptacle to form a dispensing opening extending substantially the width of the receptacle and through which opening the material is dispensed from the compartments.

1,390,633. BUMPER-BRACKET. EDGAR A. MILHAUPT, Appleton, Wis. Filed June 17, 1921. Serial No. 478,294. 4 Claims. (Cl. 293—55.)



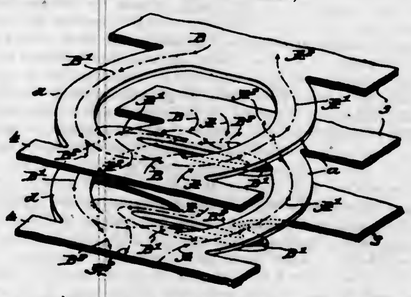
2. A bumper bracket comprising a transverse member, an extended longitudinal arm at one end of said transverse member having a downwardly bent apertured portion, and a shorter longitudinal arm at the other end of said transverse portion downwardly bent and apertured at its free end.

1,390,634. DETACHABLE LINING FOR MUD-GUARDS. RALPH E. MOSHER, Aurora, N. Y. Filed Apr. 9, 1920. Serial No. 372,558. 2 Claims. (Cl. 280—153.)



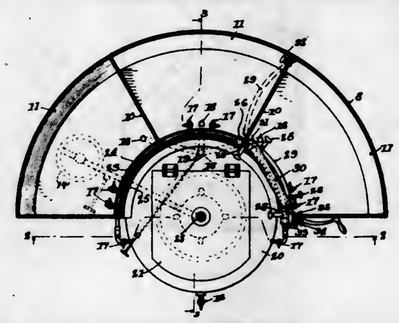
2. A protective covering for the inner surface of mud guards comprising a water proof lining, means to hold the lining to the mud guard, and a series of longitudinally extending cords transversely spaced apart and extending the full length of the covering and adapted to be pulled downwardly for removing the material from the mud guard.

1,390,635. STORAGE-BUILDING. BENJAMIN F. MULLANEY, Boston, Mass., assignor to James Purdon, trustee, Boston, Mass. Filed Jan. 12, 1921. Serial No. 436,653. 16 Claims. (Cl. 20—1.18.)



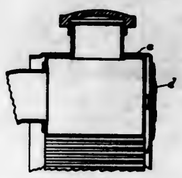
3. A multiple-story storage building having therein upgoing and down-going intersecting spiral ways defining respectively a substantially continuous left handed and right handed spiral, whereby traffic revolves about the respective spiral axes in the same direction, the spiral ways having levels coincident with each other and the respective floors.

1,390,636. WASHING APPARATUS. MARY FRANCES MUNZ, Milwaukee, Wis. Filed Apr. 9, 1918. Serial No. 227,548. 1 Claim. (Cl. 68—31.)



A washing apparatus comprising a main tub, a semi-circular receptacle within the inner arc of which said main tub is secured, said main tub having its bottom and top disposed on a plane above that of the bottom and top of said semi-circular receptacle, partitions in said receptacle to form a plurality of auxiliary tubs, all of said tubs forming a unitary structure, and water supply and discharge means connected with the tubs.

1,390,637. NAME-PLATE ATTACHMENT. OLOF NELSON, Attleboro, Mass., assignor to The Robbins Company, Attleboro, Mass., a Corporation of Rhode Island. Filed July 5, 1921. Serial No. 482,461. 2 Claims. (Cl. 40—20.)

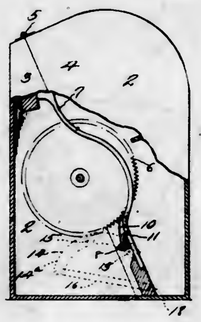


1. The attaching device above described, consisting of a pair of tangs, their free ends spreading from a common center in opposite directions, and a second pair of tangs perpendicular to the back of the plate to be attached, both pairs of tangs being secured upon the back of the plate to be attached; a socket member having apertures to receive the said tangs and surfaces against which the spreading ends of the one pair of tangs impinge, in application, to spread said tangs into locking position, and guide them to the tang receiving apertures.

1,390,638. GIN-CLEANER. LESLIE SYDNEY POPE, Raymond, Wash. Filed Nov. 5, 1920. Serial No. 421,907. 1 Claim. (Cl. 13—15.)

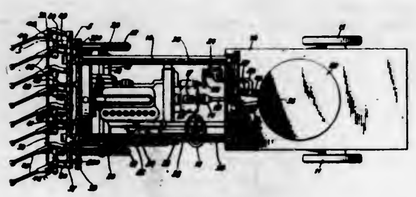
The combination with a gin having rotatable saws therein, of a saw cleaning device therefor, said saw cleaning device comprising a bar extending transversely of the gin and disposed beneath the saws, upwardly extending fingers carried by the bar, the ends of said cleaner bar being rectangular shaped and slidably mounted in seg-

mentally shaped upwardly extending slots in the sides of the gin, a lever pivoted to the sides of the gin at a point centrally of the lever, one end of said lever being



provided with a bifurcation in which the ends of the cleaner bar are disposed and means for rocking said lever for forcing the cleaner bar upwardly and the cleaner fingers into a position for cleaning the teeth of the saws.

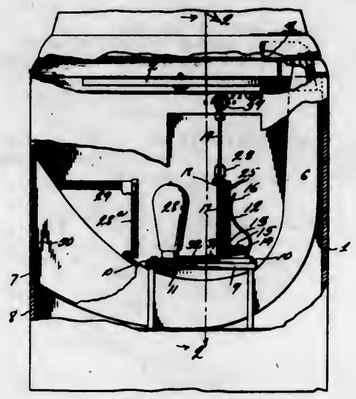
1,390,639. MACHINE FOR CLEANING AND TREATING STREETS. JAMES S. PORTER, Buffalo, N. Y. Filed May 10, 1919. Serial No. 296,268. 1 Claim. (Cl. 126—271.2.)



In a machine of the character described, the combination of a plurality of vertically movable flame delivery nozzles, a vapor supply pipe, a flexible connection between said supply pipe and delivery nozzles, and means for raising and lowering said delivery nozzles comprising a transverse rod on which said nozzles are supported, rock arms carrying said rod, a rock shaft to which said arms are secured, an intermediate arm connected with said shaft, and an operating lever connected with said intermediate arm.

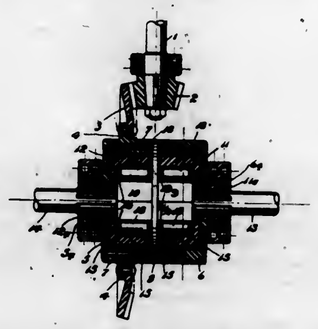
1,390,640. COMBINED PHONOGRAPH AND PICTURE-PROJECTOR. ANDREW RASMUSSEN, Jr., Salt Lake City, Utah. Filed Mar. 8, 1921. Serial No. 450,541. 4 Claims. (Cl. 88—28.)

1. A combined phonograph and picture projector comprising a rotatable disk, a tone arm movable adjacent said disk, said tone arm terminating in a downwardly and outwardly extending amplifier, the outer end of said amplifier curving outwardly, a vertically disposed lens carried in a housing of said amplifier and in alinement with a screen disposed in the amplifier end, a plurality of pictures disposed behind the lens and means for intermittently chang-



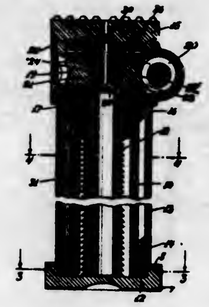
ing said pictures, said means being controlled by the tone arm.

1,390,641. DIFFERENTIAL GEARING. BAYARD E. RICHARDSON, Grand Rapids, Mich., assignor to Mechano Gear Shift Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Aug. 9, 1919. Serial No. 316,350. 2 Claims. (Cl. 74—7.)



2. In combination, a drive shaft, a hollow casing formed of two cup-like members, a circular plate disposed between the two members of the casing, means for permanently connecting the casing members and plate together, an inner clutch member attached to and projecting from each side of the plate within the casing, each of said members having a plurality of sides disposed at equal angles to each other, an outer clutch member of substantially cup-like form located in each end of the casing and having rotatable mounting on the adjacent casing member, a shaft attached to each outer clutch member, said shafts extending in opposite directions away from each other, a pair of rings within each outer clutch member and around each inner clutch member, rods connecting all of the rings together, said rods passing through openings in the plate larger than the cross section of the rods, and rollers disposed between each inner and outer clutch member, one roller being located at each side of the inner clutch member and formed at its ends with projections of reduced size which are received in openings of larger size in said rings, substantially as described.

1,390,642. LIFTING-JACK. MALCOLM D. RIKER, Dover, N. J., assignor to McKiernan-Terry Drill Company, New York, N. Y., a Corporation of New Jersey. Filed Oct. 23, 1919. Serial No. 332,709. 12 Claims. (Cl. 254—103.)



1. A lifting jack comprising a base having a substantially circular seat, a tubular post having a substantially cylindrical lower end with indented sides engaged in said seat and welded to said base with welding metal flowed into the spaces between the flattened sides of the post and the surrounding walls of the circular seat, a nut block supported in the upper end of the post, a sleeve slidably engaged over the post and a screw engaged with the nut block and connected with the sleeve aforesaid.

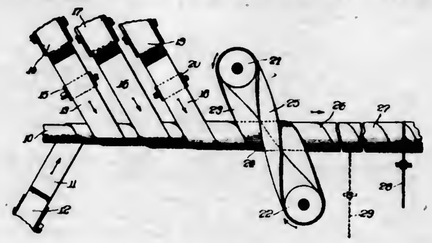
1,390,643. PILE-PULLING RIG. MALCOLM D. RIKER, Dover, N. J., assignor to McKiernan-Terry Drill Company, New York, N. Y., a Corporation of New Jersey. Filed July 10, 1920. Serial No. 395,334. 10 Claims. (Cl. 254—30.)



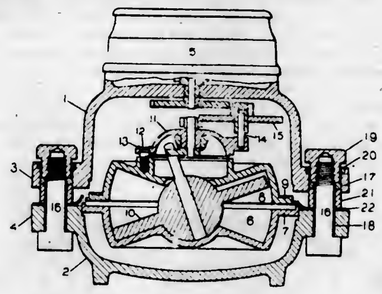
1. In a pile pulling rig the combination of a power hammer, a cable sling connected therewith and means for fastening said sling to a pile, whereby the action of said hammer is transmitted to said pile.

1,390,644. PROCESS OF MANUFACTURING CONTAINERS. THOMAS W. RITCHIE, Glencoe, Ill., assignor to W. C. Ritchie & Company, Chicago, Ill., a Corporation of Illinois. Filed Mar. 24, 1921. Serial No. 455,334. 12 Claims. (Cl. 93—55.)

1. The method of making a container comprising shaping a strip of material into tubular form, shaping a second strip of material into tubular form over said first strip, thereby providing a multi-layer tube, cutting around said tube between its ends through said outer layer only, applying a bottom to one end of said tube, and applying a top to the other end of said tube.

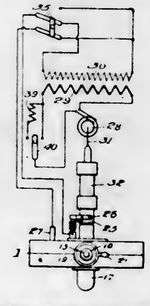


1,390,645. WATER-METER. EDWARD A. RITTER, Amherst, N. Y., assignor to George B. Bassett, Buffalo, N. Y. Filed Mar. 26, 1920. Serial No. 369,077. 13 Claims. (Cl. 285—3.)



11. A water meter comprising a separable part of the meter casing having a hole through it with a recess formed around the outside edge of said hole, a supporting bushing in said hole and a shearing washer in said recess, a clamping bolt passing through both said bushing and said washer, and a shearing collar located on said bolt; substantially as and for the purpose described.

1,390,646. ELECTRIC GAS-GENERATOR. RUDOLF ROSNER, Chicago, Ill. Filed Jan. 28, 1921. Serial No. 440,611. 17 Claims. (Cl. 204—32.)



1. In a gas generating machine comprising a chamber of incombustible dielectric material with an inlet, an outlet, a fixed electrode in the chamber adjacent the inlet, a movable electrode mounted to travel past said fixed electrode with a gap between them, means for feeding air through the inlet and a source of high potential electric current connected to said electrodes; means for control-

ling admission of said air through the inlet comprising an inwardly opening valve with a spring tending to hold it seated and an adjustable mounting for said spring adapted to vary its strength.

1,390,647. SUSPENDED ARSENATE OF LEAD AND METHOD OF MAKING SAME. CHARLES H. SAKRYD and HUBERT M. ROSENCRANS, Cleveland, Ohio, assignors to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 25, 1921. Serial No. 464,372. 4 Claims. (Cl. 23—13.)

1. In a method of increasing the suspension properties of arsenate of lead, the steps which consist in adding to acid arsenate of lead when being manufactured and before filtering, a small amount of the residual digester liquor from paper-making processes and, then filter-pressing the resulting mixture.

1,390,648. SUSPENDED ARSENATE OF LEAD AND METHOD OF MAKING SAME. CHARLES H. SAKRYD and HUBERT M. ROSENCRANS, Cleveland, Ohio, assignors to The Grasselli Chemical Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 25, 1921. Serial No. 464,373. 4 Claims. (Cl. 23—13.)

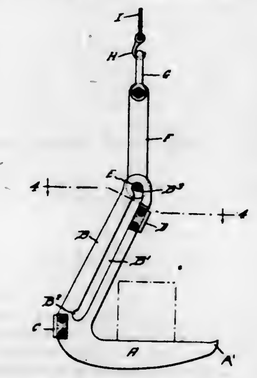
1. In a method of increasing the suspension properties of arsenate of lead, the steps which consist in adding to acid arsenate of lead when being manufactured and before filtering, a small amount of desugared molasses and then filter-pressing the resulting mixture.

1,390,649. LEAF-SPRING. WILLIAM EDWARD SLATER, Buffalo, N. Y., assignor to Buffalo Automobile Spring Company, Inc., Buffalo, N. Y. Filed Apr. 15, 1920. Serial No. 374,020. 6 Claims. (Cl. 267—47.)



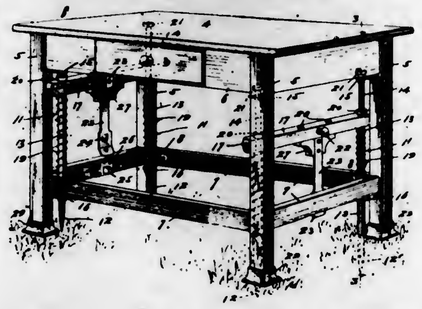
2. A spring including a plurality of spring leaves, each of said leaves being formed of a continuous strip of material and a plurality of connections, each connection securing together a pair of adjacent spring leaves and arranged near one end of the pair of leaves, each pair of adjacent spring leaves being secured together by only one connection.

1,390,650. SELF-DUMPING BAR-CARRIER. FRANK H. SMITH, Canton, Ohio. Filed Sept. 18, 1920. Serial No. 411,249. 11 Claims. (Cl. 294—82.)



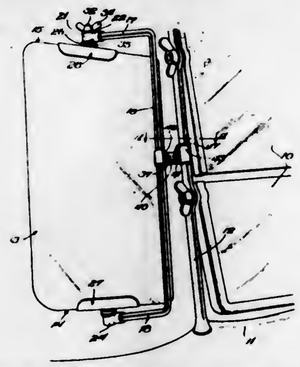
1. A frame comprising horizontal members and inclined upright members, said upright members being longitudinally slotted, the lower sides of said slots being transversely offset, a shaft movable in said slotted members, and centrally directed lifting means connected to said shaft.

1,390,651. LAWN OR GARDEN TABLE. CHRISTOPHER L. SOLBERG, Minneapolis, Minn. Filed Mar. 7, 1921. Serial No. 450,221. 8 Claims. (Cl. 45—31.)



1. The combination with a table, of a pair of anchor rods, guides on the table for the anchor rods, a cross-head connecting the anchor rods, springs under strain to lift the anchor rods, and a latch for holding the anchor rods depressed against the tension of the springs.

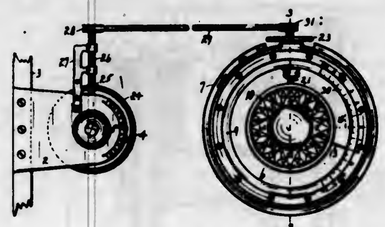
1,390,652. WINDSHIELD. ALFRED M. SOUTHARD, Chicago, Ill., assignor to Taylor-Southard Company, a Corporation of Wisconsin. Filed Oct. 10, 1919. Serial No. 329,740. 3 Claims. (Cl. 296—84.)



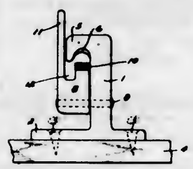
1. A wind shield embodying a supporting structure, said structure embodying a rigid upright, laterally projecting spring arms arranged at the opposite ends of the upright, a socket bearing carried by one of the arms, a bearing carried by the other arm, a wind shield, a clip removably engaging one end of the shield, a portion of the clip being shaped to form a trunnion journaled in said socket, a clip removably engaging the opposite end of the shield, a stem carried by the last said clip, said stem passing through the second recited bearing, the end of said stem being threaded, and a nut engaging the said threads and cooperating with the bearing to frictionally bind the shield against movement with respect to the said support.

1,390,653. STEERING DEVICE FOR AIRCRAFT. LAWRENCE B. SPERRY, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 24, 1915. Serial No. 16,721. 6 Claims. (Cl. 33—46.)

1. A course indicator for air craft comprising a base, downwardly directed sight means adjustably mounted on said base and adapted to be turned in a predetermined relation to the true course of the air craft, a compass including a movable reference member, and connections between said means and said member to move the latter.



1,390,654. ANTISLIP ROPE AND CABLE CLAMP. HENRY A. STORK, St. Louis, Mo. Filed Mar. 30, 1921. Serial No. 456,942. 1 Claim. (Cl. 24—134.)



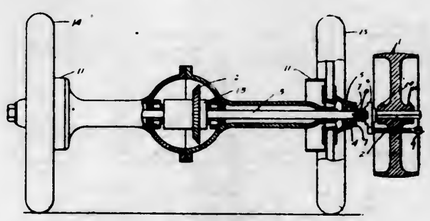
An improved rope and cable clamp, comprising a standard having an overhanging hook-shaped clamping-jaw at its outer end, and provided with perforated attaching flanges at its inner end; said hook-shaped clamping-jaw having a curved clamping-surface upon the inner face of its hook; a locking-cam having teeth that are overhung by the said hook of said overhanging clamping-jaw, and provided with a vertical slot that extends below the plane of said teeth, and located at one side of the latter directly beneath the free end of said overhanging hook, to enable the free end of said hook to enter said slot when a small rope or cable is being clamped; a handle on said locking-cam, forming one side of said slot, and extending upwardly past said hook; and a suitable pivot that fastens said locking-cam to the inner side of said standard.

1,390,655. PHONOGRAPH. GOTTFRIED STUPAR, Chicago, Ill. Filed June 26, 1920. Serial No. 391,940. 3 Claims. (Cl. 181—27.)
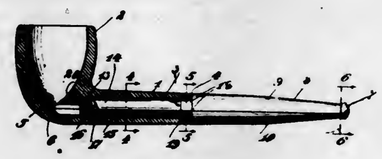


1. A phonograph sound directing device comprising an elongated block having a sound directing passage extending longitudinally thereof from one end to a point near the opposite end and a transverse opening therethrough intersecting the longitudinal passage adjacent one end thereof, the transverse opening on one side of the intersection coöperating in the directing of sound and on the other side providing a journal for a valve, and a rotatable valve for directing the sound from the passage to the transverse opening and operable to modify the sound passing therethrough.

1,390,656. REAR-AXLE PULLEY-DRIVE FOR AUTOMOBILE VEHICLES. LEWIS D. STURM, Portland, Oreg. Filed Mar. 8, 1920. Serial No. 364,279. 3 Claims. (Cl. 180—53.)



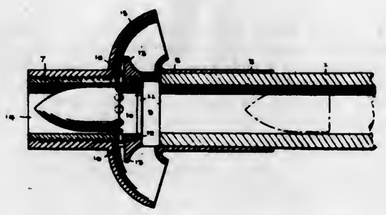
1. In an automotive vehicle, the combination of an extended rear axle, a pulley at the end of the axle, a clutch member slidably mounted on the axle between pulley and rear wheel, and a propelling screw in an arm of the pulley, said propelling screw being operable from the outside of the pulley to press said clutch member against the hub of the rear wheel.

1,390,657. SMOKER'S PIPE. CHRISTEA N. SUBTIRELU, New York, N. Y. Filed July 22, 1919. Serial No. 312,589. 3 Claims. (Cl. 131—12.)



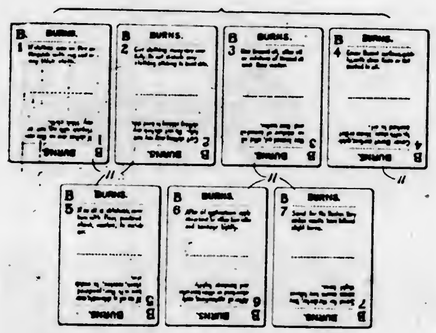
2. In a smoker's pipe the combination with a bowl having a substantially central bottom opening, of a stem having a bore reaching said opening, metallic members forming a lining of the bore adjacent the opening, and a mouthpiece extending into the bore and comprising slidable interlocked members to which said metallic members are fast.

1,390,658. RECOIL NEUTRALIZER AND MUFFLER. RICHARD M. TOWSON, Stafford, Va. Filed June 1, 1917. Serial No. 172,285. 11 Claims. (Cl. 89—42.)



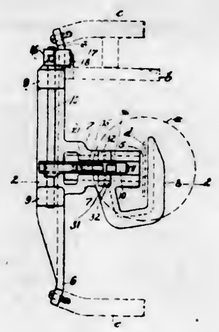
10. A recoil neutralizer for attachment to a gun muzzle comprising a casing having lateral outlets, a support removably positioned within said casing, means removably mounted on said support to deflect the escaping gases through said lateral casing outlets, and means for controlling the direction of travel of said escaping gases from said casing lateral outlets.

1,390,659. CARD GAME. DAVID L. VAUGHAN, Riverton, N. J. Filed June 20, 1919. Serial No. 305,575. 7 Claims. (Cl. 46—25.)



1. In a card game a plurality of sets of cards, each set having partly on each of its cards words giving instruction on a method of procedure to accomplish a definite purpose, said instruction being complete only when the cards of the set afe assembled.

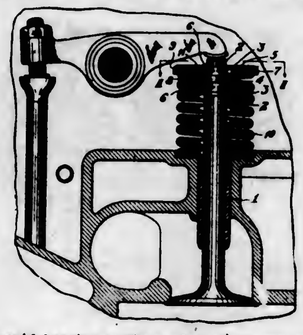
1,390,660. PRINTING ATTACHMENT FOR KNITTING-MACHINES. GEORGE S. WEINERTH, Reading, Pa. Filed Nov. 23, 1920. Serial No. 425,955. 4 Claims. (Cl. 101—318.)



2. A fabric-printing mechanism for circular knitting machines, comprising an attaching frame having operating-lever supports and a slide-way bracket with an extension forming a fabric-way, a reciprocative bed member in said slide-way, a pivoted inking device, means carried by the bed member operating to positively swing the inking device to operative and inoperative positions incident to the retracting and advancing movements, respectively of the bed member and lever mechanism for operating said reciprocative platen member.

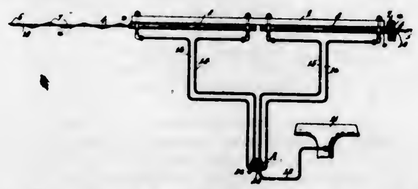
1,390,661. SPRING-RETAINER FOR PUPPET-VALVES. WALTER G. WILLARD, Gates Mills, Ohio. Filed Aug. 27, 1920. Serial No. 406,375. 5 Claims. (Cl. 251—134.)

4. In a spring retainer for puppet valves, the combination with a cup member of sheet metal pressed to form an interior concave surface and an exterior seat for the end of a coil-spring: of a two part locking member formed from sheet-metal pressed to form two interior beads and an intermediate exterior curved bearing surface; said beads adopted to engage grooves in a valve



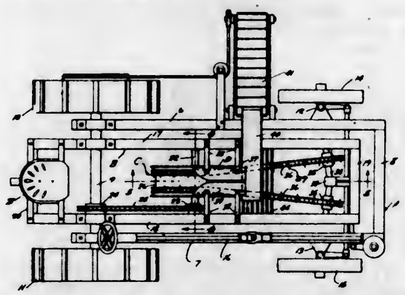
stem and said bearing surface adapted to engage said interior concave surface.

1,390,662. OPERATING MECHANISM FOR SIGNALS AND OTHER DEVICES. ALFRED C. WITTIG, Rochester, N. Y. Filed Aug. 15, 1919. Serial No. 317,721. 3 Claims. (Cl. 123—198.)



3. In combination with a gas engine, a cylinder a device to be operated connected with said piston, a piston operating in the cylinder, a piping connecting with the intake of the gas engine, and a valve for connecting said piping with the cylinder, said valve being movable to a position to admit air to the piping leading to the intake manifold for the purpose of supplying auxiliary air to the gas engine.

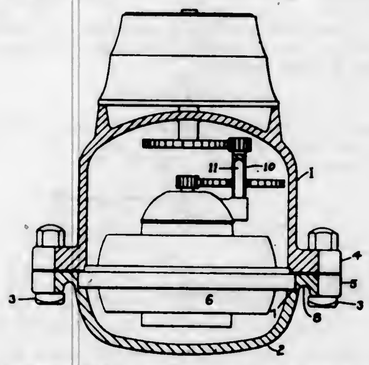
1,390,663. BEET-HARVESTER. JOSEPH E. WYCKOFF, Los Angeles, Calif. Filed May 29, 1920. Serial No. 385,107. 8 Claims. (Cl. 55—108.)



1. In a harvester, a grasper comprising a sheave arranged to ride on the ground, a pair of endless grasper chains passed over said sheave and disposed in the groove thereof, means over which said chains are passed to separate them, whereby the chains approach each other toward one bight and recede from the other toward the other bight, and inwardly directed tines on said chains for penetrating the plants to be harvested as the sheave passes over them.

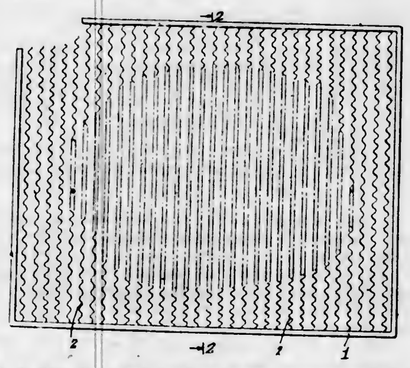
2. In a harvester, a grasper comprising a sheave having radially extending spikes in the groove thereof arranged to ride on the ground, a pair of endless grasper chains passed over said sheave and disposed in the groove thereof, means over which said chains are passed to separate them, whereby the chains approach each other toward one bight and recede from each other toward the other bight, and inwardly directed tines on said chain for penetrating the plants to be harvested as the sheave passes over them.

1,390,664. WATER-METER. ROBERT BASSETT, Buffalo, N. Y. Filed Oct. 22, 1919. Serial No. 332,403. 8 Claims. (Cl. 73—98.)



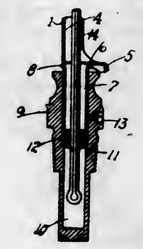
1. A water meter casing comprising a casing member provided with a securing flange having at the base thereof an internal groove and an external groove which coact to form an annular reduced portion readily breakable parallel to the contact surface of the flange and meter measuring mechanism directly supported by that part of the member surrounded by said portion; substantially as and for the purpose described.

1,390,665. TRAY FOR CARRYING CAKES, &c. FREDERICK BEERS, New Rochelle, and HOWARD L. POWELL, New York, N. Y., assignors to National Biscuit Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 27, 1920. Serial No. 406,447. 2 Claims. (Cl. 34—17.)



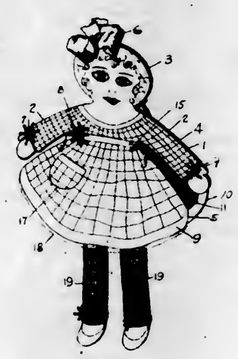
2. A tray for small food products, comprising a marginal frame, opposite members of which have a plurality of horizontal openings therethrough, curved wires extending across said frame, with their ends extending through said openings, and rods mounted on the outer sides of said members, to which the ends of said wires are secured.

1,390,666. THERMOMETER. CHARLES D. BOLIN, St. Louis, Mo., assignor to American Thermometer Company, St. Louis, Mo., a Corporation of Missouri. Filed Sept. 10, 1920. Serial No. 409,314. 4 Claims. (Cl. 73—52.)



4. A thermometer comprising a pipe-fitting having a cylindrical bore provided with an annular shoulder and closed at one end, a thimble seated in said bore and being separated from said shoulder by a gasket, a scale plate having a depressed surface coated with a vitreous material, and a forwardly extending flange on its lower end, said flange being provided with an opening to receive one end of the thimble, and a mercury tube secured to the scale plate, said mercury tube extending into the pipe-fitting and traversing the gasket therein.

1,390,667. CANDY-PACKAGE. BLANCHE BONESTELL, New York, N. Y., assignor to Huyler's, New York, N. Y., a Corporation of New York. Filed Nov. 26, 1920. Serial No. 426,852. 9 Claims. (Cl. 46—40.)

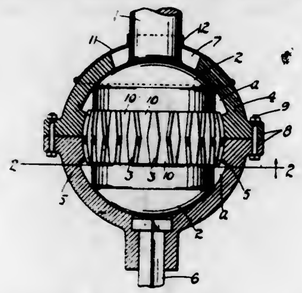


1. A candy package, comprising front and back boards cut and decorated to represent a doll, a candy container arranged between said boards approximately at the waist of the doll, and means for holding said front and back boards together at the upper part and supporting the said container.

1,390,668. UNIVERSAL JOINT. EDWARD A. BURNES, St. Louis, Mo. Filed Aug. 21, 1920. Serial No. 405,015. 2 Claims. (Cl. 64—91.)

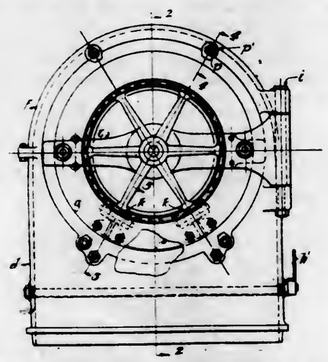
2. A universal joint comprising a hollow spherical socket member having an equatorial zone of inwardly projecting teeth and a ball member flattened transversely of

the joint axis to provide a cylinder of less diameter than the member, having its spherical surfaces journaled in said



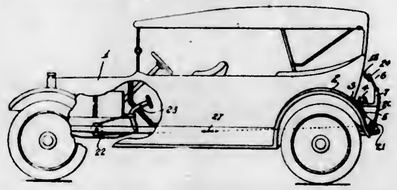
socket member and having a zone of external teeth on its cylindrical surface.

1,390,669. COMBINED CLEANING-DOOR AND CHIMNEY-VALVE. WILBUR T. CLARK, Cleveland, Ohio, assignor, by mesne assignments, to The Hanna Furnace Company, a Corporation of Delaware. Filed Feb. 24, 1919. Serial No. 278,766. 10 Claims. (Cl. 277—67.)



5. The combination with the gas outlet of a stove or the like, of an inclosing casing affording a connection to the chimney stack, a valve member adapted to close said outlet, means for actuating said valve member, and an additional valve member controlling the outlet to the chimney stack, substantially as set forth.

1,390,670. DIRECTION-SIGNAL. ISIAH CONRAD, Columbus, Ohio. Filed Dec. 23, 1920. Serial No. 432,676. 5 Claims. (Cl. 116—45.)

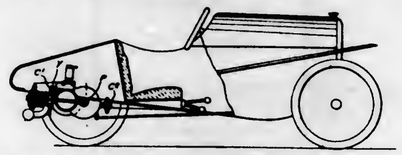


1. A direction signal for motor vehicles, comprising a frame adapted to be mounted rigidly in connection with a motor vehicle, an indicator pivotally mounted in connection with said frame upon horizontal pivots, a weight coöperative with a localized portion of said indicator and normally tending to maintain the latter in a given position, a longitudinally extending flexible cable having its rear terminals secured to said indicator and its forward terminal disposed for connection with an operating pedal of said vehicle, said pedal serving, when normally positioned, to draw said cable longitudinally whereby said indicator will be oscillated to assume a given position and upon the actuation of said pedal to release said cable and to thereby permit of the oscillation of said indicator, under the influence of said weight, to a second operating position.

1,390,671. EXPLOSIVE COMPOSITION. WILLARD C. COPE, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed June 13, 1918. Serial No. 239,774. 9 Claims. (Cl. 52—10.)

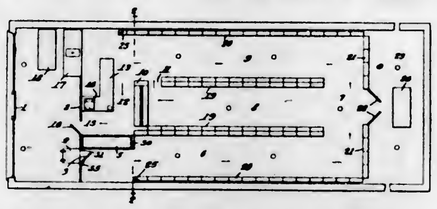
1. A detonating composition containing an organic filling material and an aromatic acid adapted to inhibit the growth of living organisms.

1,390,672. AUTOMOBILE VEHICLE. JOHN VALENTINE CARDEN, Ascot, England. Filed Apr. 4, 1921. Serial No. 458,470. 4 Claims. (Cl. 180—56.)



4. An automobile vehicle wherein the engine, gear box and driving axle constitute a unitary structure pivotally mounted about a transverse axis upon the vehicle frame and the engine cylinders form the outermost element of the pivoted structure and are arranged horizontally side by side in a transverse row with the cylinder heads outward, the crank shaft being connected by parallel gears with the driving axle which constitutes the innermost element of the pivoted structure, said driven axle and cylinders being on opposite sides of the pivotal axis of said structure.

1,390,673. FIXTURE FOR SELF-SERVING STORES. THOMAS DAVID CRAWFORD, Hammond, Ind. Filed Oct. 6, 1920. Serial No. 414,962. 2 Claims. (Cl. 211—8.)



1. In store fixtures of the class described, the combination of duplicate shelving cases, said cases having a series of like spaced openings in alined portions of the rear part of their top walls, and links insertible in adjacent openings, the openings being spaced a like distance apart, and the cases being securable back to back, the desired relation, at will.

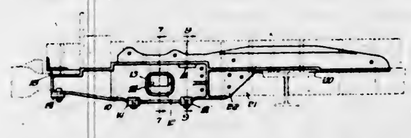
2. In a unit type of fixtures for self-serving store, series of detachable shelving cases arranged to form aisles for the passage of customers, said cases being of unitary size, fastening means for securing the ends of alined cases together, independent removable fastening means for securing intermediate rows of shelving cases firmly together back to back, separate doors for the entrance and exit of customers, and all of said doors being a multiple of the size of the cases.

1,390,674. LOCKING DEVICE FOR AUTOMOBILE-WHEELS. ARTHUR M. CUMMINGS, Aberdeen, Md. Filed Aug. 23, 1919. Serial No. 319,492. 3 Claims. (Cl. 70—90.)



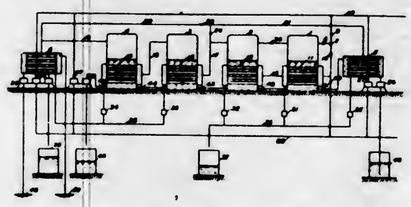
1. A locking device for wheels having pneumatic tires, comprising a pair of pivotally connected members adapted to embrace the wheel rim and tire, said device being provided with a road engaging element and having a socket adapted to completely inclose the inflation valve tube.

1,390,675. DRAFT MECHANISM. ROBERT F. DARBY, Yonkers, N. Y., assignor to American Steel Foundries, Chicago, Ill., a Corporation of New Jersey. Filed June 19, 1919. Serial No. 305,225. 4 Claims. (Cl. 213—42.)



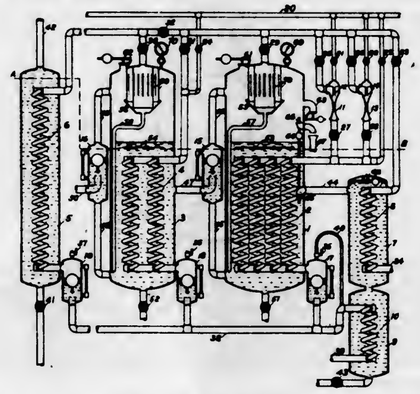
1. In draft mechanism for railway cars, draft arms having a center stop formed thereon to coöperate with tandem springs when such are used, said draft arms also having reinforcing beads defining spaces within which openings may be formed in said draft arms for operatively receiving a different form of draft rigging, the beads being adapted to compensate for whatever material may be sacrificed in forming said openings.

1,390,676. APPARATUS FOR EVAPORATING LIQUIDS. WILLIAM L. DE BAUFRE, Annapolis, Md. Filed Jan. 26, 1917. Serial No. 144,650. 5 Claims. (Cl. 127—9.)



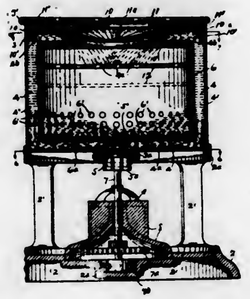
5. In an apparatus for evaporating a liquid, an evaporating chamber containing the said liquid separately by a heating surface from a condensing chamber, means for withdrawing and compressing vapor from the said evaporating chamber and of introducing the compressed vapor into the said condensing chamber, a second evaporating chamber separated by a heating surface from a second condensing chamber, means for discharging the said liquid from the first evaporating chamber into the second evaporating chamber, means for discharging vapor from the first condensing chamber into the the second condensing chamber, and means for discharging vapor from the second evaporating chamber independent of the first evaporating chamber.

1,390,677. EVAPORATING APPARATUS. WILLIAM L. DE BAUFRE, Annapolis, Md. Filed Mar. 13, 1917. Serial No. 154,584. 3 Claims. (Cl. 127—3.)



1. A plurality of vapor compressors in combination with a multiple effect evaporating plant, each effect of said plant containing a condensing chamber and an evaporating chamber, the said vapor compressors being connected in parallel to withdraw vapor from the evaporating chamber of the first effect and to discharge the said vapor compressed and commingled with the primary operating vapor into the condensing chamber of the said first effect, passages being provided for discharging vapor from the evaporating chamber of each effect into the condensing chamber of the succeeding effect and from the evaporating chamber of the last effect, and valves being provided to reduce the number of vapor compressors in operation.

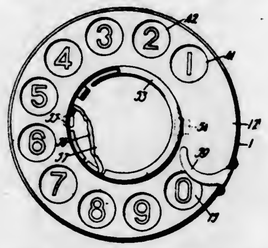
1,390,678. WASHING AND DRYING MACHINE. JEREMIAH L. DE LANEY, Syracuse, N. Y., assignor to Vortex Washer Corporation, Syracuse, N. Y., a Corporation of New York. Filed May 16, 1921. Serial No. 469,877. 9 Claims. (Cl. 68—18.)



9. A centrifugal clothes washing machine including a cylindrical vat, a smaller cylindrical cage disposed con-

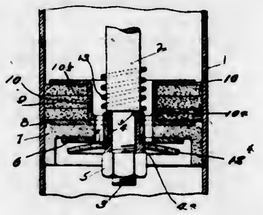
centrically in said vat, a shaft for supporting and rotating said cage for expelling the washing fluid from the cage and for causing said fluid to rise and race toward the top of the cage, a plurality of baffles disposed radially around the top end of the cage adapted to divide the said fluid into a number of portions and to cause said portions to converge and fall in a shower at the center of the cage, and means for compressing the clothes for increasing the centrifugal action of the machine.

1,390,679. IMPULSE-TRANSMITTER. HENRY F. DOBBIN and EDGAR W. GENT, New York, N. Y., assignors to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1919. Serial No. 339,640. 2 Claims. (Cl. 179—90.)



1. In an impulse transmitting device, a stationary base member, a supporting plate attached to said base member, a number plate supported by said supporting plate, a retaining ring arranged to engage said number plate, and resilient fingers on said ring arranged to engage said supporting plate to detachably secure the number plate to said supporting plate.

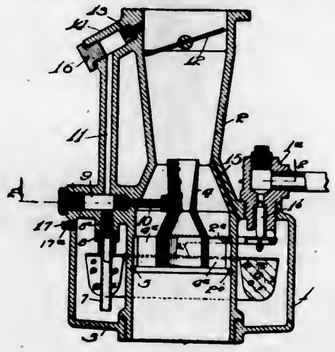
1,390,680. LUBRICATING DEVICE FOR PUMP-PISTONS. JOHN W. DREW, St. Louis, Mo., assignor to Moon Brothers Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 28, 1921. Serial No. 448,564. 2 Claims. (Cl. 103—63.)



1. In a piston, the combination of a piston rod, a leather cup-shaped washer fixed thereon, metallic washers arranged above and below said leather cup-shaped washer, uninterrupted air holes through said members, a leather valve member arranged to control one end of said air holes, a fibrous lubricating washer juxtaposed against one of said metallic washers and provided with a central opening of larger diameter than said registering air holes, and a cup-shaped metallic washer fixed to said piston rod for holding said fibrous washer in fixed position, said cup-shaped washer being also provided with registering air holes.

1,390,681. CARBURETER. WILLIAM A. EDWARDS, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Nov. 23, 1918. Serial No. 263,799. 2 Claims. (Cl. 261—41.)

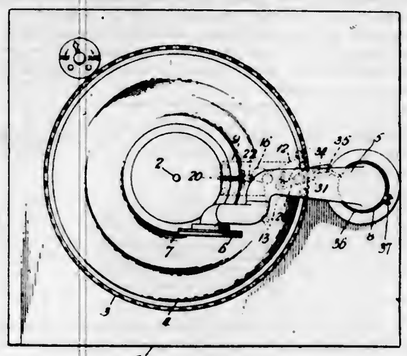
1. In a carbureter, in combination with a liquid fuel chamber and liquid level governing means therefor, a main air supply passage open at one end for air inlet, and adapted for connection at the other end with the engine intake, said passage being constructed for causing reduction of pressure to result at a predetermined point therein from the air currents therethrough; a fuel inlet mouth-piece situated in the main air supply passage having its discharge end located proximate to the point of reduced pressure and open at the opposite end for air inlet, a liquid fuel discharge duct extending horizontally for discharging into the air current entering through said fuel inlet mouth-piece; and at a considerable distance above the governed liquid level of the fuel supply chamber, a chamber substantially at the level of said fuel discharge, from which chamber said discharge duct leads to its discharge end; a duct leading upward from the fuel supply chamber located at the fuel discharge level and delivering at its upper end in said last mentioned chamber, and a duct leading from the top of said chamber to a point in the intake passage beyond the seating point of the throttle valve therein.



2. In a carbureter, in combination with a liquid fuel chamber, a main air supply passage open at one end for air inlet, and adapted for connection at the other end with the engine intake, said passage being constructed for causing reduction of pressure to result at a predetermined point therein from air current therethrough, a fuel inlet mouth-piece situated in the main air supply passage, having its discharge end located proximate to the point of reduced pressure in the main air intake, and open at the opposite end for air inlet; a liquid fuel discharge duct extending substantially horizontally for discharge into the air current entering through said fuel inlet mouth-piece; a throttle valve located in the main air supply passage beyond the point of low pressure therein, a liquid fuel supply by-pass passage leading from the liquid supply chamber for discharge into the intake passage beyond the seating point of the throttle valve therein, said by-pass passage leading past the level of the horizontally-extending liquid fuel discharge duct and being connected therewith, said by-pass passage being relatively reduced in diameter below the point of its connection with the liquid fuel discharge passage and at its discharge into the intake passage beyond the throttle valve, whereby a supply of liquid fuel drawn into said by-pass passage by the suction when the throttle valve is closed, is retarded in its return to the fuel supply chamber, and is held available at and above the level of said horizontally-extending liquid fuel discharge passage when suction is operative through said passage.

1,390,682. AUTOMATIC STOPPING AND STARTING DEVICE FOR PHONOGRAPHS. JOHN A. EITUTIS, Chicago, Ill. Filed Dec. 26, 1919. Serial No. 347,291. 10 Claims. (Cl. 192—116.)

1. In a phonograph, the combination of a turn-table, a tone arm mounted to swing over said turn-table and provided with a reproducer, and mechanism for automatically starting and stopping said turn-table, comprising two stop members movable alternately into engagement with the turn-table for stopping the same, and means actuated upon the swinging of the tone arm and reproducer into



predetermined positions to cause said stop members to be moved alternately into engagement with said turn-table, and to move and hold said stop members out of engagement with the turn-table during the movement of the tone arm between those positions.

1,390,683. PROCESS OF MAKING CATALYZERS. CARLETON ELLIS, Montclair, N. J. Filed Dec. 12, 1916 Serial No. 136,472. 4 Claims. (Cl. 23—28.)

2. The process of making a catalyzer which may be used for the hydrogenation of fatty bodies containing unsaturated components which comprises subjecting a decomposable organic compound of a catalytic metal in an inert suspensory medium comprising a hydrocarbon body, to the action of heat in the presence of a reducing gas whereby an active catalytic body is obtained.

1,390,684. PROCESS OF REGENERATING CATALYTIC MATERIAL. CARLETON ELLIS, Montclair, N. J. Original application filed Nov. 24, 1916. Serial No. 133,252. Divided and this application filed May 1, 1917. Serial No. 165,763. 2 Claims. (Cl. 23—28.)

1. The process of regenerating catalytic nickel material which comprises freeing the catalytic material to a large extent from fatty or oily material, dissolving the residue in nitric acid, precipitating the nickel from the nickel solution as a basic compound, in reacting upon the basic material in the freshly precipitated condition with formic acid, whereby a nickel formate is obtained and in subsequently decomposing such salt by heating to a temperature at or above the decomposition point.

1,390,685. PROCESS OF MAKING CATALYZERS. CARLETON ELLIS, Montclair, N. J. Filed Apr. 11, 1918. Serial No. 227,889. 4 Claims. (Cl. 23—28.)

1. The process of making catalytic material adapted for use in the hardening of fatty oils which comprises dry heating an organic salt of nickel to a temperature at least ten degrees above the initial temperature of reduction.

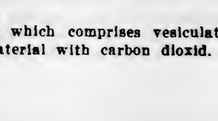
1,390,686. NICKEL FORMO-CARBONATE AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J. Filed Apr. 28, 1919. Serial No. 293,179. 11 Claims. (Cl. 23—28.)

1. The process of making nickel formo-carbonate which comprises reacting on freshly precipitated nickel carbonate with an amount of formic acid insufficient to completely convert the carbonate to the formate and in converting the product into a dry powder.

1,390,687. PROCESS OF ADDING HYDROGEN TO UNSATURATED FATTY MATERIAL. CARLETON ELLIS, Montclair, N. J. Filed Mar. 16, 1916. Serial No. 84,608. 3 Claims. (Cl. 87—12.)

1. In the hydrogenation of oily materials, the step of converting the entire amount of said material to be treated, in the present of a colloidal catalyst, into a fine mist, by water gas.

1,390,688. REMOVING CATALYZER FROM OIL. CARLETON ELLIS, Montclair, N. J. Filed Dec. 30, 1915. Serial No. 69,389. 3 Claims. (Cl. 87—12.)

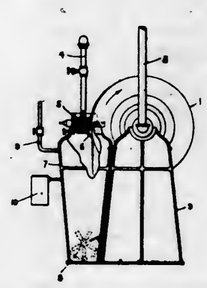


1. A process of separating magnetizable finely divided magnetic catalyzer from hydrogenated oil which comprises passing the oil while in the form of a flowing current, past a stationary magnet, located in proximity to said current, while said oil contains free hydrogen, and thereafter filtering said oil while containing free hydrogen, and while at a temperature above atmospheric.

1,390,689. FOOD PRODUCT CONTAINING HYDROGENATED OIL. CARLETON ELLIS, Montclair, N. J. Original application filed Dec. 23, 1913, Serial No. 808,461. Divided and this application filed Oct. 2, 1916. Serial No. 123,416. 9 Claims. (Cl. 99—13.)

8. A hydrogenated oil mixture, comprising an intimate mixture of super-hydrogenteed oil and under-hydrogenated oil, aerated sufficiently to produce a whitish opaque material, said product being free from linolenic compounds and from nickel-organic compounds, and substantially without action on tinned containers.

1,390,690. EDIBLE FAT AND PROCESS OF MAKING SAME. CARLETON ELLIS, Montclair, N. J. Filed Apr. 16, 1917. Serial No. 162,347. 5 Claims. (Cl. 99—13.)



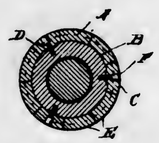
4. A process which comprises vesiculating semi-solid edible fatty material with carbon dioxid.

1,390,691. POLISHING OR FINISHING COMPOSITION. CARLETON ELLIS, Montclair, N. J. Filed Oct. 9, 1917. Serial No. 195,553. 8 Claims. (Cl. 134—24.)

4. A polishing mixture comprising a plurality of hard brittle hydrogenated oils.

1,390,692. [WITHDRAWN.]

1,390,693. SUGAR-CANE MILL. MANUEL GARCIA FERNANDEZ, Buenos Aires, Argentina. Filed Mar. 27, 1919. Serial No. 285,529. 1 Claim. (Cl. 100—47.)



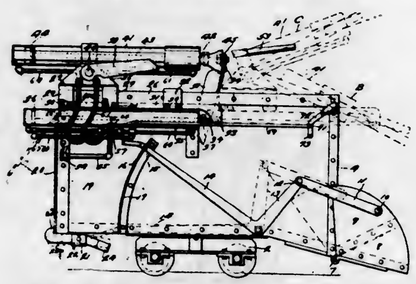
A crushing roll comprising a central cylindrical portion having longitudinal grooves formed in its periphery, a plurality of juxtaposed circumferential plates approximately wedge shaped in cross section and having longitudinal ribs engaging said grooves, and bolts passing through the plates and ribs into said central portion for securing the plates to the latter.

1,390,694. TWYER. WILLIAM E. FRAWLEY, Jr., Birmingham, Ala. Filed June 14, 1920. Serial No. 388,826. 3 Claims. (Cl. 263—41.)



2. A twyer for converters comprising a refractory body tapering from its intake to its outlet end, a refractory jacket tapered to fit snugly about the refractory body of the twyer, and means to connect the jacket and twyer body, substantially as described.

1,390,695. MINE-CAR-LOADING SHOVEL. CHARLES HOWARD FUNKEY, Ramsay, Mich. Filed Feb. 18, 1920. Serial No. 359,744. 9 Claims. (Cl. 214—65.)



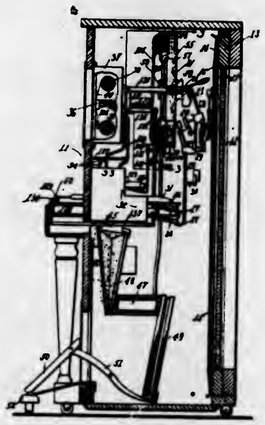
1. The combination with a mine car, of longitudinal disposed guides carried by said car, a longitudinally movable cross head mounted on said guides, a cylinder transversely pivoted in said cross head, said cylinder being transversely movable in parallel relation to the cross head and provided with a reciprocating piston having a piston rod connected thereto, the forward end of said piston rod being provided with a shovel, air cylinders carried by the car, a piston and piston rod disposed in said air cylinders, said piston rod being connected to a cross head, means whereby pressure may be applied to said cylinders for simultaneously moving the cross head and the shovel and means whereby the transversely pivoted cylinder may be controlled in a tilting action during a shoveling operation.

1,390,696. DRY CELL. SAMUEL E. GERTLER, Brooklyn, N. Y. Filed Nov. 20, 1919. Serial No. 339,490. 7 Claims. (Cl. 204—29.)



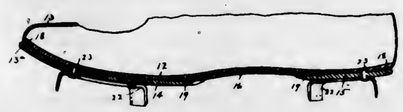
3. A dry cell comprising spaced electrodes one of which is zinc, and an electrolyte of calcium chlorid.

1,390,697. PIANO-PLAYER. ALFRED R. GILLHAM, Cincinnati, Ohio. Filed Dec. 28, 1916. Serial No. 139,344. 14 Claims. (Cl. 84—33.)



1. In a device of the character described, the combination with a set of piano-action units, of automatic means for selectively emphasizing the respective notes produced by the action of said units, and means for regulating the intensity of sound of all of said notes while maintaining the relative prominence of the selectively emphasized notes.

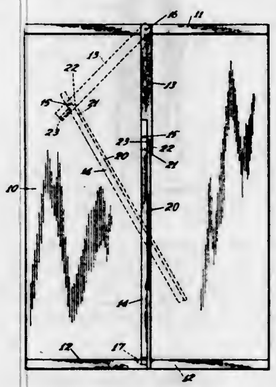
1,390,698. SPORTING-SHOE. DANIEL J. GOLDEN, Brockton, Mass. Filed Sept. 24, 1920. Serial No. 412,493. 2 Claims. (Cl. 36—25.)



1. A sporting shoe comprising a superstructure including an inner sole having a fore portion, a heel portion, and a shank portion, and an upper lasted upon the inner sole; a pieced bottom composed of relatively

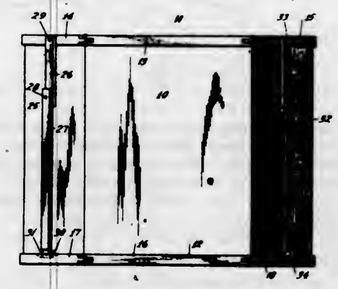
stiff spaced apart tap and heel pieces, and a flexible intermediate shank piece formed to fill the space between the tap and heel pieces; fastenings uniting the ends of the shank piece to the contiguous ends of the tap and heel pieces; fastenings uniting the tap and heel pieces to the upper and inner sole at the fore and heel portions of the superstructure; and fastenings uniting the shank piece to the inwardly turned edges of the upper at the shank portion of the superstructure, between the tap and heel pieces, the last-mentioned fastenings being free from engagement with the shank portion of the inner sole, so that the shank portion of the shoe possesses a maximum degree of flexibility.

1,390,699. DISPLAY DEVICE. SYDNEY B. GRIFFIN, Mamaroneck, N. Y., assignor to T. Fred Moore, New York, N. Y. Filed Nov. 22, 1920. Serial No. 425,638. 8 Claims. (Cl. 40—125.)



1. In a folding support for posters and the like, the combination with an extensible thrust piece adapted to hold the poster flat when extended, of a prop pivotally secured to the thrust piece and arranged to lock the members of the thrust piece to each other, in extended position, when the prop is inclined to the thrust piece to serve as a support for the poster.

1,390,700. DISPLAY DEVICE. SYDNEY B. GRIFFIN, Mamaroneck, N. Y. Filed Nov. 24, 1920. Serial No. 426,119. 10 Claims. (Cl. 40—125.)



7. In a display device, the combination with a flexible poster, of a piece secured along the back of the poster and comprising members hinged together and each having its front side cut away at the end adjacent to the hinge to provide a space for the bulge of said poster when said members are bent forwardly on their hinge.

1,390,701. HOSE-CLAMP. CLARENCE S. HAINES, Indianapolis, Ind. Filed Jan. 27, 1921. Serial No. 440,426. 4 Claims. (Cl. 24—19.)



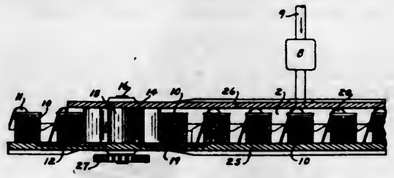
3. A one piece hose clamp comprising an elongated body portion, a tongue struck from the body portion adjacent one end thereof and bent laterally to extend across the hose when the clamp is applied to use and having one of its ends integral with the body, the side edges of said tongue having a plurality of coöperating notches, said body portion having an elongated slot adjacent the opposite end thereof the outer end of which is restricted and adapted to interlock with the notches of the tongue, and gripping members formed at the ends of the body portion.

1,390,702. ELECTRIC RAZOR. JOSEPH A. HAMMOND, Deming, N. Mex., assignor to Hammond-Howard Manufacturing Company, (no stockholders liability,) Deming, N. Mex., a Corporation of New Mexico. Filed May 6, 1920. Serial No. 379,301. 15 Claims. (Cl. 30—12.)



2. A razor, comprising a blade of the straight concave type, with a shank and means providing a pivotal mounting; and means for oscillating the shank on its mounting to impart a swinging cutting stroke to the blade.

1,390,703. METHOD OF TREATING SUBSTANCES. OSWALD H. HANSEN, Port Washington, Wis., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Filed Jan. 7, 1919. Serial No. 270,004. 4 Claims. (Cl. 99—8.)

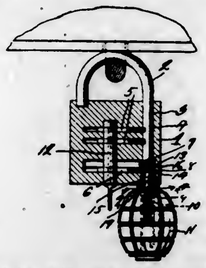


4. The process of sterilizing food, which comprises, simultaneously agitating and transporting the food in open containers through segregated successive zones of gradually increasing temperature, and subsequently transporting said open containers through segregated successive zones of gradually decreasing temperature.

1,390,704. EXPLOSIVE LOCK. CHARLES A. HARBAUGH, Linwood, Kans. Filed May 25, 1920. Serial No. 384,175. 1 Claim. (Cl. 116—11.)

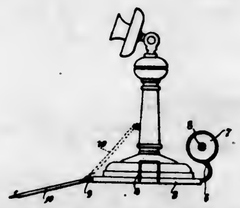
The combination with a lock having a lock bolt disposed therein, of an explosive device therefor, said explosive device comprising a casing having a spring actuated firing pin therein, said firing pin extending through the lock casing and having its end axially disposed in a recess in the end of the lock bolt, a recess carried by said firing pin and registering with an aperture in the end of the lock

bolt, said recess and aperture being in alinement with a detent carried by the lock and held, said firing pin being held against the action of its spring by the detent



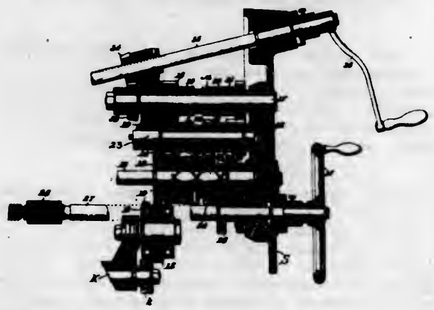
and released by said detent, and means whereby spring actuated firing pin may be held against movement under the influence of its spring independent of the detent.

1,390,705. MEMORANDUM OR WRITING APPLIANCE FOR USE IN CONNECTION WITH TELEPHONES. JOHN MCDONALD HATTERSLEY, Birmingham, England. Filed Feb. 7, 1920. Serial No. 357,085. 11 Claims. (Cl. 281—12.)



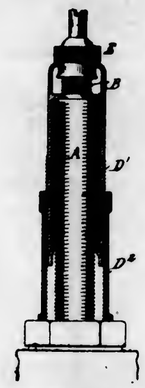
1. Memorandum appliance for table telephones, comprising a base, means on said base for detachably securing it beneath the base of a table telephone, a channel formed by upper and lower parts of said base and by distance pieces between them, a flat support for paper carried by said base and located adjacent one end of said channel, a paper supply device located on the other side of the telephone to the said support and adjacent the other end of the channel, whereby the paper from the supply device can pass through said channel to the flat support.

1,390,706. MACHINE-TOOL TRIP. ROBERT T. HAZELTON, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 27, 1918. Serial No. 251,599. 13 Claims. (Cl. 90—21.)



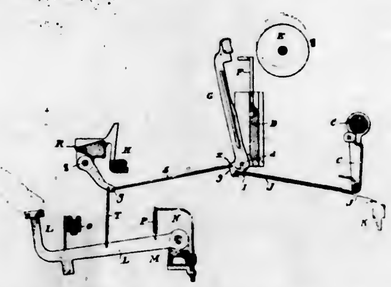
1. A machine tool combining propelling mechanism; a rate-changing clutch therefor; and means for operating said clutch, said means being constructed to act positively when moving said clutch into the position yielding a slow rate and impositively when moving said clutch into the position yielding a high rate of movement.

1,390,707. DUST-CAP FOR TIRE-VALVES. ROBERT H. HENEMIER, New York, N. Y., assignor to A. Schrader's Son, Inc., Brooklyn, N. Y., a Corporation of New York. Filed Dec. 18, 1918. Serial No. 267,360. 3 Claims. (Cl. 152—12.)



1. A dust cap comprising a dust cap portion and a valve cap portion, the dust cap portion being adapted to slide down over the valve casing and having a passage formed therein for the valve, and the valve cap portion being adapted to screw on the valve to hold the dust cap portion in place.

1,390,708. TYPEWRITING-MACHINE. EDWARD BERNARD HESS, Manhattan Beach, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y. Filed July 1, 1921. Serial No. 481,771. 17 Claims. (Cl. 197—30.)



2. A noise reducing type action for typewriting machines, comprising toggle link connections between a type bar and a key lever movable to such an extent by the full depression of the key as to move the type bar to a toggle-locking position in front of the platen and at such a distance therefrom as to reduce noise during a further movement of the type bar about is pivot to the platen, caused by the momentum of the type bar.

1,390,709. ART OF PRESERVING LIQUID FOODS. HERMAN HEUSER, Evanston, Ill. Filed Sept. 22, 1919. Serial No. 325,527. 4 Claims. (Cl. 99—1.)

3. The process of preserving liquid food compounds which consists in adding thereto about 0.002% of SO_2 in the form of sulfite and sodium benzoate.

4. As a chemical preservative, a mixture containing 7 to 12 parts of sodium sulfite to 100 parts of sodium benzoate.

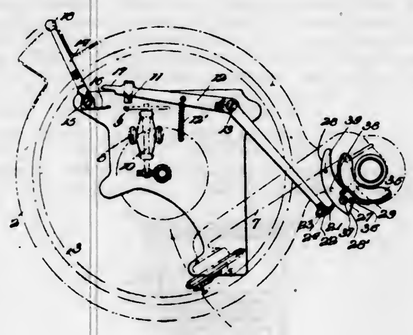
1,390,710. PROCESS OF PREPARING LOW-ALCOHOLIC BEVERAGES. HERMAN HEUSER, Evanston, Ill. Filed June 16, 1920. Serial No. 389,388. 4 Claims. (Cl. 195—1.)

1. The process of preparing low alcoholic beverages having the characteristics of natural alcoholic fermentated beverages which consists in producing a limited yeast fermentation in dealcoholized beer while maintaining carbon dioxid in the liquid from a period prior to the beginning of said fermentation.

1,390,711. ART OF MANUFACTURING CEREAL BEVERAGES. RAYMOND S. HEUSER, Evanston, Ill. Filed Aug. 2, 1920. Serial No. 400,574. 3 Claims. (Cl. 99—11.)

1. The process of improving the physical and beverage characteristics of fermented beverages which consists in adding glycerin thereto.

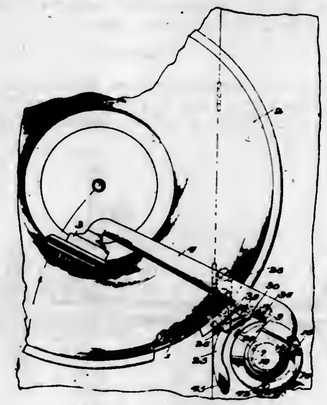
1,390,712. STOP MECHANISM FOR TALKING-MACHINES. FRANK C. HINCKLEY, Bridgeport, Conn., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Apr. 26, 1917. Serial No. 164,725. 28 Claims. (Cl. 192—116.)



1. The combination with a rotary record-support and a tone-arm, of a member moved by said tone-arm and provided with a shoulder, stop-mechanism and controlling means for said stop-mechanism comprising a one-way collapsible member coöperating with the said first-named member and effecting the actuation of said stop-mechanism upon passing said shoulder.

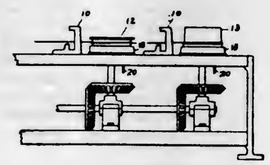
1,390,713. STOP MECHANISM FOR TALKING-MACHINES. FRANK C. HINCKLEY, Bridgeport, Conn., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn., a Corporation of Delaware. Filed Feb. 23, 1918. Serial No. 218,710. 19 Claims. (Cl. 192—116.)

1. The combination of a rotary record-support, a movable sound-conveying element, a brake lever adapted to engage said record support, a pivoted latch carried thereby, and a member moved by said sound-conveying element



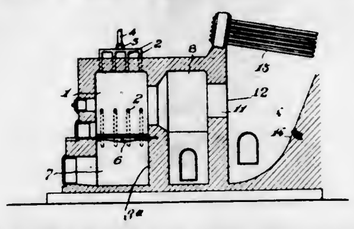
and engaged by said latch to retain said brake lever out of braking position.

1,390,714. WIRE-DRAWING MACHINE. HAROLD WILLIAM HODGSON, Worcester, Mass. Filed June 19, 1920. Serial No. 390,149. 5 Claims. (Cl. 205—20.)



1. In a wire drawing machine, the combination with rotary means for receiving wire from a die and drawing it therethrough, of means constituting part thereof for holding water in a position to be directed against the interior surfaces of said rotary means by centrifugal force as the rotary means rotates.

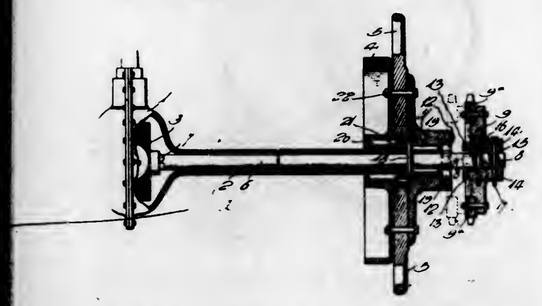
1,390,715. FURNACE FOR BURNING LIQUID FUELS AND PULVERULOUS COAL. HIROSUKE HORIUCHI, Taihoku-Cho, Japan. Filed May 21, 1920. Serial No. 383,132. 1 Claim. (Cl. 110—28.)



In a furnace, a combustion chamber approximately circular in cross section, a plurality of combined air and fuel pipes communicating with the combustion chamber and arranged to produce rotary movement of the incoming fuel and air within the chamber, an expansion chamber of substantially elliptical form in cross section communicating with the combustion chamber by a restricted pas-

sage and being of greater area in cross section than the combustion chamber, said expansion chamber having an outlet, and a plurality of spaced parallel baffles arranged to arrest the rotary movement of the products of combustion issuing from the expansion chamber.

1,390,716. POWER-TRANSMITTING MECHANISM FOR MOTOR-VEHICLES. ROY E. JOYCE, Bartlesville, Okla. Filed Mar. 15, 1920. Serial No. 365,845. 4 Claims. (Cl. 180—53.)



1. In a motor vehicle, a driving axle, a casing for the driving axle, a ground engaging wheel rotatable upon the axle casing and axle and held against movement longitudinally thereon, said wheel having a hub element extending outwardly and provided with clutch teeth, a power transmitting element slidable longitudinally upon the axle and held against rotation thereon and provided with clutch teeth for engaging the clutch teeth of the wheel, the axle having transversely extending openings in its outer end portion and the power transmitting element having openings for registering with the openings of the axle, and means for passing through alined openings of the axle and power transmitting element to releasably secure the power transmitting element in an adjusted position.

1,390,717. THRUST BALL-BEARING. HENRY B. KEIPER, Lancaster, Pa.; Lucy R. Keiper, Nancy Keiper Long, and George Hammond, executors of said Henry B. Keiper, deceased, assignors to National Bearings Company, Lancaster, Pa., a Corporation of Delaware. Filed July 3, 1920. Serial No. 393,775. 7 Claims. (Cl. 64—49.)



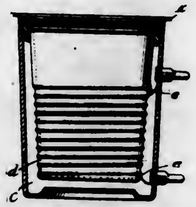
7. A ball thrust bearing comprising two annular plates of different sizes, each having laterally projecting inner and outer marginal flanges turned toward the other plate, and a series of openings between its flanges, the flanges of one plate being arranged within the flanges of the other, a series of balls arranged between the two plates and protruding in opposite directions through said openings, the outer flange of the inner plate terminating short of the inner wall of the outer plate, and an annular plate having spaced flaring inwardly extending projections and having its peripheral portion clamped between the shorter flange of said inner plate and the inner wall of said outer plate; said annular plate being adapted to hold the series of balls in separated relation between said projections and to effect a circulation of oil along the spaces on opposite sides thereof and around the series of balls.

1,390,718. INTEGRAL ENVELOP AND BAG. WILLIAM E. LOVER, Findlay, Ohio. Filed Aug. 21, 1919. Serial No. 319,005. 10 Claims. (Cl. 150—1.)



1. In an article of the class described, a combined envelop and bag comprising a limp wall having a fullness and constituting the back of the bag, a relatively stiff wall constituting the front of the envelop, and a relatively stiff wall common to the envelop and bag and constituting the back of the envelop and front of the bag said walls being integrally connected.

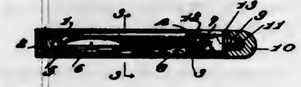
1,390,719. THERMO-ELECTRICAL APPARATUS FOR BOILING AND HEATING PURPOSES. JOAQUIN GRANDE LOZANO, Madrid, Spain. Filed Jan. 8, 1920. Serial No. 350,231. 2 Claims. (Cl. 219—44.)



1. An electrically heated utensil comprising inner and outer containers, said containers being spaced apart to form an air space, the inner surface of said outer container and the outer surface of said inner container being grooved adjacent the upper ends thereof, a sealing compound retained in position in said grooves, said inner container being composed of non-conductive material, an electrical heating element wound upon said inner container and having its terminals connected to said outer container.

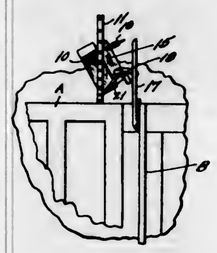
1,390,720. COMBINED ANTISEPTIC CASE AND SURGICAL KNIFE. HENRY K. POWERS, New Kensington, Pa. Filed Sept. 4, 1920. Serial No. 408,290. 2 Claims. (Cl. 128—305.)

1. A combined antiseptic case and surgical knife, comprising a case containing antiseptic liquid and having a closed end, the other end of the case having an internally screw-threaded opening, a blade having at its butt end a head, the head having inwardly and outwardly extending externally screw-threaded projections, washers



around the screw-threaded projections at opposite ends of the head, and a short cap adapted to receive the outer screw-threaded projection, the parts combined and operating as and for the purpose described.

1,390,721. ELEVATOR-CONTROLLING DEVICE. CHARLES F. QUICK, Dallas, Tex. Filed Sept. 15, 1920. Serial No. 410,496. 12 Claims. (Cl. 187—31.)



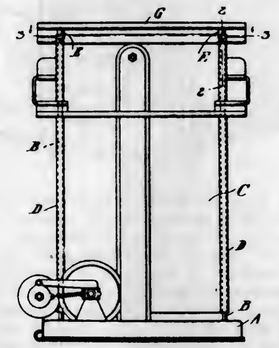
1. In apparatus of the character described, a circuit closing member adapted to be pivotally mounted upon an elevator car and having its axis of turning movement inclined whereby the member will automatically continue its turning movement in the same direction when being swung past dead center, and means including an element adapted to be mounted upon a landing door to effect the starting turning movement of said member.

1,390,722. POOL-CUE-TIP HOLDER. ARTHUR F. REINHEIMER, Detroit, Mich. Filed Jan. 6, 1921. Serial No. 435,449. 3 Claims. (Cl. 46—9.)



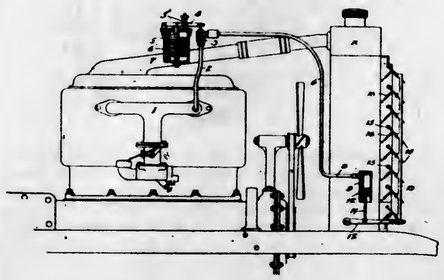
cue and a tip therefor, of a holder for the tip including cup and a tip therefor, of a holder for the tip including a screw extending outwardly from the cue and non-rotatably secured thereto, a housing rotatably mounted upon the outer end of said cue and receiving said screw, a traveling non-rotatable nut mounted upon said screw, a sleeve secured to said nut and frictionally engaging the inner surface of the housing, jaws carried by the sleeve and arranged to normally assume a position out of engagement wich each other, inwardly extending arcuate working faces formed on the outer ends of the jaws, the jaws being adapted to be brought into engagement with each other when the sleeve is brought into the housing, the cut tip having arcuate inwardly extending grooves arranged to receive the working faces, whereby when the jaws are brought toward each other accidental displacement of the tip is eliminated.

1,390,723. COPY-HOLDER. EDWARD W. ROTHFUS, Rochester, N. Y., assignor to Error-No, Inc., Rochester, N. Y., a Corporation of New York. Filed July 12, 1920. Serial No. 395,683. 5 Claims. (Cl. 120—29.)



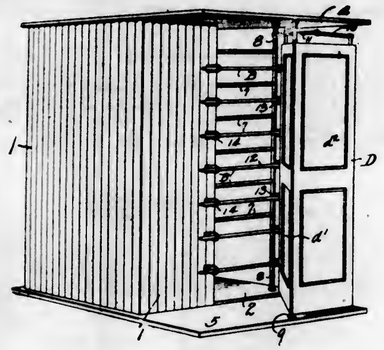
5. In a copyholder the combination with a stationary frame and a vertically movable support, of shock absorbing means acting to cushion the fall of the movable support upon the stationary frame, said shock absorbing means comprising a resilient body and a spiral spring positioned with reference to the resilient body so that the spring and body are successively compressed.

1,390,724. COOLING APPARATUS FOR MOTOR-VEHICLES. GEORGE J. RUMENS, Baltimore, Md. Filed Apr. 5, 1917. Serial No. 159,975. 1 Claim. (Cl. 123—174.)



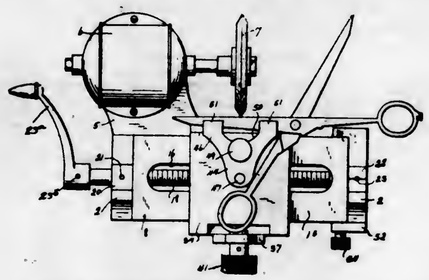
A temperature controlling apparatus for motor vehicles comprising in combination with a motor and its radiator, a shutter for controlling the flow of air to the radiator, a lever loosely connected to the shutter and extending rearwardly therefrom, a cylinder arranged in the rear of the shutter and above the lever, a piston having pivotal connection with the lever and operating within the cylinder, means forming communication between the intake flue of the motor and the cylinder, a valve arranged within said connecting means and a thermostat connected with the valve subject to the heat of the cooling water in the motor for actuating the valve and controlling the pressure between the intake flue and the cylinder.

1,390,725. AUTOMATICALLY-LOCKED METERING DOOR AND GATE DEVICE. JAMES ARTHUR RUTH, Marion, N. C. Filed Apr. 26, 1919. Serial No. 293,036. 6 Claims. (Cl. 268—1.)



1. In an apparatus of the class described the combination with a booth or compartment adapted to be occupied by one person and having a passage-way, of a gate hinged at one side of the passage-way and extending across the interior of the booth, a door pivotally supported in front of the passage-way adapted to be engaged by an entering individual, connections between the door and gate to shift the gate to open position upon the closing of the door, the occupant preventing the return of the gate.

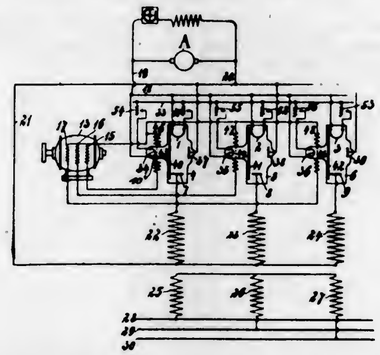
1,390,726. SHEARS-GRINDER. ALBERT T. SCHEIWER and DAVID FERGUSON, Erie, Pa. Filed Oct. 18, 1919. Serial No. 331,613. 9 Claims. (Cl. 51—77.)



1. In a grinding machine as set forth, the combination with a pivoted frame, of a supporting base frame therefor having a grinding member mounted thereon, a dominant carriage guided longitudinally upon the pivoted frame in a direction at right angles to the grinding edge of the member, a screw mounted in bearings of the pivoted frame and having operative connections with said dominant carriage, an auxiliary carriage guided upon the dominant carriage and movable in a direction at right angles to that of the dominant carriage and toward the grinding edge of the member, and means on the auxiliary carriage for clamping a shear blade with its cutting edge in position at right angles to the grinding edge of the member.

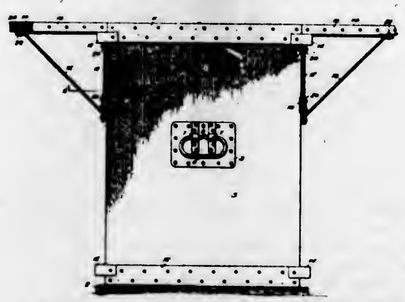
2. In a grinding machine as set forth, the combination with a pivoted frame, of a supporting base frame therefor having a grinding member mounted thereon, a dominant carriage guided longitudinally upon the pivoted frame in a direction at right angles to the grinding edge of the member, a screw mounted in bearings of the pivoted frame and having operative connections with said dominant carriage, an auxiliary carriage guided upon the dominant carriage and movable in a direction at right angles to that of the dominant carriage and toward the grinding edge of the member, means on the auxiliary carriage for clamping a shear blade with its cutting edge in position at right angles to the grinding edge of the member, and means for causing a vibrating movement of the pivoted frame as the screw is rotated.

1,390,727. SYSTEM OF TRANSFORMING DIRECT CURRENT INTO ALTERNATING CURRENT. MORITZ SCHENKEL, Charlottenburg, near Berlin, Germany, assignor to Siemens Schuckertwerke, G. m. b. H., Berlin, Germany, a Corporation of Germany. Filed Mar. 29, 1917, Serial No. 158,468. Renewed Feb. 9, 1921. Serial No. 443,726. 8 Claims. (Cl. 175—363.)



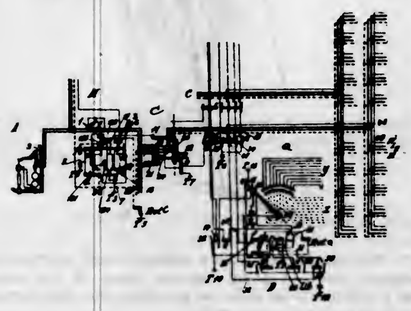
1. A system of transformation of direct current into alternating current, comprising a source of direct current, at least one vacuum apparatus, a primary and secondary transformer winding, a cathode within said vacuum apparatus connected to said source of direct current, an anode within said vacuum apparatus connected to the primary transformer winding, a connection from said source to the free end of said winding, a pair of auxiliary electrodes within said vacuum apparatus arranged to emit cathode rays into space separating said main cathode and anode, means for supplying said auxiliary cathode with current, and means for intermittently barring and bridging to said cathode rays the passage into the space separating the main electrodes.

1,390,728. COMBINED SHIPPING-CRATE AND TABLE. RUDOLPH I. SCHONITZER, Detroit, Mich., assignor of one-third to J. K. Williams, Springfield, Ohio. Filed Oct. 19, 1918. Serial No. 258,846. 8 Claims. (Cl. 190—12.)



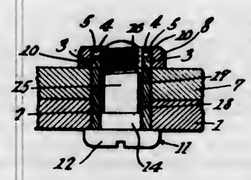
1. A shipping crate of rectangular form having a fixed top and provided with sills extending across the bottom of the crate and projecting therebeyond, one of the sides of the crate being separate from the top and edgewise detachable and normally resting at its bottom edge upon the projecting parts of the sills, and clips carried by other sides of the crate and embracing the detachable side to retain the same in place.

1,390,729. AUTOMATIC TELEPHONE SYSTEM. GIUSEPPE SIMONETTA and AUGUSTO ROSA, Milan, Italy. Filed Mar. 4, 1918. Serial No. 220,399. 6 Claims. (Cl. 179—18.)



1. In an automatic telephone system, line-searchers adapted to connect the caller's line to a calling line, automatically, upon the lifting of the receiver hook of the caller's line, registrators associated with the selected trunk and rendered operative by the lifting of said hook, selectors corresponding to the first figure chosen by the trunk line of the registrator, which selectors are actuated by the calling line when the first figure is formed, whereby the calling line is connected to a second free trunk line having a second selector or connector and the first registrator is rendered inoperative and a secondary registrator is inserted, the secondary registrator being thereafter operable to actuate the second selector similarly to the actuation of the first selector by the first registrator or to select in the connector a point corresponding to the called line and to connect the first trunk line that is served by the caller's secondary registrator with the called line, the secondary registrator being set free upon the making of said connection, and a group of magnets for each trunk leading to the connector, said magnets being operable to maintain the connection of the calling line with the called line and to break the connection if the called line is occupied.

1,390,730. SHEARS. HENRY A. W. SMITH, Chatham, Va. Filed Oct. 15, 1920. Serial No. 417,086. 2 Claims. (Cl. 30—13.)



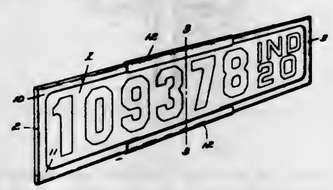
2. A pair of shears comprising a first blade; a tubular bushing mounted on the blade and having fingers at its end; a second blade mounted to swing on the bushing; a nut coöperating with the second blade, the nut having a bolt-receiving opening and being provided with seats communicating with the opening, the fingers being received in the seats with a tight driving fit, and being beveled at their ends thereby to avoid an inward bending of the fingers when the seats do not register exactly with the fingers during the mounting of the nut on the fingers; a bolt comprising a head coöperating with the first blade, the bolt being movable transversely in the bushing, to engage the nut, before the bolt is inserted completely into the bushing; and means for holding the bolt tightly in the bushing, when the bolt is advanced completely into the bushing.

1,390,731. DRILL-HOLDER. JOSEPH SPANELL, Hazleton, Pa. Filed Dec. 18, 1920. Serial No. 431,595. 2 Claims. (Cl. 77—60.)



1. In an appliance of the character described, a chuck, a head stock engaging the chuck the latter being slidably movable on the said stock and means for holding a drill in the head stock, the said means including clamping blocks movable in the head stock and a handle having a screw feed connection with the head stock and connected with the clamping block therein.

1,390,732. AUTO-LICENSE HOLDER. PAUL J. SPEICHER, Gaston, Ind. Filed Oct. 25, 1920. Serial No. 419,270. 2 Claims. (Cl. 40—10.)

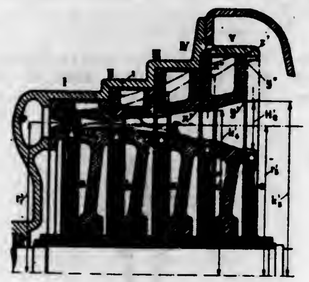


1. In a plate holder of the class described, adjustable, sectional protective end members entirely embracing the ends and a portion of the top and bottom of a plate, an adjustably mounted sectional supporting clamp having opposed, transverse grooves therein for said protective members and said plate, a vertical screw threaded bolt connecting said clamp sections and a locking bolt engaging the lower vertical wall of the clamp for positively locking said clamp sections.

1,390,733. CONSTRUCTION OF TURBINES. PAUL SPIESS, Zurich, Switzerland. Filed Jan. 2, 1920. Serial No. 349,035. 7 Claims. (Cl. 253—69.)

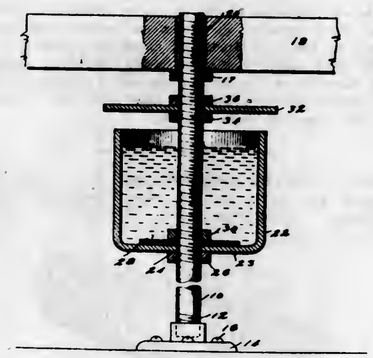
1. A series of steam- or gas- turbines of the multistage-, axial flow-, disk-, free-jet type, in which the largest turbine of the series has an output that is 2.5 to 5 times as large as that of the smallest turbine, comprising a standard casing of exactly the same dimensions for all the turbines

of the series, a plurality of guide wheels the passages of which have in the corresponding stages of all the turbines



of the series approximately the same inside diameter but different outside diameters according to the volumes of steam to be dealt with, and a plurality of runners.

1,390,734. INSECT-PROTECTOR. LEO WATSON STEVENS, Everett, Wash. Filed Oct. 18, 1920. Serial No. 417,550. 2 Claims. (Cl. 43—109.)



1. A device of the class described comprising a standard, a receptacle having a bottom provided with an opening slidably receiving the standard, a nut threaded on said standard and supporting said receptacle, means for providing a liquid-tight connection between said receptacle and said standard, a second nut mounted on said standard, a protecting disk supported by said nut, and arranged in spaced relation to the adjacent end of said receptacle, means coacting with said second named nut to secure said disk in position, and a supporting element adjustably carried by said standard.

1,390,735. TANNING. JOHN K. TULLIS, New York, N. Y., assignor to Fulcra Tan Company, New York, N. Y., a Corporation of Delaware. Filed Sept. 24, 1918. Serial No. 255,477. 4 Claims. (Cl. 149—5.)

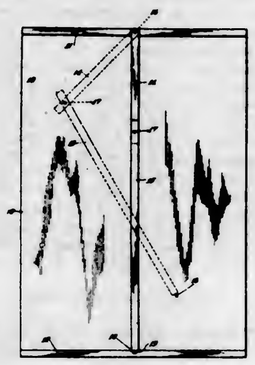
2. The process of tanning which comprises treating a hide with a solution of bichromate containing aluminum sulfate and magnesium sulfate, and then effecting reduction in the hide and tanning by treating wth a sulfite waste liquor material.

1,390,736. DISPLAY DEVICE, CHARLES W. WADSWORTH, Merrick, N. Y. Filed Aug. 14, 1920. Serial No. 403,528. 7 Claims. (Cl. 40—125.)



7. The combination with a flexible poster, of rigid edge members attached along opposite edges of the poster, and a folding thrust piece for spreading the edge members apart to hold the poster flat.

1,390,737. DISPLAY DEVICE. CHARLES W. WADSWORTH, Merrick, N. Y., assignor to T. Fred Moore, New York, N. Y. Filed Nov. 17, 1920. Serial No. 424,740. 5 Claims. (Cl. 40—125.)



1. The combination with a flexible poster, of edge members attached to opposite edges of the poster, and a foldable thrust piece, comprising a plurality of thrust members pivotally attached together, said thrust piece being permanently pivoted at one of its ends to one of the edge members and having its other end adapted to engage the other of said edge members so as to exert an outward thrust on said edge members when extended and to lie against the edge member to which it is pivoted when folded.

1,390,738. SOCKET-WRENCH. OWEN J. WILLIAMS, Orchard Park, N. Y. Filed Sept. 14, 1920. Serial No. 410,148. 3 Claims. (Cl. 81—118.)

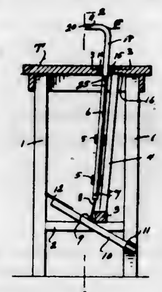
1. A socket wrench, comprising a casing including a threaded portion adjacent its inner end and having an annular series of recesses in its outer end, the walls of said recesses being beveled to form cam faces, a threaded rod screwed into the casing, said rod including an annular rduced portion forming a shoulder, an annular

series of jaws fulcrumed on the shoulder and coöperating to form a socket, beveled lugs on the jaws fitting the



recesses and engaging the cam faces, and a star spring carried by the rod engaging the inner faces of the jaws and tending to spread them apart.

1,390,739. POTATO-CUTTER. ROBERT F. WILSON, Montrose, Colo. Filed Mar. 9, 1921. Serial No. 451,003. 3 Claims. (Cl. 146—7.)



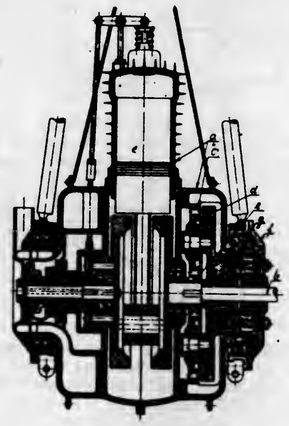
1. A cutter of the class described comprising a table, a cutting element coacting with said table and including a shank having one end portion freely disposed through the table, the opposite end portion terminating in an extension, a cross member carried by the extension, and spaced springs carried by the table below the top thereof and between which the shank of the cutting element is guided.

1,390,740. PROPELLENT BULK SMOKELESS POWDER. RICHARD G. WOODBRIDGE, Jr., Wilmington, Del. assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a Corporation of Delaware. Filed Dec. 11, 1919. Serial No. 344,244. 9 Claims. (Cl. 52—5.)

1. The process which comprises agitating a mixture of at least partially colloided bulk smokeless powder grains and graphite.

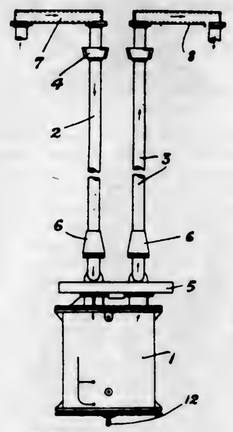
1,390,741. INTERNAL-COMBUSTION ENGINE. YRJÖ JOHANNES AALTONEN, Tampere, Finland. Filed May 29, 1919. Serial No. 300,690. 4 Claims. (Cl. 123—44.)

3. In an internal combustion motor, the combination of a non-rotating frame; a cylinder frame mounted to rotate on said non-rotating frame; a crank shaft mounted to rotate on said non-rotating frame independently of the cylinder frame; a gear on the crank shaft; planet gears meshing with said gear; a disk carrying said planet gears; an internal gear on the cylinder frame meshing with the planet gears; and a friction clutch connected to the non-rotating frame for rendering said disk non-rotating to cause the cylinder and crank shaft to rotate, the planet gears causing the direction of rotation of



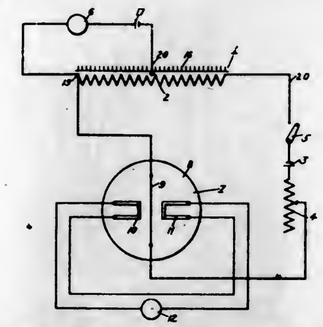
the cylinder frame to be the opposite of the direction of rotation of the crank shaft.

1,390,742. OIL-REFINING APPARATUS. HUGH LOGIE ALLAN, Ayr, Scotland. Filed Apr. 18, 1916. Serial No. 92,026. 1 Claim. (Cl. 196—5.)



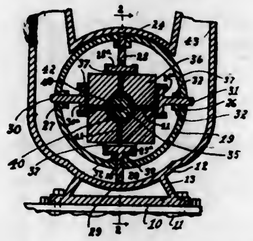
An oil refining apparatus, comprising in combination a plurality of vaporizing units, uptake pipes extending from said units, downcomer pipes opening into said units and connections for connecting the uptake pipes of one unit to the downtake pipes of the adjacent unit, means for heating said units, and means for cooling said downcomer pipes, which comprises cooling liquid distributers surrounding the upper ends of said pipes, an anti-splash device disposed at the end of said pipes, and a collecting tray for collecting the cooling liquid.

1,390,743. MEASURING DEVICE. CHESTER T. ALLCUTT, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Feb. 4, 1918. Serial No. 215,381. 8 Claims. (Cl. 175—183.)



1. A standard measuring device comprising a heater responsive to current, two dissimilar thermo couples subjected to the heater and a galvanometer connected in series with the thermo couples to determine when the couples develop equal thermal electromotive forces.

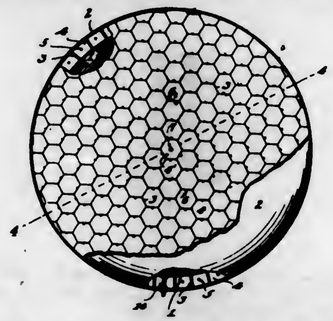
1,390,744. ROTARY PUMP. FRANK F. AMBROSE, Los Angeles, Calif., assignor to Union Steam Pump Company, Battle Creek, Mich., a Corporation. Filed Feb. 24, 1919. Serial No. 278,726. 4 Claims. (Cl. 103—44.)



1. In a rotary pump of the class described, a casing having an annular pumping chamber therein provided with inlet and outlet ports; a driven shaft eccentrically mounted in one of the heads of said chamber; a rotor in said chamber secured to said shaft, said rotor having slots therein; a plurality of pistons in said chamber, each piston comprising a pair of blades connected by a hollow hub and mounted to have the blades reciprocate in the slots of the rotor; a guide shaft mounted in the other head of said casing concentrically thereto; lugs secured to said blades with their opposed faces parallel; and a guide block revolubly mounted on said guide shaft in engagement with said lugs to guide said pistons and prevent the edges of the blades from contacting with the casing, said guide block contacting with said blades at the centers of said blades.

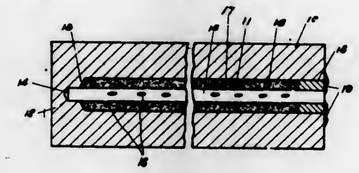
1,390,745. AIRCRAFT OF THE LIGHTER-THAN-AIR TYPE. LAVANDA M. ARMSTRONG, Peoria, Ill. Filed Nov. 24, 1919. Serial No. 340,328. 8 Claims. (Cl. 244—3.)

1. An air craft including in its construction an envelop made up of two spaced walls creating two separate compartments, a series of walls connecting the first named walls, arranged to form a series of cells throughout the space between the latter, one of said cells being a distributing cell, another of said cells being a relief cell at substantially the opposite side of the envelop from the distributing cell, and a valve in one of the walls of each of the cells lying between said distributing cell and said relief cell, adapted to open in the direction of and to communicate with said relief cell only, and to close in the



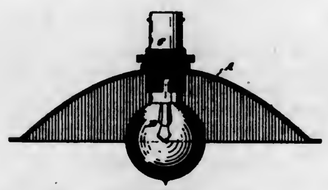
direction of the distributing cell for permitting passage of a gas from the latter through all of the cells into said relief cell.

1,390,746. PROCESS OF MAKING CORED TUBULAR BODIES. PERCY A. E. ARMSTRONG, Loudonville, N. Y. Filed Jan. 17, 1919. Serial No. 271,612. 10 Claims. (Cl. 80—62.)



10. The process of making tubular bodies such as hollow drill rod and the like which consists in introducing into a longitudinally apertured billet a core comprising a metallic member surrounded by a substantially thick layer of weld-preventing material, elongating and reducing the cross section of the billet and core as by rolling, and withdrawing such member.

1,390,747. REFLECTOR FOR USE IN LIGHT-PROJECTORS. JOHN GRAEME BALSILLIE, Melbourne, Victoria, Australia, assignor to Flatlite Limited, Sydney, New South Wales, Australia, a Corporation of New South Wales. Filed Nov. 16, 1920. Serial No. 424,530. 6 Claims. (Cl. 240—41.)

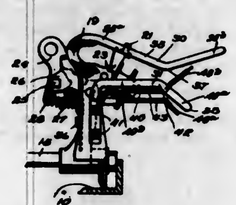


2. A reflector for use in light projectors having its reflecting surface provided with corrugations parallel with one meridian.

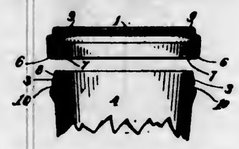
1,390,748. CHECK-HEAD FOR PLANTERS. PHILIP H. BAXTER, Corydon, Iowa, assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed July 18, 1917. Serial No. 181,384. Renewed Dec. 3, 1920. Serial No. 428,151. 17 Claims. (Cl. 111—47.)

8. In a planter, the combination with the check head frame, a seeder actuating device, and a fork for operating

said device movable from an approximately vertical working position to an approximately horizontal wire-discharging position, of a guide having a laterally disposed passageway, said guide comprising two elements both stationary relatively to the frame, one above and the other below the said passageway for the wire, the lower element having a downwardly turned outer extremity and the upper element having an upwardly turned outer extremity, and the two elements being arranged as described whereby said passageway has an outer part which widens vertically outward and an inner part which widens vertically inward, and said fork when in its discharging position having its entrance in the vertically narrowed part of said passageway.



1,390,749. RECEPTACLE-CLOSURE DEVICE. ADOLPHUS E. BAYREUTHER, New York, N. Y. Filed July 19, 1919. Serial No. 312,028. 3 Claims. (Cl. 215—38.)



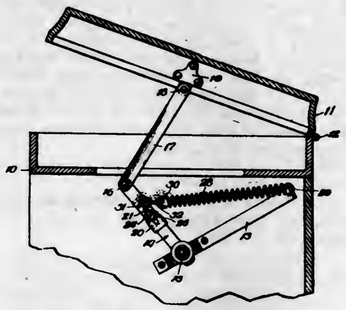
3. In a closure device for receptacles, a cup shaped member, a serrated edge formed thereon and a gasket ring held within the serrated edge.

1,390,750. WELL-DRILL SOCKET. EDGAR W. BELL, New Wilson, Okla. Filed June 12, 1920. Serial No. 388,437. 1 Claim. (Cl. 255—26.)



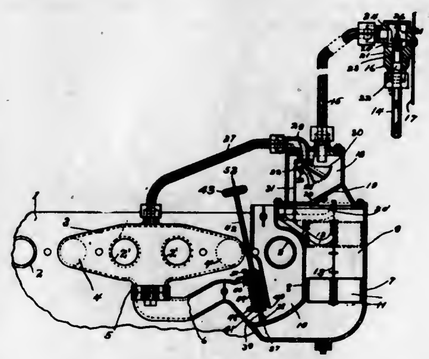
In a device of the class described, a barrel having means at one end for the attachment of a drill and formed with a bore opening through its other end and provided interiorly with a shoulder, the barrel being formed in its side with an opening communicating with its bore and located below the said shoulder, a cable coupling member insertible into the bore of the barrel through the said opening and having a shoulder to engage the shoulder of the bore, and means removably disposed within the opening and extending vertically longitudinally thereof to prevent loss of the said connecting member from the barrel through the opening, the said means comprising a rod having a threaded portion, and the said barrel at one end of the opening being provided with a threaded socket to receive the threaded portion of the rod.

1,390,751. LID-SUPPORTER. RAYMOND T. BELL, Chicago, Ill., assignor, by mesne assignments, to Jewett Phonograph Company, a Corporation of Michigan. Filed Jan. 3, 1921. Serial No. 434,499. 12 Claims. (Cl. 217—60.)



1. A lid supporter embodying a base adapted to be secured to a fixed support, an element pivotally connected with the base, a link pivotally connected by one end with said element and by its other end with the lid whereby when the lid is moved the elements will be moved about their pivots, a spring connected at one end to a fixed support, and an element adjustably carried by the first recited element and to which second recited element the other end of the said spring is connected.

1,390,752. CARBURETER. THOMAS BEMIS, Indianapolis, Ind. Filed July 23, 1917. Serial No. 182,259. 7 Claims. (Cl. 158—36.)



1. A carbureter having a float chamber therein, a float suspended in said chamber, a fuel supply chamber in communication with said float chamber, means for connecting said supply chamber with a supply of fuel, means to produce a suction in said supply chamber for drawing fuel therein, a trap for stopping the suction action in said supply chamber, means extending into the path of

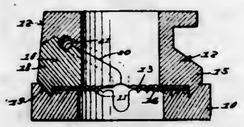
the fuel entering said supply chamber for moving said trap into closed position, and means operated by said float for moving the trap into open position.

1,390,753. SICKLE OR KNIFE. FREDERICK BERGMAN, Chicago, Ill., assignor of one-third to Amuel B. Spach, Chicago, Ill. Filed Oct. 4, 1919. Serial No. 328,474. 9 Claims. (Cl. 56—301.)



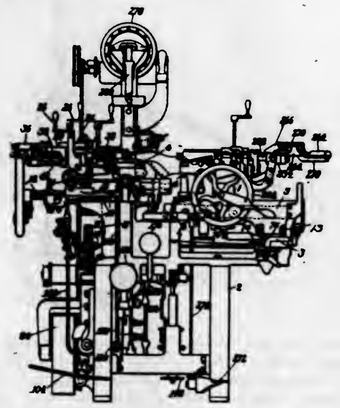
1. A sickle of the character described, comprising a head, a bar secured at one end to said head, a portion of said head being arranged to extend parallel with said bar and provided with an elongated slot disposed above said bar, a plurality of blades or sections formed to be slid onto said bar, the blades or sections at the head-end of the bar being provided on their upper faces with slots, removable keys adapted to extend into the slots in said blades and into the slot in said head and to be secured thereto, and means whereby the outer end blade or section is removably secured to said bar.

1,390,754. MOLDING-FLASK. FRANK M. BIGELOW, Jeannette, Pa. Filed July 9, 1920. Serial No. 394,081. 4 Claims. (Cl. 49—72.)



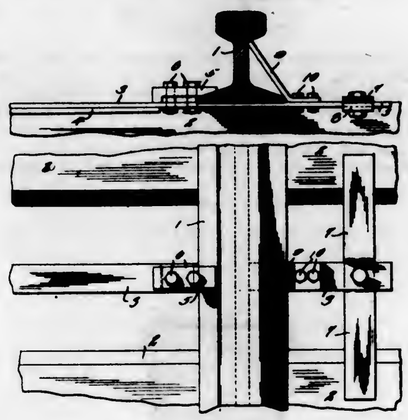
2. A flask for molding receptacles with attached handles having base and cap members provided with complemental rib forming faces, disposed in spaced relation with each other, the cap member comprising separable top and intermediate elements provided in their meeting faces with registering grooves forming complemental members of a handle molding channel.

1,390,755. LASTING-MACHINE. MATTHIAS BROCK, Boston, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Oct. 6, 1916. Serial No. 124,187. 134 Claims. (Cl. 12—14.)



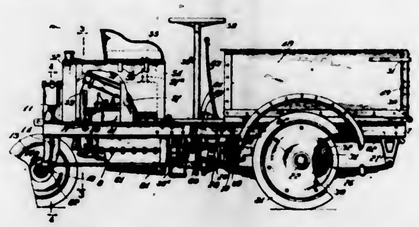
1. A machine of the class described having, in combination, a last and shoe support, end embracing wipers constructed and arranged to embrace and wipe the upper at one end of a supported shoe over the lateral periphery of the last and over the edge of the shoe bottom, a power driven shaft, and operating connections from said shaft relatively to move the shoe support and wipers substantially perpendicularly to the plane of the shoe bottom to permit the wipers to be operated as described, said connections including a clutch member movable from a neutral position to a second position to cause said relative movement in one direction and movable to a third position for causing reverse relative movement.

1,390,756. RAILWAY-TIE BRACE. HOBBY C. BUNNELL, Westport, N. Y. Filed Feb. 4, 1921. Serial No. 442,436. 1 Claim. (Cl. 238—51.)



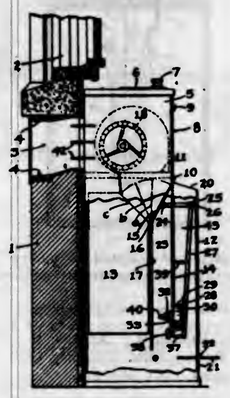
In a rail tie and brace, a sectional brace and tie extending under the rails and lying between the wooden ties, means for clamping the same to the rails, supporting members resting transversely on adjacent ties and having depressed offset portions adapted to receive the outer ends of the brace sections, and bracing means carried by the outer end portions of the said sections for engaging the underside of the rail ball at its point of juncture with the web, as and for the purpose set forth.

1,390,757. AUTOMOBILE-TRUCK. ROBERT J. BURROWS, Buchanan, Mich. Filed Nov. 14, 1918. Serial No. 262,550. 10 Claims. (Cl. 180—54.)



1. An industrial truck comprising a frame, means at the front end portion thereof for supporting the load to be transported, power driven front wheels, a motor mounted on said frame back of said load-supporting means, means operatively connecting the motor with said wheels, ground-engaging steering means at the rear portion of the truck, a driver's seat back of the load-supporting means, and means adjacent to the driver's seat for operating said steering means.

1,390,758. THERMOSTATIC CONTROL FOR DAMPERS FOR UNIT VENTILATORS. MICHAEL J. CALLAHAN, New York, N. Y. Filed May 13, 1920. Serial No. 381,109. 12 Claims. (Cl. 236—13.)



12. An apparatus for controlling the temperature of a room, consisting of a ventilating unit all the elements of which are installed in said room, and comprising a casing divided into a blower chamber, a heating chamber below the blower chamber, and an outlet chamber, and a by-pass chamber the latter being between the outlet and heating chambers; a damper mounted to swing between the heating and by-pass chambers and below the blower chamber; means within one of the chambers for actuating the damper; controlling means for the actuating means located in the room where the apparatus is installed, and means whereby the controlling means is operated by the temperature in the room of installation.

1,390,759. GAS-REGULATOR. BERNHARD G. CARLSSON, Los Angeles, Calif. Filed Apr. 19, 1921. Serial No. 462,742. 6 Claims. (Cl. 116—124.)



1. A gas regulator for motor propelled vehicles, including a dial having a semi-spherical central portion with indicia thereon, for visibly indicating the proper movement of the regulator and a flange surrounding said portion and also having indicia thereon, and an indicator pivotally mounted on said central portion and movable over the face of said dial for registration with said indicia, as described.

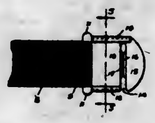
1,390,760. FRUIT-PICKER. CHARLES CHARNOPH, Omaha, Nebr. Filed Jan. 23, 1918. Serial No. 213,301. 2 Claims. (Cl. 56—339.)

1. A fruit picker comprising a semispherical bowl, a chute leading from said bowl consisting of a rigid tubular member, a handle portion at the lower end of said tubular member, and a flexible tubular member secured to the lower end of the rigid tubular member and forming a continuation of the same, cutting means adjacent the



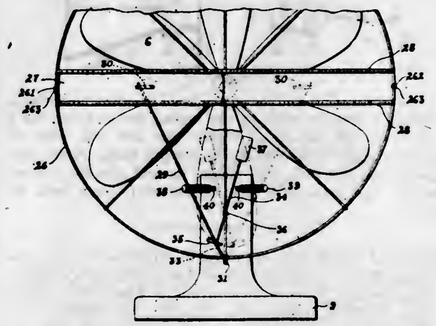
upper edge of the bowl, a lever pivoted to the rigid tubular member, and a connection between said lever and the cutting means, whereby the latter is operated.

1,390,761. BUCKLE AND WRIST-STRAP. GEORGE CHRISTIANSEN, Omaha, Nebr. Filed May 3, 1920. Serial No. 378,550. 2 Claims. (Cl. 24—197.)



1. A buckle comprising a flat body portion having at one end means for connection with the end of a strap, laterally extending lugs at said end of the body, there being at the opposite end of the body a finger spaced therefrom to form a transverse slot open at one end, strap-engaging lips at each side of said transverse slot, and longitudinal inturned flanges at the sides of the body for the purpose described.

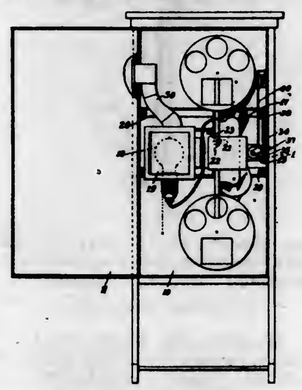
1,390,762. OSCILLATING FAN. PHILIPPE DE CLAMECY, Boston, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Mass., a Corporation of Massachusetts. Filed Oct. 6, 1919. Serial No. 328,686. 9 Claims. (Cl. 230—1.)



1. An oscillating fan having, in combination, a motor, a fan wheel, a support upon which the motor and fan wheel

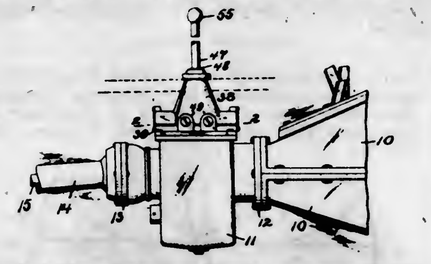
are arranged to oscillate, a vane mounted for rectilinear sliding movement upon the oscillatory element of the fan and normally arranged to obstruct the delivery of air from the fan wheel at one side only of its axis of rotation to effect the oscillation of the fan wheel, and means controlled by the oscillatory movements of the fan for sliding the vane so as to reverse the direction of oscillation of the fan.

1,390,763. MOTION-PICTURE APPARATUS. WILLIAM A. CONDON, Chatham, N. J. Filed July 18, 1917. Serial No. 181,217. 14 Claims. (Cl. 88—17.)



1. The combination with a cabinet of the portable type and provided with a projection aperture; of a motion picture machine inclosed by said cabinet, forming a unit therewith and movably retained therein to oscillate in a vertical plane for the purpose of positioning the lens of said machine relatively to said aperture to properly center the light projected therethrough.

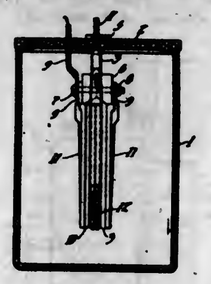
1,390,764. TRANSMISSION DEVICE. EUGENE L. CONORD, Elizabeth, N. J., assignor to Elizabeth Auto Parts Manufacturing Company, Elisabeth, N. J. Filed Dec. 27, 1920. Serial No. 433,327. 7 Claims. (Cl. 74—39.)



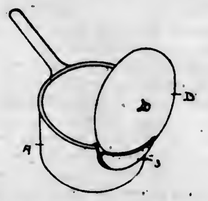
1. In a transmission, a shifting mechanism comprising a casing, a slide movable in the casing, the slide having a transverse slot therein, a center pin and end pins arranged to enter said slot, the center pin being on the side opposite the end pins, and means in said slot for moving the slide and capable of side movement to push back the pins.

1,390,765. GALVANIC BATTERY. HAROLD N. COX, Glen Ridge, N. J., assignor to New Jersey Patent Company, West Orange, N. J., a Corporation of New Jersey. Filed Apr. 12, 1919. Serial No. 289,645. 20 Claims. (Cl. 204—38.

1. A negative electrode for a galvanic battery comprising an element of depolarizing material having a layer of conducting material more electro-positive than said depolarizing material disposed therein intermediate the surfaces thereof which are adapted to oppose the positive electrodes of the battery, substantially as described.

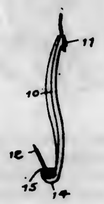


1,390,766. LID-HOLDER. ALBINA J. CUNNINGHAM, Bridgewater, Mass. Filed Oct. 24, 1919. Serial No. 332,895. 2 Claims. (Cl. 53—8.)



1. A detachable lid support for vessels comprising a pocket shaped to receive a lid and curved longitudinally to conform to the side of the vessel to which it is to be applied and having an inturned hook-like member on the upper edge of its inner wall to engage the edge of the vessel, the outer wall of said pocket being lower than the inner wall and more abruptly curved to space it laterally from said inner wall to form a pocket substantially V-shaped in cross section, the outer wall being slightly curved transversely.

1,390,767. FISHHOOK. FRED DAHLGREN, Strandburg, S. D. Filed Feb. 23, 1921. Serial No. 447,126. 2 Claims. (Cl. 43—54.)



1. A fish hook comprising a body portion adapted at one end for engagement with a line, a hook member arranged adjacent the opposite end of the body portion and embodying a shank embedded in the body portion, said body portion being formed of relatively heavy material and comprising a sinker, said body portion being provided at the last named end thereof with an extension, said extension being formed of pliabe non-resilient material whereby said extension may be deformed to engage the end thereof with the hook at a point spaced from said body portion.

1,390,768. SUBMARINE MINE. HERBERT GROVE DORSEY, Dayton, Ohio. Filed Dec. 14, 1915. Serial No. 66,881. 6 Claims. (Cl. 102—8.)



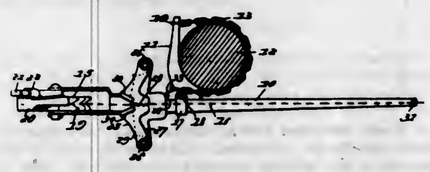
2. A submarine mine having an explosive charge, and control mechanism associated with the mine, said control mechanism comprising a source of electric energy and a circuit therefrom, contacts in said circuit, a plurality of resonator mechanisms controlling said contacts and operative only when subjected to vibrations of predetermined different frequencies for the different resonators, and means exposed to the water of submergence and serving to impart to the resonators submarine vibrations.

1,390,769. HOSE-SUPPORTER. SIMON EICHBERG, Chicago, Ill. Filed Nov. 29, 1918. Serial No. 264,608. 1 Claim. (Cl. 241—1.)



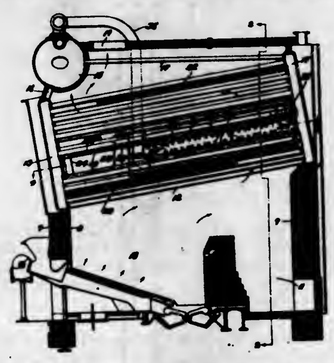
A hose supporter comprising a strip of elastic consisting of an inner wider strip and an outer narrower strip secured to the outer face of said wider strip; eyes arranged at intervals on the outer side of said narrower strip; a loop fixed to the lower end of said elastic; a laterally extending tongue also fixed to the lower end of said elastic and having a hook at its free end adapted to engage said eyes; a tensile element in the form of a strip of non-elastic material fixed to the lower end of said elastic strip; and a hose fastener at the lower end of said tensile element, substantially as described.

1,390,770. FENCE-WIRE STRETCHER. PATRICK H. FINNEGAN, Cresco, Iowa. Filed Nov. 13, 1920. Serial No. 423,774. 4 Claims. (Cl. 254—163.)



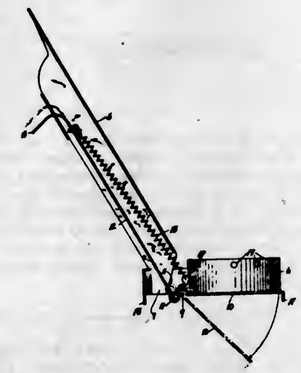
1. A fence wire stretcher having a shank provided intermediately of its length with a transverse bearing arm for contact with a post, and having terminally arranged wire stretching and guiding means, said bearing arm being selectively attachable to the shank at either side thereof.

1,390,771. SUPERHEATED-STEAM BOILER. EDWARDS. RUSSELL FISH, Phoenixville, Pa. Filed Apr. 1, 1919. Serial No. 286,806. 6 Claims. (Cl. 122—478.)



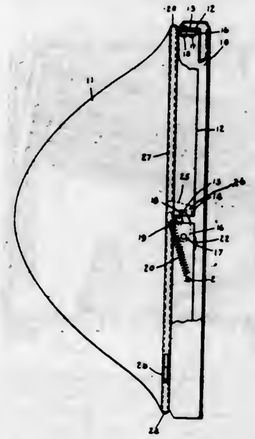
1. A superheated steam boiler including a casing having an opening in its side extending in the direction of the depth thereof; superheater headers spaced one above the other and having an open space therebetween in alinement with said opening, said headers extending in the direction of the depth of the boiler adjacent said side thereof; and superheater tubes connected to said headers and extending into said casing through said opening transversely to the depth thereof, said superheater tubes adjacent their points of connection with the respective headers being bent at diverging angles and joining opposed slanting portions of said headers, said opening being of sufficient length in the direction of the depth of the boiler to permit tubes when detached from said headers to be removed at a slant between the headers in the plane of and outward through said opening into a comparatively narrow space adjacent said side of the casing; substantially as described.

1,390,772. EGG-POACHER. ALFRED FONTAINE, Bridgeport, and CHARLES VINCENT, New Haven, Conn. Filed Mar. 18, 1921. Serial No. 453,350. 3 Claims. (Cl. 53—1.)



1. An egg poacher comprising rings suitably connected together and provided with an upwardly-extending handle, a hinged-plate adapted to close the bottoms of said rings, a rod connected with said plate and extending upward through said handle and provided with a finger-piece, by which the plate may be moved, and a spring tending to hold the plate against the lower edges of the said rings.

1,390,773. LATCH FOR LAMP CONSTRUCTION. HARRY C. FOSTER, Connersville, Ind., assignor to Indiana Lamp Company, Connersville, Ind. Filed July 6, 1920. Serial No. 394,220. 8 Claims. (Cl. 292—198.)



1. A latching device for a lamp construction comprising a rim having a slot therein, a second rim to be latched thereto having a pin receivable by said slot, a U-shaped lever pivotally supported intermediate its axis and adjacent the slot and movable by the pin into position to retain said pin therein, and a spring secured at one end to the end of one of the arms and at the other end to said first mentioned rim, whereby said lever will be yieldingly held in latched or unlatched position thereby.

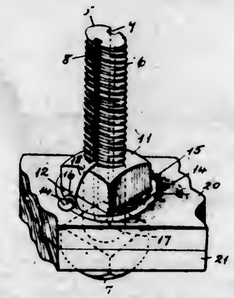
1,390,774. KEY-BASE FOR PLASTIC MATERIAL. JONATHAN O. FOWLER, New York, N. Y. Filed Sept. 21, 1918. Serial No. 255,197. 8 Claims. (Cl. 20—13.)



1. In a device of the class described, a base comprising a sheet of felt having a group of spaced wires disposed in parallel relation on one face thereof and a second group of spaced parallel wires on the opposite face of said sheet, but running in a different direction from those of the first named group, there being spaced perforations in said sheet at points coinciding with the crossing of the wires of the two groups, and solder uniting the crossing wires at said perforations.

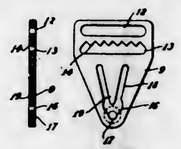
1,390,775. NUT-LOCK. CHARLES FAITZ, Baltimore, Md. Filed Apr. 15, 1920. Serial No. 374,136. 1 Claim. (Cl. 151—4.)

The combination with a threaded bolt having longitudinal grooves at diametrically opposite sides and provided with a cross passage through the bolt body from one groove to another, of a washer-plate having perforations therein; a nut on the bolt, and a wire extending through the cross-passage of the bolt with its ends bent laterally and extending through the longitudinal grooves, said wire end bent outwardly from the opposite grooves and over



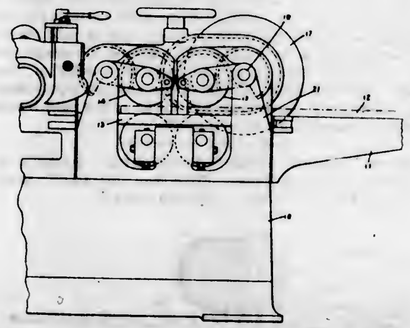
and around the nut and said wire-ends being engaged in the perforations of the washer plate.

1,390,776. CORSET-CLASP. GEORGE W. GARDNER, Bridgeport, Conn. Filed Mar. 1, 1921. Serial No. 448,781. 1 Claim. (Cl. 24—224.)



A sheet metal clasp having means for attachment to a garment and an opening of general circular configuration to receive the head of a stud, said opening having in its side farthest from said means for attachment a relatively small pocket of general semi-circular configuration, and a tongue tapered both as to thickness and width, extending into the circle of said opening for a distance about equal to the depth of said pocket, said tapered tongue being in the plane of said clasp and being defined by diverging slots cut in said metal.

1,390,777. FEEDING DEVICE. MONTE B. GATHMAN, Shelbyville, Ind., assignor to Anton Vonnegut, Indianapolis, Ind. Filed Aug. 20, 1920. Serial No. 404,776. 9 Claims. (Cl. 144—247.)
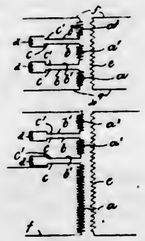


1. A self contained feeding mechanism for molding machines and the like, including a platform upon which the material is fed into the machine, two adjacent pairs of superposed rollers between which the material is adapted to pass, means for pivotally supporting a pair of opposite feed rollers, said pivotally supporting means being arranged to extend toward each other to maintain said feed rollers in substantially tangential relation and in close approximation to each other and the other feed rollers for engaging and feeding short stocks of material, and means for driving said feed rollers.

1,390,778. HAIR-ORNAMENT ATTACHMENT. ISAAC GOLDMAN, New York, N. Y., assignor to Hyman & Oppenheim, New York, N. Y., a Corporation of New York. Filed Mar. 16, 1921. Serial No. 452,658. 4 Claims. (Cl. 132—53.)



4. The combination with a hair piece having a woven anchor end portion and a hair ornament constituting the sole means to fasten the hair piece in wearing position, of means to fasten the hair piece to the ornament comprising a flat plate of thin strong material stitched directly to the anchor end portion of the hair piece, and a film of cement serving to secure the anchor plate directly and permanently against the inner surface of the ornament, substantially as set forth.

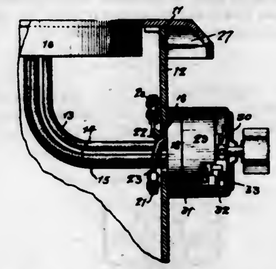
1,390,779. ELECTRICAL APPARATUS HAVING WINDINGS. JOSEPH GOODMAN, Hayes, England. Filed Nov. 20, 1917. Serial No. 202,955. 7 Claims. (Cl. 175—30.)



1. In electrical apparatus, a pair of winding sections and electric stress quenching means alone connecting said sections in direct series relationship, there being consequently no circuit between the sections except that due to the said quenching means.

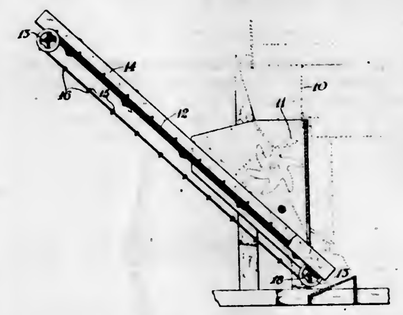
1,390,780. ELECTRIC-RANGE SWITCH. GILBERT W. GOODRIDGE, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Original application filed Oct. 5, 1917, Serial No. 194,932. Patent No. 1,323,047, dated Nov. 25, 1919. Divided and this application filed Sept. 29, 1919. Serial No. 327,066. 5 Claims. (Cl. 219—35.)

1. The combination with an electric range having a front wall and overhanging top, of an electric switch having a base supported in protected position on said front wall below the overhang, main and branch terminals on the outer face of said base, and an independent switch body



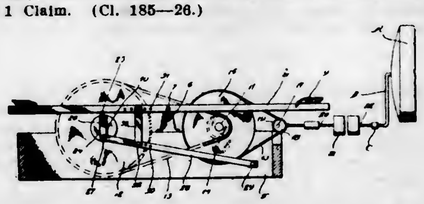
adapted to be secured to said base and having switch terminals adapted to be electrically connected to the corresponding main and branch terminals on the base, substantially as described.

1,390,781. TAILINGS-SEPARATOR. FRANK HAMACHEK, Kewaunee, Wis. Original application filed Aug. 20, 1915, Serial No. 46,445. Divided and this application filed Nov. 19, 1917. Serial No. 202,785. 4 Claims. (Cl. 130—30.)



1. In a pea separator, an inclined conveyer receiving tailings from the drum of the pea separator and comprising an upwardly traveling chaff supporting separating apron, slats on the underside of the apron, and narrow fingers projecting upwardly from the slats through the apron, the apron between the fingers being free from obstruction to form smooth inclined surfaces to permit the peas to roll thereon.

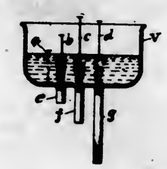
1,390,782. AIR-PUMP. MOSES H. HAMILTON, Forrest City, Ark. Filed Dec. 3, 1919. Serial No. 342,111. 1 Claim. (Cl. 185—26.)



In a motor, a base, spaced transverse shafts journaled upon said base, a pedestal rising from the base, a see-saw beam mounted upon the pedestal, a large sprocket gear fixed to one of the shafts, a relatively small sprocket

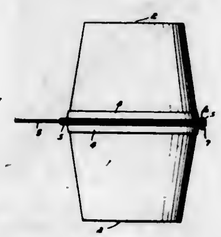
gear fixed to the other shaft, an endless sprocket chain trained over the gears, a disk formed on the shaft having the larger gear, a wrist pin mounted eccentrically in the disk and having a link, a swinging lever pivoted at its end to the base and link, respectively, and an adjustable connection between the beam and lever.

1,390,783. METHOD OF AND APPARATUS FOR TRANSMITTING HEAT. CARL HERING, Philadelphia, Pa. Filed July 17, 1916. Serial No. 100,648. 5 Claims. (Cl. 257—1.)



1. The method of heating a liquid to desired temperature by a hot gas, which consists in transmitting the heat from the gas to the liquid through solid thermal resistances of such magnitudes that they assume at their fire ends a temperature approximately mid way between the temperature of the hot gas and the desired temperature of said liquid, substantially as described.

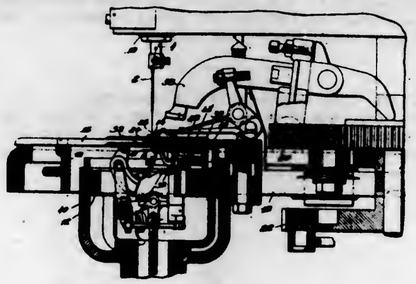
1,390,784. PACKAGE. CLAUDE M. HERRINGTON, St. Louis, Mo. Filed Mar. 12, 1921. Serial No. 451,928. 2 Claims. (Cl. 220—4.)



1. The combination in a package, of two hollow tapered elements having lateral opposed flanges at their large ends, a packing implement and gasket interposed between the large ends and flanges of said elements and separating the contents of one element from the contents of the other, said packing implement and gasket having a handle disposed laterally to the package and projecting an appreciable distance therefrom, and means detachably connecting the flanges and securing the packing implement and gasket between the large ends of the elements.

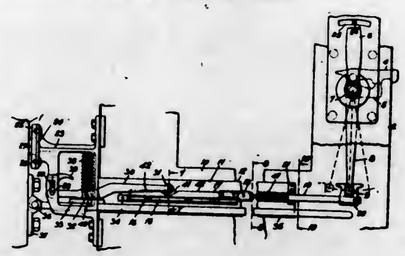
1,390,785. SEWING-MACHINE. GEORGE S. HILL, Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Jan. 28, 1915, Serial No. 4,838. Renewed July 9, 1919. Serial No. 309,778. 11 Claims. (Cl. 112—252.)

1. A buttonhole sewing machine, having, in combination, a work clamp, stitch forming mechanism comprising an upper needle and a complementary under thread mechanism, rotary supports in which the stitch forming mechanism is mounted, means for severing the upper needle thread at the completion of the buttonhole, means for gripping the free end of the upper needle thread below the work during the initial stroke of the needle



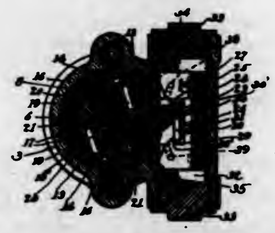
at the beginning of a buttonhole, and mechanism for relatively actuating the stitch forming mechanism and work clamp to sew about a buttonhole.

1,390,786. DOOR-HOLDER. CHARLES P. HOWARD and FRANK E. HOWARD, Hartford, Conn., assignors to James L. Howard & Company, Hartford, Conn., a Corporation of Connecticut. Filed Jan. 22, 1919. Serial No. 272,581. 16 Claims. (Cl. 292—254.)



1. The combination with a door and its operating handle, of a substantially inclosed holding device adapted to hold the door at intermediate positions in its movement, including a brake bar extending into a casing carried by the door, a holding device in said casing, and connecting means between the said device and the said handle whereby the latter in the performance of its door moving functions also controls the operation of the said inclosed holding device.

1,390,787. DRILLING-MACHINE. CHARLES A. HULTQUIST, Los Angeles, Calif. Filed Aug. 26, 1918. Serial No. 251,415. 2 Claims. (Cl. 121—7.)

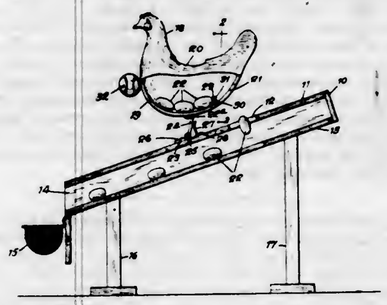


1. In a drilling machine, a head having a plunger chamber, a bushing journaled in the head and adapted to engage a drill steel, a plunger in the plunger chamber having a recess in one side thereof with a flat face, a ring journaled in the head and having an arm extending into the recess in the plunger, means to cause a step-by-step rotation of the bushing when the ring is turned, one side face of the arm and of the recess being grooved, the arm having a boss convex in cross section bearing against the flat face of the recess, a toggle having rounded edges inserted in the grooves respectively, and means to admit compressed fluid alternatively to opposite ends of the plunger chamber to reciprocate the plunger.

1,390,788. METHOD OF PREPARING GELATIN TUBES FOR MEDICINAL PURPOSES. SUMIYUKI IKEDA, Tokyo, Japan, assignor to Tomoda Goshi Kaisha, Tokyo, Japan, a Corporation of Japan. Filed Feb. 3, 1919. Serial No. 274,702. 1 Claim. (Cl. 118—58.)

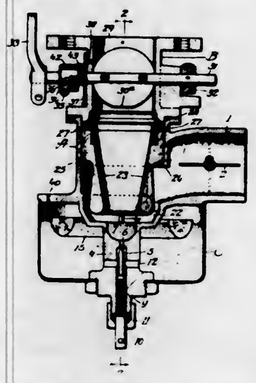
A method of preparing a hollow gelatin rod for introducing a medicinal substance into the urethra, in which a rod is oiled with castor oil and dipped into a warm gelatin solution which is then dried and the hollow gelatin body is subsequently drawn off the original rod.

1,390,789. AMUSEMENT DEVICE. ST. CHARLES JACOBS, Brooklyn, N. Y. Filed Mar. 16, 1920. Serial No. 366,233. 8 Claims. (Cl. 124—15.)



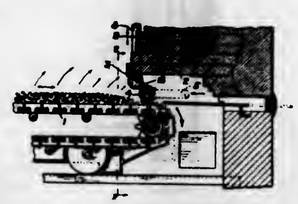
1. An amusement device, comprising a receiver, and a target having a hollow body for holding a prize as well as having an inlet and an outlet, and a spring actuated hinge yieldingly mounting the target on the receiver whereby it will when struck by a missile be tilted for causing the prize to be discharged through the outlet of the body of the target into the receiver.

1,390,790. CARBURETER. JACK W. JOHNSON, Winnetka, Ill. Filed Feb. 9, 1920. Serial No. 357,272. 3 Claims. (Cl. 261—41.)



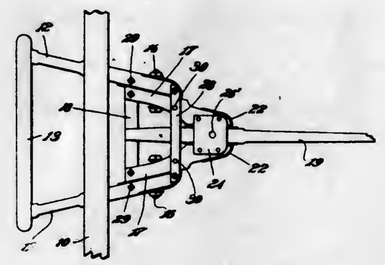
2. In a device of the character described, a constant level chamber, a mixing chamber, the floor of said chamber being substantially at the same level as the surface of the liquid in the constant level chamber, a well formed in the floor connected at its bottom with the constant level chamber, a throttle valve in the outlet of the mixing chamber, a Venturi tube in the mixing chamber with its lower end raised above the floor of the mixing chamber and surrounding the well and spaced from the walls of the mixing chamber, an auxiliary duct extending from a point adjacent the bottom of the well to a point in the outlet of the mixing chamber slightly beyond the throttle valve and an air inlet communicating with said auxiliary duct.

1,390,791. WATER-BACK FOR STOKERS. HOWARD J. KERR, Bayonne, N. J., assignor to the Babcock & Wilcox Company, Bayonne, N. J., a Corporation of New Jersey. Filed Dec. 8, 1917. Serial No. 206,145. 10 Claims. (Cl. 122—4.)



1. A steam boiler furnace comprising a stoker, a bridge wall, and a plurality of water boxes set above the rear of the stoker, each upper box being placed above and in advance of the one immediately beneath it, the lower part of the upper box being below the top of the next one beneath and the distance between the boxes being such that the upper box protects the top of the lower box from the radiant heat of the fire bed.

1,390,792. WAGON-TONGUE. JESSE C. KITTERMAN, Corydon, Ind. Filed Mar. 31, 1919. Serial No. 286,225. 3 Claims. (Cl. 278—86.)



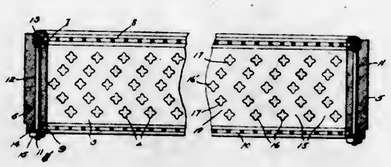
1. An attachment for rigidly connecting a tongue with vehicle hounds, comprising forwardly convergent yoke sides adapted to removably and slidably receive a tongue between them, means for holding the tongue against removal, members secured transversely of the tongue and yoke sides at different points longitudinally thereof and beyond which latter they project laterally and to the upper and lower faces of which yoke sides they are respectively secured, and separate means carried by the yoke sides at points between the transverse members, for attaching the yoke sides to hound members between which they may be disposed.

1,390,793. OIL-TRAP FOR WELLS AND PIPE-LINES. JESSE T. KYLE and VERNON W. RUSSELL, Brea, Calif. Filed Mar. 15, 1920. Serial No. 366,457. 7 Claims. (Cl. 166—16.)



1. An oil trap for the purpose described having separable members adapted for attachment to a well tubing, and provided with a recepticle for receiving the oil and an inclined surface for draining the oil from said tubing into said receptacle.

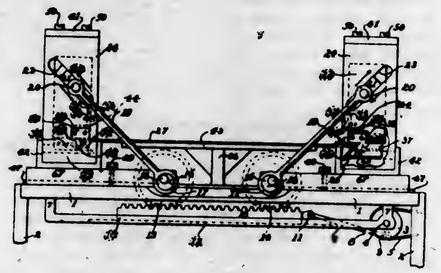
1,390,794. AUTOMOBILE-RADIATOR. GEORGE L. LAKE, New Market, Iowa, assignor of one-half to Elmer C. Eighmy, New Market, Iowa. Filed July 15, 1920. Serial No. 396,394. 2 Claims. (Cl. 257—129.)



1. An automobile radiator, having a front plate, a rear plate, upright radiator tubes arranged in inclined series, each series having a central bend and angularly disposed branches, and a hollow top and a hollow bottom having communication with said tubes, side frame pieces connecting said top and said bottom, said tubes being of sheet metal and having longitudinal joints all accesible from the front and rear of the radiator upon removal of the front and of the rear plate.

1,390,795. APPARATUS FOR FORMING BOX-CORNERS BY CREASING. BERTHOLD A. LANGE, St. Louis, Mo. Filed Nov. 22, 1920. Serial No. 425,652. 14 Claims. (Cl. 93—58.)

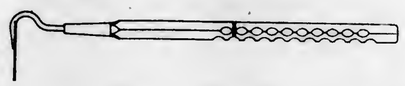
1. In a machine of the character described, the combination of a table, a carriage, guides therefor, a cradle, a block within the said cradle and bearing a female die, a vertically and slantingly movable male die having a projection, and a member adjacent to the same and containing an oblique slot in which the said projection is adapted to move.



1,390,796. PRODUCTION OF TANNIC ACIDS AND EXTRACTS. FRANK LANGFORD, Eureka, Calif. Filed Oct. 2, 1917. Serial No. 194,331. 1 Claim. (Cl. 167—4.)

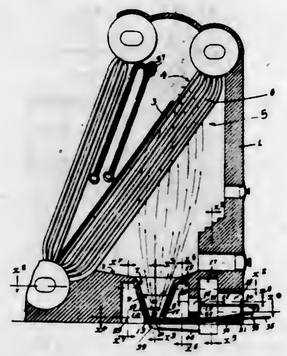
The process of extracting tannins and soluble wood substances from the wood of the *Sequoia sempervirens* and other tannin bearing woods, which process consists in making comminuted wood with pulverised aluminous earths, adding a moistening medium, injecting sulfur gases, injecting air, heating the mixture under pressure greater than atmospheric pressure, and leaching and separating the liquid portion with the material taken up thereby from the insoluble residue.

1,390,797. HOE-HANDLE. CHARLES WILLIAM LEA, Toronto, Ontario, Canada. Filed Nov. 5, 1920. Serial No. 422,071. 1 Claim. (Cl. 55—101.)



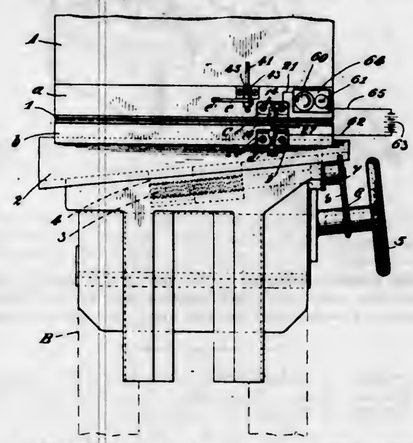
The combination with a hoe, of a handle square in cross section, as distinguished from a handle circular in cross section, with finger rests cut on three edges thereof.

1,390,798. FURNACE. HERBERT V. LEAHY, Los Angeles, Calif. Filed Mar. 15, 1920. Serial No. 365,869. 2 Claims. (Cl. 158—4.)



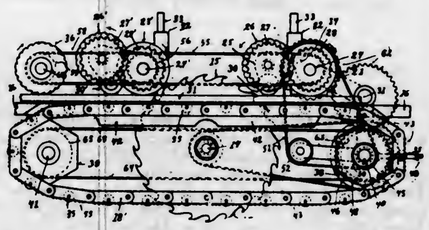
1. In a furnace, means forming a combustion chamber, burners discharging fuel upwardly into the combustion chamber, and walls between adjacent burners, the walls separating adjacent burners having their exposed faces extending aslant upwardly toward each other and there being flues between adjacent walls and that there being ports in the walls opening communication between the flues and the spaces occupied by the burners.

1,390,799. MICROMETER-ADJUSTER FOR EMBOSSING-PRESSES. JULIUS DANIEL LIPPMANN, New York, N. Y., assignor to Emil Weinheim, New York, N. Y. Filed Apr. 18, 1921. Serial No. 462,220. 3 Claims. (Cl. 101—407.)



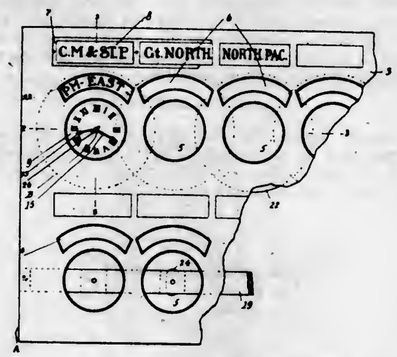
1. Adjustable setting mechanism for presses comprising in combination relatively movable compression jaws; a pressure plate carried by each said jaw; parallel motion means for adjusting the position of one of said pressure plates relatively to a compression jaw; an abutment contact fixed relatively to one of said pressure plates; and a graduated gage having an adjustable contact adapted to coöperate with said abutment contact, said gage being fixed to said adjustable pressure plate.

1,390,800. FEEDING MECHANISM. GEORGE LITTLEFORD, Fort Thomas, Ky. Filed Mar. 1, 1920. Serial No. 362,468. 6 Claims. (Cl. 144—246.)



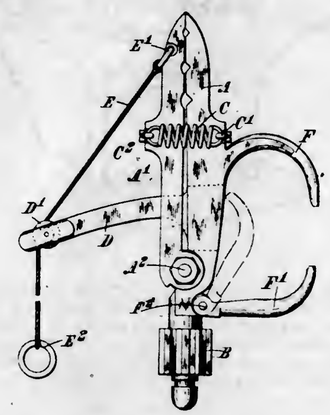
1. In combination with a tool to operate upon the stock, a feed belt means on which the stock is supported and fed past the tool, means to engage the opposite face of the stock from the feed belt means to hold the stock in feeding engagement with the feed belt means, a movably mounted and positively driven reverse feed member to feed a primary stock member back in a reverse direction to an operator as soon as the primary stock member and severed stock member have been severed by the tool, and means actuated by the movements of the severed stock member to shift said reverse feed member into and out of position to engage with said primary stock member.

1,390,801. TIME-INDICATING DEVICE. WILLIAM A. LYONS, Litchfield, Minn. Filed Dec. 4, 1920. Serial No. 428,266. 2 Claims. (Cl. 116—131.)



2. A device of the class described, comprising, a plate, a plurality of spaced indicating devices, arranged in rows on said plate, said devices overlapping each other, each device comprising a clock dial secured over an aperture in said plate so as to be visible from in front of said plate, a spindle revoluble by hand from in front of said dial, said spindle journaled in the center of said dial and disposed perpendicular to the face thereof and extending through and beyond the rear side of the dial, clock hands held frictionally revoluble on the spindle in front of said dial, an aperture in said plate above said dial, a disk positioned concentric with said spindle to the rear of said dial and extending over said aperture, and adjustable holding means engaging said spindle and disk whereby the disk may be held positioned at any arbitrarily selected position longitudinally of said spindle.

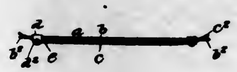
1,390,802. ARTIFICIAL HAND. PETER MURRAY MCKAY, London, England. Filed Aug. 4, 1920. Serial No. 401,111. 3 Claims. (Cl. 3—12.)



3. An artificial hand comprising in combination a socket for engagement with an artificial arm, a finger fixed thereto and extending longitudinally therefrom, a second finger hinged to the first and spring controlled to coöperate therewith, a gripping extension secured to the fixed fingers having its bearing face directed backwardly along

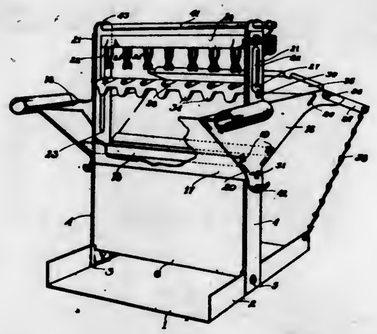
the limb away from the fingers, and a second gripping extension hinged to the fixed finger so as to swing in the plane of the other gripping extension its bearing face being toward that of the fixed arm and arranged so that in one limit of its movement it lies extended opposite the fixed gripping extension and forms an opening into which an article to be gripped can be introduced, and at the other limit of its movement lies in such position that the fixed gripping member is freely exposed.

1,390,803. HAIR-CURLING DEVICE. DAVIS MARINSKY, New York, N. Y., assignor to David Horowitz, Brooklyn, N. Y. Filed Mar. 18, 1921. Serial No. 453,419. 5 Claims. (Cl. 132—41.)



5. A hair curling device of the class described comprising two strips of suitable material, a slide mounted on one of said strips and movable longitudinally thereof and to which one end of the other strip is hinged, the strip on which the slide is mounted, and said slide being provided with means at the end portions of said strip to limit the longitudinal movement of the slide, and said strips being provided with means whereby they may be engaged and disengaged at one end of the device when the slide is at or adjacent to the other end thereof.

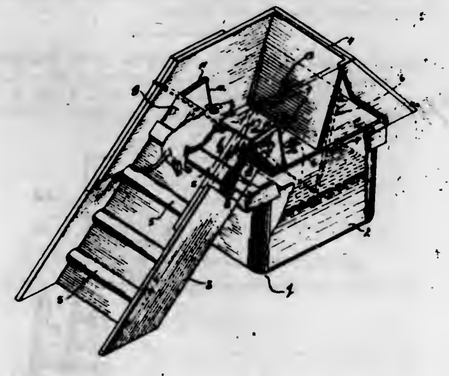
1,390,804. CHERRY-PITTING MACHINE. CHARLES H. MARSHALL, Omaha, Nebr., assignor to Marshall Manufacturing Company, Omaha, Nebr., a Corporation of Nebraska. Filed Dec. 13, 1920. Serial No. 430,197. 13 Claims. (Cl. 146—5.)



1. In a device of the class described, in combination, a pair of standards having openings therein, a channeled member positioned between said standards, a flexible strip lying within the channel of said member, and an elongated member overlying said flexible strip and having its ends extending into the openings in said standards.

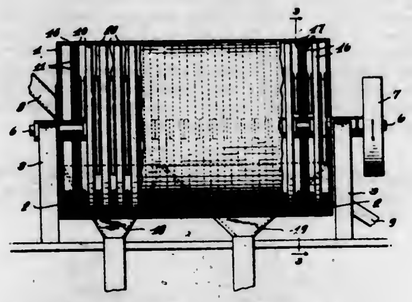
1,390,805. ANIMAL-TRAP. JOSEPH MICHALCZAK, Highland Beach, N. J. Filed Aug. 11, 1920. Serial No. 402,783. 2 Claims. (Cl. 43—69.)

1. An animal trap comprising a tank, a frame mounted upon said tank, a trap door communicating between said frame and said tank, a ladder rising to said tank, a recess having a shoulder above the topmost step of said ladder, a plate normally resting in the mentioned recess, said plate



being pivotally attached to the top of said ladder, arms extending from said panel adjacent said pivotal attachment, and cords connecting said arms with said trap door.

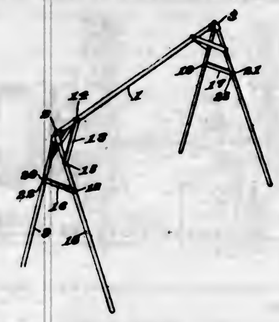
1,390,806. GRAIN-SEPARATOR. ALBERT H. MILLER, Miltona, Minn. Filed July 11, 1921. Serial No. 483,937. 9 Claims. (Cl. 130—18.)



1. A grain separator comprising a container for the grain, a shaft extending therethrough, and having an inlet at one end of said container, and an outlet at its opposite end, a plurality of disks mounted on said shaft, said disks being provided with a plurality of cylindrical recesses or pockets, each pocket having an inclined side, the disks adjacent the inlet end of the container being provided with smaller pockets than those adjacent the outlet end of the container.

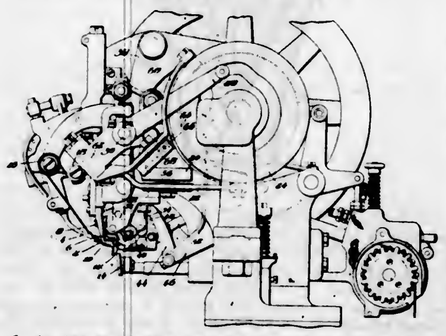
1,390,807. PORTABLE SUPPORT. HARRY MINTZ, Boston, Mass. Filed June 3, 1920. Serial No. 386,334. 3 Claims. (Cl. 5—32.)

1. In a folding hammock support, in combination, a transverse frame member, a socket member carried thereby and having a substantially circular socket, a leg detachably engaging with the socket in said socket member, and a brace member pivotally and permanently connected at its opposite extremities to said frame member and leg respectively, said socket being constructed and arranged to



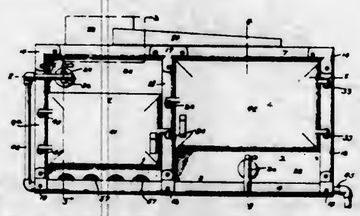
permit said leg to be withdrawn therefrom by swinging said leg in a plane parallel to that of the brace.

1,390,808. INSEAM SEWING-MACHINE. ALFRED B. MORRILL, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 23, 1918. Serial No. 224,328. 6 Claims. (Cl. 112—35.)



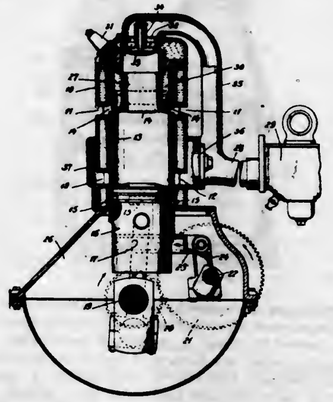
1. An inseam sewing machine, having, in combination, stitch forming and work guiding devices including a channel guide and a needle mounted to oscillate about an axis slightly inclined to the line of feed.

1,390,809. GAS-RANGE. ABRAM C. MOTT, Jr., and ALBERT J. MEYER, Philadelphia, Pa., assignor to Abram Cox Stove Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 1, 1919. Serial No. 307,980. 5 Claims. (Cl. 126—39.)



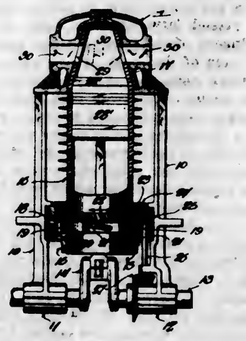
1. The combination in an overhead structure for gas ranges, of a frame consisting of bottom, top, and end plates, all having heavy rolled rims at the front and forming braces to stiffen the structure; and a central division plate of sheet metal, also having a heavy rolled rim at the front; and two cast metal plates, one plate forming part of the front of the oven structure and the other forming part of the front of the broiler structure, the said plates being located back of the vertical rims and having projections extending through the perforations in the rims; and doors hung on the projections.

1,390,810. INTERNAL-COMBUSTION ENGINE. ALDEN E. OSBORN, New York, N. Y. Filed Aug. 7, 1917. Serial No. 184,793. 18 Claims. (Cl. 123—75.)



2. An internal combustion engine comprising a cylinder, a reciprocatory piston, a main inlet and an exhaust port in said cylinder, a sleeve valve for controlling said ports, a piston adapted to coöperate with the sleeve valve in opening said main inlet port, a cylinder head having an auxiliary inlet port adapted to be opened in advnce of the main inlet port, means for controlling the opening and closing of said auxiliary inlet port independently of the sleeve valve, and means for operating said sleeve valve from the piston to cause the sleeve valve to move over one extreme of its travel during the compression stroke of the piston, to move over the other extreme of its travel during the exhaust stroke of the piston and to pass through the intermediate parts of its travel during the suction and power strokes of the piston.

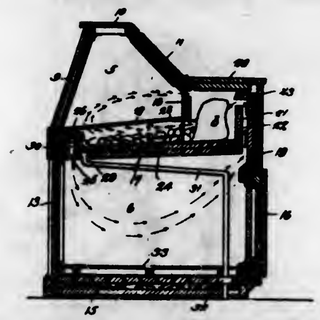
1,390,811. INTERNAL-COMBUSTION ENGINE. RALPH T. OSMAN, Ashland, Wis., assignor of one-half to Elliott W. Sparling, Ashland, Wis. Filed Nov. 9, 1920. Serial No. 422,859. 8 Claims. (Cl. 123—80.)



1. In an engine of the character described, a head provided with a tapered bearing, a cylinder journaled in said

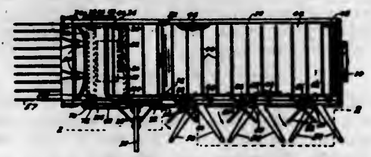
bearing, means for rotating one of said members and a yieldable connection between said means and said rotated member, said connection including a cam for urging the cylinder into said tapered bearing.

1,390,812. REFRIGERATOR-SHOWCASE. REUBEN E. OTTENHEIMER, Baltimore, Md. Filed Mar. 29, 1921. Serial No. 456,772. 1 Claim. (Cl. 62—37.)



A refrigerator show-case having upper and lower display-compartments and a refrigerant-compartment therebetween having, toward its front, a restricted water-outlet to said lower compartment, the bottom of said refrigerant-chamber being downwardly inclined to said outlet, a removable, foraminous shelf disposed above the front portion of said bottom and inclined correspondingly thereto, a vertical partition between the rear end of said shelf and the top of said refrigerant-chamber, and having an air-circulation opening at its top, affording communication between the upper chamber and said refrigerant-chamber at the rear of the latter, said refrigerant-chamber having air-circulation passages at its front and rear communicating with said lower compartment.

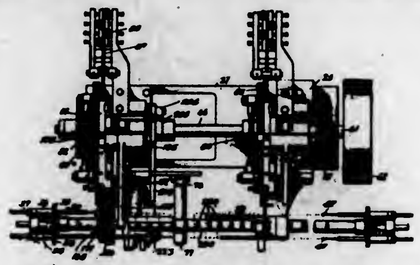
1,390,813. HARVESTER. PARKER A. PUTNAM, Tintah, Minn. Filed Aug. 9, 1918. Serial No. 249,179. 2 Claims. (Cl. 56—67.)



1. A harvester comprising a plurality of pairs of guide fingers in which the fingers of each pair diverge from each other as they extend forwardly, the forward ends of the intermediate fingers of said pairs being positioned close to each other, each of the pairs of said fingers being provided with cutting edges facing each other on their rearward portions, means coöperating with said cutting edges for cutting stalks, arms positioned to rotate over said cutting edges in a horizontal plane, means for rotating said arms in a direction to tip rearwardly the stalks which are being cut, a conveyer belt upon which such stalks are deposited, and a binding device to which said stalks are delivered by said conveyer belt.

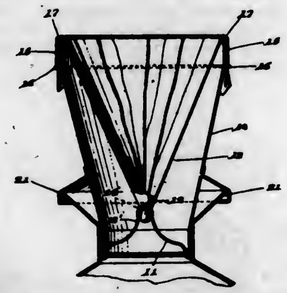
1,390,814. SEMI-AUTOMATIC MACHINE FOR FORMING BED-SPRING FABRICS. ANTHONY RHENSTROM, Kenosha, Wis., assignor, by mesne assignments, of one-half to Charles O. Grafton, Muncie, Ind. Filed Nov. 12, 1917. Serial No. 201,436. 43 Claims. (Cl. 140—7.)

1. In a machine for forming bed spring fabrics and the like, the combination of mechanism for holding a pair of chain sections adapted and intended to form strands of the fabric extending in one direction, means for feeding straight wire into position to connect said chain sections, and mechanism for bending said straight wire to link



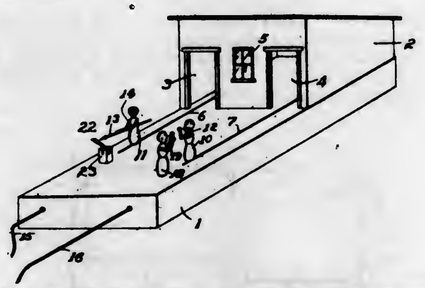
formation to form chains extending at right angles to said chain sections.

1,390,815. MILK-STRAINER. DONALD W. ROSS, Joliet, Ill. Filed Sept. 30, 1920. Serial No. 413,769. 2 Claims. (Cl. 210—159.)



2. A means for retaining the center of a cloth milk strainer in which is disposed a spherical object comprising a funnel and a wire secured in the smaller end of the funnel and extending transversely thereacross, the intermediate portion of the wire being formed with an upwardly directed wedge loop having a narrow entrance throat through which the portion of the cloth above the spherical member is wedged.

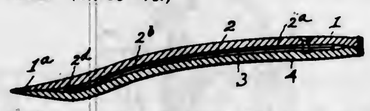
1,390,816. TOY. EDWARD G. RUEHL, Brentwood Calif Filed Oct. 2, 1919. Serial No. 327,912. 1 Claim. (Cl 46—40.)



In a toy the combination of a raised slotted platform, an inclosure over one end of the platform, a slide movable under the platform, a figure carried by a post on the slide projecting through the platform slot, a spring to draw the slide and figure normally into the inclosure, a second figure having movable parts on the platform near one end of its slot, a cord connected to the slide to draw the slide and figure carried thereby toward the second figure, and cords connected to the

movable parts of both figures and to the first cord and platform respectively to cause both figures to make some action when the figures are close together.

1,390,817. ARCH-SUPPORT. ANTHONY RUHL, Cleveland, Ohio. Filed Mar. 22, 1918. Serial No. 284,320. 1 Claim. (Cl. 36—76.)



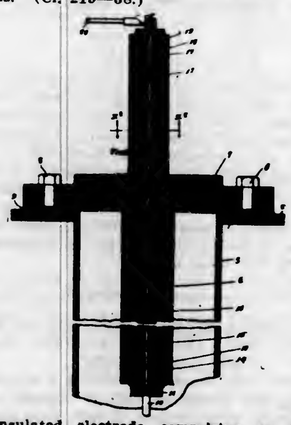
An arch support comprising two firm but flexible members which are secured together at their edges, two metal strips which overlie each other positioned between the said members, said metal strips being secured to each other and to said members at one end of the strips, the remainder of said strips being unsecured, the said strips lying in contact with each other throughout their extent and both of said strips at the unsecured ends being dished with the dished portions overlying.

1,390,818. SUMMER-HAT. SUTEKICHI SAKAGAMI, Osaka, Japan. Filed Mar. 10, 1920. Serial No. 364,755. 1 Claim. (Cl. 2—114.)



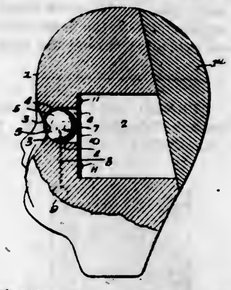
In a hat structure, a crown portion provided with a plurality of ventilating openings, a sweatband arranged in the crown portion, a net lining extending upward from the sweatband and secured at points around the upper portion of the peripheral wall of the crown portion and having a centrally disposed opening, a disk-like door having openings adapted to be moved into and out of registry with the ventilating openings of the crown, said door being supported in desired position by said lining after insertion into such position through the center opening of said lining, and means for drawing the walls of the opening of said lining together after said door has been placed in proper position.

1,390,819. INSULATED ELECTRODE. RAY VAN SANDT, Bakersfield, and WILLIAM T. WILLIAMS, Taft, Calif., assignors of sixty per cent. to William C. Rae, Pasadena, Calif. Filed Dec. 29, 1919. Serial No. 347,886. 6 Claims. (Cl. 219—38.)



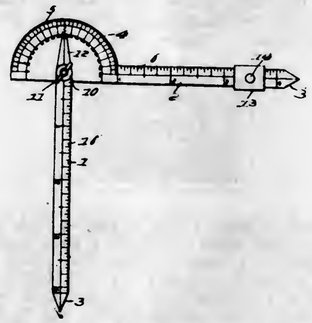
1. An insulated electrode comprising an insulating casing having a longitudinal bore, and an electrode centrally supported within said bore and incased in concentric layers of different insulating materials.

1,390,820. DOLL. HARRY E. SCHOENHUT, Philadelphia, Pa., assignor to The A. Schoenhut Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Mar. 22, 1920. Serial No. 367,960. 2 Claims. (Cl. 46—40.)



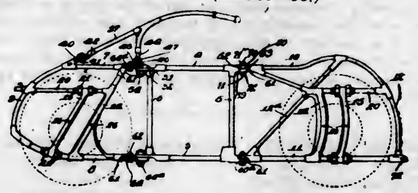
1. The combination of a substantially solid doll's head having a recess at the back, eye sockets spaced apart and extending from said recess toward the front of the head, said sockets having eye openings at their forward ends; an eye member consisting of a cross bar having a ball at each end; a representation of an eye on each ball member; a pendulum depending from the cross bar; and a disk holding the balls in the sockets so that they will turn freely therein.

1,390,821. ANGULAR-MEASURING INSTRUMENT. RUFUS K. SEALS, California, Pa. Filed July 14, 1919. Serial No. 310,642. 2 Claims. (Cl. 33—27.)



1. An instrument of the kind described comprising a pair of beams one of which is formed with a protractor element and the other with a pointer movable over the scale of the protractor, a bolt securing the two beams together at a point concentric with the arc of the protractor, whereby the two beams may be set any desired angular distances apart as indicated by the pointer and the protractor, and a movable slide attachable to either beam and formed with a scribing point.

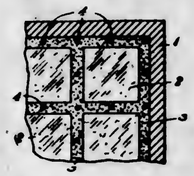
1,390,822. CYCLE. JOHANNES THEODORES SENTROP, Jr., Montreal, Quebec, Canada. Filed Feb. 8, 1918. Serial No. 216,114. 21 Claims. (Cl. 208—93.)



1. In a cycle, the combination of wheels and a frame carrying the wheels, said frame including substantially

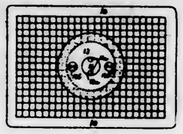
parallel top bars on opposite sides of the wheels and in approximately the same plane at a point above the axles of the wheels and substantially parallel bottom bars on either side of the wheels and in approximately the same plane at a point below the axles, the top and bottom bars at each side of the wheels being substantially parallel and in approximately the same plane at the side of the wheels and extending beyond the said wheels.

1,390,823. BURNING OF CARBON ELECTRODES. SVEN EMIL SIBURIN, Höganäs, Sweden. Filed July 31, 1920. Serial No. 400,514. 4 Claims. (Cl. 204—65.)



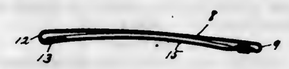
1. The process of producing a carbon electrode which consists in placing a mass of electrode forming material in an electric furnace, surrounding the same with metallic heat initiating means insulated therefrom, passing a current through said means to heat said mass to a predetermined degree, removing said heat-initiating means and continuing the heating through the instrumentality of the mass itself.

1,390,824. PLAYING-CARDS AND GAMES. JAMES R. SILLIMAN, Jr., New York, N. Y. Filed Dec. 23, 1920. Serial No. 432,656. 8 Claims. (Cl. 46—25.)



1. In games of cards, a pack of playing cards capable of being dealt into hands for playing a given game, each card consisting of a single structure and having marks associated therewith, a rotary marking device within and guided by a circular cavity in said card, whereby the cards used by the several players may be readily regrouped into their several hands after being played and mingled together.

1,390,825. HAIR-RETAINING DEVICE. CHARLES SILVERMAN, Providence, R. I. Filed May 26, 1921. Serial No. 472,745. 3 Claims. (Cl. 132—41.)



1. A hair retaining device comprising a resilient arm, an opposing extension upon one end of the arm, a resilient arm rotatable transversely of the first arm pivotally attached at one end to the extension, said arms being normally divergent at their free ends, and a hook upon the free end of one arm adapted to engage the end of the other arm.

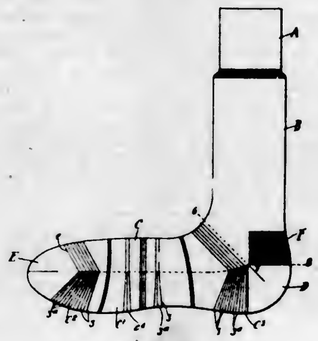
1,390,826. RIM-TOOL. FREDERICK E. SMALL, Needham, Mass. Filed June 1, 1920. Serial No. 385,402. 2 Claims. (Cl. 157—1.)

1. Rim expanding or contracting means, adapted to be either expanded or contracted by the purely expanding action of a jack, comprising a pair of unconnected rim gripping devices affording each a positive abutting surface for the usual thrust-surfaces of an interposed jack,



and also a surface engageable oppositely from the first-mentioned surface for contracting action and an endless flexible element capable of being looped about both said clamps and of receiving a jack within its loop.

1,390,827. SEAMLESS TUBULAR KNIT FABRIC AND PROCESS OF KNITTING THE SAME. WILLIAM E. SMITH, Milltown, N. J., assignor to The Interwoven Mills, Inc., New Brunswick, N. J., a Corporation of New Jersey. Filed May 5, 1919. Serial No. 294,784. 9 Claims. (Cl. 66—4.)

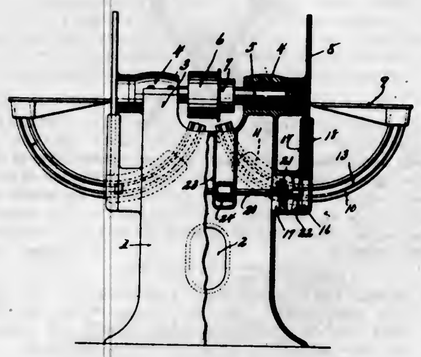


1. The herein described process of knitting a circular knit tubular fabric, which consists in feeding a continuous main knitting thread circularly and continuously in the same direction, and forming a plurality of circular courses of stitches and preventing the formation of stitches through portions of single courses located in the same segment of the fabric, to produce single partial courses of stitches in the other segment of the fabric between adjacent circular courses knit with the same thread, all the stitches of the circular and partial courses being of substantially the same size.

1,390,828. ABRADING-MACHINE. WILLIAM H. SMITH, Milwaukee, Wis. Filed Jan. 13, 1921. Serial No. 436,897. 1 Claim. (Cl. 51—273.)

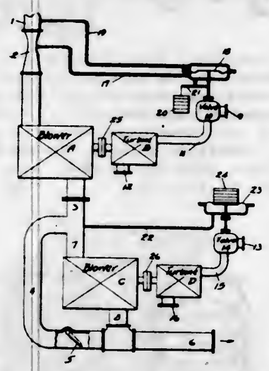
In a device of the character described, a rotatable shaft, an abrading disk carried at each end thereof, a housing surrounding the lower portion of each disk, a bifurcated receptacle between the housings, a passageway connecting each housing with the receptacle, a second shaft extending through the furcations of the receptacle parallel to the

first shaft and having its ends projecting into the passageways, means on the second shaft between the furcations



for forming a driving connection with the first shaft, and a fan mounted on each end of the second shaft for blowing the dust from the disks into the receptacle.

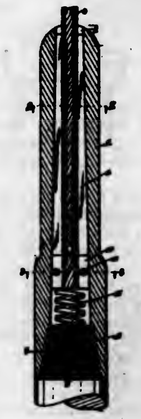
1,390,829. METHOD OF REGULATING BLOWING-ENGINES. CHARLES H. SMOOT, South Orange, N. J., assignor to Rateau Battu Smoot Engineering Corporation, New York, N. Y., a Corporation of Delaware. Filed Oct. 25, 1920. Serial No. 419,268. 2 Claims. (Cl. 103—85.)



1. The method of regulating turbo blowers operating in series which consists in regulating the first turbo blower for constant predetermined volume and regulating the second turbo blower for constant predetermined inlet pressure.

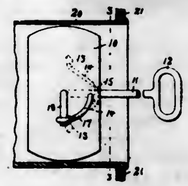
1,390,830. WIRE-ROPE SOCKET. DANIEL WILLIAM SNOW, Fillmore, Calif. Filed June 11, 1920. Serial No. 388,097. 2 Claims. (Cl. 24—136.)

2. A rope socket having a bore, slips received in said bore and engaging a rope, and coöperating clamping members received in said bore beyond said slips, said clamping members having coöperating axial recesses spirally



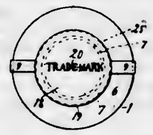
grooved to engage the strands of a rope, and means for clamping said members to the rope.

1,390,831. FLUE-CLEANER. JOHN SODERQUIST, Beloit, Wis. Filed July 29, 1920. Serial No. 399,794. 3 Claims. (Cl. 83—64.)



1. In a flue cleaner, a plate having a keeper secured thereto and in parallel relation therewith, and a turning rod passing through said plate and rotative through the plate and coupled therewith and having a right angled projection movable between the keeper and plate, said rod having a reverse bend at the juncture of the rod and the projection thereof, whereby the plate may be disposed substantially parallel to the longitudinal axis of the rod for passage in one direction through a flue and disposed at right angles to the rod by partially rotating the same for moving the plate in the opposite direction through the flue.

1,390,832. CLOSURE FOR BOTTLES AND OTHER CONTAINERS. THOMAS C. SPELLING, New York, N. Y. Filed Sept. 26, 1918. Serial No. 255,777. 5 Claims. (Cl. 215—92.)



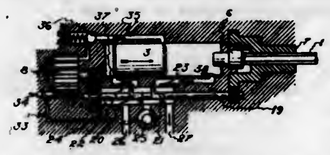
1. In a closure for a bottle or other container, a seal member of rubber, underlying a cap member, or other suitable material, the seal member having a circular central section of its vertical dimension removed to render it yieldable to pressure against it underneath.

1,390,833. CLOSURE FOR BOTTLES AND OTHER CONTAINERS. THOMAS C. SPELLING, New York, N. Y. Filed Oct. 3, 1918. Serial No. 256,647. 12 Claims. (Cl. 215—64.)



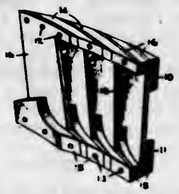
1. In a closure for a bottle or other container, a bottle formed with an undercut, apertured rim, the upper side of the rim having a level outer and an upwardly slanted interior section and a trenched and notched shoulder, and, opposite the shoulder, an opening for a pivotal attachment, the aperture adapted to be fitted with an axle and the shoulder shaped and formed for locking engagement with a spur on the terminal of a binder.

1,390,834. MOTOR-ROTATION IMPACT-TOOL. HAROLD I. STAGE, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Oct. 15, 1919. Serial No. 330,897. 15 Claims. (Cl. 121—5.)



1. In a fluid operated percussive tool of the separate motor-driven rotation type, the combination of inlet and exhaust valves operated by the rotating motor and governing means for said rotating motor controlled by the impact motor piston action.

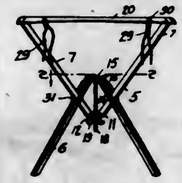
1,390,835. METHOD OF MANUFACTURING NOZZLE-DIAPHRAGMS FOR ELASTIC-FLUID TURBINES. CHRISTIAN STEENSTRUP, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Aug. 17, 1920. Serial No. 404,242. 6 Claims. (Cl. 29—23.5.)



1. The method of manufacturing a nozzle ring for elastic fluid turbines which comprises taking two rings, cutting them into prismatic blocks, shaping surfaces of said blocks to form walls of the correct contour for the nozzle passages, assembling the blocks into rings with nozzle partitions between the blocks, and permanently uniting the assembled structure by fusion of metal.

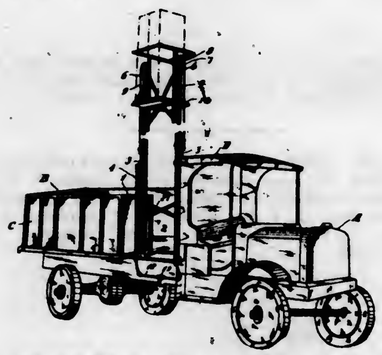
1,390,836. CAMP-STOOL. FRANK M. STOLL, Denver, Colo. Filed May 19, 1919, Serial No. 298,307. Renewed Aug. 2, 1921. Serial No. 489,204. 3 Claims. (Cl. 155—136.)

1. A camp stool comprising legs and seat supporting bars pivotally connected together intermediate their extremities, a post to which one end of the legs are pivotally connected, a block slidable upon the post and to which the seat supporting bars are pivotally connected at their normal lower extremities, a nut threaded upon the post adapted to engage with said block and forming a stop to the downward movement of the block upon the



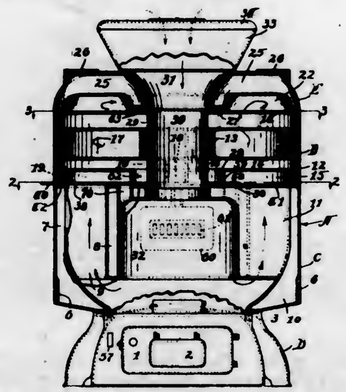
post, and a seat connectd with the upper extremities of the said seat supporting bars, the upper extremities of said seat supporting bars adapted to be moved outwardly on the pivots of said seat supporting bars by the upward movement of said nut for placing the seat in a condition of tautness.

1,390,837. ELEVATOR FOR AUTOMOBILE-TRUCKS AND THE LIKE. JOHN H. STUBBE, Pittsburgh, Pa. Filed Nov. 14, 1919. Serial No. 338,027. 11 Claims. (Cl. 187—9.)



1. The combination with an automobile-truck, of an elevator carried by the body at one side thereof and adapted to form a guard for the body when lowered, and means for operating said elevator.

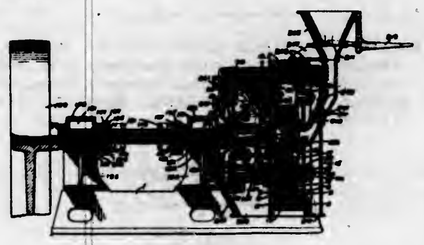
1,390,838. HEATING-BOILER. ROBERT E. STURMAN, Delano, Minn. Filed June 18, 1917. Serial No. 175,384. 4 Claims. (Cl. 122—219.)



4. In a boiler of the class described, comprising a fire box section, a top section, an intermediate section between

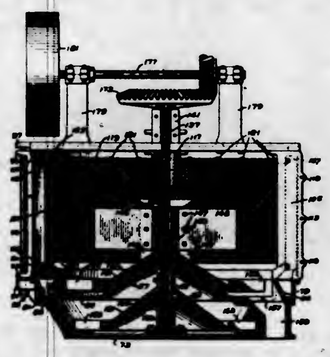
said fire box section and top section, cylindrical inner and outer water compartments formed in said fire box section, vertically and radially extending water passages connecting said inner and outer water compartments, a ring like water compartment positioned inside the upper end of said inner compartment, water passages connecting said ring like compartment with said inner compartment, smoke passageways between said last mentioned water passages and a horizontal damper having means for opening or closing said smoke passageways between said water passages connecting said inner and ring like water compartments.

1,390,839. CRUSHING-MILL. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed May 1, 1919. Serial No. 293,906. 18 Claims. (Cl. 83—9.)



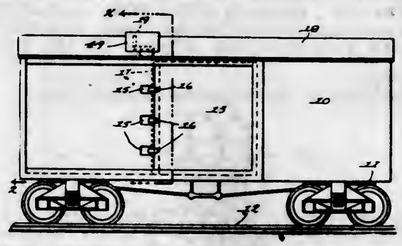
1. A crushing mill, comprising, in combination, a fixed ring having a crushing surface, a main shaft, a head carried by said shaft, rock shafts fulcrumed on and carried by said head, rolls journaled on said rock shafts and pressed toward said crushing surface by centrifugal force when given a planetary motion, an equalising member fulcrumed on said main shaft, arms projecting from said rock shafts, spring connections between said arms and equalizing member, a rotary feeder having passages to deliver material to be crushed, and means to feed the material centrally to said rotary feeder that the material may flow outward through said passages under the influence of centrifugal force.

1,390,840. MACHINE FOR REDUCING AND SEPARATING MATERIALS. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed May 26, 1919. Serial No. 299,722. 10 Claims. (Cl. 83—54.)



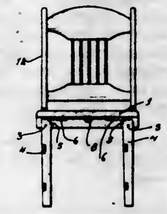
1. A machine of the character described, comprising, in combination, a separator provided with a casing having parts hinged together on a vertical axis, a screen within said casing formed in sections and having the sections carried bysaid parts that access may be had to the screen sections and interior of the separator by swinging part of the casing outward, a cover for the separator formed in sections and carried by the casing parts, a vertical shaft having a bearing mounted on one of said casing parts, and a rotary fan secured to said shaft for producing air currents to project materials to be graded through said screen.

1,390,841. LOCK. ALIX SWINTI, Detroit, Mich., assignor of one-half to Joseph Moranic and Mike Zlotorowics, Detroit, Mich. Filed Jan. 21, 1921. Serial No. 438,819. 6 Claims. (Cl. 70—31.)



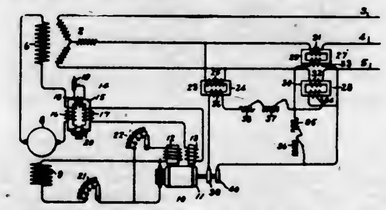
3. In a freight car door locking device, a locking means for opposite doors of a car, comprising two vertical bars provided with fingers adapted to engage both car doors and means for locking said locking means.

1,390,842. COLLAPSIBLE CHAIR. WOJCIECH SZOSTEK, Three Rivers, Mass. Filed June 18, 1921. Serial No. 478,514. 1 Claim. (Cl. 155—148.)



A collapsible chair comprising a seat, elements depending from opposite edges of said seat, spindles pivotally mounted in said elements, legs rigidly secured to said spindles, toothed sectors on the upper ends of said legs, rack bars in engagement with said sectors and slidably mounted on the underside of said seat, a lever pivotally mounted on the underside of said seat and having spaced apart slots therein, and pins on said bars lying in engagement with said slots.

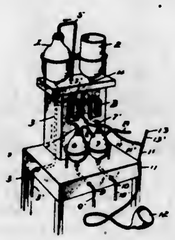
1,390,843. REGULATING SYSTEM FOR DYNAMO-ELECTRIC MACHINES. LOUIS W. THOMPSON, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed July 10, 1918. Serial No. 244,169. 7 Claims. (Cl. 171—241.)



1. The combination with an alternating current generator having an armature winding and an exciting wind-

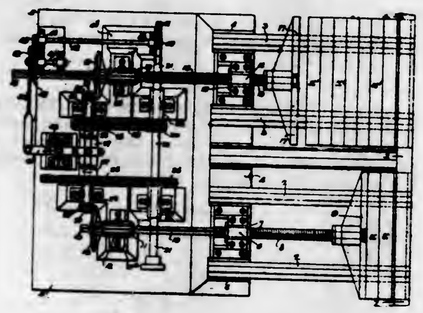
ing, of a rotary converter having its direct current side connected so as to control the current in said exciting winding and its alternating current side connected so that the voltage impressed thereon varies with an electrical condition of said armature winding, and means responsive to variations in the current in said exciting winding for retarding the variations in the direct current voltage of said converter upon variations in said electrical condition of said armature winding.

1,390,844. HYDRAULIC GASTRIC EXAMINER OR HYDRAULIC STOMACH-EXAMINING APPARATUS. KOMANOSUKE TOGAMI, Fukuoka, Japan. Filed Feb. 17, 1919. Serial No. 277,694. 2 Claims. (Cl. 128—276.)



1. In a hydraulic gastric examining apparatus comprising a stand provided with superposed steps, a closed and an open vessel supported on the top step for receiving water and a wash lotion respectively, a discharge pipe and control valve therefor connected to each of said vessels, a pair of closed connected vessels supported on the lower step and communicating with the upper vessels whereby low pressure is produced in the connected vessels when the water is discharged from the upper closed vessel reducing the atmospheric pressure therein and a closed pipe having a gastric catheter communicating with one of said lower closed vessels for removing the gastric juice from the stomach of the patient as the water is discharged from the upper closed vessel.

1,390,845. BILLET-CHARGING APPARATUS. HORACE TOMLINSON, Philadelphia, Pa. Filed July 8, 1920. Serial No. 394,853. 9 Claims. (Cl. 198—24.)



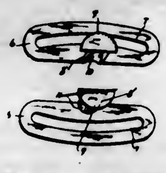
1. The combination in a billet charging apparatus of two pushers; a continuously actuated main shaft; an intermediate shaft connected to both pushers; two members driven in opposite directions from said main shaft; and automatic mechanism for alternately connecting said members to the intermediate shaft.

1,390,846. BRAKE SHOE AND HEAD. CHARLES I. WALKER, San Francisco, Calif. Filed June 1, 1920. Serial No. 385,521. 6 Claims. (Cl. 188—243.)



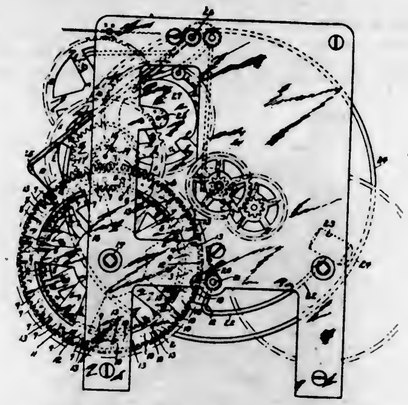
5. A combined, mutually interlocked brake shoe and head, and a pin passed through the same on a longitudinal line of the parts and means engaging the pin to restrain motion of the shoe in one direction, said means including a clip with a hook adapted to straddle the pin and having an arm to reach around one side of the shoe.

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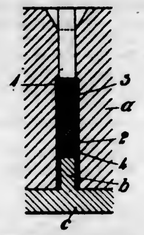
2. A two-part flexible button consisting of two one-piece independent half parts, each having a threading-base and a centrally-arranged upstanding half-shank; in combination with a flexible collet applied over the half-shanks for binding them together.

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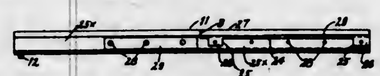
1. A ship's bells clock having a strike-train including a pin-wheel, pins mounted therein singly and in pairs, in accordance with the divisions of ship's bells, and a hammer-operating member acted upon in sequence by all of the said pins, whereby, by arranging the bells singly and in pairs, compensatory spaces are provided between them for the reception of the hammer-operating member and mis-striking avoided.

1,390,849. METHOD OF LOADING DETONATING-CAPS. TORSTEN WENNERSTRÖM, Bofors, Sweden. Filed Apr. 15, 1919. Serial No. 290,319. 2 Claims. (Cl. 86—20.)



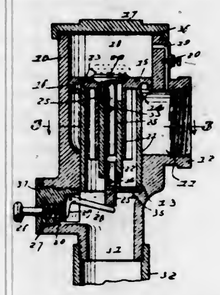
1. An improved method of loading detonating caps open at both ends thereof, which consists in inserting a cap within said open-ended cap, introducing an initial loading into said inner cap, introducing into the open-ended cap a main loading through its open bottom and subjecting the whole contents of the two caps to pressure in a single operation.

1,390,850. RAILWAY-SWITCH POINT. EARL M. WILSON, St. Paul, and EARNEST S. SHAMAN, Minneapolis, Minn. Filed May 16, 1921. Serial No. 469,854. 2 Claims. (Cl. 246—437.)



1. A railway switch point consisting of a main section pivotally jointed at one end to the main track rail and having at the other end the tread of the rail cut away and the web of rail therebelow formed with gaps having vertical edges; a second joint section comprising mainly a rail tread portion with downward lugs fitting in the said gaps, fish-plates extending one along each side of said sections and bolts having countersunk heads and extending horizontally through said fish-plates and the intermediate web and lugs, for securing the parts together; said second section being wedge-shaped toward its free end and removable upward when the bolts through its lugs are withdrawn.

1,390,851. FLUSH-VALVE. HENRY J. WINCKLER, San Antonio, Tex. Filed Dec. 9, 1919. Serial No. 343,485. 3 Claims. (Cl. 137—93.)



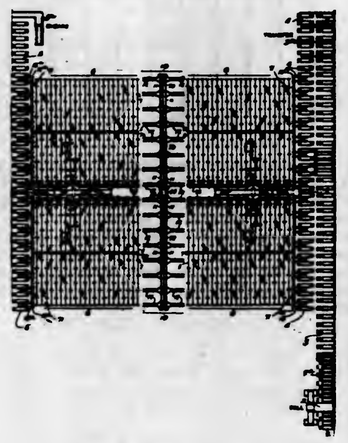
3. A flush valve mechanism having an outlet valve seat, a piston valve disposed to engage the seat and having a surface exposed exteriorly thereof to valve unseating service pressure, a pressure chamber accessible to reduced service pressure and to which the opposite surface of said piston valve is exposed, said piston valve being provided with a relief port and a communicating sleeve forming an exhaust passage, a tubular guide upon which said sleeve is mounted for movement with the piston valve, a relief valve seatable to close said relief port and exposed to the pressure within said pressure chamber and having a tubular stem movable in said tubular guide, and means for operating the relief valve to unseat the same.

1,390,852. BUNK. ROLLIN WOOLLEY, Carlton, Oreg. Filed Aug. 4, 1920. Serial No. 401,113. 6 Claims. (Cl. 280—144.)



1. A bunk comprising a channel bar, longitudinally extending ribs carried on the inner faces of the upright faces of said channel bar above the bottom thereof, blocks slidable longitudinally of said channel bar and provided with terminals disposed beneath said ribs, the latter thus constituting tracks to guide said blocks in their movement longitudinally of the channel bar, and means carried by said blocks for holding the same in adjusted position, said holding means comprising a plate carried by each block and adapted to engage the upright flanges of the channel bar, the upright flanges of said channel bar being for this purpose provided with notches adapted to receive said plate.

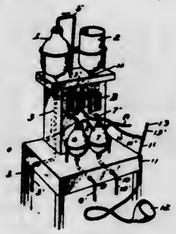
1,390,853. ROLLER TRANSFER-TABLE. JOHN S. WORTH, Coatesville, Pa., assignor to Worth Brothers Corporation, Claymont, Del., a Corporation of Delaware. Filed Jan. 17, 1920. Serial No. 352,067. 10 Claims. (Cl. 80—44.)



1. The combination of a rolling mill; a table to receive the plates from the mill; a shears; a roller table for directing the plates to the shears, said tables being spaced apart; a transfer table located between the rolling mill table and the shears table, said transfer table comprising a series of rollers for supporting the plates; and means for driving said rollers.

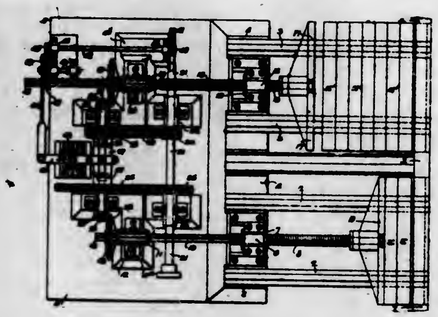
ing, of a rotary converter having its direct current side connected so as to control the current in said exciting winding and its alternating current side connected so that the voltage impressed thereon varies with an electrical condition of said armature winding, and means responsive to variations in the current in said exciting winding for retarding the variations in the direct current voltage of said converter upon variations in said electrical condition of said armature winding.

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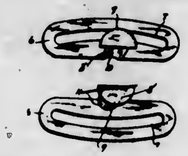
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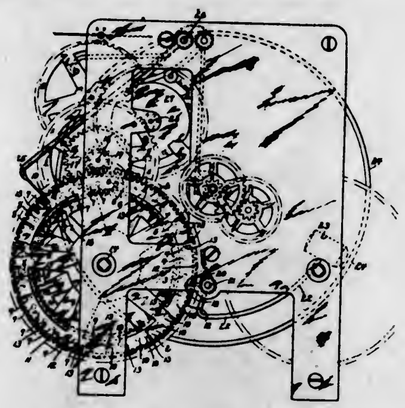
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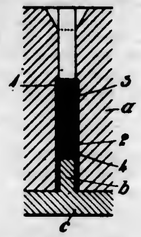
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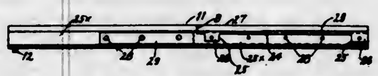
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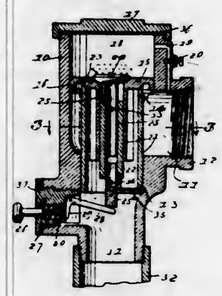
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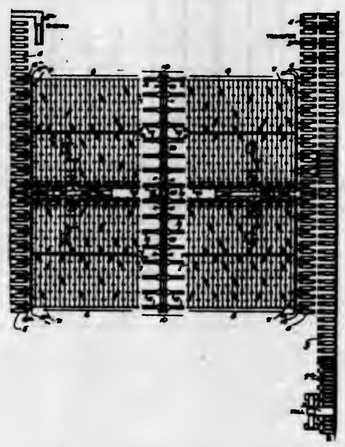
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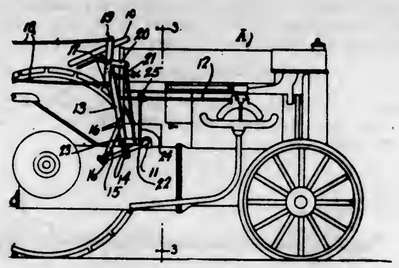
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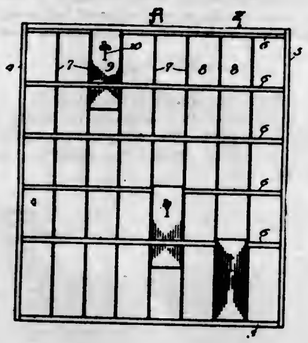
1. The combination of a rolling mill; a table to receive the plates from the mill; a shears; a roller table for directing the plates to the shears, said tables being spaced apart; a transfer table located between the rolling mill table and the shears table, said transfer table comprising a series of rollers for supporting the plates; and means for driving said rollers.

1,390,854. THROTTLE CONTROL FOR TRACTORS. HERBERT E. ABBOTT and EZRA ENZ, Oakville, Iowa. Filed Nov. 20, 1920. Serial No. 425,423. 5 Claims. (Cl. 180—77.)



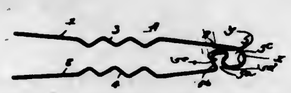
1. A clutch and throttle control mechanism for tractors, comprising an upright secured to the clutch pedal, a lever fulcrumed upon the upright, flexible elements connected to the extremities of said lever, and controlling the movement of the latter, said upright being adjusted to disengage the clutch when said lever reaches a predetermined position, and a connection between said lever and the throttle whereby the latter is controlled independently of the clutch adjustment.

1,390,855. JEWELER'S TRAY. ADOLPH Y. S. ALBUM, Chicago, Ill. Filed Dec. 29, 1920. Serial No. 433,814. 3 Claims. (Cl. 211—28.)



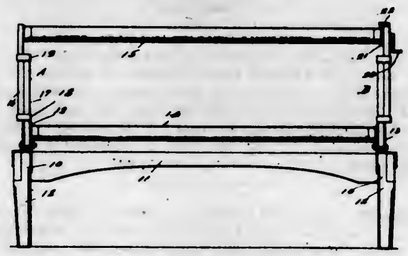
2. A tray for display cards having a bottom wall, a plurality of spaced strips extending in one direction on the tray and spaced from the bottom thereof, so positioned relative to each other and the bottom of the tray that a flexible display card may be inserted between the top of one strip and beneath an adjacent strip with one end engaging the bottom of the tray whereby said card is maintained in position due to the flexure of the same between said strips.

1,390,856. HAIRPIN. ADOLPH Y. S. ALBUM, Chicago, Ill. Filed Dec. 29, 1920. Serial No. 433,816. 11 Claims. (Cl. 132—50.)



9. A hairpin comprising a pair of tines connected together at one of their ends, one of said tines being bent adjacent the closed end of the pin to form an open-loop, said loop projecting inwardly between the tines and spaced from said other tine to provide a pocket between the loop and the closed end of the pin for receiving hair embraced by the pin, said open-loop also providing a notch between the ends thereof and opening exteriorly of the pin to receive hair lying outside of the pin, said notch having an entrance extending in the general direction of said tine and directed toward the closed end of the pin, the surface of said loop opposite the closed end of the pin and the surface of said notch nearest the open end of the pin being concaved for the purposes set forth.

1,390,857. QUILTING-FRAME. RUFUS R. ALLEN, Clarinda, Iowa. Filed May 3, 1921. Serial No. 466,554. 1 Claim. (Cl. 45—24.)



A quilting frame of the character described comprising a base, a roller journaled thereon, and sections pivoted upon the base, each section comprising spaced parallel arms, each arm being made up of slidably associated members, a roller journaled between the corresponding members of each pair of arms, whereby the rollers of the end sections may be moved toward and away from the first mentioned roller to vary the length of the frame, means for rotating the roller of each end section, and a pawl and ratchet for each of said rollers to prevent retrograde movement thereof.

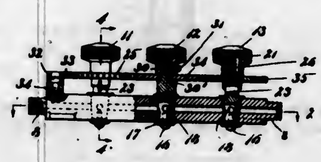
1,390,858. SYRINGE-HYDROMETER. RALPH A. AMERMAN, Scranton, Pa., assignor to Scranton Glass Instrument Company, Scranton, Pa., a Corporation of Pennsylvania. Filed Aug. 25, 1920. Serial No. 405,826. 3 Claims. (Cl. 265—45.)



1. In a syringe hydrometer, the combination of a housing having a cylindrical body portion of uniform diameter having at one end a reduced extension and outwardly flared at the other end so as to form a flange, a collapsible

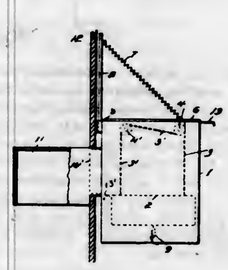
bulb connected to said reduced extension, a polygonal collar bearing against said flange, a hydrometer element within the housing having means associated therewith for maintaining said element in symmetrical relation with the walls of said body portion and a closure for the opposite end of said housing having a nossle mounted therein.

1,390,859. THREE-VALVE AUTOMOBILE GASOLENE-LOCK. STANISLAUS B. ANDRZEJEWSKI, Boston, Mass. Filed Feb. 25, 1921. Serial No. 447,851. 7 Claims. (Cl. 251—6.)



1. A gasolene lock for automobiles consisting of a pipe, a plurality of valves for shutting off the flow of gasolene through the pipe, each valve being provided with the gear normally in mesh with the gears of the other valves and having a series of marks thereon, and means for throwing the gears out of mesh, substantially as shown.

1,390,860. AUTOMATIC PRODUCTIVE-HEN-SELECTING APPARATUS. KICHIJIRO ARAKI, Kagoshima, Japan, assignor of one-fourth to Goken Nakamura, Kobe, Japan. Filed July 22, 1920. Serial No. 398,206. 1 Claim. (Cl. 119—50.)



In an automatic hen selecting apparatus, an open casing supported contiguous to an open partition, a low, rectangular breeding box vertically and freely movable within said casing and below the opening in the partition, pulleys and flexible elements trained thereon secured in the upper sides of the casing, and supporting said breeding box, a hinged cover for said casing, and connected near its forward portion to said flexible elements, a post carried by the casing, a coiled spring connecting said hinged cover to said post, a second coiled spring connecting the bottom of the breeding box to a strip in the bottom of the casing to resiliently support a hen as the hinged cover is closed, and a closure member open at its bottom within the open partition for excluding light from said breeding box and forming an exit from the casing.

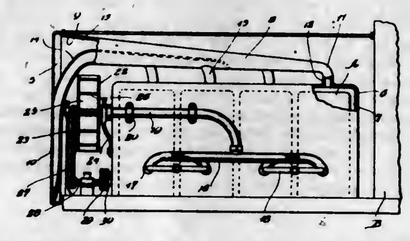
1,390,861. PRODUCTION OF ANIMATED PICTURES. THOMAS ARMAT, Washington, D. C. Filed July 7, 1916. Serial No. 108,016. 7 Claims. (Cl. 88—19.5.)

1. In the art of producing animated pictures, a film having thereon a series of picture areas with a plurality of impressions of the same object on the same area, said impressions being slightly displaced with relation to each other in the direction of movement of the object, and one



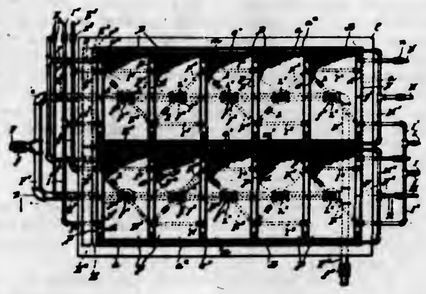
of said impressions being dominant and the other secondary in intensity.

1,390,862. AIR-COOLING SYSTEM. EARL H. ARMES, Julesburg, Colo. Filed Dec. 24, 1919. Serial No. 347,237. 3 Claims. (Cl. 123—171.)



1. The combination with an internal combustion engine having multiple cylinders and a hood of an automobile open at its front, of an air cooling apparatus comprising a jacket covering the cylinders of the engine and divided into separate chambers for the respective cylinders and forming air circulating spaces about said cylinders, a longitudinally, rearwardly tapered air conduit superposed relative to the jacket and having independent air passages communicating with the respective chambers of the jacket at the location of the respective cylinders, a reticulated flared intake mouth on the conduit and arranged in the open end of the hood, and suction means for drawing off hot air from the jacket and operated by the engine.

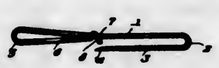
1,390,863. APPARATUS FOR MAKING ICE. WILLIAM E. ARMISTEAD, Lagrange, Ga. Filed Dec. 20, 1917. Serial No. 208,116. 7 Claims. (Cl. 62—159.)



1. Apparatus for the manufacture of artificial ice, comprising a series of freezing units, each composed of a

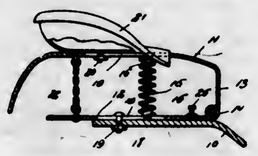
rectangular metal trough provided with a series of transversely disposed expansion chambers separating said trough into a series of freezing compartments, means for supplying ammonia under pressure to said expansion chambers and allowing it to expand therein, with means for causing the flow of the refrigerant through said expansion chambers *seriatim*, means for supplying raw water to the centers of the various freezing compartments, means for also supplying air under pressure to the centers of said compartments, and means for thawing the sides and bottoms of the completed ice cakes, substantially as described.

1,390,864. BODKIN. ANNA BAKER, Baltimore, Md., assignor of one-half to Edva Baker, Baltimore, Md. Filed Feb. 26, 1921. Serial No. 448,211. 1 Claim. (Cl. 223—38.)



As a new article of manufacture, a bodkin, formed in one piece of metal and consisting essentially of a straight body bar, a loop at one end of the body bar and having an outer arm the free end of which is pointed and is deflected slightly away from the body bar, a loop at the opposite end of the bar and having an outer arm inclined inwardly and provided at its inner end with a transverse loop straddling the body bar adjacent to the transverse center thereof, and a keeper for the pointed end of the first-named arm, carried by the transverse loop and spaced from the adjacent edge of the body bar.

1,390,865. SEAT. PAUL M. BANGLE, San Dimas, Calif. Filed Jan. 29, 1921. Serial No. 440,929. 1 Claim. (Cl. 155—51.)



The combination with a seat standard, of a bar provided with a threaded opening and having an elongated slot formed therein, a substantially U-shaped bar hingedly connected to one end of the first mentioned bar and having an elongated slot formed therein, a chain connected to said bars, bolts slidably mounted in said slots, lugs carried by said bolts, a coil spring surrounding said lugs and exerting a pressure between said bars, an adjusting screw engaging the threaded opening in the first mentioned bar, a bolt passing through the slot in the first mentioned bar and secured to said standard, a seat, and a bolt secured to said seat and engaging said slot in the last mentioned bar.

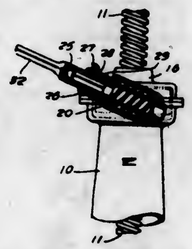
1,390,866. TOBACCO-BOX. GIOVANNI BARAC, Falls Creek, Pa. Filed July 3, 1919, Serial No. 308,498. Renewed Apr. 16, 1921. Serial No. 461,917. 3 Claims. (Cl. 206—38.)

1. In a sheet metal box having the opening on its front at the bottom thereof, a receptacle arranged at its bottom having interengaging means with the box, and having an open front disposed opposite the opening in the box, a lip at the upper front end of the receptacle extended outwardly of the opening and contacting with the outer face of the box, a closer plate hingedly con-



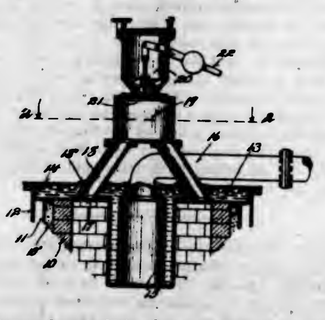
nected to the outer portion of the lip, and a spring tongue on the plate to engage with the lower edge of the box.

1,390,867. LIFTING-JACK. JACOB O. BARRETT, Asheville, N. C., assignor of one-half to William W. Bruce, Asheville, N. C. Filed June 22, 1920. Serial No. 390,859. 2 Claims. (Cl. 254—103.)



1. In a lifting jack, a base, an elevating screw mounted therein, a gear housing mounted on said base, a worm wheel mounted in said housing having screw threads engaging said elevating screw, a ball bearing interposed between said worm wheel and said base, a worm mounted in said housing for actuating said worm wheel, means for retaining said screw against rotation, manually operated or power means for alternatively rotating said worm and a spring clip mounted on said base for engaging either of said means for yieldingly locking the same in operative position.

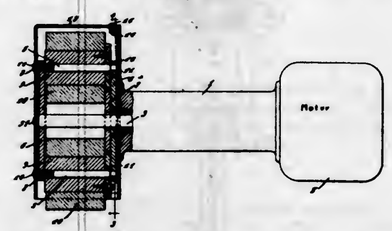
1,390,868. GAS-PRODUCER. ALVIN J. BASSETT, Milwaukee, Wis., assignor to Milwaukee Reliance Boiler Works, Milwaukee, Wis. Filed July 1, 1919. Serial No. 307,957. 1 Claim. (Cl. 48—86.)



In a gas producer of the character described, the combination of a combustion chamber provided with a series

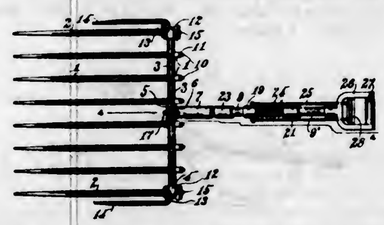
of fuel discharge openings in its top, tubes extending convergently upward from said fuel discharge openings, a cylindrical chamber having its bottom supported on and communicating with said tubes, a hopper mounted on said distributing chamber and having its diameter approximating the diameter of the distributing chamber, and having a reduced discharge mouth communicating with the top of the distributing chamber and a vertically movable valve member for closing said discharge mouth, said valve member being adapted to shed fuel into the distributing chamber whereby to facilitate passage of said fuel through the tubes.

1,390,869. SHOE-POLISHING DEVICE. JOHN BAUER, Detroit, Mich. Filed Sept. 2, 1919. Serial No. 321,042. 2 Claims. (Cl. 15—61.)



1. Shoe polishing apparatus including a handle, a motor driven shaft therein, parallel buffers at one end of the handle, means for transmitting rotary motion thereto from the shaft, and an angularly adjustable segmental housing extending from the handle and housing the buffers and power transmitting means, one of the buffers projecting through the periphery of the housing.

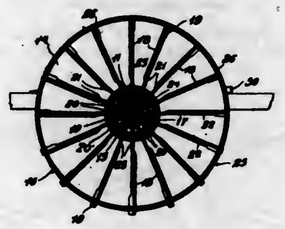
1,390,870. MANURE-LOADING FORK. HARRY BITTLE, West Alexandria, Ohio, assignor of one-half to Ira C. Albert, Lewisburg, Ohio. Filed June 28, 1920. Serial No. 392,325. 2 Claims. (Cl. 294—49.)



1. A manure fork comprising a rectangular open frame, a series of tines secured individually at two points to said frame, and end and side tines secured to the ends of said frame, said frame having supporting members united thereto from which extends a handle socket, a handle consisting of two parts one of which is supported in said socket, a socket member supporting the other part of said handle, said socket member being pivotally united to the first mentioned handle portion, and spring controlled means on the second mentioned handle portion for effecting a connection and disconnection thereof with the first named handle portion, and means for connecting a power connection with said fork.

1,390,871. WHEEL. WILLIAM Z. BLACK and DELBERT W. BUTZ, Kokomo, Ind. Filed July 29, 1919. Serial No. 314,028. 2 Claims. (Cl. 301—48.)

1. In a tractor wheel, the combination with the spindle of an axle, of a sleeve mounted thereon, a cam secured to the sleeve, disks surrounding the sleeve and contacting with the opposite faces of the cam, said wheel including side members which contact with the disks, a rim providing the periphery of the wheel secured to the side members thereof, and said rim having transverse openings therethrough, arms having their outer ends widened to provide cams which latter are received in



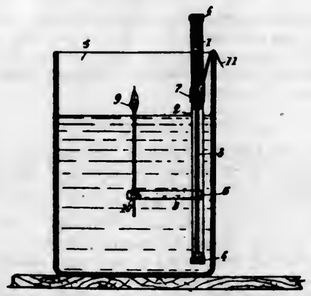
the referred to openings in the periphery of the wheel, and the inner ends of the arms contacting with the cam and disposed between the disks, a flexible element passing through all of the arms for holding the same in contacting engagement with the disk, anti-frictional guide means for each of the arms, and means for turning the sleeve on the axle spindle to arrange the cam at different relative positions with respect to the arms.

1,390,872. SEAM-RIPPING TOOL. MAYNARD J. BLAIR, Winchester, Mass. Filed Dec. 2, 1919. Serial No. 341,918. 1 Claim. (Cl. 30—9.)



A device of the character described comprising a sheet of resilient metal bent upon itself intermediate its ends and rebent to form a bead constituting a handle engageable by the fingers, said bead being elongated in cross section with one side formed convex for engagement by the fingers and the opposite side formed concave for engagement by the thumb, and the opposite edge of the sheet being hardened and sharpened to form a cutting edge.

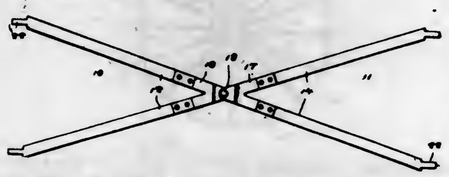
1,390,873. ADJUSTABLE WICK-CARRIER. MODESTE BOILEAU, Suancourt-par-Morey, France. Filed Oct. 26, 1920. Serial No. 419,642. 1 Claim. (Cl. 67—35.)



A wick carrier for coöperation with a vessel adapted to contain an inflammable fluid comprising a tube formed with a longitudinal slot, a threaded rod mounted for

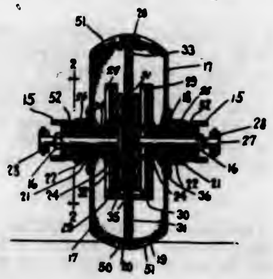
rotation within the tube and operable from beyond one end of the tube, an arm having threaded connection with the rod and extending laterally of the tube through the slot therein, means on said arm to support a wick, and means slidable on the tube to engage the edge of the vessel to support the tube within and in spaced relation to the vessel.

1,390,874. DRAFT-COUPLING. JOHN WYLY BRACKEN, Miami, Fla. Filed Oct. 12, 1920. Serial No. 416,422. 1 Claim. (Cl. 213—67.)



A coupling device for the purpose specified comprising a pair of hounds each formed as a V-shaped bar having converging arms terminating at their outer ends in reduced extensions, the vertex of one bar being bifurcated to define spaced knuckles arranged in a horizontal plane, the vertex of the other bar being reduced to form an extension disposed between said knuckles, offset brackets secured upon the ends of all of said bars and mounted upon the upper and lower sides thereof, the brackets on one set of bars overlapping those on the other, spacing sleeves between said bars and said brackets, and a pivot bolt passing through the brackets, through the spacing sleeves and through said knuckles and extensions.

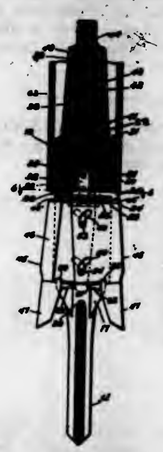
1,390,875. GROUND-ENGAGING DRIVE-WHEEL. CHARLES JOSEPH BRITT, Willington, S. C. Filed Feb. 13, 1920. Serial No. 358,345. 4 Claims. (Cl. 301—41.)



3. A ground-engaging drive wheel comprising an annular member having internal gear teeth, hub portions, and casing sections joined to the hub portions and having inwardly directed tread portions on which are flanges joined to the annular member.

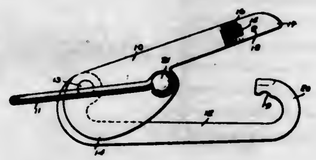
1,390,876. REAMER. JACOB S. BROWN, Los Angeles, Calif., assignor of one-half to Walter F. Eichenhofer, Los Angeles, Calif. Filed Nov. 4, 1919. Serial No. 335,739. 2 Claims. (Cl. 255—75.)

1. A drill designed to be passed through a well casing including a stock, having an integrally formed bit at the lower end thereof and having a transverse opening above the bit, reamers having upper rounded corners and having lapping flanges which are received in said opening, means between the flanges and the stock for permitting a longitudinal and lateral movement of the reamers through the opening, spring means for influencing the reamers to an outward and angular position with respect to the stock, interengaging means between the respective reamers when in such position, elements on the reamers contacting with the stock when the reamers are in such position, spring influenced laterally movable latching means for engaging said spring influenced means for locking the latter when the reamers are in such operative position, and said latching means and the rounded corners of the reamers being ar-



ranged for contact with the lower end of the casing when the stock is moved upwardly toward the casing whereby to release the latching means and to exert a downward pressure upon the rounded corners of the bit to move the latter against the influence of the spring means to bring the interengaging means therebetween out of such engagement and the contacting elements out of contact with the stock and to again seat the reamers in the opening in the stock.

1,390,877. CONNECTOR-LINK FOR CHAINS. WILLIAM ALFRED BROWN, Lincoln, Me. Filed Apr. 5, 1921. Serial No. 458,647. 2 Claims. (Cl. 24—69.)



1. A link of the class described consisting of two elements pivotally connected adjacent to one end of the link, one of said elements having flat sides broadened adjacent to the pivot, and the other element being disposed between said sides, the sides of the first-mentioned element at that end of the link remote from the pivot terminating in laterally movable jaws, the adjacent end of the other element being accommodated between said jaws and there being co-engaging fastening means on said jaws and on said adjacent end of the other element.

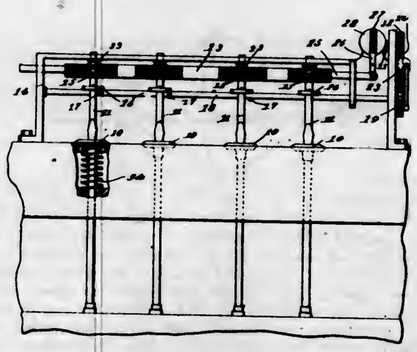
1,390,878. WINDOW-VENTILATOR. CATHERINE M. BUHRMAN, Graceham, Md., assignor of one-fourth to Harry W. Stull, one-fourth to Reuby M. Stull, and one-fourth to Eleanor R. Stull, Rocky Ridge, Md. Filed Nov. 23, 1920. Serial No. 426,022. 1 Claim. (Cl. 98—31.)

A window ventilator comprising a screen adapted to be positioned in a window frame, a rectangular frame of a width and height greater than the screen hinged to said screen, flexible means connecting the ends of the frame and screen together, a transparent panel carried by said frame, detachable and adjustable connections between the



frame and the screen, a draining element secured to the lower portion of the frame and constructed of flexible waterproof material and having its ends extended and detachably connected to the flexible means.

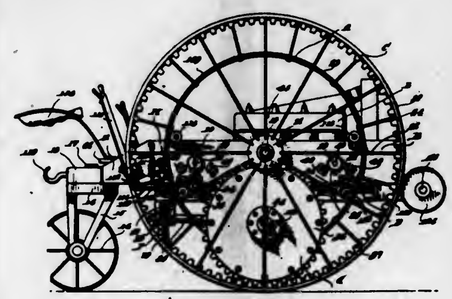
1,390,879. VALVE-GRINDER. CHARLES A. BUKOVE, Ute Park, N. Mex. Filed Dec. 13, 1919. Serial No. 344,651. 1 Claim. (Cl. 51—29.)



In a valve grinder, a spindle adapted for engagement with the valve to be ground, a disk carried by said spindle, a cam shaft, a cam thereon for engaging the disk and raising the spindle, a gear wheel on said spindle, a rack bar engaging the gear wheel for rotating the latter, and means for rotating the cam shaft and reciprocating the rack bar in timed relation, said spindle having a square portion and the disk having a square aperture, permitting the elevation of the spindle, at times, independently of the disk and without discontinuing the drive through the gear wheel.

1,390,880. TRACTOR. HARRY W. BURTON, Enid, Okla. Filed Jan. 26, 1920. Serial No. 354,127. 12 Claims. (Cl. 180—17.)

1. In a tractor, a main frame, a supplemental frame connected to the main frame for swinging movement, ground wheels carried by the main frame, internal ring gears carried by the ground wheels, a guide track carried by the ground wheels and arranged in concentric relation to the ring gears, guide rollers carried by the supplemental frame, and arranged to engage the guide tracks, a prime mover carried by the supplemental frame, a drive axle carried by the supplemental frame, means operatively connecting the drive axle with the prime mover, pinions rotatably mounted on the axle and arranged to mesh with the ring gears, sliding clutches mounted on the axle and



arranged to move into and out of engagement with the pinions, means for independently operating the clutches, and brake bands arranged to engage said guide tracks.

1,390,881. BROOM-HOLDER. SOLOMON CANTOR, New York, N. Y. Filed Nov. 11, 1920. Serial No. 423,425. 1 Claim. (Cl. 15—19.)



The combination with a broom holder, comprising a hollow casing open at its lower end, of a gate at one edge of the casing, inwardly projecting horizontal tracks at the lower portion of the casing, a double-ended broom, a metal band around the intermediate portion of the broom having a pair of webs at each side thereof adapted to receive said tracks between them when said broom is moved horizontally relative to the broom holder, and said gate operating to hold the broom against movement.

1,390,882. BROOM. SOLOMON CANTOR, New York, N. Y. Filed Nov. 11, 1920. Serial No. 423,426. 2 Claims. (Cl. 15—19.)

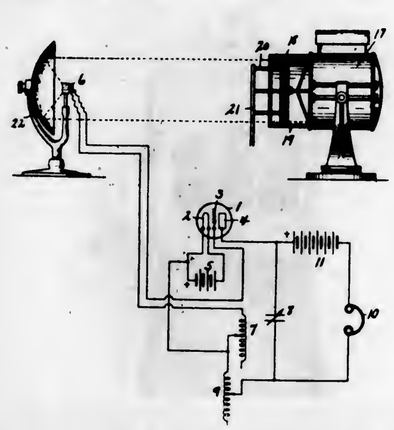
1. A broom, comprising a pair of brushes, each brush having the larger ends of the straw or corn compressed and secured together and the smaller ends of the straw

or corn flared apart, said brushes located with their larger straw ends together, a clamp comprising a pair of



metal plates secured to the adjacent ends of both brushes, and webs on the plates, said webs at the ends of the plates having interlocking engagement.

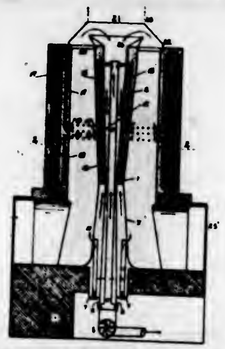
1,390,883. RADIANT-ENERGY DETECTING AND TRANSLATING DEVICE. THEODORE W. CASE, Scipio, N. Y. Filed Apr. 5, 1918. Serial No. 226,905. 2 Claims. (Cl. 250—8.)



1. An apparatus for signaling by means of light rays comprising a source of light rays, means for interrupting the passage of rays from said source, means for receiving said rays and for giving an audible signal in response thereto comprising a vacuum vessel, containing a filament, a grid and a plate, means for heating the filament, a circuit connecting the filament and grid and including a light-reactive resistance and an inductance, and a circuit connecting the filament and plate, said circuit containing a source of potential, a translating device and an inductance.

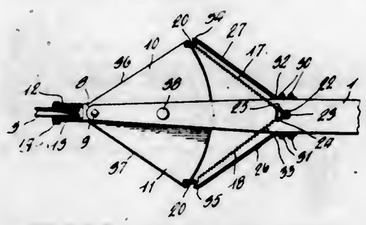
1,390,884. VERTICAL KILN. ETIENNE CHAUDIÈRE, Paris, France. Filed Aug. 28, 1919. Serial No. 320,411. 4 Claims. (Cl. 222—3.)

1. The combination with a vertical kiln or furnace, in which the material to be treated is mixed with the fuel, of a central core extending the whole length of the kiln and completely surrounded by the material and the fuel, and a duct in this core disposed to take fresh air from



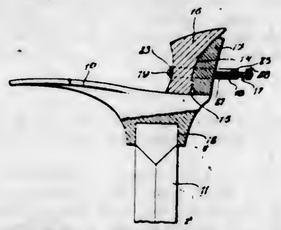
the exterior and to distribute it at different levels in the inner part of the ring formed around the core by the material to be treated mixed with the fuel.

1,390,885. SAFETY-TROLLEY. OWEN LEE CHESNUTT, Atlanta, Ga. Filed May 9, 1921. Serial No. 467,952. 4 Claims. (Cl. 191—60.2.)



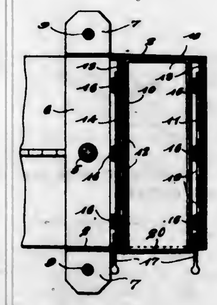
1. A safety trolley comprising a trolley pole having a bifurcated end, a sector pivoted between the forks of the bifurcated end of said pole and having its wings extending on opposite sides of the pole, resilient means connected at one end to the pole and at the other end to the outer portions of the wings in said sector and acting to normally retain the same in an initial intermediate position, and a trolley wheel carried by said sector, substantially as described.

1,390,886. SHOE-HEEL HOLDER. WILLIAM THOMAS CREED, Irving, Tex. Filed Feb. 27, 1920. Serial No. 361,791. 1 Claim. (Cl. 12—125.)



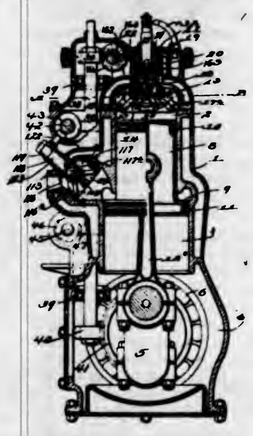
In combination with a shoe last, a vertically disposed concaved member extending from one end of said shoe last and provided with a curved recess, a substantially U-shaped member engaging said extension and having a threaded opening therein, a connecting bar provided with laterally extending spaced projections and having an opening formed therein, a tongue extending laterally from one end of said U-shaped member and adapted to engage the opening in said connecting bar, an enlarged tongue extending laterally from the opposite end of said U-shaped member and adapted to engage the spaced projections of said bar, a screw engaging the threaded opening in said U-shaped member and a knurled head secured to the outer end of said screw.

1,390,887. RADIATOR-HEATER. JOHN W. DAVIS and JOHN W. OSBORNE, Winchester, Ill., assignors of four-twelfths to said Davis, three-twelfths to said Osborne, and five-twelfths to Chester L. Williams, Chapin, Ill. Filed May 24, 1920. Serial No. 383,851. 6 Claims. (Cl. 126—350.)



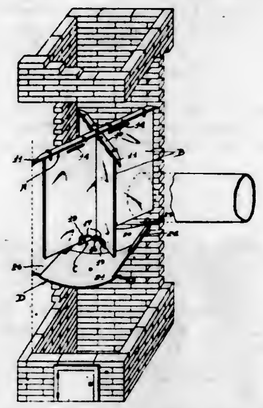
6. A heating attachment for a radiator comprising a housing having front and rear heads provided with openings, a receptacle for a heating medium positioned in the housing, and separate means for controlling passage of air through the openings in the heads.

1,390,888. INTERNAL-COMBUSTION ENGINE. CHARLES DE LUKACSEVICS, Newark, N. J., assignor to Edmund Lofler, New York, N. Y. Filed June 15, 1915. Serial No. 34,243. 1 Claim. (Cl. 123—81.)



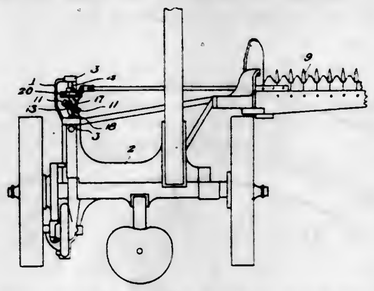
In an internal combustion engine, the combination of a rotatable conical cylinder controlling valve, an actuating member connected thereto having a recess and diametrically opposite circumferential bearing surfaces, a revoluble cam having a rib operative in said recess to reciprocate said member alternately in reverse directions, and springs acting on said bearing surfaces of said member to retain the valve on its seat.

1,390,889. DRAFT-PRODUCING DEVICE. ANTHONY PETRA DOELL, Minneapolis, Minn. Filed June 7, 1920. Serial No. 387,259. 6 Claims. (Cl. 98—30.)



2. In a device of the class described, a hanger comprising crossed members, the ends thereof being designed to engage the walls of a flue, heat radiating plates adapted to be suspended from said hanger, opposite the pipe-opening in the flue, and arranged to divide a section of the flue into segmental compartments and a pan designed to be hung in the flue beneath said plates, said pan being adapted to direct heated gases into all of said compartments and formed to provide an opening into the clean-out chamber of the flue for the escape of cinders or the like.

1,390,890. ATTACHMENT FOR MOWING-MACHINES. WARREN DYER, Mangum, Okla. Filed Aug. 30, 1920. Serial No. 406,823. 1 Claim. (Cl. 74—14.)

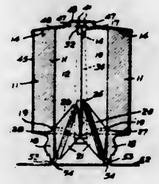


A revoluble shaft which is journaled in bearings and which has a reduced angle portion between the bearings, and inclined portions between the straight and angle portions, a two-part bearing removably secured to the angle portion of the shaft, connecting means for the sectional bearing, compressible plates between the sections, a member including a head having a stub shaft which is journaled below the bearing, upstanding arms on the head, trunnions on the bearings journaled in openings in the arms, a longitudinal finger on the head disposed centrally between the arms thereof, and an upstanding lug on the end of the finger.

1,390,891. TOY RAILWAY. CHARLES FRASER EDWARDS, Ottawa, Ontario, Canada. Filed Feb. 17, 1921. Serial No. 445,661. 13 Claims. (Cl. 104—244.)

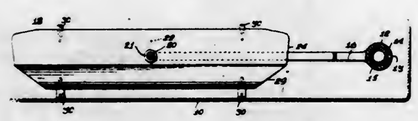
11. In a toy railway, a car having a plurality of pairs of spaced wheels mounted to slant inwardly from their

point of contact with a supporting surface, and a base providing courses for said pairs of wheels with marginal



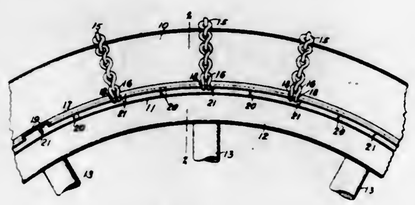
exterior elevations confining said pairs of wheels to said courses.

1,390,892. VALVE-CONTROL FLOAT. CHARLES EIMKE, Brooklyn, N. Y. Filed Nov. 2, 1920. Serial No. 421,359. 3 Claims. (Cl. 137—104.)



1. As a new article of manufacture, a float for controlling the supply valves of ink reservoirs constructed from Balsa wood, said float provided with spaced pins projecting from its upper and lower surfaces.

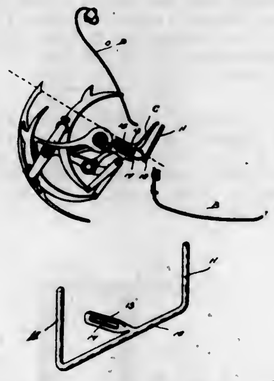
1,390,893. ANTISKIDDING DEVICE. THADDIOUS V. ELLIOTT, New York, N. Y. Filed Sept. 17, 1918, Serial No. 254,460. Renewed Dec. 17, 1920. Serial No. 431,502. 2 Claims. (Cl. 152—2.)



1. In a wheel, antiskidding members extending independent one of the other and in spaced relation across the wheel tire, each antiskidding member being provided at the ends with hooks, and a wheel rim having longitudinal channel rings at the sides with which the hooks engage, the said channel rings having spaced notches to permit the engagement of the said hooks with the channel rings and the latter having spaced lugs in the paths of the said hooks to limit the movement of the hooks in the channel rings.

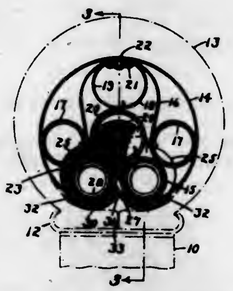
1,390,894. GRAIN-BINDER ATTACHMENT. EDUARD S. ERICKSON, De Lamere, N. D. Filed Aug. 28, 1920. Serial No. 406,536. 4 Claims. (Cl. 56—443.)

4. As a new article of manufacture, a grain binder attachment comprising a U-shaped element, an attaching lug projecting from said element and having an elongated slot, means for attaching the lug to the trip arm of the binder whereby the attachment may be moved toward and away from said arm and the parallel limbs of said element



being arranged in parallelism with said arm and at a plane at the rear thereof.

1,390,895. RESILIENT TIRE. BRUNO G. ERLER, Oak Lane, Pa., assignor of two-fifths to Taylor J. Davidson, Camden, N. J., and three-twentieths to Julius Richter, Philadelphia, Pa. Filed Nov. 15, 1920. Serial No. 424,241. 4 Claims. (Cl. 152—8.)

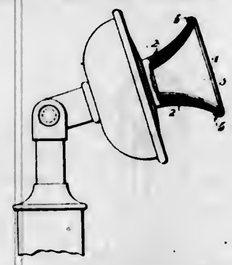


4. A resilient insert for vehicle tires comprising a supporting structure including an annular band, inwardly and radially projecting arched flat springs having eyed ends, inwardly and radially projecting inverted U-shaped flat springs and inwardly and radially projecting S-shaped flat springs carried by sail annular band, the inner ends of the arched, U-shaped and S-shaped springs having a rolling contact, apertured spacing elements having a cut-out portion on their inner edges disposed between the inner ends of said springs, contractile springs threaded continuously through the eyed ends of the arched springs and the apertures of the spacing elements, and an inner annular centrally beaded ring for maintaining the inner ends of the arched springs in spaced relation.

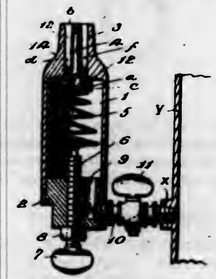
1,390,896. TELEPHONE-MOUTHPIECE DISINFECTANT. JAMES FERGUSON and WILLIAM H. BENNETT, Vancouver, British Columbia, Canada. Filed Feb. 25, 1921. Serial No. 447,748. 1 Claim. (Cl. 179—185.)

A disinfecting means for a telephone mouthpiece, comprising the combination with it of a thin lining of plaster-like absorbent material conforming to the inner surface of the mouthpiece, which lining is impregnated with an enduring antiseptic, and a ring adapted to fit the outer

edge of the mouthpiece and flanged in the plane of its outer edge to engage and retain the lining, said ring having backwardly projecting portions adapted to be bent around the outer edge and retain a hold of the mouthpiece.

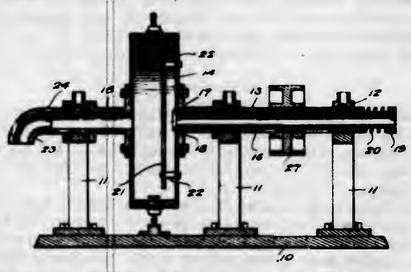


1,390,897. FUEL-SAVER FOR ENGINES. ERNEST M. FLORY, Harrisonburg, Va. Filed Dec. 4, 1920. Serial No. 428,307. 3 Claims. (Cl. 251—34.)



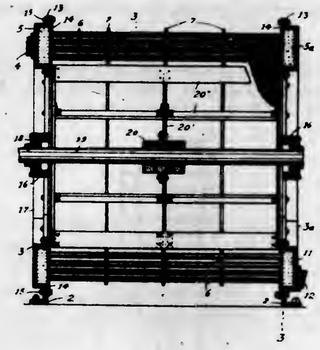
1. A device of the character specified comprising a casing having a cylindrical opening at one end, a substantially cylindrical valve body, having a cylindrical bore and also having a plurality of flat depressions of different depths and lengths about its periphery, for closing said opening, an adjusting screw threaded in the opposite end of the casing and in alinement with said valve body, a helical spring in said casing confined between the inner end of the adjusting screw and the inner end of the valve body and adapted to normally hold the latter in closed position, and a passage through the casing at the end opposite the valve body adapted to furnish communication with the intake manifold of an internal combustion engine.

1,390,898. SEPARATOR. LOVIAS F. FRASER, Shamrock, Okla. Filed May 18, 1920. Serial No. 382,307. 1 Claim. (Cl. 233—20.)



A separator comprising a rotatable drum, a sleeve extending from one end of the drum, a supply pipe extending from said sleeve and communicating with the interior of the drum and forming a bearing for said drum, a flared inner end for said pipe, a seat for said end, yieldable means for holding the flared end of the pipe upon the seat, a discharge pipe leading from the drum and automatically operated valve controlled outlet ports arranged around the periphery of the drum.

1,390,899. CIRCULAR RADIATOR. JOHN FROELICH, St. Paul, Minn., assignor to Leslie S. Hackney, St. Paul, Minn. Filed July 16, 1918. Serial No. 245,183. 5 Claims. (Cl. 257—126.)



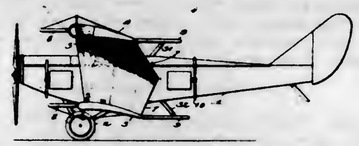
1. A water cooling radiator comprising heads, one having an intake pipe and the other a discharge pipe, a series of water circulating tubes connecting chambers provided in said heads and baffle walls provided in said heads and separating said chambers into independent compartments and directing the flow of water back and forth through said tubes between said heads, and a fan encircled by said tubes for establishing currents of air outwardly between said tubes.

1,390,900. TIRE-TREAD. HARRY M. FRY, Johnstown, Pa. Filed Apr. 6, 1920. Serial No. 371,614. 4 Claims. (Cl. 152—17.)



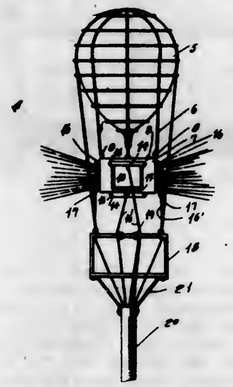
1. In a device of the character described, the combination with the rim of a wheel and a pneumatic tire secured thereon, of a pair of annular flange members secured at the side thereof and provided with annular channels; a protecting tread received over said tire and provided around its inner edges with annular outwardly curved sections adapted to be received into said annular channels; and a pair of pneumatic securing tires of a diameter when deflated to be received into said channels over said annular outwardly curved sections of the protecting tread, whereby when the securing tires are inflated the inner edges of the protecting tread are clamped between the securing tires and the annular channels, to hold the protecting tread securely on the tire.

1,390,901. AEROPLANE. MARK GOLBIN, Brooklyn, N. Y. Filed Sept. 18, 1920. Serial No. 411,033. 3 Claims. (Cl. 244—5.)



1. In a device of the class described, the combination of a fuel-containing wing structure, a wing structure adapted to be inflated, and an inter-wing structure connecting the two and comprising means for utilizing fuel from the first said structure for inflating the second said structure.

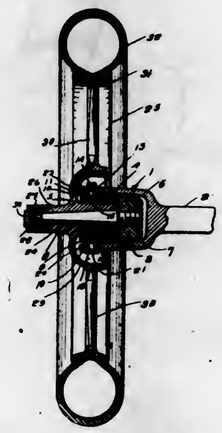
1,390,902. BALLOON-SEARCHLIGHT. COLUMBUS GROOMS, East Point, Ga. Filed July 6, 1918. Serial No. 243,568. 2 Claims. (Cl. 116—18.)



1. In combination with an aerial body, a luminous signaling device loosely suspended therefrom having a plurality of bull's eyes for projection of light rays therethrough, shutters for the bull's eyes, pendant members to individually operate the shutters, and one of the members adapted to be held taut to steady the device as another cable is operated to move a shutter.

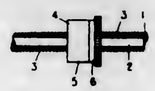
1,390,903. FRONT-WHEEL STEERING MECHANISM FOR MOTOR-VEHICLES. WILLIAM HAYLOR, Heppner, Oreg. Filed June 7, 1919. Serial No. 302,424. 1 Claim. (Cl. 280—96.3.)

A front wheel steering mechanism for a motor vehicle comprising a forked axle end, said fork having vertical openings extending through the upper and lower arms thereof, one of said openings being threaded, a socket formed around the last mentioned opening on the inner face of the upper arm of the fork, a cup-shaped member positioned in said fork and having openings in its upper and lower portions, the opening in the lower portion registering with the opening of the lower arm of the fork and being interiorly threaded, a pivot member extended through the opening in the lower arm of the fork and threaded in the threaded opening of said cup-shaped member, the opening in the upper portion of said cup-shaped member being tapered downwardly, an enlargement formed on the upper face of said cup-shaped member around the tapered opening and adapted for engagement in the socket of the upper arm of the fork, an upper pivot screw threaded in the upper arm of said fork and having a tapered end extended into the tapered opening of said cup-shaped member, a wheel hub having one end extended into said cup-shaped member, said hub being provided with an annular arcuate flange inclosing the end of the cup-shaped member and the forked axle end, a spindle extended



through said hub and having an inner end threaded in the thickened central portion of said cup-shaped member, and bearing means between the enlargement on said cup-shaped member and the main wall of the socket of the upper arm of the fork.

1,390,904. SLIDING MECHANISM. GEORGE HAZELTON, Portadown, Ireland. Filed Dec. 15, 1920. Serial No. 431,017. 7 Claims. (Cl. 74—40.)

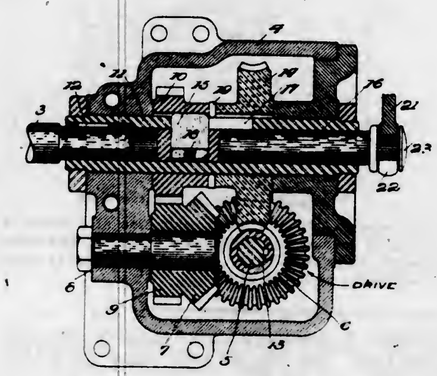


1. Sliding mechanism comprising a male and a female member, wherein the male member is formed with an axial groove leaving an axial rib, transverse threads or serrations being formed on the surface of said rib, and the female member comprises two elements rotatably mounted together whereof one element has an internal rib slidably engaged in the groove of said male member, and the other element is provided with an internal rib having threads or serrations adapted, on rotation of said element, to enter into operative engagement with those of the said male member so as to lock the two members together.

1,390,905. MULTIPLYING-GEARING. ERNEST C. HEAD, Van Wert, Ohio, assignor to Coburn Machine Tool Company, Franklin, Pa., a Corporation of Pennsylvania. Filed Nov. 10, 1917. Serial No. 201,243. 5 Claims. (Cl. 74—59.)

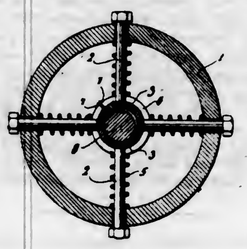
5. In a train of feed gearing comprising a plurality of gears operatively related to produce a plurality of feed ratios, means to multiply said feed ratios comprising alternative gear trains one of which includes a worm and worm-wheel, a gear of each of said trains being freely rotatable on a common shaft, a sliding key for

connecting either of said last-named gears with said shaft, a rack parallel to said first-named shaft and con-



nected to said sliding key, a pinion for reciprocating said rack, and an indicating hand-wheel for rotating said pinion.

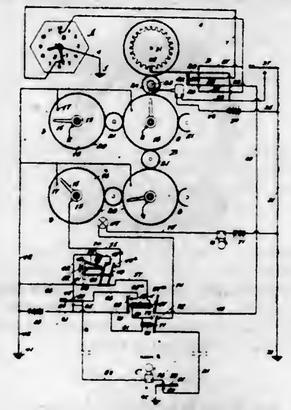
1,390,906. CENTERING DEVICE. SAMUEL D. HENDERSHOT, Independence, Calif. Filed Aug. 3, 1920. Serial No. 401,022. 2 Claims. (Cl. 157—9.)



1. An expanding device of the class described comprising a hub member formed of sections, a supporting member of ring-shape, bolts slidably mounted therein and having their inner ends connected with the hub sections, springs on the bolts and arranged between the supporting member and the hub sections for holding the hub member in contracted condition and means for expanding the sections.

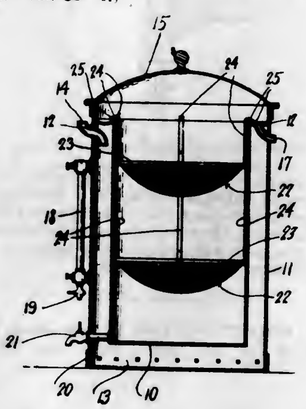
1,390,907. AUTOMATIC CALL SYSTEM FOR HOTELS. ALBERT H. HEYROTH, Duluth, Minn. Filed Jan. 19, 1921. Serial No. 438,514. 9 Claims. (Cl. 161—2.)

1. A call system of the class described comprising a clock, circuit-closing and opening means associated with the clock, a call-board having a plurality of call units each provided with a movable contact-carrying wheel, an adjustable contact, a twenty-four hour dial for enabling the adjustable contact to be adjusted for any desired time, a motor operatively connected with all the wheels for intermittently moving the same, an electric switch for connecting the circuit make-and-break means of the clock with the motor, and means operating in



conjunction with the contact-carrying wheels and driven by the motor to control the said switch.

1,390,908. COOKING VESSEL. FRED D. JOBE, Roundup, Mont. Filed Mar. 9, 1920. Serial No. 364,496. 2 Claims. (Cl. 53—1.)



1. A cooking vessel of the class described comprising spaced inner and outer receptacles defining a water chamber by the intervening space, said receptacles joined together at the upper ends, a filling tube projecting into said chamber, a detachable cover associated with the outer receptacle, a steam escape tube projecting through said outer receptacle, a gage tube provided on said receptacle and communicating with both ends of the water chamber, an outlet having one end communicating with the inner receptacle and extending through the outer receptacle, and a valve provided on said outlet.

1,390,909. WHEEL CONSTRUCTION. OLOF H. JOHNSON, Seattle, Wash. Filed Feb. 28, 1921. Serial No. 448,511. 3 Claims. (Cl. 152—8.)

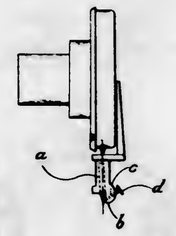
1. The combination of coiled spring means, a casing in which the spring means is inclosed, said casing having clencher flanges, a longitudinal central rim member made up of a series of sections hinged together and

connected to intermediate points of the spring means and having longitudinal channels in their sides, side rim members adapted to engage the clencher flanges and having tongues on their inner edges disposed in the said



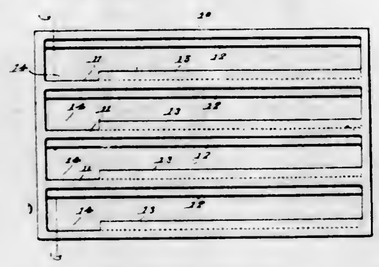
channels of the central sections, bolts extending through and connecting the central sections and the side members, and a flexible layer interposed between the central sections of the rim and the spring means.

1,390,910. TALKING-MACHINE. AUGUSTUS THEODORE JORDAN, London, England. Filed June 23, 1920. Serial No. 391,079. 8 Claims. (Cl. 274—37.)



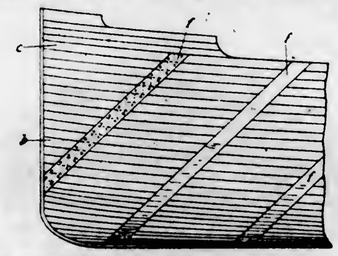
1. In talking machines, a needle-holder having a socket, a needle seated in said socket, a downward extension proceeding from the mouth of said needle holder, said extension having a threaded hole, a needle-holding screw seated in said hole and engaging the needle at a point in close proximity to the needle-point.

1,390,911. STEAMING-CRATE. JOSEPH JUDGE, Pittston, Pa. Filed Oct. 24, 1919. Serial No. 332,976. 1 Claim. (Cl. 28—7.)



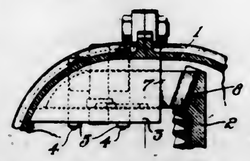
A device of the class described comprising a rectangular frame, spaced horizontal partitions formed integrally therewith and extending longitudinally therein, a retaining strip formed along the upper rear edge of each partition and a second retaining strip formed along the lower front edge of each partition and terminating short of one end of said frame.

1,390,912. WOODEN SHIP CONSTRUCTION. JOSEPH T. L. LAVAGETTO, Portland, Oreg. Filed Jan. 8, 1919. Serial No. 270,208. 1 Claim. (Cl. 114—84.)



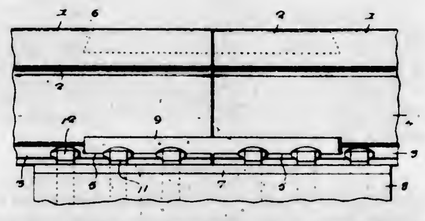
In a wooden-ship hull, the combination of a frame, a covering of planks, and metal bars extending diagonally across the outer faces of the sides of the planks, to cover the end seams of the planking.

1,390,913. AUTOMOBILE-LOCK. HARRY N. LEE, Creston, Iowa. Filed Apr. 28, 1920. Serial No. 377,286. 2 Claims. (Cl. 70—90.)



1. A differential gear lock comprising a solid body having a transversely and longitudinally curved upper surface adapting the body to be secured in the differential case in close proximity to the main or ring gear, said body being formed with a transverse bolt passage adapted to be disposed opposite the ring gear and with a bore extending therethrough at right angles to said passage in communication with the latter, a bolt slidable in said passage provided on the under side thereof with a semi-circular recess communicating with said bore, and on the outer end thereof with inclined teeth engageable with the bevel teeth of the ring gear, a lock barrel mounted in said bore and a swinging arm carried by the barrel and engaged in the recess in said bolt.

1,390,914. RAIL-JOINT. CHARLES H. LITTLE, Chicago, Ill. Filed May 28, 1921. Serial No. 473,291. 2 Claims. (Cl. 238—216.)



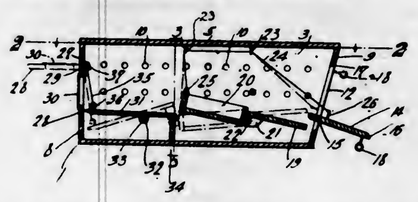
1. In a railway construction, the combination with rails and supporting ties therefor, of a plate disposed over certain of the ties, said plate having a pair of spaced longitudinal lugs which are wedge shaped in cross section, the rails having their base flanges, to the opposite sides of their webs formed with wedge slots to receive the lugs, and means passing through the plate, entering the ties, contacting the edges of the base flanges and overlying and contacting with the top of said base flanges,

1,390,915. ARTIFICIAL LIMB AND THE LIKE. JULIUS ALWIN LOTH, Utrecht, Netherlands. Filed May 7, 1918. Serial No. 233,066. 4 Claims. (Cl. 16—11.)



3. In a joint of the character described for artificial limbs, the combination of a joint part to be attached to the upper part of the artificial limb, a second joint part to be attached to the lower part of the artificial limb, the two joint parts being guided against each other by guiding grooves, one of said grooves being provided in each of the said joint parts, the groove of the first named joint part corresponding in shape to that of the rolling face of the natural bone and the groove of the second named joint part being inclined against the axis of the lower part of the artificial limb in such a manner that during the bending of the joint the said lower part is raised against the said upper part of the artificial limb, and means for holding the two parts together.

1,390,916. POULTRY-NEST. WILLIAM MARCUS LOWTHROP, Summertown, Tenn. Filed Nov. 3, 1919. Serial No. 335,279. 2 Claims. (Cl. 119—50.)



1. In a device of the class described, a casing; a downwardly swinging door mounted in one end of the casing; an upwardly swinging door mounted in the other end of the casing; a nest-carrying platform fulcrumed intermediate its ends in the casing; flexible elements extended between the inner end of the nest-carrying platform and the first specified door; a second platform mounted to swing in the casing; and a flexible connection between the second platform and the upwardly swinging door.

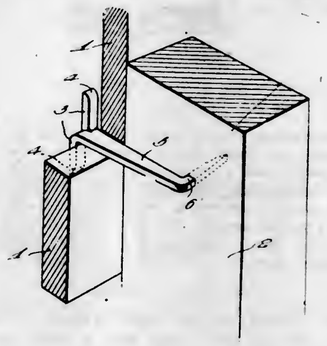
1,390,917. WRENCH. FREDERICK C. LYON, Sr., Horseheads, N. Y. Filed May 10, 1918. Serial No. 233,712. 1 Claim. (Cl. 81—72.)

A wrench having gripping jaws, an expanding member for the jaws, said jaws and member having interengaging screw threads to maintain the jaws in proper relation within an object in addition to facilitating spreading of the jaws, one end of the jaws coöperating to form a wrench head, and gripping teeth on the exterior of the jaws terminating at the head so as to form a rest for a wrench in engagement with the head, the screw having a wrench head projecting beyond the first wrench head so that the end of the first wrench head may serve as a rest for a wrench in engagement therewith when the jaws approach gripping relation with an object, and a single



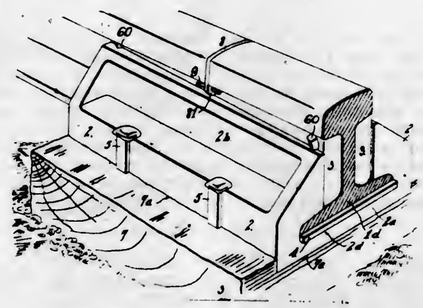
wrench coöperating with said wrench heads having an opening to receive the first wrench head and an opening to receive the second wrench head smaller than the first mentioned opening.

1,390,918. MOLDBOARD-ANCHOR. DANIEL J. McFARLAND, San Francisco, Calif. Filed Sept. 30, 1920. Serial No. 413,714. 3 Claims. (Cl. 85—10.)



1. A device for securing mold boards to studs comprising a shank for reception between adjacent mold boards, one end of said shank having oppositely extending arms to bear against the inner sides of the mold boards, the other end of said shank having a laterally extending prong to be driven into the stud after said arms are engaged with the mold boards, said prong being disposed at a slightly obtuse angle to said shank, whereby to draw said arms tightly against the mold boards when driving said prong.

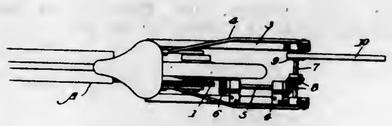
1,390,919. RAIL-CHAIR. CHARLES MALITCH, Hamilton, Ohio. Filed June 14, 1921. Serial No. 477,596. 5 Claims. (Cl. 238—208.)



1. A rail joint comprising in combination, a base adapted for being spiked onto a tie, the said base having

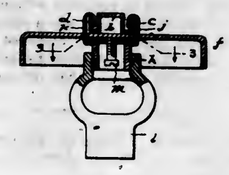
a seat, a pair of opposing rail ends whose base portions are received in the chair seat, the chair having parallelly extending webs held in planes at an angle to their opposing rail web face, wooden wedge keys interposed between the chair and rail web faces, the opposite inner ends of each chair web face having a V shaped vertically extending groove and key pins square in cross section adapted for being driven into the said V shaped groove and to penetrate the wooden wedges and thereby lock them from displacement.

1,390,920. POWER TRANSMISSION. CHARLES K. NAGY, Gainesville, N. Y. Filed Jan. 8, 1921. Serial No. 435,941. 1 Claim. (Cl. 74—106.)



In combination with a motorcycle, a ring gear, clips for securing the same to the spokes of the rear wheel of the motorcycle, a supporting frame, means for detachably connecting the same with the motorcycle frame, a shaft journaled in said frame, a gear thereon meshing with the gear on the motorcycle wheel, a second shaft in the frame geared to the first mentioned shaft and a pulley connected with the second shaft.

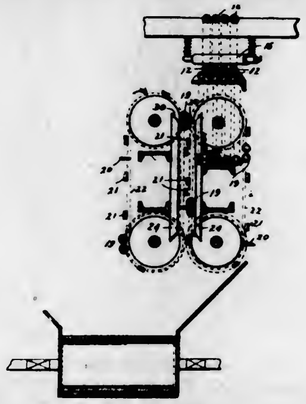
1,390,921. LOOM-PLATE AND HANGER. ADOLPH OLEVIN, Detroit, Mich. Filed Jan. 28, 1920, Serial No. 354,645. Renewed Aug. 3, 1921. Serial No. 489,570. 4 Claims. (Cl. 247—20.)



1. In a device of the class described, a supporting bar in the form of an inverted U, with upwardly extending side flanges forming parallel troughs on either side, a loom plate, means for supporting a fixture positioned below said loom plate, provided with two parallel upwardly extending arms projecting through said loom plate on opposite sides of said bar, said arms being bent over at their extremities so as to overhang the side flanges of said troughs, means for tightening said loom plate against said bar.

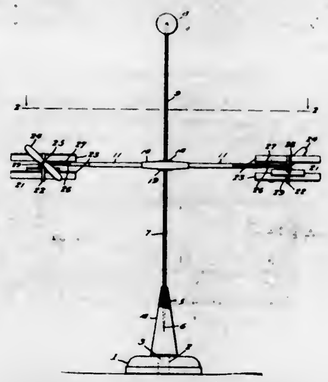
1,390,922. FIBROUS-PLANT-DECORTICATING MACHINE. FRANK O'NEILL, Jr., Philadelphia, Pa. Filed Nov. 22, 1917. Serial No. 203,374. 6 Claims. (Cl. 13—18.)

5. In a machine of the class described, an endless series of traveling rolls arranged in pairs, a frame supporting a pair of said rolls, one of the rolls of a pair being loosely mounted in said frame so that it may



bodily change its position, and a guide controlling said loosely mounted roll.

1,390,923. TOY. EMIDIO PEPE, Derby, Conn. Filed Feb. 14, 1921. Serial No. 444,740. 1 Claim. (Cl. 46—40.)

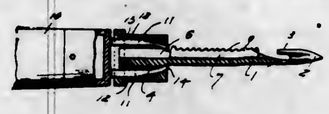


In a toy, a vertically supported spirally grooved stem, a runner thereon having a pocket on the under face thereof, a clutch element in the pocket comprising a body portion provided with a square opening through which the stem passes and having upstruck spurs designed when the weight of the runner is brought thereagainst to engage the inner wall of the pocket and by virtue of such engagement to cause one or more of the walls provided by this squared opening to be received in the groove of the stem, and to cause the runner to revolve on the stem when permitted to gravitate downwardly thereon.

1,390,924. NEEDLE. WILLIAM PHILLIPS, Auburn, Ill. Filed Mar. 24, 1920. Serial No. 368,390. 1 Claim. (Cl. 223—37.)

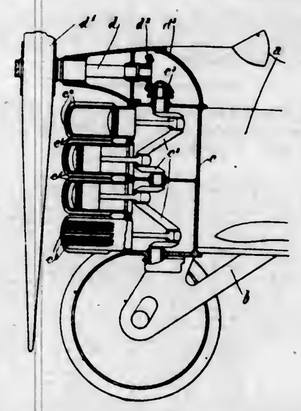
A device of the class described including a handle, a needle having a penetrating end member, means to detachably secure the needle to the handle, said needle having a slot extending inwardly from the inner end, an eye closing member slidable in the slot and removable

therefrom at the inner end of the needle, said eye-closing member being held against displacement in one direction by engagement with the said end member, said



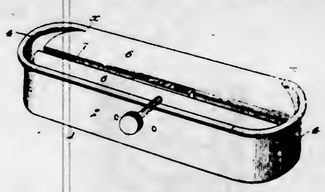
means crossing the slot, and said eye-closing member being engageable with said means to prevent accidental displacement from the slot at the inner end of the needle.

1,390,925. COMBUSTION-MOTOR. HENRY CHARLES ALEXANDRE POTEZ, Aubervilliers, France. Filed Dec. 13, 1919. Serial No. 344,528. 5 Claims. (Cl. 244—31.)



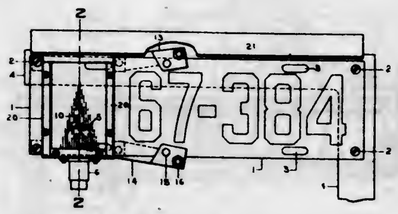
1. In an automotive vehicle, the combination of a body, an internal combustion engine mounted in the forward portion of said body, said engine including superposed cylinders having cylinder heads disposed toward the front of the vehicle, a vertically arranged crank case at the rear of said cylinders having a crank shaft mounted vertically therein, and a propeller adjacent said cylinder heads whereby the forward motion of the body and the rotation of said propeller cause a stream of air to impinge directly and initially upon said cylinder heads.

1,390,926. BALL-MARKER. WILLIAM F. REACH, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a Corporation of New Jersey. Filed June 17, 1921. Serial No. 478,362. 8 Claims. (Cl. 101—7.)



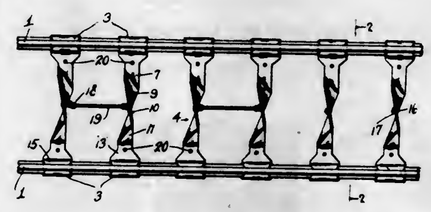
1. A ball marker consisting of a member having a guide-way for the ball, the sides of which guide-way are convergent inwardly toward the center line of the member, said sides having a space between them for receiving marking means projecting slightly above the bottom of the guide-way to contact with the ball, said marking means being held between the inner adjacent portions of said sides.

1,390,927. COMBINATION TAIL AND AUTOMOBILE-LICENSE LIGHT. CATHERINE RING, Detroit, Mich. Filed Feb. 28, 1921. Serial No. 448,572. 3 Claims. (Cl. 40—131.)



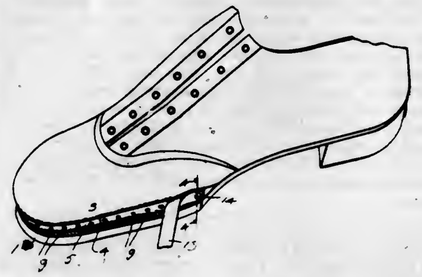
1. In combination with a license plate, a lamp carrier provided with attaching ears, said ears being perforated, screws passing from two of said ears through existing holes of the license plate, and links pivoted at one end to the other two ears and provided at their outer ends with clamps embracing the said plate.

1,390,928. TIE. JOHN WILLIAM RYAN, Springfield, Ill. Filed Feb. 21, 1921. Serial No. 446,621. 4 Claims. (Cl. 238—30.)



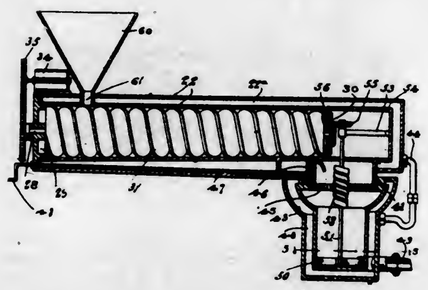
1. A combined tie and clamp for railway rails comprising two similarly constructed metallic members each having an outer flat end formed with a rail engaging lip, said members disposed one on the other to arrange the lips of one of the members opposite the lips of the other member in rail receiving relation, said members, intermediate of the flat ends thereof being twisted, and means connecting the twisted portions of the members.

1,390,929. VENTILATED SHOE. DOMINIC SAUDINO, New York, N. Y. Filed Feb. 4, 1921. Serial No. 442,448. 2 Claims. (Cl. 36—3.)



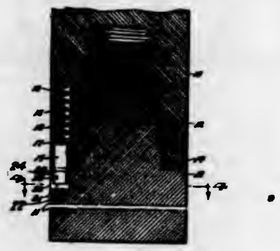
2. A ventilated shoe having a row of openings in the lower portion of its upper, a band for covering the openings in the upper, and fastening means for detachably connecting the band to the shoe and comprising complemental parts applied to the shoe and band.

1,390,930. MACHINE FOR REPAIRING THE LININGS OF FURNACES. THOMAS T. SCOTT, Youngstown, Ohio. Filed Oct. 9, 1919. Serial No. 329,586. 10 Claims. (Cl. 91—44.)



1. A machine of the character described including a wheel mounted truck, means for projecting a coating material against the walls of a furnace, means supporting said projecting means from said truck and permitting horizontal projection of the projecting means, and means to adjust the projecting means vertically.

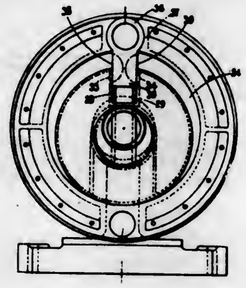
1,390,931. STEM AND BIT LOCKING DEVICE. JOHN P. SHAMBERGER, Baltimore, Md. Filed Oct. 21, 1919. Serial No. 332,136. 1 Claim. (Cl. 279—100.)



A lock for the bit and stem of a well drilling tool, each of which is provided with a cylindrical recess, the bit being formed with a longitudinal slot communicating with the recess therein and the stem being formed with a T-shaped slot communicating with the recess therein, the bottom wall of the transverse portion of said T-shaped slot being formed at opposite sides of the shank portion with notches, both of said slots being adapted to be brought into registration when the stem and bit are assembled, a longitudinally disposed spring-pressed plunger slidable and rotatable within the recess in the stem, and a pin projecting laterally from said plunger and movable along the registering slots, the pin being engageable within either of said notches whereby to hold the plunger in retracted position out of engagement with the recess in the bit.

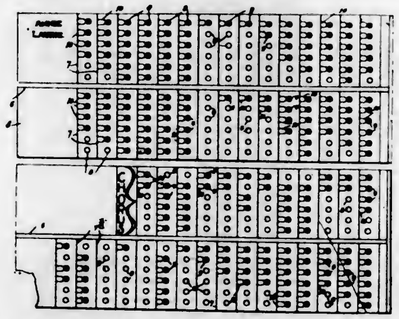
1,390,932. ROTARY PUMP. ALBERT EDWARD SHIER, London, England. Filed Sept. 14, 1920. Serial No. 410,251. 7 Claims. (Cl. 103—44.)

1. A rotary pump comprising a cylindrical pump chamber, a cylindrical piston of smaller diameter mounted therein, one of said parts provided with oppositely arranged valve faces having ports opening therethrough and forming a slideway and one of said parts being provided with a guideway, a cut off valve slidable between said valve faces and having an oscillatory support in the other



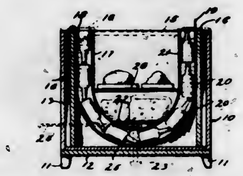
of the said parts, a tail rod on said cut-off valve working in said guideway, and means for moving the piston within the pump chamber.

1,390,933. MUSICAL TABLATURE FOR FIFES. NELSON L. SIMPSON, Corona, N. Y. Filed Oct. 31, 1919. Serial No. 334,796. 1 Claim. (Cl. 283—47.)



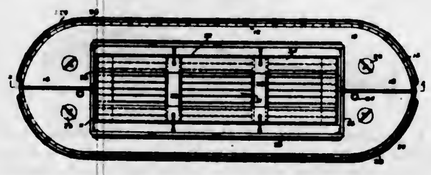
A chart having characters thereon in rows with the characters of each row representing the holes or ports in a musical instrument and means associated with the characters to designate those to be covered, consisting of finger representations disposed opposite said characters and in rows, the arrangement thus indicating in rows all holes to be covered at each blowing of the instrument and for successive blowings to render a complete musical selection without the study of notes.

1,390,934. BOTTLE-REFRIGERATOR. RAYMOND JOHN SOUTULLO, Mobile, Ala., assignor of one-half to R. W. Shaw, Mobile, Ala. Filed May 1, 1920. Serial No. 378,324. 10 Claims. (Cl. 62—34.)



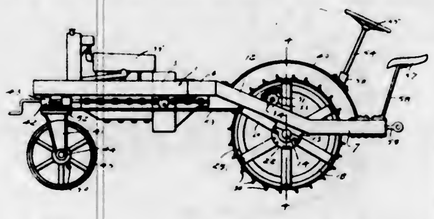
3. A refrigerator for bottled beverages or the like comprising a receptacle provided with refrigerating means, a series of U-shaped tubes within said receptacle and adapted to receive separate series of bottles therein end to end in counterbalancing relation.

1,390,935. LIFE BOAT OR RAFT. WILLIAM STEWART, Newark, N. J. Filed Jan. 13, 1921. Serial No. 436,972. 7 Claims. (Cl. 9—11.)



1. In a reversible life boat or raft, a peripheral buoyant hull defining a central well extending therethrough, a plurality of bulkheads arranged in said hull to define independent water tight compartments, horizontal stringer plates extending through the side compartments for strengthening the structure and separating the same into upper and lower water tight chambers and stringer plate sections arranged in the end compartments for strengthening the structure.

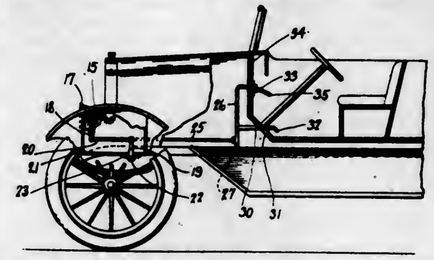
1,390,936. TRACTOR. FRED MILES STILGENBAUER, Shepherd, Mich. Filed May 7, 1918. Serial No. 233,044. 1 Claim. (Cl. 180—27.)



In a tractor, a main frame comprising side members having their relatively forward end portions extending parallel, their intermediate portions inclined outwardly and rearwardly thence downwardly and rearwardly in parallel relation, and their rear portions horizontal and parallel and in the plane of the intermediate downwardly and rearwardly parallel portions of the respective members, cross members connecting the ends of the side members, intermediate members paralleling the rear portions of the side members, and having their front end portions outwardly and forwardly inclined and secured to the rear ends of the forward parallel end portions of the side members and their rear ends secured to the rear cross bar, a steering wheel disposed in line with the space formed between the forward parallel end portions of the side members, and tractor wheels located in line with the spaces formed between the intermediate members and the rear and intermediate portions of the side members and mounted on the downwardly and rearwardly inclined portions of both members.

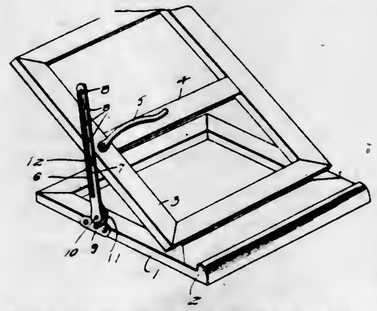
1,390,937. AUTO-LIGHT CONTROL. WILLIAM H. STOCKTON, Ashtabula, Ohio. Filed Mar. 26, 1920. Serial No. 368,946. 1 Claim. (Cl. 240—61.)

The combination with a vehicle, of a rock shaft disposed transversely of the vehicle in front of the radiator and mounted in suitable bearings upon the front mud guards, a pair of lamps secured to said shaft, a crank arm secured to one end of said shaft, a rod pivotally connected to said arm, a second crank arm pivotally connected to the rod, a short shaft journaled in suitable bearings beneath the vehicle frame and secured to the second crank arm, a third crank arm secured to the opposite end of said short shaft, a rod pivotally connected to the third crank arm, a yoke pivotally connected to the last mentioned rod, a pair of arms formed integrally with said yoke and extending through the vehicle dash



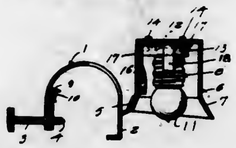
board, a handle formed upon the end of one of said arms and a foot pedal formed upon the end of the other arm for actuating said lamps aforesaid.

1,390,938. BOOK-HOLDER. STEWART T. THOMPSON, Lynn, Mass. Filed June 10, 1921. Serial No. 476,507. 2 Claims. (Cl. 45—80.)



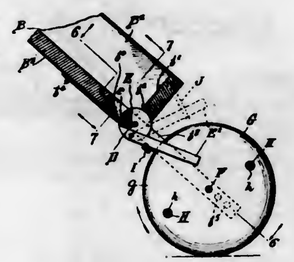
2. A book holder comprising a base, a rack having pivotal connection therewith, a bracket attached to the base, a brace pivoted to the bracket and having a longitudinal slot and notches along one edge of the slot, an element projecting from the rack and passing through the slot of the brace and adapted to coöperate with the notches to hold the rack in adjusted position, and a spring attached to the bracket and adapted to exert a pressure on the brace to cause the notches thereof to automatically engage the element projecting from the rack.

1,390,939. MOTOR-METER LIGHT. LLOYD A. THURN, Fremont, Ohio. Filed Apr. 16, 1920. Serial No. 374,354. 1 Claim. (Cl. 240—7.)



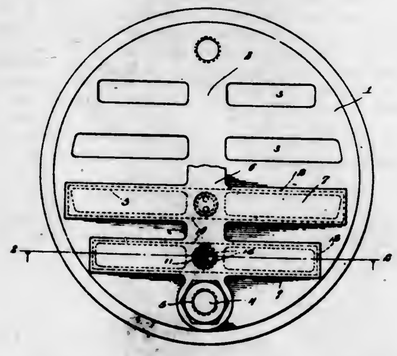
A lighting fixture of the class described, having a conducting hood, a block of insulating material, a conductor extending over the top and an end thereof and inwardly to provide a contact, the conductor extending downwardly at the other end of the block to provide a terminal, a lamp, a socket therefor to support the same in engagement with the contact having a suspending member straddling the block, means insulating the conductor from the hood and the suspending member, and means to support the block from the upper wall of the hood.

1,390,940. SEEDER. EDWARD BOOTH TIMMONS, Charlotte, N. C. Filed Feb. 21, 1921. Serial No. 446,616. 2 Claims. (Cl. 275—2.)



2. A seeder attachment for use with agricultural implements, comprising a cross piece adapted to be secured to the implement, a box attached to said cross piece and downwardly inclined when attached to the implement, the said box being open at its upper end and closed at its lower end, said lower end being provided with a vertically disposed slot, a feed wheel normally closing said slot, said wheel being provided with a seed pocket in its periphery, a striker arm carried by said feed wheel, a yoke projecting from the lower end of said box, and an operating wheel journaled in said yoke and adapted to roll along the ground, with lugs carried by said operating wheel adapted to engage said striker arm, means for locking said feed wheel in the closed position, and means for limiting the downward travel of said striker arm, substantially as described.

1,390,941. PLATE-VALVE. CHARLES WAINWRIGHT, Erie, Pa. Filed June 18, 1920. Serial No. 389,916. 2 Claims. (Cl. 251—119.)



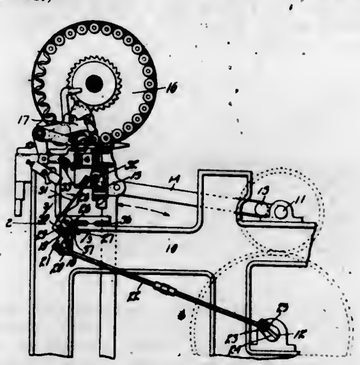
1. In a plate valve construction, the combination of a seat member having a diametrical portion and alined ports at opposite sides thereof, a buffer having a body portion and arms reaching laterally from opposite sides thereof and convex at their inner sides and also having a protuberance opposed to the diametrical portion of the seat and in which are transverse channels and further having sockets in communication with said channels, means connecting the buffer with the said member, pins carried by the said member and arranged in a pair in each socket, a coiled spring disposed in each socket, and flexible plates arranged in the channels of the buffer and having apertures receiving said pins, whereby said plates are movable bodily and their end portions are free.

1,390,942. TOWING DEVICE. MALCOLM TIEPKE WATERMAN, Cedar Rapids, Iowa. Filed July 8, 1920. Serial No. 394,624. 2 Claims. (Cl. 208—27.)



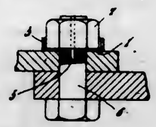
1. A towing device of the character described, comprising a pair of bars located at an angle to each other, a strap connecting said bars at one end and having an eye therein, cushioned blocks secured to the inner faces of the bars at their free ends, and bolts projecting through the blocks and bars and securing the parts together.

1,390,943. ATTACHMENT FOR LOOMS. ERNEST E. WEBB, Baltimore, Md., assignor, by direct and mesne assignments, of one-third to George D. Fryfogle and one-third to Eugene H. Timanus, Baltimore, Md. Filed Dec. 26, 1919. Serial No. 347,301. 10 Claims. (Cl. 139—85.)



1. In a filling replenishing loom, a lay, a shuttle box thereon, a reciprocating thread-catcher adapted to engage the filling between the shuttle-box and the discharged filling-carrier at the time of filling change and means permanently connected to the thread-catcher and to a working shaft of the machine to move the thread-catcher reciprocatingly toward and from the lay, substantially as set forth.

1,390,944. LOCKING DEVICE FOR THE NUTS OF BOLTS AND THE LIKE. PURCELL THOMAS WEBB, Timaru, New Zealand. Filed Dec. 23, 1919. Serial No. 346,884. 1 Claim. (Cl. 151—3.)



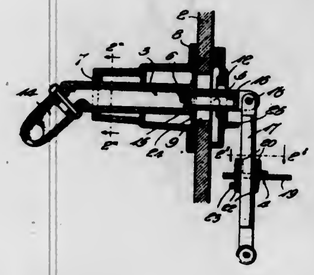
In a device of the kind described, a threaded bolt or stud, a nut threaded upon said bolt, a washer below said bolt, a cylindrical wall rising upward from the outer periphery of said washer and encircling said nut, a saw-cut in said cylindrical wall and the portion of said wall above said saw-cut flattened against a side of said nut to act as a spring to check said nut and means whereby said washer is prevented from rotating on said bolt, substantially as described.

1,390,945. AUTOMATIC CHEMICAL FIRE-EXTINGUISHING APPARATUS. GUSTAVE WENNELMANN, Galesburg, Ill. Filed June 26, 1919. Serial No. 306,860 1 Claim. (Cl. 169—26.)



An automatic fire extinguishing apparatus, comprising a support, a container connected to the support for swinging to a discharge position, fusible means for holding the container upright relative to the support, a cover for the container, and a connection between the cover and support to exert a pulling action on the cover after the container has moved from the upright position toward the discharge position, whereby the inertia of the container in movement forces the cover from the container.

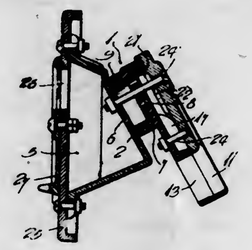
1,390,946. FUEL-SAVER AND SMOKE-CONSUMER. LEONIDAS DOTY WEST, Denver, Colo. Filed Aug. 4, 1919. Serial No. 315,188. 21 Claims. (Cl. 110—75.)



1. In a fuel saver and smoke consumer, an air heater adapted to be mounted in a stove or furnace in such manner as to be subjected to heat, said heater having air inlet means, an air discharge neck freely slidable through said heater and projectable therefrom, said neck having an air inlet communicating with the interior of said heater and having a hot air outlet, and means connected with said neck and adapted to extend to the exterior of the stove or furnace for projecting and retracting said neck.

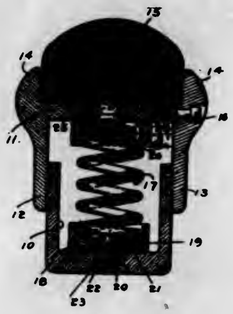
1,390,947. AIR-HEATER FOR STOVES AND FURNACES. LEONIDAS D. WEST, Denver, Colo. Filed Jan. 7, 1920. Serial No. 350,054. 3 Claims. (Cl. 110—75.)

1. A device of the class described comprising a plate having a shank and two arms diverging therefrom in the same plane therewith, the edge of said plate having a continuous flange provided with air outlet openings at the ends of said arms; said shank and the contiguous arm portions having longitudinal ribs terminating short of their outer ends and parallel with the adjacent portions of said flange; transverse ribs joining the intermediate parts of said longitudinal ribs with the portions of said flange at the inner ends of said arms, and angular transverse ribs extending inwardly from the portions of said



flange at the outer ends of said arms; said angular ribs extending along said arms between one end of said longitudinal ribs and the parts of said flange at the inner edges of said arms, and terminating in spaced relation with said first named transverse ribs; a cover plate secured against the edges of said flange and ribs, and an air inlet through aforesaid shank for supplying air to the several channels between the ribs.

1,390,948. SPRING-TIRE. NORMAN C. WOODWARD, Hornell, N. Y. Filed Oct. 2, 1920. Serial No. 414,170. 2 Claims. (Cl. 152—37.)



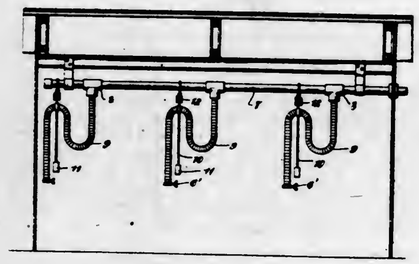
2. A spring tire comprising inner and outer channeled rim members slidably associated, a plurality of springs interposed between said rim members, means for securing the outer ends of the springs to the outer rim member, and means for securing the inner ends of the springs to the inner rim members comprising members disposed upon the outer periphery of the inner rim member at spaced intervals and each formed with a socket and threaded bore leading centrally thereinto, the innermost convolution of each spring being engaged within a socket with the terminal of the spring extending axially thereof and passing through said bore, and a screw passing through the inner rim member and threaded into said bore and having a central bore for the passage of the terminal of the spring, said extremity of the spring being threaded and the bore of said screw being threaded and engaged upon the threaded end of the spring.

1,390,949. CAM-SHAFT AND PROCESS OF MAKING THE SAME. ISIDOR YASSENOFF, Columbus, Ohio, assignor to The Universal Parts Company, Columbus, Ohio, a Corporation of Ohio. Filed Mar. 21, 1921. Serial No. 453,928. 6 Claims. (Cl. 29—148.)



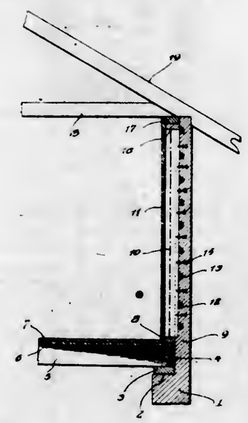
1. A cam shaft comprising a non-tempered body portion having applied thereto temperable cams.

1,390,950. EXHAUST-GAS CONVEYER. BRUCE W. AVERY, Whiting, Ind. Filed Mar. 15, 1920. Serial No. 365,888. 1 Claim. (Cl. 104—52.)



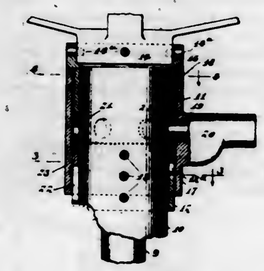
Conveyer means for the exhaust gases of automobiles in garages comprising a main pipe leading to the exterior of the building, a number of flexible pipes connected with the main pipe, means for connecting the inner ends of said flexible pipes to the outlet end of the muffler and weighted means for normally holding the flexible pipes in raised position when not in use.

1,390,951. BUILDING CONSTRUCTION. DAVID BAUGHMAN, Pierce, Fla. Filed Feb. 7, 1920. Serial No. 356,890. 1 Claim. (Cl. 72—1.)



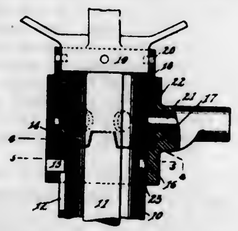
In a poured concrete building construction, a concrete base, a wooden sill of a less width than the base arranged on the base in a line with the inner edge thereof, a vertically arranged board resting on and in a line with the outer edge of the sill, and floor joists resting on the sill and contacting the board, a plate resting on the joists and having its outer edge in a line with the outer face of the board, vertically disposed spaced studs resting on and secured to the plate and having their inner edges disposed inwardly from the inner edge of the plate and their outer edges disposed outwardly over the outer edge of the plate, a plate having its edges flush with the inner and outer faces of the studs resting on and secured to said studs, horizontally arranged equi-distantly spaced wire members on the outer faces of the studs, means securing the wires to the respective studs, crossed nails driven in the outer face of the studs between the wire members, the sill board and plate providing inner mold members for the plastic wall built outward therefrom on the base, and the remaining inner mold members designed to be received between the spaced studs and have their outer surfaces in a line with the referred to inner permanent mold, whereby the outer portions of the studs are embedded in the concrete wall.

1,390,952. STEERING-WHEEL LOCK. RUSSELL T. BINDER, Orange, N. J., assignor to Russell Sales Co., Essex county, N. J., a Corporation of New Jersey. Filed Aug. 11, 1919. Serial No. 316,830. 11 Claims. (Cl. 70—129.)



3. In a steering wheel lock, a sleeve, a second sleeve mounted on the first sleeve, a third sleeve mounted on the first sleeve below the second sleeve, the second sleeve being provided with teeth, a steering wheel hub secured to the second sleeve, the third sleeve being secured to the first sleeve, a fourth sleeve disposed around the first-mentioned sleeves and having teeth for engaging the first-mentioned teeth, a pin and slot connection between the third and the fourth sleeves, and means free from the teeth for locking the fourth sleeve to the second sleeve and with the teeth in mesh.

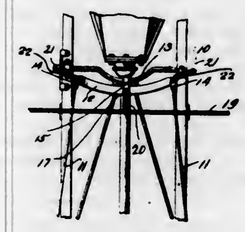
1,390,953. STEERING-WHEEL LOCK. RUSSELL T. BINDER, Newark, N. J. Filed June 21, 1920. Serial No. 390,459. 3 Claims. (Cl. 70—129.)



1. In a steering wheel lock, a sleeve normally secured against rotation relatively to a vehicle and provided with an opening, a second sleeve disposed around the first sleeve and spaced therefrom, the second sleeve having

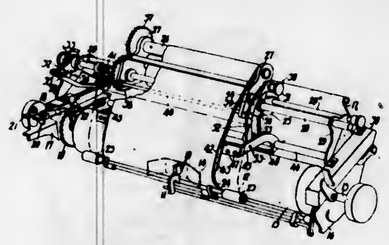
an inner shoulder with teeth, a third sleeve normally secured to a steering wheel and disposed between the first and second sleeves, the third sleeve having teeth for engaging the first teeth, and being provided with an opening, and a bolt carried by the second sleeve for disposal in the opening in the third sleeve when the teeth mesh and which may be disposed in the opening in the first sleeve when the teeth are out of mesh.

1,390,954. AUTOMOBILE CLUTCH-STABILIZER AND CONTROL-SILENCER. JOHN W. HARBAUGH, Corydon, Ind.; Cora Harbaugh administratrix of said John W. Harbaugh, deceased. Filed Feb. 24, 1920. Serial No. 360,631. 1 Claim. (Cl. 188—205.)



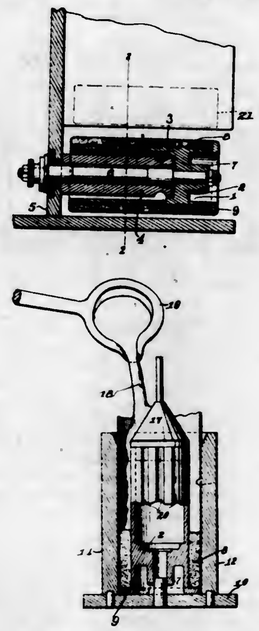
The combination with the cranked brake shaft of an automobile and the bifurcated brake rod clevises, of a longitudinally curved and flat bar disposed in parallel relation to the brake shaft, a loop secured centrally to the bar and loosely engaged with the crank of the said shaft, a spring secured to the loop and a portion of the automobile whereby to exert a rearward pull on the bar to maintain the brake shaft against loose play and to produce a slight cant to the bar whereby to induce a wedging action between the ends thereof and the brake rod clevises, and springs connected to the brake rods and to the automobile at the sides thereof.

1,390,955. TYPEWRITING-MACHINE. WALTER J. HAUSMAN, St. Louis, Mo., assignor to Underwood Typewriter Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 10, 1919. Serial No. 329,784. 10 Claims. (Cl. 197—132.)



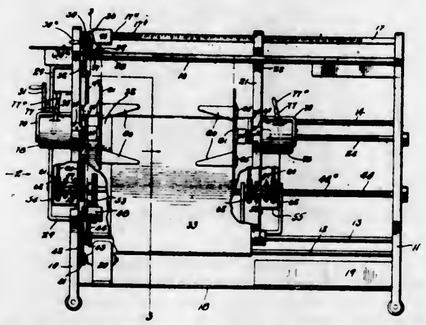
1. In a typewriting machine, the combination with a printing type and a platen, of a tally strip device, a shield adapted to be interposed between the tally strip and a carbon sheet, a line-space device for the platen, a connection from the line-space device to drive the tally strip, and a connection from the shield adapted to make the line-space connection ineffective when the shield is effective.

1,390,956. MEASURING-ROLLER. GREENE CARLTON HOSCH, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation. Filed June 28, 1919. Serial No. 307,345. 2 Claims. (Cl. 33—129.)



1. In a cloth measuring machine, a measuring roller consisting of a metallic core with a molded shell of composition on the cylindrical face thereof, said shell having a rough outer face, said core having a flange at one end only operating as a stop to limit the movement of the composition shell when being placed on the core of the roller, and covering the end of the shell to prevent the edge of the cloth engaging the same when being passed into the machine and along the surface of said roller.

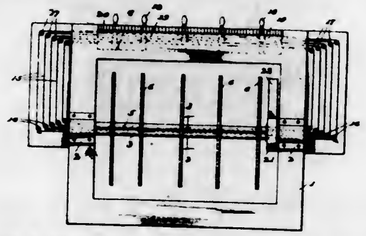
1,390,957. CLOTH WINDING AND MEASURING MACHINE. WALTER E. HOSCH, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Missouri. Filed Jan. 15, 1915, Serial No. 2,345. Renewed Feb. 12, 1921. Serial No. 444,539. 21 Claims. (Cl. 242—61.)



17. In a winding machine of the class described, the combination with a pair of reels, of means for driving

said reels, a differential gearing associated with said driving means, and means associated with said driving means having one position for driving said reels in one direction, and another position for driving said reels in the other direction.

1,390,958. ADJUSTABLE SAW. GEORGE J. HULBERT, Seattle, Wash. Filed Sept. 24, 1920. Serial No. 412,435. 4 Claims. (Cl. 143—37.)



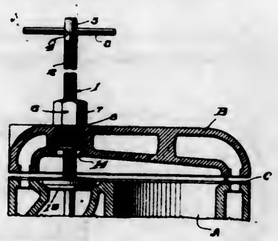
1. In an edging machine, the combination of a table, a slotted arbor rotatably mounted thereon, having a longitudinal bore formed therein, a plurality of saws slidably mounted on the arbor, and having lugs formed thereon, and extending into the slot in the arbor, a series of rings in the arbor having an annular groove therein, and a projecting lug adapted to fit in the slot in the arbor and engage the lug on said saw, disks mounted in the rings, and means for moving the disks to space the saws a predetermined distance apart.

1,390,959. SAFETY-CHECK. PAUL C. LONGMESSER, Philadelphia, Pa., assignor to William Mann Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 12, 1921. Serial No. 460,746. 2 Claims. (Cl. 283—9.)



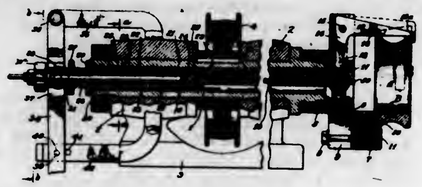
1. A check having both background and printed matter in safety ink of the same character.

1,390,960. CYLINDER-HEAD REMOVER. FRANK E. MILLER, Durand, Mich. Filed Sept. 3, 1918. Serial No. 252,436. 8 Claims. (Cl. 29—84.)



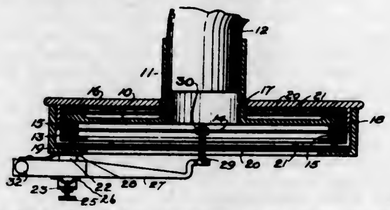
7. A tool for removing cylinder heads from cylinders comprising in combination, a threaded shank provided with a head at one end thereof, and a nut in threaded engagement on said shank, said nut provided with external screw threads and a wrench receiving formation at its end portion nearest the head of said shank.

1,390,961. CHUCK. ROBERT F. RUNGE and HENRY W. JACKSON, Philadelphia, Pa., assignors to The Hess-Bright Manufacturing Company, a Corporation of Delaware. Filed July 27, 1917. Serial No. 183,029. 12 Claims. (Cl. 279—106.)



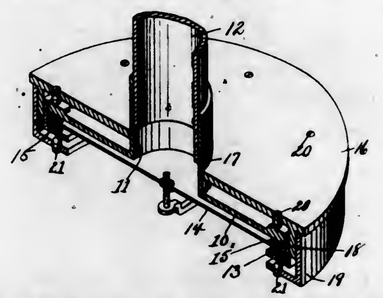
1. The combination of means for supporting the work, a movable member adapted to engage the work and hold it on the supporting means, releasable actuating means operable to move said member in a direction to release the work, and two springs arranged relatively to said actuating means to be placed under tension in succession when said actuating means is operated to release the work; whereby when said actuating means is released, the two springs in expanding will act on the movable member in succession and engage it with the work, first with a relatively light spring pressure, and then with greater spring pressure.

1,390,962. PHONOGRAPH-REPRODUCER. DAVID H. WILSON, Philadelphia, Pa. Filed June 1, 1920. Serial No. 385,800. 2 Claims. (Cl. 274—35.)



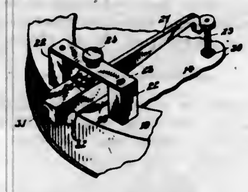
1. In a phonograph reproducer, a sound box, a casing surrounding the sound box, and a series of oppositely pointed cones having their bases fixed substantially in the same plane and their apices engaging the outside of the sound box and the inside of the casing respectively.

1,390,963. PHONOGRAPH-REPRODUCER. DAVID H. WILSON, Philadelphia, Pa. Filed July 8, 1920. Serial No. 394,730. 4 Claims. (Cl. 274—35.)



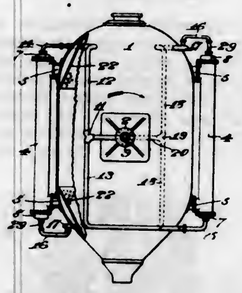
1. In a phonograph reproducer, a sound box, a casing surrounding the back and front peripheral portions of the sound box, and spaced projections carried by and extending inwardly from the casing, said projections engaging the sound box at spaced intervals adjacent its periphery.

1,390,964. STYLUS-BAR MOUNTING FOR REPRODUCERS. DAVID H. WILSON, Philadelphia, Pa. Original application filed June 1, 1920, Serial No. 385,800. Divided and this application filed Feb. 7, 1921. Serial No. 443,232. 3 Claims. (Cl. 274—35.)



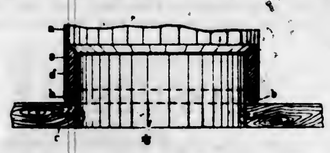
1. In a phonograph reproducer, a casing, a pair of posts extending outwardly from said casing, a bridge piece extending across the ends of said posts, a needle lever passing between said posts and beneath the bridge piece, a spring fulcrum for said lever bearing against said bridge piece and a leaf spring bearing on said lever and casing.

1,390,965. ROTARY BOILER. KARL HELLNER, Falun, Sweden. Filed June 3, 1919. Serial No. 301,552. 4 Claims. (Cl. 257—75.)



1. A rotary boiler, characterised thereby, that outside the boiler there are arranged heating elements, provided with inner pipes for the passage of steam, said elements rotating with the boiler and permitting the boiling fluid to pass freely along the heated surfaces during the rotation, in order by this rotation to obtain a favorable fluid circulation through the heating elements along the heated surfaces, thereby effecting a uniform and effective heating of the goods.

1,390,966. AIR-FILTER. WILHELM FRIEDRICH LUDWIG BETH, Lübeck, Germany. Filed Mar. 9, 1921. Serial No. 451,039. 3 Claims. (Cl. 183—73.)



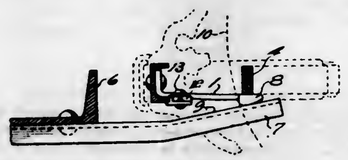
1. A filtering device comprising a support provided with an aperture, a flange surrounding said aperture, a filtering element having an inturned flange telescopically engaging the first named flange and an annular weight carried within said filtering element by said elastic flange adapted to seat said elastic flange against said first named flange and said support.

1,390,967. ANNULAR VALVE CONSTRUCTION. CHARLES DE LUKACSEVICS and EDMUND LOFFLER, New York, N. Y. Original application filed Apr. 30, 1920, Serial No. 377,986. Divided and this application filed Apr. 30, 1920. Serial No. 377,987. 3 Claims. (Cl. 123—177.)



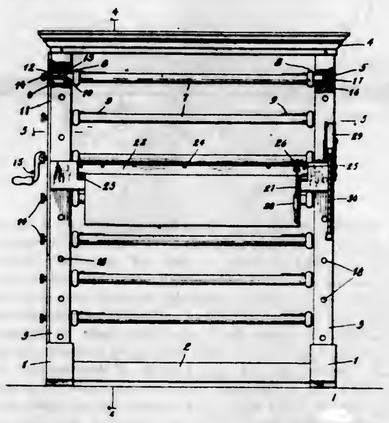
2. A valve for a multiple cylinder engine, comprising an annular body portion having adjacent annular inlet and exhaust chambers and lateral ports affording communication severally between said chambers and the engine cylinders, a hub portion and ribs connecting said portions, adapted to create a current of air when the valve is rotated, for cooling purposes.

1,390,968. BRAKE-BEAM. CHARLES F. HUNTOON, Chicago, Ill. Filed Jan. 24, 1921. Serial No. 439,491. 3 Claims. (Cl. 188—214.)



1. A brake beam comprising the usual compression and tension members and the central truss, and supporting elements permanently attached to the compression member and extending therefrom to beneath the tension member but unattached thereto.

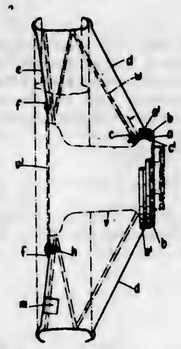
1,390,969. DISPLAY-RACK. ALBERT LEET, Bixby, Okla. Filed June 8, 1920. Serial No. 387,454. 2 Claims. (Cl. 33—130.)



1. In combination with a display rack for fabrics, including standards between which rolls carrying fabrics are

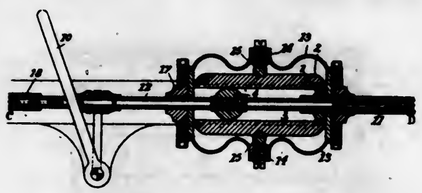
journaled, and said standards having their outer faces between the rolls provided with sockets, of a fabric cutting and measuring device for the rack, comprising a member having lugs on the inner face thereof designed to be received in the opposed pairs of sockets, said member having an angle slot entering from its lower face and providing a passage for the fabric, a spring wound tape measure on one corner of the member, and a slidable cutting element on said member.

1,390,970. WHEEL FOR ROAD-VEHICLES. SYDNEY PENNEY, London, England. Filed Jan. 11, 1921. Serial No. 436,620. 2 Claims. (Cl. 301—37.)



1. A detachable cover for the outer side of spoked wheels comprising a disk extending between the hub and the rim, an L-shaped ring adapted to be attached to the spokes of the wheel adjacent to the outer flange of the hub by a plurality of radially arranged clamping devices, and a nut threaded on the horizontal element of said ring and adapted to secure said disk to said ring.

1,390,971. GEARING. PIERRE SAMAIN, Cusy, France. Filed Jan. 24, 1921. Serial No. 439,651. 4 Claims. (Cl. 74—26.)

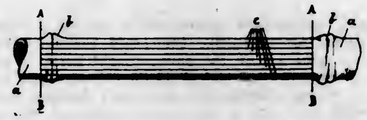


1. Gearing of the type described, comprising a supporting element, a pair of undulated resilient caps mounted on said supporting element, a pair of oppositely disposed disks having a central universal bearing against said caps, a hollow drive shaft extending through the supporting element and between the disks and provided with an annular member engaging the faces of the disks for imparting rotation thereto, a solid shaft extending between the disks having bearing in the end portion of the hollow drive shaft and the supporting element, an engaging member carried by the solid shaft and engaged by the disks, means for moving the solid shaft in an axial direction, and idler rollers adapted to be engaged by the disks carried by the supporting element.

1,390,972. OXYMERCURY NITROPHENOLATE. JAY FRANK SCHAMBERG, GEORGE W. RAIZISS, and JOHN A. KOLMER, Philadelphia, Pa., assignors to Dermatological Research Laboratories, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 21, 1920. Serial No. 375,456. 6 Claims. (Cl. 23—24.)

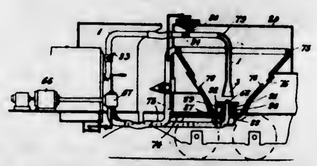
1. The new product described which is an oxymercury nitrophenolate resulting from the reaction of an alkali salt solution of nitrophenol on an excess of mercuric acetate.

1,390,973. BRISTLE FOR BROOMS AND BRUSHES. ERNST HERMANN WILHELM VON NIESSEN, Wilmersdorf-Berlin, Germany. Filed Oct. 24, 1919. Serial No. 333,118. 1 Claim. (Cl. 15—27.)



A bristle tuft made from a longitudinal section of a joint of a reed, and having at one end an integral portion of the reed knot as a head, and the remainder of the section being split longitudinally.

1,390,974. APPARATUS FOR STIRRING AND FEEDING OF PULVERULENT FUEL IN FURNACES FOR LOCOMOTIVES OR THE LIKE. KARL HJALMAR VILHELM VON PORAT, Stockholm, Sweden, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Original application filed Oct. 12, 1916, Serial No. 125,223. Divided and this application filed Jan. 21, 1918. Serial No. 213,110. 11 Claims. (Cl. 302—53.)

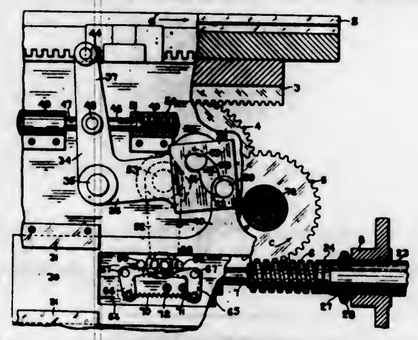


1. In apparatus for storing up and feeding pulverulent fuel for furnaces, a receptacle for the fuel mass, a fuel outlet pipe, a device for supplying a gaseous medium, such as air, into the mass in said receptacle, the discharge part of said device and the receiving opening of the fuel outlet pipe being both arranged in the lower part of the receptacle some distance above its bottom, means for preventing the fuel from falling by gravity into said opening, a second device for supplying a gaseous medium, such as air, into the mass in the receptacle, said second device opening into the interior of the receptacle at points lying at a relatively great distance from said pipe and higher than the plane in which the said fuel receiving opening is located.

REISSUES.

15,190. MECHANICAL MOVEMENT. WARREN F. FRASER, Westboro, Mass., assignor, by mesne assignments, to Norton Company, Worcester, Mass., a Corporation of Massachusetts. Filed Oct. 20, 1920. Serial No. 418,240½. Original No. 1,283,142, dated Oct. 29, 1918, Serial No. 207,042, filed Dec. 14, 1917. 27 Claims. (Cl. 74—98.)

1. In a machine having a reciprocable table, a reciprocating mechanism therefor, comprising a driven member operatively connected with said table, a driver therefor, driving and reversing mechanism to move the driver in opposite directions to traverse the table through a variable stroke, said driver being capable of a secondary movement which tends to neutralize its driving action



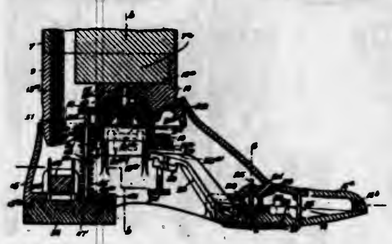
upon the driven member, and positively actuated mechanism to cause such secondary movement and start and stop the table gradually at each reversal and to permit the table to be driven at a uniform rate between reversals.

15,191. VEHICLE-WHEEL. GEORGE S. GALLAGHER and GUSTAV SCHADEE, New York, N. Y., assignors, by mesne assignments, to Emma G. Gallagher and Alice Schadee, New York, N. Y. Filed Feb. 13, 1919. Serial No. 276,848. Original No. 1,215,924, dated Feb. 13, 1917, Serial No. 68,335, filed Dec. 23, 1915. 4 Claims. (Cl. 152—33.)



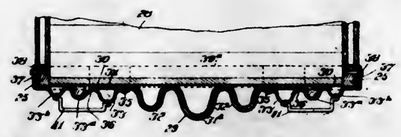
1. A vehicle wheel including inner and outer rims, pneumatic tubes arranged between the same, springs and guides therefor interposed in the space between said rims and tubes, and means for regulating the tension of the springs.

15,192. ARTIFICIAL LIMB. GEORGE E. MOORE, Paterson, N. J. Filed Mar. 10, 1921. Serial No. 451,285. Original No. 1,368,348, dated Feb. 15, 1921, Serial No. 316,032, filed Aug. 8, 1919. 6 Claims. (Cl. 3—7.)



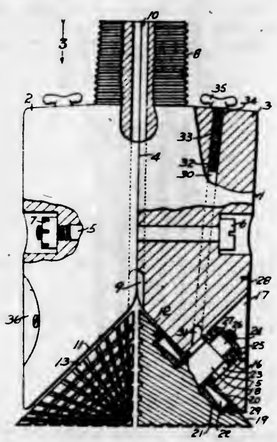
4. An artificial limb comprising in combination an ankle member, a foot member secured thereto, a tubular bearing running transversely of said foot member intermediate the sole and in step portions thereof, a concave cylindrical bushing on said toe member to coöperate with said bearing, means for securing said bushing to said bearing an extension of said toe member rearward from said bearing and a stop carried by said foot member to cooperate with said extension to limit the movement of said toe member about said bearing.

15,193. CORRUGATED SHEET-METAL CAR END. WALTER P. MURPHY, New York, N. Y. Filed Feb. 23, 1921. Serial No. 447,347. Original No. 1,309,484, dated July 8, 1919, Serial No. 82,423, filed Mar. 6, 1916. 20 Claims. (Cl. 105—410.)



3. A sheet metal end structure for a railway car comprising metal sheets formed at the center of the end with a single corrugation of maximum depth and with a plurality of parallel vertically disposed corrugations on opposite sides thereof which become gradually shallower toward the opposite sides of the panel.

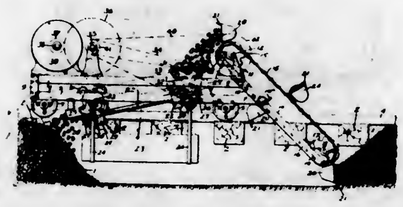
15,194. ROLLER-BIT. THADDEUS PATIN, Brea, Calif. Filed May 14, 1921. Serial No. 469,566. Original No. 1,305,488, dated June 3, 1919, Serial No. 252,959, filed Sept. 6, 1918. 4 Claims. (Cl. 255—71.)



1. In a roller bit, the combination of a cylindrical head having a plurality of angularly disposed inner flat faces, each having a bearing opening extending through the head and normal to said face, each of said openings having its bore reduced in diameter intermediate its ends, a conical cutting roller for each face having a spindle extending into a bearing opening and through the portion of the bore of reduced diameter, locking means detachably mounted on the ends of said spindles to prevent withdrawal of the latter, a detachable external closure

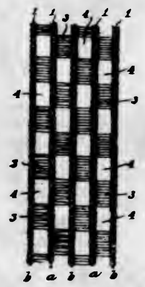
plate for each of said bearing openings flush with the cylindrical surface of the head, antifriction bearing means interposed between said head and each cutting roller to take the thrust of the latter, and a resilient closure ring interposed between each cutting roller and the flat face of said head to prevent leakage of lubricant, said head being provided with lubricant storage chambers freely communicating with each of said bearing openings.

15,195. MACHINE FOR CLEANING RAILROAD-BALLAST. HOWELL D. PRATT, Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Oct. 27, 1919. Serial No. 333,841. Original No. 1,272,849, dated July 16, 1918, Serial No. 201,769, filed Nov. 13, 1917. 11 Claims. (Cl. 262—2.)



11. The combination with a machine for cleaning ballast arranged to travel in the clear space between the tracks of a double track railway, of means for guiding it along a path parallel with the track, the entire mechanism being so arranged and positioned that trains can pass on either track without interfering therewith.

15,196. ELASTIC FABRIC. MEYER W. SCHLOSS, New York, N. Y., assignor to Treo Company, Inc., a Corporation of New York. Filed July 1, 1921. Serial No. 481,934. Original No. 1,359,112, dated Nov. 16, 1920, Serial No. 297,558, filed May 16, 1919. 5 Claims. (Cl. 66—4.)



5. An elastic fabric comprising a series of parallel elastic cords spaced apart, and connected by cross threads running back and forth in close relation between each alternate cord and the next adjacent cords, the cross threads being repeatedly run back and forth a number of times in each space at one side of an alternate cord, then across that alternate cord and run back and forth a number of times in the space upon that side of that alternate cord, alternating from side to side to provide staggered open spaces between the cords, the cross thread for each alternate cord being disposed to form its groups of open spaces in staggered relation to those of the next adjacent alternate cords.

DESIGNS.

58,985. WALL-PLATE FOR LIGHTING-FIXTURES. HARRY C. ADAM, St. Louis, Mo. Filed Jan. 14, 1921. Serial No. 437,362. Term of patent 14 years.



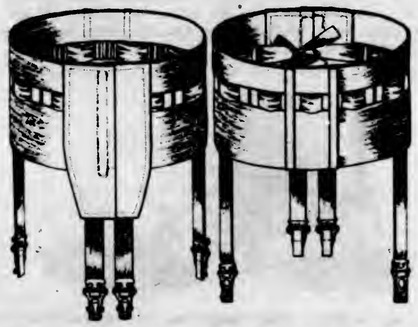
The ornamental design for a wall plate for lighting fixtures, as shown.

58,986. LIGHTING-FIXTURE URN. HARRY C. ADAM, St. Louis, Mo. Filed Jan. 14, 1921. Serial No. 437,363. Term of patent 14 years.



The ornamental design for a lighting-fixture urn, as shown.

58,987. LADY'S GIRDLE. AUGUST B. BECK, Jersey City, N. J. Filed Mar. 7, 1921. Serial No. 450,489. Term of patent 14 years.



The ornamental design for a lady's girdle, as shown.

58,988. LACE. HERBERT BINCH, Glens Falls, N. Y., assignor to Thomas Wilson & Co., New York, N. Y., a Corporation of New York. Filed Apr. 27, 1921. Serial No. 464,998. Term of patent 3½ years.



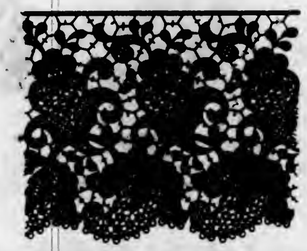
The ornamental design for lace, as shown.

58,989. LACE. HERBERT BINCH, Glens Falls, N. Y., assignor to Thomas Wilson & Co., New York, N. Y., a Corporation of New York. Filed Apr. 27, 1921. Serial No. 464,994. Term of patent 3½ years.



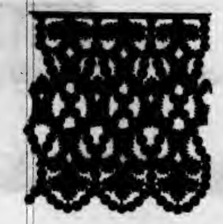
The ornamental design for lace, as shown.

58,990. LACE. OTTO BRUGGEMANS, West Hoboken, N. J. Filed Nov. 19, 1920. Serial No. 425,283. Term of patent 3½ years.



The ornamental design for a lace, as shown.

58,991. LACE. OTTO BRUGGEMANS, West Hoboken, N. J. Filed Nov. 19, 1920. Serial No. 425,284. Term of patent 3½ years.



The ornamental design for a lace, as shown.

58,992. TEXTILE FABRIC. JAMES H. BUNTING, New York, N. Y., assignor to Susquehana Silk Mills, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,047. Term of patent 3½ years.



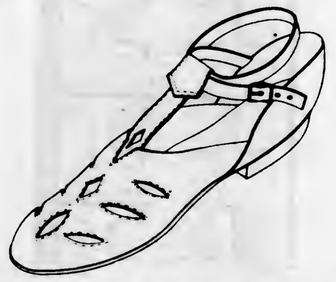
The ornamental design for a textile fabric, as shown.

58,993. APRON. MATTIE M. BURKE, Los Angeles, Calif. Filed May 26, 1921. Serial No. 472,904. Term of patent 3½ years.



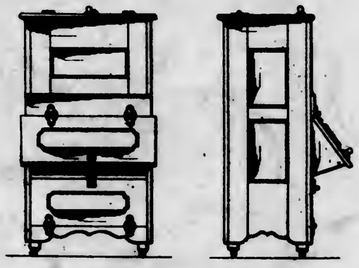
The ornamental design for an apron, as shown.

58,994. SANDAL. JAMES P. BURNS, Los Angeles, Calif. Filed Apr. 28, 1921. Serial No. 465,220. Term of patent 7 years.



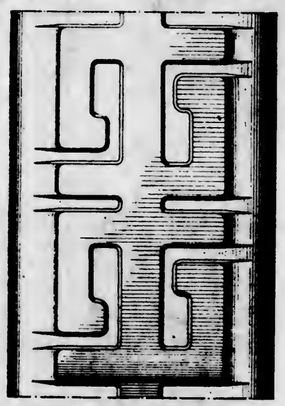
The ornamental design for a sandal, as shown.

58,995. COAL-CABINET. BYRDE CAMPBELL, Evansville, Ind. Filed Mar. 14, 1921. Serial No. 452,829. Term of patent 14 years.



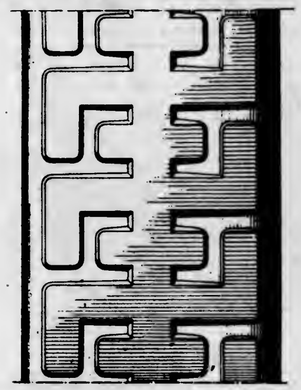
The ornamental design for a coal cabinet, as shown.

58,996. TIRE-TREAD. ROWLAND E. CARTLIDGE, Akron, Ohio, assignor to Lomer Armored Tire Company, Newcastle, Ind., a Corporation of Indiana. Filed Dec. 14, 1920. Serial No. 430,757. Term of patent 14 years.



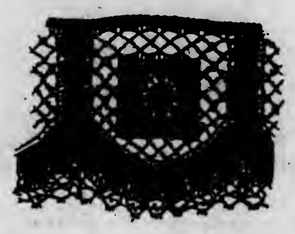
The ornamental design for a tire-tread, as shown.

58,997. TIRE-TREAD. ROWLAND E. CARTLIDGE, Akron, Ohio, assignor to Lomer Armored Tire Company, Newcastle, Ind., a Corporation of Indiana. Filed Dec. 15, 1920. Serial No. 430,979. Term of patent 14 years.



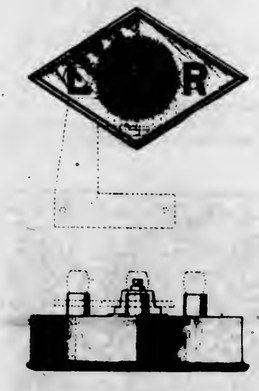
The ornamental design for a tire-tread, as shown.

58,998. LACE. MARC H. DAUDY, Philadelphia, Pa., assignor to North American Lace Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Apr. 20, 1921. Serial No. 463,049. Term of patent 3½ years.



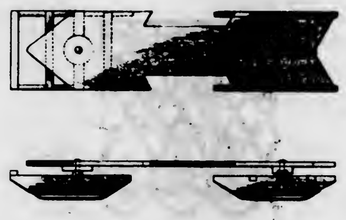
The ornamental design for lace, substantially as shown.

58,999. REAR SIGNALING DEVICE FOR AUTOMOBILES. HARRY A. DEVER, Wilmette, Ill. Filed Jan. 6, 1921. Serial No. 435,525. Term of patent 14 years.



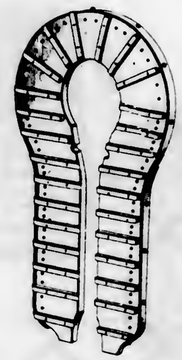
The ornamental design for a rear signaling device for automobiles, as shown.

59,000. BOB-SLED. EMORY S. ENSIGN, Jamaica, N. Y. Filed Feb. 12, 1920. Serial No. 358,152. Term of patent 7 years.



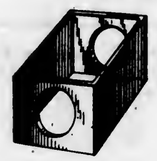
The ornamental design for a bob-sled, as shown.

59,001. SIGNBOARD FOR WEIGHING-SCALES. KENNETH GRAY FISHER, Tacoma, Wash. Filed Jan. 20, 1921. Serial No. 438,756. Term of patent 14 years.



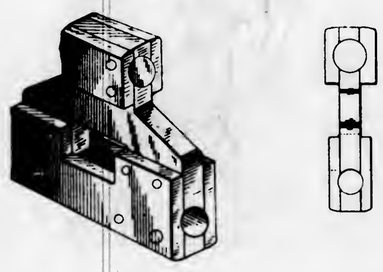
The ornamental design for a sign board for weighing scales, as shown.

59,002. PROTECTIVE COVER FOR A LOOM-PICKER. MAURICE B. FREDERICKS, Waltham, Mass., assignor to The Fiberbone Company, Waltham, Mass., a Corporation of Massachusetts. Filed Apr. 13, 1921. Serial No. 461,101. Term of patent 3½ years.



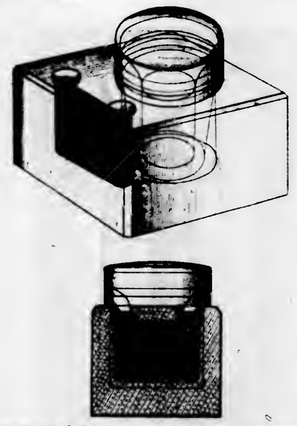
The ornamental design for a protective cover for a loom picker, as shown.

59,003. PICKER FOR A LOOM. MAURICE B. FREDERICKS, Waltham, Mass., assignor to The Fiber-Bone Company, Waltham, Mass., a Corporation of Massachusetts. Filed Apr. 13, 1921. Serial No. 461,102. Term of patent 3½ years.



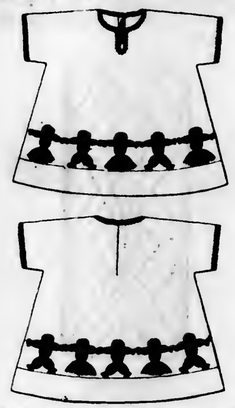
The ornamental design for a picker for a loom, as shown.

59,004. INKWELL. ELI B. GOLDSTEIN, Chicago, Ill. Filed Feb. 26, 1921. Serial No. 448,249. Term of patent 14 years.



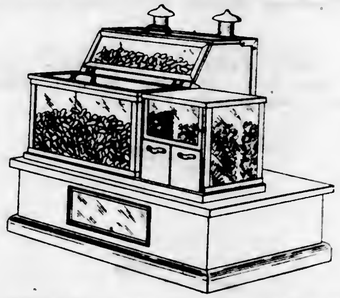
The ornamental design for an inkwell, as shown.

59,005. CHILD'S BLOUSE. PEARL B. HANNAFORD, Los Angeles, Calif. Filed June 6, 1921. Serial No. 475,438. Term of patent 3½ years.



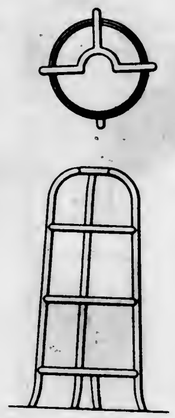
The ornamental design for a child's blouse, as shown.

59,006. VENDING-CABINET. JAMES I. HOLCOMB and JACOB F. HOKE, Jr., Indianapolis, Ind. Filed Nov. 1, 1920. Serial No. 421,192. Term of patent 14 years.



The ornamental design for a vending cabinet, as shown.

59,007. STAND. JOSEPH D. HOLMES, New York, N. Y. Filed Jan. 15, 1921. Serial No. 437,600. Term of patent 7 years.



The ornamental design for a stand, as shown.

59,008. TIRE-TREAD. JOSEPH F. JAMROWICZ, Detroit, Mich. Filed Mar. 17, 1921. Serial No. 453,151. Term of patent 7 years.

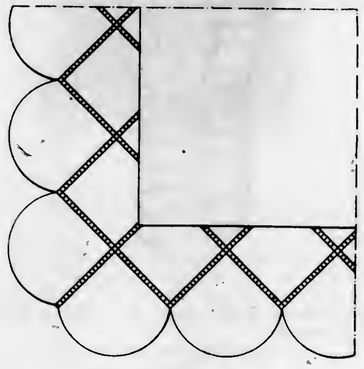
The ornamental design for a tire tread, as shown.

59,009. SOFT-COLLAR CLASP. HERMAN KAPOTKIN, New York, N. Y. Filed Mar. 25, 1921. Serial No. 455,639. Term of patent 7 years.



The ornamental design for a soft collar clasp as shown.

59,010. TRIMMING FOR FABRICS AND LIKE MATERIALS. RUDOLF KEHR, Weehawken, N. J. Filed Apr. 21, 1921. Serial No. 463,405. Term of patent 3½ years.



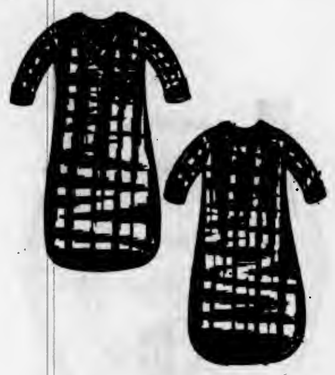
The ornamental design for trimming for fabrics and like materials, as shown.

59,011. TOY MONKEY. WILLIAM F. KELLER, Detroit, Mich. Filed Apr. 11, 1921. Serial No. 460,486. Term of patent 14 years.



The ornamental design for a toy monkey, as shown.

59,012. NIGHT-SHIRT. IDA N. KELLY, Long Beach, Calif. Filed Mar. 24, 1921. Serial No. 455,160. Term of patent 14 years.



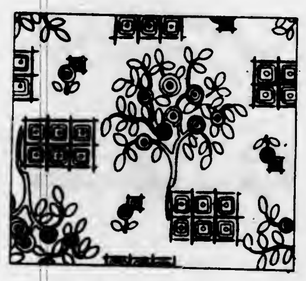
The ornamental design for a night shirt as shown.

59,013. PENCIL-CAP. ELWOOD E. KNISELY, Springfield, Ill., assignor to George R. Shanklin, Springfield, Ill. Filed Mar. 8, 1921. Serial No. 450,637. Term of patent 14 years.



The ornamental design for a pencil cap, as shown.

59,014. TEXTILE FABRIC. ELLA KRUPICKA, New York, N. Y., assignor to Susquehanna Silk Mills, New York, N. Y., a Corporation of New York. Filed Apr. 20, 1921. Serial No. 463,056. Term of patent 3½ years.



The ornamental design for a textile fabric, as shown.

59,015. FLAG, BANNER, OR ARTICLE OF A SIMILAR NATURE. HELEN PHILLIPS LANE, Boston, Mass. Filed May 16, 1918. Serial No. 235,050. Term of patent 3½ years.



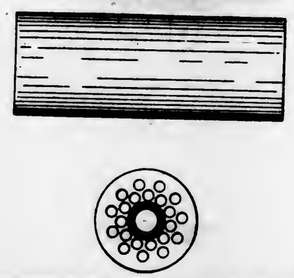
The ornamental design for a flag, banner, or article of a similar nature as shown.

59,016. VASE. FRANK H. LA PIERRE, East Orange, N. J. Filed Feb. 18, 1921. Serial No. 446,189. Term of patent 7 years.



The ornamental design for a vase as shown.

59,017. INKING-ROLLER. LEE LA TOUR and ALTON F. MUNNELL, Omaha, Nebr., assignors, by direct and mesne assignments, to Progress Roller Company, Omaha, Nebr., a Corporation. Filed Dec. 22, 1919. Serial No. 346,797. Term of patent 14 years.



The ornamental design for an inking roller, as shown.

59,018. QUILT. FREDERICK G. LENTZ, Langhorne, Pa., assignor to The Quaker Mills, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Jan. 4, 1919. Serial No. 269,702. Term of patent 3½ years.



The ornamental design for a quilt, as shown.

59,019. BANK-NOTE. ALFRED S. MAJOR, New York, N. Y., assignor to American Bank Note Company, New York, N. Y., a Corporation of New York. Filed Mar. 7, 1921. Serial No. 450,495. Term of patent 14 years.



The ornamental design for a bank note as shown.

59,020. PIN. MOISE MANFREDY, Brooklyn, N. Y. Filed Jan. 26, 1921. Serial No. 440,234. Term of patent 3½ years.





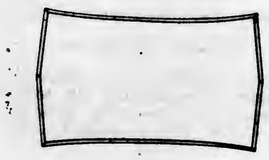
The ornamental design for a pin, as shown.

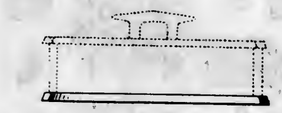
59,021. STORAGE-BATTERY TERMINAL. PAUL M. MARKO, Brooklyn, N. Y. Filed Apr. 12, 1921. Serial No. 460,815. Term of patent 14 years.



The ornamental design for a storage battery terminal, as shown.

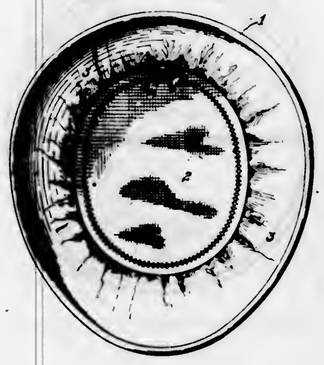
59,022. TOP, BOTTOM, OR THE LIKE FOR A TOILET-RECEPTACLE. HARRY DANIEL MOSAUER, New York, N. Y., assignor to Tuskeloid Company, Inc., New York, N. Y., a Corporation of New York. Filed Nov. 29, 1920. Serial No. 427,235. Term of patent 7 years.





The ornamental design for a top, bottom, or the like for a toilet receptacle, as shown.

59,023. HAT-LINING. JOSEPH W. MASON, Cleveland, Ohio, assignor to The Hart & Company, Cleveland, Ohio, a Corporation of Ohio. Filed Mar. 21, 1921. Serial No. 454,291. Term of patent 14 years.



The ornamental design for a hat lining, substantially as shown and described.

59,024. TIRE-CORE. CHARLES D. MCCOLLOUGH, Des Moines, Iowa. Filed Apr. 3, 1920. Serial No. 371,160. Term of patent 14 years.



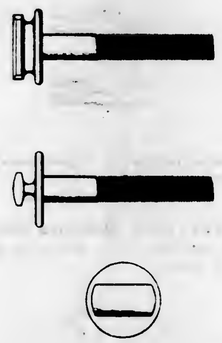
The ornamental design for a tire core, as shown.

59,025. COMBINED WATCH AND KEY-RING STRAP. DAVID RUSH MCCULLOUGH, Oakland, Calif. Filed Mar. 2, 1921. Serial No. 449,227. Term of patent 3½ years.



The ornamental design for a combined watch and key ring strap, substantially as shown.

59,026. ANCHOR FOR SAFETY-HARNESS. GEORGE F. MINNIS, Chicago, Ill., assignor to National Safety Window Device Company, a Corporation of Illinois. Filed Nov. 1, 1920. Serial No. 421,187. Term of patent 14 years.



The ornamental design for an anchor for safety harness, as shown.

59,027. ANCHOR FOR SAFETY-HARNESS. GEORGE F. MINNIS, Chicago, Ill., assignor to National Safety Window Device Company, a Corporation of Illinois. Filed Nov. 1, 1920. Serial No. 421,188. Term of patent 14 years.



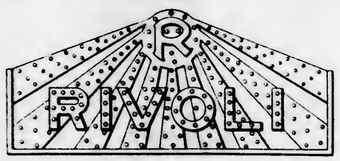
The ornamental design for an anchor for safety harness, as shown.

59,028. HOLDDOWN-PLATE FOR BATTERIES. PAUL E. NORRIS, Forest Hill borough, Pa. Filed Apr. 23, 1921. Serial No. 463,964. Term of patent 14 years.



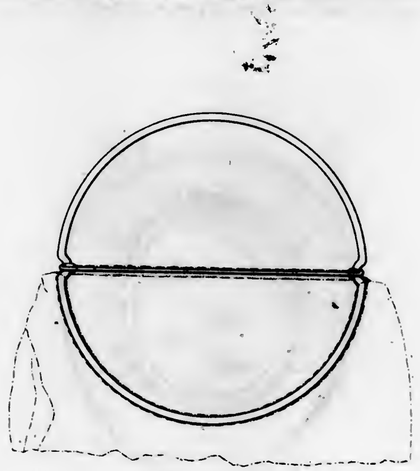
The ornamental design for a holddown plate for batteries, as shown.

59,029. ELECTRIC SIGN. MORTIMER NORDEN, New York, N. Y. Filed Apr. 20, 1921. Serial No. 463,063. Term of patent 14 years.



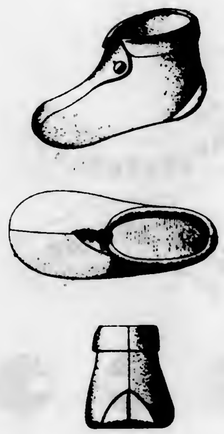
The ornamental design for an electric sign, as shown.

59,030. BAG-FRAME. ERNEST NORMAN and RAYMOND R. AMES, New York, N. Y. Filed Nov. 2, 1920. Serial No. 421,422. Term of patent 3½ years.



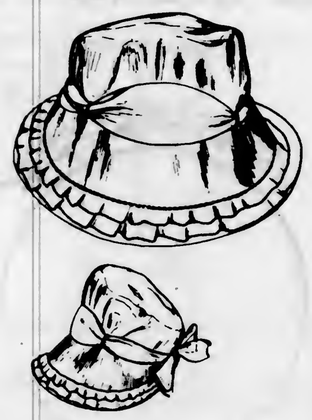
The ornamental design for a bag frame, as shown.

59,031. SHOE. FRANK PHILLIPS, Brooklyn, N. Y. Filed Nov. 18, 1920. Serial No. 425,010. Term of patent 14 years.



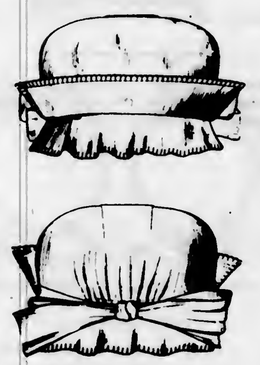
The ornamental design for a shoe, as shown.

59,032. BONNET. KATHLEEN M. POLHAMUS, South Pasadena, Calif. Filed Apr. 11, 1921. Serial No. 460,501. Term of patent 3½ years.



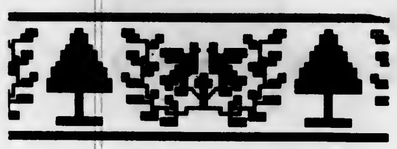
The ornamental design for a bonnet, as shown.

59,033. SUNBONNET. KATHLEEN M. POLHAMUS, South Pasadena, Calif. Filed May 11, 1921. Serial No. 468,751. Term of patent 3½ years.



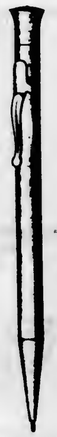
The ornamental design for a sunbonnet as shown.

59,034. TEXTILE FABRIC OR SIMILAR ARTICLE. HARRY L. RANSOM and JEROME EVERETT EMERSON, Lockport, N. Y., assignors to Niagara Textile Company, Lockport, N. Y. Filed Apr. 16, 1921. Serial No. 462,041. Term of patent 3½ years.



The ornamental design for a textile fabric or similar article, as shown.

59,035. PENCIL. WALTER A. SHEAFFER, Fort Madison, Iowa. Filed Apr. 10, 1919. Serial No. 289,143. Term of patent 14 years.



The ornamental design for a pencil, as shown.

59,036. VASE. MAX SHERMAN, Brooklyn, N. Y., assignor to Blue Ribbon Silver Manufacturers, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 16, 1921. Serial No. 452,765. Term of patent 7 years.



The ornamental design for a vase as shown.

59,037. CHILD'S FROCK. DORIS M. SMITH, Oakland, Calif. Filed Aug. 31, 1920. Serial No. 407,271. Term of patent 3½ years.



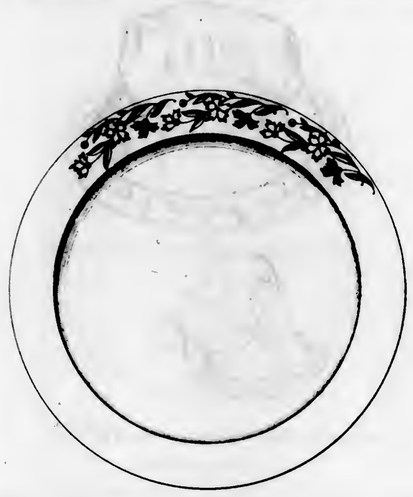
The ornamental design for a child's frock, as shown.

59,038. CROCKERY AND CHINAWARE. RALPH E. STUART, Buffalo, N. Y., assignor to Kniffin & Demarest Co., a Corporation of New York. Filed May 12, 1921. Serial No. 469,051. Term of patent 14 years.



The ornamental design for crockery and chinaware, as shown.

59,039. CROCKERY AND CHINAWARE. RALPH E. STUART, Buffalo, N. Y., assignor to Kniffin & Demarest Co., a Corporation of New York. Filed May 12, 1921. Serial No. 469,052. Term of patent 14 years.



The ornamental design for crockery and chinaware, as shown.

59,040. HANDKERCHIEF. CHESTER LAURENCE SUMNER. Tacoma, Wash. Filed Mar. 16, 1921. Serial No. 452,766. Term of patent 7 years.



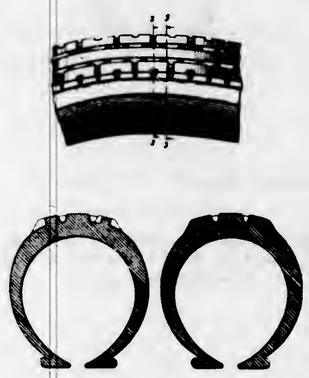
The ornamental design for a handkerchief, as shown.

59,041. KITCHEN-CABINET. EUGENE S. SUTTON, Seattle, Wash. Filed Oct. 25, 1920. Serial No. 419,548. Term of patent 7 years.



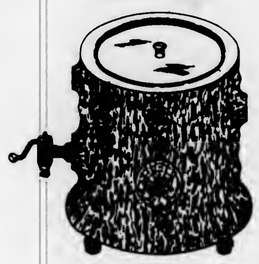
The ornamental design for a kitchen cabinet as shown.

59,042. TIRE-TREAD. HERBERT H. SWAN, Grand Rapids, Mich. Filed Jan. 5, 1921. Serial No. 435,285. Term of patent 14 years.



The ornamental design for a tire tread substantially as shown.

59,043. BEVERAGE-DISPENSING APPARATUS. JOHN M. TRAVIS, St. Louis, Mo. Filed Apr. 23, 1921. Serial No. 463,960. Term of patent 7 years.



The ornamental design for a beverage dispensing apparatus, as shown.

59,044. ANKLET. CHARLES TWEEDIE, Jefferson City, Mo. Filed Jan. 7, 1921. Serial No. 435,752. Term of patent 14 years.



The ornamental design for an anklet, as shown.

59,045. ANKLET. CHARLES TWEEDIE, Jefferson City, Mo. Filed Jan. 7, 1921. Serial No. 435,753. Term of patent 14 years.



The ornamental design for an anklet, as shown.

59,046. ANKLET. CHARLES TWEEDIE, Jefferson City, Mo. Filed Jan. 10, 1921. Serial No. 436,361. Term of patent 14 years.



The ornamental design for an anklet, as shown.

59,047. BOOT-TOP. CHARLES TWEEDIE, Jefferson City, Mo. Filed Jan. 10, 1921. Serial No. 436,362. Term of patent 14 years.



The ornamental design for a boot top, as shown.

59,048. BOOT-TOP. CHARLES TWEEDIE, Jefferson City, Mo. Filed Jan. 10, 1921. Serial No. 436,363. Term of patent 14 years.



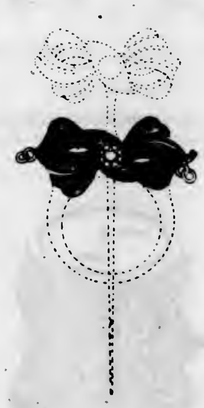
The ornamental design for a boot top, as shown.

59,049. TIRE. EDWARD G. WEILER, Cleveland, Ohio, assignor to The Electric Vulcanizing Rubber Company, Cleveland, Ohio, a Corporation of Ohio. Filed Feb. 17, 1921. Serial No. 445,899. Term of patent 14 years.



The ornamental design for a tire as shown.

59,050. BOW-CLASP OR SIMILAR ARTICLE. HENRY WELLEN, New York, N. Y. Filed Feb. 3, 1921. Serial No. 442,310. Term of patent 7 years.



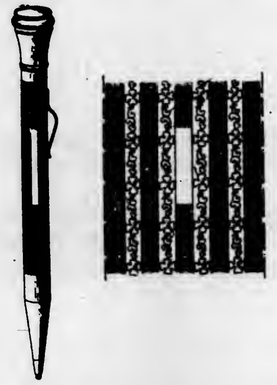
The ornamental design for a bow clasp or similar article, as shown.

59,051. DOLL. URQUHART WILCOX, Buffalo, N. Y. Filed Aug. 18, 1920. Serial No. 404,434. Term of patent 14 years.

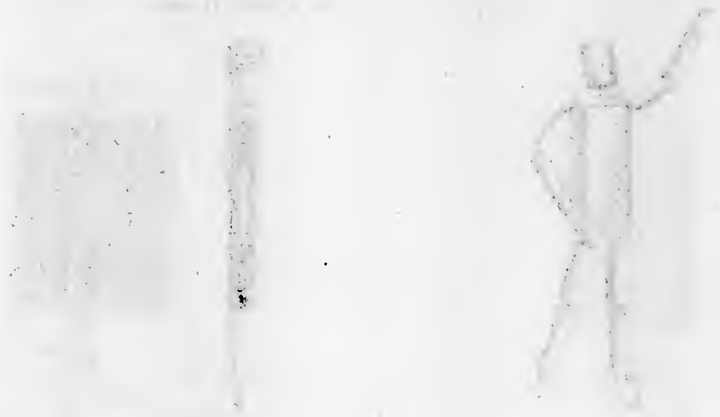


The ornamental design for a doll, as shown.

59,052. PEN AND PENCIL CASE. JOHN H. WORTHY, Elgin, and CLARENCE W. LUND, Chicago, Ill., assignors to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed Apr. 25, 1921. Serial No. 464,451. Term of patent 14 years.



The ornamental design for a pen and pencil case as shown.



[PUBLISHED SEPTEMBER 27, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 97,175. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA

LAWN CLEANER

No claim being made to the words "Lawn Cleaner" apart from the mark as shown in the drawing.

Particular description of goods.—Machines for Cleaning Lawn-Surfaces.

Claims use since the summer of 1906.

Ser. No. 97,177. CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA JR. BALL BEARING

No claim being made to the words "Ball Bearing" apart from the mark shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since early fall of 1901.

Ser. No. 97,180. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA *UNDERCUT* B.B.TRIMMER

No claim being made to the words "Undercut B. B. Trimmer" apart from the mark as shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since early spring of 1911.

Ser. No. 97,185. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.



No claim being made for the use of the words "Grand Horse Mower" apart from the mark as shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since spring of 1908.

Ser. No. 97,187. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA BALL BEARING TRIMMER

No claim being made to the words "Ball Bearing Trimmer" apart from the mark as shown in the drawing.

Particular description of goods.—Lawn-Mowers.

Claims use since the summer of 1909.

Ser. No. 97,189. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA·GOLF·BALL·BEARING

No claim being made to the words "Golf Ball Bearing" apart from the mark as shown in the drawing.
Particular description of goods.—Lawn-Mowers.
Claims use since the early summer of 1907.

Ser. No. 97,190. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN BRAUN & SONS, Philadelphia, Pa., assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 29, 1916.

PENNSYLVANIA·PUTTING·GREENS

No claim being made to the words "Putting Greens" apart from the mark as shown in the drawing.
Particular description of goods.—Lawn-Mowers.
Claims use since the summer of 1912.

Ser. No. 118,407. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE TAGIT COMPANY, Rockford, Ill. Filed May 12, 1919.

Tagit

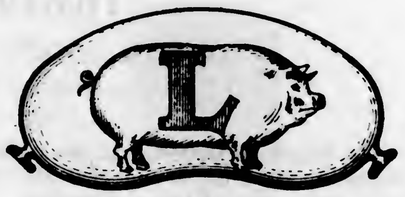
Consists of the word "Tagit."
Particular description of goods.—Tags Made of Metal and Fabric.
Claims use since June 22, 1916.

Ser. No. 122,999. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE REMAR COMPANY, Oakland, Calif. Filed Sept. 22, 1919.

REMAR

Particular description of goods.—Bakery Products—Namely, White Wheat Bread, Graham Bread, Rye Bread, Raisin-Bread.
Claims use since June 16, 1919.

Ser. No. 125,571. (CLASS 46. FOODS AND INGREDIENTS OF FOODS. JOHN LEWIS & COMPANY, Spokane, Wash. Filed Dec. 4, 1919.



No claim is made to the picture of a pig and a link of sausage apart from the mark showing in the drawing, wherein the letter "L" is shaded to indicate the color red.
Particular description of goods.—Packing-House Products — Namely, Fresh Hams and Pork, Cured Hams, Bacon, and Shoulders, Sausages and Sausage Meat, and Lard.
Claims use since Sept. 1, 1919.

Ser. No. 127,882. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN MILK PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 3, 1920.



Particular description of goods.—Canned Evaporated Milk and Canned Condensed Milk.
Claims use since Dec. 5, 1919.

Ser. No. 129,933. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JACOB M. JACOBS, Paterson, N. J. Filed Mar. 19, 1920.



Particular description of goods.—A Medicinal Preparation for Removing Corns, Callouses, and Warts.
Claims use since Jan. 1, 1920.

Ser. No. 130,547. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NYAL COMPANY, Detroit, Mich. Filed Apr. 2, 1920.



Consisting of the representation of a peacock upon a panel divided into three unequal divisions, the central division of which is represented in green, the representation of the peacock being unequally disposed in all of such divisions.
Particular description of goods.—Toilet Preparations—viz., Quinin and Sage Hair-Tonic, Liquid Shampoo; Beauty-Balm, White; Beauty-Balm, Flesh; Hand-Lotion, Shaving-Lotion, Almond Cream, Disappearing Cream, Cold-Cream, and Face-Powder.
Claims use since Dec. 27, 1918.

Ser. No. 132,358. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHARLES F. HINDLE, New York, N. Y. Filed May 12, 1920.

Hindle

Particular description of goods.—String-Galvanometers and Photographic Recording and Projecting Apparatus Employed in Connection Therewith.
Claims use since Mar. 1, 1917.

Ser. No. 133,402. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHEW'T COMPANY, Cincinnati, Ohio. Filed June 8, 1920.

CHEW'T

Particular description of goods.—Combination of Chicle and Essence of Tobacco.
Claims use since May 14, 1920.

Ser. No. 134,922. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE SCHAEFER TENT & AWNING CO., Denver, Colo. Filed July 13, 1920.



The drawing is lined for red and gold.
Particular description of goods.—Auto Porch-Beds—Namely, a Portable and Serviceable Bed Carried with an Automobile When Touring.
Claims use since Sept. 15, 1913.

Ser. No. 135,241. (CLASS 38. PRINTS AND PUBLICATIONS.) HOLOPHANE GLASS COMPANY, New York, N. Y. Filed July 21, 1920.

DATALOG

Particular description of goods.—An Annual Catalogue.
Claims use since July 1, 1920.

Ser. No. 135,526. (CLASS 32. FURNITURE AND UPHOLSTERY.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed July 28, 1920.

LA COQUETTE

Particular description of goods.—Hand-Mirrors and Picture-Frames.
Claims use since June 1, 1918.

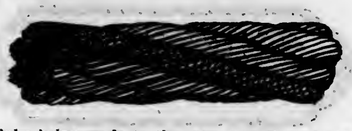
Ser. No. 137,054. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAMSPORT WIRE ROPE CO., Williamsport, Pa. Filed Sept. 10, 1920.

WILLIAMSPORT PURPLE STRAND



No claim being made to the word "Williamsport" or the representation of wire rope apart from the mark shown on the drawing. The drawing is lined to denote the purple color of the strand so indicated, making up a part of a complete rope. One strand going to make up the entire rope in each complete rope is painted purple.
Particular description of goods.—Wire Rope.
Claims use since Aug. 23, 1920.

Ser. No. 137,055. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) WILLIAMSPORT WIRE ROPE CO., Williamsport, Pa. Filed Sept. 10, 1920.



No claim being made to the representation of a section of wire rope. Trade-mark consisting of one purple strand in each complete rope.

Particular description of goods.—Wire Rope.

Claims use since Aug. 23, 1920.

Ser. No. 137,063. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BLATCHFORD CALF MEAL COMPANY, Waukegan, Ill. Filed Sept. 11, 1920.



Particular description of goods.—Food for Hogs or Swine.

Claims use since on or about May 1, 1920.

Ser. No. 137,164. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM H. BRUNING, Evansville, Ind. Filed Sept. 14, 1920.

JA-MO-VA

Particular description of goods.—Coffee.

Claims use since Dec. 21, 1898.

Ser. No. 137,187. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ANTONIO SABATELLA, Curitiba, Parana, Brazil. Filed Sept. 14, 1920.



Particular description of goods.—Medicine for the Treatment of Rheumatism and Arthritism.

Claims use since about 1911.

Ser. No. 137,454. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ERWIN COTTON MILLS CO., West Durham, N. C. Filed Sept. 22, 1920.

NEWHOPE

Particular description of goods.—Denims in the Piece.

Claims use since Apr. 10, 1915.

Ser. No. 137,631. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE RUB-NO-MORE COMPANY, Fort Wayne, Ind. Filed Sept. 25, 1920.



No claim is made to the exclusive use of the words "Soap Chips, Scientific, Laundry Aids, Softens Hard Water, and Builds Up, Ft. Wayne, Indiana," or the representation of the soap chips and powder apart from the mark shown.

Particular description of goods.—Soap and Soap Products—Namely, Soap Chips and Washing-Powder for Laundry Purposes.

Claims use since Jan. 1, 1917.

Ser. No. 137,692. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) AMERICAN BLEACHED GOODS COMPANY, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Filed Sept. 28, 1920.

A.B.G.Co.

Particular description of goods.—Cotton Goods in the Piece.

Claims use since May 3, 1920.

Ser. No. 137,819. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) BURNSTINE AND NACHMAN, New York, N. Y. Filed Oct. 2, 1920.



No claim is made to the words "The Sign of Good Value" apart from the mark as shown in the drawing.

Particular description of goods.—Notions and General Merchandise—Namely, Crochet-Cottons, Pins, Garter-Elastic, Needles, Braids, and Embroidery-Cotton.

Claims use since January, 1912.

Ser. No. 137,942. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) KIMMERLE BROS., San Francisco, Calif. Filed Oct. 5, 1920.

KIMKIN

Particular description of goods.—Tools for Handling Disabled Vehicles, Consisting of Wrecking-Jacks, Plain Jacks, and Tow-Bars.

Claims use since Oct. 1, 1918.

Ser. No. 138,226. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE HEWITT BROS. SOAP COMPANY, Dayton, Ohio. Filed Oct. 12, 1920.

SMILES

Particular description of goods.—A Laundry and Clothes-Washing Preparation.

Claims use since May 1, 1920.

Ser. No. 138,236. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ROBERTS & MONROE, INC., New York, N. Y. Filed Oct. 12, 1920.

ROMON

Particular description of goods.—Force-Feed Lubricators.

Claims use since Aug. 1, 1920.

Ser. No. 139,053. (CLASS 2. RECEPTACLES.) ROBB-GOULD COMPANY, St. Louis, Mo. Filed Nov. 1, 1920.

Kleradesk

Particular description of goods.—Filing-Receptacles in the Nature of Desk Furniture.

Claims use since Oct. 15, 1920.

Ser. No. 139,278. (CLASS 38. PRINTS AND PUBLICATIONS.) THE HERALDA CREAMERY COMPANY, Baltimore, Md. Filed Nov. 6, 1920.

The Dipper

Particular description of goods.—A Title for a Monthly Publication.

Claims use since August, 1920.

Ser. No. 139,853. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) DIAMOND WHIP COMPANY, Chicago, Ill. Filed Nov. 19, 1920.

TIP-TOP

Particular description of goods.—Whips.

Claims use since Aug. 31, 1915.

Ser. No. 140,047. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) MUTUAL PAINT COMPANY, St. Paul, Minn. Filed Nov. 23, 1920.



Particular description of goods.—Ready-Mixed Paints, Varnishes, and Paint Enamels.

Claims use since April, 1920.

Ser. No. 140,546. (CLASS 15. OILS AND GREASES.) RUSK OIL CO. OF PHILADELPHIA, PA., Philadelphia, Pa. Filed Dec. 2, 1920.

TRUFILM

Particular description of goods.—Motor-Oil.

Claims use since Nov. 11, 1920.

Ser. No. 140,821. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) L. B. WADE CO., Boston and Lynn, Mass. Filed Dec. 8, 1920.

WADE'S BESTEVER POLISH

The word "Polish" is disclaimed apart from the mark shown on the drawing.

Particular description of goods.—Polish for Use on Automobiles, Furniture, Pianos, Woodwork, Hardwood Floors.

Claims use since July, 1919.

Ser. No. 140,876. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN DUNN, SON & CO., New York, N. Y. Filed Dec. 10, 1920.



GUANACO

Consists of the word "Guanaco" and a picture of the animal.

Particular description of goods.—Cotton Duck in the Piece.

Claims use since 1879.

Ser. No. 140,897. (CLASS 2. RECEPTACLES.) IRA L. BURLINGAME, St. Louis, Mo. Filed Dec. 10, 1920.

KWIK

Particular description of goods.—Water-Bag Journal-Coolers.

Claims use since Dec. 6, 1920.

Ser. No. 141,130. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) RUSSELL-MILLER MILLING CO., Minneapolis, Minn. Filed Dec. 15, 1920.

AJAX

Particular description of goods.—Wheat-Flour.

Claims use since Jan. 1, 1900.

Ser. No. 141,251. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DETROIT GRAPHITE COMPANY, Detroit, Mich. Filed Dec. 18, 1920.

DEGRACO

Particular description of goods.—Paints Ready Mixed and in Paste and Semipaste Form and Paint Enamels in Liquid Form.

Claims use since Sept. 1, 1914.

Ser. No. 141,252. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELECTROX COMPANY, Peoria, Ill. Filed Dec. 18, 1920.

E-L-E-C-T-R-O-X

Particular description of goods.—Edible Vegetable Oils, Cooking-Oils, Salad-Oils, Vegetable Shortenings, Hydrogenated or Hardened Oils and Fats, for Food Purposes, Oil Compounds, Butterin, and Margarin.

Claims use since Sept. 25, 1920.

Ser. No. 141,253. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELECTROX COMPANY, Peoria, Ill. Filed Dec. 18, 1920.

H-A-R-V-E-S-T

Particular description of goods.—Edible Vegetable Oils, Cooking-Oils, Salad-Oils, Vegetable Shortenings, Hydrogenated or Hardened Oils and Fats, for Food Purposes, Oil Compounds, Butterin, and Margarin.

Claims use since Sept. 16, 1920.

Ser. No. 141,254. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ELECTROX COMPANY, Peoria, Ill. Filed Dec. 18, 1920.

S-P-H-I-N-X

Particular description of goods.—Edible Vegetable Oils, Cooking-Oils, Salad-Oils, Vegetable Shortenings, Hydrogenated or Hardened Oils and Fats, for Food Purposes, Oil Compounds, Butterin, and Margarin.

Claims use since Sept. 24, 1920.

Ser. No. 141,363. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) H. GEO. DAHL, Oakland, Calif. Filed Dec. 21, 1920.

"ZIP"



Particular description of goods.—Hand-Soap.

Claims use since July 17, 1916.

Ser. No. 141,624. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BRENNAN PACKING CO., Chicago, Ill. Filed Dec. 29, 1920.

"METEOR"

Consisting of the word "Meteor."

Particular description of goods.—Packing-House Products—viz., Side Meats—Namely, Bacon, Including Bellies, Fat-Backs, Butts, Plates, Short Clear Backs, Ribs; Fresh Cuts—viz., Pork Loins, Tenderloins, Fresh Shoulders, Fresh Hams, Fresh Bellies, Pigs' Feet, and Pigs' Tongues; Sausages and Lard.

Claims use since Dec. 21, 1920.

Ser. No. 141,686. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) CHARLES MCADAM COMPANY, Chicago, Ill. Filed Dec. 30, 1920.



The words "Pure Potash Benzine Soap" are disclaimed apart from the mark shown.

Particular description of goods.—Soap.

Claims use since Nov. 1, 1920.

Ser. No. 142,324. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BIOCHEMICAL FOOD PRODUCTS CORPORATION, Chicago, Ill. Filed Jan. 17, 1921.

BIOFOOD

Particular description of goods.—A General Tonic and Tissue-Building Preparation.

Claims use since Jan. 10, 1921.

Ser. No. 143,023. (CLASS 2. RECEPTACLES.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Jan. 31, 1921.

CORCO

Particular description of goods.—Sheet-Metal Receptacles and Containers, as Follows: Putty-Drums, Paint and Lead Kegs, Shipping-Drums, Lard Cans and Drums, Water-Tanks, Water-Troughs, Tanks for Wagons, Cattle-Dipping Tanks, Grain-Bins, Hog-Scalders, Mortar-Boxes, Automatic Watering-Tanks, Pails, Ash-Cans, Garbage-Cans, and Coal-Hods.

The trade-mark has been continuously used in the business of said corporation, in the business of its predecessor, Whitaker-Glessner Company, (1917–1920,) and in the business of the predecessor of the latter, Wheeling Corrugating Company, (1900–1917,) since Aug. 1, 1911, on pails, ash-cans, and garbage-cans; since about Nov. 1, 1914, on water-tanks, water-troughs, tanks for wagons, and watering-tanks; since about Jan. 15, 1916, on hog-scalders; since about Jan. 15, 1917, on grain-bins; since about Mar. 1, 1918, on lard cans and drums; since about Aug. 15, 1918, on mortar-boxes; since about Apr. 15, 1919, on putty-drums; since about July 15, 1919, on shipping-drums, and since July 15, 1920, on paint and lead kegs.

Ser. No. 143,071. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VAN DYK AND REEVES, Brooklyn, N. Y. Filed Feb. 1, 1921.

RAJAH

Consisting of the word "Rajah."

Particular description of goods.—Fresh Dates Packed in Cartons.

Claims use since Sept. 29, 1920.

Ser. No. 143,351. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) PAUL G. DOBY, Watertown, S. D. Filed Feb. 9, 1921.

Red River

Particular description of goods.—Non-Alcoholic, Maltless Beverage Sold as a Soft Drink and Syrups for Making the Same.

Claims use since July 1, 1920.

Ser. No. 143,829. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEUSS, HESSLEIN & CO., INC., New York, N. Y. Filed Feb. 19, 1921.

2720

Particular description of goods.—Woven Cotton Piece Goods—Namely, Cotton Canvas.
Claims use since March, 1915.

Ser. No. 143,899. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) TESTALL ELECTRIC MANUFACTURING CO., San Antonio, Tex. Filed Feb. 21, 1921.

IGNI-TEST

Particular description of goods.—Electrical Testing Devices for Detecting Defective Insulation, Breaks, or other Faults or Troubles in Electrical Wiring, Equipment, Apparatus, Appliances, and Electrical Devices Generally, or in the Parts Thereof.
Claims use since approximately January, 1920.

Ser. No. 143,994. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BAKING COMPANY, Seattle, Wash. Filed Feb. 24, 1921.

National Baking Company
THE SNOW WHITE PALACE OF CLEANLINESS
SEATTLE

Applicant disclaims the descriptive clause "The Snow White Palace of Cleanliness" and the geographical term "Seattle."
Particular description of goods.—Bread.
Claims use since Feb. 10, 1921.

Ser. No. 144,220. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE CYCLONE MANUFACTURING CO., INC., Urbana, Ind. Filed Mar. 2, 1921.

TIP-TOP

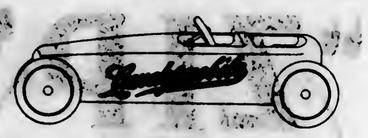
Particular description of goods.—Poultry and Stock Feeders and Fountains.
Claims use since Feb. 1, 1921.

Ser. No. 144,448. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CURD AND BLAKEMORE CO., INC., Louisville, Ky. Filed Mar. 8, 1921.

MORNING DEW

Particular description of goods.—Table-Syrups.
Claims use since Dec. 28, 1920.

Ser. No. 144,459. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) UTAKICHI KAWASAKI, San Francisco, Calif. Filed Mar. 8, 1921.



No claim is made for the illustration of the automobile.
Particular description of goods.—Toy Automobiles.
Claims use since Jan. 1, 1917.

Ser. No. 144,758. (CLASS 2. RECEPTACLES.) WABASH BASKET COMPANY, Marion, Swayzee, Converse, Bunker Hill, and Somerset, Ind. Filed Mar. 14, 1921.



No claim being made to the word "Brand" and "Better Baskets" apart from the mark shown.
Particular description of goods.—Various Kinds of Baskets.
Claims use since 1915.

Ser. No. 144,799. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BRAGER BROS., New York, N. Y. Filed Mar. 16, 1921.

BRAGERACKS

Particular description of goods.—Garment-Hangers.
Claims use since February, 1920.

Ser. No. 144,815. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) A. F. KLOSS CO., Scranton, Pa. Filed Mar. 16, 1921.

O G
The Ripe Juices Of Good Citrus Fruits
O G

No claim being made to the words "The Ripe Juices of Good Citrus Fruits, a Lemon-Lime Drink," apart from the mark shown on the drawing.
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks and Syrups for Making the Same.
Claims use since July 1, 1920.

Ser. No. 144,923. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) LOPES & CO., Philadelphia, Pa. Filed Mar. 18, 1921.



The pictorial representation of the girl shown in the drawing is fanciful. No claim is made to the words "A Treat to Eat," "Pure Semola Guaranteed No Coloring," "Termini Imerese Style" and "Distributors Phila, Pa." apart from the mark shown in the drawing. No claim is made to the words "Lopes & Co."
Particular description of goods.—Macaroni.
Claims use since about Mar. 11, 1921.

Ser. No. 144,963. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) CARTIER, INC., New York, N. Y. Filed Mar. 19, 1921. Under ten-year proviso.

CARTIER

Particular description of goods.—Purses and Pocketbooks.
Claims use since 1859.

Ser. No. 145,113. (CLASS 5. ADHESIVES.) IRA MARCY, Oil City, Pa. Filed Mar. 23, 1921.



Trade-mark is a photograph of the applicant.
Particular description of goods.—Cement Glue for Gluing China, Glassware, Wood, Leather, Paper, and Similar Articles.
Claims use since Mar. 21, 1921.

Ser. No. 145,148. (CLASS 2. RECEPTACLES.) AUTOMOBILE APPLIANCE COMPANY, Boston, Mass. Filed Mar. 24, 1921.

RESERVO

Particular description of goods.—Reserve-Providers for Gasolene and other Liquid-Fuel Tanks of Internal-Combustion Engines.
Claims use since June 1, 1920.

Ser. No. 145,363. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) RICHARDSON CORPORATION, Rochester, N. Y. Filed Mar. 28, 1921.

LIBERTY ORANGE

Applicant hereby disclaims exclusive right to the word "Orange" except in combination with the word "Liberty."
Particular description of goods.—Orange Syrup Used in Making Soft Drinks.
Claims use since Mar. 3, 1921.

Ser. No. 145,550. (CLASS 10. FERTILIZERS.) A. H. CARTER, LIMITED, Bristol, England. Filed Apr. 1, 1921.

Fertabs

Particular description of goods.—Artificial Fertilizers.
Claims use since February, 1920.

Ser. No. 145,740. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CALIFORNIA GRAPE PRODUCTS CO., Ukiah, Calif. Filed Apr. 5, 1921.

CALIGRAPO

Particular description of goods.—Non-Alcoholic, Non-Cereal Maltless Beverage Sold as a Soft Drink and Syrup for Making the Same.
Claims use since Dec. 1, 1920.

Ser. No. 145,751. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. PAUL MATTHEWS, Baltimore, Md. Filed Apr. 5, 1921.

CLOVERFIELD

Particular description of goods.—Butter, Lard, and Sausage.
Claims use since Oct. 1, 1920.

Ser. No. 145,867. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) OSCAR RICHARD ALTWEIN, Asheville, N. C. Filed Apr. 8, 1921.

"MASTER"

Particular description of goods.—Hair-Straightening Combs.
Claims use since Apr. 4, 1921.

Ser. No. 146,125. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE J. E. MERGOTT COMPANY, Newark, N. J. Filed Apr. 13, 1921.

JEMCo

Particular description of goods.—Bag-Frames, Purse Frames, Pocketbook-Frames.
Claims use since Mar. 10, 1921.

Ser. No. 146,209. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) L. GOLDSMITH & SON, Newark, N. J. Filed Apr. 15, 1921.

ORDERLEE

Particular description of goods.—Trunks.
Claims use since Jan. 10, 1921.

Ser. No. 146,561. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CLARENCE PAUL JOHNSON, Sheldon, Ill. Filed Apr. 22, 1921.



Particular description of goods.—A Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Oct. 1, 1920.

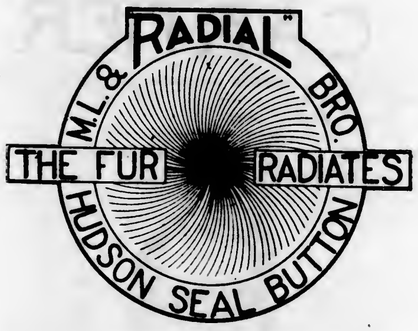
Ser. No. 146,570. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MUTUAL ORANGE DISTRIBUTORS, Redlands, Calif. Filed Apr. 22, 1921.

SUNFLOWER



Particular description of goods.—Fresh Citrus Fruits
Claims use since 1896.

Ser. No. 146,638. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MARVIN LICHTENSTEIN & BRO., New York, N. Y. Filed Apr. 23, 1921.



The words "The Fur Radiates, Hudson Seal Buttons" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Fur Buttons.
Claims use since Jan. 2, 1920.

Ser. No. 146,694. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DRESDEN BAKING POWDER COMPANY, Zanesville, Ohio. Filed Apr. 25, 1921. Under ten-year proviso.

DRESDEN

Particular description of goods.—Baking-Powder.
Claims use since about May 1, 1890.

Ser. No. 146,764. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) S. P. HITE COMPANY, INC., Roanoke, Va. Filed Apr. 26, 1921. Under ten-year proviso.

Hite's

Particular description of goods.—Ammonia, Asthma and Catarrh Powders, Bay-Rum, Cold-Cream, Cologne, Corn-Plasters, Cough-Syrup, Camphor-Ice, Eye-Water, Ecsema-Ointment, Hair-Vigor, Headache-Tablets, Kidney-Pills, Liver-Pills, Liquid Laxative, Laxative Quinin Cold-Tablets; Remedies for Aching Limbs, Summer Complaint, Toothache, Cramps, Coughs, Colds, Sore Throat, Cuts, Bruises, Burns, Sprains, and Colic; Petrolatum, Perfumed Petrolatum, Pile-Ointment, Pomade; Salve as a Remedy for Carbuncles, Felons, and Risings; Salve as a Remedy for Colds, Croupy Tendency, Sore Throat, and Threatened Congestion of the Lungs; Talcum Powder, Toothache-Wax, Tooth-Powder, Toothache-Drops, Worm-Syrup, White Liniment.
Claims use since 1871.

Ser. No. 146,853. (CLASS 38. PRINTS AND PUBLICATIONS.) THE UNITED ELECTRIC COMPANY, Canton, Ohio. Filed Apr. 27, 1921.

THE RED BAND

Particular description of goods.—A Monthly Publication.
Claims use since March, 1921.

Ser. No. 146,880. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Hoof-Pads Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,887. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.



Particular description of goods.—Hoof-Pads Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,894. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Hoof-Pads Made Partly or Wholly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 147,027. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) KEN-WEL SPORTING GOODS CO., Gloversville, N. Y. Filed Apr. 30, 1921.



Particular description of goods.—Athletic and Sporting Goods Including Baseball Gloves and Mitts, Baseball-Bases, Boxing-Gloves, Handball-Gloves, Ankle-Supports, Knee-Guards, Wristbands, Rugby Footballs, Soccer-Footballs, Basket-Balls, Volley-Balls, Medicine-Balls, Striking-Bags, Striking-Bag Gloves, Wrestling-Pads.
Claims use since Jan. 15, 1920.

Ser. No. 147,033. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LABORATORIUM "Leo," Dr. Phil, OTTOMAR HEINSIUS v. MAYENBURG, Dresden, Germany. Filed Apr. 30, 1921.

Leomint

Particular description of goods.—Tooth-Pastes, Tooth-Powder, and Tooth-Wash.
Claims use since about December, 1920.

Ser. No. 147,048. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLIN C. RALSTIN, Stillwater, Okla. Filed Apr. 30, 1921.



All wording appearing on the drawing, with the exception of the words "Colin C. Ralstin," being disclaimed apart from the mark as shown.
Particular description of goods.—An Ointment or Salve for the External Treatment of Sores, Burns, Itch.
Claims use since Apr. 1, 1921.

Ser. No. 147,097. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DORBOS BROS. INCORPORATED, New York, N. Y. Filed May 2, 1921.



The trade-mark as drawn is lined, and such lines represent shading only.

Particular description of goods.—Veils and Veiling Piece Goods.

Claims use since December, 1918.

Ser. No. 147,145. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WADDINGTON CONDENSED MILK CO., INC., Waddington, N. Y. Filed May 2, 1921.

SURETY

Particular description of goods.—Unsweetened Evaporated Milk.

Claims use since July 23, 1918.

Ser. No. 147,199. (CLASS 32. FURNITURE AND UPHOLSTERY.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed May 4, 1921.

PRESTO

Consisting of the word "Presto."

Particular description of goods.—Self-Acting Spring Shade-Roller.

Claims use since about Sept. 1, 1915.

Ser. No. 147,200. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERSTATE SHADE CLOTH CO., Hoboken, N. J. Filed May 4, 1921.

Dura-Tex

Consisting of the words "Dura-Tex."

Particular description of goods.—Hand-Painted Shade-Cloth.

Claims use since about May 1, 1919.

Ser. No. 147,282. (CLASS 38. PRINTS AND PUBLICATIONS.) NEWTON A. DUKES, New York, N. Y. Filed May 6, 1921.

Three-in-One

Particular description of goods.—A Series of Text-Books.

Claims use since Apr. 29, 1921.

Ser. No. 147,334. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) BISSELL CARPET SWEEPER CO., Grand Rapids, Mich. Filed May 7, 1921.

LITTLE DAISY

Particular description of goods.—Toy Carpet-Sweepers.

Claims use since May 11, 1897.

Ser. No. 147,350. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE KLENS-ZOL CO., Glenn, Mich. Filed May 7, 1921.

KLENS-ZOL

Particular description of goods.—Automobile and Furniture Cleaner and Polish.

Claims use since February, 1920.

Ser. No. 147,374. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SCHUTTER JOHNSON CANDY CO., Chicago, Ill. Filed May 7, 1921.

CHERRY PLANETS

Particular description of goods.—Candy.

Claims use since January, 1921.

Ser. No. 147,502. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) CROSS ROD & TACKLE CO., Lynn, Mass. Filed May 10, 1921.

BAMFAR

Particular description of goods.—Shafts for Golf-Clubs.

Claims use since about Apr. 1, 1921.

Ser. No. 147,536. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) TUSULINE COMPANY, Akron, Ohio. Filed May 10, 1921.

TUSULINE



No claim is made to the words "Trade Mark" and "Patented" apart from the mark as shown in the drawing.

Particular description of goods.—A Compound in the Nature of a Paint Adapted to be Coated on Articles and Structures of Wood and Masonry to Preserve, Harden, and Waterproof Such Articles and Structures.

Claims use since Apr. 20, 1921.

Ser. No. 147,601. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed May 12, 1921.

KLIX

Particular description of goods.—Snap-Fasteners.

Claims use since Mar. 31, 1921.

Ser. No. 147,602. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa. Filed May 12, 1921.



Particular description of goods.—Snap-Fasteners.

Claims use since Mar. 31, 1921.

Ser. No. 147,645. (CLASS 2. RECEPTACLES.) TAKE-A-TIK CO., Bridgeton, N. J. Filed May 12, 1921.

"TAKE-A-TIK"

Particular description of goods.—Car or Other Ticket Holders of Metal or Similar Material.

Claims use since Apr. 27, 1921.

Ser. No. 147,733. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE OWL SPECIALTY CO., Paterson, N. J. Filed May 14, 1921.

"SAMSON"



Particular description of goods.—Dress and Skirt Belting and Dress and Skirt Bindings.

Claims use since Mar. 15, 1921.

Ser. No. 147,757. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) ARMOR OIL & CHEMICAL CO., Kansas City, Mo. Filed May 16, 1921.

ARMOR

Particular description of goods.—Ready-Mixed Paints.

Claims use since Sept. 1, 1920.

Ser. No. 147,758. (CLASS 15. OILS AND GREASES.) ARMOR OIL & CHEMICAL CO., Kansas City, Mo. Filed May 16, 1921.

ARMOR

Particular description of goods.—Lubricating Oils and Greases Chiefly Used in Internal-Combustion Engines.

Claims use since February, 1918.

Ser. No. 147,860. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) CHRISTIE FILM COMPANY, INC., Los Angeles, Calif. Filed May 18, 1921.

VANITY

Particular description of goods.—Motion-Pictures.

Claims use since Aug. 12, 1920.

Ser. No. 147,870. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) EDUCATIONAL FILMS CORPORATION OF AMERICA, New York, N. Y. Filed May 18, 1921.

MERMAID

Particular description of goods.—Motion-Pictures.
Claims use since May 15, 1920.

Ser. No. 147,912. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) BRITISH AMERICA PAINT COMPANY, LIMITED, Victoria, British Columbia, Canada. Filed May 19, 1921.

SHINGOLEEN
"A Bapco Product"

No claim is made to the word "Product" apart from the mark shown.
Particular description of goods.—Shingle-Stain, Ready-Mixed Paint, Varnish.
Claims use since on or about Mar. 7, 1920.

Ser. No. 147,956. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JULIA DONNELLY, New York, N. Y. Filed May 20, 1921.

VI-TABS

Particular description of goods.—Chocolate Candies.
Claims use since May 16, 1920.

Ser. No. 148,019. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROBERT P. DICKS, New York, N. Y. Filed May 21, 1921.

DIPIT

Particular description of goods.—For Dyeing, Coloring, and Tinting Compositions, Particularly in Paste or Liquid Form.
Claims use since on or about May 5, 1921.

Ser. No. 148,028. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED W. LOWRIE, Hartford, Conn. Filed May 21, 1921.

SUN & MOON

Particular description of goods.—Anointing Oil and Ointment for External Use for the Treatment of Rheumatism, Neuritis, Lameness, Hardening of Arteries and Nerves, Stiff Joints and Cords, Sore Muscles, Bruises, Sunburn, Irritations of the Skin, &c., and for Internal Purposes for the Treatment of Coughs, Colds, Intestinal Troubles, &c.
Claims use since on or about Oct. 11, 1906.

Ser. No. 148,049. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AULTMAN INC., Milwaukee, Wis. Filed May 23, 1921.

SEE AULTMAN FIRST

Particular description of goods.—Signs of a Structural or Mechanical Nature.
Claims use since Apr. 1, 1914.

Ser. No. 148,059. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE CRAZY WELL WATER COMPANY OF MINERAL WELLS, Mineral Wells, Tex. Filed May 23, 1921.

CRAZY LAX

Particular description of goods.—Concentrated Natural Mineral Water.
Claims use since Jan. 1, 1916.

Ser. No. 148,078. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM A. KIMBELL, Atlanta, Ga. Filed May 23, 1921.

SUPER-ANODYNE

The word "Super" and also the word "Anodyne" are disclaimed except as displayed in the mark shown.
Particular description of goods.—Preparation for the Relief of Headache, Neuralgia, Rheumatic and other Aches and Pains, and for Colds, in Powder and Tablet Form.
Claims use since on or about Oct. 1, 1920.

Ser. No. 148,127. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. CHARLES D. CAMP COMPANY, Chicago, Ill. Filed May 24, 1921.

ALEX-CO-ALL

Particular description of goods.—An Emulsifier of Essential Oils.
Claims use since Sept. 15, 1920.

Ser. No. 148,190. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) ACME BELTING COMPANY, Boston, Mass. Filed May 25, 1921.

ACME

Particular description of goods.—Oil-Gages.
Claims use since Apr. 21, 1921.

Ser. No. 148,193. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ADLERIKA COMPANY, St. Paul, Minn. Filed May 25, 1921.

DA-RU

Particular description of goods.—A Tablet Form of Cathartic and Laxative Preparation for Stomach, Bowels, and Liver Disturbances Due to Deficient Elimination.
Claims use since Feb. 1, 1921.

Ser. No. 148,198. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HENRY BRUCKNER, New York, N. Y. Filed May 25, 1921.

U-NO-US

Consisting of the word "U-No-Us."
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverages Sold as Soft Drinks—viz., Birch-Beer, Root-Beer, Artificial Raspberry, Sarsaparilla, Lemon-Soda, Ginger-Ale, and Artificial Cream-Soda.
Claims use since Jan. 1, 1896.

Ser. No. 148,200. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921.

IMPERIAL

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Textile Waterproof Wagon-Covers.
Claims use since 1910.

Ser. No. 148,201. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921.

EUREKA

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Textile Waterproof Wagon-Covers.
Claims use since 1910.

Ser. No. 148,203. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921.

LONE STAR

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Textile Waterproof Wagon-Covers.
Claims use since 1910.

Ser. No. 148,204. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921.

DIXIE

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Textile Waterproof Wagon-Covers.
Claims use since 1910.

Ser. No. 148,211. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921.

REGAL

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Textile Waterproof Wagon-Covers.
Claims use since 1910.

Ser. No. 148,242. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SUREGROW HAIR TONIC COMPANY, New York, N. Y. Filed May 25, 1921.

SUREGROW HAIR TONIC



No claim is made to the words "Hair Tonic" apart from the mark shown in the drawing. The portrait as shown is fanciful.
Particular description of goods.—Hair-Tonic.
Claims use since Apr. 15, 1921.

Ser. No. 148,316. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CALCO CHEMICAL COMPANY, Boundbrook, N. J. Filed May 27, 1921.

CALOSOL

Particular description of goods.—A Medicinal Preparation for Use as an External Disinfectant, Mouth-Wash, Throat-Gargle.
Claims use since about May 17, 1921.

Ser. No. 148,431. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE CLYDE COLLINS COMPANY, INC., Memphis, Tenn. Filed May 31, 1921.

SEX-CO

Particular description of goods.—Aphrodisiac.
Claims use since about Jan. 1, 1921.

Ser. No. 148,465. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) VAN ROUGE CO. INC., Minneapolis, Minn. Filed May 31, 1921.

Van-  Rouge

The picture is purely fanciful and not a portrait of a living person.
Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Beverage Sold as a Soft Drink and Syrup for Making the Same.
Claims use since about Aug. 1, 1919.

Ser. No. 148,468. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) R. T. WEBSB, Hearne, Tex. Filed May 31, 1921.

OLIVE-ALL

Particular description of goods.—A Preparation for the Treatment of Dandruff and the Scalp.
Claims use since Apr. 15, 1921.

Ser. No. 148,470. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WANDER COMPANY, Chicago, Ill. Filed May 31, 1921.

CRISTOLAX

Particular description of goods.—Crystalline Malt Extract with Pure Liquid Paraffin, a Nutrient and Laxative Combination.
Claims use since Jan. 1, 1921.

Ser. No. 148,514. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) DR. SWETT ROOT BEER INC., Boston, Mass. Filed June 1, 1921.



Particular description of goods.—Root-Beer.
Claims use since May 6, 1920.

Ser. No. 148,521. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN WILSON, Sacramento, Calif. Filed June 1, 1921.

SOAPY 

SHINA

No claim being made to the words "Soapy Shina" apart from the trade mark as shown.
Particular description of goods.—Soft-Soap Cleanser.
Claims use since Apr. 21, 1915.

Ser. No. 148,544. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MASTODON FILMS INC., New York, N. Y. Filed June 2, 1921.



Particular description of goods.—Motion-Picture Films and Films Used for Stereopticon Projections.
Claims use since May 21, 1921.

Ser. No. 148,564. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NURO SILVER CO., Burkeville, Va. Filed June 2, 1921.

NURO

Particular description of goods.—A Cleansing Preparation for Silverware, Cut Glass, Window-Glass, Mirrors, Tiles, Enamels, China, Gold, Jewelry, and Diamonds.
Claims use since May 23, 1921.

Ser. No. 148,568. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FREDERICK S. WILSON, Chicago, Ill. Filed June 2, 1921.

Chema-Alaxite

Particular description of goods.—A Liquid Preparation for the Reproduction and Preservation of Typewriter-Platens.
Claims use since May 1, 1920.

Ser. No. 148,727. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FABLES PICTURES, INC., New York, N. Y. Filed June 6, 1921.

ÆSOP's Fables

Particular description of goods.—Animated Cartoons, the Same Being Motion-Picture Films.
Claims use since Oct. 22, 1920.

Ser. No. 148,728. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) FABLES PICTURES, INC., New York, N. Y. Filed June 6, 1921.



Particular description of goods.—Animated Cartoons, the Same Being Motion-Picture Films.
Claims use since Oct. 22, 1920.

Ser. No. 148,737. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WILLIAM M. HOFFMANNS, Philadelphia, Pa. Filed June 6, 1921.

Rag-Rag.

Wm. M. Hoffmanns,

Rug.

The words "Rag-Rag" and "Rug" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Rag Rugs and Rag Carpets.
Claims use since on or about Mar. 1, 1921.

Ser. No. 148,793. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JOHN BOYLE & COMPANY, INCORPORATED, New York, N. Y. Filed June 7, 1921.

GULF STREAM

Particular description of goods.—Bleached, Unbleached, Dyed, Striped, and Printed Cotton Ducks and Drills; Awning-Stripes; Bleached, Unbleached, Dyed, Striped, and Printed Muslins and Calicoes; Filter-Cloths Made of Cotton, Linen, Wool, and Silk; Cottonades, Cotton Damask in the Piece.
Claims use since April, 1901.

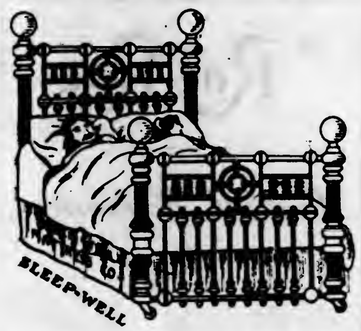
Ser. No. 148,898. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOUTHWESTERN PHARMACAL COMPANY, Dallas, Tex. Filed June 9, 1921.

Benzyl-Sedal

Particular description of goods.—Antispasmodic and Sedative Preparations.
Claims use since about Mar. 1, 1921.

Ser. No. 148,903. (CLASS 32. FURNITURE AND UPHOLSTERY.) SLEEP-WELL MATTRESS CO., Chicago, Ill. Filed June 9, 1921. Under ten-year proviso.

SLEEP-WELL



Particular description of goods.—Mattress.
Claims use since June 1, 1886.

Ser. No. 148,965. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) CHAS. RANDOLPH BOYD, San Francisco, Calif. Filed June 11, 1921.

LA TOSCA

Particular description of goods.—Complexion-Powder.
Claims use since April, 1916.

Ser. No. 148,969. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANLEY BIEGANOWSKI, Chicago, Ill. Filed June 11, 1921.

Cumbac

Particular description of goods.—Hair-Restorer.
Claims use since May 15, 1921.

Ser. No. 148,996. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GOHEEN CORPORATION, Wilmington, Del., and Newark, N. J. Filed June 11, 1921.

Surfalox

Particular description of goods.—Liquid Paint for Coating Plaster, Concrete, Stucco, and Masonry Surfaces to Render Same Alkali Resistant, Damp-Proof and Waterproof.
Claims use since Mar. 15, 1921.

Ser. No. 149,035. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) SERVICE STUDIOS, Chicago, Ill. Filed June 11, 1921.

SERVICE STUDIOS

Particular description of goods.—Theatrical Scenery and Window Backgrounds.
Claims use since May 3, 1921.

Ser. No. 149,045. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VINO MEDICAL CO., INC., New York, N. Y. Filed June 11, 1921.

TON-DIAB

Particular description of goods.—Tonic for Diabetics.
Claims use since May 1, 1921.

Ser. No. 149,125. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) SAMUEL COHEN, Philadelphia, Pa. Filed June 14, 1921.



Particular description of goods.—Motion and Still Picture Films.
Claims use since June 1, 1921.

Ser. No. 149,133. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed June 14, 1921.



Particular description of goods.—Flake-Graphite, Mica, and Soapstone.
Claims use since about Apr. 1, 1920.

Ser. No. 149,144. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE NARROW FABRIC CO., West Reading borough, near Reading, Pa. Filed June 14, 1921.



SILHOUETTE ELASTIC

The word "Elastic" is disclaimed apart from the mark as shown.
Particular description of goods.—Elastic Braids.
Claims use since May 23, 1921.

Ser. No. 149,161. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE W. T. WAGNER'S SONS CO., Cincinnati, Ohio. Filed June 14, 1921.

Li-mintha

Particular description of goods.—Non-Alcoholic, Malt-less, Minted Lime Beverage Sold as a Soft Drink.
Claims use since May 9, 1921.

Ser. No. 149,170. (CLASS 5. ADHESIVES.) CENTRAL ADHESIVE COMPANY, Chicago, Ill. Filed June 15, 1921.

CENCO

Particular description of goods.—A Vegetable Glue and Paste for Paper-Box Manufacturing, Bookbinding, and all other Paper Industrial Purposes.
Claims use since Sept. 1, 1920.

Ser. No. 149,257. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) JULIUS WILE SONS & CO., New York, N. Y. Filed June 16, 1921.

WILWIN

Particular description of goods.—Elastic Webbing.
Claims use since Feb. 6, 1920.

Ser. No. 149,296. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WALTER E. STETSON, Somerville, Mass. Filed June 17, 1921. Under ten-year proviso.

WILLIAMS'

Particular description of goods.—Cotton Duck in the Piece.
Claims use since on or about Feb. 26, 1855.

Ser. No. 149,297. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) SPYROSEAL MANUFACTURING COMPANY, St. Louis, Mo. Filed June 17, 1921.

THERMO-SEAL

No claim is made to the representation of a piston-ring apart from the mark as shown in the drawing.
Particular description of goods.—Piston-Rings.
Claims use since Mar. 14, 1921.

Ser. No. 149,301. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) TURNER, HALSEY COMPANY, New York, N. Y. Filed June 17, 1921.

HARLOMOOR

Consisting of the coined word "Harlomoor."
Particular description of goods.—Various Grades of Cotton Textiles in the Piece, Bleached, Dyed, and Printed—Namely, Twills, Drills, Ducks, Sheetings, Print Cloths, and Satins.
Claims use since on or about July 1, 1909.

Ser. No. 149,581. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) RODOLFO FLORES, Sedalia, Mo. Filed June 24, 1921.

Pulvisoap

The word "Soap" is disclaimed apart from the mark as shown.

Particular description of goods.—Powder Soap for Affections of the Skin, Medicinal Uses Only.

Claims use since Jan. 1, 1920.

Ser. No. 149,729. (CLASS 38. PRINTS AND PUBLICATIONS.) BENJAMIN WILK, New York, N. Y. Filed June 27, 1921.

SUPPLY & DEMAND

The light cross-lines in the drawing represent shading.

Particular description of goods.—Monthly Publications.

Claims use since June 2, 1921.

Ser. No. 149,739. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) HENRY EVANS, Washington, D. C. Filed June 28, 1921.

KASOLINE

Particular description of goods.—A Solution for Cleaning Kid Gloves and other Wearing-Apparel.

Claims use since 1910.

Ser. No. 149,757. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) H. KELLOGG & SONS, Philadelphia, Pa. Filed June 28, 1921.

THE SIGN OF QUALITY KELLOGG'S

No claim being made to the words "The Sign of Quality" apart from the mark shown.

Particular description of goods.—Grape-Juice, Ginger-Ale, Sarsaparilla, Root-Beer, and Lemon-Soda.

Claims use since June, 1917.

Ser. No. 149,781. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIMONSON, ROGERS & JAEGER, INC., New York, N. Y. Filed June 28, 1921.

VIKING BRAND

The word "Brand" apart from the mark shown is hereby disclaimed.

Particular description of goods.—Linings in the Piece for Men's Wear.

Claims use since June 20, 1921.

Ser. No. 149,865. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) G. SIDENBERG & CO., New York, N. Y. Filed June 30, 1921. Under ten-year proviso.

FAVORITE

Particular description of goods.—Ruffings and Plaitings for Neckwear and Trimmings.

Claims use since 1870.

Ser. No. 149,913. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ELMER H. KING, Boston, Mass. Filed July 1, 1921.

THOROUGHBRED

Particular description of goods.—Woolen, Worsted, and Mohair Piece Goods and Piece Goods Made of a Combination of Two or More of Those Fibers.

Claims use since December, 1920.

Ser. No. 149,943. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE WILL CORPORATION, Rochester, N. Y. Filed July 1, 1921.

ION-O-METER

Particular description of goods.—Instruments Used for the Measurement of Hydrogen Ions.

Claims use since June 17, 1921.

Ser. No. 149,963. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MELVIN W. HEISS, New York, N. Y. Filed July 2, 1921.

POCKETCHIEFS

Particular description of goods.—Men's, Women's, and Children's Handkerchiefs of Linen, Silk and Linen, Silk, Silk and Cotton, or Cotton.

Claims use since June 27, 1921.

Ser. No. 150,023. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) JOHN PETERSON, Hoboken, N. J. Filed July 5, 1921.

LONG LIFE LUGGAGE

Particular description of goods.—Trunks.

Claims use since June 17, 1921.

Ser. No. 150,201. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) POLISHEEN MANUFACTURING COMPANY, Newport, R. I. Filed July 9, 1921.

Polisheen

Particular description of goods.—Automobile, Furniture, and Floor Polish, Floor-Wax, and Cleaning Compound.

Claims use since Apr. 26, 1920.

Ser. No. 150,285. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) OSTERWEIL BROS. INC., Newark, N. J. Filed July 12, 1921.

PAX-RITE

Particular description of goods.—Trunks.

Claims use since June 1, 1921.

Ser. No. 150,322. (CLASS 10. FERTILIZERS.) MONMOUTH COUNTY FARMERS' EXCHANGE, Freehold, N. J. Filed July 13, 1921.

Particular description of goods.—Commercial Fertilizers.

Claims use since May 15, 1908.

Ser. No. 150,453. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRANT S. KELLEY, INC., New York, N. Y. Filed July 16, 1921.

KELLEY-KLOTH

Particular description of goods.—Woolen Piece Goods.

Claims use since June 3, 1921.

Ser. No. 150,465. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE CO., Portland, Oreg. Filed July 16, 1921.

LIFE LINE

LARIAT

No claim being made to the exclusive use of the word "Lariat" apart from the mark shown in the drawing; trade-mark consisting of the words "Life Line Lariat."

Particular description of goods.—Lariat-Ropes.

Claims use since January, 1921.

Ser. No. 150,467. (CLASS 7. CORDAGE.) THE PORTLAND CORDAGE CO., Portland, Oreg. Filed July 16, 1921.

"RED THREAD"
TRANSMISSION
OF POWER ROPE

Consisting of the words "'Red Thread' Transmission of Power Rope," no claim being made to the exclusive use of the words "Transmission of Power Rope" apart from the mark as shown on the drawing.

Particular description of goods.—Transmission-Rope.

Claims use since September, 1905.

Ser. No. 150,504. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) E. R. BENSON MANUFACTURING CO., Portland, Me. Filed July 18, 1921.

"KNOK-TECTOR"

Particular description of goods.—Devices for Locating the Cause of Knocks or Sounds Produced by Defects in the Operating Mechanism of Automobiles or Other Mechanisms.
Claims use since Jan. 12, 1921.

Ser. No. 150,545. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LOS ANGELES ICE & COLD STORAGE COMPANY, Los Angeles, Calif. Filed July 18, 1921.

DORADO CLUB

Particular description of goods.—Maltless, Non-Cereal Beverages Containing Less Than One-Half of One Per Cent. Alcohol, by Volume, Sold as Soft Drinks—Namely, Lemon-Sour, Orange, Sarsaparilla, and Ginger-Ale.
Claims use since May 19, 1921.

Ser. No. 150,597. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 19, 1921.

Mafalda

Particular description of goods.—Woolen Piece Goods.
Claims use since June 15, 1921.

Ser. No. 150,598. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 19, 1921.

Yalta

Particular description of goods.—Woolen Piece Goods.
Claims use since June 15, 1921.

Ser. No. 150,599. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 19, 1921.

Strelna

Particular description of goods.—Woolen Piece Goods.
Claims use since June 15, 1921.

Ser. No. 150,600. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 19, 1921.

Nedda

Particular description of goods.—Woolen Piece Goods.
Claims use since June 15, 1921.

Ser. No. 150,602. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) FORSTMANN & HUFFMANN COMPANY, Passaic, N. J. Filed July 19, 1921.

Tonga Crepe

No right is asserted to the exclusive use of the word "Crepe" apart from the mark shown in the drawing.
Particular description of goods.—Woolen Piece Goods.
Claims use since June 15, 1921.

Ser. No. 150,629. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NEWBERRY & NICHOLS, New York, N. Y. Filed July 19, 1921.

CALODIAL

Particular description of goods.—Indicating-Thermometers.
Claims use since Mar. 1, 1921.

Ser. No. 150,631. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PARISTYLE NOVELTY CO. INC., New York, N. Y. Filed July 19, 1921.

Senorita

Particular description of goods.—Hair-Nets.
Claims use since about Apr. 20, 1921.

Ser. No. 150,644. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) VICTOR MONAGHAN COMPANY, Greenville, S. C. Filed July 19, 1921.

"MORE THAN A PLACE TO WORK" VICTOR MONAGHAN COMPANY

Particular description of goods.—Cotton Piece Goods.
Claims use since Nov. 12, 1920.

Ser. No. 150,661. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) HOPE WEBBING COMPANY, INC., Pawtucket, R. I. Filed July 20, 1921.

HOPE MAID

Particular description of goods.—Elastic Webbing.
Claims use since Dec. 9, 1920.

Ser. No. 150,685. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH KLAR, New York, N. Y. Filed July 20, 1921.

№ 300

Consisting of the abbreviation and numeral "No. 300."
Particular description of goods.—Hair-Nets.
Claims use since 1912.

Ser. No. 150,686. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH KLAR, New York, N. Y. Filed July 20, 1921.

№ 42

Consisting of the abbreviation and numeral "No. 42."
Particular description of goods.—Hair-Nets.
Claims use since 1910.

Ser. No. 150,687. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH KLAR, New York, N. Y. Filed July 20, 1921.

№ 41

Consisting of the abbreviation and numeral "No. 41."
Particular description of goods.—Hair-Nets.
Claims use since 1910.

Ser. No. 150,697. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MELBA MANUFACTURING COMPANY, Chicago, Ill. Filed July 20, 1921.

MELBA

Particular description of goods.—Hair-Nets.
Claims use since July 7, 1921.

Ser. No. 150,751. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH KLAR, New York, N. Y. Filed July 21, 1921.

№ 200

Consisting of the abbreviation and numeral "No. 200."
Particular description of goods.—Hair-Nets.
Claims use since 1912.

Ser. No. 150,752. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) ADOLPH KLAR, New York, N. Y. Filed July 21, 1921.

№ 43

Consisting of the abbreviation and numeral "No. 43."
Particular description of goods.—Hair-Nets.
Claims use since 1910.

Ser. No. 150,753. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KEYSTONE HAIR NET IMP. CORP., New York, N. Y. Filed July 21, 1921.

KEYSTONE

Consisting of the word "Keystone."
Particular description of goods.—Hair-Nets.
Claims use since July 5, 1921.

Ser. No. 150,759. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) MASTODON FILMS INC., New York, N. Y. Filed July 21, 1921.

TORCHY

Particular description of goods.—Motion-Picture Films and Films Used for Stereopticon Projections.
Claims use since May, 1920.

Ser. No. 150,816. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KEYSTONE HAIR NET IMP. CORP., New York, N. Y. Filed July 22, 1921.

AURNETTE

Consisting of the word "Aurnette."
Particular description of goods.—Hair-Nets.
Claims use since July 5, 1921.

Ser. No. 150,859. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HENRY GLASS & CO., New York, N. Y. Filed July 23, 1921.

LADYE PRIDE

Consisting of the words "Ladye Pride."
Particular description of goods.—Plain, Woven, and Printed Cotton Piece Goods.
Claims use since July 14, 1921.

Ser. No. 150,864. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed July 23, 1921.

RA-VEN

Particular description of goods.—Silks in the piece.
Claims use since June 18, 1921.

Ser. No. 150,867. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JANSEN & PRETZFELD, INC., New York, N. Y. Filed July 23, 1921.

AURIOLE

Particular description of goods.—Silks in the Piece.
Claims use since June 18, 1921.

Ser. No. 150,974. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) OMNIA IMPORT CORPORATION, New York, N. Y. Filed July 26, 1921.

Omnifilm.

Particular description of goods.—Moving-Picture Film.
Claims use since July 15, 1921.

Ser. No. 151,066. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) STATE OF NEW YORK, Saratoga Springs, N. Y. Filed July 28, 1921.

STATE SEAL

Particular description of goods.—Natural Mineral Water.
Claims use since on or about June 14, 1921.

Ser. No. 151,274. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE INDEPENDENT BREWERIES COMPANY, St. Louis, Mo. Filed Aug. 2, 1921.

I.B.C

Particular description of goods.—Root-Beer.
Claims use since June 1, 1920.

Ser. No. 151,285. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) PENN RIVET CORPORATION, Philadelphia, Pa. Filed Aug. 2, 1921.

BO-PEEP

Particular description of goods.—Snap-Fasteners.
Claims use since about May 1, 1921.

Ser. No. 151,286. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) PENN RIVET CORPORATION, Philadelphia, Pa. Filed Aug. 2, 1921.

BO-PEEP

Particular description of goods.—Safety-Pins.
Claims use since about May 1, 1921.

Ser. No. 151,291. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE RUSSELL MANUFACTURING CO., Middletown, Conn. Filed Aug. 2, 1921.

DuBarry

Particular description of goods.—Dress-Belting.
Claims use since Feb. 14, 1920.

Ser. No. 151,292. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) SAN ANTONIO BEVERAGE SYRUP CO., San Antonio, Tex. Filed Aug. 2, 1921.

Chic-Chic

Particular description of goods.—A Malticss Non-Intoxicating Beverage and Syrup for Making the Same.
Claims use since July 20, 1921.

Ser. No. 151,375. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) PENN RIVET CORPORATION, Philadelphia, Pa. Filed Aug. 4, 1921.

BO-PEEP

Particular description of goods.—Snap-Fasteners.
Claims use since about May 1, 1921.

Ser. No. 151,376. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) PENN RIVET CORPORATION, Philadelphia, Pa. Filed Aug. 4, 1921.

BO-PEEP

Particular description of goods.—Safety-Pins.
Claims use since about May 1, 1921.

Ser. No. 151,384. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

BOONE

Particular description of goods.—Cotton-Batting.
Claims use since Sept. 9, 1878.

Ser. No. 151,385. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

MOUNTAIN MIST

Particular description of goods.—Cotton-Batting.
Claims use since Apr. 30, 1909.

Ser. No. 151,386. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

GOLIATH

Particular description of goods.—Cotton-Batting.
Claims use since Feb. 25, 1902.

Ser. No. 151,389. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

ROOKWOOD

Particular description of goods.—Cotton-Batting.
Claims use since Jan. 5, 1900.

Ser. No. 151,390. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

SHAWNEE

Particular description of goods.—Cotton-Batting.
Claims use since June 1, 1898.

Ser. No. 151,391. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

TRUE BLUE

Particular description of goods.—Cotton-Batting.
Claims use since Jan. 18, 1915.

Ser. No. 151,392. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

CENTURY

Particular description of goods.—Cotton-Batting.
Claims use since Apr. 7, 1903.

Ser. No. 151,393. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

VICTORIA

Particular description of goods.—Cotton-Batting.
Claims use since June 20, 1888.

Ser. No. 151,394. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

WANITA

Particular description of goods.—Cotton-Batting.
Claims use since May 15, 1886.

Ser. No. 151,395. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

ECONOMY

Particular description of goods.—Cotton-Batting.
Claims use since Mar. 4, 1889.

Ser. No. 151,396. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

GOVERNOR

Particular description of goods.—Cotton-Batting.
Claims use since June 6, 1877.

Ser. No. 151,397. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

MACKINAW

Particular description of goods.—Cotton-Batting.
Claims use since July 10, 1879.

Ser. No. 151,398. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

PARAGON

Particular description of goods.—Cotton-Batting.
Claims use since Sept. 7, 1875.

Ser. No. 151,399. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

PEARL

Particular description of goods.—Cotton-Batting.
Claims use since May 6, 1874.

Ser. No. 151,400. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

RIVAL

Particular description of goods.—Cotton-Batting.
Claims use since Aug. 15, 1888.

Ser. No. 151,401. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

STERLING

Particular description of goods.—Cotton-Batting.
Claims use since Oct. 27, 1892.

Ser. No. 151,402. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

SUCCESS

Particular description of goods.—Cotton-Batting.
Claims use since June 21, 1890.

Ser. No. 151,403. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

SAMSON

Particular description of goods.—Cotton-Batting.
Claims use since Aug. 7, 1902.

Ser. No. 151,404. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

CRICKET

Particular description of goods.—Cotton-Batting.
Claims use since July 11, 1903.

Ser. No. 151,405. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

MOONLIGHT

Particular description of goods.—Cotton-Batting.
Claims use since Feb. 26, 1913.

Ser. No. 151,406. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

EVERY DAY

Particular description of goods.—Cotton-Batting.
Claims use since Apr. 9, 1903.

Ser. No. 151,412. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

WHITE ROSE

Particular description of goods.—Cotton-Batting.
Claims use since May 6, 1874.

Ser. No. 151,416. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

CRUSADER

Particular description of goods.—Cotton-Batting.
Claims use since May 15, 1916.

Ser. No. 151,417. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

Ruby

Particular description of goods.—Cotton-Batting.
Claims use since Apr. 14, 1883.

Ser. No. 151,419. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

SAPPHIRE

Particular description of goods.—Cotton-Batting.
Claims use since June 4, 1901.

Ser. No. 151,420. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

STEAMBOAT

Particular description of goods.—Cotton-Batting.
Claims use since Dec. 15, 1882.

Ser. No. 151,421. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

PRINCESS

Particular description of goods.—Cotton-Batting.
Claims use since Apr. 23, 1897.

Ser. No. 151,422. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

OCEAN

Particular description of goods.—Cotton-Batting.
Claims use since Feb. 25, 1902.

Ser. No. 151,426. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

EROLINE

Particular description of goods.—Cotton-Batting, Particularly Glazed Cotton Wadding.
Claims use since Feb. 1, 1872.

Ser. No. 151,427. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

EXTRA

Particular description of goods.—Cotton-Batting, Particularly Glazed Cotton Wadding.
Claims use since Aug. 1, 1872.

Ser. No. 151,431. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Under ten-year proviso.

BB

Particular description of goods.—Cotton-Batting, Particularly Glazed Cotton Wadding.
Claims use since Apr. 8, 1878.

Ser. No. 151,433. (CLASS 1. RAW OR PARTLY-PREPARED MATEBIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921.

BUCKEYE

Particular description of goods.—Cotton-Batting, Particularly Glazed Cotton Wadding.
Claims use since Nov. 1, 1899.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 13, 1921.

146,553. CLOVER-SEED. ALABAMA ANNUAL WHITE SWEET CLOVER SEED GROWERS ASSOCIATION INC., Newbern, Ala.
Filed April 7, 1921. Serial No. 145,811. PUBLISHED JUNE 7, 1921.

146,554. PAINT THAT IS USED TO ADVANTAGE ON SURFACES EXPOSED TO HEAT. AMERICAN CHEMICAL PAINT COMPANY, Philadelphia, Pa.
Filed February 8, 1921. Serial No. 143,811. PUBLISHED JUNE 7, 1921.

146,555. MAGNET-WIRES. BELDEN MANUFACTURING COMPANY, Chicago, Ill.
Filed March 25, 1921. Serial No. 145,201. PUBLISHED MAY 17, 1921.

146,556. RUBBER-COVERED ELECTRICAL CONDUCTORS. BELDEN MANUFACTURING COMPANY, Chicago, Ill.
Filed March 25, 1921. Serial No. 145,202. PUBLISHED MAY 17, 1921.

146,557. SILK SHIRTINGS IN THE PIECE. M. BORNSTEIN & SONS, Paterson, N. J.
Filed February 11, 1921. Serial No. 143,425. PUBLISHED MAY 24, 1921.

146,558. SILK SHIRTINGS IN THE PIECE. M. BORNSTEIN & SONS, Paterson, N. J.
Filed February 11, 1921. Serial No. 143,426. PUBLISHED MAY 24, 1921.

146,559. MANUFACTURED LEATHER FOR VEHICLE-TOPS. THE BRIDGEPORT COACH LACE CO., Bridgeport, Conn.
Filed November 26, 1920. Serial No. 140,161. PUBLISHED JUNE 7, 1921.

146,560. LAUNDRY-RECEPTACLES, SUCH AS BOXES, BAGS, AND THE LIKE. THE CHALMETTE LAUNDRY CO. LTD., New Orleans, La.
Filed October 21, 1919. Serial No. 124,043. PUBLISHED MARCH 1, 1921.

146,561. CERTAIN NAMED COMPOSITION FLOORINGS AND THE MINERAL COMPOSITIONS FOR USE IN MAKING SUCH FLOORING. CHENEY & CO., New York, N. Y.
Filed December 27, 1920. Serial No. 141,515. PUBLISHED JUNE 7, 1921.

146,562. PROTECTIVE PAINT FOR IRON, STEEL, AND OTHER METALS. CHIPMAN CHEMICAL ENGINEERING CO., INC., New York, N. Y.
Filed February 14, 1921. Serial No. 143,539. PUBLISHED JUNE 7, 1921.

146,563. PROTECTIVE PAINT FOR IRON, STEEL, AND OTHER METALS. CHIPMAN CHEMICAL ENGINEERING CO., INC., New York, N. Y.
Filed February 14, 1921. Serial No. 143,540. PUBLISHED JUNE 7, 1921.

146,564. CANDY. CURTISS CANDY CO., Chicago, Ill.
Filed April 7, 1919. Serial No. 117,221. PUBLISHED MAY 24, 1921.

146,565. COMBINED TANK AND CARBURETER FOR USE WITH INTERNAL-COMBUSTION ENGINES. HARRY DALTON, Sr., Philadelphia, Pa.
Filed December 23, 1920. Serial No. 141,456. PUBLISHED MAY 17, 1921.

146,566. CERTAIN NAMED PAINTS, ENAMELS, WOOD-STAINS, AND VARNISHES USED ON WOOD, METAL, PLASTER, &C. DEVOE & RAYNOLDS CO. INC., New York, N. Y.
Filed February 4, 1921. Serial No. 143,163. PUBLISHED JUNE 7, 1921.

146,567. LEATHER. THE JOSEPH N. EISENDRATH COMPANY, Chicago, Ill.
Filed April 11, 1921. Serial No. 146,002. PUBLISHED JUNE 7, 1921.

146,568. MAGNETO-GENERATORS, ELECTRIC SWITCHES, AND ELECTRIC CONTACT DEVICES. THE ELECTRIC TACHOMETER CORPORATION, Philadelphia, Pa.
Filed March 30, 1921. Serial No. 145,439. PUBLISHED MAY 17, 1921.

146,569. RUBBER AND FABRIC PNEUMATIC TIRES FOR AUTOMOBILES. ALEXANDRE FAURE, New York, N. Y.
Filed May 11, 1920. Serial No. 132,300. PUBLISHED JUNE 7, 1921.

146,570. RELINERS, INSIDE TIRE-SLEEVES, AND OUTSIDE TIRE-SLEEVES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed January 6, 1920. Serial No. 126,853. PUBLISHED JUNE 7, 1921.

146,571. RELINERS, INSIDE TIRE-SLEEVES, AND OUTSIDE TIRE-SLEEVES MADE WHOLLY OR PARTLY OF RUBBER. THE FEDERAL RUBBER COMPANY, Cudahy, Wis.
Filed January 6, 1920. Serial No. 126,854. PUBLISHED JUNE 7, 1921.

146,572. RHEOSTATS. FOREST ELECTRIC CO., Newark, N. J.
Filed March 23, 1921. Serial No. 145,102. PUBLISHED MAY 17, 1921.

146,573. READING-GLASSES. FRANKLIN OPTICAL COMPANY, Indianapolis, Ind.
Filed January 28, 1921. Serial No. 142,878. PUBLISHED MAY 17, 1921.

146,574. STORAGE BATTERIES. LOUIS GLOSSTEIN, Wilkes-Barre, Pa.
Filed April 1, 1921. Serial No. 145,563. PUBLISHED MAY 17, 1921.

146,575. PENCIL-SHARPENERS. GEORGE B. GRAFF COMPANY, Somerville, Mass.
Filed March 2, 1921. Serial No. 144,229. PUBLISHED MAY 17, 1921.

146,576. FOUNTAIN-PENS. SAMUEL A. HARRIS, New York, N. Y.
Filed March 25, 1921. Serial No. 145,209. PUBLISHED MAY 17, 1921.

146,577. CERTAIN NAMED SPRING SHOCK-ABSORBING DEVICES. THOMAS W. C. HARTMANN, Philadelphia, Pa.
Filed November 27, 1920. Serial No. 140,331. PUBLISHED JUNE 7, 1921.

146,578. CERTAIN ARTICLES OF CLOTHING. WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England.
Filed June 30, 1919. Serial No. 120,111. PUBLISHED MAY 24, 1921.

146,579. TOOTHPICKS. INTERNATIONAL MFG. CO., Phillips, Me.
Filed September 29, 1920. Serial No. 137,732. PUBLISHED APRIL 5, 1921.

146,580. THREAD AND YARN. J. & P. COATS (R. I.) INC., Pawtucket, R. I.
Filed October 11, 1920. Serial No. 138,157. PUBLISHED JUNE 7, 1921.

146,581. CRUDE-OIL ENGINES. KAHLENBERG BROS. CO., Two Rivers, Wis.
Filed December 21, 1920. Serial No. 141,378. PUBLISHED MAY 17, 1921.

146,582. FURNACES, HEATERS, AND BOILERS EQUIPPED WITH FUEL-ECONOMIZERS. ARTHUR J. LA FAY, Toronto, Ontario, Canada.
Filed January 25, 1919. Serial No. 115,425. PUBLISHED MAY 24, 1921.

146,583. CERTAIN ARTICLES OF CLOTHING. LIBERTY & CO. LIMITED, London, England.
Filed September 10, 1919. Serial No. 122,542. PUBLISHED MAY 24, 1921.

146,584. ELECTRIC ART LIGHTING FIXTURES. LINCOLN MANUFACTURING COMPANY, Detroit, Mich.
Filed March 30, 1921. Serial No. 145,465. PUBLISHED MAY 17, 1921.

146,585. MANURE-SPREADERS, STRAW-SPREADERS, FEED-GRINDERS, AND MANURE-LOADERS. THE LITCHFIELD MANUFACTURING COMPANY, Waterloo, Iowa.
Filed December 29, 1920. Serial No. 141,637. PUBLISHED MAY 17, 1921.

146,586. LUMBER. WILLIAM M. LLOYD COMPANY, Philadelphia, Pa.
Filed January 6, 1921. Serial No. 141,910. PUBLISHED JUNE 7, 1921.

146,587. ARCH-SUPPORTERS AND BUNION-PROTECTORS. LYNN RUBBER MANUFACTURING COMPANY, Warren, R. I.
Filed September 18, 1919. Serial No. 122,841. PUBLISHED APRIL 19, 1921.

146,588. MOTION-PICTURES. EDMOND LYSLE, New York, N. Y.
Filed November 18, 1919. Serial No. 125,056. PUBLISHED MAY 24, 1921.

146,589. FRESH POTATOES. M. J. MCIVER, Van Buren, Me.
Filed November 28, 1919. Serial No. 125,395. PUBLISHED MAY 24, 1921.

146,590. RAZORS. THE MANUFACTURING DEALERS COMPANY, Pittsburg, Kans., and Boston, Mass.
Filed February 7, 1921. Serial No. 143,284. PUBLISHED MAY 17, 1921.

146,591. LUBRICATING OILS AND GREASES. THE L. V. NICHOLAS OIL COMPANY, Omaha, Nebr.
Filed April 11, 1921. Serial No. 146,029. PUBLISHED JUNE 7, 1921.

146,592. WATERPROOFING COMPOUND FOR ROOFING AND CONSTRUCTION USE. JOSEPH P. O'CONNELL, Boston, Mass.
Filed December 15, 1919. Serial No. 126,055. PUBLISHED MAY 24, 1921.

146,593. STEEL LETTER-DIE PUNCHES. MARBURG BROTHERS, INC., New York, N. Y.
Filed January 10, 1921. Serial No. 142,022. PUBLISHED MAY 17, 1921.

146,594. PNEUMATIC RUBBER TIRES. THE PARKER TIRE & RUBBER COMPANY, Indianapolis, Ind.
Filed March 24, 1919. Serial No. 116,849. PUBLISHED MAY 24, 1921.

146,595. GRATINGS. WILLIAM L. PATTISON, Kansas City, Mo.
Filed March 5, 1921. Serial No. 144,349. PUBLISHED JUNE 7, 1921.

146,596. COMPRESSORS AND PUMPS AND ATTACHMENTS THEREFOR. PENNSYLVANIA PUMP & COMPRESSOR CO., Easton, Pa.
Filed December 21, 1920. Serial No. 141,389. PUBLISHED MAY 17, 1921.

146,597. CANNED FRUITS, VEGETABLES, AND FISH; CEREALS, SYRUPS, FLAVORING EXTRACTS, TEA, COFFEE, AND OTHER FOODS. THE BANNEY-DAVIS MERCANTILE COMPANY, Arkansas City, Kans.
Filed November 17, 1919. Serial No. 125,022. PUBLISHED MAY 24, 1921.

146,598. MEDICINE INDICATED FOR LUNG TROUBLES, TUBERCULOSIS, COUGHS, ASTHMA, AND AILMENTS OF THE BRONCHIAL ORGANS. WILHELM RATH, Niederteufen, Switzerland.
Filed August 6, 1920. Serial No. 135,862. PUBLISHED MAY 24, 1921.

146,599. LUBRICATING OILS AND GREASES AND AXLE-GREASE. RICHARDSON LUBRICATING COMPANY, Quincy, Ill.
Filed October 30, 1920. Serial No. 139,001. PUBLISHED JUNE 7, 1921.

146,600. FLY-KILLERS AND FLYCATCHERS. ALEXANDER E. ROCHFORT, San Francisco, Calif.
Filed April 16, 1921. Serial No. 146,272. PUBLISHED JUNE 7, 1921.

146,601. COTTON PIECE GOODS. A. M. ROBINSON COMPANY, Atlanta, Ga.
Filed January 26, 1921. Serial No. 142,808. PUBLISHED MAY 17, 1921.

146,602. DISINFECTANTS, INSECTICIDES, AND EXTERMINATORS. RUFUS J. RUGLEN, Detroit, Mich.
Filed November 2, 1920. Serial No. 139,094. PUBLISHED APRIL 12, 1921.

146,603. CERTAIN EDUCATIONAL DEVICE. ARTHUR L. RUNYAN, Omaha, Nebr.
Filed January 31, 1921. Serial No. 143,009. PUBLISHED MAY 17, 1921.

146,604. ELECTRIC TOASTERS. RUTENBER ELECTRIC CO., Marion, Ind.
Filed April 8, 1921. Serial No. 145,915. PUBLISHED MAY 17, 1921.

146,605. LUBRICATING OILS AND GREASES. SEABOARD AND INLAND OIL CORPORATION, Bloomsburg, Pa.
Filed October 30, 1920. Serial No. 139,004. PUBLISHED JUNE 7, 1921.

146,606. RUBBER HOT-WATER BAGS OR BOTTLES. THE SEAMLESS RUBBER COMPANY, INC., New Haven, Conn.
Filed September 20, 1920. Serial No. 137,392. PUBLISHED MAY 17, 1921.

146,607. CERTAIN CUTLERY, MACHINES, AND TOOLS. SHAPLEIGH HARDWARE COMPANY, St. Louis, Mo.
Filed August 16, 1920. Serial No. 136,170. PUBLISHED MAY 17, 1921.

146,608. ELECTRIC MOTORS AND CONTROLLERS THEREFOR. THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J., and New York, N. Y.
Filed February 18, 1921. Serial No. 143,789. PUBLISHED MAY 17, 1921.

146,609. NATURAL MINERAL WATER. STATE OF NEW YORK, Saratoga Springs, N. Y.
Filed February 14, 1921. Serial No. 143,566. PUBLISHED JUNE 7, 1921.

146,610. NATURAL MINERAL WATER. STATE OF NEW YORK, Saratoga Springs, N. Y.
Filed February 14, 1921. Serial No. 143,567. PUBLISHED JUNE 7, 1921.

146,611. NATURAL MINERAL WATER. STATE OF NEW YORK, Saratoga Springs, N. Y.
Filed February 14, 1921. Serial No. 143,568. PUBLISHED JUNE 7, 1921.

146,612. GOVERNORS, TRACTOR-HITCHES, AND SIPHON AIR-WASHERS FOR INTERNAL-COMBUSTION ENGINES. THE TRACTOR APPLIANCE COMPANY, New Holstein, Wis.
Filed December 27, 1920. Serial No. 141,538. PUBLISHED MAY 17, 1921.

146,613. METAL CASTINGS FOR DENTAL WORK, CONSISTING OF BRIDGES, CROWNS, INLAYS, AND PLATES. JASON H. TUTTLE, New York, N. Y.
Filed May 1, 1920. Serial No. 131,924. PUBLISHED MAY 17, 1921.

146,614. MOUTH-MIRRORS. UNION BROACH CO., INC., New York, N. Y.
Filed March 2, 1920. Serial No. 129,155. PUBLISHED MAY 3, 1921.

146,615. VARNISHES, FILLERS, STAINS, AND VARNISH-COATINGS. UNKEFER VARNISH COMPANY, Chicago, Ill.
Filed February 12, 1921. Serial No. 143,521. PUBLISHED JUNE 7, 1921.

146,616. RETORTS FOR DISTILLING WOOD. VALDOSTA RETORT CO., Valdosta, Ga.
Filed February 3, 1921. Serial No. 143,147. PUBLISHED MAY 17, 1921.

146,617. BULBS, PLANTS, SEED. M. VELDHUYZEN VAN ZANTEN & ZONEN, Lisse, Netherlands.
Filed February 23, 1921. Serial No. 143,927. PUBLISHED JUNE 7, 1921.

146,618. CERTAIN SHOE MACHINERY. VICTOR SHOE MACHINERY COMPANY, Lynn, Mass.
Filed January 12, 1921. Serial No. 142,186. PUBLISHED MAY 17, 1921.

146,619. BREAD. WARD BAKING COMPANY, New York, N. Y.
Filed February 10, 1921. Serial No. 143,416. PUBLISHED APRIL 26, 1921.

146,620. HARNESS. THE WATERLOO SADDLERY COMPANY, Waterloo, Iowa.
Filed October 12, 1920. Serial No. 138,245. PUBLISHED APRIL 12, 1921.

146,621. INHALERS. GUSTIN WELCH, Niagara Falls, N. Y.
Filed September 20, 1920. Serial No. 137,401. PUBLISHED APRIL 5, 1921.

146,622. PISTON-RINGS. THE WELEVER PISTON RING COMPANY, Toledo, Ohio.
Filed March 10, 1921. Serial No. 144,594. PUBLISHED JUNE 7, 1921.

146,623. CERTAIN MACHINERY. THE WELLMAN-SEAVER-MORGAN COMPANY, Cleveland, Ohio.
Filed June 19, 1919. Serial No. 119,784. PUBLISHED MAY 24, 1921.

146,624. CARBONIZING, ANNEALING, TEMPERING, AND MELTING POTS AND BOXES AND METAL CRUCIBLES FOR INDUSTRIAL PURPOSES. WEST MICHIGAN STEEL FOUNDRY CO., Muskegon, Mich.
Filed January 6, 1920. Serial No. 126,887. PUBLISHED JUNE 7, 1921.

146,625. FIBROUS GOLD FOR FILLING TEETH. THE S. S. WHITE DENTAL MANUFACTURING COMPANY, Philadelphia, Pa.
Filed September 24, 1920. Serial No. 137,597. PUBLISHED APRIL 26, 1921.

146,626. WILTON, BRUSSELS, AND PLUSH RUGS AND CARPETS. M. J. WHITTALL ASSOCIATES, Worcester, Mass.
Filed January 29, 1921. Serial No. 142,949. PUBLISHED MAY 17, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b).]

SEPTEMBER 13, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

146,627. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE AMERICAN AUTO TOP CO., Delphi, Ind. Filed May 12, 1921. Serial No. 147,592.

FAULTLESS

Particular description of goods.—Automobile-Tops.
Claims use since June 1, 1917.

146,628. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, Jersey City, N. J. Filed July 15, 1921. Serial No. 150,389.

JAMAICA

Particular description of goods.—Spool-Cotton, Sewing-Cotton, Thread, and Cotton Yarn.
Claims use since June, 1896.

146,629. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, Jersey City, N. J. Filed July 15, 1921. Serial No. 150,390.

GENEVA

Particular description of goods.—Spool-Cotton, Sewing Cotton, Thread, and Cotton Yarn.
Claims use since 1897.

146,630. (CLASS 43. THREAD AND YARN.) THE AMERICAN THREAD COMPANY, Jersey City, N. J. Filed July 15, 1921. Serial No. 150,393.

SUISSE

Particular description of goods.—Spool-Cotton, Sewing-Cotton, Thread, and Cotton Yarn.
Claims use since December, 1905.

146,631. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE ANTHONY COMPANY, Long Island City, N. Y. Filed Sept. 1, 1920. Serial No. 136,696.

ANTHONY

Particular description of goods.—Certain Named Burners, Furnaces, Forges, Ovens, and Torches.
Claims use since May 1, 1910.

146,632. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AQUAZONE LABORATORIES, INC., Los Angeles, Calif. Filed Apr. 12, 1921. Serial No. 146,060.

OXYGEN WATER

Particular description of goods.—A Purified Water Carrying Dissolved Oxygen in Super-Saturation, Used in the Treatment of Bright's Disease, Rheumatism, Fevers, Stomach Diseases, &c., and as a Preventive of Disease.
Claims use since Feb. 15, 1920.

146,633. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) ATHOL MANUFACTURING COMPANY, Athol, Mass. Filed Nov. 9, 1920. Serial No. 139,387.

Athol

Particular description of goods.—Pyroxylin-Coated Fabrics in the Piece.
Claims use since July, 1915.

146,634. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BASTIAN-MORLEY CO., La Porte, Ind. Filed July 13, 1920. Serial No. 134,874.

SUPERIOR

Particular description of goods.—Gas Water-Heaters.
Claims use since Feb. 28, 1912.

146,635. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) CENTRAL CONSUMERS COMPANY, INCORPORATED, Louisville, Ky. Filed July 14, 1920. Serial No. 134,936.

Ginger-Cola

Particular description of goods.—A Non-Alcoholic, Malt-less Beverage and Syrup for Making Same.
Claims use since June 1, 1920.

146,636. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE CINCINNATI BALL CRANK CO., Oakley, (Cincinnati,) Ohio. Filed June 9, 1921. Serial No. 148,868.

BALL CRANK CO. CINCINNATI STEEL PRODUCTS BALCRANK

Particular description of goods.—Stabilizers, Drag-Links for Vehicle Steering-Gears and Bumpers.
Claims use since Apr. 6, 1920.

146,637. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CHATHAM MANUFACTURING COMPANY, Winston-Salem, N. C. Filed June 1, 1921. Serial No. 148,481.

Woolwich

Particular description of goods.—Blankets Made of Wool and of Cotton or Combination of Wool and Cotton.
Claims use since Jan. 15, 1919.

146,638. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) COMMON SENSE GUM COMPANY, New York, N. Y. Filed Aug. 31, 1917. Serial No. 105,980.

Listerated

Particular description of goods.—Chewing-Gum.
Claims use since Sept. 9, 1907.

146,639. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) JOSEPH J. COSIN, New York, N. Y. Filed Apr. 19, 1921. Serial No. 146,371.

"DOWNYWOOL"

HOLDS THE POWDER

Particular description of goods.—Powder-Puffs.
Claims use since the latter part of 1916.

146,640. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOTHAIRE E. CROUSE, Columbus, Ohio. Filed May 12, 1921. Serial No. 147,595.

STOMAK-EASE

Particular description of goods.—A Powdered Preparation for Use in the Treatment of Stomach Disorders, Dyspepsia, Indigestion, Heartburn, Acid Fermentation, Sour Stomach, Gas on Stomach, Belching, Heavy Feeling, Bloating, and Irregular Bowels.
Claims use since about 1901.

146,641. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LOTHAIRE E. CROUSE, Columbus, Ohio. Filed May 12, 1921. Serial No. 147,596.

PAIN-EASE

Particular description of goods.—A Powdered Preparation for Use in the Treatment of Rheumatism, Headaches, Miscellaneous Pains, and Also to Relieve or Dispense Blood-Pressure.
Claims use since about Sept. 1, 1919.

146,642. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CULLEN MAN'F'G CO., Salt Lake City, Utah. Filed Nov. 29, 1920. Serial No. 140,374.

Bonneville

Particular description of goods.—Candy.
Claims use since May 1, 1920.

146,643. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE EDLIS BARBERS' SUPPLY CO., Pittsburgh, Pa. Filed Apr. 2, 1921. Serial No. 145,617.

HAIR TRAINER

Particular description of goods.—A Liquid Cream for the Hair.
Claims use since Nov. 5, 1919.

146,644. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEIGY COMPANY, INC., New York, N. Y. Filed July 26, 1920. Serial No. 135,417.

DIPHENYL

Particular description of goods.—Dyestuffs.
Claims use since 1903.

146,645. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Sept. 22, 1920. Serial No. 137,468.

AKRON

Particular description of goods.—Gun Recoil-Pads for Hand-Arms—Namely, Rifles and Shot Guns—and Made of Rubber and Leather.
Claims use since about 1906.

146,646. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GRAF BROS., INC., New York, N. Y. Filed June 30, 1921. Serial No. 149,851.

DeLuxe

Particular description of goods.—Hair-Nets.
Claims use since 1915.

146,647. (CLASS 43. THREAD AND YARN.) GUDEBROD BROS. SILK CO., New York, N. Y., and Philadelphia, Pa. Filed Sept. 29, 1920. Serial No. 137,730.

CANTON SILK • BEST A QUALITY •

Particular description of goods.—Spool-Silk.
Claims use since May, 1904.

146,648. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE INDIA TIRE AND RUBBER COMPANY, Akron and Mogadore, Ohio. Filed Apr. 6, 1921. Serial No. 145,785.

INDIA

Particular description of goods.—Resilient Tires for Vehicles, Composed of Rubber or Rubber and Fabric, Inner Tubes, and Tire-Repair Materials and Accessories—Namely, Rubber-Impregnated Tire Building and Rebuilding Fabrics, Hook-On Boots, Lace-On Boots, Flaps, and Tire-Repair Air-Bags; Fabric and Rubber Repair-Patches, Tube-Patches in Sheet and Patch Form, and Reliners; Tire-Repair Gum Materials in Sheet Form—Namely, Tread-Gums, Cushion-Gums, Tube-Gums, Camel-Back Tread-Gums, and Combination-Gums.
Claims use since May 2, 1917.

146,649. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) INTERNATIONAL HEATER COMPANY, Utica, N. Y. Filed Mar. 5, 1921. Serial No. 144,331.

ONEPIPE

Particular description of goods.—Warm-Air Heaters and Furnaces.
Claims use since Oct. 1, 1915.

146,650. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) H. B. JAEGER BARBER SUPPLY CO., Jacksonville, Ill. Filed Feb. 4, 1921. Serial No. 143,171.

TONIQUE DeRoma

Particular description of goods.—Hair-Tonics.
Claims use since Apr. 27, 1918.

146,651. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) JOHN OLIVER JOHNSON, Chicago, Ill. Filed June 3, 1921. Serial No. 148,597.

SHADY-PLACE

Particular description of goods.—Lawn-Grass Seeds.
Claims use since Mar. 1, 1907.

146,652. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) LIME COLA CO., Montgomery, Ala. Filed June 21, 1920. Serial No. 133,975.

LIME COLA

Particular description of goods.—Non-Alcoholic, Maltless Extract and Syrup for Making Soft Drinks.
Claims use since Sept. 1, 1915.

146,653. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) JOB R. MANLEY, East Liverpool, Ohio. Filed Apr. 5, 1920. Serial No. 130,680.

DURBUR

Particular description of goods.—Non-Alcholic Drink Made from Herbs, Roots, Barks, Fruits, and Pepsin.
Claims use since Apr. 1, 1911.

146,654. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LEONARD C. MYERS, Los Angeles, Calif. Filed June 10, 1919. Serial No. 119,420.

Neverleke

Particular description of goods.—Automobile-Windows.
Claims use since Jan. 1, 1918.

146,655. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NATIONAL BISCUIT COMPANY, New York, N. Y. Filed Apr. 7, 1921. Serial No. 145,842.



Which is lined to indicate red and yellow borders, the words "Royal Lunch" appearing in white on a red background, the words "National Biscuit Company" in gold and white being on a black background, the shield having a yellow border, and the strip at the sides and bottom between the black portion on the inside and the yellow and red borders on the outside being of gold.
Particular description of goods.—Biscuit and Crackers.
Claims use since Oct. 10, 1911.

146,656. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) NO-LEAK-O PISTON RING COMPANY, Baltimore, Md. Filed June 3, 1921. Serial No. 148,612.

50¢ and up

Particular description of goods.—Piston-Rings.
Claims use since May 1, 1920.

146,657. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) ORANGE NECTAR CO., Brooklyn, N. Y. Filed Apr. 12, 1921. Serial No. 146,083.

O. U.
ORANGE NECTAR

Particular description of goods.—Non-Cereal, Maltless Beverage Sold as a Soft Drink.
Claims use since March, 1920.

146,658. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH PAGNOTTA, Latrobe, Pa. Filed Jan. 25, 1921. Serial No. 142,767.

NOT-A-PAIN

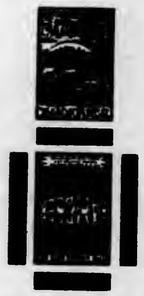
Particular description of goods.—Antiseptic Powder for Relieving Burns.
Claims use since December, 1919.

146,659. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) RICE-STIX DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 9, 1920. Serial No. 128,170.



The shade-lines indicate the colors gold, red, white, and blue.
Particular description of goods.—Cotton Piece Goods.
Claims use since Feb. 1, 1910.

146,660. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE UNITED STATES PLAYING CARD COMPANY, East Norwood, Cincinnati, Ohio. Filed May 25, 1920. Serial No. 132,954.



Particular description of goods.—Playing-Cards.
Claims use since 1888.

146,661. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS NOT INCLUDING ELECTRICAL APPARATUS.) WASHBURN & GRANGER, INC., New York, N. Y. Filed Jan. 28, 1921. Serial No. 142,914.

DEAN

Particular description of goods.—Grates and Incinerators.
Claims use since Sept. 28, 1906.

146,662. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Sept. 21, 1920. Serial No. 137,437.

Westinghouse

Particular description of goods.—Certain Named Electrical Apparatus.
Claims use since 1888.



LABELS

REGISTERED SEPTEMBER 13, 1921.

23,414.—*Title:* "RASTUS 7—11." (For Candy.) E. J. BRACK AND SONS, Chicago, Ill. Filed March 21, 1921.

23,415.—*Title:* "BRIGHT STAR." (For Dry-Cell Batteries.) BRIGHT STAR BATTERY CO., New York, N. Y. Filed June 30, 1921.

23,416.—*Title:* "BURSON FASHIONED HOSE." (For Cartons for Hosiery.) BURSON KNITTING COMPANY, Rockford, Ill. Filed March 5, 1921.

23,417.—*Title:* "COLUMBIA EXCLUSIVE ARTIST." (For Sound-Records of the Columbia Graphophone Co.) COLUMBIA GRAPHOPHONE COMPANY, New York, N. Y. Filed March 2, 1921.

23,418.—*Title:* "EZE AUTO POLISH." (For Liquid Auto-Polish.) EZE PRODUCTS COMPANY, Denver, Colo. Filed March 22, 1921.

23,419.—*Title:* "FLUNOINE." (For Boxes, Bottles, Jars, and Packages Containing Emollient and Healing Medicaments, Used as an Inhalent and a Rubefacient, for Relief of Colds and Congestion in the Head, Throat, and Chest.) FLUNO CO., Bridgeport, N. J. Filed February 1, 1921.

23,420.—*Title:* "KREEM NUT." (For Oleomargarin.) WALTER J. HAEBERLEIN, Camden, N. J. Filed January 29, 1921.

23,421.—*Title:* "PRUNES FROM LOS GATOS." (For Boxes of Prunes.) F. WM. KEMLING CO., San Jose, Calif. Filed April 9, 1921.

23,422.—*Title:* "KRANK'S IN VIGORATOR." (For Bottles of Hair-Dresser.) ALFRED J. KRANK, St. Paul, Minn. Filed February 12, 1921.

23,423.—*Title:* "PERMANENT TIP." (For Shoe-Laces.) THE L. & R. COMPANY, Providence, R. I. Filed April 5, 1921.

23,424.—*Title:* "VITRIFUSED GLASS COATED FLUES." (For Flue-Linings for Monarch Ranges.) MALLEABLE IRON RANGE COMPANY, Beaver Dam, Wis. Filed April 11, 1921.

23,425.—*Title:* "LAPIDAR." (For Goods Named Lapidar, Which Consist of Medicinal Tablets Made of Herbs and Roots from the Swiss Alps.) ROBERT MAUER, Chino, Calif. Filed April 7, 1921.

23,426.—*Title:* "WASHINGTON BRAND PURE CREAMERY BUTTER." (For Cartons Containing Butter.) MENASHA PRINTING AND CARTON COMPANY, Menasha, Wis., assignor to Washington Dairy Company, Inc., Peoria, Ill. Filed June 30, 1921.

23,427.—*Title:* "CHOCOLATE CHERRIES." (For Cartons Containing Chocolate Cherries.) PHILIP MESSING, Long Island City, N. Y. Filed December 4, 1920.

23,428.—*Title:* "RED SEAL RUBBER BABY PANTS." (For Baby-Pants.) MORRIS, MANN & REILLY, Chicago, Ill. Filed April 25, 1921.

23,429.—*Title:* "THE SMOKERS GUM." (For Chewing-Gum.) THE NICOMORS PRODUCTS COMPANY, Cleveland, Ohio. Filed April 18, 1921.

23,430.—*Title:* "NU-LADE EGGS." (For Eggs.) PACIFIC CO-OPERATIVE POULTRY PRODUCERS, Portland, Oreg. Filed September 10, 1919.

23,431.—*Title:* "BABY BUSTER." (For Chick Feed.) THE PARK & POLLARD CO., Boston, Mass. Filed March 21, 1921.

23,432.—*Title:* "SUN-SEAL SUNNYCORN." (For a Breakfast Cereal Made of Corn.) THE PATENT CEREALS COMPANY, Geneva, N. Y. Filed March 22, 1921.

23,433.—*Title:* "SEEDS' DRESSING." (For a Dressing for Floors, Interior Decorations, Automobiles.) F. E. SEEDS, Covington, Ky. Filed December 16, 1920.

23,434.—*Title:* "MARY LINCOLN." (For Candies.) L. R. STEEL COMPANY, INC., Buffalo, N. Y. Filed February 28, 1921.

23,435.—*Title:* "CHARM ONET." (For Hair-Nets.) LEON STEIN, New York, N. Y. Filed March 26, 1921.

23,436.—*Title:* "SWEET'S SALT LAKE BRILLIANT GLOSS FILLED CANDIES." (For a Tin Containing Filled Candies.) SWEET CANDY CO., Salt Lake City, Utah. Filed March 10, 1921.

23,437.—*Title:* "POPULAIRE." (For Cigars.) NATHAN WEISS, New York, N. Y. Filed June 30, 1921.

23,438.—*Title:* "GAINSBOROUGH." (For Envelops Containing Hair-Nets.) WESTERN BOTTLE MANUFACTURING COMPANY, Chicago, Ill. Filed April 20, 1921.

23,439.—*Title:* "NUFIBRE." (For Prepared Moss.) HENRY WILHELM COMPANY, Pittsburgh, Pa. Filed March 22, 1921.

PRINTS

REGISTERED SEPTEMBER 13, 1921.

5,751.—*Title:* "SPARK PLUGS." (For Advertising Purposes for Neckwear.) THE BRACKEN FURNISHING GOODS COMPANY, Kansas City, Mo. Filed April 11, 1921.

5,752.—*Title:* "STERLING MILK." (For Advertising Purposes for Milk.) FLOYD E. CRYDER, Chicago, Ill. Filed August 16, 1920.

5,753.—*Title:* "KASH KARRY KOFFEE." (For Containers or Bags for Advertising Coffee.) WALTER H. DEUBENER, St. Paul, Minn. Filed February 16, 1920.

5,754.—*Title:* "5¢ WILL STILL BUY GOLD DUST—FOR YOUR SPRING CLEANING." (For Advertising Gold Dust Washing-Powder.) THE N. K. FAIRBANK COMPANY, Chicago, Ill. Filed June 14, 1920.

5,755.—*Title:* "BETTY ALLEN." (For Advertising Purposes for Ladies' Gowns.) ELIZABETH ROGERS GREEN, Washington, D. C. Filed June 30, 1921.

5,756.—*Title:* "HAYNES CHARACTER CARS." (For Advertising Purposes for Automobiles.) THE HAYNES AUTOMOBILE COMPANY, Kokomo, Ind. Filed March 2, 1921.

5,757.—*Title:* "GLORIOUS HAIR." (For Advertising Kirk's "Jap Rose" Soap.) JAMES S. KIRK & COMPANY, Chicago, Ill. Filed April 7, 1921.

5,758.—*Title:* "THE WONDER SOAP." (For Advertising Kirk's Original Cocoa Hardwater Castile Soap.) JAMES S. KIRK & COMPANY, Chicago, Ill. Filed April 7, 1921.

5,759.—*Title:* "A BEAUTIFUL SKIN." (For Advertising Kirk's "Jap Rose" Soap.) JAMES S. KIRK & COMPANY, Chicago, Ill. Filed April 7, 1921.

5,760.—*Title:* "GRINNELL GLOVES 'BEST FOR EVERY PURPOSE.'" (For Advertising Purposes for Gloves.) MORRISON-RICKER MFG. COMPANY, Grinnell, Iowa. Filed February 16, 1921.

5,761.—*Title:* "GRINNELL GLOVES 'BEST FOR EVERY PURPOSE.'" (For Advertising Purposes for Gloves.) MORRISON-RICKER MFG. COMPANY, Grinnell, Iowa. Filed February 16, 1921.

5,762.—*Title:* "GRINNELL GLOVES 'BEST FOR EVERY PURPOSE.'" (For Advertising Purposes for Gloves.) MORRISON-RICKER MFG. COMPANY, Grinnell, Iowa. Filed February 16, 1921.

5,763.—*Title:* "GRINNELL GLOVES 'BEST FOR EVERY PURPOSE.'" (For Advertising Purposes for Gloves.) MORRISON-RICKER MFG. COMPANY, Grinnell, Iowa. Filed February 16, 1921.

5,764.—*Title:* "PENN DOUBLE BEVEL BLADE." (For Advertising Purposes for Safety-Razor Blades.) A. C. PENN, INC., New York, N. Y., assignor to The Greist Manufacturing Company, a Corporation of Connecticut. Filed September 20, 1919.

5,765.—*Title:* "SPEED WAGON." (For Advertising Purposes for Motor-Trucks.) REO MOTOR CAR CO., Lansing, Mich. Filed August 30, 1921.

5,766.—*Title:* "DR. PECK'S PY-ZO-SIS TOOTH BRUSH." (For Advertising Purposes for Toothbrushes.) A. E. PECK MANUFACTURING CO., Minneapolis, Minn. Filed March 21, 1919.

5,767.—*Title:* "DUXBAK STEAMPROOF NUTAN." (For Advertising Purposes for an Article of Manufacture—viz., Leather Belting.) CHAS. A. SCHIEREN COMPANY, New York, N. Y. Filed March 29, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

SCHEY *v.* GIOVANNA.

Decided May 18, 1921.

[278 Fed. Rep., 515.]

1. PATENTS—INFRINGEMENT AFTER DECREE AND INJUNCTION PUNISHABLE AS CONTEMPT.
A change on an infringing device by a defendant after decree and injunction against him *Held* merely colorable, and his use or sale of the changed device punishable as a contempt.

2. SAME—SUBSTITUTION OF EQUIVALENTS.
The substitution of either a spur or a gear device for a chain drive *Held* to be within the narrowest range of mechanical equivalence.

APPEAL from the District Court of the United States for the Southern District of New York.

Suit in equity by Max Schey against George Giovanna. From an order finding him in contempt, defendant appeals. Affirmed.

STATEMENT OF THE CASE.

Giovanna had been sued in ordinary form as an infringer of United States Patent No. 902,724, and final decree had passed against him, pursuant to which injunction issued restraining him, his "servants and agents," from "directly or indirectly making or causing to be made, using or causing to be used, or vending to others to be used, or contributing to the making, using, or vending of any apparatus" covered by the claims of said patent. The contempt found consisted in selling alleged infringing articles and making such sales in the name of a relative bearing the same name as himself.

Mr. Henry J. Lucke for appellant.

Mr. O. Ellery Edwards, Jr., for appellee.

Before WARD, ROGERS, and HOUGH, Circuit Judges.

HOUGH, *Cir. J.*:

The patent for infringement of which Giovanna had been condemned covers his own invention, and is No. 902,724, for an apparatus for broiling meats and the like. He is said to have infringed claims 1, 2, 3, and 6.

The device which ordinarily embodies the patent is called a rotisserie, and Giovanna, before the suit resulting in the injunction aforesaid, had assigned to plaintiff both the patent and the good-will of a business which included or consisted in the sale of rotisseries and parts thereof. For the purposes of this case, and without making any holding on the subject, we shall assume that such a defendant stands in no other relation to such a patent injunction as this, than does any infringing stranger.

We see no reason to depart from the rule laid down in *Frank F. Smith, Etc., Co.*, v. *Yates*, (244 Fed., 793; 157 C. C. A., 241.) to the effect that the question of infringement by a device, which has been modified after decree and injunction, will not be tried on a motion to punish for contempt, if the change so made is substantial, but it may be so dealt with where the change is colorable only.

Infringement after final decree and in violation of injunction is just as much infringement as is the same act committed before suit brought; all infringers are tort-feasors, and a plurality of infringers are joint tort-feasors, and are also liable severally. (*Featherstone* v. *Ormonde, Etc., Co.*, (C. C.,) 53 Fed., 110.) The court below has found in substance that appellant merely used the name of his relative as a cover for his own transactions, and we see no reason to disagree with that finding. While, therefore, he would be liable jointly with his relative of the same name, if he knowingly assisted in that relative's infringement, this case does not require any consideration of the question as to how far this particular Giovanna acted as a mere servant, without intent or knowledge of personal wrongdoing.

The substance of the patent invention is the provision in a roasting or broiling device of a plurality of spits, each provided with a sprocket-wheel capable of meshing with some form of endless driving device, to the end that all the spits may be simultaneously driven by one actuating power. The novelty and utility of the patented machine arose from the ready and independent detachability of any one spit without disturbing the continued rotation of the others. It is not necessary to quote at length the claims declared valid and infringed by appellant; it suffices to say that all but claim 6 do not specify the "driving means" further than by the use of that phrase. The sixth claim is limited to an endless driving-chain meshing with the sprocket-wheel on each spit. There was nothing new about this; the inventive thought lies in the ready detachability of any one of a plurality of spits without interfering with the continued rotation of the others.

(2) We are satisfied with the court below that appellant, in selling rotisseries after injunction, has made no change in the patented device, except by the substitution of either a worm or a spur gear device for the chain drive specified in claim 6 and shown in the drawings attached to the specification. Such substitution plainly does not affect claims 1, 2, and 3; and when (in a rotisserie) a spur or worm device is substituted for a chain drive, the attempted evasion is within the narrowest range of mechanical equivalence.

Consequently appellant's evasion is merely colorable, was properly punished in contempt proceedings, and the order appealed from is affirmed, with costs.

Bulgarian Patent Law.

AMERICAN CONSULATE,
Sofia, Bulgaria, August 17, 1921.

[Subject: Transmitting Translation of Bulgarian Patent Law.]

The honorable the Secretary of State,
Washington, D. C.

SIR: I have the honor to inclose herewith a copy of the patent law recently passed by the Bulgarian National Sobranie. This is the first law of its kind in Bulgaria. It is said to be largely based on the French patent law, borrowing slightly also from the Greek law. It is understood that regulations for the putting into effect of the patent law are now in course of preparation.

I have the honor to be, sir, your obedient servant,

GRAHAM H. KEMPER,
American Consul.

(Translation.)

Patent law passed by the Bulgarian National Sobranie on July 8, 1921, and published in the Official Gazette of July 29, 1921.

GENERAL PROVISIONS.

ARTICLE 1. Patents are granted for new inventions, applicable to industrial uses. Patents may be basic or supplementary.

ART. 2. The following are excluded from patents:

1. Inventions whose use would be against the laws and good morals;

2. Inventions of nutritive and curative articles of any kind.

ART. 3. Those inventions which at the time of making the application for patent are either well known in Bulgaria, or described in drawings and available printed publications published in or imported into Bulgaria, will not be considered as new inventions. They may be put to practical use by any individual who possesses the necessary technical knowledge.

ART. 4. A patent may cover only one invention.

ART. 5. Any person has the right to obtain a patent who has first filed an application for the invention, in conformity with this law.

No official of the Commercial and Industrial Division of the Ministry of Commerce, Industry, and Labor, may acquire a patent for inventions either direct or through another person until one year after his separation from the service.

ART. 6. A patent gives to its owner, or to his assignees, the exclusive right to exploit, use, sell or trade the article invented.

If a patent has been granted for a means of production the patent covers also the goods produced thereby.

ART. 7. A patent cannot be advanced against conscientious persons, who at the time of the filing of the application have already exploited the invention in Bulgaria or have made the necessary preparations for the purpose of exploiting it. They may make use of the invention in their own enterprises, shops, or in the shops owned by other persons. The right may be transferred by inheritance or in some other manner only together with the enterprise.

A patent is not valid, when by a decision of the Council of Ministers, approved by a King's decree, the invention is necessary for the common weal. But in such a case the owner of the patent has the right to receive from the Government a suitable indemnity, the amount of which is to be fixed by the courts.

A patent also is not valid when it relates to appliances for means of transportation which only temporarily stay in the country.

ART. 8. A basic patent is valid for a period of 15 years; this period begins the day the application is filed.

ART. 9. A tax of 60 gold leva is paid for each basic patent. In addition to this, at the beginning of the second year, an annual tax is paid on each patent, as follows:

2nd year	120	gold leva
3rd year	180	" "
4th year	240	" "
5th year	300	" "
6th year	360	" "
7th year	420	" "
8th year	480	" "
9th year	540	" "
10th year	600	" "
11th year	660	" "
12th year	720	" "
13th year	780	" "
14th year	840	" "
15th year	900	" "

The annual tax must be paid during the first three months following the close of the year. Taxes for several years may be paid at one time. If the patent is declared invalid or is taken away, or is given up, the taxes paid in advance are refunded to the proper person.

ART. 10. A patent becomes void:

a. When its owner disclaims it; the disclaimer is in the form of a written application addressed to the Ministry of Commerce, Industry, and Labor, and becomes effective at the time it is handed to the chief of the Division for Trade and Industry. It is published.

ART. 11. After the expiration of three years from the time the patent was acquired, any person who has a legal interest, may file a claim for annulling the patent, if its owner has neglected, without any good reason, to exploit in Bulgaria to a sufficient extent the patented invention, or at least has not taken the steps necessary to assure such an exploitation.

ART. 12. All patents become null and void:

a. If the inventions covered thereby do not comply with articles 1 and 2 of the present law;

b. If the invention is covered by a patent granted to a prior applicant;

c. If the applicant has omitted intentionally, when describing the invention, mentioning a certain part of his secret, or has described it in an inaccurate manner;

d. If the substantial subject matter of the application is taken from the description, drawings, models, instruments or appliances of another person, or some method used by him, without the consent of such person.

If the reason for annulling a patent affects only a part of the patented invention, the patent is correspondingly limited, provided that the integrity of the invention be preserved.

A petition to annul a patent may be presented before the District Court of Sofia by any person who has a legal interest therein.

ART. 13. The owner of a basic patent, who makes a change in the already patented invention, may, by paying a tax of only 60 gold leva, acquire a supplementary patent, which shall expire together with the basic patent.

Supplementary patents, issued to the owner of a basic patent, may be used by all individuals who make use of the basic patent, provided no conflicting agreement exists.

Supplementary patents are subject to the fate of the basic patents, the right being reserved, however, to have them changed into basic patents according to article 11 of this law.

ART. 14. Supplementary patents may at any time be changed into basic patents, if they comply with all conditions provided for by this law. The life of such patents is considered to have begun from the day on which they were granted as supplementary patents. The tax for the first year on these patents is equal to the last year's tax for the basic patent, the date of payment falling before the date the change has taken place.

ART. 15. A supplementary patent expires together with the basic patent to which it has been added.

If the basic patent has been annulled, or if, either as the result of a court decision or on account of a private disclaimer, it is so limited that supplementary patents can not be granted, the latter expire at the end of three months from the day of final decision or the date of the filing of the disclaimer, if the owner has not requested to have them, or some of them, changed into basic patents, with respect to which those remaining shall serve as supplementary patents.

ART. 16. No person to whom a patent has been granted for an invention which is related to the subject matter of some other patent, can without the consent of the owner of the first patent use the original invention.

Also the owner of the first patent can not use an invention forming the subject matter of the new patent, without the consent of the owner of the latter.

ART. 17. Three years after the filing of the application for the first patent, the owner of a patent who does not find it possible to exploit his invention without using an earlier patent of another person, has the right to demand from the owner of the first patent the right to use that patent, provided the new invention is a technical improvement over the earlier one.

In like manner, if such right has been granted, the owner of the first patent may demand the right to use the second patent, which will permit him to exploit it, provided the latter patent is in its subject matter directly related to the first.

In the absence of a voluntary agreement, the district court shall fix the amount of the indemnity and the securities which must be given.

ART. 18. The right to acquire a patent and the rights issuing from the patent, are transferred to the heirs and may be transferred wholly or in part by assignment or by will.

ART. 19. The owner of a patent may grant to another person the right to use the invention.

If a patent belongs to several individuals, one of the joint-owners cannot without the consent of the others transfer his rights to use it and cannot exercise the rights issuing from the patent; however, each and every one of them may prefer a claim for infringement of the patent and dispose of his part.

A person who has acquired the right of use, cannot transfer such right to any other person, unless this right is transferred together with the enterprise to which its use has been granted. The right of use cannot be transferred because of death, except when the new owner continues the enterprise to which this right has been granted.

ART. 20. If by means of a Decree, issued by an order of the Council of Ministers, the patented invention has been declared of general utility, the owner of the patent is obliged to surrender his rights for an indemnity. If he does not agree to such disposition, then the Ministry of Commerce, Industry and Labor may order such disposition. The person who receives it is obliged to pay the indemnity, which in the absence of a mutual agreement between the persons concerned is decided by the court.

The owner of a patent may always declare that he agrees beforehand to surrender his rights for an indemnity, which may be determined by mutual agreement or by the court in case such an agreement has not been reached.

Such decision is noted on the patent and is published in the papers.

ART. 21. The cancellation of a patent also cancels the right of use. The owner of a patent must refund the sums received in payment for the right of use, or he may in any event request that an account be kept of the proceeds realised by the person who has had the right of use and a proportionate decrease in the sum to be refunded.

ART. 22. A person who is not a resident of the Kingdom may apply for a patent only through an attorney in Bulgaria. The attorney represents him in all actions necessary to be taken in conformity with this law and procedure concerning a patent.

The provisions of the present article shall apply also when the owner of the patent leaves the country, or assigns it to someone living abroad.

ART. 23. Persons who have filed an application for patent or have obtained such patent abroad and wish to obtain a patent for the same invention in Bulgaria may take advantage of the right of priority of 12 months beginning with the date the application has been filed for acquiring the foreign patent, on condition of reciprocity and safeguarding the rights of third persons.

Any person who wishes to take advantage of this right of priority must present with his application for a Bulgarian patent, aside from the necessary papers required by the present law, a certificate of a competent foreign authority as to the date and contents of application filed, or if a patent has already been granted—a certified copy thereof.

GRANTING OF PATENTS.

ART. 24. Any person who wishes to obtain a patent for an invention, must file an application either in person or through a special attorney, to the Chief of the Division of Commerce and Industry at the Ministry of Commerce, Industry, and Labor:

a. Stating in writing his full name, citizenship, place of residence and profession as well as those of his attorney. The application must contain a brief but exact description of the type of invention and the nature of the article for which a patent is desired;

b. Giving an exact and detailed description of the invention, which will enable one skilled in the art, to which it pertains, to make and use it, and in addition the description must contain a brief enumeration of the essential elements of the invention;

c. With drawings, figures, patterns, or models necessary for understanding the description;

d. With a receipt showing that the tax of 60 leva has been paid; this sum covers the first year's tax in conformity with article 28; and

e. With a memorandum of the parts and articles deposited.

If the application has been filed by an attorney, the power of attorney should be inclosed.

ART. 25. All documents, which are required by article 24, must be written in the Bulgarian language. The description must contain no erasures or insertions. The words which have been deleted must be counted, the pages and the annotations must be numbered. The weights and measurements must be expressed in the metric decimal system, and the drawings must be inked in in a prescribed manner.

All documents must be signed by the applicant or by his attorney, who must have a secondary or special education.

ART. 26. Immediately after the required documents have been deposited with the chief of the Division of Commerce and Industry, a protocol is made without any fee, which is recorded in a special register for that purpose; the protocol is signed by the applicant or his attorney and by the chief of the division. This protocol certifies the date and the hour of filing the application; a copy of it is given to the interested person for a tax of 10 leva.

ART. 27. If an application relates to an invention unfit for industrial use or which cannot be patented in conformity with article 2 it is left without any further action on the basis of a decision with reasons stated. If the Ministry of Commerce, Industry, and Labor find that the invention is not a new one, the applicant is so informed, who may maintain, amend, or withdraw his application.

ART. 28. If an application is not accompanied by the documents required by article 24, and if in writing up the description or in filing of the documents and parts, the provisions of articles 24 and 25 have not been fulfilled the application is left pending. The applicant is invited by the Ministry of Commerce, Industry, and Labor to present within a specified time limit the documents and parts required by articles 24 and 25. If he does not furnish them, the ministry rejects the application, giving the reasons therefor.

ART. 29. The Ministry of Commerce, Industry, and Labor must act on a filed application for patent within a period of two months.

In case an application has been left without further action thereon, or has been rejected, (see articles 27 and 28), the applicant has the right to file a complaint against the decision of the ministry within a time limit of two months from the date of the notice of rejection with the Sofia Court of Appeals, which before giving its decision may hear the opinion of experts.

In no case whatever will the first tax paid be refunded.

ART. 30. When an application relates to an invention of general public utility, the Ministry of Commerce, Industry, and Labor transmits the specification to the proper ministry, which must within a time limit of three months decide whether or not it intends to use the invention after properly compensating the applicant.

If within the above time limit the ministry does not reply, such action will be construed to mean that it does not wish to use the invention.

ART. 31. Patents are granted without a previous examination and without a government guarantee for the existence, novelty, operation, or the nature of the invention, or its correspondence to the specification filed by the applicant.

Patents are granted by a decree of the Ministry of Commerce, Industry, and Labor, establishing the regularity of the application; to the decree are attached: the original specification, drawings, and other accessories enumerated in article 24.

ART. 32. The Division of Commerce and Industry keeps a register of the patents showing the subject of the invention, the name, profession, and place of residence of the owner of the patent or his attorney, the date and the hour of filing the application and every change affecting the ownership of the patent and its existence.

In the same register there is recorded the cancellation, or annulling of the patent, enacted through a decision of the court, as well as the rights of use acquired through court proceedings, after notification that the court decision has entered into force.

Clerks of the court are obliged to send to the Ministry of Commerce, Industry, and Labor, without revenue stamps certified copies of the decision on all questions affecting patents immediately after they go into effect.

ART. 33. After recording it in the register, the Ministry of Commerce, Industry, and Labor, publishes the subject matter of the patent according to serial number with the date, name, profession, place of residence of the owner of the patent, as well as of his attorney. It also publishes in the same manner each cancellation or revocation of the patent, as well as each change affecting the ownership of the patent.

The ministry may print and sell at reasonable rates the specifications of the patented inventions together with the necessary drawings and charts. This printing and sale of the specification of the patented invention may upon the request of the owner be postponed for a period of one year. In such a case the provisions of article 35 shall not apply.

ART. 34. The publications provided for by the present law are made in a bulletin which is issued periodically by the Ministry of Commerce, Industry, and Labor.

ART. 35. Any person may be furnished information and copies of the specifications, drawings, models, etc., which are the grounds for the granting of the patent, with the exception of the cases provided for by article 33.

The expenses and rates for copies and other parts will be fixed according to rules.

ART. 36. Each transfer of right to use as well as every change affecting the existence of ownership and use of a patent, must be recorded briefly in the special register of the Division of Commerce and Industry within three

months beginning from the day such action was taken. If these transfers have not been recorded they will be considered as null and void with respect to other rightful owners.

Each recording is subject to a tax of 25 leva.

PENAL PROVISIONS.

ART. 37. ANY person who either intentionally or through gross negligence utilises an invention infringing the provisions of articles 6 and 7 of the present law, is hereby compelled to pay for the loss suffered by the patentee.

If an invention relates to some means for the manufacture of a new product, any product of the same nature will be considered, unless the contrary is proven, as made according to the patented means.

ART. 38. Any person who intentionally uses an invention infringing articles 6 and 7 of the present law, is punishable by a fine not to exceed 5,000 leva and by imprisonment up to 6 months, or by one only of the two penalties.

ART. 39. A criminal prosecution may be instituted by a petition from the injured person.

A suit may be withdrawn at any time.

ART. 40. Civil cases according to the present law must terminate within a time limit of three years for each separate case.

ART. 41. The criminal court, in deciding cases concerning infringements of articles 6 and 7 of the present law, renders its decision also on the objections made by the individual accused and based on the abolishment, revocation, or the ownership of the patent, which is the subject of the dispute.

Such decisions concern only the criminal liability.

ART. 42. The court with which a civil or criminal suit has been filed for infringements of a patent, may order the taking of proper protection measures.

It may specially enact that a detailed description be prepared of the products which are stated to have been manufactured as an infringement of the provisions of this law, of the installations, machines, implements, methods, etc., which have been used for that purpose; it may also issue an injunction or sequestration with regard to these various articles in conformity with article 557 of the civil law and the following articles.

In the latter case the court may require the plaintiff to present a fixed guarantee in advance.

ART. 43. In case of a civil or criminal sentence, the court may order the confiscation and sale or destruction of the products made by infringing the provisions of the present law, as well as the destruction of the installations, machines, implements, materials, etc., which have served for that purpose.

From the sum realised from the sale, shall be deducted the fine and court expenses, the balance shall be applied toward paying the damages, and any excess shall be turned over to the owner of the mentioned articles.

Even in case of acquittal the court may, if it finds it necessary, order the destruction of the installations, machines, implements, and materials, which have served exclusively for infringing the provisions of the law.

ART. 44. Goods or products, which have been made by infringing the provisions of the present law, as well as the installations, machines, implements, materials, etc., which have served exclusively for carrying on the criminal act, may be ordered by the criminal court to be given to the injured party, provided the convicted person is their owner and if the injured person has instituted a civil suit for damages and agrees to accept the above said articles as a full or partial payment of such damages.

ART. 45. Any person who places on the products, or their wrappers, on commercial papers of any kind, intended to be used by a great number of people, or on other means of advertising and publicity, signs which may create a false belief that the objects described thereby are protected by a patent, is punishable by a fine up to 1000 leva and by imprisonment up to 1 month or by only one of these two punishments.

ART. 46. All suits for damages instituted under the present law are under the jurisdiction of the District Court at Sofia and are heard according to the short method of Court procedure.

SPECIAL PROVISIONS.

ART. 47. All privileges or patents granted under a special law, may, during the period of protection, be confirmed by patent, in conformity with the provisions of this law.

If such confirmation has not been requested within a period of one year from the publication of this law, the above mentioned privileges and patents shall be considered null and void.

The period of protection starts with the going into effect of the corresponding special laws. For payment of taxes the first year shall begin with the date of the filing of the application made according to the provisions of this law.

ART. 48. For the execution of the present law there shall be created at the Ministry of Commerce, Industry, and Labor a Bureau of Industrial Property, the positions in which shall be fixed in the budget according to the needs. This bureau shall also be charged with service of registering trademarks.

ART. 49. The manner of filing, the form, the size of the papers and the memoranda, the presentation of other parts, besides those mentioned in the present law will be established in a special regulation, and if it be necessary, the manner of writing up the descriptions and advertising the patents, and, in general, all that refers to the execution of the present law.

Patents Nos. 1,390,975 to 1,391,657.

THE
OFFICIAL GAZETTE
OF THE
United States Patent Office.

Vol. 290—No. 3. TUESDAY, SEPTEMBER 20, 1921. Price—$5 per year.

[PUBLISHED SEPTEMBER 20, 1921.]

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Nolan Act—Reciprocity of the Laws of the Kingdom of the Netherlands Recognized.

(ORDER No. 2,693.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 19, 1921.

Notice is hereby given that the laws of the Kingdom of the Netherlands are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently the privileges specified in said act will be extended to subjects of the Kingdom of the Netherlands, subject to the limitation that extensions will not be granted to relieve defaults falling under section 2 of the act for a longer period than seven years and two months.

THOMAS E. ROBERTSON,
Commissioner.

Nolan Act—Reciprocity of the Laws of the Grand Duchy of Luxemburg Recognized.

(ORDER No. 2,694.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 19, 1921.

Notice is hereby given that the laws of the Grand Duchy of Luxemburg are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently the privileges specified in said act will be extended to subjects of the Grand Duchy of Luxemburg, subject to the limitation that extensions will not be granted to relieve defaults falling under section 2 of the act for a longer period than seven years and two months.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notice.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 20, 1921.

The American Perfumer Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Hersey P. Barnes, of 156 Jamestown street, Manayunk, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered May 1, 1906, No. 51,958, to The American Perfumer Company, of 15 Taylor street, Springfield, Mass., and a notice of such declaration sent by registered mail to The American Perfumer Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The American Perfumer Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

TRADE-MARK SECTION OF THE OFFICIAL GAZETTE.

In response to the public demand a section of the Official Gazette containing all matter relating to Trade-Marks may be procured separately beginning with volume 290, September 6, 1921.

The Trade-Marks section will include: Trade-Marks published under the Act of 1905; Trade-Marks registered under the Act of 1905 and under the Act of 1920; Labels and Prints; the indexes, and decisions from time to time in Trade-Mark cases.

The cost will be five cents each number, or $2.50 for annual subscriptions, to which must be added $2.00 to cover postage to subscribers in foreign countries.

Condition of Applications Under Examination at Close of Business September 10, 1921.

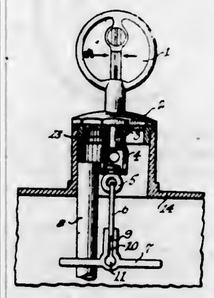
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222	12. PIERCE, P. F., Machine Elements	Jan. 29	May 28	1,134
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 16	June 10	1,617
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Nov. 17	June 25	850
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Sept. 30	Feb. 7	1,668
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Oct. 8	Feb. 7	1,717
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 27	May 3	936
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Nov. 4	Feb. 4	1,669
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Oct. 21	Mar. 19	984
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 4	Apr. 25	1,391
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Jan. 13	May 27	632
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	May 13	June 15	519
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 31	May 27	825
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 10	May 4	997
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	June 29	June 10	275
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Feb. 3	Apr. 7	807
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Mar. 25	May 27	1,268
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 14	Apr. 9	1,402
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Jan. 20	June 20	733
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 7	June 23	1,311
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 25	Dec. 1	2,048
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Nov. 13	June 6	1,019
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 14	Apr. 14	725
304	34. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	June 21	July 17	351
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 8	July 25	724
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Mar. 19	Mar. 14	1,630
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 17	Feb. 2	2,249
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 15	Apr. 18	1,113
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 12	Jan. 3	1,880
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 10	2,171
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Feb. 12	Apr. 7	887
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 3	Nov. 26	2,335
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 10	Jan. 5	1,553
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Dec. 29	June 4	490
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Feb. 5	Mar. 28	1,132
332	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Feb. 16	Mar. 9	1,071
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Dec. 7	Apr. 4	1,138
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Nov. 9	July 20	4,367
	Designs	Dec. 1	Mar. 1	1,960
	Labels and Prints	July 1	Aug. 18	437

Total number of applications awaiting action, excluding Trade-Mark division, 55,145; Trade-Mark division, 6,784.

PATENTS

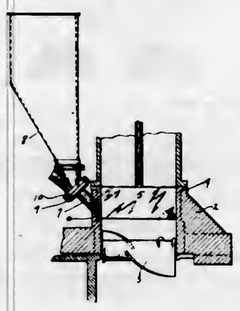
GRANTED SEPTEMBER 20, 1921.

1,390,975. MOTOMETER-ANCHOR. WILLIAM JAMES ASHTON, Dallas, Tex. Filed Jan. 10, 1921. Serial No. 436,261. 2 Claims. (Cl. 220—39.)



1. A motometer anchor, consisting of a metal bar, with a centrally located right angle arm; in said arm a slot terminating in a circular aperture at its lower extremity.

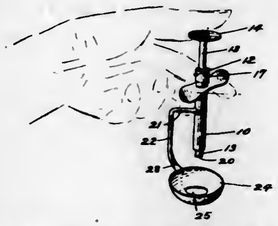
1,390,976. MACHINE FOR TREATING RUBBER AND OTHER HEAVY PLASTIC MATERIAL. FERNLEY H. BANBURY, Ansonia, Conn., assignor to Birmingham Iron Foundry, Derby, Conn., a Corporation. Filed Sept. 4, 1920. Serial No. 408,330. 1 Claim. (Cl. 18.2.)



In a machine of the class specified, the combination with a casing formed with a neck of a vertically movable weight therein, said neck formed on one side with a hole in line with the weight when in its depressed position, and a hopper discharging into said hole whereby the flow of material through the hole is controlled by the weight.

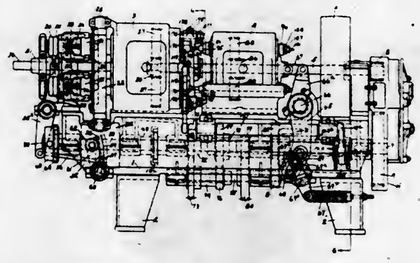
1,390,977. KITCHEN UTENSIL. HENRIETTA BEHR, Philadelphia, Pa. Filed July 1, 1921. Serial No. 481,743. 4 Claims. (Cl. 146—5.)

1. A device of the character stated comprising a barrel provided with a finger-piece, a spring-pressed plunger mounted within said barrel one end of which is provided with a thumb piece and the other end with a fruit pene-



trating and stone impelling portion and a dish-shaped receptacle carried by said barrel which receptacle is provided with an aperture in alinement with said plunger.

1,390,978. METAL-WORKING MACHINE. WILLIAM HOY BRADLEY, Springfield, Ohio, assignor to The Automatic Metal Products Company, Springfield, Ohio, a Corporation of Ohio. Filed Jan. 2, 1920. Serial No. 348,887. 15 Claims. (Cl. 82—3.)



1. In a machine of the character described, a plurality of feeding devices for a plurality of bars of stock, one set of feeding devices being associated with each bar of stock, a plurality of tools, one set being associated with each bar of stock, a main operating shaft centrally located with reference to the tools, an auxiliary supporting shaft similarly located with reference to the feeding devices, the said shafts being substantially in alinement, and an actuating device common to all of said feeding devices, said actuating device being operated by the main operating shaft and being supported upon said auxiliary shaft.

1,390,979. TICKET-HOLDER. WILLIAM BRAUNSDORF, New York, N. Y. Filed Feb. 26, 1920. Serial No. 361,549. 1 Claim. (Cl. 206—39.)



A ticket holder comprising a casing having one top wall spaced inward from the end, an enlarged portion at said

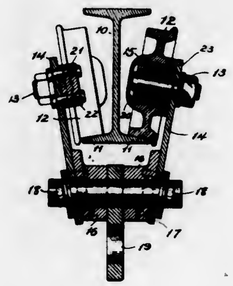
end consisting of an abutment wall having a curved edge spaced from said top wall, a curved lip extending laterally from said top wall in the spaced relation to the abutment wall to define a curved opening to impart a transverse curvation to the issuing strip of tickets, and a table wall formed with said enlarged portion forming a continuation of said top wall and having a transverse convex curvature and a sharpened edge upon which to sever the strip.

1,390,980. CONNECTING DEVICE. EDWARD H. BUDBOW, Meriden, Conn., assignor to The Steel Products Company, Hartford, Conn., a Corporation of Connecticut. Filed Dec. 28, 1918. Serial No. 268,717. 4 Claims. (Cl. 24—232.)



3. A connecting device having two hooks and having recesses in the opposite lateral faces of the respective bills of the hooks, in combination with resilient keepers mounted pivotally on said device between said hooks and normally held by their resiliency in the respective recesses, the tips of the bills of said hooks being so spaced from each other with relation to the dimensions of said keepers, their form and their location that but one keeper at a time may be moved to full open position between the tips of said bills.

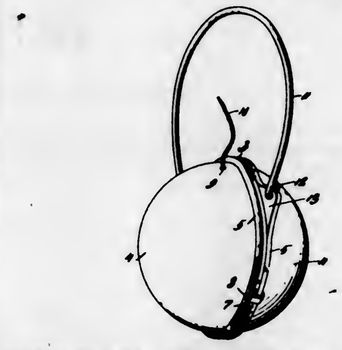
1,390,981. HOIST-TROLLEY. HARRY R. BUTLER, Pelham Manor, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Filed Jan. 18, 1921. Serial No. 438,156. 6 Claims. (Cl. 105—154.)



1. In a hoist trolley, the combination of side frames or plates each having a stub axle for a track wheel, a wheel mounted on each axle and unsecured thereto whereby it is free to be moved in the direction of the length of the axle, the end of the hub of the wheel adjacent the free end of the axle being closed to prevent the entrance of dust.

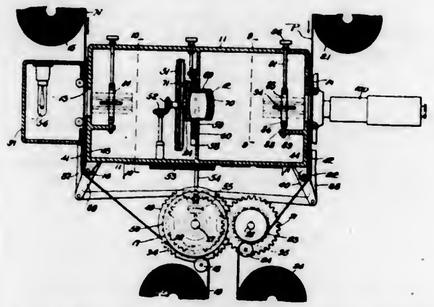
1,390,982. RECEPTACLE FOR CROCHET-THREAD AND THE LIKE. EDNA M. CHRISTENSEN, Winner, S. D. Filed Oct. 11, 1920. Serial No. 416,259. 1 Claim. (Cl. 242—146.)

A receptacle for crochet thread and the like including a pair of semi-spherical members, the margins of which are turned outwardly at right angles to provide flanges, a clasp for holding the flanges together comprising a strap one end of which is secured to one of the flanges and the



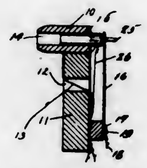
opposite end flexed over the other flange and having a portion thereof extended to provide a finger piece, and a handle secured to one of said right angled flanges.

1,390,983. COLOR-CINEMATOGRAPHY. DANIEL F. COMSTOCK, Brookline, Mass., assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Dec. 11, 1916. Serial No. 136,137. 18 Claims. (Cl. 88—16.4.)



5. The method of printing an image in accurate position upon sensitized means comprising projecting a beam of light through the image and thence through a focusing lens to form a projected image on the sensitized means, and deflecting the beam intermediate the lens and one of said images to secure said accurate positioning.

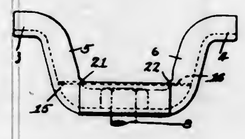
1,390,984. CIRCUIT-CLOSER FOR MUSICAL INSTRUMENTS. RALPH CONOVER and LEO HULL, Terre Haute, Ind. Filed Apr. 26, 1919. Serial No. 292,953. 1 Claim. (Cl. 175—335.)



In a circuit closer for musical instruments, a body having air controlled apertures therein, bushings in said apertures projecting beyond the surface of the body, the said bushings being conductors of electricity, a contact post

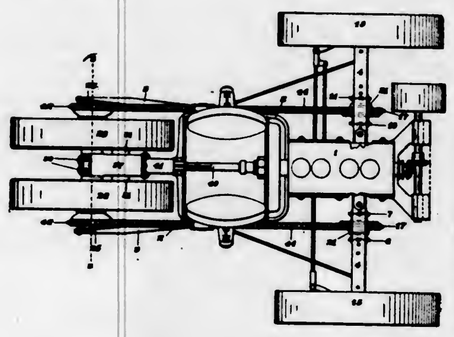
secured to the body adjacent to each bushing and having an inturned end overlying the bushing, a vibratory tongue capable of conducting electricity, means for anchoring one end of the tongue to the body and having the free end interposed between the bushing and the end of the contact normally out of engagement with either the bushing or the contact, a conductor of electricity electrically connected to the contact, a conductor of electricity connecting the means of anchorage of the tongues, and means for establishing a circuit through the circuit closer to a source of electricity and through an element for utilizing the pulsations of the circuit.

1,390,985. HANGER FOR USE IN CONCRETE CEILINGS. HARRY H. CRAWFORD, Chicago, Ill. Filed June 30, 1919. Serial No. 307,520. 4 Claims. (Cl. 72—105.)



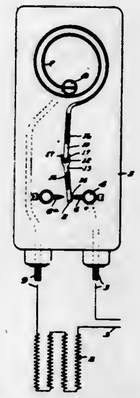
1. A hanger embodying therein a metal channel member of substantially the same cross-sectional size throughout and having its lower central portion provided with a bolt hole, continuations thereof which incline upwardly from each end of the lower central portion, a bolt having its head on one side of the channel and its shank extending through said hole, and a cover member positioned over the lower central portion, engaging the side walls of the channel and having end portions that extend into wedging engagement with said upwardly inclined continuations thereby forming a housing for said bolt.

1,390,986. TRACTOR. JOSEPH DAIN, Moline, Ill., assignor to Deere and Company, Moline, Ill., a Corporation of Illinois. Filed July 12, 1915, Serial No. 39,465. Renewed Feb. 10, 1921. Serial No. 444,023. 22 Claims. (Cl. 180—70.)



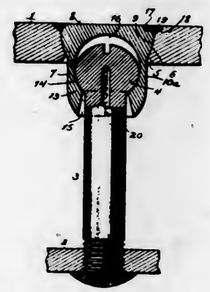
1. A tractor having in combination a forward rotatable supporting element and a rearward rotatable supporting element, a motor, means to rotate one of said elements to move the tractor by power from the motor, the other element rotating by contact with the ground, both of said elements adapted to move over the ground normally at the same speed, and means to automatically rotate said other element by power from the motor when the power driven element slips in rotating.

1,390,987. THERMOSTATIC SWITCH. FREDERICK S. DENISON, Minneapolis, Minn., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn., a Corporation. Filed Mar. 26, 1917. Serial No. 157,309. 4 Claims. (Cl. 200—137.)



4. A device of the class described comprising a thermostatic bar, a tongue pivoted at one end of said bar, contact points between which said tongue is movable and a spring mounted on said bar and tongue and bridging the pivot of said tongue and adapted to move said tongue quickly away from one of said contact points when said spring is moved past the center of the pivot of said tongue through the oscillation of said bar.

1,390,988. STAYBOLT STRUCTURE. ETHAN I. DODDS, Pittsburgh, Pa., assignor to Flannery Bolt Company, Pittsburgh, Pa. Filed Nov. 25, 1919. Serial No. 340,489. 1 Claim. (Cl. 85—1.5.)

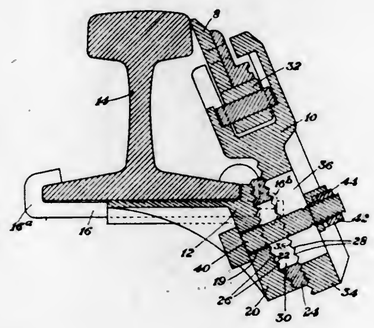


A mounting for a staybolt comprising a hollow member having its outer end permanently closed and open at the other end, said member having an enlarged portion at its closed end provided with a peripheral transversely curved face, whereby said member may have universally movable mounting in a boiler sheet, said member having an exterior portion at its inner end portion rounded lengthwise of said member and having an interior seat for the head of a staybolt, the wall of the opening at the inner end of said member being flaring.

1,390,989. ADJUSTABLE DETECTOR-BAR SUPPORT. CHARLES A. DUNHAM, St. Paul, Minn. Filed Mar. 25, 1920. Serial No. 368,529. Renewed Nov. 29, 1920. Serial No. 427,204. 8 Claims. (Cl. 246—151.)

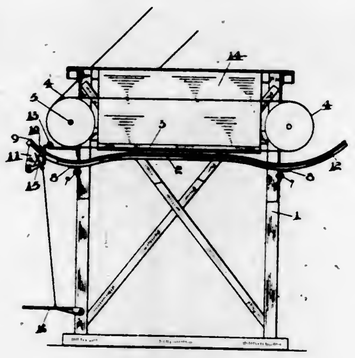
1. A support for a railway detector bar comprising a member fixed to a rail, a block having an inner surface

adapted to coöperate with the outer surface of said member for upward and downward movement thereover, one of said surfaces being concaved and the other being



convexed, a bracket supported by said block, and means for securing said block to said member in adjusted position.

1,390,990. APPARATUS FOR REMOVING EXCESS SPELTER FROM HOT GALVANIZED ARTICLES. CHARLES G. ERICSON, Toronto, Ontario, Canada. Filed Feb. 7, 1921. Serial No. 443,271. 10 Claims. (Cl. 91—59.1.



1. Aparatus for removing excess spelter from galvanized articles comprising a surface over which a portion of an article may be rolled; and a traveling surface cooperating with said first mentioned surface to effect said rolling movement.

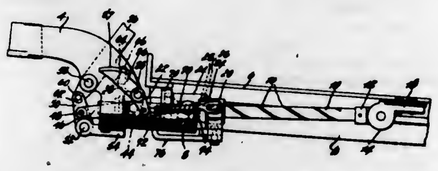
1,390,991. SHOE-CLOSURE. THEODOR FOTCHUK, Toronto, Ontario, Canada. Filed May 7, 1921. Serial No. 467,617. 3 Claims. (Cl. 24—140.)

3. An auxiliary shoe lacing device of the class described comprising a movable perforated member through which the shoe laces are passed on one side of a shoe, a casing secured to the shoe at the opposite side thereof, a slotted cover for said casing, a flanged rivet traveling in the slot of said cover, a toothed plate at the end of said member adapted to be introduced into said casing, a leaf spring normally resting upon the flange of said rivet above said toothed plate, and adapted to engage with its hooked end the teeth of said plate upon the displace-



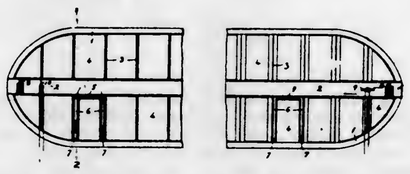
ment of said rivet in the slot of the cover, means for securing said casing to the shoe at the seam of the shoe uppers and means for securing the ends of the laces.

1,390,992. ELEVATING-TRUCK. DANIEL E. HENNESSY, Holyoke, Mass., assignor to Herbert W. Cowan, J. Lewis Wyckoff, and Edward N. White, trustees, doing business as The Cowan Truck Company. Filed Jan. 11, 1918. Serial No. 211,334. 7 Claims. (Cl. 254—2.)



1. In an elevating truck, the combination with a base having supporting and steering wheels and an elevating support movable up and down upon said base, of means for effecting the up and down movement, comprising a step-by-step jacket arranged and operating lengthwise of said base and a series of multiplying levers having their long arms projecting upward and swinging in front of said elevating support at the forward end of said truck and having their fulcra vertically spaced, said series of levers having a positive connection with said jack through which the oscillations of said levers are transmitted to said jack to effect the step-by-step movement thereof.

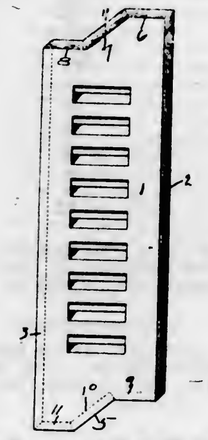
1,390,993. AIRSHIP. JEAN HEPPEL, Newark, N. J. Filed Sept. 26, 1918. Serial No. 255,763. 5 Claims. (Cl. 244—3.)



1. An airship comprising a rigid frame structure divided into a plurality of longitudinally arranged compartments and having an air well extending centrally and

longitudinally therethrough, bags within each compartment and arranged about the air well for containing a buoyant fluid and pockets arranged about each of said compartments for maintaining a charge of heavy fluid within each pocket to ballast the ship, means for admitting the heavy fluid within the pockets and means for releasing said fluid.

1,390,994. VENTILATED SILO-STAVE. HARRY B. JONES, Chicago, Ill., assignor to Permanent Products Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 26, 1920. Serial No. 406,055. 1 Claim. (Cl. 72—6.)

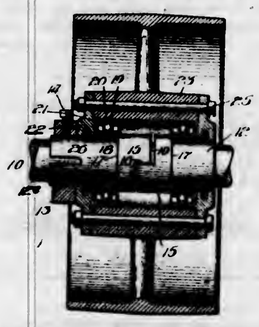


A ventilated stave comprising a slab of molded concrete, said slab having a plurality of ribs, there being openings through the stave intermediate said ribs, the upper wall of each rib being slanted downwardly and outwardly whereby the space intermediate said ribs is wide at the one surface of the slab and narrow at the other.

1,390,995. DISSOLVING CELLULOSE. ISIDOR KITSEE, Philadelphia, Pa. Filed Oct. 18, 1919, Serial No. 331,581. Renewed Aug. 4, 1921. Serial No. 489,903. 12 Claims. (Cl. 106—40.)

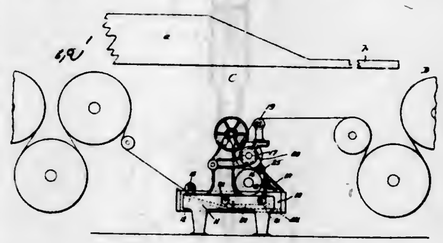
1. The process of dissolving cellulose which consists in subjecting the cellulose to be dissolved to a rubbing action in conjunction with copper in the presence of ammonia.

1,390,996. BALL-BEARING PULLEY. FREDERICK J. LEMLEY, Chicago, Ill. Filed Dec. 18, 1919. Serial No. 345,688. 10 Claims. (Cl. 64—17.)



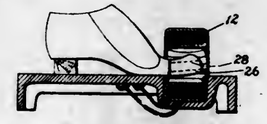
1. In a loose pulley, the combination of a shaft, sleeve sections mounted on the shaft and adjustable toward and from one another and having an interlocking engagement, a hub, concentric ball bearing runways interposed between the hub and the sleeve sections and flanges on the hub, bearing exteriorly against the outer runways.

1,390,997. PAPER-FEEDING MEANS FOR SIZE-TUBS. ARTHUR L. LITTLE and GEORGE W. VEROW, Brewer, Me., assignors to Eastern Manufacturing Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 4, 1921. Serial No. 435,047. 4 Claims. (Cl. 91—31.)



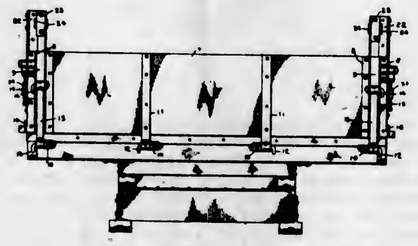
1. The combination with the first and second driers, and an intermediate sizing apparatus including squeeze rolls, of means for receiving the end of a sheet of paper and automatically carrying it under one of the squeeze rolls and presenting it to the nip of said rolls.

1,390,998. SHOE-HEATING DEVICE. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 19, 1920. Serial No. 359,983. 10 Claims. (Cl. 219—21.)



1. A last comprising a short circuited electrical conductor constructed and arranged to act as a transformer secondary.

1,390,999. TAIL-GATE FOR VEHICLES. OTTO MARKLEIN, Brooklyn, N. Y., assignor to William Oscar Shadbolt, New York, N. Y. Filed Feb. 15, 1921. Serial No. 445,068. 3 Claims. (Cl. 296—51.)



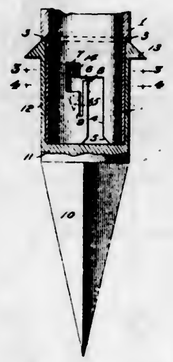
1. The combination with a vehicle carrying body; of a tail gate therefor and means adapted to pivotally secure said tail gate to said body; said means comprising swinging arms adapted to be pivotally attached at one end to said tail gate at a point above the lower edge thereof and to be pivotally attached at the other end to said carrying body at a point in or near the plane of the floor thereof or to be swung upward and pivotally attached to said body at a point substantially above the carrying floor thereof.

1,391,000. HYDROMETER. VERNON H. MEYER, Cleveland, Ohio. Filed Nov. 29, 1920. Serial No. 427,072. 3 Claims. (Cl. 265—45.)



2. The combination with a hydrometer barrel, bulb and float, of a cushion liner in the barrel, of sufficient extent to obscure a portion of the float and to prevent contact of the float with the wall of the barrel, said liner having holes through the same through which the position of the float may be seen.

1,391,001. SIGNPOST. JOHN JOSEPH MOORE, South Charleston, Ohio. Filed Apr. 10, 1920. Serial No. 372,841. 4 Claims. (Cl. 189—28.)



4. In a sign post the combination with a base member adapted to be driven into the ground and having a socket in its upper end, a keyhole in said socket, a detachable tubular post having its lower end fitted in said socket, interlocking means carried by the base member and post and concealed and inclosed within said socket and the lower end of said post, said means serving to lock the post to said base member, and means whereby said interlocking means may be released by a key inserted in the key hole.

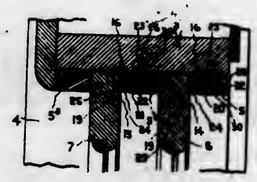
1,391,002. FISHING-SIGNAL. FRANK Z. MORIN, Sanford, Me. Filed Apr. 26, 1921. Serial No. 464,502. 2 Claims. (Cl. 43—17.)

2. In a fishing device and signal, a body, the said body having a chamber in its upper end and a reduced extension thereof, a rod guided in the extension and projecting through the chamber, a head carried by the rod, a spring for projecting the head and rod outwardly, a curved pin on the head, a latch having a looped portion to receive the pin, the said latch having an extension



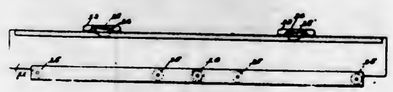
terminating in a hook, a line anchored to the body and having a portion looped over the hook whereby pull on the hook disengages the latch from the pin and releases the signal.

1,391,003. WEATHERPROOFING MEANS FOR WINDOW-SASHES. EDWARD A. NIX, Montreal, Quebec, Canada. Filed Nov. 21, 1919. Serial No. 339,593. 2 Claims. (Cl. 20—69.)



1. The combination with a wind frame including side posts, vertical window-stops removably secured to said posts, and a window sash slidably mounted within the frame and between the stops, of weather-proofing means consisting of a pair of strips one side edge of each of which is bent back upon itself in hook form to present a channel adapted to receive the bent-back edge of the other strip, means securing one strip upon the window sash and means securing the other strip on one of said stops, said strips being constructed and arranged to permit the removal of said stop and its strip as a unit without disturbing the means securing either of the strips in place and irrespective of the position of the window sash.

1,391,004. EXTENSION DRAWER-SLIDE. ENOCH OHNSTRAND, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass., a Corporation of New Jersey. Filed July 21, 1920. Serial No. 398,020. 10 Claims. (Cl. 45—77.)

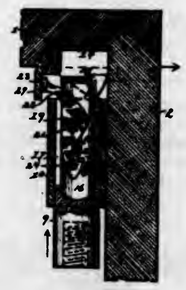


1. An extension drawer slide comprising a fixed slide member, an extension slide member of sheet material of substantially channel-like cross section telescoping within the fixed slide member and capable of being extended beyond the end thereof in either direction; and a drawer slide member movable on the extension slide member and capable of being extended beyond the end thereof in either direction.

6. An extension drawer slide comprising a fixed slide member, an extension slide member movable on the fixed slide member and capable of being extended beyond the end thereof in either direction, a drawer slide member movable on the extension slide member and capable of being extended beyond the end thereof in either direction, and hook members upon the drawer slide adapted to carry the extension slide with the drawer slide when the latter is returned from extended position to normal position, the hook members being disengaged from the extension slide in the normal position.

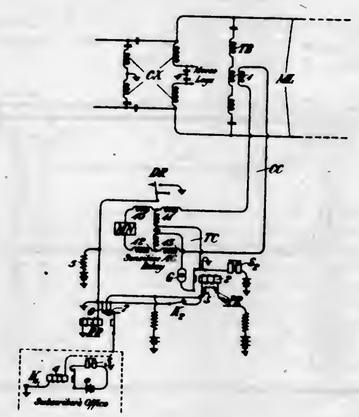
9. An extension drawer slide comprising a fixed slide member, an extension slide, and a drawer slide, the fixed slide member comprising an outwardly faced channel shaped member adapted to be attached to a desk and carrying horizontal rollers in the lower portion of the channel, the extension slide comprising an outwardly faced channel shaped member adapted to fit within the fixed slide and rest upon the rollers carried thereby, and being adapted to move upon the rollers in either direction so as to be extended beyond either end of the fixed slide, and the drawer slide comprising an inwardly faced channel member adapted to interfit with the extension member, and being movable upon the extension member in either direction so as to be extended beyond the end thereof in either direction.

1,391,005. DOOR-LOCK. CHARLES G. PALMER, Newark, N. J. Filed Mar. 26, 1919. Serial No. 285,189. Renewed Mar. 14, 1921. Serial No. 452,231. 4 Claims. (Cl. 292—92.)



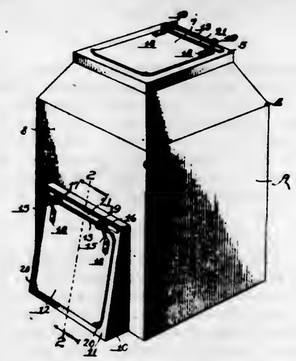
1. The combination with a door and its frame, a rod or bar adapted to be mounted on the door, a lever pivotally connected to said rod or bar for moving the said rod from its normal position, housings secured to the door, a bolt provided with a recess slidably arranged within one of said housings and connected with said rod at one end thereof, said bolt being provided with an integral laterally arranged lock bolt, a trigger pivotally secured and located within the recess of said bolt, a socket member for the bolt provided with an open end, said socket member being provided with a downwardly extending lug to be engaged by one end of said trigger, and provided further with two downwardly extending lugs designed to have holding and locking engagement with the said lock bolt, whereby the movement of the rod in one direction causes the lock bolt to become disengaged from the holding lugs to withdraw the same from said socket member.

1,391,006. HALF-DUPLEX ALTERNATING-CURRENT TELEGRAPH SYSTEM. RALZEMOND D. PARKER, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 8, 1919. Serial No. 322,268. 3 Claims. (Cl. 178—71.)



1. In a signaling system, a transmission circuit, means for signaling by carrier currents over said circuit, comprising a differential receiving relay, a transmitting circuit including a source of carrier current, said transmitting circuit being so arranged that transmitted energy does not affect the differential receiving relay, a subscriber's loop, a transmitting key therein, a sounder associated therewith and controlled by said receiving relay, a pole changing relay responsive to said key, for controlling said carrier currents, and means to prevent the actuation of said pole changing relay by said receiving relay, in response to received signals.

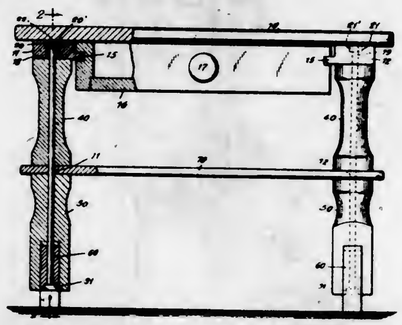
1,391,007. DOOR-HINGE. PAUL PERSSON, Chicago, Ill., assignor to Sanitary Garbage Box Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 17, 1920. Serial No. 431,340. 1 Claim. (Cl. 16—128.)



A hinge construction for attaching a door to a receptacle consisting of a flat bar engaging the face of said receptacle adjacent to said door, companion I-bolts passing through said bar and through the wall of said receptacle and being held in place by means engaging the inner face

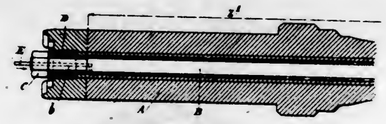
of the receptacle, the eye of said bolts engaging against said bar, a hinged rod extending parallel to the upper edge and substantially the full width of said door and passing loosely through said I-bolts and having its ends bent downwardly and secured to the door.

1,391,008. CHILD'S TABLE. HENRY E. RICHMOND, Bennington, Vt. Filed Apr. 27, 1920. Serial No. 376,898. 5 Claims. (Cl. 45—31.)



1. In a structure of the class described, a top portion, drawer supporting means secured to the underside thereof, a nut rigidly secured in a socket of said drawer supporting means, a leg for said structure, and a metallic rod in said leg, said rod having a threaded portion adapted to engage said nut and having a head portion fitting a socket in said leg and rotatable by said leg.

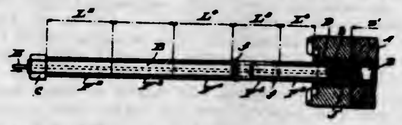
1,391,009. PROCESS AND APPARATUS FOR THE MANUFACTURE OF METAL TUBES BY THE SELF-HOOPING PROCESS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 31, 1919. Serial No. 286,501. 20 Claims. (Cl. 29—1.11.)



1. The process of treating metallic tubes to shape and to strengthen the wall thereof, consisting in subjecting the interior of the tube to successive charges of reforming fluid-pressure initially introduced in one end of the tube and progressively increasing the areas of application of the successive charges toward the other end of the tube, the fluid of each preceding charge being retained in the tube and the fluid of the succeeding charge added thereto.

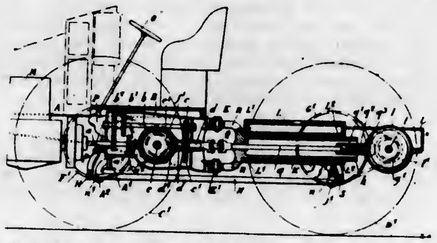
1,391,010. APPARATUS FOR THE MANUFACTURE OF METAL TUBES BY THE SELF-HOOPING PROCESS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Original application filed Mar. 31, 1919, Serial No. 286,501. Divided and this application filed Nov. 3, 1920. Serial No. 421,468. 9 Claims. (Cl. 29—1.11.)

1. An apparatus for treating metallic tubes to shape and to strengthen the same comprising means for closing one end of the tube to be treated, means for charging fluid-pressure into the closed end of the tube, a head movable in the tube in advance of the fluid-pressure to confine the latter to a predetermined zone of application, a mandrel entering the tube and carrying the movable head, and a series of displaceable sleeves carried by the mandrel outside of the tube and coöperating with a holding means and the mandrel to hold the head against the



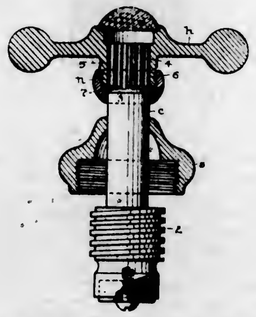
thrust of a fluid-pressure charge, the displacement of the sleeves from the mandrel controlling the advance of the head and the length of a displaced sleeve determining the advance of the head in the next charge of fluid-pressure.

1,391,011. TRACTOR HAVING TWO PAIRS OF DRIVING-WHEELS. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed Mar. 26, 1921. Serial No. 455,948. 5 Claims. (Cl. 180—50.)



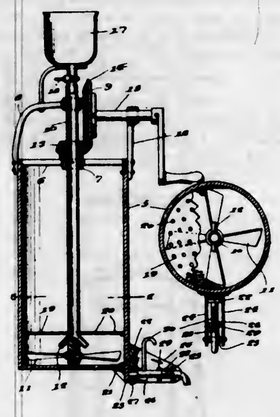
1. A tractor comprising a pair of trucks provided with driving wheels, means pivotally and slidably connecting said trucks and providing for relative movement therebetween, and means for maintaining a constant distance between the axles of said trucks on relative movement of the latter.

1,391,012. COCK OR FAUCET. FRED SCHULDER, Cleveland, Ohio, assignor to United Brass Manufacturing Company, Cleveland, Ohio, a Partnership composed of Wm. J. Schoenberger and Benjamin F. Klein. Filed Oct. 11, 1920. Serial No. 416,163. 2 Claims. (Cl. 251—45.)



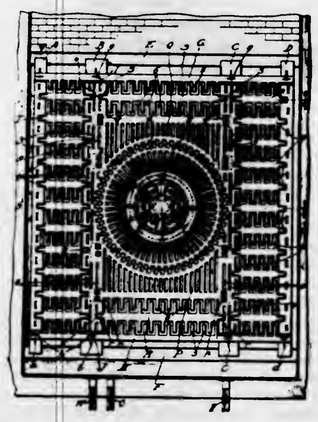
1. In a cock or faucet, a valve stem having a fluted extremity and an annular groove below its fluted portion, a handle adapted to be rotatably adjusted on said stem and having a hub with external screw threads at its bottom, a split ring in said groove and a nut engaging said ring from below and screwed on to said hub avove said ring, whereby said stem and handle are locked rigidly together.

1,391,013. MIXING-MACHINE. JOSEPH W. SCHWAGER, Utica, Minn. Filed Mar. 3, 1921. Serial No. 449,290. 2 Claims. (Cl. 259—23.)



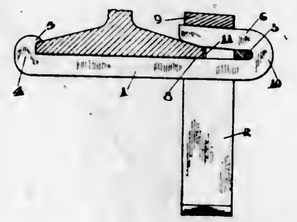
1. A mixing apparatus comprising a container, a hollow shaft rotatably mounted vertically within the container and having discharge spouts near its lower end, mixing blades carried by the shaft below the discharge spouts and constructed to direct streams upwardly, a perforated partition for the container disposed horizontally above the spouts and means for rotating the shaft.

1,391,014. FURNACE-GRATE. JOHN T. SIMPSON, Chicago, Ill., assignor to Economy Sales Company, Chicago, Ill., a Corporation of Illinois. Original application filed Sept. 23, 1916, Serial No. 121,709. Divided and this application filed Aug. 19, 1918. Serial No. 250,467. 7 Claims. (Cl. 126—176.)



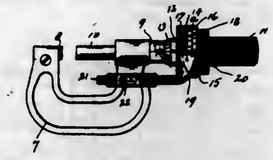
5. In a furnace grate, the combination of parallel rows of rocking bars, stationary means forming part of the grate surface and having four portions extending in opposite directions therefrom, provided with bearings for said rocking bars, a single rocking bar between two of said portions, a single rocking bar between the other two portions, stationary bars forming bearings for the outer ends of said rows of rocking bars, and stationary bars extending transversely of said rows, said stationary bars being all connected to form a rectangular outer frame for the grate.

1,391,015. CLAMP. FREDERICK L. H. SIMS, Toronto, Ontario, Canada. Filed Feb. 12, 1921. Serial No. 444,511. 9 Claims. (Cl. 238—324.)



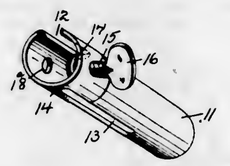
1. A clamp comprising a reach bar adapted to span the flange of a structural steel member; a cramp bar guided on the reach bar and extending in a direction normal to the surface of the flange of said structural member to serve as an abutment member, said cramp bar having a notch formed therein adapted to wedge over an edge of the aforesaid flange; and means engaging the reach bar adapted to force the cramp bar into engagement with the said flange.

1,391,016. MICROMETER. WILLIAM T. SLIDER and HAROLD R. SLIDER, Indianapolis, Ind. Filed Jan. 5, 1921. Serial No. 435,078. 7 Claims. (Cl. 33—166.)



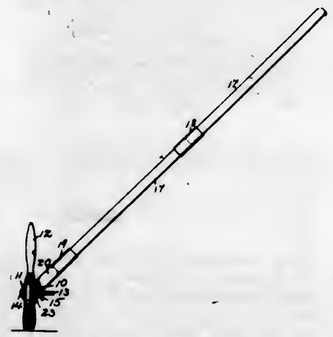
1. A micrometer gage frame having a graduated sleeve, a spindle adjustably mounted in the sleeve and having a sleeve with an index scale coöperating with the graduations of the sleeve on the frame, a graduated ring adjustably mounted on and surrounding the sleeve of the spindle and having a circumferential scale, a second graduated ring adjustably mounted on the first ring, and an index blade mounted on the frame and coöperating with both graduated rings without obscuring the graduations of the sleeve on the frame or the index scale of the sleeve of the spindle.

1,391,017. BRUSH-HOLDER. FRIEDRICH SOHNLE, Newark, N. J. Filed July 19, 1920. Serial No. 397,500. 1 Claim. (Cl. 306—2.)



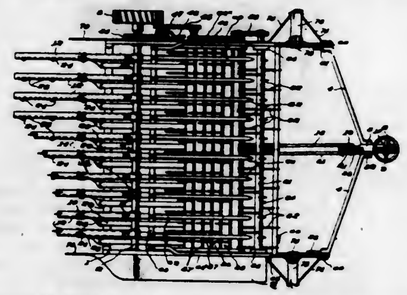
A brush holder comprising a tubular member having a narrow slot in one side extending from one end part way of the length of the member and having a long narrow slot on the side opposite the first slot, the second slot terminating short of the end of the member and extending a material distance beyond the inner end of the first slot, and a binding screw screwed through one wall of the member and adapted to press against the handle of a brush held in the slots.

1,391,018. BRUSH-HOLDER. FRIEDRICH SOHNLE, Newark, N. J. Filed July 19, 1920. Serial No. 397,501. 2 Claims. (Cl. 15—54.)



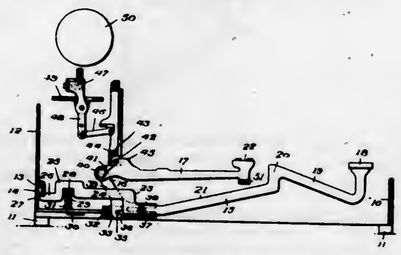
1. A brush holder comprising a rear plate having its lower edge sharpened, a front plate, a bolt passing through both plates, a wing nut on the bolt to clamp the plates together, and a handle secured to the rear plate and inclined upwardly therefrom, the plates forming a clamp for a brush, and when assembled without a brush forming a scraper.

1,391,019. STRAW-SPREADER. HENRY A. SORENSON, Harvey, N. D. Filed Mar. 24, 1919. Serial No. 284,692. 11 Claims. (Cl. 198—88.)



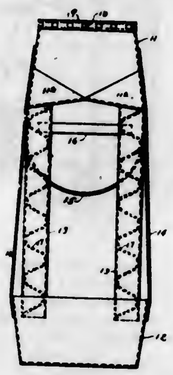
1. In a straw spreader, the combination of carrying means, means for receiving the straw from the carrying means, adjustable means slidably carried by the carrying means for feeding the straw from said carrying means to said receiving means.

1,391,020. TYPEBAR-ACTION. CHARLES SPIRO, New York, N. Y., assignor to Gourland Typewriter Corporation, New York, N. Y., a Corporation of New York. Filed Jan. 4, 1919. Serial No. 269,604. 9 Claims. (Cl. 197—22.)



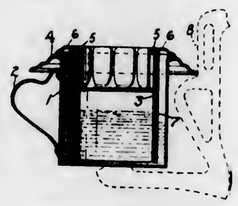
1. A type bar action comprising a key lever pivoted adjacent the rear of the typewriter, a type bar pivotally mounted at a point above said key lever, a bell crank lever swinging about a fixed pivot positioned below said key lever, a pin and slot connection between said key lever and one arm of said bell crank lever, and a pin and slot connection between the other arm of said bell crank lever and said type bar, whereby the height of said type bar action is materially decreased.

1,391,021. FEED-BAG FOR HORSES. LAKE H. SPRINKLE, Brooklyn, and MORRIS GREENMAN, New York, N. Y. Filed Oct. 1, 1920. Serial No. 414,078. 2 Claims. (Cl. 119—65.)



1. A feed bag for horses comprising an upper receptacle for the feed, adapted to rest on the crest of the horse's head, a lower receptacle suspended from said upper receptacle and adapted to reach to the mouth of the horse thereunder, a means for securing said upper receptacle in place on the crest of the horse's head and a means for passing the feed from said upper receptacle to said lower receptacle.

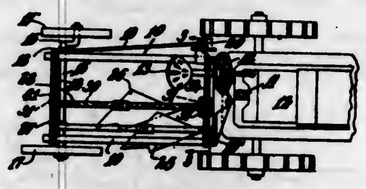
1,391,022. LIQUID-FUEL BURNER. AUGUST C. STORCK, St. Louis, Mo. Filed Jan. 27, 1921. Serial No. 440,411. 2 Claims. (Cl. 158—72.)



1. A liquid-fuel burner comprising an open top container, a central tubular member spaced from the wall of the container and open at the top, said central member being provided with an annular flange disposed over the container, the central member being further provided with heating chambers arranged on the inside thereof, and a series of burner openings disposed above the space between said member and container, and a tubular wick wrapped about the central member.

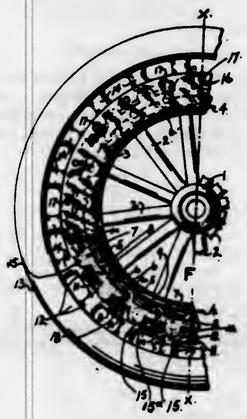
1,391,023. AGRICULTURAL IMPLEMENT. STEPHEN SZUCS, Homestead, Pa., assignor of one-third to Andrew Dudas, Homestead, Pa. Filed Oct. 5, 1920. Serial No. 414,847. 3 Claims. (Cl. 97—36.)

1. In an agricultural implement, a plow, a longitudinal bar on which said plow is fixed, a shaft passing freely through said bar from end to end thereof, gear pinions on the ends of said shaft, transverse racks upon which said gear pinions rest, transverse guide elements adjacent said racks, oppositely extending lugs on the said bar adapted to



engage said guide elements, a pair of oppositely facing ratchet wheels on said shaft, and a lever loosely fulcrumed on said shaft and having a pair of pawls mounted thereon to engage the said ratchet wheels.

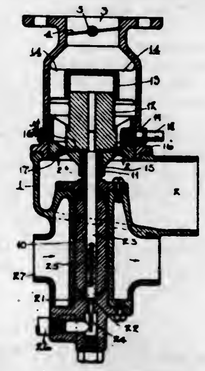
1,391,024. CUSHIONED VEHICLE-WHEEL. JOHN EDWARD THEBAUD, Buffalo, N. Y., assignor to S. Johnstone and Company, Inc., Buffalo, N. Y., a Corporation of New York. Filed July 5, 1919. Serial No. 308,746. 5 Claims. (Cl. 152—29.)



1. A vehicle wheel comprising three coöperating portions, each occupying a zone in said wheel concentric with its center, the innermost portion being rigid the outermost portion being flexible and the intermediate portion being more flexible than the outermost portion, said intermediate portion having toothlike parts fitting into corresponding notches in the periphery of the said innermost portion, and also having toothlike portions fitting corresponding notches in the outermost portion, said intermediate portion being made up of a series of linked parts adapting the said parts to be transversely separated or assembled, and means inclosing said intermediate portion and attached to one of the remaining portions whereby any transverse strain on said wheel tending to distort the parts is resisted.

1,391,025. CARBURETER. JAMES J. TRACY and LAWRENCE H. MORSE, Cleveland, Ohio; said Morse assignor to said Tracy. Filed Apr. 23, 1917. Serial No. 163,770. 6 Claims. (Cl. 261—44.)

1. In a device of the character described, the combination of a tubular casing having an air inlet opening; a fuel suply duct with a nozzle rising centrally within said casing; an annular, vertically adjustable valve seat fitted within said casing; and a central, vertically reciprocable valve slidably fitting within said annular valve seat and adapted to be raised by the suction of the engine, said seat being adjustable without affecting the normal position of



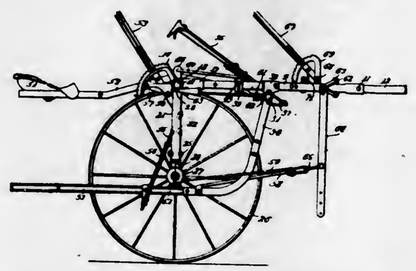
said valve and the latter being recessed in its under face to fit around said nozzle and having radial discharge passages communicating with such recess.

1,391,026. SCREENING AND CONCENTRATING DEVICE. HERBERT B. WALLING, Salt Lake City, Utah. Filed June 2, 1920. Serial No. 385,912. 3 Claims. (Cl. 83—56.)



1. A screening device of the class described comprising a floor having a plurality of openings therein, agitating plates pivotally carried below said openings, means for oscillating said plates, and means for vertically adjusting the pivot point of said plates.

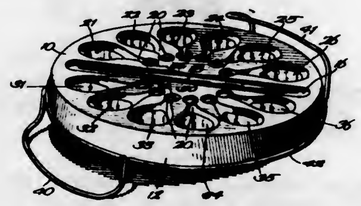
1,391,027. CULTIVATOR. LEWIS E. WATERMAN, Rockford, Ill., assignor to Emerson-Brantingham Company, Rockford, Ill., a Corporation of Illinois. Filed Oct. 10, 1917. Serial No. 195,684. 10 Claims. (Cl. 97—35.)



1. In a cultivator, the combination of a frame, a wheel arch, a wheel connected with each depending upright portion of the wheel arch in such manner as to be capable

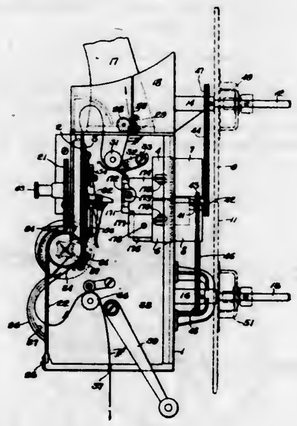
of turning about the upright axis thereof and to be movable forwardly and backwardly with respect to the frame about the horizontal axis of said arch, a cross bar mounted upon and slidable laterally with respect to the frame in front of the wheel arch, shovel gangs attached to the cross bar so as to be movable laterally therewith, a connection between each depending portion of the wheel arch and the adjacent end portion of the cross bar for angling the wheels when the cross bar is moved laterally and permitting the wheels to be moved forwardly and backwardly independently of movement of the cross bar, a connection between the shovel gangs and wheels for moving the latter forwardly and backwardly upon lowering and raising the shovel gangs, means for moving the cross bar laterally, and means for raising and lowering the shovel gangs.

1,391,028. ARTIST'S COLOR-BOX. CARL N. WERNTZ, Chicago, Ill. Filed May 2, 1919. Serial No. 294,305. 8 Claims. (Cl. 41—5.)



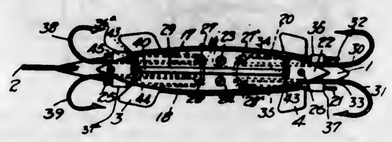
1. A color box having on its working surface a plurality of paint receptacles and their correlated larger mixing wells so arranged that when half of the receptacles are stocked with warm colors and the other half are stocked with cool colors, each group is on one side of a given line and the complementary colors in each group are opposite each other.

1,391,029. CINEMATOGRAPHIC MULTIPLEX PROJECTION, &c. WILLIAM BURTON WESCOTT, Wellesley Hills, Mass., assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 20, 1917. Serial No. 149,791. 6 Claims. (Cl. 88—16.4.)



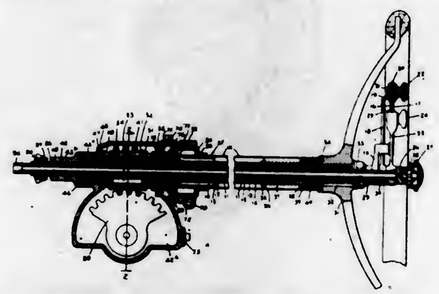
1. Cinematographic apparatus comprising a film passage having a plurality of picture apertures in longitudinal alinement therealong, runners engaging one side of the film near the edges throughout the region of the apertures, and means intermediate the apertures for yieldingly urging the runners against the film, thereby to maintain the film against one side of the film passage throughout the said region.

1,391,030. FISH-DECOY BAIT. GEORGE WASHINGTON WHEELER, LEFROY, Ontario, Canada. Filed Oct. 10, 1919. Serial No. 329,847. 7 Claims. (Cl. 43—35.)



4. In a decoy fish bait, the combination with the decoy body, of a pair of fish hook members swung at their inner ends upon the body of the decoy fish bait at one side of its longitudinal center, resilient means tending to swing the fish hooks from a position in longitudinal alinement with the decoy bait body to a position at right angles to the decoy bait body, means extending longitudinally of the decoy body and protruding from the face of the body for locking the hooks in their longitudinal alined position against the resilient pressure, and means for releasing such locking means operated by the gripping of the decoy in the jaws of the fish.

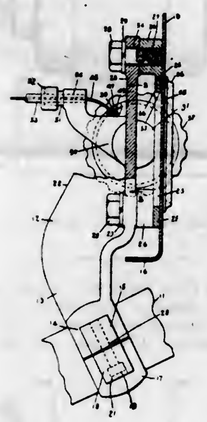
1,391,031. STEERING MECHANISM FOR MOTOR-VEHICLES. D'ORSAY MCCALL WHITE, Indianapolis, Ind., assignor to La Fayette Motors Company, Indianapolis, Ind., a Corporation. Filed Feb. 24, 1920. Serial No. 360,895. 2 Claims. (Cl. 74—39.)



2. In a steering mechanism for motor vehicles and the like the combination with a steering mast, a steering column tube concentric therewith and surrounding said mast, and a housing positioned adjacent the base of said mast and tube and surrounding the end thereof, of a nut secured in said housing and concentric with said mast and tube and surrounding the same, a pair of of annular bearings engaging said tube to center the same, a sleeve positioned between said tube and said nut bearing, and a second sleeve positioned between said tube and said mast within said bearings, said tube and said sleeves being provided with registering openings and said nut bearing and the inner of said sleeves being provided with concentric annular channels, said channels communicating with said registering openings, and said sleeve channel discharging adjacent said mast to lubricate the same.

1,391,032. AUXILIARY AIR CONTROL. D'ORSAY MCCALL WHITE, Indianapolis, Ind., assignor to La Fayette Motors Company, Indianapolis, Ind., a Corporation. Filed Feb. 24, 1920. Serial No. 360,897. 5 Claims. (Cl. 180—77.)

1. An auxiliary air controlling mechanism including in combination an instrument board, a supporting bracket for said mechanism positioned upon said board and adjacent slot therein, an annular actuating disk rotatably mounted upon said supporting bracket, said disk having a portion of its periphery extending forwardly through



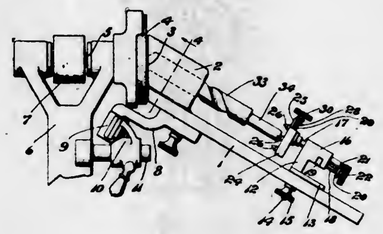
said slot exposed for actuation, and means associated with said rotatable disk and supported by said bracket for controlling the auxiliary air supply to an internal combustion engine or the like.

1,391,033. KNITTING-NEEDLE UNIT. J. FRANK WILCOMB, Norristown, Pa., assignor, by mesne assignments, to Spartan Needle Company, Providence, R. I., a Corporation of Rhode Island. Filed Apr. 12, 1919. Serial No. 289,691. 30 Claims. (Cl. 66—5.)



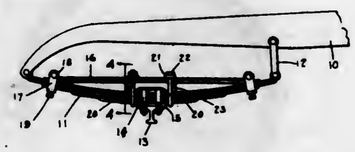
1. A knitting instrument comprising a hooked yarn drawing element, and a loop spreading element, the latter having a point to penetrate the loop at the back of the hooked yarn drawing element, and there initiate the spreading of the loop for casting over the hook, substantially as described.

1,391,034. DRILL-HOLDER. ARTHUR WILLIAMS, Grand Rapids, Mich., assignor to Wilmarth & Morman Company, Grand Rapids, Mich., a Corporation of Michigan. Filed Sept. 7, 1920. Serial No. 408,496. 5 Claims. (Cl. 51—219.)



1. A drill holder comprising an elongated supporting bar formed at one end with angular disposed sides making a V-shaped trough to receive the end of the drill to be ground, a bracket slidably mounted on the bar adjacent the other end thereof, a rod passing through the bracket above the bar, means to adjust said rod lengthwise to different positions, a guide block on the inner end of the rod, a slide adjustably mounted on the guide block and adjustable vertically with respect thereto, means for adjusting the slide to different positions, and a plurality of spaced apart centers extending one over the other from the slide, said guide block at one side of the slide carrying a measuring scale for directing the extent of adjustment of the slide, and said slide being provided with an indicating mark for use in relation to said scale, substantially as and for the purposes described.

1,391,035. SHOCK-ABSORBER. JAMES WOOD, Noblesville, Ind. Filed Jan. 30, 1920. Serial No. 355,129. 1 Claim. (Cl. 267—45.)

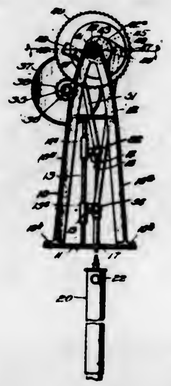


In combination with a shock absorber for a vehicle including a semi-elliptic body spring, and an auxiliary spring positioned adjacent the body spring for opposing the rebound thereof, and means for securing the central portion of said springs together, of a clamp for securing the opposite ends of said auxiliary spring to the body spring, including a roller bearing mounted in said clamp for permitting the longitudinal movement of said auxiliary spring with respect to said vehicle spring, and an adjustable lock bolt adapted to screw through the opposite end of said clamp from said roller into engagement with the vehicle spring for rigidly clamping said clamp thereto, whereby said clamp may be adjustable to vehicle springs of varying thicknesses.

1,391,036. POWER-DRIVEN PUMP. DE WITT EDWARD YATES, Chippewa Falls, Wis. Filed May 16, 1919. Serial No. 297,612. 11 Claims. (Cl. 103—82.)

1. The combination in a pump, of a rotary driving element, a controlling element mounted adjacent said driving element and adatped to rotate about an axis eccentric to said driving element, and a driven element having a slid-

ing connection with said driving element and adapted to have its position varied with respect to the axis of said

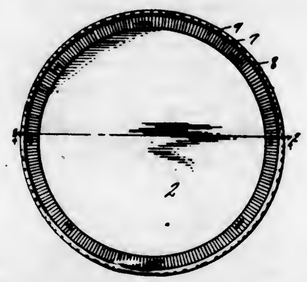


driving element by the operation of said controlling element.

1,391,037. SOAPSTONE EQUIVALENT. EVERETT TOWNSEND YOUNG, Peekskill, N. Y. Filed June 29, 1920. Serial No. 392,791. 3 Claims. (Cl. 106—10.)

1. Blocks for self-cookers composed of a kaolin blended with a pulverized fired kaolin and fired at a high temperature, having the heat retaining qualities of soapstone.

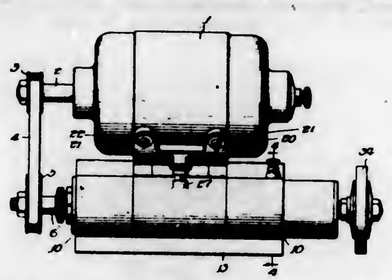
1,391,038. BOX. ERNEST ZEIDLER, Marshfield, Wis. Filed Feb. 7, 1921. Serial No. 443,024. 2 Claims. (Cl. 217—5.)



1. The combination with a cylindrical box comprising a body portion and a cover, said cover having its flange secured thereto by means of a metallic band substantially right angularly shaped and having one of its flanges secured to the upper surface of the cover and the other flange secured to the cover flange, of an annular bead formed at the angling point of the metallic band and extending upwardly, said annular bead being of substantially the same interior diameter as the diameter of the bottom of the box, and adapted to receive the bottom of a superimposed box and hold the same against lateral displacement while in transit.

1,391,039. ELECTRIC GRINDER. CHESTER H. BEACH, Racine, Wis., assignor to Wisconsin Electric Company, a Corporation of Wisconsin. Filed May 23, 1919. Serial No. 299,315. 12 Claims. (Cl. 51—259.)

1. A universal grinder comprising a housing, a grinder spindle rotatably mounted therein, and an electric motor mounted to swing about said housing whereby it may be



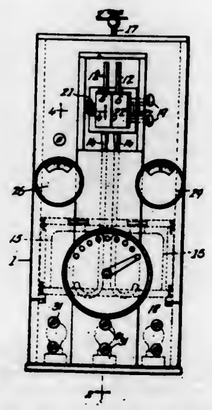
adjusted to different radial positions with reference thereto.

1,391,040. OIL-PAN HEATER. ALBERT E. BERDON, Detroit, Mich., assignor to Dodge Brothers, Detroit, Mich., a Corporation of Michigan. Filed July 29, 1920. Serial No. 399,800. 3 Claims. (Cl. 184—104.)



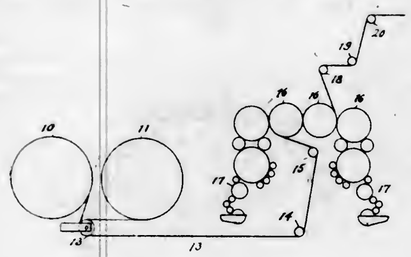
3. An oil pan heater adapted for use in internal combustion engines, said heater having an outer shell and an inner shell, the outer shell being closed at its inner end and connected with the heat supply at its outer end, the inner shell having an open end terminating short of the inner end of the outer shell, the outer end of the inner shell being open to the atmosphere, and a valve controlling a supply of heat to said outer shell.

1,391,041. SIZING-TESTER. HENRY G. BOON, Appleton, and CHARLES ALBERT FOURNESS, Neenah, Wis., assignors to Kimberly-Clark Company, Neenah, Wis., a Corporation of Wisconsin. Filed Aug. 23, 1920. Serial No. 405,506. 5 Claims. (Cl. 175—183.)



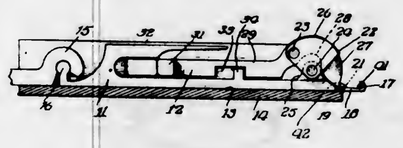
2. The method of testing paper and like material which comprises clamping the paper in a block, introducing a separate charge of liquid into the block at each side of the paper, passing an electrical current through a circuit in which the paper and two charges of liquid are interposed, and measuring the current flowing in the circuit.

1,391,042. PAPER-MEASURING ATTACHMENT FOR PRINTING-PRESSES. BASIL BREWER, Cleveland, Ohio. Filed Mar. 6, 1920. Serial No. 363,679. 3 Claims. (Cl. 101—220.)



1. The combination with a printing press adapted to accommodate paper in roll form, and having a plurality of rolls around which the paper passes as it travels through the press, including a yieldable roll which may yield under varying tension of the paper, of a measuring attachment operatively connected to such roll.

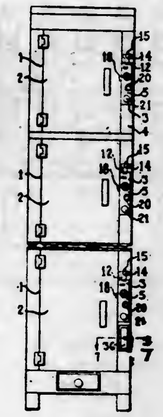
1,391,043. NEEDLE FOR KNITTING-MACHINES. WILSON WORTH BURSON, Rockford, Ill., assignor to B. Z. B. Knitting Co., Rockford, Ill., a Corporation of Illinois. Filed Aug. 4, 1917. Serial No. 184,408. 9 Claims. (Cl. 66—5.)



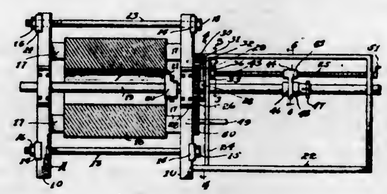
1. A needle for knitting machines, comprising a knitting hook and a lifting hook and a pivot arm connecting the two, said pivot arm lifting the lifting hook as the knitting hook moves on its knitting stroke to raise the old loop above and over the new.

1,391,044. LOCKER. RALEIGH B. BUZZAIRD, Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y., a Corporation of New York. Filed July 17, 1920. Serial No. 397,121. 3 Claims. (Cl. 45—37.)

1. In a locker, the combination with a structure forming a vertical row of compartments with doors, and locks for said doors mounted removably in the frame of the structure at one side of the door openings, of individual catches in the frame for holding said locks in place, a common rod separate from the catches for holding and releasing the same, and a lock controlling said rod.



1,391,045. PORTABLE BORING-BAR. WALTER F. CHELLBERG, Chicago, Ill. Filed Nov. 2, 1918. Serial No. 260,803. 3 Claims. (Cl. 77—2.)

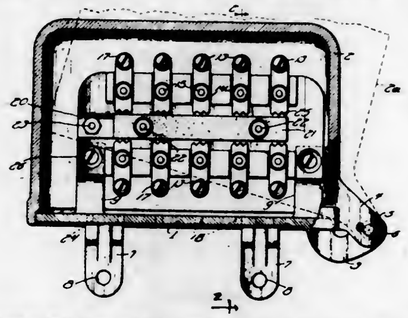


1. In a machine of the type described, the combination with a power wheel, a main shaft therethrough and carrying a tool, a feed screw, and connections between the screw and shaft for advancing the tool with respect to the work; of a ratchet gear fast on the screw, a rock shaft means for oscillating it by the rotation of said wheel, crank on said shaft, a head connected therewith and having an axial bore and a longitudinal slot intersecting the bore and provided with lateral notches, a dog reversibly mounted within said bore and having a beveled tip, and a lug on the dog engaging said slot and notches, as described.

1,391,046. LIGHTNING-ARRESTER. WALLACE L. COOK, Chicago, Ill. Filed Sept. 2, 1919. Serial No. 321,129. 8 Claims. (Cl. 175—30.)

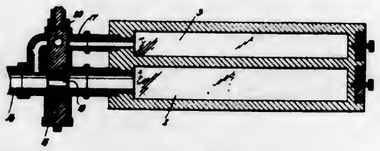
1. A device of the character described comprising an insulating member, a plurality of rows of discharge plates arranged side by side carried thereby, and a base member supporting the insulating member, said base member

having a row of openings therein in line with said discharge plates to space and position a plurality of wires



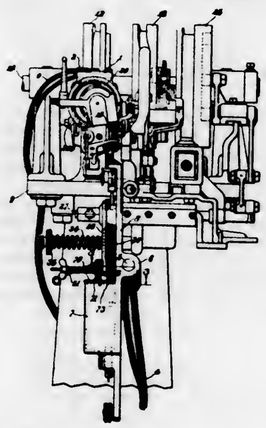
and maintain them in respective positions relatively to the discharge plates.

1,391,047. DOUBLE OIL-BURNER. FERNANDO COTERA, Central Feliz, Cuba. Filed July 5, 1919. Serial No. 308,900. 7 Claims. (Cl. 158—75.)



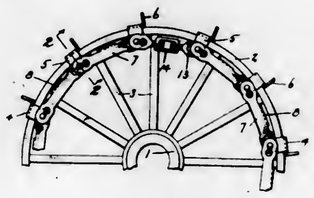
2. In an oil burner, a plurality of independent compartments of varying capacity for the discharge of fuel, means for creating an injector action in said compartments, and means arranged outside of said fuel compartments for selectively placing said fuel compartments in operation.

1,391,048. HEATING SYSTEM FOR WAX-THREAD SEWING-MACHINES. STEPHEN A. DOBYNE, St. Louis, Mo., assignor to Champion Shoe Machinery Company, St. Louis, Mo., a Corporation of Missouri. Filed Feb. 10, 1917. Serial No. 147,941. 7 Claims. (Cl. 112—41.)



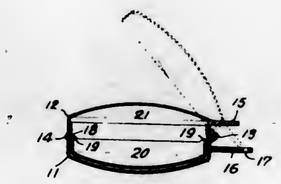
1. In a wax-thread sewing machine, having a machine ad and having thread controlling mechanism including a take-up member having a thread-engaging part, the employment of a metallic carrier mounted on said head and supporting said member, said member having a linearly sliding thermal contact with said carrier, and electrical resistance heating means mounted on and in thermal contact with said carrier and adapted to heat said member through its sliding contact with said carrier.

1,391,049. GROUTER DEVICE FOR TRACTOR-WHEELS. FRED EVANS, Summit, N. J., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Apr. 2, 1919. Serial No. 286,922. 3 Claims. (Cl. 301—40.)



1. In a grouter attachment for wheels, a plurality of body members engaging the thread of the wheel and having earth-gripping elements extending outwardly therefrom, laterally extending pins carried by said body members and provided with heads thereon and links provided with slots receiving said pins, said slots being enlarged at an end thereof whereby said links may be detachably and loosely connected to said body members.

1,391,050. VANITY-CASE. FRANCIS A. FAIRBAIRN, Montreal, Quebec, Canada, assignor to Palmers Limited, Montreal, Quebec, Canada. Filed Feb. 2, 1920. Serial No. 355,675. Renewed Mar. 31, 1921. Serial No. 457,422. 2 Claims. (Cl. 220—36.)



1. In a device of the class described, a receptacle having an internal groove, a removable pan within the receptacle, having outwardly projecting ears to engage the groove and hold the pan within the receptacle, said receptacle being compressible to effect releasement of the ears from the groove and permit removal of the pan.

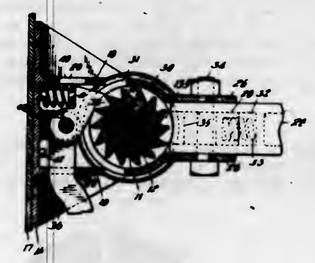
1,391,051. ROTARY BRUSH. CLINTON E. FROST, East Cleveland, Ohio, assignor to The Cleveland-Osborn Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed June 24, 1918. Serial No. 241,462. 3 Claims. (Cl. 15—37.)

1. A rotary brush section comprising a base ring, brush material looped upon said ring, two other rings of larger diameter than and concentric with said base ring and contacting with said material on the respective sides thereof radially beyond and wholly clear of said base ring, and means passing through said material at spaced intervals



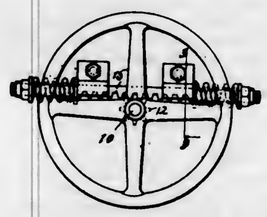
and locking said last-named rings together, whereby the loops of material are tied together and secured in place on said base ring.

1,391,052. REVERSIBLY-OPERABLE HAND-BRAKE. WILLIAM A. GEIGER, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed July 12, 1920. Serial No. 395,429. 4 Claims. (Cl. 74—115.)



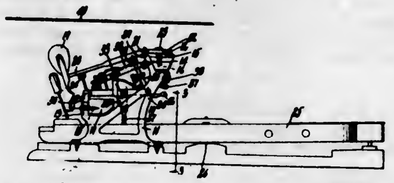
1. In a hand brake, the combination with an element adapted to be rotated to effect tightening of the brake chain; of a ratchet wheel associated with said element and adapted to be positioned with respect thereto to have the ratchet teeth thereof face in either direction; of a pawl coöperable with said ratchet wheel, the operative position of the pawl being also reversible; a supporting bracket; and a locking dog mounted on the bracket and cooperable with the ratchet wheel, the operative position of said locking dog on the bracket being also reversible.

1,391,053. STEERING-GEAR ATTACHMENT. ANTON F. GREINER, Cleveland, Ohio, assignor to The Cleveland Tractor Company, Euclid, Ohio, a Corporation of Ohio. Filed July 2, 1920. Serial No. 393,582. 3 Claims. (Cl. 74—33.)



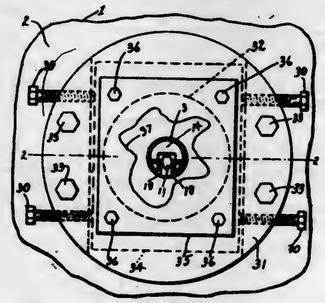
1. The combination with the rotatable steering post of a motor vehicle, of a gear secured thereto, a rack bar mounted to slide endwise in engagement with said gear, and opposed springs acting on said rack bar to move it endwise and return it to the position in which the springs balance each other.

1,391,054. BRACKET FOR GRAND-PIANO ACTIONS. CHARLES W. HALL, Wakefield, and FRANK E. WHEELER, Belmont, Mass., assignors to Henry F. Miller & Sons Piano Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 15, 1921. Serial No. 437,384. 5 Claims. (Cl. 84—250.)



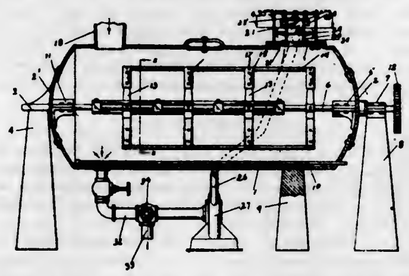
1. A bracket for a grand piano action embodying a horizontally and forwardly extending arm at the upper end and front thereof and a vertically extending arm adjacent the lower end and rear thereof, a hammer flange rail fast to the underside of said forwardly extending arm and a wippen rail fast to the front edge of said vertically extending arm.

1,391,055. DIE-MAKING MACHINE. ROBERT LLOYD HAWKES, St. Catharines, Ontario, Canada. Filed Apr. 13, 1920. Serial No. 373,621. 7 Claims. (Cl. 29—76.)



1. In a die cutting machine, a die holder supported to have free horizontal movement, a master templet and a die blank each carried horizontally by the die holder one vertically above the other, a cutting element engaging the die blank and guiding means co-acting with the master templet for controlling the relative movement of the master templet and die blank with respect to the cutting element.

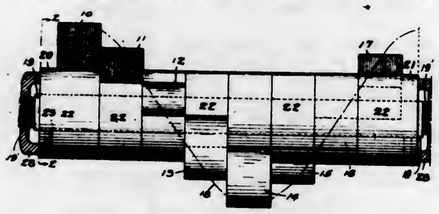
1,391,056. PAPER-STOCK-TREATING MACHINE. WILLIAM J. HERRBOLD, Kalamazoo, Mich. Filed June 19, 1920. Serial No. 390,122. 11 Claims. (Cl. 92—20.)



1. In a stock treating machine, the combination of a tank, a chamber provided with an internal spiral, a top

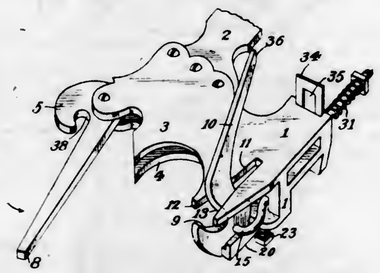
plate for said chamber movably mounted to permit the escape of material from the top of the chamber, said top member having a downturned flange at its outer edge, a pressure means for said top plate, a concave deflector member mounted on the outer side of said chamber below said top plate, a nozzle disposed to deliver upwardly within said chamber, a housing embracing said chamber and open at its lower end to discharge into said tank, and a pump having a discharge connection to said nozzle and an intake connection to the bottom of said tank.

1,391,057. SPRAYER PADDLE-WHEEL. AXEL HOLMSTRÖM, Wiggbyholm, Sweden. Filed Mar. 10, 1920. Serial No. 364,708. 8 Claims. (Cl. 259—134.)



1. A paddle wheel for spraying or surface stirring of liquids, comprising a shaft, a plurality of sections upon the shaft, means for holding the sections against longitudinal and circumferential movement about the shaft, and separate blades upon the different sections having recessed faces on one side of each blade, recessed through the blades and having convex trailing surfaces about the recess.

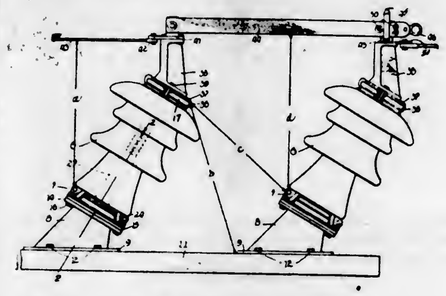
1,391,058. PLOW SAFETY-HITCH. ALBERT B. HULSEBOS and GERRIT DEN BESTEN, Holland, Mich., assignors to Safety Release Clevis Co., Holland, Mich., a Corporation of Michigan. Filed Dec. 30, 1920. Serial No. 433,974. 16 Claims. (Cl. 213—67.)



1. An automatic release comprising a main body portion, a hook pivotally attached thereto, spring actuated means to hold said hook in a closed position which means release it at a predetermined pull, means to hold the released parts in position to be automatically reëngaged when pressure is exerted against said hook in a reverse direction.

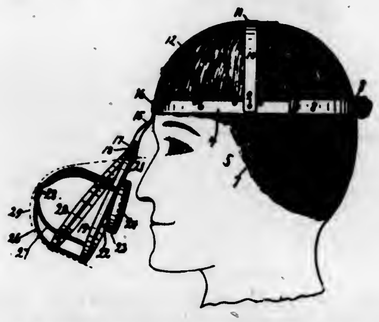
1,391,059. DISCONNECTING-SWITCH. ERNEST H. JACOBS, Chicago, Ill., assignor to Electrical Engineers Equipment Company, Chicago, Ill., a Corporation of Illinois. Filed July 15, 1918. Serial No. 244,830. 11 Claims. (Cl. 200—48.)

4. The improvement herein described comprising an insulator support, a pair of petticoat insulators arranged at an angle of substantially 45 degrees to the support, a switch pivotally mounted on the top of one insulator for opening and closing a circuit, and a cooperating switch terminal mounted upon the top of the other insulator, said switch having a substantially uniform break down strength and being adapted for either horizontal or vertical mounting.



9. In a switch, a pair of terminal clips, a pair of parallel switch blades pivoted to one of said clips and having limited yielding movement at their outer ends, said other clips comprising a non-yielding contact adapted to engage between the blades, and yielding guiding members secured on each side of said latter clips, the end of said guiding members being diverged to guide each blade between the terminal clip and adjacent member and to sustain any arc which might be drawn by opening the switch.

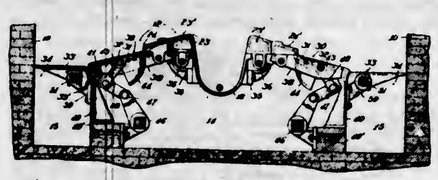
1,391,060. MASK FOR INHALATION. WILFRED J. JANDRON, Minneapolis, Minn. Filed Mar. 17, 1920. Serial No. 366,539. 3 Claims. (Cl. 128—195.)



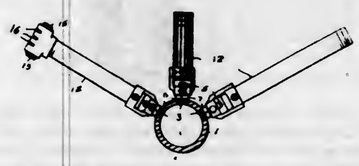
1. In a device of the kind described, a head gear adapted to be secured on a person's head and having at its front a depending arm, two yokes pivotally clamped on the end of said arm and adapted to hold a cloth pinched between them, one of the yokes having arched wires by which to form the cloth into a bowl, a special arm detachably secured on the pivot with the yokes, and a perforated box detachably held on the special arm and adapted to hold a medicated element.

1,391,061. STOKER. THOMAS JENNINGS, Cincinnati, Ohio, assignor to The Underfeed Stoker Company of America, Chicago, Ill., a Corporation of New Jersey. Filed Feb. 18, 1918. Serial No. 217,929. 4 Claims. (Cl. 110—47.)

2. In an underfeed furnace, the combination with a retort having a substantially horizontal mouth, force-feed means for supplying fuel to the retort, and a side-dump closure at a lower level than the retort-mouth, of a floor structure down-sloping from the retort-mouth to the side-dump closure and including a fixed floor structure having plate-receptive openings, plates in said openings pivoted near their outer edges adjacent the floor-level and tiltable to elevate their inner edges to load-avalanching position, these plates having a common pivotal axis substantially paralleling the side of the retort, and means for pivotally moving said plates to load-avalanching angle.

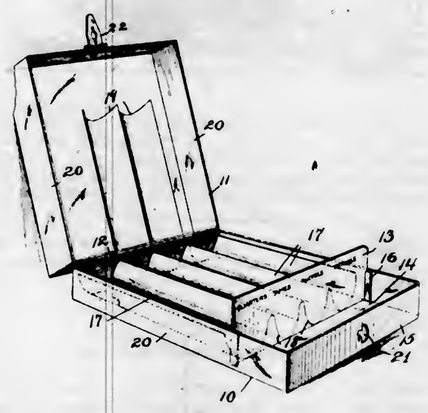


1,391,062. GAS-BURNER. DAVID P. JUDSON, Parnassus, Pa. Filed Jan. 3, 1920. Serial No. 349,211. 5 Claims. (Cl. 158—106.)



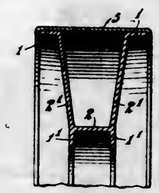
1. A gas burner comprising a hollow cylindrical element adapted to be connected with a gas supply and having a plurality of openings, a vertically disposed and a plurality of upwardly inclined mixer elements secured in said openings, and a burner tube mounted in each of the mixer elements and extending in the same direction throughout as its respective mixer element.

1,391,063. COIN-BOX. CHESTER C. KASKELL, Newark, N. J., assignor to L. Bamberger & Company, Newark, N. J. Filed Dec. 11, 1920. Serial No. 429,907. 3 Claims. (Cl. 133—11.)



1. A coin box comprising two lids hinged together, the inner face of one lid having a set of grooves including a pair of central grooves and end grooves, and a corrugated sheet forming grooves arranged on the other lid to register with the central grooves on the first mentioned lid, each lid having marginal flanges to abut when the lids are closed.

1,391,064. METAL WHEEL. MAURICE LACHMAN, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa., a Corporation of Pennsylvania. Filed Nov. 17, 1919. Serial No. 338,420. 17 Claims. (Cl. 301—66.)



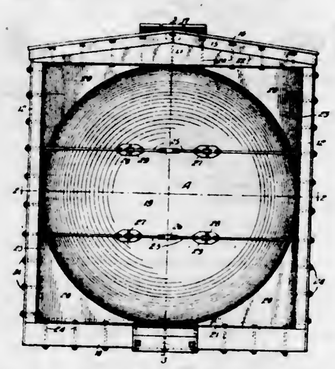
1. A metal wheel consisting of a channel bar formed with flour flanges, the two inner flanges of which together with the intermediate portion of base are bent to form the hub while the spoke part consists of the remaining portion of the base and flanges divided and bent up to form separate spokes terminating at the rim in divided portions of flanges.

1,391,065. FOOD PRODUCT MADE FROM CORN AND METHOD OF MANUFACTURING THE SAME. ADOLPH W. H. LENDERS, Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated, a Corporation of Delaware. Filed Nov. 7, 1918. Serial No. 261,469. 10 Claims. (Cl. 99—10.)

5. Method of manufacturing a product from corn which consists in removing from the corn the germ and substantially all of the hull and fiber, comminuting the remaining portions of the corn and subjecting the same to a treatment which modifies the starch without converting any substantial amount thereof into dextrin or sugar.

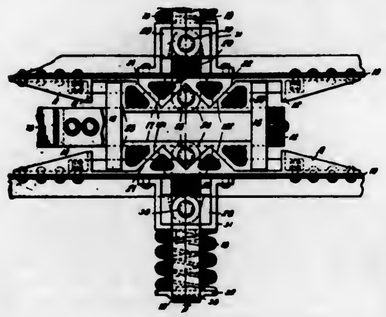
10. A dry, flour-like product consisting of corn starch modified to a sub-dextrin stage in a mixture with corn protein, which mixture remains stable when the material is suspended in water.

1,391,066. BOX-CAR END. WILLIAM H. MINER, Chazy, N. Y. Filed Mar. 1, 1919. Serial No. 279,977. 3 Claims. (Cl. 105—410.)



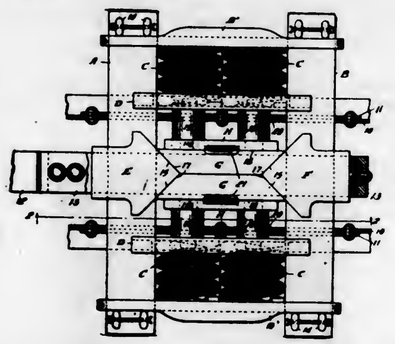
1. In a device of the character described, the combination with a box car having side walls, roof and underframe, of a sheet metal end having a substantially spherical inwardly dished central portion and substantially triangular-shaped flat corner portions, said end having also outwardly extended edge flanges secured to adjacent parts of the car, tension rods extending across said wall on the outer side thereof and having their ends secured to portions of the car, and struts interposed between said tension rods and said dished portion of the end.

1,391,067. RAILWAY DRAFT-RIGGING. WILLIAM H. MINER, Chazy, N. Y., and JOHN F. O'CONNOR, Chicago, Ill.; said O'Connor assignor to said Miner. Filed Mar. 15, 1920. Serial No. 365,798. 6 Claims. (Cl. 213—64.)



1. In a railway draft rigging the combination with draft sills having stationary sets of inclines on their inner faces; of laterally inward and longitudinally movable friction shoes coöperable with said inclines; spring resistances disposed outside of the sills; connecting means between said spring resistances and shoes; followers at the ends of said shoes in engagement therewith; and stops with which said followers are adapted to coöperate.

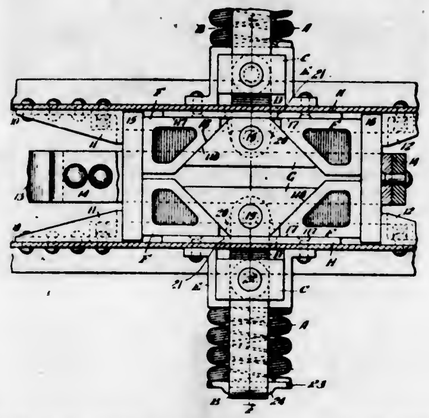
1,391,068. RAILWAY DRAFT-RIGGING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 15, 1920. Serial No. 365,757. 4 Claims. (Cl. 213—64.)



1. In a railway draft rigging, the combination with draft sills; of spring resistances on the outer sides of said sills; front and rear stationary members extending laterally outward from each sill; a member extending longitudinally of the sill sustained on the outer ends of each set of stationary members, said longitudinally extending members forming abutments for the outer ends of the spring resistances; and means, adapted to be operated upon movement of the draw bar, including laterally movable elements for compressing said spring resistances.

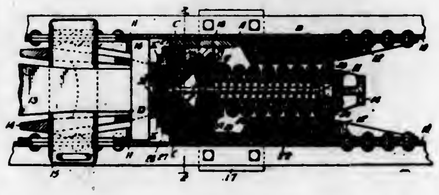
1,391,069. RAILWAY DRAFT-RIGGING. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Mar. 25, 1920. Serial No. 368,667. 4 Claims. (Cl. 213—64.)

1. In a railway draft rigging, the combination with the draft sills; of laterally compressible spring resistances on the outer sides of the sills; fixed abutments secured to the sills against which the inner ends of the spring resistances bear; friction shoes laterally inwardly movable relatively toward each other during the compressive action of the draft rigging and having wedge shaped ends, said



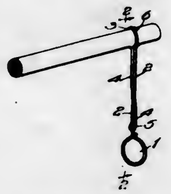
shoes being disposed between the sills; connecting means interposed between each shoe and the spring resistance outside of the adjacent sill adapted to compress the spring resistances upon relative lateral inward movements of said shoes; and end sets of wedges longitudinally movable and coöperable with said shoes to actuate the latter.

1,391,070. FRICTION SHOCK-ABSORBING MECHANISM. JOHN F. O'CONNOR, Chicago, Ill., assignor to William H. Miner, Chazy, N. Y. Filed Oct. 4, 1920. Serial No. 414,666. 10 Claims. (Cl. 213—64.)



1. In a friction shock absorbing mechanism, the combination with a friction shell; of friction shoes coöperable with the shell; a spring; a spring follower; a compound multiple-part wedge; and levers each having bearing contact with said spring follower, a shoe, and a wedge part.

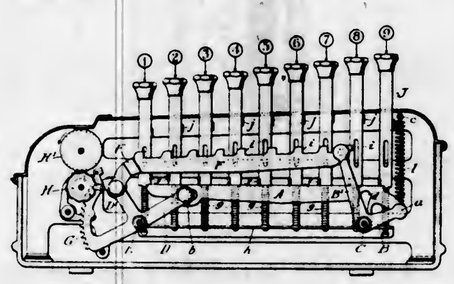
1,391,071. CIGARETTE-HOLDER. DAVID PALMER, Chicago, Ill. Filed June 28, 1920. Serial No. 392,255. 2 Claims. (Cl. 131—51.)



2. A cigarette holder comprising an elongated piece of metal bent intermediate its ends to provide a resilient loop

to receive the cigarette, the metal forming the loop having flattened areas to increase the resiliency of the loop, the portions of the metal extending from the loop forming respectively a standard providing means whereby the device may be held by the smoker, and an arm having a latch element whereby the same may be engaged with the standard to retain the article in the loop.

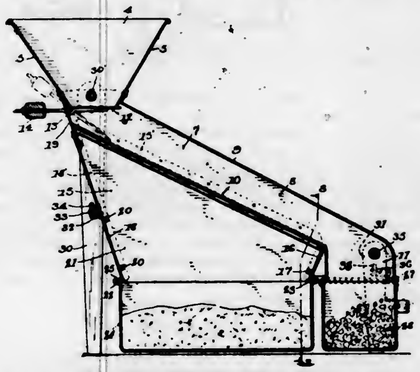
1,391,072. ADDING-MACHINE. WALTER J. PASINSKI, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a Corporation of Michigan. Filed Oct. 1, 1915. Serial No. 53,591. 25 Claims. (Cl. 235—82.)



1. In a calculating machine, an approximately horizontal column-actuator or lever mounted at one end upon a vertically movable fulcrum, in combination with means for moving said fulcrum simultaneously with movement of the lever upon said fulcrum.

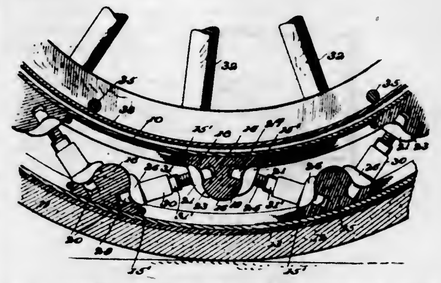
6. In a calculating machine, the combination of a column-actuator or lever, a bell-crank upon one of whose arms said lever is pivotally supported at one end, and connections between the opposite end of the lever and the other arm of the bell-crank for causing movement of the lever upon its fulcrum to rock said bell-crank and lower and raise said fulcrum.

1,391,073. ASH-SIFTER. GUSTAV H. PETERS and RAYMOND E. SHOARS, Milwaukee, Wis. Filed Nov. 18, 1918. Serial No. 263,006. 2 Claims. (Cl. 83—60.)



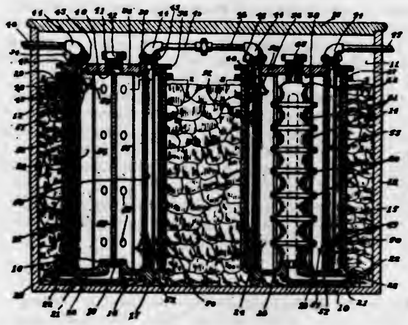
1. A closed ash sifter, comprising an inclined casing having foldable side and end walls and an open bottom portion, end portions of the casing also being open, an inclined screen mounted in the casing, a gated hopper connected to the casing wall forming one of the end openings, a cinder receptacle removably connected to the casing wall forming the other end opening, an ash receptacle removably connected to the casing and closing the bottom opening, and foldable legs for supporting the casing and the receptacles.

1,391,074. CUSHION-RIM. EARL T. PHELAN, Jackson, Mich. Filed Apr. 8, 1920. Serial No. 372,184. 11 Claims. (Cl. 152—36.)



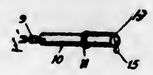
1. A cushion rim including inner and outer rim bands, cushioning means carried by the bands respectively, and toggle members bearing between said means to rock thereagainst sustaining the bands with respect to each other.

1,391,075. WATER-COOLER. FRANK A. PHILLIPPI, Pottstown, Pa., assignor of one-half to J. Roy Kinckiner, Pottstown, Pa. Filed Dec. 3, 1919. Serial No. 342,216. 4 Claims. (Cl. 62—142.)



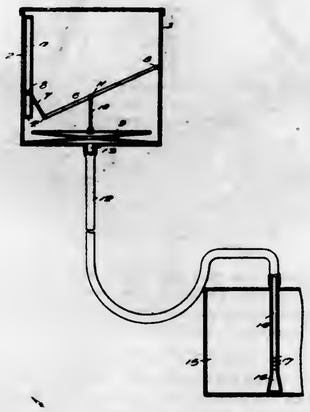
2. A cooler comprising a cylindrical tank, a plurality of integrally formed partial partitions extending radially inward from the wall thereof, removable plate partitions extending between said fixed partitions throughout the length of said tank, said removable partitions containing a plurality of conical openings adapted to cause liquid to circulate, a cover having a convex portion suited to fit the upper edge of said tank, a ring having undercut portions extending adjacent to said tank near its upper end, bolts having offset ends engageable below said ring, said bolts passing through extensions formed with said cover, and means for clamping said bolts in position.

1,391,076. SHOE-SHINING MACHINE. WILLIAM H. POWERS, Eugene, Oreg. Filed June 23, 1920. Serial No. 391,041. 2 Claims. (Cl. 15—37.)



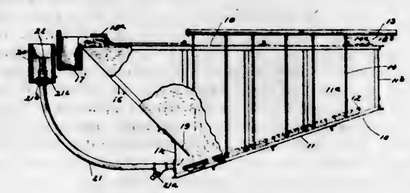
1. In a shoe shining machine, the combination of the flexible shaft, and a rotary brush, with a solid shaft attached to the end of the flexible shaft and entering the hub of the rotary brush, an end plate pivoted eccentrically to the end of the solid shaft, said end plate being swung by centrifugal force over the hub of the rotary brush to hold the rotary brush on the solid shaft.

1,391,077. FLUID-GAGE. WILLY RICHTER, Olmsted, Ill. Filed Mar. 14, 1918, Serial No. 222,362. Renewed July 30, 1920. Serial No. 400,210. 2 Claims. (Cl. 73—110.)



1. In a gage, having a casing provided with a vertically disposed elongated slot formed in one wall thereof, a transparent cover for said slot and provided with a series of graduations, a vertical guide arranged on the inner wall of the casing adjacent to said slot, inlet means for the casing, a fluid receiving diaphragm arranged in the casing over said inlet means and adapted to confine the fluid admitted through said means, a conduit engaged with the inlet means and adapted to be extended into a fluid container, a lever mounted for vertical movement in said casing, a rod pivoted to the lever and centrally fixed to said diaphragm, an arm pivotally engaged with the free end of said lever and extending into the slotted guide, and an indicator carried upon the free end of said arm and movable over the graduations.

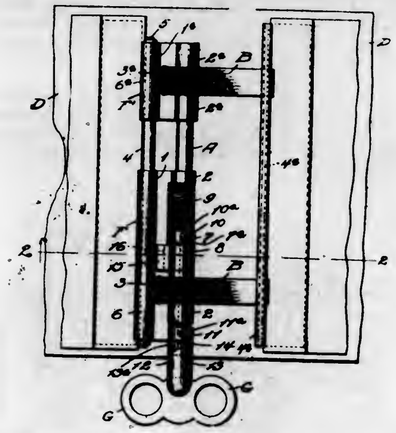
1,391,078. AERATION-CELL. GEORGE C. RISER, Jr., McGill, Nev. Filed May 29, 1918. Serial No. 237,187. 4 Claims. (Cl. 83—85.)



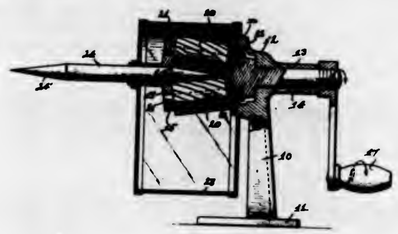
1. In apparatus of the class described, an aeration cell, a series of aeration pans carried thereby, and a concentrate launder, said series terminating short of said launder so as to provide a dead area within said cell intermediate said pans and said launder, said cell being provided with a top extending over substantially the whole of said cell, said top being provided with a discharge portion adjacent said launder.

1,391,079. LOOSE-LEAF BINDER. ADOLPH RUBIN, St. Louis, Mo., assignor to Sieber Products Mfg. Co., St. Louis, Mo., a Corporation of Missouri. Filed June 7, 1920. Serial No. 387,022. 15 Claims. (Cl. 129—41.)

1. A loose leaf binder provided with a winding shaft, a plurality of flexible leaf retaining members spaced apart and adapted to be connected to said shaft, and a plurality of separate and distinct supporting members for said winding shaft capable of being arranged in various positions so as to vary the spacing between said leaf retaining members.



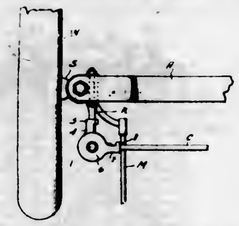
1,391,080. MEANS FOR SHARPENING PENCIL-POINTERS. RAYMOND R. RUNDELL, Elmira, N. Y., assignor of one-fourth to George C. Haesloop, Elmira, N. Y. Filed Aug. 12, 1919. Serial No. 316,984. 2 Claims. (Cl. 51—204.)



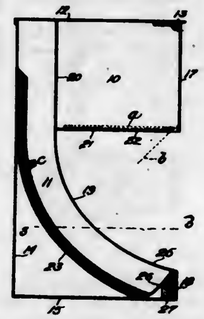
1. A new article of manufacture for regrinding the blades of a lead pencil pointer of a type having a pair of separated oppositely disposed and inclined combined revolving and reversibly rotatable cutters provided with cutting edges, which consists of an abrading device having a tapered end of such an angle and so formed, constructed and arranged as to be adapted to be inserted and held non-rotatably between the separated and inclined rotatable cutters and have frictional and grinding contact with substantially the entire cutting edges of said cutters when said cutters are simultaneously revolved and rotated about said tapered abrading device.

1,391,081. TENSION FOR STEERING-KNUCKLES. LEWIS J. RUSSELL, Oilton, Okla. Filed June 12, 1920. Serial No. 388,513. 1 Claim. (Cl. 280—89.)

A tensioning attachment for steering knuckles consisting of a pair of friction disks in mutual contact, a pivot bolt engaged centrally through the disks, a helical spring upon the threaded end portion of the bolt and adjusting nuts engaged with the bolt, the head of the bolt being at the opposite side of the disks from the spring and the length of the bolt being sufficient to receive between it and the adjacent disks the joint of a knuckle and reach rod through which the bolt is to be passed, the disks having each a radiating arm with prongs at its outer end, the prongs extending in the same direction at right angles to the planes of the disks and with the prongs of each arm spaced apart in a plane at right angles to the extension of the corresponding arm from its disk.

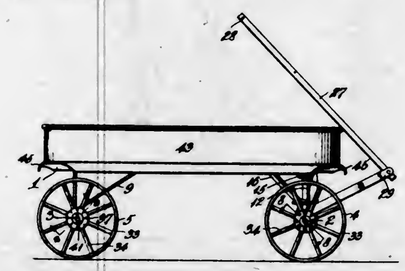


1,391,082. STATIONERY-CABINET. WILLIAM H. SMYTHE, Winthrop, Mass., assignor to Mary B. Smythe, Winthrop, Mass. Filed Apr. 3, 1920. Serial No. 370,928. 1 Claim. (Cl. 211—29.)



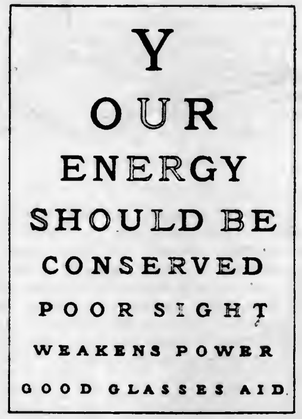
In a device of the character described, a compartment for paper sheets having a curved front wall and a correspondingly curved rear wall, the lower portion of the latter being inclined upwardly to a point closely adjacent the lower edge of the front wall, a narrow slit being provided at said point, and a rubber retarder extending higher than the lower edge of the slit, said front wall having a recess above said retarder.

1,391,083. WAGON. CHARLES F. STICH, Cleveland, Ohio, assignor to The Johns Machine and Stamping Works Company, Cleveland, Ohio, a Corporation of Ohio. Filed Apr. 8, 1919. Serial No. 288,439. 9 Claims. (Cl. 280—87.5.)



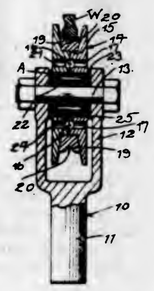
9. In a toy wagon, a body, rear wheels supporting the same, and a front axle structure therefor, comprising a brace, an axle carried thereby, wheels mounted on said axle, a fifth wheel, a fifth wheel bracket supporting the same, a king pin secured to the axle bracket and passing through the fifth wheel, an upper king pin bearing bracket receiving the king pin, and a spring arranged between the king pin and the king pin bearing bracket and forming a yielding mounting for the front axle.

1,391,084. EYE-TESTING CHART. WILLIAM MARSH UPDEGRAVE, Johnstown, Pa. Filed May 23, 1918. Serial No. 236,123. 1 Claim. (Cl. 283—1.)



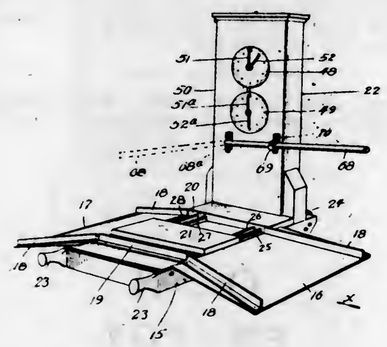
An eye testing chart, composed of lines of letters, the letters arranged in words and the words arranged to express a thought, the letters of each line being of the same size and differing in size from the letters of the other lines, and certain of the letters of the lines being black and the other letters of such color as will appear black to a color blind person, whereby in testing each eye, one eye reading the black letters and the other eye the colored letters, neither eye will read a sequence that can be readily carried in mind when the chart is read by a non-color blind person.

1,391,085. TROLLEY-WHEEL. JOHN A. WENDELL, Montgomery, W. Va. Filed Mar. 7, 1921. Serial No. 450,210. 5 Claims. (Cl. 191—63.)



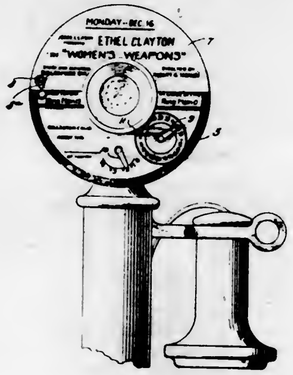
1. In a trolley, a pair of duplicate side members combining to form a wheel provided with a peripheral groove, an annular wear ring disposed within the groove, and an antifriction bearing for said wheel embodying a bushing having a driving fit with said side members and serving to hold said side members in assembled relation.

1,391,086. TALLYING-MACHINE. LINWOOD M. WHITEHEAD, Norfolk, Va. Filed Aug. 11, 1919. Serial No. 316,840. 11 Claims. (Cl. 235—99.)



1. In a tallying machine, the combination of a platform, primary, depressible levers therein, connectible and disconnectible register actuating mechanism, operatively connected to one of said levers, setting means operated by one of said levers for coupling said register actuating mechanism, means for holding said setting means in operative position, mechanism operated by another of said levers for releasing said setting mechanism, and means for uncoupling said register actuating mechanism.

1,391,087. TELEPHONE ATTACHMENT. HERMAN F. ZINK, Jr., Chicago, Ill. Filed Feb. 9, 1920. Serial No. 357,163. 1 Claim. (Cl. 40—1.)

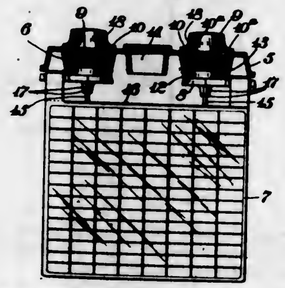


A telephone attachment comprising a disk having means for attachment to the transmitter mouthpiece, a pivoted pointer carried by the disk, a dial of numerals on the disk for said pointer, and a second pivoted pointer and dial therefor on the disk to indicate the number of complete revolutions of the first mentioned pointer, said pointers being independently and manually operable.

1,391,088. WATERPROOFING LEATHER, CLOTH, OR WOOD. JOHN ZOLTOWSKI, Milwaukee, Wis. Filed Apr. 13, 1921. Serial No. 461,033. 2 Claims. (Cl. 134—9.)

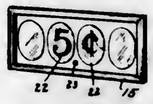
1. A water-proofing composition for leather, cloth, or wood, consisting of a mixture of lard, shoemakers' wax, and crude turpentine.

1,391,089. STORAGE BATTERY. EDWARD S. ADAMS and WALTER H. ADAMS, Columbus, Ohio. Filed July 12, 1920. Serial No. 395,555. 2 Claims. (Cl. 204—29.)



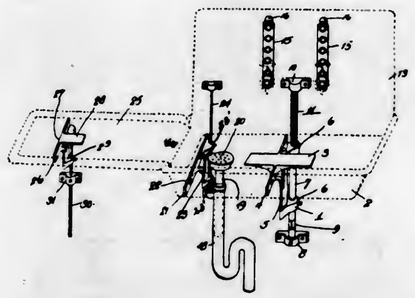
1. In a storage battery, the combination with a jar cover having a screw tapered socket open at its bottom, of a pillar post including a threaded stem to extend upward through the open bottom of said socket, and a tapered nut of lead threaded onto said stem and fitting in said socket.

1,391,090. PRICE-CARD HOLDER. WILLIAM M. ANDERSON, Minneapolis, Minn., assignor to Ideal Products Company, Minneapolis, Minn., a Limited Partnership. Filed Aug. 28, 1920. Serial No. 406,530. 4 Claims. (Cl. 40—10.)



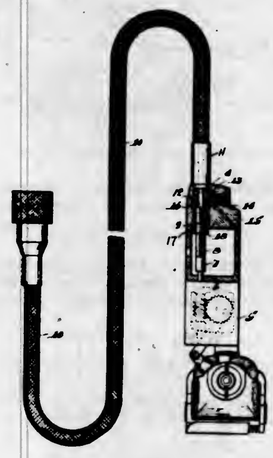
1. A marker card holder comprising a marginal frame, a back plate attached thereto at one edge and having an arm attached to its free edge, and a pair of arms attached to said frame adjacent to the ends of the attached edge of said back plate, said arms being adapted to be opened up to embrace a shelf.

1,391,091. ADJUSTABLE SINK. EMERY H. ARBUCKLE, Cleveland, Ohio. Filed July 20, 1921. Serial No. 486,070. 4 Claims. (Cl. 4—36.)



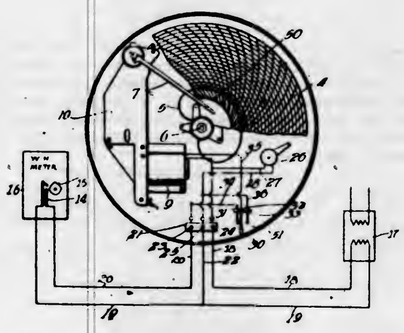
1. The combination with a sink, a bracket including a longitudinal plate and a transverse cross arm engaged with the bottom of the sink, a standard supporting the plate and cross arm, and provided with laterally projecting lugs, the uppermost lug being screw threaded, an adjusting rod provided with screw threads received in the screw threads in the said lug, the lower end of the said adjusting rod being provided with a support, and a square portion of the rod adapted to be engaged with a wrench whereby the said adjusting rod may be manually turned.

1,391,092. FLEXIBLE-SHAFT GUARD. CHESTER H. BEACH, Racine, Wis., assignor to Moore Electric Corporation, Chicago, Ill., a Corporation of Delaware. Filed July 7, 1919. Serial No. 309,128. 1 Claim. (Cl. 64—30.)
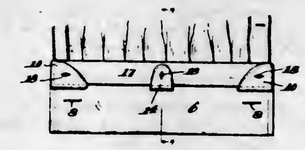


The combination with hair clippers consisting of a casing having an operating shaft therein, there being a bearing in said casing surrounding said shaft, of a flexible shaft inclosed in a sheath, said sheath being provided with a tubular tip surrounding the end of said flexible shaft, said tip fitting the bearing in said casing and the shaft in said casing fitting within and having a bearing in said tip, substantially as described.

1,391,093. METER. JOSEPH W. BICKEL, Chicago Heights, Ill. Filed Jan. 28, 1921. Serial No. 440,644. 6 Claims. (Cl. 234—3.5.)



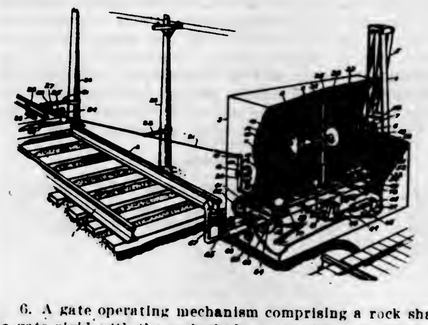
3. In combination, a chart, a pointer coöperating with the chart, an actuating element for the pointer, and means for applying a force to said actuating means for checking the correct operation of the meter.

1,391,094. DETACHABLE CUFF. FRANK VINCENT BEACH, Chicago, Ill. Filed Jan. 9, 1920. Serial No. 350,286. 2 Claims. (Cl. 2—79.)



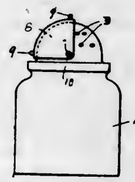
1. In combination, a shirt sleeve provided with a cuff band, said cuff band being provided at its ends with buttonholes; a cuff having substantially triangular pockets at its inner corners adapted to fit over the outer corners of the cuff band, said pockets being provided with buttonholes adapted to register with the buttonholes in the ends of the cuff band; and buttons detachably securing the cuff band in said pockets, substantially as described.

1,391,095. GATE-OPERATING MECHANISM. ERNST CHRISTENSON, Stockton, Kans. Filed July 21, 1921. Serial No. 486,375. 6 Claims. (Cl. 246—301.)



6. A gate operating mechanism comprising a rock shaft, a gate rigid with the rock shaft, means for normally holding the rock shaft inoperative, train-actuated means for releasing the rock shaft, a rocking guide member tiltable about a horizontal axis, means connecting the rocking guide member and the shaft to operate the shaft, a weight longitudinally movable in the guide to tilt the guide member, a check connected to the guide, means at one end of the guide for normally retaining the weight against movement and a releasing stop member for releasing and permitting the weight to automatically return to normal position.

1,391,096. SHAKER. ELZA HOWARD COPEN, Akron, Ohio. Filed Sept. 3, 1920. Serial No. 407,874. 1 Claim. (Cl. 65—45.)



A container having an integral perforated dome-shaped top and a partition wall extending between said top and the bottom wall of the container and dividing the latter into separate compartments, each compartment being provided with an individual filling opening, a closure plate conforming in shape to said top and movable thereover to

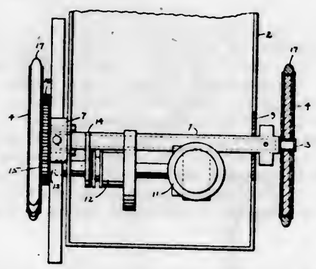
permit discharge from one compartment while preventing discharge from the remaining compartment, pivot screws passing through said closure plate and threadedly engaged in the dome-shaped top, said screws being split longitudinally to frictionally engage the openings provided therefor in the closure plate whereby the latter is held from moving too freely relative to the container.

1,391,097. MILLING-CUTTER. EDWARD A. COWLES, Cleveland, Ohio. Filed Nov. 11, 1920. Serial No. 423,224. 3 Claims. (Cl. 29—105.)



1. A milling cutter comprising a metal head fashioned with separated slots whereby to impart a limited resilience to a portion of said head between said slots, a blade wholly occupying one of said slots, said head being further provided with a tapped opening, communicating with the other of said slots, and a screw adapted to coöperate with the threads of said opening and provided with a conical outer end surface adapted directly to engage and to spread apart the walls of the slot which said screw enters.

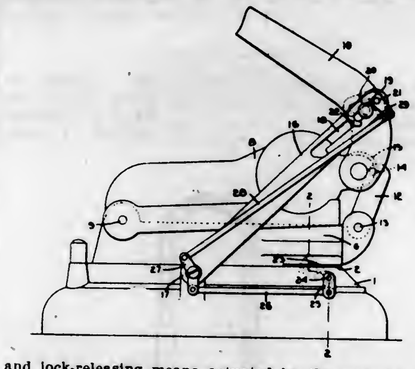
1,391,098. DRIVING MECHANISM FOR AUTOMOBILES. LEVITT LUZERN CUSTER, Dayton, Ohio. Filed Mar. 3, 1919. Serial No. 280,380. 2 Claims. (Cl. 180—62.)



1. In a device of the type specified, the combination with an axle of an automobile, a wheel freely secured on each end of said axle, of resilient means secured to the latter, and adapted to be twisted by it, a ledge fixedly secured to said axle, a prime mover supported by said ledge, driving mechanism connecting said prime mover with a wheel on said axle, and a body supported by said resilient means, provided with a vertical slot through which each axle end is vertically movable for the purpose described.

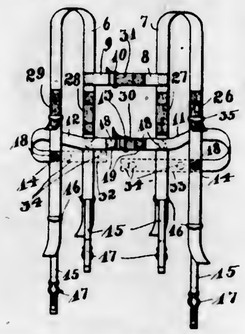
1,391,099. PERFORATING-MACHINE. ALFRED L. DAY, Brookline, Mass., assignor to Day Perforator Company, a Voluntary Association of Massachusetts. Filed Feb. 5, 1920. Serial No. 356,472. 3 Claims. (Cl. 101—19.)

1. In a perforating machine, the combination with perforating punches, of a pivoted head carrying a matrix member to actuate the punches, a lever for moving the head, means normally locking the lever from operation,



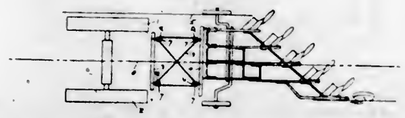
and lock-releasing means actuated by the material to be perforated as it is introduced into the machine.

1,391,100. HYGIENIC GARTER AND SUPPORTER. MARY ELINOR DELL, Glendale, Calif. Filed Jan. 25, 1921. Serial No. 439,727. 1 Claim. (Cl. 241—17.)



In a garment, shoulder straps to come over both shoulders of the wearer having means to receive garters on all four terminations, the shoulder straps being of non-elastic material, insertions of elastic material, of proportionally short sizes, in both shoulder straps at points in front and the back of the wearer, adjusting means in the elastic portions, cross straps between the shoulder straps extending around the body of the wearer up to the space between the front portions of the shoulder straps, the cross straps being mainly of non-elastic material, insertions of elastic material of proportionally short sizes, in the back portions of the cross straps, adjusting means in the elastic insertions in the cross straps, and means for attaching other garments to the device.

1,391,101. DRAFT MEANS. LORING B. DOE, San Francisco, Calif. Filed Apr. 20, 1920. Serial No. 375,398. 2 Claims. (Cl. 213—67.)



1. A draft means comprising four chain sheaves, two of said sheaves rotatably secured on the tractor and two ro-

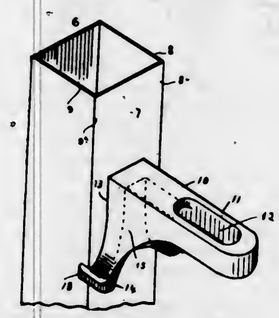
tatably secured on a drawn vehicle, an endless chain reeved through and engaging said sheaves in such a manner that the said chain will assume substantially the form of a figure 8, said figure 8 being perpendicular to the line of draft, and having two sheaves, one on each implement in each loop of said figure 8, and in such a manner that each sheave will have a direct chain connection with the sheaves on both corners of the adjacent vehicle.

1,391,102. BOW-NECKTIE FASTENER. MAX FORD, New York, N. Y. Filed Oct. 22, 1919. Serial No. 332,454. 1 Claim. (Cl. 24—49.)



A ready-made bow tie having a centrally positioned band; and a clasp pin detachably positioned between the body of said tie and said band, adapted for detachably securing said tie to a soft collar and for connecting the adjacent ends of one of the folds of said collar, substantially as described.

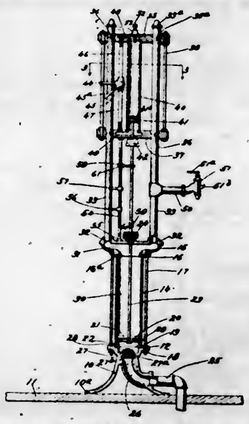
1,391,103. BRACKET FOR ANGULAR-WALLED TUBING. WILLIAM B. FOSTER, Utica, N. Y., assignor to Foster Brothers Manufacturing Company, Utica, N. Y., a Corporation. Filed June 10, 1920. Serial No. 338,068. 1 Claim. (Cl. 5—55.)



A bracket for use against angular-walled tubing comprising an outwardly-projecting shelf-portion, a downwardly-extending tube-engaging portion adapted to bear against one flat side of the tubing, said downwardly-extending portion having its lower part extended laterally sufficiently to bear against the opposite edges of the engaged tube side whereby the adjacent angles of the tube take the pressure from the bracket and fingers on said laterally extended parts extending around the said adjacent angles of the tube.

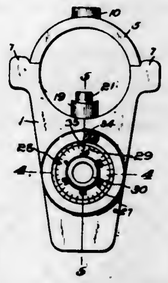
1,391,104. FLUID-ACTUATED LIQUID-MEASURING PUMP. JOSEPH R. GOULD, West Springfield, Mass. Filed Oct. 20, 1916. Serial No. 126,761. 6 Claims. (Cl. 221—103.)

1. In combination, a liquid cylinder and a compressed fluid cylinder mounted in axial alinement with each other, a piston mounted in said liquid cylinder, an inlet valve carried by the piston, a conduit leading to the space on the inlet side of said piston, a second inlet valve leading from said conduit to said space, a second piston mounted in said compressed fluid cylinder, a piston rod connecting said pistons, means to admit compressed fluid to said compressed fluid cylinders on each side of said second named piston alternately, a stop member carried by said



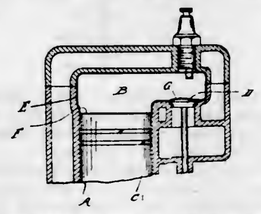
piston rod, and an adjustable stop arm mounted adjacent said piston rod to engage said stop member and thereby regulate the length of stroke of said pistons.

1,391,105. VEHICLE-LOCK. LESTER E. GRANT, Auburndale, Mass. Filed Apr. 15, 1920. Serial No. 374,001. 6 Claims. (Cl. 70—53.)



1. A lock for motor vehicles comprising a multi-part casing having a lock chamber, an opening in the wall thereof to display the face of the lock, lock retaining means, a bolt chamber, a bolt therein controlled by the lock in the adjoining chamber, a bushing on the bolt extended through the steering column, casing member securing means for securing the casing sections together, and means for anchoring the casing member securing means to prevent removal thereof and destruction of the lock.

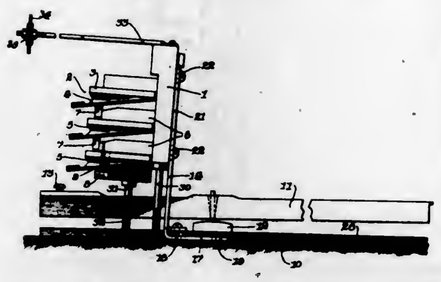
1,391,106. INTERNAL-COMBUSTION ENGINE. FRANCIS WALTER GUIBERT, Detroit, Mich. Filed Jan. 25, 1919. Serial No. 272,996. 2 Claims. (Cl. 123—191.)



2. In an internal combustion engine, the combination with an explosion chamber including a cylinder wall and

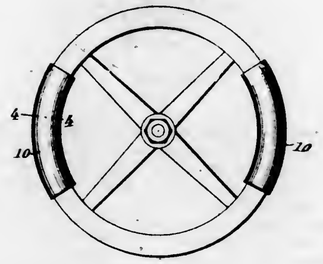
a piston and valve, of linings upon said wall, piston and valve, exposed to the carbon gases or vapors and formed of material with a relatively large copper content.

1,391,107. PLAYER-PIANO. AXEL G. GULBRANSEN, Chicago, Ill., assignor to Gulbransen-Dickinson Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 4, 1918. Serial No. 260,938. 5 Claims. (Cl. 84—70.)



1. In combination, a plurality of L shaped supporting brackets adjustably mounted upon the bed of a piano, a channel board adjustably secured to the upwardly projecting arms of said supporting brackets, a plurality of pneumatics secured to said channel board and means adjustably secured in the bed of the piano for supporting said channel board and pneumatics.

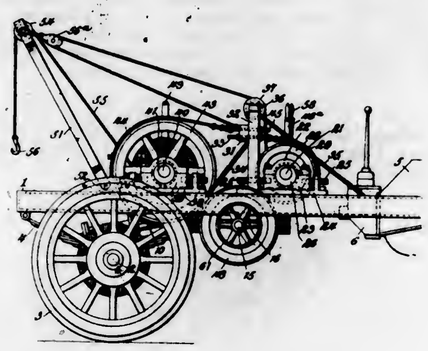
1,391,108. HAND-PROTECTION DEVICE. MARCIA C. HAMBLET, Salem, Mass. Filed Mar. 16, 1920. Serial No. 366,371. 3 Claims. (Cl. 74—33.)



1. A device of the class described, comprising a body portion adapted to encircle a handle, perforations adjacent one of the edges of the body portion, a perforated flap secured to the body portion at a distance from the opposite edge thereof, said perforated flap being adapted to be brought toward the perforated edge of the body portion and secured thereto by means of laces, and a flap interposed between the lacing and the handle.

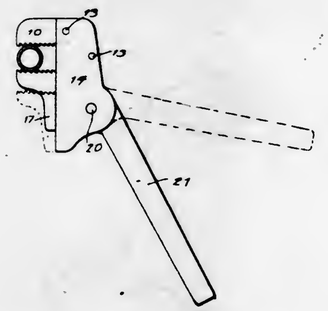
1,391,109. POWER-DELIVERING ATTACHMENT FOR AUTOMOBILE TRUCKS OR TRACTORS. LEO HAUBERT, Muskogee, Okla. Filed June 30, 1920. Serial No. 393,088. 4 Claims. (Cl. 212—8.)

1. In a motor vehicle, a power unit, a power shaft between the power unit and the drive axle of the vehicle, a jack shaft transverse of the length of the whole, friction disks on the jack shaft, winding drums to the front and to the rear of the jack shaft and movable individually into and out of engagement with the friction disks on the jack shaft, brake bands individual to and encircling



the drums, and means for moving the drums into active relation to the friction disks on the jack shaft or to the brake bands.

1,391,110. WRENCH. AARON R. HEANEY, Stillwater, Okla. Filed Apr. 2, 1921. Serial No. 457,943. 1 Claim. (Cl. 81—127.)

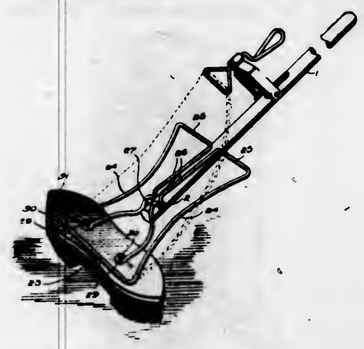


A wrench comprising a fixed jaw embodying a reduced extension projecting rearwardly and downwardly therefrom, side plates secured to said reduced extension and each provided at its forward side with angular flanges directed toward each other, a base member having grooves formed therein slidably receiving said flanges, a jaw formed upon said base at the end thereof next adjacent the fixed jaw, a rack formed upon the rear edge of said base and lying between said side plates, and a handle pivotally mounted between said side plates and embodying a mutilated gear meshing with said rack to shift said base toward and away from said fixed jaw, said base when withdrawn from said fixed jaw being completely engaged by the said flanges to be supported thereby.

1,391,111. BRUSH AND MOP HOLDER. FERRY F. HILL, Baltimore, Md., assignor to Malcolm W. Hill, Baltimore, Md. Filed Dec. 14, 1920. Serial No. 430,624. 3 Claims. (Cl. 15—56.)

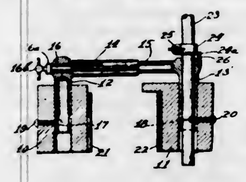
1. A mop holder comprising a handle, a mop supporting frame pivoted thereto, a mop having its forward end secured to the front of said frame, a rotatable support for the other end of said mop, and a bracket in which

said rotatable support is mounted, said bracket comprising a substantially U-shaped member pivotally mounted



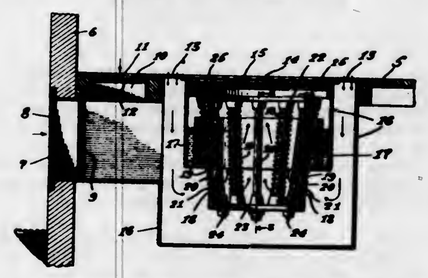
on said handle, the outer end of said bracket being shaped to form a bearing for said rotatable member.

1,391,112. BOOK-HOLDER. ANGELA C. HINZMAN, Chicago, Ill. Filed Jan. 26, 1920. Serial No. 354,055. 7 Claims. (Cl. 45—82.)



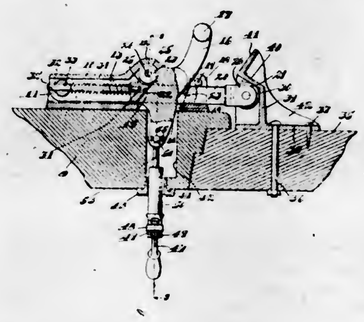
1. In a book holder the combination of a clamp comprising two blocks having substantially parallel circular holes through them, cylindrical metal members having a sliding fit in said holes, telescoping extensions extending toward and engaging each other from the upper ends of said members, and a screw extending through said extensions to draw said members together, one of said members being tubular, a rod extending vertically through said tubular member, a holding means for retaining said rod in desired position in said tubular member, said rod having an offset portion at its upper end, a book support, and a clamp connecting said support and offset portion to hold said support rigidly in desired position relatively to said offset portion.

1,391,113. ELECTRIC HEATER. ANDREW J. HOLMES, Tacoma, Wash. Filed Aug. 27, 1920. Serial No. 406,317. 5 Claims. (Cl. 219—34.)



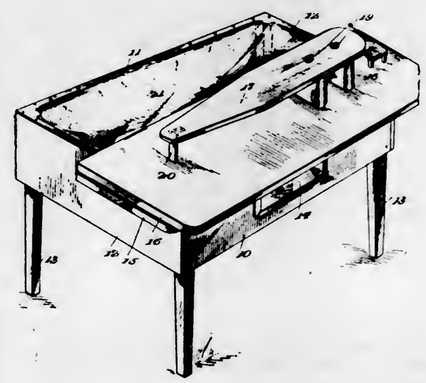
1. An electric heater comprising a housing; a grille for said housing having air intake openings formed therein; a casing centrally disposed within the said housing adapted to form an air heating chamber, said casing associated with said housing forming a conduit for the passage of air to be heated; a container for liquid formed on said casing within said air heating chamber; a downwardly converging heating element disposed within said air heating chamber; a grille for said air heating chamber having air outlet openings formed therein and controlling means for said openings.

1,391,114. REFRIGERATOR-DOOR LATCH. WILLIAM E. HUBER, Chicago, Ill., assignor of one-third to Henry J. Erzinger and one-third to Alphonso S. Crosby, Chicago, Ill. Filed Nov. 8, 1919. Serial No. 336,615. 6 Claims. (Cl. 292—169.)



1. A lock comprising a slidably mounted bolt, an arm pivotally mounted adjacent to said bolt, a keeper in position to be engaged by said bolt, and means integral with said arm actuated by the swinging of said arm for forcing said bolt longitudinally into engagement with said keeper.

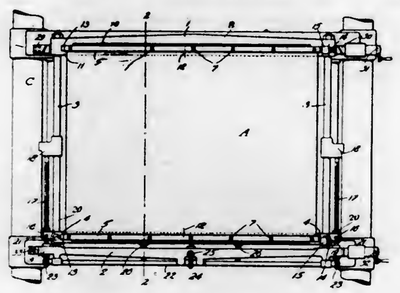
1,391,115. COMBINED TABLE AND IRONING-BOARD. GEORGE W. HUDSON, Lancaster, Ohio. Filed Feb. 25, 1920. Serial No. 361,246. 1 Claim. (Cl. 68—10.)



A device of the character described including a table frame, a fixed top section secured thereon and covering a portion of the frame, a movable top section hinged to the fixed top section, the two sections when alined horizontally covering the entire top of the table frame, an ironing board fixed to one side of the movable section and housed within the table frame when the two sections are horizontally alined, and an apron extending between the

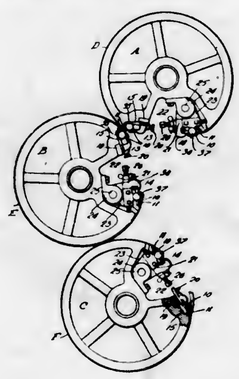
fixed top section and the side and ends of the frame to house the ironing board when it is not in use and to support ironed articles in rear of the ironing board when the latter is in use.

1,391,116. HOLDING MEANS FOR PHOTOSENSITIVE PLATES AND THE LIKE. WILLIAM C. HUEBNER, Buffalo, N. Y., assignor to Huebner-Bleistein Patents Co., Buffalo, N. Y. Filed Feb. 27, 1919. Serial No. 279,492. 16 Claims. (Cl. 95—69.)



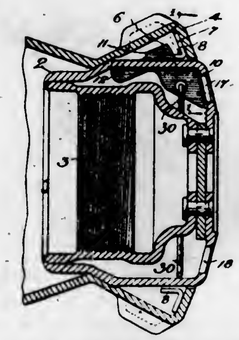
1. A holder for a thin sensitized printing plate, comprising a frame having holding members for opposite edges of the plate, projecting reinforcements on said plate adjacent opposite edges thereof, and means for detachably securing said reinforcements to said holding members.

1,391,117. PRINTING-PLATE OR THE LIKE AND MEANS FOR SECURING THE SAME IN PREDETERMINED POSITIONS IN PRINTING-PRESSES. WILLIAM C. HUEBNER, Buffalo, N. Y. Filed Dec. 29, 1919. Serial No. 348,079. 5 Claims. (Cl. 272.)



1. The combination with a press cylinder, of opposite holding members thereon, means for securing the opposite edges of a flexible sheet to said holding members, said sheet having at one end thereof a fixed rigid part, and one of said holding members having a rigid part arranged to detachably engage the rigid part on the sheet to locate said sheet accurately in a predetermined position lengthwise of the sheet on the cylinder, means for relatively moving said holding members to draw the sheet taut around the cylinder, and means for moving said rigid part on the sheet lengthwise of the cylinder to a definite point to locate the sheet accurately in a predetermined position.

1,391,118. HUB-CAP-LOCKING DEVICE. EMIL IBACH, Philadelphia, Pa., assignor to Budd Wheel Corporation, Philadelphia, Pa., a Corporation of Virginia. Filed Sept. 1, 1917. Serial No. 189,274. 12 Claims. (Cl. 301—9.)

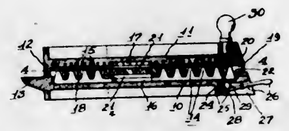


1. A device of the class described comprising the combination of inner and outer hubs, a hub cap detachably fitted on one of said hubs to hold the two hubs together, the side wall of said hub cap having a slot formed therein, a latch pivotally mounted in said hub cap and swinging in a plane radial to the axis thereof, said latch having a tongue projecting through said slot and a cam surface, a keeper member on one of said hubs in line with said tongue, the face of said cap being provided with a pair of holes, one of which is in line with said cam surface.

10. In a hub structure, the combination with an outer shell, of a hub cap formed in two telescoping sleeves secured together, said inner sleeve adapted to screw on a hub, and said outer sleeve bearing against said outer shell to removably hold the same in place, said outer sleeve being crimped at its inner end over the inner end of said inner sleeve, and a latch disposed between said sleeves to lock said cap in place.

12. In combination with the hub of a wire wheel, a cap for said hub with its face substantially flush with the end face of the hub; a locking device carried by said cap and accessible at its face and housed by said hub, and means for normally holding the locking device in locking position, said locking device being such as to enable it to be maintained in locking position during the operation of the wheel by centrifugal force.

1,391,119. MEAT-TENDERER. CARL OLAF JOHNSON, St. Paul, Minn. Filed Apr. 21, 1921. Serial No. 463,117. 6 Claims. (Cl. 17—28.)



4. In a device of the class described, a pair of coöperating cutter members, one member being movable with respect to the other to permit the insertion of a piece of meat therebetween, also to cause the cutting of the meat and, further, to permit the removal of the treated meat therefrom, said members being supplied with registering depressions in their adjacent cutting faces to receive bones in the meat during the cutting operation.

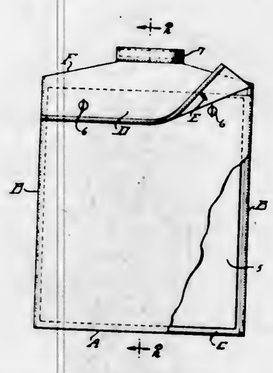
1,391,120. AUTOMOBILE CAUTION-SIGNAL. ALDRED JAMES JONES, Detroit, Mich. Filed Sept. 10, 1917. Serial No. 190,590. 5 Claims. (Cl. 177—327.)

2. A signal for automobiles provided with electromagnetic operating means including a rockable shaft, a signal device carried by the shaft in visible position, a screw stem threaded into the shaft, and a chain connected at one end



to the stem and at the other to the electromagnetic means, whereby the effective length of the chain may be varied by the screw stem.

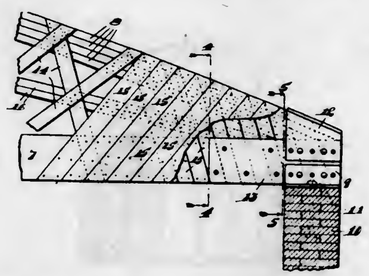
1,391,121. GARMENT-PROTECTOR. CHARLES J. KEPPEL, Monroeville, Ohio. Filed Oct. 28, 1919. Serial No. 333,897. 3 Claims. (Cl. 2—54.)



1. An article of the class described, comprising a strip of fabric folded to form inner and outer members of unequal length and having the marginal edges of the members secured together to form a pocket, the longer inner member being folded upon itself to form a flap overlying the upper end of the outer member and closing the pocket, the said flap being provided with button holes and having its folded edge cut away to form a neck opening, a collar secured to the neck opening, said collar being open at the back and having a resilient strip secured therein, and an insert of water proof material in the pocket and provided with buttons engaging the button holes of the flap.

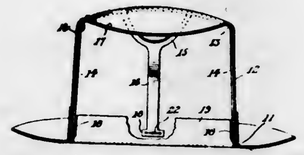
1,391,122. ROOF-TRUSS. SIMON D. KNUDSEN, Chicago, Ill. Filed May 5, 1919. Serial No. 294,630. 2 Claims. (Cl. 108—23.)

1. A truss comprising end members secured to an abutment, each of said end members consisting of two pairs of oppositely disposed angle irons secured together by means of a web extending into the truss section and a stringer formed of two parallel adjacent members having their ends positioned in said end members and extending on opposite sides of said web; means securing the ends of said stringer to said end members and to said web beyond said end members; a main chord formed of two



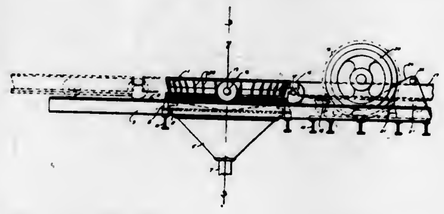
parallel adjacent members with a space between them, said members having their ends positioned in said end members, lattice work positioned in the spaces between the members of said main chord and said stringer and secured thereto, substantially as described.

1,391,123. HAT-EXTENDER. NEUFER KOYOMJIAN, New York, N. Y. Filed Sept. 22, 1920. Serial No. 412,074. 1 Claim. (Cl. 2—108.)



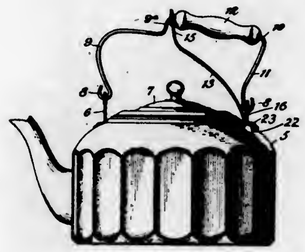
An extender for hats comprising a frame of sheet material adapted for use within the crown of the hat and having a central oval portion within which the centrally creased portion of the crown depends when the device is in use, with said legs flatly contacting the interior of the crown and terminating at points between the sweat-band and crown of the hat, anchoring feet transversely positioned at the free ends of the legs and semicircular portions connecting the laterally positioned legs with the sides of the oval adapted for receiving the side creases of the hat crown.

1,391,124. SINTER-PAN. STEPHEN A. KROM, Birmingham, Ala. Filed July 3, 1920. Serial No. 393,989. 5 Claims. (Cl. 266—21.)



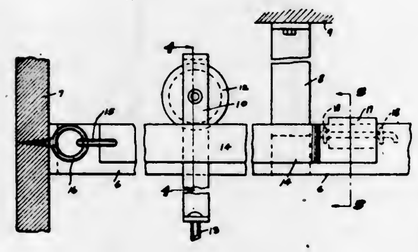
1. A sinter pan comprising a grate supporting section, and a movable charge retaining section above the grate adapted to be shifted laterally to clear the grate section.

1,391,125. HANDLE AND SHIELD FOR COOKING VESSELS. JOSEPH V. LAFOND, Chicago, Ill. Filed Nov. 30, 1920. Serial No. 427,329. 7 Claims. (Cl. 53—9.)



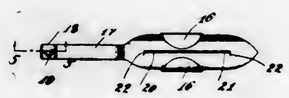
3. The combination with a vessel having a hinged bail, of a shield connected to the bail at its upper end and permanently united to the vessel at its lower end, whereby said shield maintains the bail at all times in an upright position.

1,391,126. MEAT-TRANSPORT. RUDOLPH P. LAMBERT, Chicago, Ill. Filed Oct. 25, 1920. Serial No. 419,418. 5 Claims. (Cl. 104—93.)



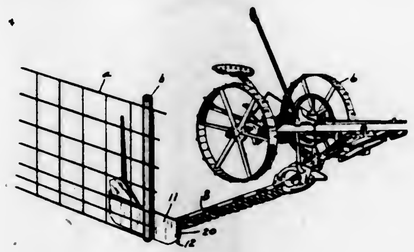
1. A meat transport comprising a track; a hanger traveling on said track and removable therefrom; and means located adjacent said track for simultaneously locking hangers thereon and releasing the same, substantially as described.

1,391,127. PENCIL ATTACHMENT. BENJAMIN LANE, Des Moines, Iowa. Filed July 10, 1919. Serial No. 309,912. 2 Claims. (Cl. 120—84.)



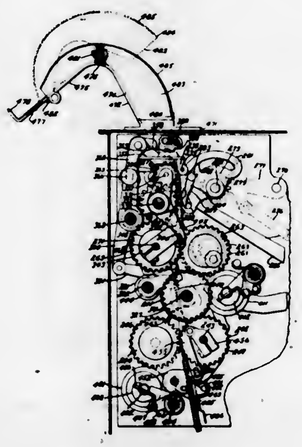
1. A pencil clip having a central longitudinal aperture, said clip having a raised portion on one side of said aperture, and cutter means formed at the edge of said raised portion, the edge of said cutter means extending toward the interior of said clip.

1,391,128. GUARD-SHOE FOR MOWERS. ALEXANDER LAURIE, Carroll, Nebr. Filed Aug. 16, 1920. Serial No. 403,772. 5 Claims. (Cl. 56—314.)



1. The combination with a mower, of a guard shoe secured at the outer end of its finger bar and set in a vertical plane outward of the outermost position of the sickle and the grain guard.

1,391,129. TICKET-PRINTING MECHANISM. CHARLES L. LEE, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio. Filed July 20, 1916. Serial No. 110,317. 21 Claims. (Cl. 271—63.)

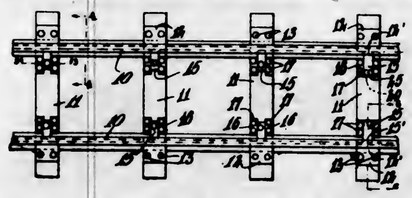


4. In a machine of the class described, the combination with a casing having an opening through which tickets are to be ejected, of ticket ejecting mechanism operable to eject tickets through the opening, an element carrying means for limiting outward movement of the tickets and means for limiting reverse movement of the tickets, said element being formed to produce an elevation between the opening in the casing and the means first mentioned, and a guide constructed to direct the ejected tickets over said elevation to a position between the two limiting means.

1,391,130. RAIL-JOINT FASTENER. ANDREW LETKO Indiana Harbor, Ind. Filed June 8, 1921. Serial No. 475,929. 3 Claims. (Cl. 238—331.)

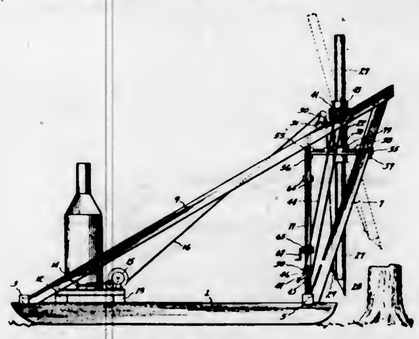
1. A rail fastener device comprising a plate adapted to engage one side of the base flange of the rail, a block

adapted to engage the other side of the base flange of the rail, means guiding said block for movement transversely



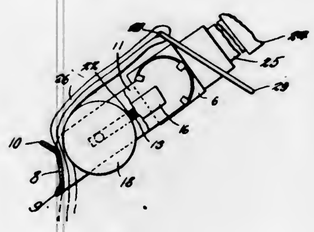
to the rail, and means engaging behind the said block to hold the latter in position, said last means comprising a flat spring having an offset adapted to engage the block.

1,391,131. STUMP-CHOPPING MACHINE. JOHN LYNCH and CHARLES MCGUIRE, Seattle, Wash. Filed Mar. 7, 1921. Serial No. 450,224. 5 Claims. (Cl. 144—193.)



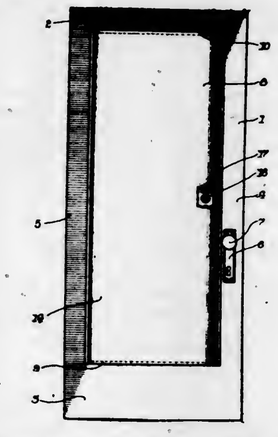
1. A machine of the character described, comprising a frame, a shopping shaft guide pivotally supported by said frame, a chopping shaft slidably mounted for reciprocation in said guide, means for adjusting the guide to change the direction of the chopping shaft, means for rotating the shaft within the guide and means for operating the shaft.

1,391,132. MOP. JOHN MCNAUGHTON, New York, N. Y. Filed Oct. 8, 1920. Serial 415,569. 4 Claims. (Cl. 15—43.)



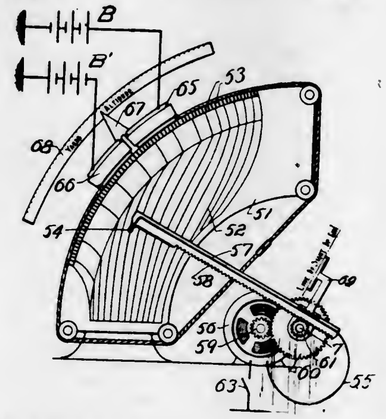
1. In a mop the combination with a front cross strip having side portions extending therefrom provided with notches in their free ends, of a cross strip including a central split sleeve and oppositely extending channel portions, lugs projecting from said channeled portions and seated in the notches, diverging retaining flanges extending longitudinally along the side strips, there being a slot therebetween, a housing slidable longitudinally in engagement with the flanges and held to the side strip thereby, a spring within the housing, an expressing roller having gudgeons projecting into the slots in the side portions, said springs thrusting against the gudgeons, and a handle seated within and extending from the split sleeve.

1,391,133. DOOR. FRANK J. MATCHETTE, Milwaukee, Wis., assignor to The Servidor Company, Wilmington, Del., a Corporation of Delaware. Filed Sept. 8, 1917. Serial No. 190,412. 8 Claims. (Cl. 20—16.)



3. In a device of the class described, a cabinet comprising top, bottom and side frame members, and doors hinged in said side members, said doors forming the entire sides of said cabinet and overlapping the frame members, said cabinet bulging out at the center substantially symmetrically on each side so as to complete a substantially oval cross section, the top and bottom frame members being curved to fit the inner surfaces of said doors.

1,391,134. ELECTRIC FUSE-SETTER CONTROLLER FOR ANTI-AIRCRAFT GUNS. ROBERT V. MORSE, Ithaca, N. Y., assignor to Morse Instrument Company, Inc., Ithaca, N. Y., a Corporation of New York. Filed Sept. 13, 1917. Serial No. 191,265. 11 Claims. (Cl. 235—61.)



7. In a fuse setter controller for anti-aircraft guns, the combination of an electrically operated mechanism for causing a movement to correspond to the desired fuse

setting for various angles of fire and a constant flying altitude of target, and means for varying the altitude in regard to which the mechanism operates.

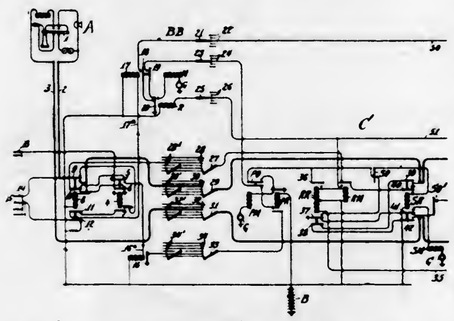
8. In a fuse setter controller for anti-aircraft guns, the combination of a mechanism for determining the fuse setting for the existing position of the gun when firing on a moving target, and a second mechanism arranged to give a lead over the first mentioned mechanism to compensate, by continuous anticipation, for the time involved in loading so that the fuse setting may be correct when the shell is in the gun at a future time when the gun is discharged, whereby the gun may be maintained with a lead corresponding merely to the time involved in the flight of the projectile.

9. In a fuse setter apparatus for anti-aircraft guns, the combination of a fuse setter, automatic means for continuously setting the fuse setter for various angular positions and a constant altitude setting, and means for changing the altitude setting of the apparatus.

10. In a fuse setter apparatus for anti-aircraft guns, the combination of a fuse setter, and automatic means for continuously setting the fuse setter so that bursts are produced at a substantially constant altitude above the ground with changing angles of fire.

11. In a fire control mechanism for anti-aircraft guns, the combination of means for automatically determining the fuse setting required for a given position of the target, and an auxiliary means adapted to receive and transmit the fuse setting thus obtained modified so as to lead or anticipate the fuse setting automatically determined, to compensate for the change in the position of the target during the time of loading.

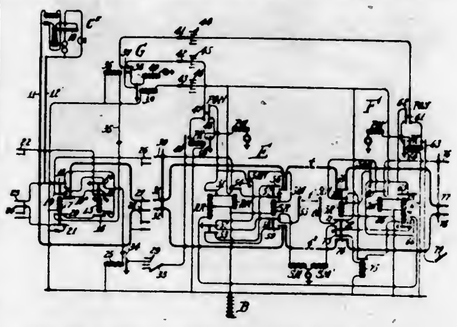
1,391,135. SEMI-AUTOMATIC TELEPHONE SYSTEM. GEORGE E. MUELLER, Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company, a Corporation of Illinois. Filed Nov. 16, 1907. Serial No. 402,443. 58 Claims. (Cl. 179—27.)



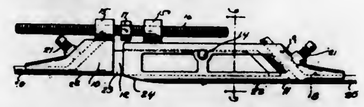
3. A semi-automatic telephone system including telephone lines, an operator's circuit, selective switching mechanism at the calling end of said circuit, operator's means for transmitting directive currents to said switches to extend the calling end of said circuit to desired lines, a calling telephone line, and a pair of electrically connected step by step traveling switches between said line and the answering end of said circuit, one of said switches, serving on initiation of the call, to connect with said calling line and the other to connect with said operator's circuit.

1,391,136. TELEPHONE-EXCHANGE SYSTEM. GEORGE E. MUELLER, Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company, a Corporation of Illinois. Filed June 20, 1908. Serial No. 439,582. 42 Claims. (Cl. 179—27.)

8. In an electric signaling system, the combination with a signaling circuit, of a plurality of keys for controlling the transmission of signals over said circuit, and means whereby each manipulation of one of said keys, in the operation of transmitting a signal, changes in a predetermined manner the electrical effects produced by the subsequent manipulation of any of said keys during said operation of transmitting the signal.

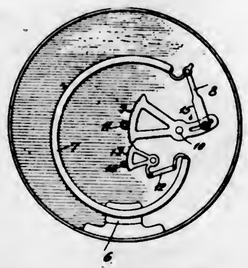


1,391,137. WIRE-SPLICER. JOSEPH O. MULLIGAN, McKees Rocks, Pa. Filed Apr. 30, 1921. Serial No. 465,899. 2 Claims. (Cl. 191—44.1.)



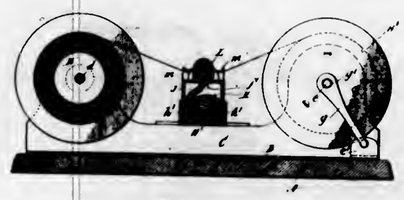
1. In a trolley wire splicer, relatively shifting sections adapted for engagement with the ends of a trolley wire, one of said sections having a longitudinal bore, means for shifting said sections toward and away from one another, a flat blade carried by one of the sections and fitting into the bore formed to the other section, and means extending through the wall of the bored section into the bore and engaging the blade for preventing shifting of the sections without the operation of the shifting means.

1,391,138. PRESSURE-GAGE. RALPH MCKINLEY NELSON, Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y., a Corporation of Pennsylvania. Filed Sept. 20, 1920. Serial No. 411,429. 3 Claims. (Cl. 73—100.)



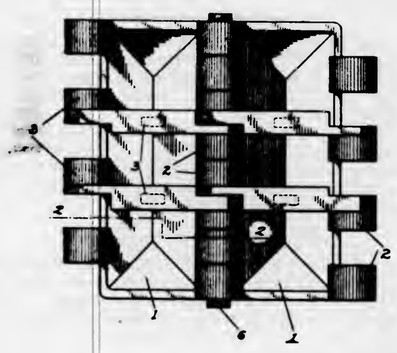
1. In a pressure gage, the combination with the same dial having two scales thereon and pointers for said scales, of a pressure tube rigidly mounted at a point intermediate its ends and nearer one end than the other, of means operated by the two free ends for turning the respective pointers proportionately to the movements of said ends.

1,391,139. INKER FOR TYPEWRITER-RIBBONS. WILLIAM R. ORMES, Waltham, Mass. Filed Dec. 27, 1920. Serial No. 433,318. 4 Claims. (Cl. 91—48.)



1. A device of the kind described comprising a base having reel supports mounted thereon, a tank support mounted between said reel supports, a tank detachably mounted in said tank support, a roll, a roll mounted on said tank, and guides mounted on said tank one on each side of said roll, one of said reel supports carrying a crank arm and the other having means adapted to apply tension to a reel mounted thereon.

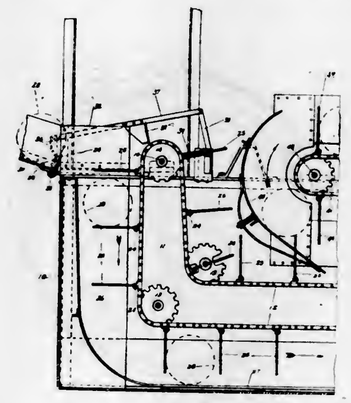
1,391,140. TRACK-LINK FOR TRACTORS. THOMAS R. PAULSEN, Los Angeles, Calif. Filed Dec. 19, 1919. Serial No. 346,112. Renewed July 26, 1921. Serial No. 487,723. 1 Claim. (Cl. 305—10.)



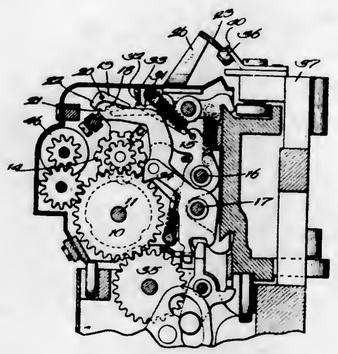
A link for tractor tread sections comprising a tread portion, parallel and horizontally alined webs arranged to support the rim of a sprocket wheel and to receive the teeth thereof therebetween and transverse bosses adapted to receive the sprocket teeth therenginst at the ends of the webs projecting therebetween, to a point adjacent the central plane between the webs, the boss at one end being in opposed relation from that at the other end, to permit the bosses of adjacent links to aline with each other and fit in the spaces between the inner termination of the bosses and the opposed webs.

4,391,141. CAN-WASHING MACHINE. WALTER H. PAULSON, Chicago, Ill., assignor to Harry D. Lathrop, Chicago, Ill. Filed May 22, 1920. Serial No. 383,333. 9 Claims. (Cl. 141—7.)

4. A washing machine comprising a tank; a conveyer passing downwardly into said tank adjacent one end thereof thence along the bottom thereof and then upwardly into a higher plane and back to a position adjacent the entry end of said tank, and finally upwardly and across the top of said tank above the normal fluid level thereof; and washing means cooperating with said conveyer during its travel above said tank, substantially as described.



1,391,142. LOCK FOR TOTALIZERS. ARTHUR F. POOLE, Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y., a Corporation of New York. Filed Feb. 21, 1920. Serial No. 360,362. 9 Claims. (Cl. 235—130.)

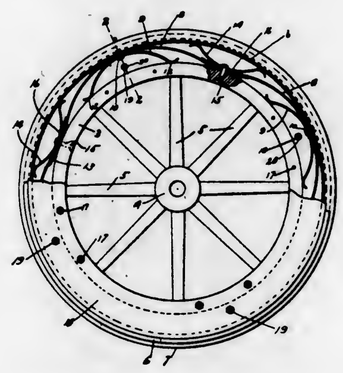


4. In a calculating machine, the combination of a totalizer, means for inserting numbers therein, a traveling carriage, a locking bar in said totalizer, and means operated by the travel of the carriage for moving said bar to locking and unlocking positions.

1,391,143. VEHICLE-WHEEL. RANSOM E. RATHBUN, Sioux City, Iowa. Filed Apr. 12, 1921. Serial No. 460,666. 2 Claims. (Cl. 152—37.)

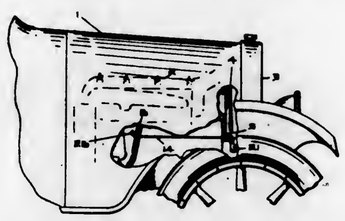
1. A vehicle wheel including a felly, a rim encircling and spaced from the felly, pairs of leaf springs arranged at intervals between the felly and rim, each pair including relatively long and short springs suitably secured at their centers to the rim, the end portions of the shorter spring being curved inwardly to engage the felly, and the end portions of the longer spring being curved inwardly and overlapped with the end portions of the corresponding springs of the adjacent pairs, leaf

springs disposed between the pairs and having their end portions in engagement with the rim and their intermediate portions resting on the overlapped end portions



of said long springs, said overlapping end portions being slotted longitudinally, and members on the felly passing through the slots and said third springs.

1,391,144. FUEL-MIXTURE CONTROLLER. RICHARD E. RUSSELL, Perrysburg, Ohio. Filed Sept. 20, 1919. Serial No. 325,266. 12 Claims. (Cl. 123—124.)



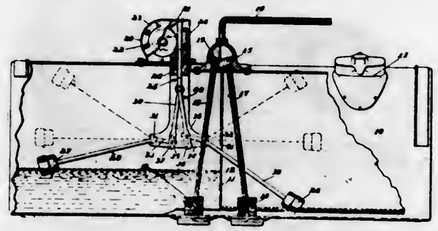
1. An internal combustion motor, a fuel supply intake therefor, a vehicle actuable by the motor, and mechanism affected by the speed of the vehicle coacting to modify fuel supply to the intake independently of the speed of the motor.

1,391,145. FLOUR-SIFTER. FRANK SMETANA, Chicago, Ill. Filed July 7, 1919. Serial No. 309,084. 4 Claims. (Cl. 83—60.)



1. In combination with a flour sifter having a sieve, an agitating member comprising a stem; flanges on the lower end of said stem; sieve sweeping means mounted in said flanges; a shaft mounted in said flanges; flour crushing members mounted on said shaft; and means for moving said sweeping means and crushing members over said sieve, substantially as described.

1,391,146. INDICATOR MECHANISM. MILTON TIBBETTS, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Dec. 16, 1914. Serial No. 877,539. 23 Claims. (Cl. 73—82.)



1. The combination with a tank having a plurality of compartments, of a single indicator device, and means controlled by the liquid level in the several compartments and adapted to operate the indicator to indicate the level in that compartment having the lowest level.

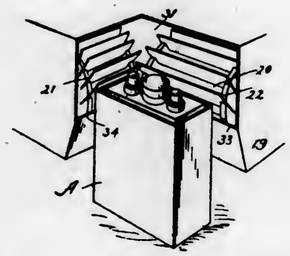
1,391,147. PROCESS OF SYNTHESIZING TITANIUM-NITROGEN COMPOUNDS. FOORD VON BICHOWSKY and JOHN F. HARTHAN, Pomona, Calif. Filed June 1, 1920. Serial No. 385,561. 4 Claims. (Cl. 23—13.)

1. The process for synthesizing titanium-nitrogen compounds, which consists in heating an oxygen-containing titanium compound, carbon, an alkali metal salt and a metal of the iron group in the presence of nitrogen to form a nitrid.

1,391,148. PROCESS FOR THE SYNTHETIC PRODUCTION OF TITANIUM-NITROGEN COMPOUNDS. FOORD VON BICHOWSKY and JOHN F. HARTHAN, Pomona, Calif. Filed June 1, 1920. Serial No. 385,562. 9 Claims. (Cl. 23—13.)

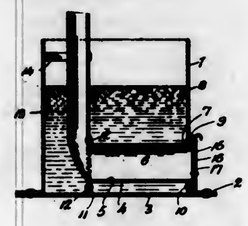
8. The process for the synthetic production of titanium-nitrogen compounds, which consists in heating an oxygen-containing titanium compound in the presence of nitrogen and a hydrocarbon gas or vapor, and then recovering the resulting titanium-nitrogen compound.

1,391,149. APPARATUS FOR SEALING STORAGE-BATTERY JARS. THEODORE A. WILLARD, Cleveland Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a Corporation of West Virginia. Filed Feb. 28, 1920. Serial No. 362,147. 13 Claims. (Cl. 18—5.)



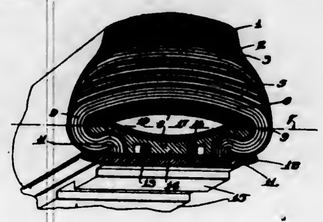
1. In an apparatus for sealing storage battery jars, a receptacle adapted to be provided with sealing compound, and adjacent which a jar to be sealed is adapted to be placed, and means in the receptacle for wiping over the top edge of the jar when supported in a predetermined position with respect to the receptacle so as to deposit a sufficient amount of sealing compound for sealing purposes.

1,391,150. STOCK-WATERING TANK. EDWARD H. WILLIAMS, South Bend, Ind., assignor to Perkins Corporation, Mishawaka, Ind., a Corporation of Indiana. Filed Apr. 1, 1921. Serial No. 457,685. 1 Claim. (Cl. 126—367.)



The combination with a stock watering tank having a horizontally disposed bottom, of a heater therefor, said heater comprising a horizontally disposed casing forming a fire box, said casing being semi-circular in vertical transverse cross section and having its flat side in parallel relation to the bottom of the tank and spaced therefrom, the forward end of said casing extending through the front wall of the tank and secured thereto, the rear end of said casing terminating in a marginal flange disposed in a vertical plane, the lower side of said flange forming means for spacing the rear end of the casing from the bottom of the tank, a vertically disposed stack carried by the rear end of the heater and spaced from the rear wall of the tank, said stack being provided with a flange at its lower end, said flange being secured to the flange at the rear end of the horizontally disposed casing.

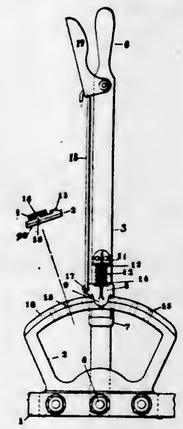
1,391,151. RESILIENT ANNULAR BODY. JOSEPH S. WILLIAMS, Riverton, N. J. Original application No. 761,192, filed Apr. 13, 1913. Divided and this application filed Dec. 20, 1917. Serial No. 208,037. 13 Claims. (Cl. 152—10.)



1. A resilient annular body comprising an annular and transversely elongated innermost portion bisected by the major transverse axis, of flattened arch formation in transverse cross section outwardly of said axis, with curvatures about the sides and inwardly of the seating parts, an annular and transversely disposed flexible tension belt in and about said flattened arch formation and in curvatures about the sides to the seating part, an annular and transversely disposed resilient supporting trussing portion bonded with and encircling said tension belt, an outer annular and transversely disposed outermost tension belt bonded with and encircling said resilient trussing portion, and a tread wearing part encircling and supported by said outermost tension belt.

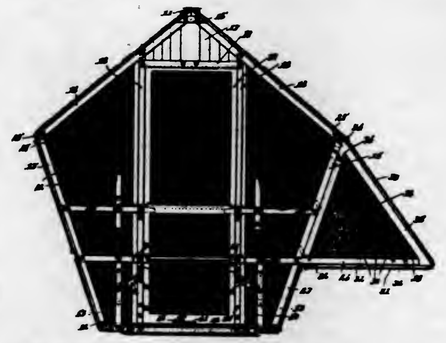
1,391,152. LEVER. FREDERICK D. WILSON, Moline, Ill., assignor to Deere & Company, Moline, Ill., a Corporation of Illinois. Filed Oct. 3, 1919. Serial No. 328,227. 5 Claims. (Cl. 74—39.)

1. In a lever mechanism, the combination of a sector, a lever pivotally mounted to rock lengthwise of the sector, means on one side of the arc coacting with means on the lever to hold the latter from rocking, said means separable by springing the lever laterally whereby the lever



is free to be rocked, and means on the lever in contact with the other side of the arc to hold the lever from lateral movement, said means adapted to be raised to free the lever simultaneously with the lateral swing thereof.

1,391,153. SWING. BERNHARD H. WITTE, Chicago, Ill. Filed Apr. 12, 1919. Serial No. 289,505. 7 Claims. (Cl. 155—63.)



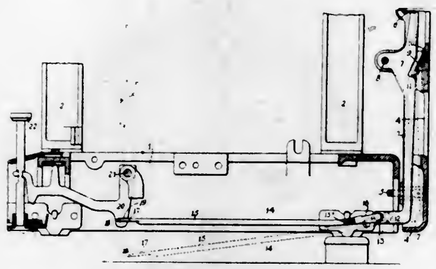
1. In a convertible frame swing suspended from a support having oppositely disposed seats, the back of one of said seats being pivotally mounted to move to a horizontal position and be retained in such position; a hinged leaf for engaging the outer end of said seat to cover same; and a member extending from one seat to the other to provide a bedding support, substantially as described.

1,391,154. ALKALI SALTS OF OXIDIZED PROTALBINIC ACID AND OF OXIDIZED LYSALBINIC ACID AS STABLE PROTECTIVE COLLOIDS FOR MERCURY COMPOUNDS. MARI E. WOLVEKAMP, Oakland, Calif. Filed Mar. 27, 1920. Serial No. 369,204. 2 Claims. (Cl. 167—9.)

1. The alkali salts of oxidized protalbinic acid and of oxidized lysalbinic acid in combination with a mercury compound.

2. The alkali salts of oxidized protalbinic acid and of oxidized lysalbinic acid in combination with mercuric salicylate.

1,391,155. TYPEWRITING-MACHINE. OSCAR WOODWARD, Babylon, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed May 3, 1919. Serial No. 294,555. 4 Claims. (Cl. 197—178.)



2. In tabulator mechanism for typewriting and like machines, the combination of a detachable tabulator frame, a tabulator stop actuating-member carried by and detachable with said frame, a key controlled member carried by the frame of the machine, a link including means by which the length of the link may be adjusted at will, said link being pivoted to and supported at one end by the stop actuating member and removable therewith when the tabulator frame is detached, and means for detachably connecting the other end of said link to and supporting it by said key controlled member, the character of the detachable connecting means being such as to enable a detachment of the link to be effected by a mere lengthwise movement of the link from its normal position independently of the key controlled member.

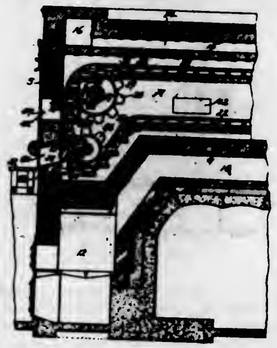
1,391,156. RAZOR-STROP. LEO F. WORTH, South Bend, Ind. Filed Sept. 13, 1920. Serial No. 410,046. 1 Claim. (Cl. 51—198.)



A razor strop comprising an elongated member formed from flexible stropping material and adapted to encircle the palm of the hand, said member being wider at its central point than at its ends and gradually tapering in width toward its ends, said strop being adapted to encircle the hand and have its wide portion centrally disposed within the palm of the hand, the forward edge of the palm registering portion of the strop terminating adjacent the inner joints of the fingers, and the rear edge of the strop terminating forwardly of the inner thumb joint, thereby allowing the strop to be flexed outwardly longitudinally incident to partial closing of the fingers of the hand.

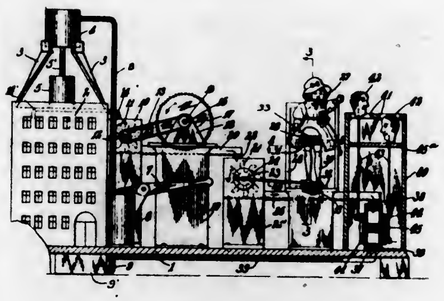
1,391,157. BAKER'S OVEN. OTTO WUNDRACK, Maywood, Ill., assignor to Theresia Wundrack, Chicago, Ill. Filed Mar. 11, 1920. Serial No. 364,937. 4 Claims. (Cl. 107—57.)

1. In a bakers' oven, a baking chamber the entrance to and discharge from which is through its front wall, an endless hearth comprising endless chains, and a series of hearthstones suspended from said chains that have their supporting surfaces below their points of suspension throughout the length of said chains, and a longitudinally adjustable incline the highest end of which is at the rear of the discharge opening in the front wall of the oven and



which has a convex surface extending down from its highest end which is engaged *scrauing* by said hearthstones and tipped to dump their contents onto said incline.

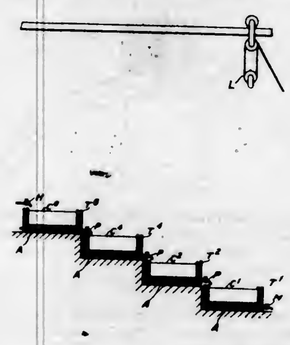
1,391,158. AUTOMATIC WATER-DRIVE FOR TOYS AND MACHINERY. BÉLA ZSARNAY, Belleville, N. J., assignor of one-half to Abraham Lewis, Newark, N. J. Filed Aug. 25, 1920. Serial No. 405,993. 3 Claims. (Cl. 46—37.)



1. In a toy, a water wheel, a compound doll figure comprising oppositely facing elements, a pair of legs for each element, and means connecting the said legs to the said water wheel for oscillating the legs of each element in unison.

1,391,159. METHOD OF MANUFACTURE OF MALT EXTRACT. SAMUEL HAROLD GREEN, Leiant, and JOHN DUNSTAN OPIE, Hayle, England. Filed Dec. 5, 1916. Serial No. 135,251. 1 Claim. (Cl. 167—4.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

The process of manufacturing extracts of malted materials, which consists in treating separated quantities of malted materials with hot water, in a series of steps, the first step being at the most favorable temperature for diastatic action and consisting chiefly in saccharifying the malted material with water already rich in extracted matters, intermediate steps consisting in further saccharification and partial washing of the malted materials for conversion of the starchy matters with the saccharifying action decreasing, the conversion increasing and the temperature increasing as the final step is approached, said final step consisting of a conversion at boiling temperatures whereby said starchy matters are carried into the



earlier-treated quantities of malt, each step being carried out during a fixed interval of time, and afterward concentrating the extract so obtained.

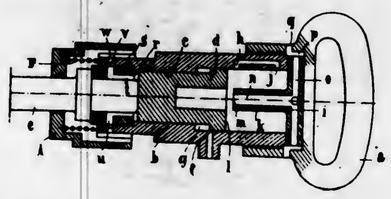
1,391,160. FOOD PRODUCT AND PROCESS FOR MAKING THE SAME. FREDERICK C. ATKINSON, Indianapolis, Ind., assignor to American Hominy Company, Indianapolis, Ind., a Corporation of New Jersey. Filed Apr. 4, 1919. Serial No. 287,521. 3 Claims. (Cl. 99—10.)

1. The process of preparing a food product consisting in cooking hominy, converting the same into flakes while at a high temperature and in a soft cooked condition resulting in tenacious flakes producing a hydrated form of starch, then drying, then crushing the dried flakes, and then screening out the product intermediate the finest and the coarsest, substantially as set forth.

1,391,161. FOOD PRODUCT AND PROCESS OF PREPARING. FREDERICK C. ATKINSON, Indianapolis, Ind., assignor to American Hominy Company, Indianapolis, Ind., a Corporation of New Jersey. Filed May 27, 1919. Serial No. 300,128. 2 Claims. (Cl. 99—11.)

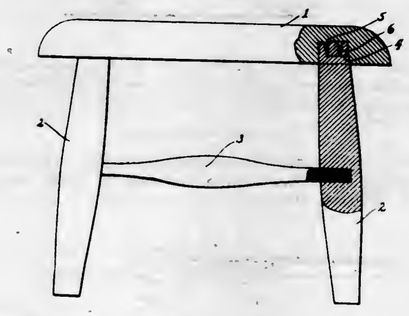
2. The method of producing pre-cooked food products from cereals which consists in cooking the cereal in the presence of moisture and in a temperature between 85° to 100° centigrade, then crushing the moist and hot cooked product between rolls heated to a temperature of between 85° and 110° centigrade, then drying the product, and then grinding it, substantially as set forth.

1,391,162. PNEUMATIC HAMMER. ARMAND BAILLY, Paris, France. Filed July 7, 1920. Serial No. 394,591. 2 Claims. (Cl. 121—17.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



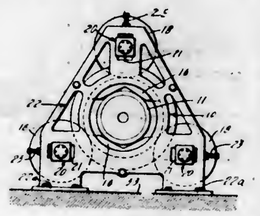
1. In a hammer, the combination of a cylinder; a handle connected to one end of the cylinder and provided with a central discharge tube for the spent motive fluid and with ducts leading from said tube to the atmosphere, said tube extending into the interior of the cylinder; a reciprocating percussive piston in said cylinder having an inwardly-extending recess in its rear end to receive said tube; means for supplying motive fluid under pressure across the cylinder; an annular shoulder on the rear portion of the piston to be acted on by said fluid; and a duct in the wall of the cylinder for by-passing the fluid from one side of said shoulder to the other.

1,391,163. JOINT. FRANK H. BANCROFT, Gardner, Mass., assignor to P. Derby & Company, Gardner, Mass., a Corporation of Massachusetts. Filed May 24, 1919. Serial No. 299,500. 4 Claims. (Cl. 20—92.)



1. A joint for wooden articles comprising a wooden member having a socket, a tubular ridge of wood projecting integrally from the base of said socket, and a second wooden member having an annular kerf therein, said second member being adapted to fit into said socket, the said ridge coöperating with said kerf to expand the end of said second member in said socket.

1,391,164. MACHINE FOR CENTRIFUGAL FORMATION OF PLASTIC BODIES. HENRY BARKSCHAT, Los Angeles, Calif. Filed Mar. 1, 1920. Serial No. 362,528. 6 Claims. (Cl. 25—30.)

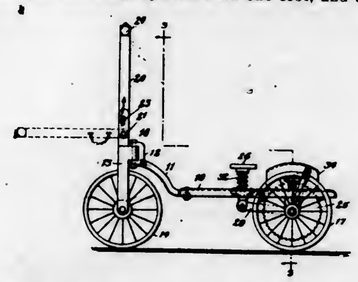


1. In a machine of the character described, a frame, a mold, and means for rotatably supporting the mold in the frame comprising a plurality of rollers carried by the frame around the mold to equally yieldingly support the mold.

1,391,165. CHILD'S VEHICLE. WILLIAM N. BEST, Brooklyn, N. Y., assignor of one-fourth to George B. Phelps, New York, N. Y., one-fourth to Sarah A. Meisser, Quincy, Ill., and one-fourth to Margaret Stella Spies, Creston, Iowa. Filed Feb. 25, 1921. Serial No. 447,637. 1 Claim. (Cl. 208—35.)

A child's vehicle having front and rear wheels, a platform upon which the child may stand, a steering handle for the front wheel, pivotal connections therefor, whereby a handle may extend forwardly, rearwardly or upwardly, means for locking the handle in its upwardly extending

position, whereby the child may use it as a support while standing on the platform, vehicle propelling means including a pedal extending upwardly through said platform which the child may operate with one foot, and a seat of



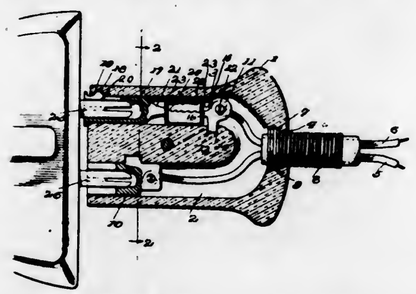
a width substantially equal to that of the platform and detachably secured to the latter for covering and rendering inoperative said pedal when the vehicle is used for drawing the child.

1,391,166. AUXILIARY HEATING-PLATE. JESSIE C. BRADLEY, Oakland, Calif. Filed Oct. 27, 1920. Serial No. 420,008. 2 Claims. (Cl. 126—216.)



1. A warming device including a ring adapted to rest under the top plate of a stove around the burner opening, a plate resting outside the depending edge flange of said top plate, a connecting member connecting said ring and said plate, and means for mounting the device under the top plate.

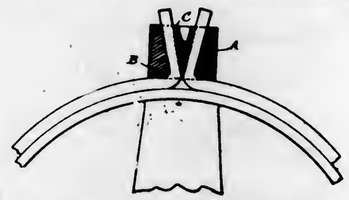
1,391,167. AUTOMATIC SWITCH. DEAN WILLIAM CARLSON, Manette, Wash. Filed June 12, 1920. Serial No. 388,627. 3 Claims. (Cl. 200—142.)



1. A plug switch including a casing having spaced terminal receiving channels, a contact member arranged in one of said channels and held against movement, a socket member removably secured in said channel, and a fuse strip arranged in said channel and bearing between the socket member and contact member.

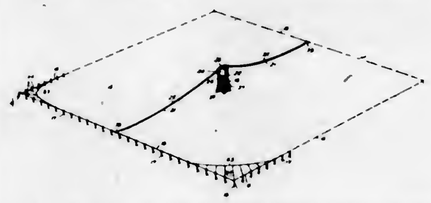
1,391,168. DEVICE FOR FASTENING BELTS. FRANK W. CARLSON, Oilfields, Calif. Filed Feb. 14, 1919. Serial No. 276,958. 1 Claim. (Cl. 24—31.)

A belt fastener comprising a rectangular frame having an interior of trapezoidal cross section and provided with a plane outer face at the base of the trapezoid and longitudinally curved at the side opposite the plane face, and a wedge having fluted sides at substantially the angle of the inclined walls of the trapezoid, the wedge provided with sockets in its base and the base of the wedge when



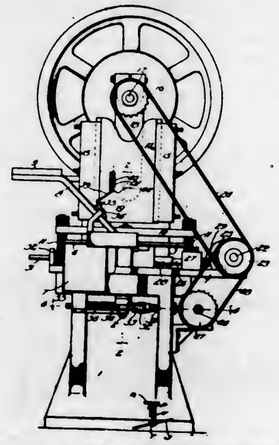
inserted being substantially co-planar with the said plane faces, the interior end walls of the frame closely fitting and guiding the ends of the wedge.

1,391,169. AGRICULTURAL SYSTEM. GEORGE A. CASE, Joplin, Mo. Filed Apr. 1, 1920. Serial No. 370,462. 9 Claims. (Cl. 299—58.)



1. An agricultural system comprising a source of fluid supply, a flexible perforated pipe extending from said source of supply to the border of an area to be treated, an elevated track around the border of said area, a supporting cable between the fluid supply and said track, a trolley attached to said cable to run on the track, and slidable suspending means on said cable for holding the perforated pipe.

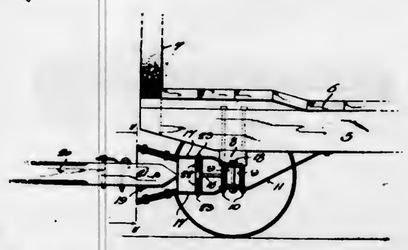
1,391,170. MACHINE FOR COMPRESSING LOCK-NUTS AND THE LIKE. ARTHUR B. CHADWICK, South Whitley, Ind., assignor to Grip Nut Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 24, 1918. Serial No. 251,264. 10 Claims. (Cl. 10—72.)



1. In a machine of the kind described, a compressing element, a coöperating reciprocating part arranged to depress said element, and mechanism for reciprocating said part,

in combination with a movable anvil block arranged beneath the compressing element, and means for moving said anvil to operative position to support a nut between said element and the block during the compression operation.

1,391,171. STEERING DEVICE FOR DRAWING-VEHICLES. HENRY DANIEL, Kiel, Wis., assignor to Kiel Machine Co., Kiel, Wis. Filed Sept. 25, 1919. Serial No. 326,247. 1 Claim. (Cl. 280—103.)

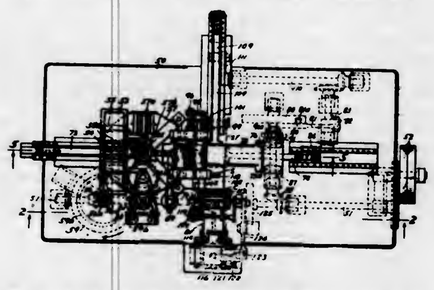


In a dirigible axle structure, the combination of a fixed axle, stub axles pivotally connected to the ends of the fixed axle and having steering arms extending forwardly, bowed companion links pivotally connected with the steering arms, companion bowed coupling arms pivotally connected to the upper and lower faces of the fixed axle centrally thereof and having their intermediate portions pivotally connected with the bowed companion links, said coupling bars terminating with divergent inclined faces, a hollow socket having companion divergent upper and lower walls, constituting seats for the divergent ends in rigid connection with the hollow socket head, and a tongue having its end in pivotal union with the socket head.

1,391,172. PRODUCTION OF ALUMINUM SALTS. CHARLES A. DOREMUS, New York, N. Y. Filed Oct. 28, 1919. Serial No. 333,914. 5 Claims. (Cl. 23—13.)

1. The process of producing aluminum salt solutions from alumina-bearing ores containing relatively large amounts of impurities such as iron compounds, silica or titanium oxid, which consists in roasting the ore, mixing it in suitable proportions with an acid capable of dissolving the alumina but leaving the other constituents as an insoluble residue, and separating the soluble aluminum salt and the insoluble residue.

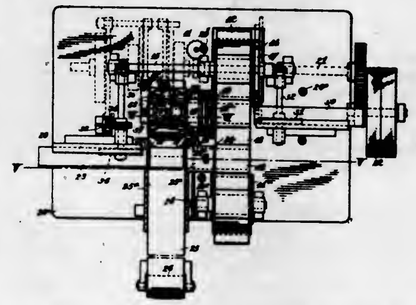
1,391,173. METHOD OF AND APPARATUS FOR PACKAGING ARTICLES. HILARION DE ESCOBALES, New York, N. Y., assignor to H. Escobales Co. Inc., New York, N. Y., a Corporation of New York. Filed June 8, 1917. Serial No. 173,558. 50 Claims. (Cl. 93—4.)



1. In packaging machines, wrapping mechanism having charge-receiving and wrapped-packet delivery stations and operative to wrap the article or charge while advancing from the charge-receiving to the packet delivery station, means for advancing the packet from said latter station in a predetermined path, means for positioning a stamp and a container blank at successive points in such path, and means for applying the stamp to the packet and for folding the container blank to inclose the packet and its applied stamp during travel in such path.

6. In a wrapping machine, means for conveying an assembled charge and wrapper along a predetermined path, and stationary elements adjacent said path for folding the wrapper about four consecutive faces of the charge, folding projecting marginal wrapper portions against the remaining charge faces to produce wing flaps, and folding said wing flaps flatwise against said remaining faces of the charge.

1,391,174. APPARATUS FOR PRODUCING PACKAGES. HILARION DE ESCOBALES, New York, N. Y., assignor to H. Escobales Co. Inc., New York, N. Y., a Corporation of New York. Filed Nov. 26, 1917. Serial No. 203,951. 67 Claims. (Cl. 93—2.)



1. In apparatus for applying wrapping elements to an embryo package, means for applying a strip of sheet material to one end of said package with a portion of said strip extending onto an adjacent side of the package, and means for applying to the package a cup type wrapper with the bottom of the cup wrapper at the opposite end of the package, and with a side of the cup overlying said portion of the strip, the construction being such that the part of the strip applied to the end of the package will be uncovered by said cup wrapper.

1,391,175. SIZE AND STYLE STAMP FOR INSOLES AND OUTSOLES OF SHOES. WILLIAM E. EDWARDS, Johnson City, and HARRY O. STALKER, Binghamton, N. Y. Filed Sept. 17, 1920. Serial No. 410,909. 2 Claims. (Cl. 101—368.)

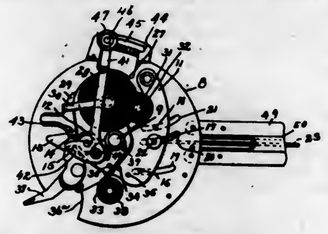


1. In a size and style stamp for insoles and outsoles, in connection with an operative vertical plunger part, supporting and moving a face plate in alinement with a bed plate beneath the same, and adapted to receive the pressure of the face plate, a sole pattern removably mounted on said bed plate, having a cross groove in the upper surface thereof, and a stamp having raised letters or figures in the upper face thereof mounted therein: a pressure plate mounted on said face plate in alinement with the pattern, a cross groove in the lower face thereof and means for vertical movement of the plunger and pressure plate.

1,391,176. LOCK-ALARM. LUIGI DELLAMARIA, Tulare, Calif. Filed May 21, 1921. Serial No. 471,323. 2 Claims. (Cl. 116—94.)

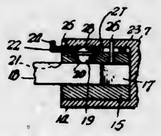
1. A lock alarm comprising a base plate; a spring mounted on said base plate; a hammer on the free end

of said spring; an operating member pivotally mounted on said base plate; a stopper pivotally mounted on the end of said operating member and adapted to engage said hammer at predetermined times; means mounted on said base plate to normally hold said stopper in its operative position and to be moved to render said stopper inoperative; means to hold said last means in its adjusted posi-



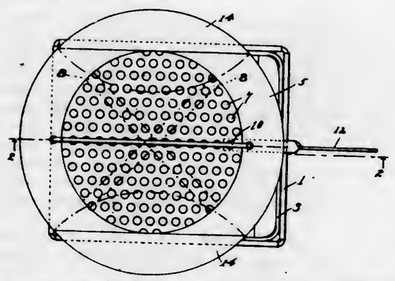
tion; a regulator pivotally mounted on said base plate adapted to release said hammer from said stopper; and means to adjust said last means to vary the travel of said hammer; a flexible connection from said operating member to a lock whereby when said lock is operated said flexible member will operate said operating member; and a bell mounted on said base plate.

1,391,177. CHUCK. GILES H. DU SELL, Chicago, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Original application filed Feb. 9, 1920, Serial No. 357,187. Divided and this application filed Jan. 10, 1921. Serial No. 436,053. 5 Claims. (Cl. 279—76.)
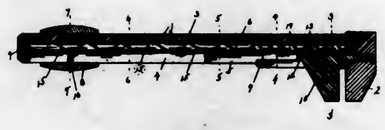


1. A chuck, comprising a head having a socket, a block with a recess to receive the shank of a tool fitted in said socket and held against rotation, said block having a hole therein arranged transverse to said recess and opening into the same, a plug slidably mounted in said hole and adapted to engage the tool shank for holding the same in said block, and a locking plate slidably mounted on said block between the same and said head and movable with respect to said plug into and out of position holding said plug in locking engagement with the tool shank.

1,391,178. ASH-SEPARATOR. HARRY T. EMERY, Norwood, Ohio, assignor of one-half to Miller Outcalt Dure, Norwood, Ohio. Filed May 29, 1920. Serial No. 385,345. 4 Claims. (Cl. 83—60.)



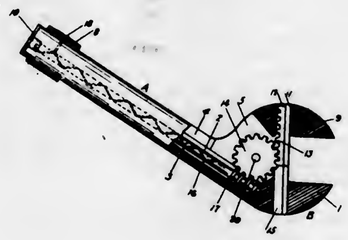
1. In combination with a furnace, a hopper arranged to be supported in said furnace under the grate bars thereof, said hopper being provided with hinged side walls to permit it to pass through the ash pit door of said furnace, and means for sifting ashes in said hopper.

1,391,179. MONKEY-WRENCH. EDWIN J. EVANS and GEORGE E. HEMPHILL, Salt Lake City, Utah, assignors to Universal Tool Company, a Corporation of Utah. Filed Dec. 30, 1920. Serial No. 434,082. 2 Claims. (Cl. 81—172.)



1. A monkey wrench comprising a longitudinally slotted and centrally bored shank with a jaw integral therewith; a rod having a helical groove cut therein and of two different pitches adapted to operate in the bore of said shank; a movable jaw; a flanged extension thereon having its face transversely threaded to engage in one portion of the groove of said rod and with the flanges engaging the edges of the slotted portion of said shank; a sleeve carried on said shank; and a pin fastened in said sleeve with its end engaged in the other portion of said groove.

1,391,180. WRENCH. EDWIN J. EVANS and GEORGE E. HEMPHILL, Salt Lake City, Utah, assignors to Universal Tool Company, a Corporation of Utah. Filed Mar. 2, 1921. Serial No. 449,167. 1 Claim. (Cl. 81—165.)

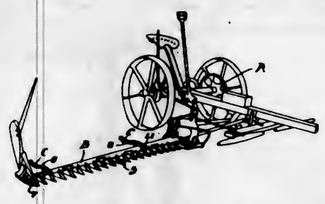


A wrench comprising a centrally bored shank with a longitudinal slot opening into said bore; an angularly disposed head integral with said shank and having one portion formed as a jaw; there being a guide recess cut through said head at an acute angle and connected with the bore of said shank; a movable jaw having a flanged web portion operable in said guide recess; a rack bar on the web portion of said movable jaw; a spirally grooved spindle carried in the bore of said shank; a worm pinion formed on one end portion of said spindle; a worm gear journaled in said head with its teeth engaging said worm pinion and rack bar; a sleeve slidable on said shank; and a pin carried in said sleeve with its inner end engaged in the groove of said spindle.

1,391,181. RUNNER FOR SICKLE-BARS. HARM FRANZEN, Phoenix, Ariz. Filed Dec. 15, 1920. Serial No. 430,933. 4 Claims. (Cl. 56—303.)

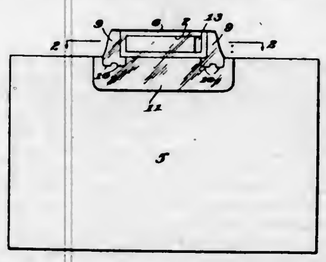
1. In a mowing machine, the combination of a cutter bar, of a runner attachment therefor including an attaching foot for engaging one face of the cutter bar, a fastening element arranged to extend through the said foot and

cutter bar, said runner having a slot therein, a clamp for engaging the face of the cutter bar opposite to the face



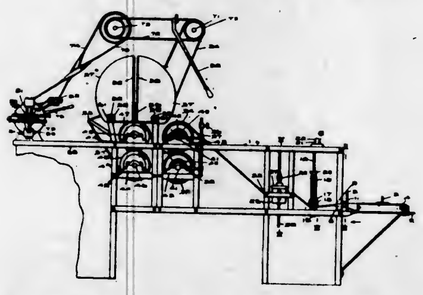
engaged by the attaching foot, and an adjusting bolt carried by the clamp and slidably mounted in said slot.

1,391,182. INDEX-CARD. LABURTON A. GALE, Belmont, Mass., assignor to Library Bureau, Cambridge, Mass., a Corporation of New Jersey. Filed Nov. 14, 1919. Serial No. 338,015. 6 Claims. (Cl. 129—16.8.)



3. An index card comprising a body, and a composite tab attached to the edge of the body comprising a middle piece, end pieces, the bases of which are inset into recesses provided therefor in the margin of the card body, and a cover of transparent sheet material folded over said middle and end pieces with its margins secured to the card body.

1,391,183. MATERIAL-HANDLING. HERMAN A. GILLIAN, Toledo, Ohio, assignor to The Bacon Bros. Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 15, 1920. Serial No. 374,061. 3 Claims. (Cl. 26—2.)



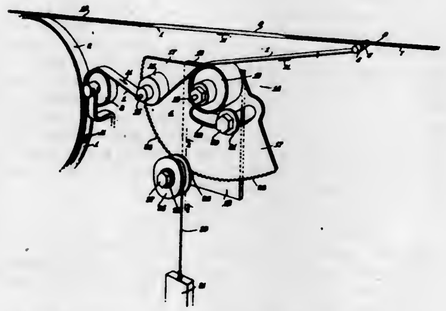
1. A material treating apparatus for strip fabric embodying a frame, a pair of opposing gripping rolls carried by the frame for receiving material therebetween, a steaming chamber carried by the frame adjacent the rolls, a pair of ironing rolls, and a pair of drawing rolls therebeyond, said ironing and drawing rolls being also carried by the frame, said drawing rolls being operable for pulling material through the receiving rolls, through the chamber and about the ironing rolls.

1,391,184. BELT-GUIDING MEANS. WILLIAM F. GRUPE, Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc., a Corporation of New York. Filed May 31, 1919. Serial No. 300,930. 4 Claims. (Cl. 74—51.)



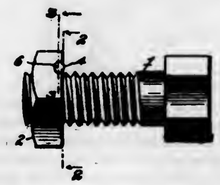
4. The combination of a substantially flat belt and means for diverting the path of travel of said belt at any given single location to provide for the travel of the belt in the flat position anteriorly and posteriorly of said given single location, said diverting means comprising a pair of guiding members arranged oppositely to one another and laterally of the belt, anterior means for mounting said pair of guiding members adjacent said given single location, said guiding members having guiding faces extending at an angle to one another, and adjustable means for said mounting means for adjusting the positions of said guiding members relative to said belt.

1,391,185. SELF-ADJUSTING TENSION MEANS. WILLIAM F. GRUPE, Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc., a Corporation of New York. Filed May 31, 1919. Serial No. 300,931. 4 Claims. (Cl. 64—5.)



3. The combination with a belt, of an idler adapted to engage said belt, a segment, means for mounting said idler on said segment, a pinion, a fixed stud movably supporting said pinion, a sheave in fixed relation with said pinion, a yieldable element passing about said sheave and a replaceable weight connected to said yieldable element.

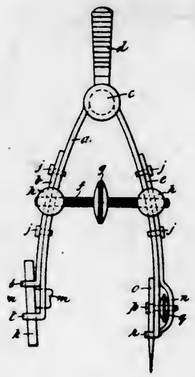
1,391,186. NUT-LOCK. RAYMOND T. HILL, Detroit, Mich. Filed Jan. 22, 1921. Serial No. 439,155. 3 Claims. (Cl. 151—34.)



1. In a device of the class described, the combination with a bolt provided with threads, of a nut on the threads

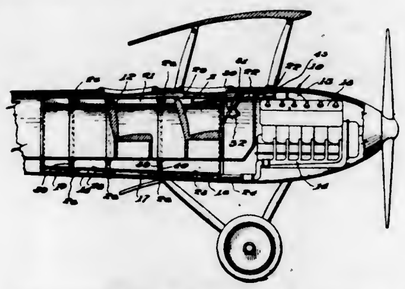
of said bolt, said nut provided with a pocket formed in its side, said pocket provided with a side-opening, a ball in said pocket and having a portion projecting through the side-opening thereof, and said ball engaging the threads of the bolt as and for the purposes set forth.

1,391,187. DRAWING-COMPASSES. JOHN HORWOOD, Hoxton, London, England. Filed Mar. 15, 1920. Serial No. 366,010. 1 Claim. (Cl. 33—154.)



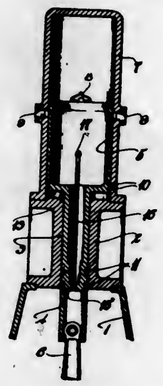
Spring-bow compasses comprising a handle, a bow spring fixedly secured at its center to said handle, the legs of the bow-spring being arcuate and having perforated projections at their ends, one of said legs having secured thereto a member having a perforated projection spaced from the projection at the end of the leg, said leg being provided between said projections with a tapered slot, a spring clip slidable in said slot and adapted to hold a marker receivable in the perforations of said projections, the other leg being similarly slotted, means for adjustably securing a needle point in the perforation of said other leg, and means for adjusting the legs of said bow spring relaticely to each other.

1,391,188. COOLING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. JOHN DEWEY HOUSTON, Prineville, Oreg. Filed May 13, 1919. Serial No. 296,856. 15 Claims. (Cl. 244—31.)



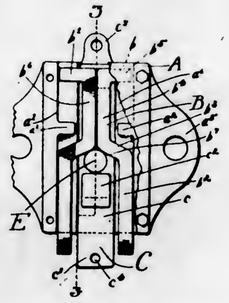
1. The combination with an internal combustion engine having a cooling chamber, of a radiator comprising a plurality of compartments, means establishing successive communication between said compartments, conduits establishing communication between said radiator and the cooling chamber of said engine, and means whereby certain of said compartments may be cut out of operative communication with said cooling chamber.

1,391,189. INTERNAL-COMBUSTION ENGINE. THOMAS A. HUTSELL, Spokane, Wash., assignor to The Hutsell Motor Company, Spokane, Wash. Filed Jan. 3, 1920. Serial No. 349,283. 1 Claim. (Cl. 123—74.)



The combination with a tubular cylinder and piston support and its cylinder and combustion chamber, of an open inverted piston, a hollow piston stem in said support, a partition closing the lower end of said stem and an oil pipe threaded therein with its upper end in the piston, radiating branch pipes from said oil pipe passed through the walls of said piston, said partition having an oil passage extending from the lower end of the oil pipe and said base having a supply passage adapted to register therewith, intake and exhaust ports to the cylinder, and means for establishing communication for a fuel charge between the combustion chamber and hollow piston stem controlled by the movement of the stem.

1,391,190. CLUTCH-TRIP MECHANISM. WILLIAM H. KAPPES, Cincinnati, Ohio, assignor to The Verdin, Kappes & Verdin Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Aug. 5, 1920. Serial No. 401,543. 6 Claims. (Cl. 192—116.)

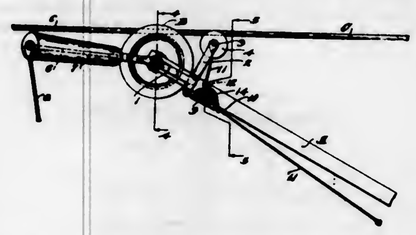


1. In a clutch trip device the combination with a trip bar, of means adapted to be separately reciprocated and a ball adapted to transmit the joint movement of the reciprocating means to the trip bar.

1,391,191. TROLLEY GUARD AND FINDER. PATRICK JOSEPH KELLEY, Detroit, Mich. Filed June 14, 1921. Serial No. 477,497. 3 Claims. (Cl. 191—73.)
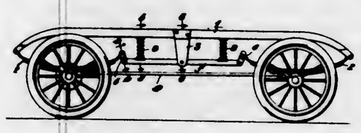
1. A finder for car trolleys comprising a bracket to be pivotally mounted on the trolley, said bracket including

spaced divergent arms constituting journals, tapered rollers mounted on the latter for feeding the wire in-



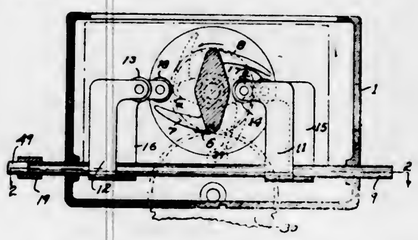
wardly into the groove of the trolley wheel, and means for swinging said bracket on its pivots to render said rollers operative.

1,391,192. SPRING SUSPENSION FOR VEHICLES. GEORGE MORTIMER KELSEY, Grand Forks, N. D. Filed Dec. 22, 1920. Serial No. 432,485. 2 Claims. (Cl. 267—19.)



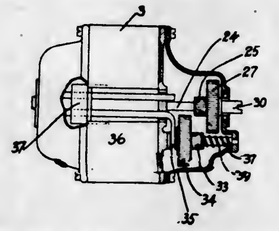
1. The combination with the semi-elliptical supporting springs of a vehicle chassis, the adjacent ends of which are free, of equalizing bars pivotally supported by the opposite sides of the chassis and extending parallel thereto, having their opposite ends pivotally connected to the adjacent free ends of the semi-elliptical supporting springs, and other spring means arranged between the opposite end portions of the equalizing bars and the corresponding portions of the vehicle chassis sides.

1,391,193. AUTOMATIC GEAR-SHIFTING DEVICE. JOHN KIRKEBY, San Luis Obispo, Calif. Filed Nov. 27, 1920. Serial No. 426,792. 5 Claims. (Cl. 74—58.)



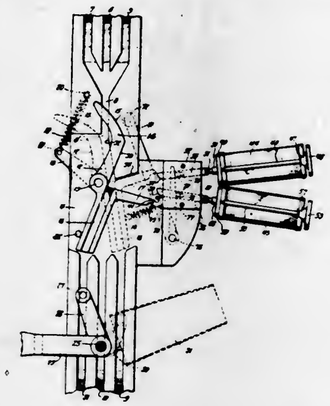
1. A gear shifting device for a sliding gear change transmission, comprising horizontal rods controlling the shifting rods, a pair of arms rigidly secured to each horizontal rod, a cam shaft mounted transversely to said rod in operative relation to the arms, said cam shaft having two opposing cams extending throughout its operative area adapted to dispose all the arms simultaneously at an equal distance from its axis, whereby all gears are thrown into neutral upon a certain turning of said cam shaft, and tangential fingers on each cam of increasing radial distance from its axis adapted to engage, on a continuation of the turn, any one of the arms and to push it farther from its axis, whereby a corresponding gear is engaged.

1,391,194. ENGINE-STARTING SYSTEM. CHARLES F. KETTERING and WILLIAM A. CHRYST, Dayton, Ohio, assignors to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Original application filed May 25, 1915. Serial No. 30,399. Divided and this application filed Oct. 31, 1917. Serial No. 199,411. 9 Claims. (Cl. 290—31.)



8. In an engine starter, the combination with a dynamo-electric machine having an armature and field magnets; of means for connecting the engine and machine including a shiftable gear; and means for actuating said gear including a part independent of said armature and shiftable into proximity to adjacent poles of said field magnets by magnetic attraction.

1,391,195. SWITCHING OR SELECTING MECHANISM. LESTER L. LADD, Chicago, Ill., assignor to Photometric Products Corporation, Chicago, Ill. Filed Dec. 13, 1920. Serial No. 430,268. 30 Claims. (Cl. 83—92.)

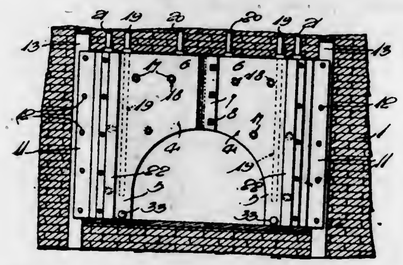


1. A device of the character described comprising a plurality of substantially parallel horizontally extending tracks, a switch member adapted to assume a plurality of positions relative to said tracks to direct a member traveling along a common track into any one of said tracks and means for controlling the position of said switch member.

1,391,196. OPEN-HEARTH-FURNACE DOOR AND FRAME. GEORGE LAW, York, Pa. Filed May 6, 1920. Serial No. 379,393. 1 Claim. (Cl. 122—498.)

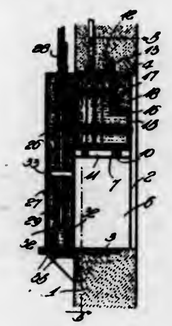
The combination with an open hearth metal furnace having a rectangular door opening and vertical bars at the sides of said opening; of two substantially flat, inverted L-shaped, ring angular, water casings disposed in a common vertical plane and snugly received in said door opening with the free ends of their horizontal arms abutting each other and detachably bolted together,

vertical flanges on the outer edges of said vertical arms of said casings and extending throughout the length thereof, said flanges being detachably bolted to said vertical bars and serving both as attaching means and stiffening means for the vertical edge walls of the



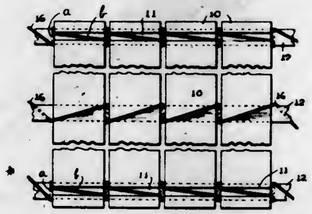
casings, a pair of parallel vertical tracks secured to the outer side walls of said vertical arms of the casings and extending throughout the length thereof to additionally stiffen said casings, said tracks having inturned flanges parallel with and spaced outwardly from the casings, and a door slidable between said tracks.

1,391,197. OPEN-HEARTH-FURNACE DOOR AND FRAME. GEORGE LAW, York, Pa. Filed July 15, 1920. Serial No. 396,395. 1 Claim. (Cl. 122—499.)



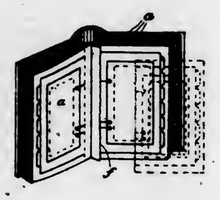
The combination with a metal furnace having a rectangular door opening: of an arched water-cooled door frame fitting snugly in said door opening, the crown of said frame having the upper and lower halves of its back wall offset horizontally, forming a horizontal ledge extending forwardly from the upper edge of said lower half and a vertical wall rising from the front edge of said ledge, said ledge and wall jointly providing a right-angular seat extending throughout the length of said crown, a rigid beam snugly received in said seat and anchored at its ends in the furnace wall, means rigidly securing said vertical wall to said beam to reinforce said crown; said crown being transversely divided at its central point into two sections, a pair of angle iron bars extending longitudinally along the upper edges of said sections and having their inner ends bent to form upstanding lugs disposed in contact with each other, means securing said lugs together, one flange of each angle iron bar being secured to said crown while the other flanges of said bars are embedded in the furnace wall, a pair of relatively short angle iron bars having horizontal flanges extending transversely of and secured to the lower edges of the aforesaid crown sections, said bars having vertical flanges in contact with each other, and means securing these vertical flanges together.

1,391,198. BARREL OR CRATE. GEORGE A. LE FEVRE, Richmond Hill, N. Y., and HUBERT HUTCHINSON, Newark, N. J., assignors to Paxflat Barrel & Crate Corporation, New York, N. Y., a Corporation of New York. Filed Mar. 23, 1920. Serial No. 368,069. 7 Claims. (Cl. 217—44.)



1. A structure of the kind described having a body portion formed of parallel slats, flexible hoops extending across the outer parts of the slats, means for fastening the hoop ends together, inner bands or binders extending across the inner parts of the slats opposite the hoops, and a connection between the inner bands and the outer hoops which permits the hoops to slide endwise of themselves.

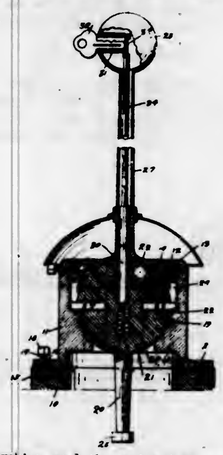
1,391,199. MANUFACTURE OF BOOKS. RICHARD BORLASE MATTHEWS, East Grinstead, England. Filed Jan. 9, 1920. Serial No. 350,324. 2 Claims. (Cl. (283—63.)



1. A book made up of pages printed in multiple form, folded, cut and adapted to be permanently bound in sections in a book, each of said pages having a narrow blank outer binding edge formed by a narrow strip along one side, sewn and permanently bound with the page in book form, an indication on each page parallel with said binding edge along which the remaining portion of the page may be separated from said strip, and markings adjacent said indication serving to enable the separated portion of the page to be accurately perforated and filed away in a loose leaf binder, each of said pages having letter press only in a space inclosed by the edges of the sheet to be separated, for the purposes set forth.

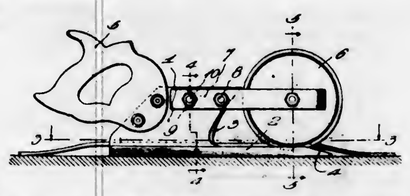
1,391,200. LOCKING DEVICE FOR GEAR-SHIFT LEVERS. CLAUDE E. MENTZER, Des Moines, Iowa, assignor, by direct and mesne assignments, to The Eclipse Machine Company, Elmira, N. Y., a Corporation of New York. Filed Oct. 28, 1919. Serial No. 334,060. 2 Claims. (Cl. 70—128.)

1. In a device of the class described, a lever member mounted for universal movement, a second lever member adjacent thereto for universal movement, a recess in one of said lever members, a spring actuated tumbler in said recess, the other of said lever members being hollow, a lock controlled actuating arm in the other of said lever members, the parts being so arranged that when the actuating member is in one position of its movement and the recess in the first lever member registers with the hollow end of the other lever member, said tumbler will be projected into the other lever member, whereas when the actuating member is not in this position of its move-



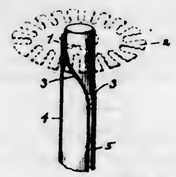
ment, the tumbler and the actuating member will stand with their adjacent ends at the joint between the two lever members, thereby permitting free movement of one lever member with relation to the other.

1,391,201. LINOLEUM-CUTTER. WILLIAM J. MILLS, Hazleton, Pa. Filed July 1, 1920. Serial No. 393,287. 2 Claims. (Cl. 164—84.)



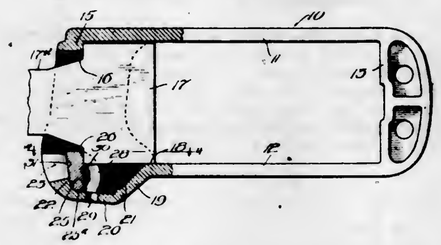
1. A cutter of the character described, comprising a blade disposed in a vertical plane and having an operating handle at its rear end, the front end of said blade being sharpened, a pair of strips secured to opposite sides of said blade at the lower edge of the latter, said strips extending forwardly from the blade and being beveled to slide beneath the material being cut, an arm secured to the upper edge portion of said blade and extending forwardly therefrom, and a rotary cutting disk mounted on the front end of said arm, the lower edge portion of said disk being received between the front ends of said strips.

1,391,202. DISK-STACKING DEVICE. WILLIAM E. MOORE, Detroit, Mich., assignor to William J. Hartwig, Detroit, Mich. Filed Nov. 8, 1920. Serial No. 422,532. 5 Claims. (Cl. 29—84.)



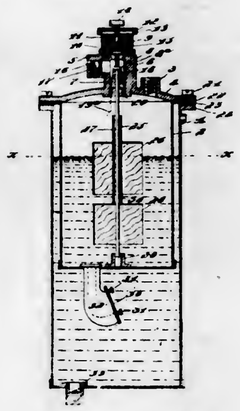
1. In a stacking device for the disks of armature cores, the combination of a pedestal and a collar rotatable thereon, said pedestal having a transverse groove across its top and said collar having a rib extending downwardly into said groove, a hub on the collar having a central hole adapted to receive a stacking pin, and means to turn the collar back and forth on a vertical axis.

1,391,203. DRAFT-GEAR YOKE. GEORGE C. MURRAY, Chicago, Ill. Filed Dec. 11, 1919. Serial No. 344,003. 13 Claims. (Cl. 213—42.)



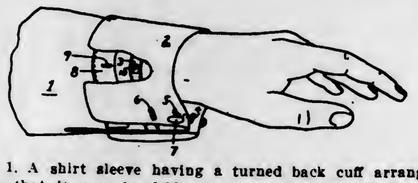
1. The combination with a yoke having upper and lower arms and a hooded forward end, of a drawbar having a shouldered butt adapted to be received within said hooded end, said lower arm being adapted to engage and support said butt, means carried by said yoke for engaging one shoulder of said butt, a movable block being adapted to be tilted upwardly and forwardly about its lower edge into position to engage the other shoulder of said butt after the latter has been inserted in said yoke, and means formed integrally with said yoke for holding said block in said last-named position after it has been tilted.

1,391,204. FUEL-FEEDING SYSTEM. WILLIAM H. MUZZY, Chicago, Ill. Filed Dec. 17, 1920. Serial No. 431,343. 8 Claims. (Cl. 158—36.)



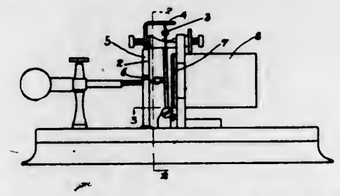
1. In a vacuum fuel feeding tank, the combination with a vacuum receptacle, of an atmospheric tank into which it discharges, a suction connection for the vacuum receptacle, a connection for feeding gasolene to the vacuum receptacle, an atmosphere valve and an operating plunger therefor situated at opposite sides of the suction connection and mounted for movement of the plunger toward and from the atmosphere valve, the suction-caused movement being toward the valve in the direction for opening the latter, and a float in the vacuum receptacle for controlling the plunger.

1,391,205. SHIRT-CUFF. GEORGE NEWMAN, San Francisco, Calif. Filed Oct. 11, 1920. Serial No. 416,190. 3 Claims. (Cl. 2—79.)



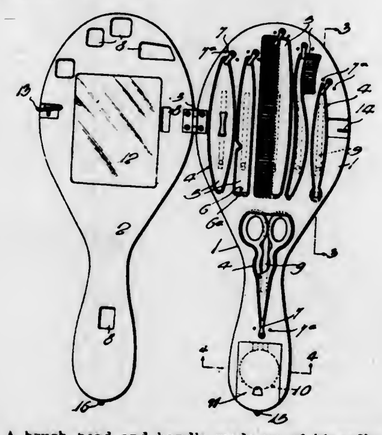
1. A shirt sleeve having a turned back cuff arranged so that it may be folded to present a clean cuff edge when the original edge has become soiled or worn and means carried by the sleeve and cuff for adjusting the length of the sleeve when the cuff is adjusted from normal position so that the length of the sleeve and cuff is at all times the same.

1,391,206. TELEGRAPHIC INDICATOR. SHERMAN G. NYE, Denver, Colo., assignor of one-half to D. B. Simon and one-fourth to I. Mann, Denver, Colo. Filed Oct. 23, 1919. Serial No. 332,682. 5 Claims. (Cl. 177—329.)



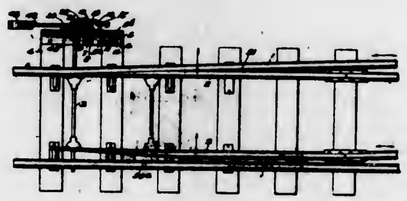
1. In combination with a relay having an armature, of a current detector suspended at one end of the relay, adapted to be attracted against the end of the relay for producing a visible and audible signal of the electric condition of the relay.

1,391,207. HAIR-BRUSH. GARABED OHANIAN, Paterson, N. J., assignor of one-half to Harootun Chekenian, Paterson, N. J. Filed Mar. 17, 1921. Serial No. 452,918. 2 Claims. (Cl. 132—27.)



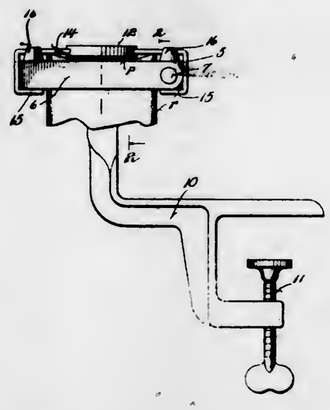
2. A brush head and handle made up of hingedly connected separable sections corresponding in shape, one of said sections being formed in its inner face with a plurality of comparatively shallow recesses, each one being shaped to conform to the outline of a toilet article which is to be placed therein, one of the end walls of the recesses being undercut to provide shoulders, beneath which one end of the articles are to extend, pivoted latches coöperative with the other ends of the articles, and flat springs in the bottoms of the recesses to automatically eject the articles therefrom when the latches are released.

1,391,208. SWITCH-STAND. CHARLES PARTINGTON, Cincinnati, Ohio, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio, a Corporation of Ohio. Filed July 9, 1920. Serial No. 394,999. 6 Claims. (Cl. 246—411.)



1. A device of the class described, an angle base plate, a lever pivoted to the under horizontal side of said plate on a vertical axis, a lever pivoted on the vertical side of said plate on a horizontal axis, and a connecting link between said levers, its opposite ends having a universal coupling connection with the lever to which it connects.

1,391,209. DEVICE FOR REPAIRING INNER TUBES. WALTER J. RALEY, Milwaukee, Wis. Filed Dec. 8, 1919. Serial No. 343,203. 4 Claims. (Cl. 18—18.)

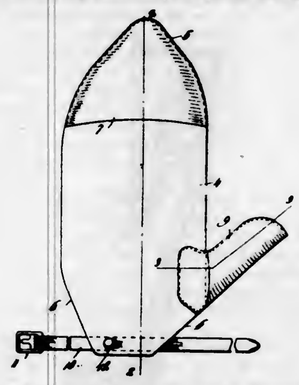


1. An inner tube repair device comprising a base block, means for securing a section of inner tube on one face of the base block, a sleeve secured to and extending from the opposite face of the base block, and a pivot support member detachably engageable in said sleeve.

1,391,210. CONTROL-GLOVE. JOHN G. ROPIAK, Chicago, Ill. Filed Oct. 15, 1920. Serial No. 417,168. 1 Claim. (Cl. 2—104.)

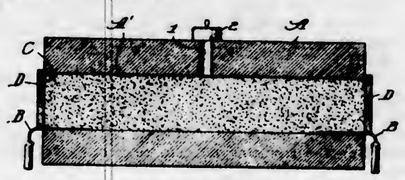
A glove including a flat palm engaging body, a blank engaged across one end of the body with its margin secured

to the margin of the body to provide a single stall for the reception of the tip ends only of all of the fingers, and



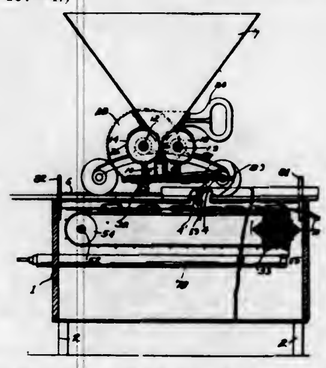
a second blank secured to said body reversely folded upon itself, and the marginal edges thereof secured to provide an inclosed thumb stall.

1,391,211. DRY-CELL MATERIAL AND METHOD OF MANUFACTURE. OTTO E. RUHOFF, Madison, Wis., assignor to French Battery & Carbon Co., Madison, Wis., a Corporation of Wisconsin. Continuation of application Serial No. 166,246, filed May 3, 1917. This application filed Jan. 31, 1920. Serial No. 355,479. 12 Claims. (Cl. 204—29.)



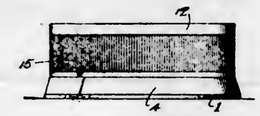
1. A depolarizing mixture for dry cells having as one of its constituents calcined lamp-black obtained by subjecting ordinary commercial lamp-black to prolonged heat treatment at high temperature, said calcined lamp-black being characterized by a relatively low volatile substance content.

1,391,212. DOUGHNUT FORMING AND COOKING MACHINE. WILLIAM F. SCHALLER, San Francisco, Calif. Filed Apr. 20, 1920. Serial No. 375,385. 5 Claims. (Cl. 107—4.)



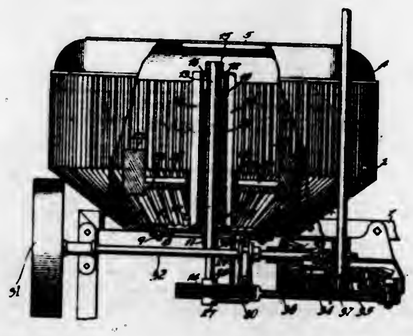
5. A doughnut forming and cooking machine comprising an oil receptacle, a carriage movable along the same, a dough hopper, a die, means to force the dough from the hopper through the die, means to intermittently cut off the dough to form the doughnuts as the carriage is moved along the oil receptacle, means operated by the movement of the hopper to discharge the doughnuts from the oil receptacle, a second oil receptacle, a chute connecting the first oil receptacle and the second oil receptacle and arranged to invert the doughnuts as they fall into the second receptacle.

1,391,213. STERILIZER. IVAN M. SCHNEIBLE, Greenwich, N. Y., assignor to Elsie Kinne Schneible, Greenwich, N. Y. Filed Oct. 29, 1919. Serial No. 334,128. 5 Claims. (Cl. 167—3.)



1. A device of the class described comprising an imperforate disk-like fuel-holding base; a top; means for connecting the base with the top; and a casing carried by the top and upstanding above the top, to form a sterilizing receptacle closed at its lower end by the top, the casing being movable on the top, toward the base, to effect a collapsing of the device.

1,391,214. WASHING-MACHINE. HOWARD F. SNYDER, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a Corporation of Iowa. Original application filed Mar. 11, 1915, Serial No. 13,560. Divided and this application filed Dec. 18, 1916. Serial No. 137,528. 3 Claims. (Cl. 68—15.)

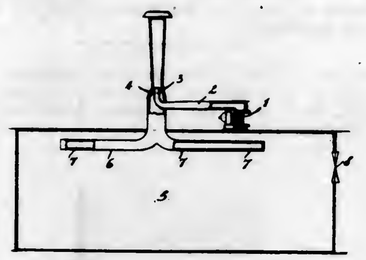


2. In a washing machine, a tub having a bottom provided with an enlarged opening, a removable closure for said opening, a sleeve integral with said closure and extending upwardly into the tub, an oscillatory shaft journaled in said sleeve, a carrier secured to said shaft and having a rotating fit with the bottom of said sleeve, and a dolly slidably mounted on said carrier and having upwardly extending clothes engaging members.

1,391,215. HIGH-CARBON STEEL-IRON ALLOY. JAMES RAMSEY SPEER, Trappe, Md. Filed June 16, 1920. Serial No. 389,319. 3 Claims. (Cl. 75—1.)

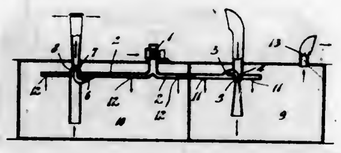
1. An alloy having iron-steel characteristics and containing carbon not less than one per cent., chromium, molybdenum, silicon, sulfur, phosphorus and manganese.

1,391,216. SYSTEM OF VENTILATION. ALEXANDER WILLIAM STEWART, Glasgow, Scotland. Filed Nov. 20, 1917. Serial No. 202,944. 1 Claim. (Cl. 98—27.)



In combination, a compartment having an air inlet, piping in said compartment having air openings, an air eductor constituted by a double truncated cone connected to said piping within said compartment, said eductor projecting from said compartment, a nozzle coaxial with said eductor, said nozzle located adjacent to the plane of truncation of said eductor and directed away from said compartment, and a fan having its intake side exterior to said compartment and its discharge side connected to said nozzle.

1,391,217. SYSTEM OF VENTILATION. ALEXANDER WILLIAM STEWART, Glasgow, Scotland. Filed Nov. 20, 1917. Serial No. 202,945. 1 Claim. (Cl. 98—27.)



In combination, two compartments, an air inductor fitted to one compartment, an air eductor fitted to the other compartment, the inductor and the eductor each affording communication between the relative compartment and the space exterior to said compartment, the inductor and the eductor each formed as a double truncated cone, a nozzle in the inductor, said nozzle directed toward the first named compartment and located approximately in the plane of truncation of the inductor, a nozzle in the eductor, said second named nozzle directed away from the second named compartment and located approximately in the plane of truncation of the eductor, a fan having its intake exterior to said compartments, piping connected to the discharge side of said fan, and branches from said piping to said nozzles.

1,391,218. FASTENER. JAMES D. SWIBES, Detroit, Mich., assignor of one-half to Andrew Harris, Detroit, Mich. Filed Nov. 6, 1920. Serial No. 422,184. 5 Claims. (Cl. 292—95.)

1. In a fastener, the combination with a body, of a hook movable angularly and transversely with respect to said body, means for yieldingly moving said hook transversely in one direction, and a cam member for moving said hook



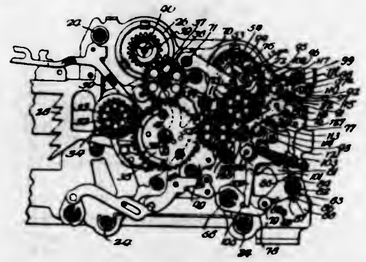
transversely in the opposite direction upon relative angular movement of said body and cam member.

1,391,219. ENZYMIC SUBSTANCE AND PROCESS OF MAKING THE SAME. JOKICHI TAKAMINE, New York, N. Y., and JOKICHI TAKAMINE, Jr., Clifton, N. J. Filed Jan. 23, 1918. Serial No. 213,431. 19 Claims. (Cl. 99—11.)

2. The process which consists in propagating a fungus upon a culture medium, then extracting the soluble content of the culture medium having the fungus growth thereon, then adding an antiseptic to the extract and subjecting the resulting mixture to a comparatively low heat.

16. As a new article of manufacture a stable enzymic solution is clear and transparent and free from decomposing or fermenting bacteria, of slightly nutty taste and musty odor, possessing strongly diastatic and other enzymic properties, gives no coloration when an alcoholic solution of gum guayacol and hydrogen peroxid is added thereto, and contains a large amount of phosphate as a mineral constituent, a comparatively small amount of sugar and a fairly large amount of proteid organic matter.

1,391,220. CALCULATING-MACHINE. JOSEPH A. V. TURCK, Wilmette, Ill., assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Apr. 24, 1920. Serial No. 376,190. 72 Claims. (Cl. 235—82.)



1. In a calculating machine provided with keys; ordinal actuating devices; ordinal registering wheels actuated by

said devices; carrying springs; driving connections between said registering wheels and said actuating devices, including, driving intermeshing gears; and means for detraining said gears to permit the carrying springs to unwind and return said registering wheels to zero; in combination: an additional set of registering wheels; and means adapted, on such detraining of the driving intermeshing gears, to gear the last-mentioned registering wheels at will to said ordinal registering wheels, for turning the additional set of registering wheels, as the ordinal registering wheels are turned to zero; substantially as specified.

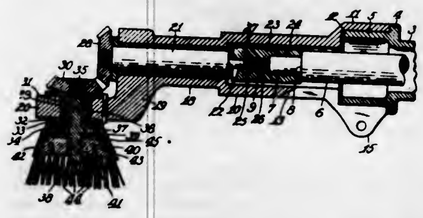
24. In a calculating machine provided with a set of ordinal registering wheels, and means for turning said wheels from varying positions to zero positions, in combination: an additional set of registering wheels, carrying mechanism therefor, and means operable for gearing either the carrying mechanism or said ordinal registering wheels to said additional set of registering wheels; substantially as specified.

33. In a calculating machine, in combination: a set of ordinal accumulator registering wheels rotatable on a fixed axis, including gearing for turning them; means for turning said wheels from varying positions to zero positions; an additional set of registering wheels also rotatable on a fixed axis; means for moving gearing of said first set of registering wheels into position for being entrained with said last named set of registering wheels; and means for entraining said last named set of registering wheels with said first named set of registering wheels, when gearing of the latter has been moved into such entraining position; substantially as specified.

68. In a key-driven calculator; accumulator-mechanism capable of receiving and storing power, a series of actuators for storing power in said accumulator-mechanism, in combination with a second accumulator mechanism adapted to receive the power stored in the first accumulator mechanism to register a total, substantially as specified.

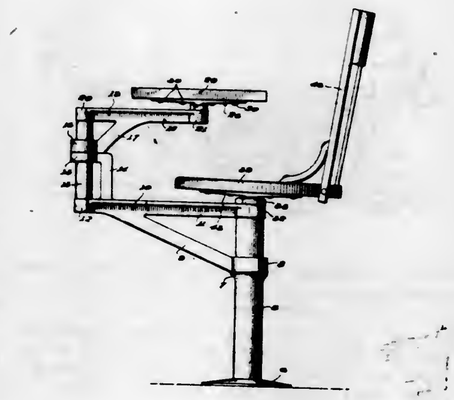
70. In a calculator, a series of register wheels, carrying springs for actuating said wheels in a carrying of the tens, and means whereby the said carrying springs themselves may turn the register wheels in forward direction advancing from divers numerical positions to zero, to effect a zeroizing operation; substantially as specified.

1,391,221. BRUSHING OR POLISHING APPARATUS. FRANK P. TUTTLE, Indianapolis, Ind., assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio, a Corporation of Ohio. Filed Aug. 14, 1918. Serial No. 249,856. 3 Claims. (Cl. 15—37.)



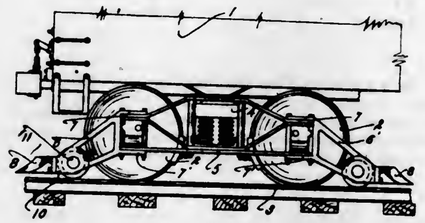
1. In a brushing or polishing apparatus, a brush holder comprising a flat bottom and a flaring side wall thereon, a screw-threaded axle stud extending through said bottom from the rear side thereof, said stud having a collar thereon against said rear side and having also an operating shank extending from the collar, and a core screwed onto said stud and having a groove in its peripheral portion adjacent to said bottom, the front portion of said core having a greater diameter than the grooved portion of the core, in combination with a brush between said side wall and said core and having a portion arranged in said groove.

1,391,222. CHAIR. LEE VAN FLEET, Parkersburg, Iowa. Filed Oct. 6, 1919. Serial No. 328,779. 5 Claims. (Cl. 155—128.)



1. In a device as set forth, the combination of a pedestal, a nut threaded on the upper end of said pedestal and provided with an axial bore, a chair seat, a stem carried by and depending from the center of the under surface of said chair seat, ball races formed in the upper and lower ends of said nut and surrounding said axial bore, bearing balls in said ball races, means carried by said stem for confining said bearing balls in said ball races and to provide anti-friction bearings between the stem and nut.

1,391,223. DERAILING-GUARD. HOMER S. VOTAW, Chopaka, Wash. Filed Jan. 27, 1921. Serial No. 440,352. 2 Claims. (Cl. 105—215.)

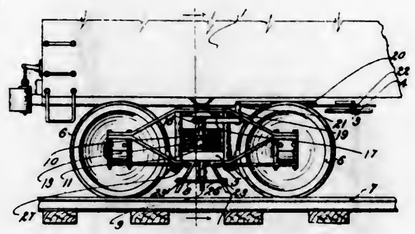


1. The combination with a railway car truck including its side frames, of complementary extensions thereon formed with journal bearings, an axle having journals in said bearings, wide, flanged wheels on said journals and shoulders on the axle co-acting with the extensions for retaining said wheels, and a fender bar having its ends attached at the extremities of said extensions.

1,391,224. RAILWAY-BRAKE. HOMER S. VOTAW, Chopaka, Wash. Filed Jan. 27, 1921. Serial No. 440,353. 2 Claims. (Cl. 246—171.)

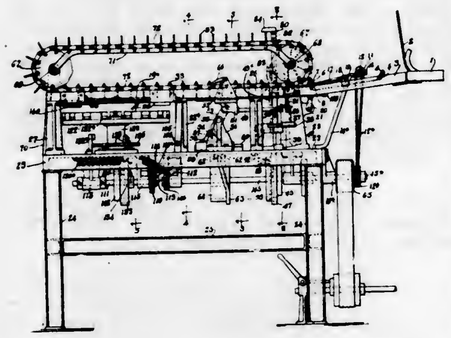
1. The combination with a railway car truck bolster and the air brake equipment including a control valve, of a contact bar adapted to be elevated, and means actu-

ated by the elevation of said bar to control said valve, front and rear guard bars for said contact bar, and
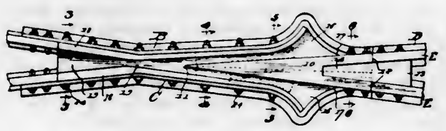


breakable connections between said guard bars, for the purpose described.

1,391,225. MACHINE FOR PACKING MATCHES. NOAH L. WARNER, Ashland, Ohio, assignor to The Reliable Match Company, Ashland, Ohio, a Corporation of Ohio. Filed July 9, 1920. Serial No. 395,141. 33 Claims. (Cl. 226—11.)



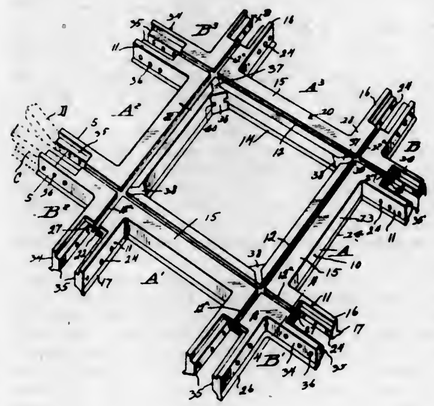
1. In a match-packing machine, the combination, of a divider adapted to enter into and withdraw from a quantity of matches for segregating separate batches of matches, with match-conveying means including devices to receive each batch and maintain its segregation.

1,391,226. REVERSIBLE FROG. RICHARD P. WEAVER, Carlisle, Pa. Filed Nov. 27, 1920. Serial No. 426,738. 10 Claims. (Cl. 246—471.)



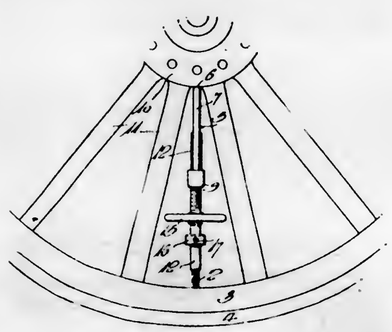
1. A frog formed of an integral middle section and two lateral supporting sections, the middle section being reversible top to bottom and having upon its opposite faces all of the wheel supporting tread portions of the frog, the tread portions of the middle section extending above the upper edges of the lateral supporting sections in all positions of the middle portion.

1,391,227. SECTIONAL RAILWAY-CROSSING. RICHARD P. WEAVER, Carlisle, Pa. Filed Feb. 2, 1921. Serial No. 441,914. 11 Claims. (Cl. 246—463.)



1. A railway crossing formed of a plurality of sections, each section having interlocking engagement with the next adjacent sections, and wedges holding the sections in interlocked engagement.

1,391,228. TIRE-VALVE COMPRESSOR. CHARLES B. WEBSTER, Fall River, Mass. Filed June 17, 1920. Serial No. 389,711. 3 Claims. (Cl. 29—84.)

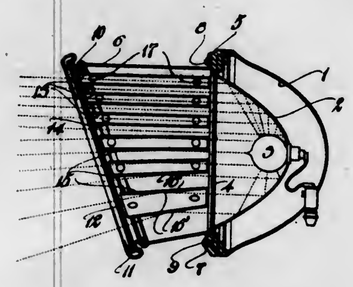


1. A valve stem compressor comprising a hub engaging element, a plunger having threaded connection with the hub engaging element and adapted to engage the end of a valve stem, means for rotating the plunger to move the same outwardly and force a valve stem through a wheel felly and rim, and means for engaging a wheel felly to limit movement of the plunger through the felly and rim.

1,391,229. AUTOMOBILE-HEADLIGHT. GUSTAVE A. WENDT, Spokane, Wash. Filed June 28, 1920. Serial No. 392,361. 1 Claim. (Cl. 240—48.4.)

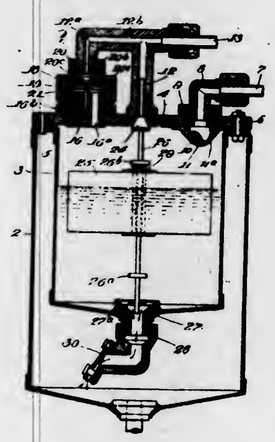
The combination with a headlight and lamp, of a hood attached to the lamp, a group of fixed, horizontally arranged and regularly spaced tubular members forming flat plates within the hood for distant distribution of

light rays, and a group of angularly disposed tubular members forming flat reflecting plates, each of said



plates having an under reflecting surface for direct illumination of the roadway in the immediate vicinity of the lamp.

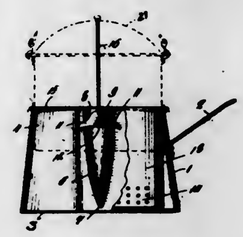
1,391,230. VACUUM FUEL-FEED DEVICE. FREDERIK G. WHITTINGTON, Chicago, Ill., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed Jan. 10, 1921. Serial No. 436,062. 8 Claims. (Cl. 158—36.)



1. In a vacuum fuel feed device having a vacuum chamber provided with liquid inlet and outlet; suction connections, and an air inlet, the air inlet comprising a valve chamber having an air inlet port and a port leading to the vacuum chamber; a valve in said valve chamber which seats at both said ports, whereby it cuts off communication between them; a suction duct leading from said valve chamber at the opposite side of said valve from said first mentioned ports, and means for partially offsetting the suction operative through said duct to reduce the partial vacuum in said valve chamber at said opposite side of the valve therein.

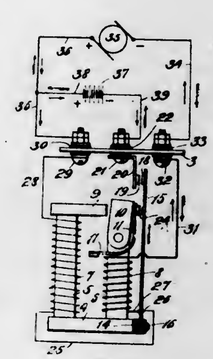
1,391,231. KETTLE. DELLA C. WILSON, Eagle Rock, Calif. Filed Oct. 4, 1920. Serial No. 414,475. 1 Claim. (Cl. 53—1.)

1. In a device of the class described, the combination with an outer upwardly tapering receptacle provided with opposing outwardly dished inverted cone shaped channel ways, a handle fixed to said receptacle, a perforated cylindrical inner receptacle adapted to snugly fit into said outer receptacle, opposing lugs fixed to the outer wall of said inner receptacle whereby said inner receptacle may be held



in a draining position on the upper edge of said outer receptacle, handle ears fixed to said inner receptacle above said lugs, a handle held to said ears, and caps loosely hinged to said outer receptacle for closing said channel ways, all as and for the purposes set forth.

1,391,232. MASTER CUT-OUT FOR STORAGE BATTERIES. JAMES M. WILSON, Newark, N. J., assignor, by mesne assignments, to Herman C. Heidrich and John G. Bender, Newark, N. J. Filed July 23, 1919. Serial No. 312,692. 3 Claims. (Cl. 200—102.)

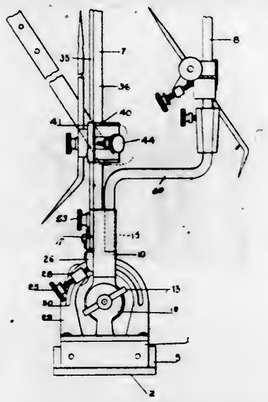


1. In a cut out of the character described, the combination of a fixed pole-piece and a movable pole-piece coöperating to attract or repel each other to cause one pole-piece to move toward or from the other, a resilient member adjacent said movable pole-piece carrying a contact adapted under the resiliency of said member to be in circuit closing relation with a fixed contact and means whereby said movable pole-piece is adapted, when repelled, to deliver a hammer or impact blow to said member to open said contacts.
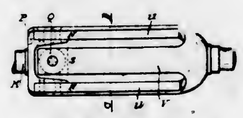
1,391,233. COMBINATION-GAGE. EDWARD WULZ, New York, N. Y. Filed Jan. 22, 1920. Serial No. 353,377. 7 Claims. (Cl. 33—169.)

1. A machinist's marking gage comprising a base, a stub pivotally mounted thereon, means for securing the stub in any desired position with relation to the base, an upright removably connected to the stub, a second upright removably connected to the stub and offset from the first-mentioned upright, a block slidable on the first upright, means

for clamping scribers or measuring instruments to the block, and means for securing scribers or measuring instruments to the second upright in the desired position and for adjusting them with relation thereto.

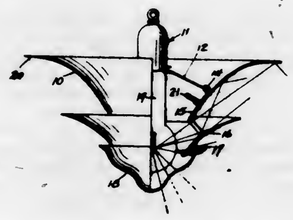


1,391,234. MAGNETO-IGNITION APPARATUS. ALBERT AICHELE, Baden, Switzerland, assignor to A. G. Brown Boveri & Cie., Baden, Switzerland. Filed May 15, 1917 Serial No. 168,734. 3 Claims. (Cl. 171—209.)



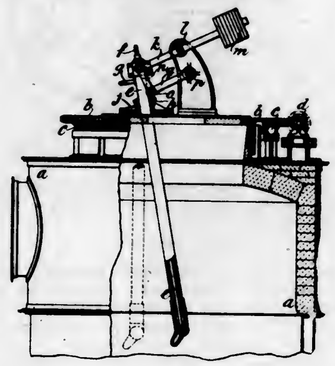
1. A multipolar bell-shaped permanent magnet for magneto ignition apparatus, magnetically conducting cross pieces directly connecting similar poles of the magnet, and a supporting stub shaft for the magnet connected with its poles.

1,391,235. LIGHTING UNIT. ROBERT WINFIELD BAYLEY, Brooklyn, N. Y., assignor to Bayley & Sons, Inc., Brooklyn, N. Y., a Corporation of New York. Filed July 31, 1919. Serial No. 314,553. 7 Claims. (Cl. 240—92.)



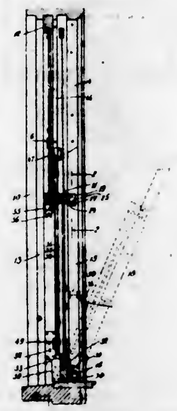
1. A lighting fixture comprising the combination with a source of light of an upper member, both sides of said member being adapted to serve as reflectors, a translucent bowl below the upper member and flexible means to support said bowl and members in spaced relationship so that a portion of the direct light rays will reach the ceiling, a portion will be reflected upward from the surface of the upper member, a portion of the direct rays will escape laterally as a flood light intermediate the lower surface of the upper member and the upper surface of the bowl and thence to the working plane.

1,391,236. APPARATUS FOR AGITATING THE FUEL IN GAS-GENERATORS. GEORGE HERBERT BENTLEY and EDMUND GARDNER APPLEBY, Westminster, London, England. Filed Sept. 1, 1920. Serial No. 407,371. 2 Claims. (Cl. 48—85.2.)



2. In a gas generator, a poker, a balance weight connected to the poker, a bearing slidably mounted on the poker, a sliding socket on the generator adapted to support the bearing, arms pivoted to the poker, a bar carried by the arms, links connecting the arms to the generator and means for rotating the poker.

1,391,237. WINDOW STRUCTURE. JOHN STONE BERRY, Plainfield, N. J. Filed Sept. 15, 1919. Serial No. 323,838. 11 Claims. (Cl. 20—12.)



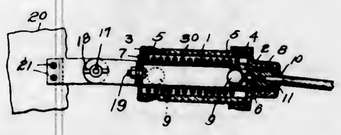
1. A window structure comprising a casing, a sash slidably mounted in the casing, guide strips at the inner side of the sash movably mounted on the casing, means for holding the strips in place on the casing, members mounted on said strips and having extensions in parallelism with the plane of said window, members mounted on said sash adapter to engage with said extension members, thereby affording a connection between said sash and strips and means for locking said sash and strips in their coöperating position.

1,391,238. CONSTRUCTION OF PULLEY AND FRICTION-WHEEL LAGGING. JULIEN A. BRIED, Oakland, Calif., assignor of one-half to Samuel L. Rogers, San Francisco, Calif. Filed July 28, 1919. Serial No. 313,860. 11 Claims. (Cl. 64—45.)



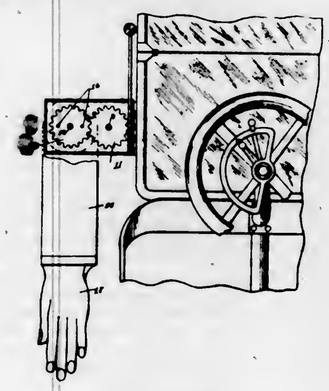
1. On a friction wheel, a strip lagging of friction material adapted to automatically tighten itself upon the wheel through rolling pressure of use.

1,391,239. SPARK-INTENSIFIER. WILLIAM BROAD, Beaver Falls, Pa., assignor of three-fourths to Harry E. McLain, Pittsburgh, Pa. Filed Sept. 30, 1920. Serial No. 413,939. 6 Claims. (Cl. 123—148.)



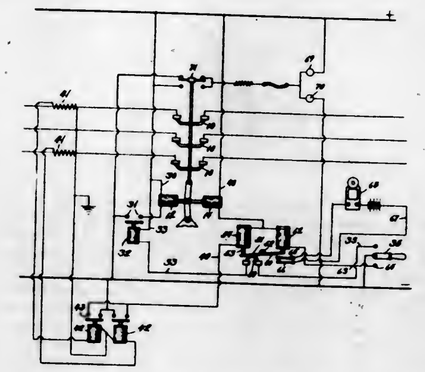
1. The combination with an automobile provided with an internal combustion engine for propelling it, a source of electric current supply, and an ignition circuit between the engine and current supply; of a condenser electrically connected to said circuit, said connection including a gravity switch adapted to disconnect the condenser from the circuit when the automobile ascends a hill.

1,391,240. TRAFFIC-SIGNAL. FRANK L. BUFF, Wichita, Kans. Filed Dec. 12, 1919. Serial No. 344,376. 1 claim. (Cl. 116—52.)



The combination with a main plate having a jaw, of a clamping plate, a housing plate held to the main plate by the clamping plate, a housing plate secured to and spaced from the main plate, meshing gears carried by the main plate and between the housing plates, a bracket extending from the main plate, a controlling lever carried by the bracket, a gear movable with said lever and meshing with one of the gears in the housing, said lever being movable in a plane intersecting the plane of movement of the gears, an index on the bracket, and means movable with the lever and coöperating with the index for designating the degree of rotation of the gears.

1,391,241. LOCKOUT-RELAY. GEORGE A. BURNHAM, Saugus, Mass., assignor to Sears B. Condit, Jr., Brookline, Mass. Filed Dec. 8, 1917. Serial No. 206,148. 5 Claims. (Cl. 175—294.)



4. In combination with an electrically operated switch having an opening coil, an alarm, means controlled by an overload in the circuit controlled by the switch for operating the opening coil to open the switch and also to operate said alarm, a remote control device operable to control said opening coil, and means governed by said remote control-device for operating said opening coil to open the switch independent of the operation of said alarm.

1,391,242. SCREWDRIVER. GEORGE P. BUTLER, New Haven, Conn., assignor to Winchester Repeating Arms Co., New Haven, Conn., a Corporation. Filed Aug. 13, 1920. Serial No. 403,215. 1 Claim. (Cl. 279—104.)



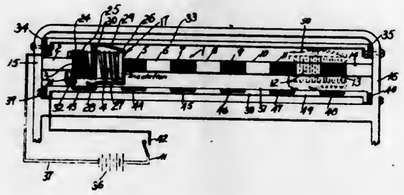
A screwdriver having a wooden handle, formed with a transversely-notched tapering tenon and with a central longitudinal shank-receiving bore, a correspondingly transversely-notched ferrule encircling the said tenon, a bolster applied to the shank and provided with locking-lugs entering the transverse notches in the said tenon, an expansible shank-retaining cup located in the bottom of the said bore, and a shank having at its inner end a tapering head separated from the body of the shank by an annular shoulder, whereby the said handle, bolster and shank are held against rotation and whereby the head of the shank expands the cup and embeds the outer end thereof into the side walls of the said bore in the handle so as to hold the cup against longitudinal displacement in the bore and the head against longitudinal displacement in the cup.

1,391,243. SIGNALING DEVICE. WILLIAM H. CARPENTER, Brooklyn, N. Y. Filed Sept. 27, 1919. Serial No. 326,928. 2 Claims. (Cl. 200—152.)



1. A circuit closer of the type capable of being worn upon the hand and adapted to be respectively tilted to open and closed circuit positions upon moving the hand from the steering wheel of an automobile and extending the hand to a signaling position comprising a wrist engaging strap, a tube having circuit wires operatively connected thereto, said tube having a main lead and a laterally disposed well, the well being in open communication with said main lead, a quantity of mercury arranged in said tube, contacts located within the main lead and connected with said circuit wires, and means for supporting said tube from the strap so that when the hand of the operator is engaged with a steering wheel; the aforesaid lead will be disposed with relation to said well to cause said mercury to be contained in said well and away from said contacts, and whereby a movement of the hand from the steering wheel and to a signaling position, the said tube will be canted and the mercury moved from the well into the said main lead and in circuit closing engagement with said contacts.

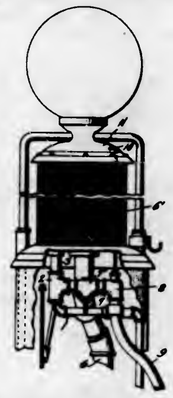
1,391,244. TYPEWRITER ATTACHMENT. GUILLERMO CASTELLANOS, Los Angeles, Calif. Filed July 2, 1919. Serial No. 308,242. 4 Claims. (Cl. 172—126.)



2. An electro-magnet comprising a suitably mounted core comprising alternate sections of magnetic and non-magnetic materials, a solenoid comprising two coils mounted end to end and slidably mounted on said core, contact means to energize said solenoid to cause relative movement between it and the core, said means consisting of a contact bar of magnetic material, a similar contact bar having a contact face constructed of alternate sections of magnetic and non-magnetic material, contact means on the solenoid contacting with said bars to alternately energize the coils.

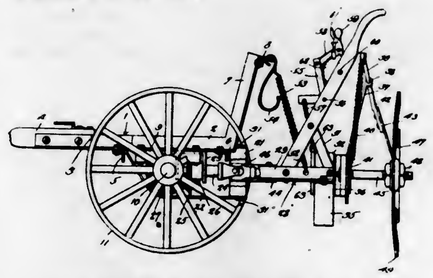
1,391,245. VENT DEVICE. JOHN J. CATRON, Bonham, Tex. Filed July 28, 1919. Serial No. 313,922. 5 Claims. (Cl. 137—78.)

5. In apparatus of the character described, the combination with a receptacle, of a gravity liquid discharge pipe having connection with the receptacle, a valve connected in said pipe, a drain hose connected with the pipe, and a tube connected with said pipe near said valve and extending upwardly beyond the maximum level of the liquid within the said receptacle, said tube having its



bore permanently open to permit of the passage of air therethrough in opposite directions.

1,391,246. COTTON-CHOPPER. BENJAMIN P. COLLIER, Albany, Ala. Filed Oct. 13, 1920. Serial No. 416,633. 5 Claims. (Cl. 97—46.)

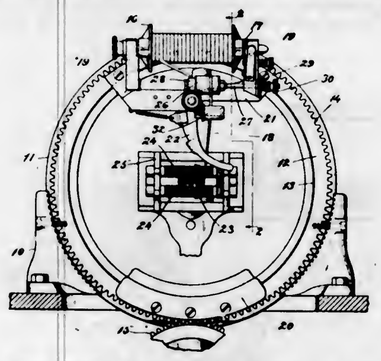


1. In a device of the class described, a main frame; a ground wheel journaled thereon; a loop-shaped bracket; a pivot element uniting the bracket with the main frame for swinging movement on a vertical axis; an auxiliary frame including side members and a bearing carried thereby; a pivot element uniting the side members with the bracket to permit a vertical swinging movement of the auxiliary frame with respect to the bracket; a shaft including parts, one of said parts being journaled on the main frame, and the other of said parts being journaled in the bearing; a universal joint connecting said parts of the shaft and located within the bracket; an operative connection between the first specified one of said parts of the shaft and the ground wheel; and a rotary hoe carried by the other of said parts of the shaft.

1,391,247. THREAD-GUIDE FOR BALL-WINDERS. HAROLD A. DENMIRE, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a Corporation of New York. Filed Nov. 21, 1918. Serial No. 263,507. 4 Claims. (Cl. 242—3.)

1. In a machine for winding elastic rubber thread into a ball, the combination of a holder having means for turning the ball on different axes to give a spherical winding, a rotary ring winder carrying an elongated thread spool, a guide roller on said winder mounted to rotate on an axis transverse to the axis of the spool and so positioned as to receive the thread from said spool

approximately at right angles to the axis of said guide roller, but from various directions, and turn its course



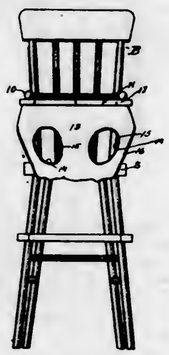
in a substantially fixed direction through less than a complete turn, and means on said winder for guiding the thread from said roller onto the ball.

1,391,248. METHOD OF FORMING GRAIN-SHOCKS. FREDERICK B. ENDERS, De Quincy, La. Filed June 24, 1920. Serial No. 391,372. 1 Claim. (Cl. 130—20.)



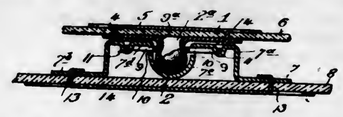
The hereindescribed method of forming a shock which consists of placing a bottom sheaf flat on the ground with its head portion bent upwardly and backwardly upon the sheaf and then placing additional sheaves with their heads superimposed on the head of the bottom sheaf.

1,391,249. ATTACHMENT FOR HIGH CHAIRS FOR BABIES. TRESSIE V. FINNEY, Oildale, Calif. Filed Jan. 24, 1921. Serial No. 439,460. 1 Claim. (Cl. 155—189.)



An attachment, for high chairs embodying the usual pivotal tray, support for the pivotal tray when in horizontal position and a seat, comprising a pliable member having its upper end permanently secured to the sides of the forward edge of the tray and its lower end detachably secured to the under surface of the seat, said pliable member being provided with openings for the reception of the legs of the child occupying the chair, said pliable member when detachably secured to the under surface of the seat preventing pivotal movement of the tray.

1,391,250. SNAP-FASTENER. ADOLPH FRANKEL, New York, N. Y. Filed Nov. 26, 1920. Serial No. 426,389. 5 Claims. (Cl. 24—218.)



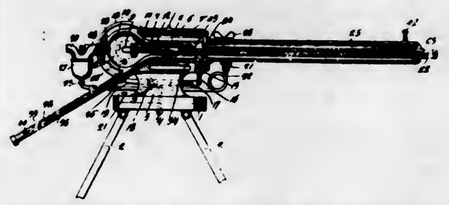
5. A snap fastener comprising complemental members, one of said members comprising an elongated plate having a button-like projection, the other member having a base and a raised portion provided with an outer wall spaced from the base, said wall having a hollow extension projecting toward the plane of the base and provided with a side slot, said wall having an ear, and a spring having one portion secured in said ear and another portion located in said slot to engage said projection, the first named member having slots on opposite sides of said projection, a plate having prongs to enter said slots, the base of the second named member having slots on opposite sides of said projection, and a retainer plate having prongs to enter said slots.

1,391,251. SLIP-JAW WRENCH. MICHAEL I. GINSBURG, Philadelphia, Pa. Filed Apr. 2, 1919. Serial No. 286,919. Renewed Feb. 17, 1921. Serial No. 445,854. 1 Claim. (Cl. 81—165.)



In a wrench of the character described, a head having a stationary jaw and a shank formed therewith, a movable jaw having a tail piece formed therewith adapted to slide in the head, a sectional thread formed upon the tail piece, an adjusting nut meshing with said sectional thread, a bushing fitted to the adjusting nut, a sliding pintle passing through the head and the bushing of the adjusting nut, a cap secured upon one end of the pintle, shoulders formed within the head, a spring confined between said cap and shoulders, a handle pivoted within the shank, and a locking bolt pivoted to the handle in such manner as to pass into and out of engagement with the bushing of the adjusting nut when the handle is swung to and fro.

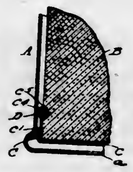
1,391,252. MACHINE-GUN. RAY O. HOOKER, Utica, Kans. Filed Oct. 29, 1919. Serial No. 334,181. 3 Claims. (Cl. 89—7.)



1. A machine gun comprising a base, a cylinder supported on the base and having an opening in one end thereof, a carbureter secured to and communicating with

the opposite end of the cylinder, a piston operable in the cylinder, a barrel secured to the end of the cylinder and communicating with the opening therein, a fuel chamber surrounding the barrel, means for feeding a bullet to the opening in the cylinder, and means for feeding fuel from the fuel chamber to the carbureter.

1,391,253. HOLDER FOR SEMISOLID MATERIALS. CHARLES G. HORNUNG, Buffalo, N. Y., assignor to Larkin Co., Buffalo, N. Y. Filed Jan. 9, 1920. Serial No. 350,267. 4 Claims. (Cl. 206—56.)



1. A container for a stick of material comprising a tubular housing having an open end, and a finger opening in its other end, a dished member adapted to slide in said housing, said dished member comprising a base upon which an end of said stick is adapted to rest and upwardly extending fingers on said base arranged at the sides of said stick, and a resilient member bearing on said stick and engaging said fingers for yieldingly pressing said fingers into gripping engagement with said housing.

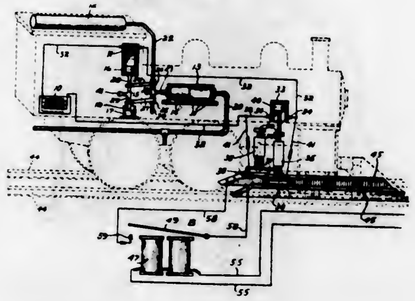
1,391,254. CHAIN FOR VEHICLE-TIRES. HENRY M. HULL, Fairfield, Conn. Filed Oct. 23, 1920. Serial No. 418,927. 7 Claims. (Cl. 152—14.)



1. A chain of the character described, consisting of a plurality of links each having complementary joint members, and a locking strip for positively holding said joint members to each other.

1,391,255. AUTOMATIC TRAIN-STOPPING MECHANISM. NEWTON C. KEELING, Danbury, Conn. Filed Mar. 3, 1920. Serial No. 362,946. 3 Claims. (Cl. 246—181.)

1. Automatic train stopping mechanism comprising a compressed air cylinder having extending therefrom a pipe provided with two valves and an outlet end, a stopping cylinder provided with ports and carrying a loose piston, a pipe connecting the stopping cylinder with the compressed air cylinder pipe at a point between its valves, means consisting of a solenoid in circuit for holding one of the valves open and the other closed, automatic means



for breaking the circuit to change the position of each valve, a brake pipe having connection with the stopping cylinder, and subsequently operable automatic means associated with said circuit breaking means for closing the circuit.

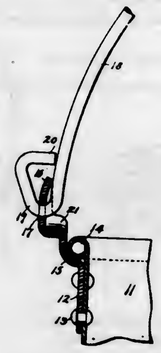
1,391,256. INDUCTION-COIL STRUCTURE. ARTHUR ATWATER KENT, Ardmore, Pa., assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa., a Corporation of Pennsylvania. Continuation of application Serial No. 131,749, filed Nov. 16, 1916. This application filed July 9, 1921. Serial No. 483,423. 26 Claims. (Cl. 175—360.)



26. An ignition induction coil unit comprising the combination of a tubular casing, an induction coil therein, a diaphragm within and extending across said casing at one end of said induction coil, a cap on said casing spaced from said diaphragm to form a chamber, and a resistance disposed in said chamber and connected with the primary winding of said induction coil.

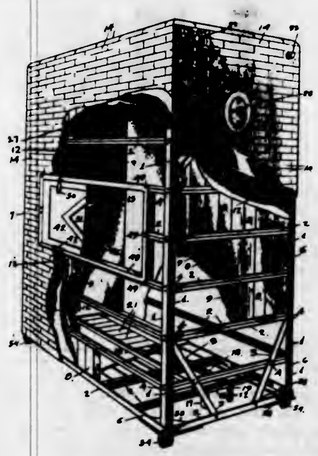
1,391,257. BAIL-EAR AND BAIL. JOSEPH F. LAMB, New Britain, Conn., assignor to Landers, Frary & Clark, New Britain, Conn., a Corporation of Connecticut. Filed June 5, 1919. Serial No. 301,989. 6 Claims. (Cl. 220—91.)

1. As a new article of manufacture, a bail ear having an extended bearing portion for frictional braking engagement with the bail as the bail swings, whereby the bail



may be frictionally held in the various positions to which it may be moved.

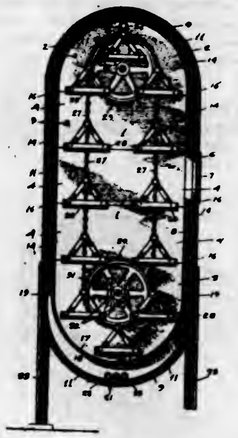
1,391,258. BAKING-OVEN. ERNEST E. LINDSEY, San Francisco, Calif., assignor to Bake-Rite Oven Manufacturing Company, a Corporation of Nevada. Filed Apr. 16, 1919. Serial No. 290,500. 4 Claims. (Cl. 72—16.)



1. In an oven adapted for baking purposes, the combination with a metallic frame for the top, the bottom and the sides of the oven, of horizontal girders spaced for supporting heat-insulating material; metallic reticula secured against the outer and inner surfaces of said heat insulating material in the top and sides; and tile outside of the outer reticulum in the sides; said frame, girders, insulating material, reticula and tile being mortared together to form a homogeneous wall structure.

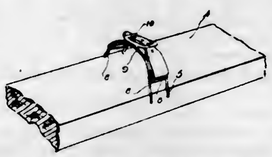
1,391,259. SECTIONAL BAKING-OVEN. ERNEST E. LINDSEY, San Francisco, Calif., assignor to Bake-Rite Oven Manufacturing Company, a Corporation of Nevada. Continuation of application Serial No. 227,597, filed Apr. 9, 1918. This application filed May 12, 1919. Serial No. 296,638. 5 Claims. (Cl. 107—57.)

1. A sectional baking oven comprising arcuate top and bottom sections; intermediate sections arranged to be connected between said top and bottom sections; a combustion chamber formed within the bottom section and ar-



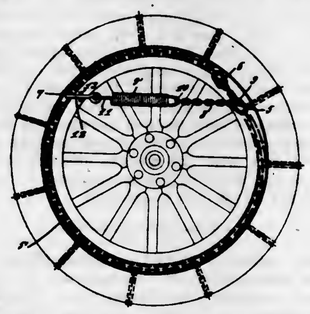
ranged to heat the inner arcuate surface thereat; and means for continuously moving a product to be baked along a path adjacent to said heated arcuate surface.

1,391,260. TOE-STRAP FOR SKEES. MARION E. MCCLELLAN, McClellan, Minn. Filed Sept. 8, 1920. Serial No. 408,982. 1 Claim. (Cl. 46—67.)



A toe-strap for skees including lugs each of which consists of a strand of wire, the opposite ends of which are pointed and penetrated in the side of the skee, the intermediate portion of said strand being extended upwardly and inwardly toward the longitudinal center of the skee, a bar connecting the sides of the strand and a strap extending from one lug to another and adapted to embrace the foot of the user of the skee.

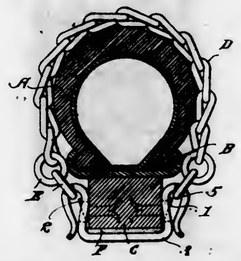
1,391,261. AUTOMOBILE-TIRE CHAIN. DAVID MCCOMB and JOHN MCCOMB, Stoughton, Wis. Filed Apr. 2, 1921. Serial No. 457,985. 2 Claims. (Cl. 152—14.)



1. In combination with links of an anti-skid chain, a securing means including a securing chain having one

end thereof connected to one of the end links of the chain, the intermediate portion of the securing chain passing through the adjacent end link of the chain, from where the same is passed through the first mentioned link, and resilient means for connecting the securing chain to the anti-skid chain.

1,391,262. TRACTION DEVICE. WILLIAM H. MCLAUGHLIN, Hartford, Conn., assignor to Cassius S. Chase, Hartford, Conn. Filed July 13, 1917. Serial No. 180,328. 6 Claims. (Cl. 152—14.)



1. A resilient clip adapted to have positive engagement with a wheel felly and provided with a portion in arranged position extending across the inner peripheral face of the felly and with side portions having means to receive respectively the terminal portions of an anti-skid or traction element, each side portion being provided with a face to engage a lug, the engaged face of which lies substantially in a plane transverse of the wheel, whereby the resilient clip in applied relation will be held firmly against movement radially as a whole toward the hub of the wheel, but may be easily and quickly removed by a lateral pull on one of the side portions.

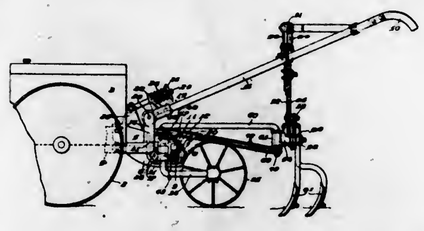
1,391,263. TRACTION DEVICE. WILLIAM H. MCLAUGHLIN, Hartford, Conn., assignor to Cassius S. Chase, Hartford, Conn. Filed July 13, 1917. Serial No. 180,329. 3 Claims. (Cl. 152—14.)



1. A wheel felly, in combination with two resilient plates adjustable with relation to each other to engage the opposite faces of said felly, means for holding said plates in adjusted relation to each other, said felly and said plates being provided with inter-engaging means, some of the engaging faces of which extend in a plane transverse of said felly, and a traction element removably connected to said plates, the sides of said plates being provided with means to receive the respective terminal portions of said traction element, the device as a whole being removable, without movement of the plates relative to each other and without affecting the adjusted relation of the parts, by disengaging one of the sides of said resilient plates by a lateral pull.

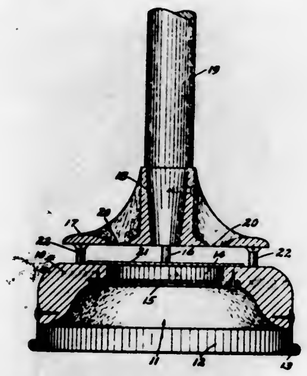
1,391,264. AGRICULTURAL IMPLEMENT. JOSEPH MADER, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed June 9, 1920. Serial No. 387,522. 7 Claims. (Cl. 97—42.)

1. The combination with a wheeled vehicle having a frame, a transversely extending wheel bar adapted for oscillation in a vertical plane with respect thereto and a pair of caster wheels carried by said bar, of means for effecting a draft connection between an agricultural implement and said wheeled vehicle comprising a plurality of draft rods, means for supporting said rods above said



bar and said caster wheels, means for operably connecting said rods and said implement, a transversely extending bar connecting the forward ends of said rods, a transversely extending bar connecting the rear ends of said rods, and a link extending between said bars and pivotally connected thereto.

1,391,265. SUCTION-WASHER. MARTEN MANFRED, Santa Barbara, Calif. Filed Mar. 24, 1921. Serial No. 455,195. 6 Claims. (Cl. 259—143.)



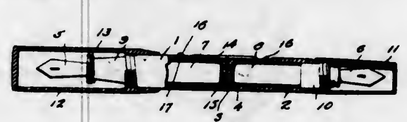
1. A washing device comprising a member provided with an opening, a perforated disk supported by and arranged above said member, and a valve member loosely arranged between said member and said perforated disk, so that upward movement of said device would close said opening.

1,391,266. PICKER-STICK. HENRY W. MORGAN and JAMES O. WHITENER, Greenville, S. C. Filed June 8, 1921. Serial No. 475,978. 5 Claims. (Cl. 139—22.)



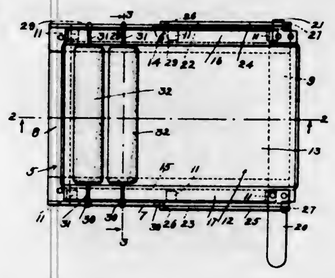
5. The combination of a picker stick and a flexible checkstrap, and a freely rotatable roller appliance mounted in the stick in the plane of the strap and having a length approximately equal to the width of the strap.

1,391,267. FOUNTAIN-PEN. NORMAN H. A. NELSON, Flint, Mich. Filed May 7, 1920. Serial No. 379,560. 5 Claims. (Cl. 120—42.)



2. A pen of the class described comprising a body formed of a pair of sections, a reservoir bulb mounted within each section, said body provided with an elongated slot formed therein, a pivoted lever inclosed between said sections and fitting snugly within said slot, each end of said lever being upturned for producing a compression knob adapted to engage a reservoir within the body of the pen, and each section provided with a dished-out portion located near each end of the lever for facilitating the lifting of the lever and swinging thereof to a desired position.

1,391,268. GRIDDLE. FRANCIS J. T. O'BRIEN, Los Angeles, Calif. Filed Oct. 14, 1919. Serial No. 330,631. 6 Claims. (Cl. 53—5.)



1. A griddle adapted to be placed adjacent a heating unit provided with means for supporting a food product of cylindrical formation, and means independent of said supporting means for rotating said food product.

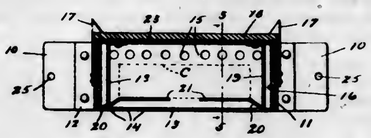
1,391,269. GRIDDLE. FRANCIS J. T. O'BRIEN, Los Angeles, Calif. Filed Feb. 7, 1920. Serial No. 356,910. 7 Claims. (Cl. 53—5.)



1. A griddle construction, comprising a stationary member adapted to rest over a heating unit, a slidable member mounted on said stationary member, means for supporting a cylindrical food product for rotation in said slidable member so that its peripheral surface will contact with said stationary member, and means for reciprocating said slidable member.

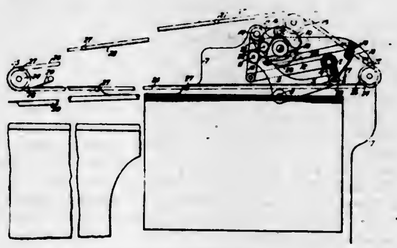
1,391,270. AUTOMOBILE-RADIATOR HEATER. URIAH V. O'DANIEL, Greencastle, Ind. Filed Mar. 26, 1921. Serial No. 455,918. 4 Claims. (Cl. 126—350.)

1. A radiator heater comprising an open-topped casing disposable against the front of a radiator, means for clamping the casing to the radiator, a cover for closing the top of the casing, said casing being provided with draft holes at its lower portion, and being provided in its wall



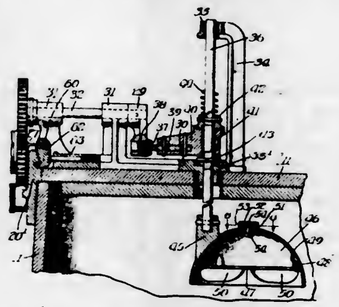
toward the radiator with heat discharge openings, and a holder depending from the cover for supporting a carbon brick.

1,391,271. MEANS FOR FEEDING SHEETS OF PAPER. SYDNEY PAYNE and ELKANAH STOTT, Otley, England, assignors to Payne & Sons (Otley) Limited, and William Dawson & Sons (Otley) Limited, Otley, Yorkshire, England. Filed Apr. 4, 1921. Serial No. 458,458. 7 Claims. (Cl. 271—28.)



1. In means for feeding sheets of paper one at a time from a pile, the combination of a pair of endless chains, means for imparting motion to said chains, a flexible tray carried by said chains and adapted to pass over said pile of sheets, and means for raising the leading edge of the top sheet of the pile whereby the tray is enabled to come between the top sheet and the pile.

1,391,272. GEARING FOR WASHING-MACHINES. ARTHUR H. PETERS, Fort Wayne, Ind. Filed Aug. 2, 1916. Serial No. 112,641. 13 Claims. (Cl. 74—14.)

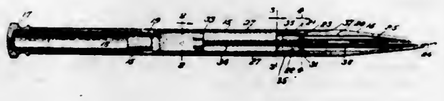


6. In apparatus of the class described, a support, a shaft mounted thereon, a driving gear on said shaft, a hinged member on the said support, a horizontal shaft on said hinged member, and driving connections, including an idler, between said gear and said horizontal shaft, substantially as described.

12. In apparatus of the class described, a support, a vertical reciprocatory shaft rotatably mounted on said

support, means on said support for reciprocating said shaft and comprising two slidably contacting surfaces, and means for increasing the pressure between said surfaces at a given portion of the reciprocatory travel of the shaft sufficiently to cause said surfaces to move together to cause said shaft to periodically rotate.

1,391,273. LEAD-PENCIL. ABRAHAM POLLAK, New York, N. Y., assignor to Samuel Kanner, New York, N. Y. Filed Feb. 2, 1921. Serial No. 441,739. 8 Claims. (Cl. 120—18.)



1. In a pencil, an exterior barrel, a hollow tip-member whose rear end portion is within the forward end of said barrel and provided with an annular groove, a longitudinal sleeve within said barrel and having forwardly projecting arms engaging the sides of the rear end of said tip-member and formed with depressions to lie within said annular groove, an internally threaded nut confined within said tip-member, a clutch-sleeve for leads within said tip member, a longitudinal screw-passing through said nut and entering said clutch-sleeve for projecting the lead therefrom, and means within said sleeve for guiding said screw and holding the same against rotation except therewith, said barrel and sleeve being rotatable for rotating said screw.

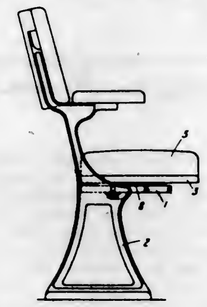
1,391,274. SHAVING-GAGE. GEORGE POSNICK, Springfield, Mass. Filed Dec. 20, 1920. Serial No. 431,901. 5 Claims. (Cl. 132—45.)



4. In a guide device for use in determining the line at which the hair is to be trimmed at the forward and upper edge of the ears, and comprising a band adapted to be passed over the head of the user, one end of the band having a loop for engaging the upper and rear sides of the ear, the other end of the band having a razor receiving gage device pivotally connected thereto, said gage device having a plurality of projections that are arranged at an angle to each other for receiving the rear edge of a razor blade, as described.

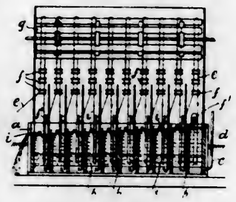
1,391,275. SEAT. WILLIAM JOSEPH RIDER, Horley, England. Filed Jan. 3, 1921. Serial No. 434,702. 3 Claims. (Cl. 155—115.)

1. A seat comprising a relatively fixed plate, a relatively movable plate carrying the seat proper and operatively connected to said relatively fixed plate by a bolt and slot, mechanism intermediate between said relatively fixed and movable plates consisting of wire rope and of a peripherally grooved plate coöperating with said wire rope and having its axis coincident with the axis of said bolt, and a spring for returning said movable plate to



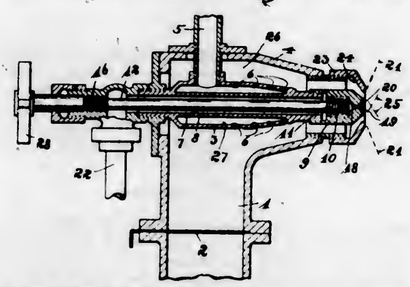
its normal position when displaced therefrom, substantially as described.

1,391,276. MACHINE FOR WASHING, SATURATING, AND SIMILARLY TREATING TEXTILE FABRICS AND YARNS IN ROPE FORM. FREDERIC ROBERTS, Accrington, England, assignor of one-half to The Calico Printer's Association, Limited, Manchester, England. Filed Nov. 1, 1919. Serial No. 335,144. 4 Claims. (Cl. 8—19.)



1. In a machine for treating textiles in rope form, the combination of a liquid receptacle divided into a plurality of compartments, each having a perforated false bottom, each compartment communicating with a succeeding compartment below the false bottom thereof, means for supplying a liquid to the last compartment of the series, means for conducting a rope of textile material into and out of successive compartments, the direction of progress of said rope being counter to the flow of liquid through the receptacle, and adjustable means for guiding said rope in its passage from one compartment to another.

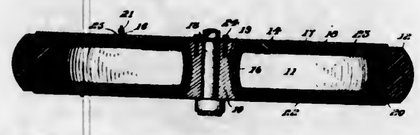
1,391,277. HYDROCARBON AND GAS BURNER. EDWIN E. RUSHTON, Los Angeles, Calif. Filed Sept. 30, 1920. Serial No. 413,811. 6 Claims. (Cl. 158—73.)



1. In a burner of the class described, a controlling valve having gradually deepening threads forming the passage-

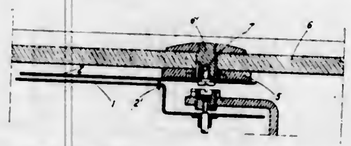
adjusting and controlling means of the valve and having setting means to move the valve in longitudinal direction independent of the adjusting and controlling means.

1,391,278. RESILIENT WHEEL. RUDOLPH SCHEEL, Dixon, Calif. Filed Apr. 29, 1919. Serial No. 293,380. 1 Claim. (Cl. 152—29.)



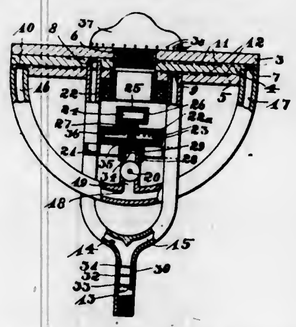
A resilient wheel comprising a hub, a separable tread member spaced from said hub, positioning plates at the ends of said hub and between which said tread member is received, a casing in the space between said hub and tread member having a side slot therein provided with closing means, and a pneumatic tube received within said casing.

1,391,279. INDICATING DEVICE. EDOUARD SEIGNOL, Neuilly, France. Filed Jan. 9, 1920. Serial No. 350,272. 3 Claims. (Cl. 116—129.)



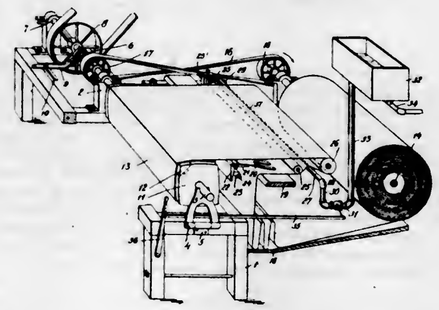
1. An indicating device, comprising an indicator hand, a maximum pointer adapted to be moved with said indicator hand, and a permanent magnet in contact with said maximum pointer for maintaining the pointer in its maximum position, that portion of the maximum pointer in contact with the magnet being disk-shaped and the axis on which the pointer revolves passing through the center of the disk.

1,391,280. GASIFYING DEVICE. NOBLE W. SHELDON, Los Angeles, Calif. Filed Nov. 8, 1920. Serial No. 422,664. 7 Claims. (Cl. 158—53.)



7. In a gasifying device, a top having circulating conduits embodied in the material having also inlet and outlet conduits in communication with the conduits in the top and having a discharge passage through the top, a preheating nozzle disposed below the top in communication with the outlet conduit of the top having means for adjusting the nozzle in the direction toward and relation to the passage in the top, and a main discharge nozzle disposed below the top in communication with the outlet conduit of the top having adjusting means for adjusting the main nozzle in relation to the passage in the top adapted to shut off the preheating nozzle from the outlet communication with the top.

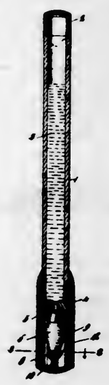
1,391,281. COATING DEVICE. GEORGE C. SNYDER, New York, N. Y. Original application filed Jan. 17, 1919, Serial No. 271,592. Divided and this application filed July 3, 1919. Serial No. 308,582. 8 Claims. (Cl. 91—43.)



1. In apparatus for coating sheet material with liquids, a member over which the material is adapted to be drawn and having an opening along its upper side through which the liquid may flow to the surface of the material, and a valve placed below the level of the opening for controlling the flow of liquid therethrough.

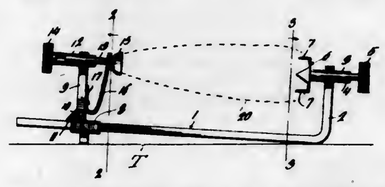
4. Apparatus for coating the underside of sheet material with a continuous film of adhesive, comprising a pipe provided with a continuous channel along the top thereof in communication with the interior of the pipe, the channel being of a length about equal to the width of the sheet material, the top of the pipe being provided with laterally extending passages in communication with said channel.

1,391,282. FOUNTAIN-BRUSH. PHIL A. STEPHENS, St Louis, Mo. Filed Sept. 22, 1920. Serial No. 412,055. 2 Claims. (Cl. 15—49.)



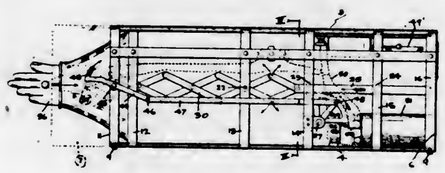
1. A fountain brush for sign-painters, including a liquid containing body equipped with a solid rubber brush member provided with a bore, which communicates with said body, and a cap for the brush end of said body, a portion of which is formed to provide a stopper for the outlet end of the brush.

1,391,283. CORN-HOLDER. ALBERT G. SUDERMAN, River Rouge, Mich. Filed Apr. 27, 1920. Serial No. 376,981. 1 Claim. (Cl. 294—5.)



An ear corn holder comprising a base bar having a fixed arm extending laterally therefrom, and a movable arm slidable thereon, bearings carried by said arms, shafts rotatable and slidable in said bearings, ear penetrating elements carried by the inner end of one shaft and a cap by the inner end of the other, means on the outer end of one shaft for rotating it, and bar gripping means carried by the movable arm to hold said arm in adjusted position, and a spring secured at one end to said movable arm and bearing at its other end against said cap whereby the movable arm is forced into biting engagement with the bar, and the cap clampingly engaged with the ear of corn to be held.

1,391,284. TRAFFIC-SIGNAL. ELI A. SUTZ, Oakland, Calif. Filed Feb. 12, 1920. Serial No. 358,033. 2 Claims. (Cl. 116—40.)



1. A traffic signal comprising a casing having a door pivotally mounted over an end thereof; an independent frame member mounted in said casing; a "lazy tongs" having a portion thereof pivotally connected to said frame and an index signal fixed on an end of said "lazy tongs"; and rack and segment means secured to said frame for moving said "lazy tongs" into the extended position through said door or retracted position within said casing.

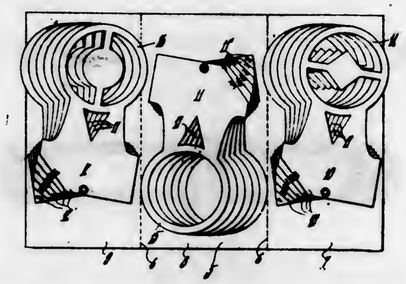
1,391,285. BELT-COUPLING. JULIUS A. TURNER, New Marlboro, Mass. Filed Apr. 13, 1921. Serial No. 460,966. 3 Claims. (Cl. 24—33.)



3. The combination with a belt, of fastening-pieces arranged in spaced alternation in the belt-ends, each of the said fastening-pieces having an eye and a tangentially-arranged clenching-tail, and the tails of the said fastening-pieces being passed diagonally through the square edges of the belt-ends and clenched upon the outer faces of the same, the eyes of all of the fastening-pieces being located in line between the belt-ends and receiving a coupling-pin.

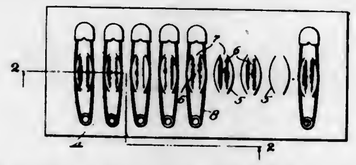
1,391,286. COLOR-CHART. CHARLES E. VAUTRAIN, Holyoke, Mass. Filed Apr. 10, 1920. Serial No. 372,886. 9 Claims. (Cl. 88—14.)

1. A color chart comprising in combination, a support, a plurality of groups of colored elements mounted thereon, each of said groups comprising a plurality of relatively movable elements arranged so that any element of any



group may be brought into an overlapping relation with any of the elements of any other group.

1,391,287. DISPLAY-CARD FOR SAFETY-PINS. JINDŘICH WALDES, Prague, Bohemia. Filed Aug. 1, 1919. Serial No. 314,757. 2 Claims. (Cl. 211—34.)



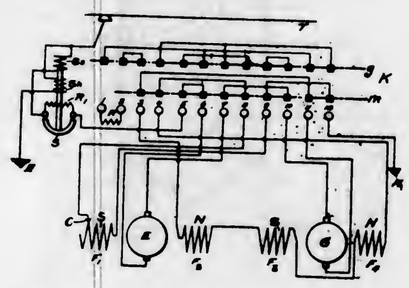
1. A safety pin card having slits therein arranged in pairs converging at opposite ends forming a pin holding device between each pair of slits which is narrow at each end and relatively wide in its middle portion, and which is of greater length than width, thus comprising two lips for engaging the pin.

1,391,288. HAIRPIN-PACKAGE. JINDŘICH WALDES, Prague, Bohemia. Filed Aug. 21, 1919. Serial No. 318,945. 1 Claim. (Cl. 206—66.)



A package for hair pins, comprising an integral sheet divided into back, front and side portions and having a flap extending from one end of the back portion, and ears extending from the ends of the side portions, the flap being turned inward upon the back portion and the front portion being folded over upon the back portion and upon the flap; the sides of the sheet being doubled upon themselves longitudinally and folded transversely over upon the rear portion of the package while the ears are turned over upon the upper portions of the sides.

1,391,289. REGENERATIVE MOTOR-CONTROL SYSTEM. SAMUEL T. WEBSTER, St. Louis, Mo., assignor, by mesne assignments, to General Electric Company, a Corporation of New York. Filed Apr. 7, 1911. Serial No. 619,617. 33 Claims. (Cl. 172—179.)



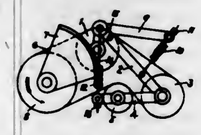
1. The method of braking a series motor which comprises connecting a portion of its field winding in shunt to its armature and another portion in series with the armature to the line in order to return energy to the line when the motor acts as a generator.

9. In a regenerative control system, the combination with a source of current, of a plurality of motors adapted to act as generators and return energy to said source, a resistance in the motor circuit, and means for automatically cutting out said resistance when a regenerated current flows to said source.

11. The method of braking a series motor which comprises connecting a portion of its field winding in shunt to its armature and another portion in series with the armature to the line in order to return energy to the line when the motor acts as a generator, and then disconnecting the motor from the line and short circuiting the motor.

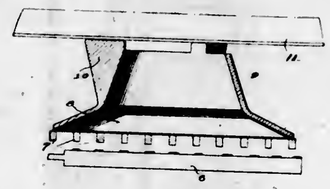
24. In a regenerative control system, the combination with a line circuit, of a plurality of series motors having armatures and field windings and adapted to act as generators, means for connecting said motors with said line circuit to receive current therefrom and act as motors, means for connecting the armatures of said motors to said line circuit, means for connecting the field windings of one of said motors to the armature of the other motor, and means for connecting the field windings of said second motor, adapted to cause said motors to act as braking generators and return an automatically controlled current to said line circuit.

1,391,290. TRANSMISSION MECHANISM. EMILE JOHN WELFFENS, West Withington, Manchester, England. Filed Oct. 3, 1918. Serial No. 256,740. 8 Claims. (Cl. 74—21.)



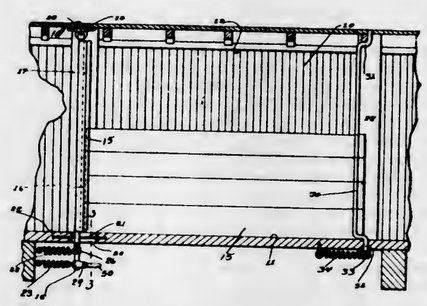
1. In a motion transmitting device comprising a driving member rotatable in a fixed plane, a driven member adapted to reciprocate in a path tangential to said driving member, and flexible means for transmitting motion from said driving member to said driven member, the combination of means for supporting said driven member in driving relation to said driving member and automatically adjustable during the travel of said driven member for neutralizing the variations of distances between the axes of said driving and driven members.

1,391,291. HEAT-DEFLECTOR AND DRAFT-CREATING DEVICE. ALBERT JULIUS ANDERSON, Ashtabula, Ohio. Filed Dec. 31, 1920. Serial No. 434,300. 3 Claims. (Cl. 126—215.)



3. In a device of the character described, a block having a vertical bore therethrough and formed with an upper and a lower portion, the lower portion being flared outwardly and the upper portion being flared inwardly to constrict the bore of the block, and a series of laterally extending lugs carried by the block and projecting slightly beyond the upper end thereof.

1,391,292. GRAIN-BOARD HOLDER. JOSEPH AMY AXT, Amboy, Minn. Filed Oct. 7, 1919. Serial No. 329,068. 2 Claims. (Cl. 20—30.)

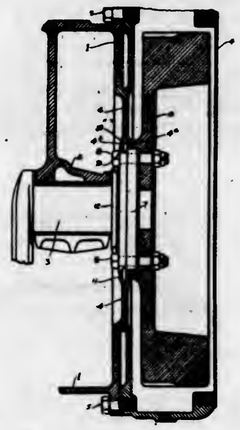


1. A grain door holder comprising a shaft having an offset jaw; means for mounting the shaft at its upper end for axial rotation and for swinging movement in a vertical plane; spring means for rotating the shaft in one direction; means under the control of an operator for rotating the shaft in an opposite direction; and means for imparting swinging movement to the shaft.

1,391,293. OIL-SEALING DEVICE. CHARLES BALOUGH, Canton, Ohio, assignor to The Hercules Motor Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Jan. 27, 1920. Serial No. 354,400. 3 Claims. (Cl. 286—10.)

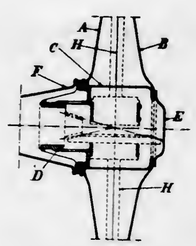
1. In a structure of the character described, a liquid container having a wall provided with a circular opening, a circular revoluble member in said opening, with a space about the same, said wall having an annular chamber about said member, said member being provided with an upwardly and inwardly inclined circular face, ar-

ranged to direct liquid from a portion of the space between said wall and member into the interior of said



container, said face extending with a gradually increasing diameter from a point in line with said chamber to a point in proximity to the interior of said container.

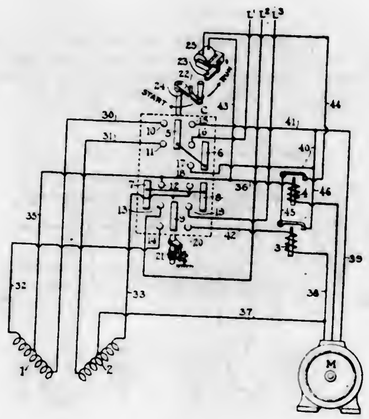
1,391,294. BACK AXLE FOR MOTOR-CARS. MARIUS JEAN BAPTISTE BARBAROU, Paris, France. Filed June 10, 1920. Serial No. 388,043. 3 Claims. (Cl. 74—56.)



1. A back axle for motor cars comprising a back axle body formed of two half shells of stamped sheet metal secured to each other in a vertical plane along their entire length, a removable framing adapted to be inserted into the back axle body and to support the rear axle gearing, trussing means outside said framing adapted to act as a stay in the central portions of said half shells and fastening means for securing said removable framing and said trussing means in position.

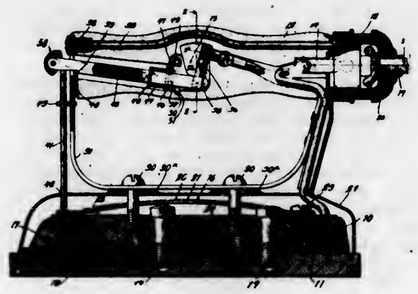
1,391,295. MOTOR-CONTROLLER. THOMAS E. BARNUM, Milwaukee, Wis., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis., a Corporation of Wisconsin. Filed July 23, 1917. Serial No. 182,184. 10 Claims. (Cl. 172—179.)

1. The combination with a polyphase alternating current motor, a plurality of compensator windings and a polyphase supply circuit, of a plurality of contacts and coöperating members insulated to provide a number of poles not exceeding the number of lines of said supply circuit and circuit connections whereby said contacts and coöperating members in one relation provide for connection of said windings to said supply circuit and completion of the circuit of said motor inclusive of said



windings and in another relation for disconnection of said windings from said supply circuit and connection of the motor directly to said supply circuit.

1,391,296. ELECTRIC IRON. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Dec. 8, 1919. Serial No. 343,251. 11 Claims. (Cl. 219—25.)

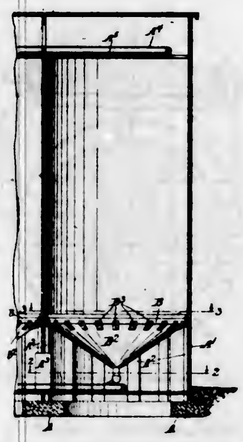


1. An electric iron comprising a body portion provided with an electric heating element and a handle, a switch in said handle arranged to be manually set in open or closed condition, thermostatic means for opening the switch upon rise of temperature in the iron to a predetermined point, and means arranged for manual setting and capable of being set while the iron is in use for raising the temperature at which said switch will be opened by the thermostatic means.

1,391,297. GRAIN-ELEVATOR. THOMAS D. BUDD, Chicago, Ill. Filed Apr. 12, 1920. Serial No. 373,058. 16 Claims. (Cl. 72—6.)

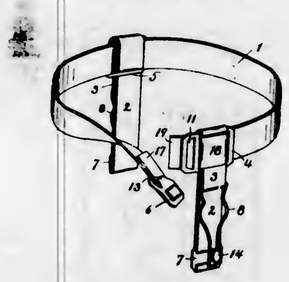
12. A receptacle for finely divided materials, having a vertically disposed wall, a downwardly funneled hopper

bottom, foundations adapted to support said wall and bottom, and means associated with said bottom adapted



to direct the weight supported by said bottom directly downwardly upon said foundations.

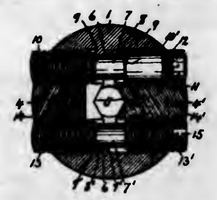
1,391,298. HOSE-SUPPORTER. JAMES H. BURT, Springfield, Mass., assignor, by direct and mesne assignments, to Thrift-Garter Co., Inc., New York, N. Y., a Corporation of New York. Filed July 29, 1920. Serial No. 399,730. 3 Claims. (Cl. 241—6.)



1. As an improved article of manufacture, a hose supporter comprising a band adapted to encircle the leg, slotted fastening members connected with the terminals of said band, and solely dependent on friction to hold them in place, said band having a looped part along one side of and between two of the slots in one of said fastening members, and tabs independent of said band and carried through another slot in and over the top of said last-named fastening member, and between said member and said looped part of the band, and also solely dependent on friction to hold them in place, said tabs being provided with stocking fastening members.

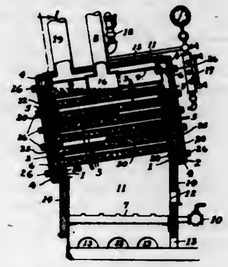
1,391,299. DRILL-CHUCK. HERMAN CASLER, Canastota, N. Y. Filed Sept. 3, 1919. Serial No. 321,394. 2 Claims. (Cl. 279—6.)

1. In a chuck of the character described, the combination of a pair of jaws, a rotary threaded spindle for moving one jaw toward and from the other jaw, means for holding said spindle against endwise movement, an axially movable rotary spindle having threaded engagement with



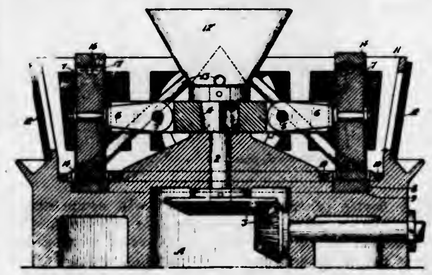
both jaws, and means for limiting the axial movement of the last named spindle.

1,391,300. WATER-TUBE BOILER. WILLIAM COUNCEL, St. Louis, Mo., assignor of one-half to James Roche, St. Louis, Mo. Filed Feb. 21, 1921. Serial No. 446,700. 1 Claim. (Cl. 122—360.)



A water-tube boiler, comprising two cylindrical headers, water-tubes connected to said headers, and each of the latter comprising a circular tube-sheet having a marginal flange, a removable cover-plate therefor having a marginal flange adapted to telescopically engage the said marginal flange of the tube-sheet, a series of anchor-bolts passing through said tube-sheets and through their cover-plates, as well as through the water space of said header, said bolts being arranged near said flanges and being adapted to removably clamp the parts together, and make a tight joint between said tube-sheet and cover-plate, stay-bolts detachably connecting the tube-sheet and cover-plate, and arranged at suitable intervals within the space bounded by the said anchor-bolts, and detachable nuts on the outer ends of said anchor-bolts and stay-bolts, whereby the said cover-plate may be removed for cleaning and repairs.

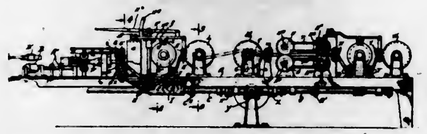
1,391,301. ORE-MILLING MACHINE. JOHN J. CRANMER, Pine Grove, Calif., assignor of one-fourth to Lee Payton, Pine Grove, Calif., and one-fourth to Joseph W. Preston, Jr., San Francisco, Calif. Filed Nov. 26, 1919. Serial No. 340,703. 4 Claims. (Cl. 83—45.)



2. In an ore milling machine, a muller, a plurality of shoes secured on the outer face of the muller, said shoes

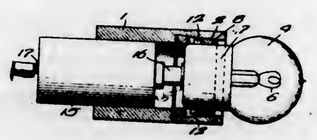
being cam-shaped and presenting a high and a low end, a recess formed in the high end of each shoe for the reception of the rear low end of the shoe disposed in front thereof, and a single securing means for each shoe.

1,391,302. PROCESS FOR MAKING BELTING. OTTO CZARAN, Long Island City, N. Y. Filed Jan. 28, 1919. Serial No. 273,649. 4 Claims. (Cl. 69—21.)



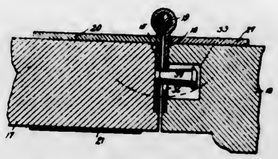
1. The process of making leather belting of desired cross-section consisting in cutting a strip of leather from the outer edge of a sheet of belting material, first forming said strip to the extreme width desired, then shaping it to desired cross-section, drawing it through a fluid bath under tension, thereby stretching the leather and causing the same to absorb a portion of said fluid, thence compressing said strip thereby smoothening and hardening the same, and then passing it between polishing wheels substantially as described.

1,391,303. CONNECTOR. HARRY A. DOUGLAS, Bronson, Mich., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich., a Corporation of Michigan. Filed Aug. 9, 1917. Serial No. 185,251. 8 Claims. (Cl. 173—328.)



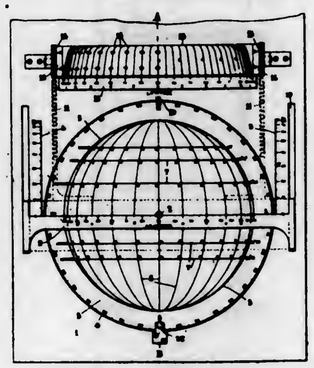
3. A circuit connector including a shell, an expansible and contractible contact carrier receiving ring movable within the shell and having wedging engagement therewith, said ring being positioned normally at substantially the limit of its non-wedging movement, and means energized by the insertion of a contact carrier within said ring operating to move the ring in a wedging direction and thereby contract the same upon the carrier, said means being ineffective to move the ring from normal position during insertion and removal of the contact carrier in and from the ring.

1,391,304. LOCKING HINGE OR CONNECTOR. FRANCIS J. DOWLING, New York, N. Y. Filed June 2, 1920. Serial No. 386,008. 10 Claims. (Cl. 16—106.)



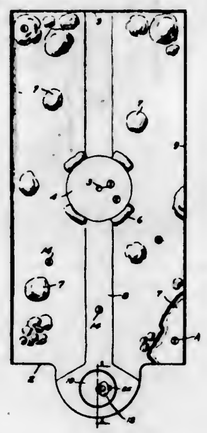
2. A device of the character set forth comprising a pair of plates, pivot means serving to provide for the movement of one of the plates in the arc of a circle with respect to the other plate, rigid tapering means fixed to one of the plates and overlapping the other plate and serving to prevent relative movement between the plates in any other direction than in the direction stated.

1,391,305. NAVIGATIONAL INSTRUMENT. ROBERT ALLON ELDRIDGE, Herne Bay, England. Filed July 12, 1920. Serial No. 395,702. 5 Claims. (Cl. 33—80.)



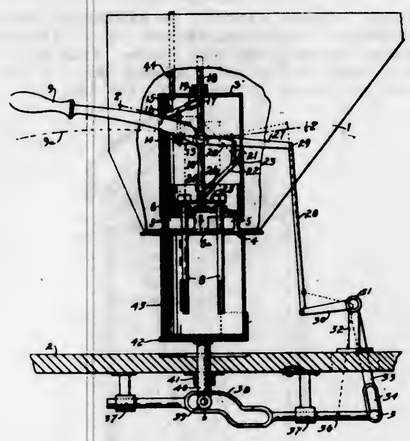
1. A navigational instrument comprising a base, a disk mounted so as to turn on said base, said disk having a plurality of lines representing time angles and the declinations of selected celestial bodies marked thereon and being adapted to be set in various positions according to observations for the purpose of taking readings, a slider slidably connected to the base for parallel movements over the disk, said slider being adapted to be moved over the disk so as to enable readings to be made on the disk, a member having lines representing azimuths marked thereon, and means coöperating with the slider for enabling the azimuth to be read directly from said surface.

1,391,306. GAME. RALPH ELIASER, San Francisco, Calif. Filed June 10, 1920. Serial No. 387,866. 12 Claims. (Cl. 46—61.)



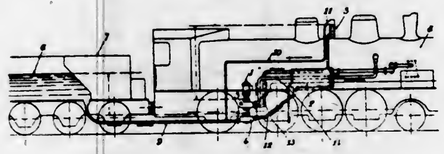
1. A game comprising a board having evaluated areas, a manually controlled and operated figure pivotally connected to the board to turn to different directions over the areas and having a club for driving a ball, and a tee at the axis of rotation of the figure to hold a ball to be struck irrespective of the direction of the stroke of the club.

1,391,307. CANNING-MACHINE. REUBEN B. ERICH, San Jose, Calif. Filed Feb. 1, 1921. Serial No. 441,648. 8 Claims. (Cl. 226—112.)



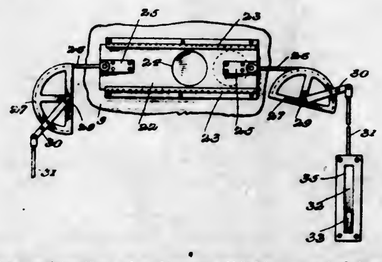
1. A canning machine including a hopper having a discharge opening formed therein, means for supporting a can in operative relation to said opening, a chamber arranged above said opening and provided with a passage to said hopper, a plunger operatively mounted in said chamber to open and close said passage, an element mounted to reciprocate through said plunger and extend into a can positioned therebelow, and means for operating said plunger and element in opposite directions.

1,391,308. MEANS FOR SUPPLYING STEAM-BOILERS WITH FEED-WATER. SEBASTIEN OTTO ALFRED FIEDLER, Paris, France, assignor to L'Auxiliaire Des Chemins De Fer Et De L'Industrie, Paris, France. Filed Mar. 30, 1921. Serial No. 456,816. 3 Claims. (Cl. 103—79.)



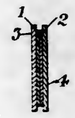
1. An installation for supplying steam boilers with feed water, comprising in combination a feed water tank, a tandem pump having a cold water cylinder and a hot water cylinder, a water-heater, an expansion vessel in communication with the atmosphere at its upper part, said expansion vessel being located on a level higher than both the level of the feed tank and the level of the hot water cylinder of the pump, means connecting the inlet of the cold water cylinder of the pump to the feed tank and the outlet to the water-heater, means connecting the inlet of the hot water cylinder of the pump to the water heater and the outlet to the boiler, means for connecting the lower part of the expansion vessel with the water heater at the highest point which can be reached by the water in the latter and means for establishing a communication between the upper part of the expansion vessel and the feed water tank.

1,391,309. DAMPER FOR VENTILATING SYSTEMS. WILLIAM G. FORCIER, Wollaston, Mass. Original application filed July 31, 1919, Serial No. 314,405. Divided and this application filed Feb. 14, 1920. Serial No. 358,802. 1 Claim. (Cl. 251—51.)



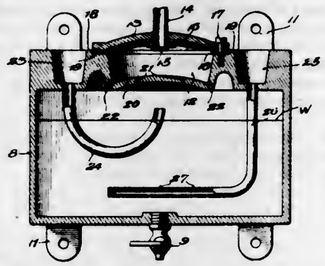
The combination of a damper slidably mounted to cover or uncover a ventilating opening, segments disposed adjacent the ends of said damper and connected therewith, levers mounted below the damper, and connections between said levers and the respective segments.

1,391,310. COLOR PHOTOGRAPHY. WILLIAM FRIESE-GREENE, London, England, assignor to Colour Photography Limited, London, England. Original application filed July 8, 1919, Serial No. 309,455. Divided and this application filed Jan. 31, 1921. Serial No. 441,495. 4 Claims. (Cl. 95—2.)



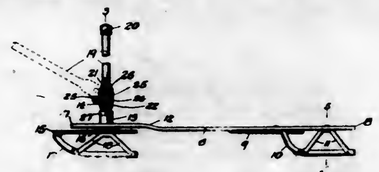
4. A color-photography process comprising simultaneously exposing without a light filter or other color-screen two superimposed sensitized surfaces placed face-to-face of which the one nearer the incident light is an ordinary non-color sensitized surface and the other is a panchromatic sensitized surface.

1,391,311. AERATED WATER-SUPPLY DEVICE. CLARENCE M. FROST, Attleboro, Mass. Filed Feb. 7, 1920. Serial No. 357,001. 5 Claims. (Cl. 183—24.)



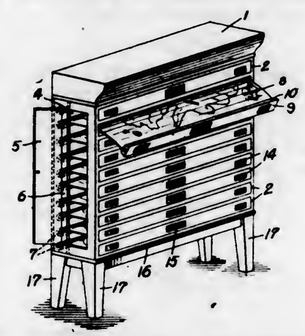
1. A device for supplying aerated water to an internal-combustion engine comprising a water-container having a chamber in its upper portion, a perforated partition between said chamber and the lower portion of the container, a tube arranged to discharge air above the water level upwardly against said partition, another tube arranged to discharge air into water in the container, and an outlet member from said chamber arranged to be connected with an engine.

1,391,312. SLED. EDWARD J. GEBHARDT, Hoboken, N. J. Filed Aug. 25, 1920. Serial No. 405,907. 1 Claim. (Cl. 280—16.)



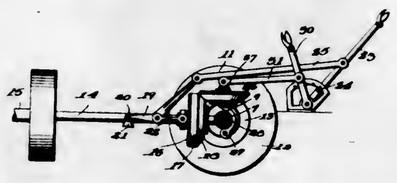
A sled of the class described involving a main body or platform portion having countersunk feet receiving recesses or receptacles.

1,391,313. FILING-CABINET FOR PLANS. VICTOR GEOFFRION, L'Assomption, Quebec, Canada. Filed Dec. 1, 1919. Serial No. 341,730. 1 Claim. (Cl. 40—83.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



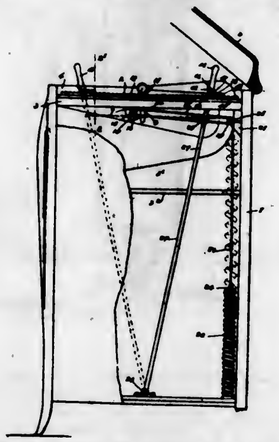
A filing cabinet for maps and the like, having a plurality of parallel slots formed in its front wall, and division bars between said slots and defining the longitudinal edges thereof; a plurality of spring rollers mounted within the cabinet in parallel relation to one another and to said slots and directly behind the latter; a flexible map attached along its rear edge to each roller and normally rolled up thereon by the action of the roller spring, certain of the division bars being removable from the cabinet wall to permit the insertion of the maps and rollers into the interior of the cabinet, and being provided on their opposite end faces with spring-actuated fastening means detachably engaged with the said cabinet wall to hold them in place; and a panel to which each map is secured along its forward edge, adapted to fit conformably in the respective slot, with its outer face flush with the outer face of the front wall of the cabinet.

1,391,314. TRANSMISSION-GEARING. RALPH DOUGLASS GEORGE, Kansas City, Mo. Filed June 18, 1920. Serial No. 389,898. 6 Claims. (Cl. 74—26.)



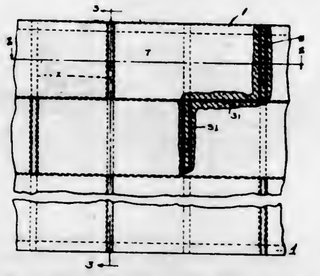
4. In a transmission gearing of the character described, a driven shaft including two sections, a differential connecting said sections and having an internal gear constituting its master gear and means for driving said driven shaft through said differential including a driving pinion engaging the internal gear thereof.

1,391,315. SPRING WINDING OR STRESSING MECHANISM FOR TALKING-MACHINES. WILLIAM EDWARD GORDON, Winnipeg, Manitoba, Canada. Filed Nov. 11, 1919, Serial No. 337,232. Renewed Aug. 15, 1921. Serial No. 492,587. 7 Claims. (Cl. 185—39.)



1. In a talking machine, the combination with the turntable spindle, of a helical spring having one end fast, a pivoted lever, a flexible connection between the lever and the other end of the spring, a wheel over which the connection runs, a shaft rotatably carrying the wheel, means for coupling the wheel to the shaft when rotating in one direction and a driving connection between the shaft and the spindle.

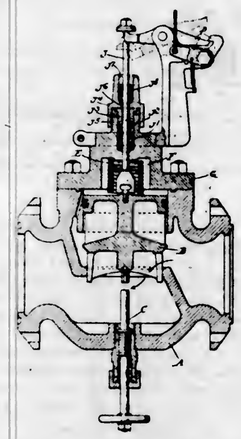
1,391,316. CONSTRUCTION OF WALLS OF PREFORMED UNITS. HUGH R. HADFIELD, Akron, Ohio. Filed Jan. 27, 1920. Serial No. 354,497. 6 Claims. (Cl. 72—16.)



1. A wall construction comprising studs having projections making shoulders with the faces of the studs and tiles adapted to fit against the faces of said studs and the sides of such projections, the sides of such projections and said tiles being provided with alined grooves adapted to receive a grouting to tie said studs and tiles together.

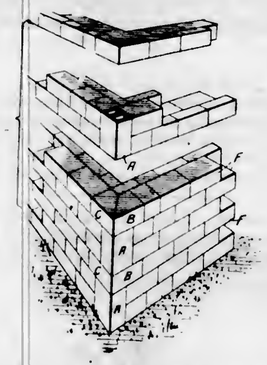
1,391,317. VALVE-STEM PACKING. CHARLES C. HANSEN, Chicago, Ill., assignor to Refrigerating Specialties Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 12, 1918. Serial No. 249,461. 5 Claims. (Cl. 286—17.)

5. The combination with a stem mounted for vertical reciprocation but normally at rest of two lubricant chambers about said stem one above the other, a passage connecting them adapted to allow lubricant to flow from the upper chamber to the lower irrespective of the movement of said stem and lubricant in them in contact with



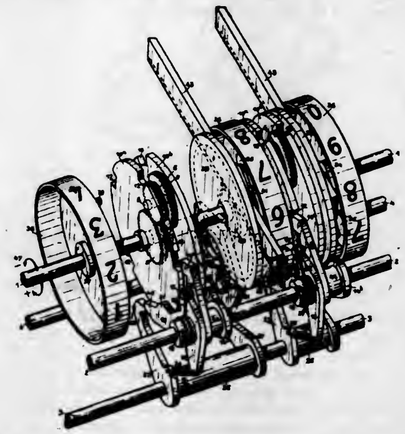
said shaft, the upper chamber provided with an opening for the introduction of lubricant the depth of the lubricant in the upper chamber being substantially as great as the excursion of the stem.

1,391,318. HOLLOW-WALL CONSTRUCTION. FREDERICK HEATH, Tacoma, Wash., assignor to Heath Unit Tile Company, Tacoma, Wash., a Corporation of Washington. Filed Sept. 23, 1916. Serial No. 121,760. 4 Claims. (Cl. 72—41.)



4. A hollow wall construction consisting of a plurality of courses of horizontally laid hollow blocks, the voids of said blocks running in a horizontal direction, the blocks of certain courses having a corner block consisting of one of the hollow blocks laid vertically, other adjacent courses consisting of hollow blocks laid horizontally, the corners of said last named courses comprising a pair of mitered hollow blocks having voids registering with the voids of said horizontally laid blocks, said mitered blocks being placed together along their mitered edges to provide continuous air spaces, the upper and lower edges of the mitered blocks being arranged to engage the ends of the vertically disposed blocks in adjacent courses so as to cover the voids in the vertically disposed blocks.

1,391,319. TENS-CARRYING MECHANISM OF COMPUTING-MACHINES. KARL HOECKEN, Berlin-Friedenau, Germany. Filed Sept. 18, 1917. Serial No. 191,080. 17 Claims. (Cl. 235—139.)



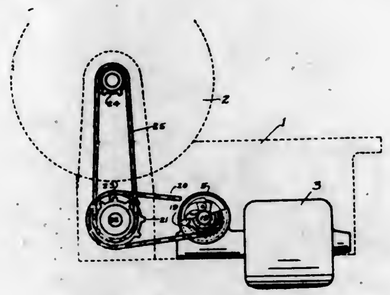
1. In a computing machine, the combination of a rotary actuating member adapted to be rotated during the computing operation; a numeral member; a higher order numeral member; movable means adapted to be actuated by said actuating member and to move said higher order numeral member an increment on each actuation; and means controlled by said first named numeral member and adapted to cause said movable means to be actuated by said actuating means.

3. In a computing machine, the combination of a rotary actuating member adapted to be rotated during the computing operation; a numeral member provided with a carrying means; movable means adapted to be actuated by said actuating means; a positioning member; a higher order numeral member adapted to be moved one step by and on each movement of actuation of said actuating means; means whereby said higher order member may be operated by either the movable means or the positioning member the one independently of the other; means controlled by said carrying means adapted to establish an operative connection between said actuating means and said movable means; and means adapted to automatically release said connection.

5. In a computing machine, the combination of a rotary actuating member adapted to be rotated during the computing operation; a numeral member provided with a carrying means; a higher order numeral member; movable means adapted to rotate said higher order member an increment on each actuation by said actuating member; a positioning member; means whereby said higher order member may be operated by either the movable means or the positioning member the one independently of the other; and means controlled by said carrying means adapted to establish an operative connection between said actuating means and said movable means.

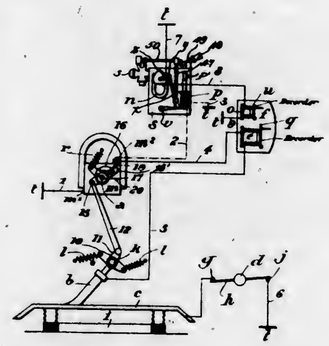
7. In a computing machine, the combination of a rotary member; an actuating member; a normally moving operating means; a differential operatively interposed between said means and members; a locking means adapted to be moved to lock either member and release the other, and normally locking the actuating member; a numeral member provided with a carrying means to cause said locking means to release the actuating member and lock the rotary member; an actuating device on said actuating member; a movable means adapted to be rotated by said device; a positioning member; a higher order numeral member; and a differential operatively interposed between said higher order member, said positioning member and said movable means.

1,391,320. OPERATING MECHANISM FOR SLICING-MACHINES. ERNEST K. HOOD, Indianapolis, Ind., and WALLACE B. WOLFF, Chicago, Ill., assignors to The American Slicing Machine Co., Chicago, Ill., a Corporation of New York. Filed Dec. 23, 1918. Serial No. 267,996. 3 Claims. (Cl. 74—7.)



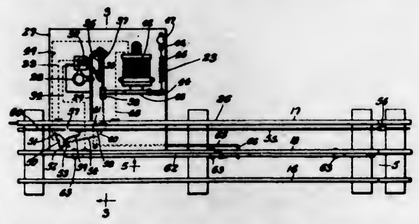
1. A transmission mechanism comprising a motor, a reduction gear unit, unitary therewith; a power-transmitting connection connected to said gear unit, including interchangeable gear elements and an overrunning clutch; and a hand-operated device geared to the transmitting connection at a point in the connection more remote from the motor than the clutch.

1,391,321. INDICATING, RECORDING, AND CONTROLLING DEVICE ACTUATED BY AN ELECTRIC CURRENT. JOSEPH ERNEST COLAS and EDMOND LOUIS MARIE RAGONOT, Paris, France. Filed July 17, 1913. Serial No. 779,604. 3 Claims. (Cl. 246—69.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



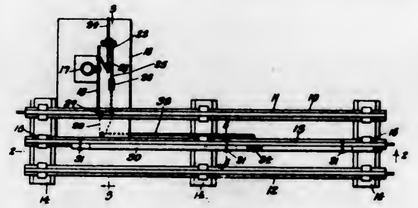
2. An electrical signaling apparatus comprising in combination means carried on a locomotive for generating a current at the time the locomotive passes a predetermined section of track, connections between said means and ground including a switch which is closed when the signal is at clear, a recording apparatus controlled by said current generating means for recording the passage of a signal not at clear, a recording apparatus for recording the passage of a signal at clear, and parallel circuits for said apparatuses leading from said current generating means, the circuit for said second mentioned apparatus including said switch, the circuits of said recording apparatuses being so proportioned that when the circuit of the second apparatus is closed sufficient current is available for the first recording apparatus to operate it.

1,391,322. BLOCK SYSTEM FOR ELECTRIC-RAILWAY TRAINS. AINSLEY L. JONES, 2d, Mariners Harbor, N. Y. Filed Jan. 22, 1921. Serial No. 439,067. 15 Claims. (Cl. 104—153.)



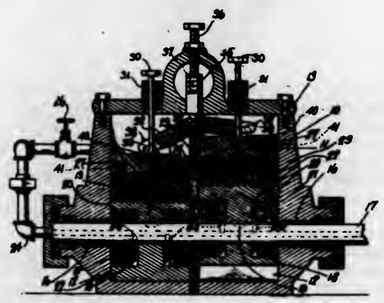
10. A block system for miniature electric railways comprising a plurality of electric signal post constructions located at predetermined points along the track of a railway and provided with electric elements, the electric elements of said signal post constructions being in electrical connection with the current carrying rails of the railway track, and mechanical means in operative connection with said signal post constructions for automatically operating the signal elements thereof to move the same into danger positions in the progress of one or more electric locomotives or cars over the track of said railway.

1,391,323. STOP DEVICE FOR ELECTRIC-RAILWAY TRAINS. AINSLEY L. JONES, 2d, Mariners Harbor, N. Y. Filed Jan. 22, 1921. Serial No. 439,068. 10 Claims. (Cl. 246—187.)



1. A stop device for electric railways of the class described comprising a rail composed of insulating material mounted longitudinally of and in connection with one of the current carrying rails of a railway, and means for moving said insulating rail into position to break the circuit to a locomotive or car as it passes thereover.

1,391,324. PUMP. HENRY M. KEITH, West Frankfort, Ill., assignor to Keith Pump Company, West Frankfort, Ill. Filed Sept. 7, 1920. Serial No. 408,457. 5 Claims. (Cl. 103—44.)



1. A rotary pump including a rotor chamber having an inlet and an outlet port, a shaft rotatable within the chamber, a rotor fixed upon the shaft, a packing interposed between said ports and engaging the periphery of said rotor, friction elements connecting the walls of said chamber, and means whereby said elements are controlled by the high pressure of the fluid passing through the pump.

1,391,325. GREASE-GUN. FRANK B. KILLIAN, New Dorp, N. Y. Filed Jan. 22, 1918. Serial No. 213,212. 11 Claims. (Cl. 221—79.)



1. A combined shipping package and grease gun comprising a shell, a plunger of sufficient rigidity to smooth out such indentations as may form in the shell and movably fitted therein, and means supported at opposite ends of the shell and operative to maintain the plunger centered transversely in a fixed plane transverse to the axis of the shell with sufficient rigidity to cause the plunger to smooth out such indentations and to move the plunger longitudinally therein.

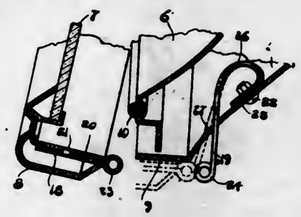
1,391,326. TOILET-PAPER HOLDER. JOHN FRANCIS KILLIAN, Stockton, Calif. Filed Jan. 28, 1921. Serial No. 440,561. 3 Claims. (Cl. 211—31.)



1. A toilet paper holder including a spindle adapted to receive a paper-roll thereon, and a tapered plate extending longitudinally of the spindle and fixed directly thereon, whereby the roll-core may be wedged thereon to hold the roll against rotation relative to the spindle.

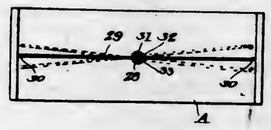
1,391,327. FASTENING FOR AUTOMOBILE-LAMP CLOSURES. EUGENE A. KUEN, Cincinnati, Ohio, assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Filed July 23, 1920. Serial No. 398,476. 5 Claims. (Cl. 16—128.)

3. In combination with a lamp body, and a closure for the body, a fastening comprising a rigid member secured to one of said parts, a spring member secured to another of said parts away from the rigid member, and means



adapted detachably to connect the members when the spring member is flexed to bring it under tension, whereby the closure will be held yieldingly toward the body.

1,391,328. TRAIN-STOPPING DEVICE. WILLIAM LEACH, Moose Jaw, Saskatchewan, Canada. Filed Mar. 27, 1920. Serial No. 369,292. 3 Claims. (Cl. 137—139.)



1. In a train stopping device, the combination of a car, a train line pipe beneath the car, a valve provided with two outlet ports, a lever adapted to operate the valve and cause it to register with either of the ports, said lever being operable by a stationary signal man, located at the side of the car when the car is moving in either direction.

1,391,329. THERMOSTATIC DEVICE. EDMUND B. LENNIG, San Francisco, Calif., assignor to Thermic Engineering Co., San Francisco, Calif., a Corporation of California. Filed June 26, 1917. Serial No. 177,084. 4 Claims. (Cl. 200—138.)

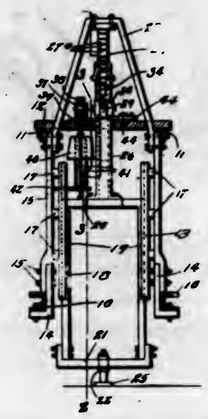


1. In a thermostat device, a pivoted switch having a laterally extending arm, an adjustable screw projecting through said arm, a counterbalance carried by said arm, below the latter and at one side of its center of gravity of said arm to effect the automatic depression of said arm, a contact post with which said arm normally contacts, and a thermostat, located above said counterbalance, extending in substantial parallelism with said arm and coöperating with the lower end of said screw to move said arm out of contact with said contact post.

1,391,330. LIFTING AND SWINGING SUPPORT FOR RAILWAY MOTOR-CARS. JOSEPH E. LOEFFLER, St. Louis, Mo. Filed Mar. 21, 1921. Serial No. 453,938. 6 Claims. (Cl. 254—86.)

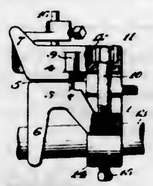
1. The combination of a motor car, vertically disposed guideways fixed thereto, a slidable member mounted in said guideways and adapted to be moved in position on the ground, a housing carried by said slidable member, a ver-

tically disposed member secured to said motor car and having its lower end slidably mounted in said housing, and a



lever pivotally mounted on said housing and adapted to operatively engage said vertically disposed member.

1,391,331. SLUB-CATCHER. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Sept. 16, 1920. Serial No. 410,637. 6 Claims. (Cl. 28—20.)



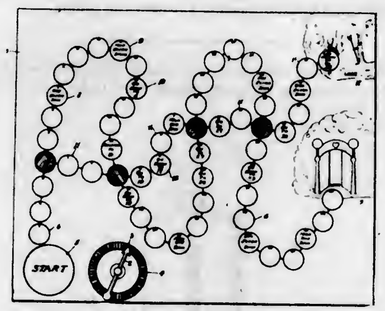
5. A slub catcher comprising an integral resilient yoke, the branches of which form between them a slit for the passage of the yarn, said slit having parallel walls, and a screw spanning the branches for springing one of the branches out of its normal position to vary the width of the slit and at the same time to maintain the parallelism of its walls.

1,391,332. PROCESS OF OXIDIZING GASES. RALPH H. MCKEE, New York, N. Y. Filed Apr. 5, 1919, Serial No. 287,740. Renewed Feb. 10, 1921. Serial No. 444,001. 6 Claims. (Cl. 23—1.)

1. The process of oxidizing gases which comprises passing said gases together with a sufficient amount of oxygen in contact with a catalyst comprising hydrated silica gel, substantially as described.

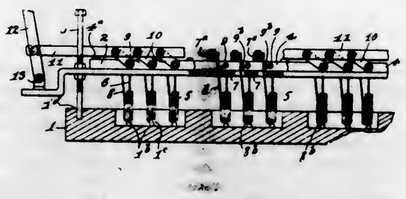
1,391,333. GAME. WILLIAM F. MCMANUS, Oklahoma, Okla. Filed Oct. 8, 1920. Serial No. 415,540. 1 Claim. (Cl. 46—63.)

A game board over which tokens are to be moved at chance-determined intervals and having displayed thereon a connected series of stations defining a main path over which the tokens are to be moved, and a second connected



series of stations defining a shorter path intersecting and extending across the path defined by the first-mentioned stations.

1,391,334. MOLD-INSERT-FEEDING MECHANISM. LOUIS C. MARTIN, Willoughby, Ohio. Filed Dec. 29, 1920. Serial No. 433,767. 12 Claims. (Cl. 18—1.)



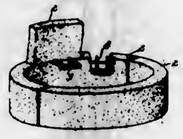
1. In a mold insert feeding device, an insert feeding and guiding member vertically supported above the mold cavity and carrying a plurality of superposed inserts, a movable element at one side of said member provided with an insert supporting, depositing and separating portion, and means for throwing said depositing and separating portion into and out of engagement with said inserts.

1,391,335. PISTON-RING. WALTER DAVID MATHEWS, Marlette, Mich. Filed Dec. 1, 1919. Serial No. 341,642. 1 Claim. (Cl. 74—109.)



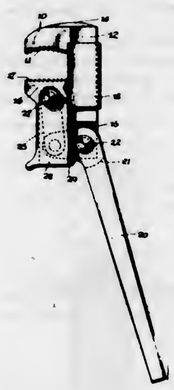
A piston ring comprising two similar sections each having a diagonal gap, the gaps being diametrically opposite in the assembled ring, each section including a circular portion of uniform width and thickness and further including an outwardly extending flange having its greatest thickness opposite the gap of the other section and tapering gradually toward both ends, the ends terminating considerably short of the gap, and an inwardly extending radial pin on each section, the other section being recessed for the accommodation of the pin.

1,391,336. REINFORCED-CONCRETE MANHOLE AND SEWER-INLET CASING. AUGUST H. MEINERS, St. Louis, Mo., assignor of one-half to Ernst Paffrath, St. Louis, Mo. Filed Jan. 22, 1921. Serial No. 439,236. 1 Claim. (Cl. 72—100.)



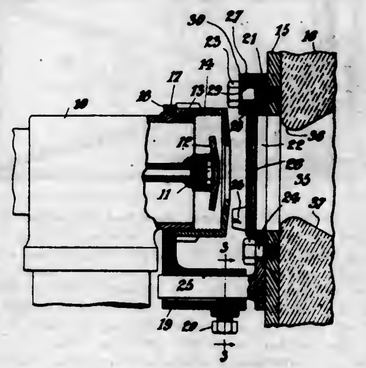
A knock-down reinforced concrete manhole and sewer-inlet casing, composed of a series of ready-made layers of semicircular sections having their end-joints overlapped by adjacent sections, and the ends of two sections of each layer being abutted; there being opposite registering recesses in certain sections at the joint between them; and metallic L-shaped steps placed partly in the recesses of the under sections, and partly in the recesses of the section immediately above it, the outer arm of said steps being in a vertical position, and in contact with the exterior wall of the adjacent section, to laterally hold said sections in place, and prevent inward movement of said steps.

1,391,337. WRENCH. ARTHUR WELLS MINNEY, Stockton, Calif. Filed Mar. 3, 1921. Serial No. 449,296. 2 Claims. (Cl. 81—126.)



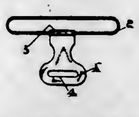
1. A wrench of the character described comprising an outer jaw having a shank provided with inclined side faces comprising shoulders on the line of juncture of the shank with the jaw, an inner jaw having a guide embracing said shank and provided with angular flanges slidably engaged with the shoulders of the shank, said shank having a reduced extension at its outer end, a handle having a bifurcated end embracing said reduced extension, a pivot pin extending through said bifurcated end and said reduced extension, said bifurcated end being provided with a pair of lateral arms, a link having one end received between said lateral arms, pivot pins extending through said link and said lateral arms and a pivot pin connecting the other end of said link to said inner jaw, said inner jaw having a depending guard incasing said link and said lateral arm and preventing lateral displacement of the pivot pin connecting the links and the lateral arms.

1,391,338. BURNER-SUPPORT. ALBERT W. MORSE, Forest Hills, N. Y., assignor to The Anthony Company, Long Island City, N. Y., a Corporation of New York. Filed Mar. 11, 1919. Serial No. 282,048. 6 Claims. (Cl. 158—1.)



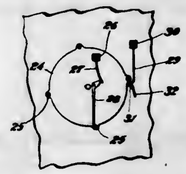
1. The combination of a burner, a furnace, a burner support, an adjustable connection between the burner and the furnace comprising a pin and socket slidably contacting, and a shutter pivoted on said support.

1,391,339. NECKTIE-SUPPORT. WALTER R. MORSON and EDGAR BEAUMONT JARVIS, Toronto, Ontario, Canada. Filed Apr. 19, 1917. Serial No. 163,274. 2 Claims. (Cl. 24—56.)



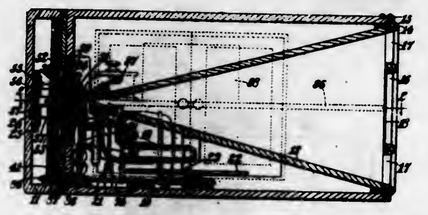
1. A tie support comprising an attaching member having an oblong transverse slot formed therein and a transverse loop member having a tie holder secured to the attaching member, the support being adapted to fit over a collar button provided with a flattened shank of approximately the same size and form in cross section as the slot aforesaid, and with support retaining means adapted to pass through the slot.

1,391,340. TIMEPIECE-MOVEMENT. THOMAS F. I. O'BRIEN, Brooklyn, N. Y. Filed Aug. 20, 1920. Serial No. 404,754. 2 Claims. (Cl. 58—116.)



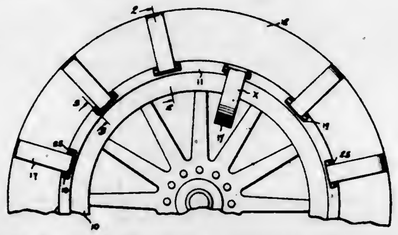
1. In a time piece movement, the combination with motive means, of a rotary member constantly actuated in one direction, said member having protuberances thereon, stop means for engaging said protuberances and interrupting rotation of said member, and releasing means for said stop means adapted to be deflected by engagement with said protuberances, said releasing means being mounted eccentrically with respect to the rotary member so as to disengage the protuberances at a predetermined position so as to return to normal position and release said stop means from the next protuberance.

1,391,341. MOTION-PICTURE APPARATUS. NOEL PEMBERTON-BILLING, Hertford, England. Filed Jan. 12, 1921. Serial No. 436,743. 4 Claims. (Cl. 88—18.8.)



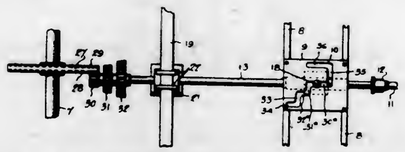
1. A device of the class described, including in combination, a picture supporting member having a continuous band of pictures on one side thereof and mounted for both rotary and lateral movement, said support having ratchet teeth on the opposite side thereof and lying in a continuous band corresponding in shape to the band of pictures, a toothed driving member in mesh with the ratchet teeth for effecting rotation of said support, and stationary means separate from said driving member in continual engagement with the support for effecting lateral movement thereof as it rotates.

1,391,342. ANTISKID DEVICE. OSWALD S. PULLIAM, New York, N. Y. Filed July 12, 1919. Serial No. 310,324. 2 Claims. (Cl. 152—14.)



1. A device of the character described comprising in combination, a wheel, a rim, a plurality of anti-skid devices carried by said rim and adapted for movement into operative position in engagement with the tread of said tire, and out of operative position out of engagement with the tread of the tire, and a sliding bolt for locking said anti-skid elements in both their operative and inoperative positions.

1,391,343. TRANSMISSION. OSWALD S. PULLIAM, New York, N. Y. Filed July 28, 1919. Serial No. 313,766. 2 Claims. (Cl. 74—58.)



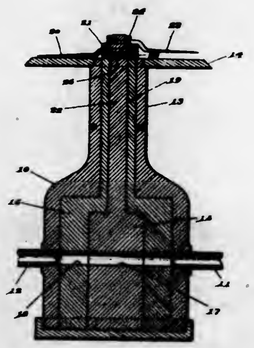
1. A driving member, a driven member, a shaft connecting the driving member with the driven member, a plurality of gears carried by the shaft and adapted to individually engage the driven member, means for moving the shaft longitudinally to cause individual engagement of said gears, and means for moving the shaft transversely to permit of one of the gears carried by said shaft engaging the driven member upon its opposite side to reverse the direction of travel thereof.

1,391,344. PILE-DRIVING APPARATUS. ALEXANDER GEORGIEVITCH ROTINOFF, London, England. Filed June 17, 1921. Serial No. 478,398. 9 Claims. (Cl. 61—78.)



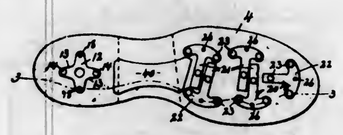
1. For driving tubular structures into the soil, the combination of, a tubular member, a tapered nose at the lower end thereof having driving connection with the tubular member, a monkey guided to rise and fall in an approximately vertical path and in falling to strike the top of the tubular member, a second monkey within the tubular member and immediately behind the nose of the same, means for causing the upper monkey to rise and to be dropped alternately on to the top of the tubular member, and non-rigid means having in itself a comparatively small inertia effect connecting the lower monkey to the upper monkey, whereby the lower monkey is made to follow the movements of the upper monkey.

1,391,345. GASOLENE-VALVE LOCK. SAUL SARMAS, Philadelphia, Pa. Filed Oct. 4, 1920. Serial No. 414,413. 1 Claim. (Cl. 251—6.)



A valve comprising a plurality of nested valve members having fluid passages arranged for registry, the upper end of each member carrying an indicating hand which is adjustable thereabout, and each of said members being formed with a transverse opening in parallel relation to its fluid passage for coöperative reception of a tool to hold the members with their fluid passages in registry when the hands are being adjusted.

1,391,346. CLEAT ATTACHMENT FOR FOOTBALL-SHOES. JOSEPH KARL SCHWARZER, Syracuse, N. Y. Filed Apr. 26, 1921. Serial No. 464,658. 1 Claim. (Cl. 36—59.)



In a foot-ball shoe, a one-piece leather sole and heel, a thin metal plate applied to the upper face of the heel and provided with pendent hollow bosses projecting through apertures in the heel portion and threaded internally, a heel-lift applied to the under side of the heel portion and provided with apertures registering with the first named apertures and frusto-conical spurs having their larger ends flat and bearing against the under side of the heel and provided with central upwardly projecting threaded members screwed into the internally threaded bosses, an extra sole applied to the lower face of the main sole portion, a series of relatively thin metal plates secured to the upper face of the main sole portion in spaced relation and provided with hollow bosses projecting upwardly through apertures in the main sole portion, said extra sole being provided with apertures registering with those in the main sole portion, and separate conical studs having their larger ends flat and engaged with the under side of the extra sole and provided with upwardly projecting threaded members screwing into the hollow bosses.

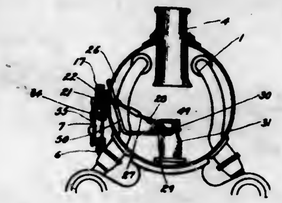
1,391,347. FLOAT-OPERATED CIRCUIT-CLOSER. JOSEPH I. STANFA, Erie, Pa. Filed Aug. 24, 1917. Serial No. 187,977. 2 Claims. (Cl. 200—84.)



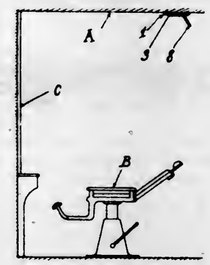
1. In a circuit closer, the combination with a receptacle, inwardly extending ears carried by the receptacle, a float lever having downwardly extending ears intermediate its ends extending between the ears carried by the receptacle and having an angular opening therein, insulating blocks within said openings, a pivot extending through the ears carried by the receptacle and through the blocks, a float carried by the inner end of the lever, and a terminal detachably mounted on one end of the lever and another terminal mounted on the receptacle, whereby the raising of the float causes the outer end of the lever to engage the receptacle and complete the circuit.

1,391,348. DRAFT-REGULATOR. HENRY V. STEVENS, Emporia, Kans. Continuation of application Serial No. 284,756, filed Mar. 24, 1919. This application filed June 7, 1920. Serial No. 386,953. 10 Claims. (Cl. 162—8.)

1. In a draft regulator for steam boiler furnaces, a nozzle having an expansible and contradictible ring at its outlet and to vary the effective port area of said nozzle, means responsive to boiler pressure for expanding and contracting said ring, and a boiler pressure actuated lubricating means for supplying lubricant to said ring.

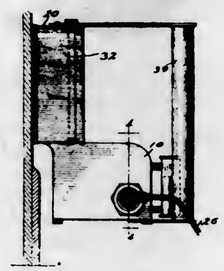


1,391,349. DISPLAY-PANEL. DOLPHUS M. TOLTON, Pomona, Calif. Filed Feb. 23, 1921. Serial No. 447,309. 3 Claims. (Cl. 40—125.)



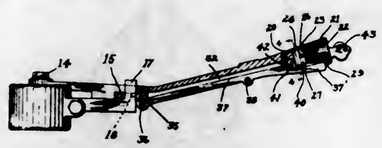
1. A device of the class described comprising a panel made in the shape of a frame, means for supporting an object in the frame, said panel having sockets in one side thereof and a mirror frame having projections thereon for engaging said sockets for holding the mirror frame in an inclined position relative to the panel.

1,391,350. STEAM WALL-PAPER REMOVER. ARTHUR WALLACE TUCKER, Tulsa, Okla., assignor of one-half to J. P. Riche, Kansas City, Mo. Filed Oct. 5, 1920. Serial No. 414,893. 6 Claims. (Cl. 216—8.)



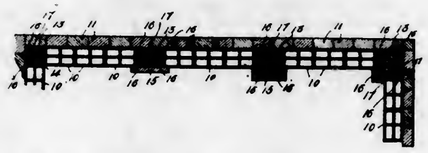
5. In a steam wall paper remover of the character described, a reservoir for water having a steam space and a steam outlet, a distributer arranged over the steam outlet of the reservoir and having an opening, a distributer screen of wire mesh covering said opening, and a series of deflectors directing the steam toward the screened opening of the distributer.

1,391,351. LOCK. HENRY G. VOIGHT, New Britain, Conn., assignor to Sargent & Company, New Haven, Conn., a Corporation of Connecticut. Filed Dec. 12, 1917. Serial No. 206,768. 14 Claims. (Cl. 70—132.)



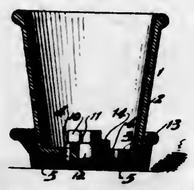
1. An adjustable lever having a slot extending lengthwise of the same, a rocking member mounted within said slot, and a key-controlled lock mounted within said lever, said lock provided with rotatable means operable by a key and movable thereby into position to block the rocking movement of said member within its slot.

1,391,352. FIREPROOF BUILDING CONSTRUCTION. ALFRED P. WARD, San Antonio, Tex. Filed Oct. 1, 1917. Serial No. 194,220. 5 Claims. (Cl. 72—16.)



1. In wall construction, the combination of a plurality of tiles laid up with vertical spaces between the facing ends of certain of the tiles, a brick facing laid up against the outer sides of said tiles and across said vertical spaces to close the same, and poured cementitious elements molded in said spaces between the tiles and the brick.

1,391,353. FLOWERPOT OR OTHER VESSEL. RUSSELL D. WELLS, Royersford, Pa. Filed Aug. 21, 1920. Serial No. 405,170. 5 Claims. (Cl. 47—19.)

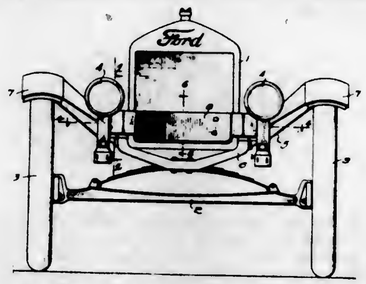


2. A flower pot or other vessel having a base provided with ports and parallel walls on the bottom of said base, into the spaces between which walls said ports discharge.

5. The combination of a vessel, a saucer therefor, spacing devices intermediate the bottoms of said vessel and saucer, and locking means common to said saucer and vessel, whereby a partial axial rotation of either will immovably lock said saucer with respect to its vessel, the bottom of said vessel having ports therein leading to the passages between said spacing devices.

1,391,354. WATER-HEATER. ROBERT W. WIEDERWAX, Atlantic City, N. J., assignor, by direct and mesne assignments, to Geist Manufacturing Company, Atlantic City, N. J., a Corporation of Delaware. Filed Dec. 23, 1920. Serial No. 432,795. 8 Claims. (Cl. 126—350.)

1. In a device for heating the circulating fluid in cooling systems of motor vehicles, the combination with a radiator, of a relatively shallow casing arranged in front of said radiator, a casing arranged in the rear of said



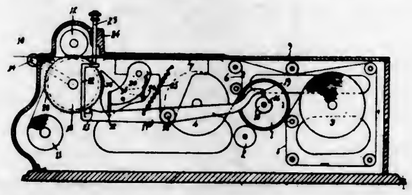
radiator, and burner casings arranged at each side of said front casing and communicating therewith.

1,391,355. AIRCRAFT. NICOLAS WOYEVODSKY, London, England. Filed May 12, 1919. Serial No. 296,700. 18 Claims. (Cl. 244—12.)



1. A craft formed throughout of pterygoid aerofoil cross section inclosing all structural parts, in which the aerofoil section while maintaining a constant contour increases constantly in length from one longitudinal section of the aircraft to another.

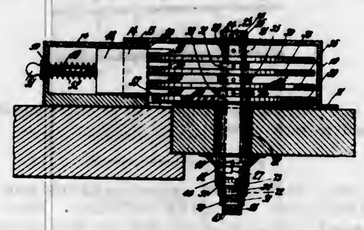
1,391,356. PRINTING AND SERVING MACHINE. CLAYTON E. WYRICK, Albany, N. Y., assignor to Multi-Print System Co., Inc., Chicago, Ill., a Corporation of South Dakota. Filed Dec. 7, 1918. Serial No. 265,772. 8 Claims. (Cl. 101—227.)



1. In a printing and serving machine, a printing roll, there being a paper roll formed of a spirally wound strip adapted to be withdrawn in printing contact with the printing roll, withdrawing means therefor, a spring actuated locking device for preventing withdrawal of the strip, a control device on the printing roll adapted to release the locking means to actuation by the spring at predetermined intervals.

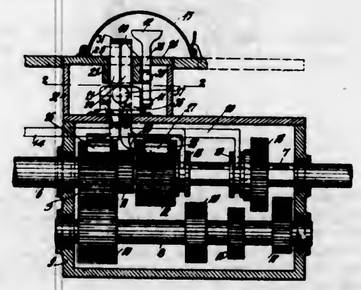
1,391,357. PERMUTATION-LOCK. RICHARD BAER, New York, N. Y. Filed May 19, 1920. Serial No. 382,645. 4 Claims. (Cl. 70—53.)

1. In a lock, a casing, a shaft on said casing, a plurality of superimposed relatively rotatable sleeves upon said shaft, a plurality of locking members operatively connected to the respective inner ends of said sleeves, and disposed in spaced relation to each other, the outer ends of said sleeves being exposed to permit of independent operation thereof to bring said locking members to predetermined relation with each other, said members being provided with cut-outs adapted to be alined in said predetermined relation, and a keeper provided with a plurality of spaced portions adapted to be disposed in the



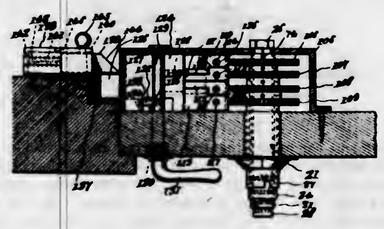
spaces between said locking members and adapted to be released from engagement with said locking members upon alinement of said cut-outs in said predetermined relation.

1,391,358. LOCKING DEVICE FOR MOTOR-VEHICLES. RICHARD BAER and HUGO KOPP, New York, N. Y. Filed July 1, 1920. Serial No. 393,348. 11 Claims. (Cl. 70—90.)



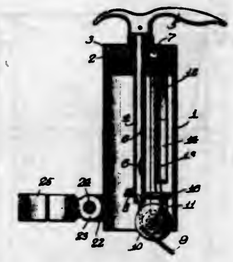
1. In combination with change speed mechanism, including rotatable power transmission elements, one of said elements being axially shiftable for connection and disconnection with respect to the other element; means for locking said elements against rotation when in disconnected relation.

1,391,359. PERMUTATION-LOCK. RICHARD BAER, New York, N. Y. Original application filed May 19, 1920, Serial No. 382,645. Divided and this application filed June 2, 1921. Serial No. 474,359. 4 Claims. (Cl. 70—53.)



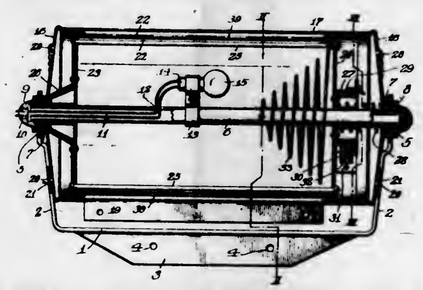
1. In a lock, a casing, a shaft in said casing, a plurality of superimposed relatively rotatable sleeves upon said shaft, a plurality of gears respectively mounted upon the inner ends of said sleeves, the outer ends of said sleeves being exposed to permit of independent operation thereof to turn said gears, a plurality of relatively movable members having teeth engaging said respective gears, and having bolt engaging portions, a bolt in said casing adapted to be retracted and propected, and having means to engage said bolt engaging portions in retracted position, and in a predetermined position of said sleeves in which said portions are in alinement with said means on said bolt.

1,391,360. AUTOMOBILE-SIGNAL-CONTROLLING DEVICE. WALTER L. BEACH, Flint, Mich. Filed Dec. 15, 1919. Serial No. 344,874. 6 Claims. (Cl. 74—5.)



3. A controlling device adapted for operating a signal, comprising a cylinder, a reciprocatory and rotary operating member slidable in said cylinder, a flexible member connected to said operating member and adapted for operating a signal, and a stop member supported at one end of said cylinder and extending into said cylinder parallel to said operating member and adapted to limit the movement of said operating member.

1,391,361. EXHIBITOR FOR SIGNALS. WALTER L. BEACH, Flint, Mich. Filed Mar. 8, 1920. Serial No. 364,277. 4 Claims. (Cl. 116—43.)

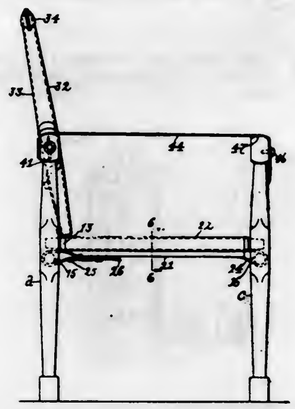


1. An exhibitor for signal purposes, comprising a bracket having end arms, a casing, caps on the ends of said casing, circumferentially disposed teeth on said caps adapted to engage in said arms and hold said casing relative to the end arms of said bracket, and a rotary sign member in said casing.

1,391,362. KNOCKDOWN CHAIR. EDWARD BICKEL, Seattle, Wash. Filed Oct. 16, 1919. Serial No. 330,986. 3 Claims. (Cl. 155—196.)

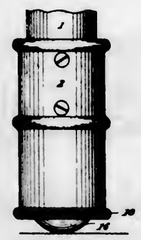
1. In a knock-down chair, in combination, a frame comprising upright corner posts or members provided with sockets, cross bars removably inserted into said sockets to connect the corner posts together, a flexible seat member provided with loops through which are passed the front and side cross bars, and having straps to engage the rear cross bar, bars pivoted to the rear corner posts to form a back supporting frame, a flexible

back member provided with side loops for the reception of the upper portion of said pivoted bars and having side flaps passed about the lower part of said pivoted bars, and



provided with straps and buckles to connect the side flaps together, and flexible side arms connecting the rear and front corner posts.

1,391,363. FURNITURE-CASTER. LUKAS BOZIK, Livingston, Ill. Filed Mar. 22, 1921. Serial No. 454,597. 1 Claim. (Cl. 16—151.)



A furniture caster of the type described comprising a caster body having sockets at the upper and lower ends thereof, an anti-friction bearing ball supporting frame positioned within the lower socket and interlocked with the walls thereof, a caster ball extending into said socket and frame, a ring threaded into the end of the lower socket for retaining the caster ball in position, said bearing ball supporting frame including an annular band, an arched spider-shaped frame carried by said band and having ball-receiving openings therein, and radial lugs carried by said band, the inner face of the lower socket having T-shaped grooves therein into which the band lugs are received for retaining the bearing ball frame within the caster body.

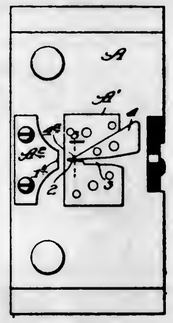
1,391,364. JOINT. CARL V. BULOW, Bridgeport, Conn. Filed Sept. 20, 1920. Serial No. 411,638. 7 Claims. (Cl. 287—104.)

1. A joint consisting of a pair of interlocking members and a pair of cut-away tubular members rotatably mounted thereon, said tubular members capable of rotating on said interlocking members as a unit to be positioned so



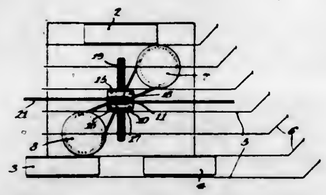
that said interlocking members can be either moved from or held to each other.

1,391,365. METHOD OF AND APPARATUS FOR MANUFACTURING CROCHET-NEEDLES. GUSTAV A. CARLSON, Chicago, Ill., assignor to The Boye Needle Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 31, 1920. Serial No. 407,236. 3 Claims. (Cl. 78—81.)



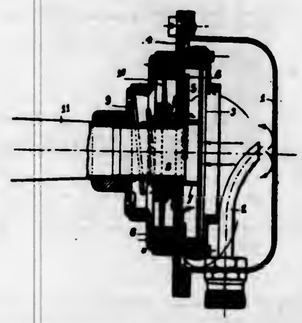
1. The method of manufacturing a crochet-hook which comprises stamping the extremity of a shaft between dies to form a hook and a central fin surrounding the hook; then forcing the hook into a female die by means of a male die, the dies being adapted to completely sever the fin from the hook.

1,391,366. MOTOR-PLOW. PAUL LOUIS CHAMPONNOIS, Villiers-le-Sec, Creuilly, France. Filed Jan. 29, 1913, Serial No. 744,987. Renewed Mar. 31, 1921. Serial No. 457,360½. 1 Claim. (Cl. 104—169.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



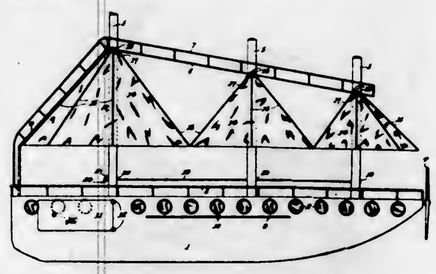
A device for propelling and steering an automobile plow with hauling rope, having a system of rope disks around which the fixed rope is wound the plow being propelled along this rope which is guided by drums adapted to be displaced transversely characterized by the arrangement according to which the steering apparatus consists of a block which forms a nut upon two horizontal transverse screw spindles, said block being adapted to be moved along said spindles, and having two vertical loose rope disks situated in a longitudinal plane and four drums with vertical axles arranged between said horizontal rope disks under the fixed frame of the plow.

1,391,367. SOUND SIGNALING DEVICE. LOUIS CHOLLET, Paris, France. Filed Aug. 11, 1919. Serial No. 316,827. 18 Claims. (Cl. 116—138.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



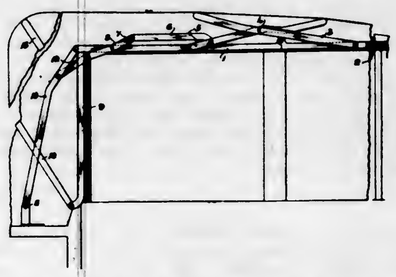
1. A sound signaling device comprising in combination a rigid plate, an axially vibrating tube facing and at right angles to said plate, and means to project a stream of fluid under pressure through the opening of variable cross section between said plate and said tube.

1,391,368. HYDROPLANE. JOHN CISON, Wausau, Wis. Filed Nov. 24, 1920. Serial No. 426,218. 3 Claims. (Cl. 244—2.)



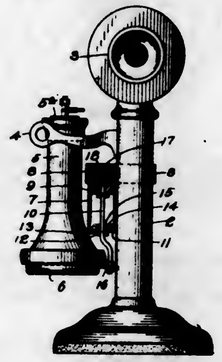
1. A hydroplane comprising a body, a propeller at the forward end thereof, side fins and rudders carried by the body, parachute sections disposed above said body, and an observation platform positioned above said parachute sections.

1,391,369. FOLDING OR COLLAPSIBLE HEAD OR HOOD OF VEHICLES. ARTHUR SAM CHESTON, London, England. Filed Apr. 29, 1920. Serial No. 377,665. 2 Claims. (Cl. 296—116.)



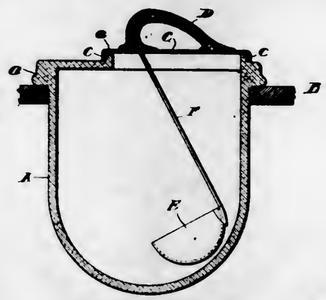
1. In hoods for vehicles, the combination with a cant-rail, of a folding pillar, a link connecting said pillar to the cant-rail, a hinged rear stay pivoted at its upper end directly to the cant-rail, and a link connecting said pillar and the rear stay, so that when the hood is collapsed, the rear stay causes said cant-rail to move rearward relatively to the pillar so that the rear end of the cant-rail extends beyond the end of the pillar.

1,391,370. SUPPORT FOR TELEPHONE-RECEIVERS. CHARLES M. CLARKE, Sewickley, Pa. Filed Aug. 13, 1918. Serial No. 249,735. 14 Claims. (Cl. 179—146.)



5. Means for temporarily supporting a telephone receiver in operative relation to its supporting fork and for lowering it thereinto, having a supporting device and means for interposing a decreasing resistance thereto.

1,391,371. COMBINED COVER AND LADLE. ERNEST L. CONDON, Medway, Mass., assignor to United Soda Fountain Company, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 7, 1920. Serial No. 349,898. 8 Claims. (Cl. 215—1.)

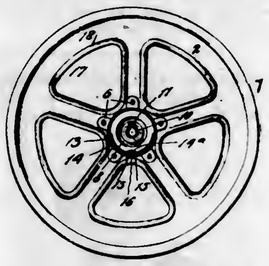


1. A cover for a receptacle having a ladle depending from its under side, said ladle comprising a shank and a bowl, and an elongated handle extending transversely across the top of the cover, the axis of the ladle shank lying in the vertical plane of said handle.

1,391,372. FILM-REEL. ANDREW J. CONNELL, College Point, N. Y., assignor, by mesne assignments, to The Central Metal Products Corporation, a Corporation of Delaware. Filed Oct. 30, 1919. Serial No. 334,429. 5 Claims. (Cl. 242—70.)

5. A sheet-metal film-reel embodying opposing sheet-metal wings, each having a series of corresponding triangular cut-out portions to form spokes and a hub portion provided with an inwardly extending ridge and corresponding axial apertures to form a central bore, a sheet-metal

film-hub fitting over said ridge and having a series of radial flanges at each side thereof abutting against the inner



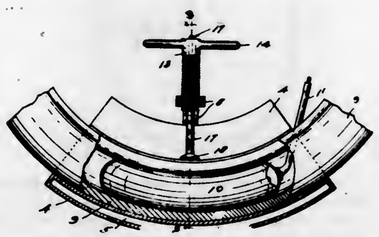
surfaces of said spokes and welded thereto and a sheet-metal machine-hub fitted in said axial aperture and having flanges abutting against the outer edges thereof.

1,391,373. BRACKET FOR SPRING-BAR BUMPERS. WILLIAM G. COX, Cleveland, Ohio. Filed July 5, 1921. Serial No. 482,331. 6 Claims. (Cl. 293—55.)



4. A bracket for spring bar bumpers, comprising a pair of clamping plates having spaced clamping tongues at one end thereof and a projecting lip at the bottom of one of said members adapted to support said member upon a portion of an automobile frame, and a clamping bolt adapted to secure said parts together.

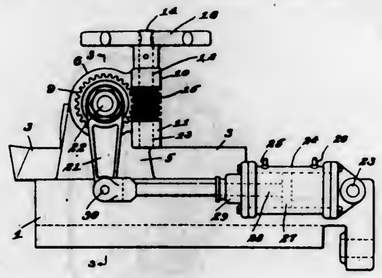
1,391,374. TIRE-PRESSURE DEVICE AND GAGE FOR VULCANIZING-MOLDS. CURLAW DUNCAN and BROUGHAM G. DUNCAN, Minneapolis, Minn. Filed Feb. 25, 1921. Serial No. 447,900. 10 Claims. (Cl. 18—45.)



1. In a vulcanizing apparatus, the combination with a mold, of a pressure gage operative to put a predetermined pressure on a tire in the mold.

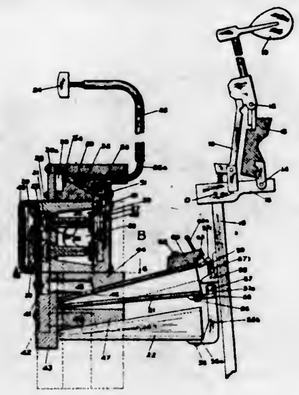
1,391,375. TOOL-HOLDER. ERNEST L. FICKETT and VLADIMIR CHARUSHIN, Fitchburg, Mass., assignors to Manning, Maxwell & Moore, Inc., New York, N. Y., a Corporation of New Jersey. Filed Sept. 30, 1920. Serial No. 413,722. 24 Claims. (Cl. 82—36.)

2. In combination in a tool holder, a support, a fixed clamping jaw therein, a shaft journaled to turn relatively to said support, a cam carried by said shaft, a movable jaw suspended from said cam and actuable



thereby, and power means mounted upon said support for turning said shaft.

1,391,376. PLAYER-PIANO. STANLEY I. FISHER, Chester, Pa., assignor to The Pratt Read Player Action Company, Deep River, Conn., a Corporation of Connecticut. Filed Apr. 24, 1918. Serial No. 230,417. 42 Claims. (Cl. 84—50.)

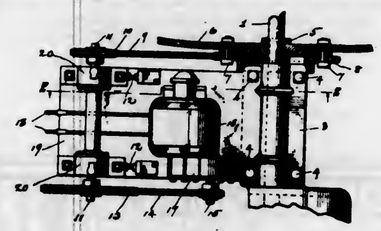


1. In a pneumatic player action, a wind chest having valve chambers in the front part of the same connected by ports with the main tension chamber and atmosphere, double valves in said valve chambers to control said ports, a cap plate applied to the front of the chest and provided with valve ports for coöperation with one or more of said valves but mounted independently of the same, separate horizontally movable actuators for said valves in said chest, said chest being provided at the rear with diaphragm chambers, diaphragms in the diaphragm chambers for operating said actuators, the latter being arranged to support and guide the corresponding valves, and pneumatics beneath the chest in communication with said valve chambers.

1,391,377. CURRENT-GENERATING PLANT. OLIVER P. FRITCHLE, Denver, Colo. Filed Nov. 15, 1920. Serial No. 424,274. 4 Claims. (Cl. 290—55.)

1. A current generating plant comprising a wind wheel, a shaft therefor, upper and lower bearing plates secured by bolts, and a driving member secured to the wheel, in

combination with a current generating plant comprising a dynamo-electric generator and gearing by which it is



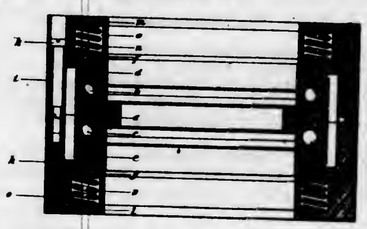
driven from said driving member, said generator and gearing being secured to a rigid plate having apertures through which are passed the bearing bolts.

1,391,378. COMBINED NUT AND BOLT LOCK. ALANSON D. GASTON, Washington, D. C. Filed Sept. 26, 1918. Serial No. 255,840. 10 Claims. (Cl. 151—35.)



5. A nut lock in the form of a perforated concavo convex metal washer having a series of slots entering from the outer edge and a series of slots entering from an inner edge adapted to engage the surface of a bolt, the metal of the outer edge between the slots being laterally offset to form a tooth engaging part, substantially as described.

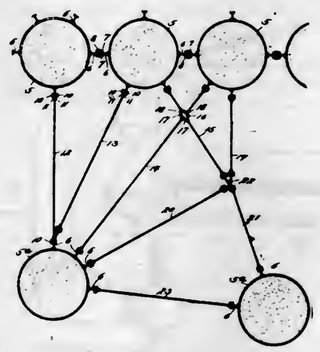
1,391,379. BALL-BEARING. MAX GOHLKE, Pankow, near Berlin, Germany. Filed May 23, 1919. Serial No. 299,376. 2 Claims. (Cl. 64—49.)



2. The combination, with a ball thrust bearing unit comprising two rows of balls, an interposed runner ring, an outer race ring associated with each of said rows, and a bearing ring engaging each race ring; of a two-part casing wherein the bearing unit is rotatably inclosed, each of the casing parts being formed with a series of inwardly-opening internal sockets, and said parts being also formed with series of registering screw holes; springs fitted in said sockets and bearing at their exposed ends against the bearing rings; and screws adjustably engaged in the registering screw holes to fasten the casing parts together and to regulate the tension of the springs.

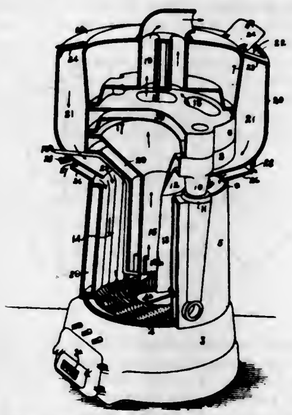
1,391,380. DEEP-SEA CONSTRUCTION. WILHELM GRIESSER, Joplin, Mo., assignor to William C. Griesser, Pittsburgh, Pa. Filed May 15, 1920. Serial No. 381,538. 10 Claims. (Cl. 61—46.)

1. A deep sea construction comprising tubular units having closed bottoms for receiving a filling of material of sufficient weight to sink said units until the closed bottoms thereof rest upon the sea bottom, means extending between said units having longitudinal slidable connections therewith, whereby said tubular units may



have an automatic settling movement with relation to said means, and tubular sections of different widths applied to the upper ends of the tubular units to give the latter a uniform top level.

1,391,381. SECTIONAL BOILER. ELBERT O. HASKINS, Rutherford, N. J., assignor to Richmond Radiator Company, a Corporation of Delaware. Filed July 18, 1917. Serial No. 181,190. 13 Claims. (Cl. 122—218.)

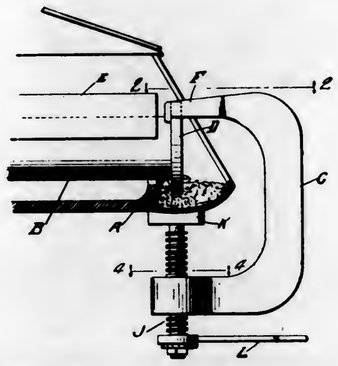


6. In a sectional boiler, the combination with a fire box section, a water section and a dome section superposed in order, of a combustion chamber section supported by said fire box section and provided with an extension depending into the fire box section and spaced therefrom to form a fire space, means for supplying fuel to the top of said space, a magazine section surrounding said water section and said dome section and opening into said fire space, said magazine section provided with a fuel supplying opening and a door for closing said opening to prevent the combustion level of the fuel from raising up into the magazine.

1,391,382. RAILWAY-JOURNAL-BOX JACK. JAMES L. HAWLEY, Savannah, Ga., assignor of one-half to John M. Hawley, Blythewood, S. C. Filed Feb. 19, 1921. Serial No. 446,422. 1 Claim. (Cl. 254—34.)

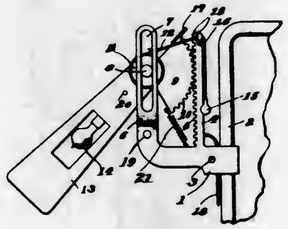
A railway journal box jack comprising a clamp having a yoke and pair of integral jaw members extending at

substantially right angles with the yoke and in angular relationship with each other whereby they may engage the end of the axle at two separated points, and means



on the lower portion of said yoke adapted to engage the journal box for raising and lowering it with respect to the axle.

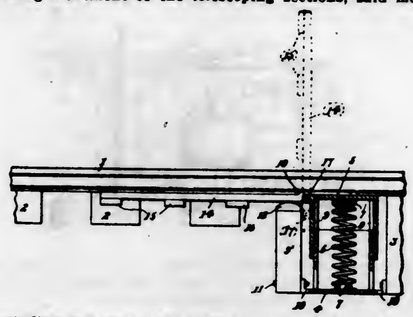
1,391,383. SIGNAL FOR AUTOS. WILLIAM M. HOWELL, Youngstown, Ohio. Filed Oct. 29, 1920. Serial No. 420,479. 1 Claim. (Cl. 116—54.)



A direction indicator, comprising a supporting bracket adapted to be clamped upon an upright of the windshield of a motor vehicle, two arms extending vertically upright from said bracket, one carrying gear teeth, the other being bifurcated, and carrying vertical slots in the bifurcated arms, a drum journaled to ride in said slots, said drum carrying a rigid gear sector adapted to mesh with said gear teeth, and a rigid semaphore arm, a cable wound upon said drum, an operating knob at the end of said cable, whereby upon a pull on said cable the drum is caused to ride in said slots and the semaphore horizontally displayed.

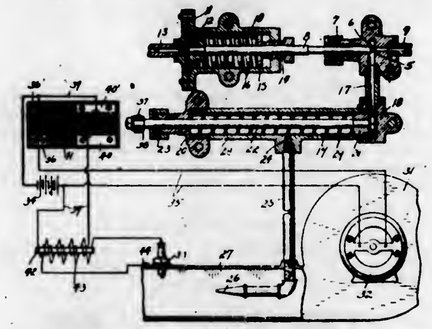
1,391,384. CATTLE-GUARD FOR RAILROAD-CROSSINGS. JOE IHNAT, Nashua, Mont. Filed Jan. 22, 1921. Serial No. 439,210. 1 Claim. (Cl. 39—19.)

A cattle guard for railroad crossings comprising a resilient trip device formed of telescoping sections of U-shape in cross section, interlocking connections between the telescoping sections including cut-out portions in the side walls of the lower stationary section for receiving struck-out angularly bent flanges of the side walls of the upper sliding section, pairs of lugs carried by the upper edge of one section, a guard frame pivotally mounted in said lugs and means disposed beneath said guard frame to move the same from a horizontal to a perpendicular position upon sliding movement of the telescoping sections, said means



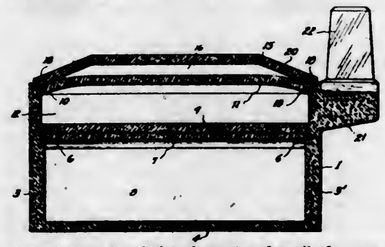
including a transverse bar fixed to one of the telescoping sections.

1,391,385. FUEL-BURNING APPARATUS. ERA C. JACOBSEN, Oak Park, Ill., assignor, by mesne assignments, to American Steam Truck Company, Chicago, Ill., a Corporation of Delaware. Filed Mar. 29, 1920, Serial No. 369,800. Renewed May 9, 1921. Serial No. 468,046. 10 Claims. (Cl. 158—28.)



12 Fuel burning apparatus comprising a blower circuit; an ignition circuit; contacts in said circuits; a switch member; and a member operable by fuel under pressure, connected with said switch member and adapted to move the latter from one of said contacts to the other.

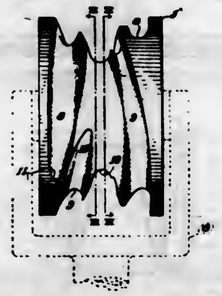
1,391,386. BURIAL-VAULT. THOMAS F. JETER, Snohomish, Wash. Filed May 6, 1920. Serial No. 379,201. 2 Claims. (Cl. 72—7.)



1. A burial vault of the character described comprising a sealed casket chamber, a dead air chamber above the casket chamber and a ventilated air space above the dead air chamber.

1,391,387. TROLLEY-FINDER. LUDWIK KARANDYSZEWSKI, Schenectady, N. Y. Filed May 5, 1921. Serial No. 467,135. 1 Claim. (Cl. 191—75.)

A trolley finder in the form of a wheel having a central annular groove about the periphery thereof and formed with a pair of overlapping spiral cam grooves at each side of said annular groove, the cam grooves at one side being of a pitch opposite to the pitch of those at the other side, and grooves extending from different points on the periphery of the wheel adjacent one side of the latter



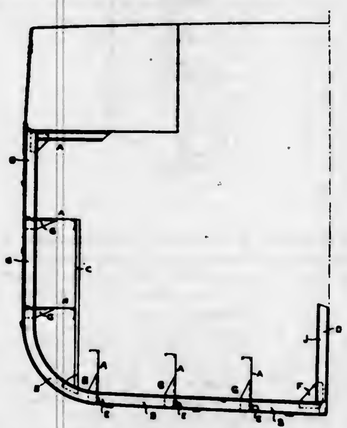
completing but a one-half circle around the periphery of the wheel where they terminate in communication with said central groove, the spiral grooves at each side of the annular groove being in overlapping relation and within the same radial plane.

1,391,388. APPARATUS FOR AUTOMATICALLY PAINTING ARTICLES IN BULK. JULIUS E. KARL, Peoria, Ill. Filed Oct. 4, 1918. Serial No. 256,894. 15 Claims. (Cl. 91—44.)



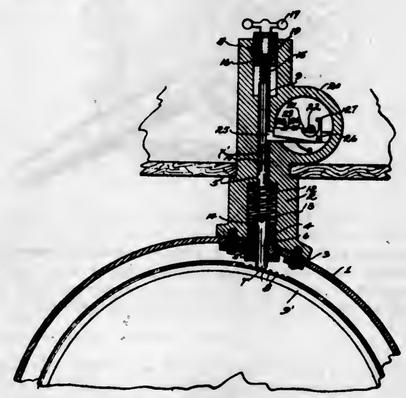
1. In an apparatus for the purposes described, in combination, a wheeled carriage for containing articles to be treated, a track arranged whereby the said carriage in passing over it will be tipped in all directions, and means for conveying a treating material and discharging it upon said articles.

1,391,389. CONSTRUCTION OF SHIPS. JAMES FOSTER KING, Glasgow, Scotland. Filed Oct. 6, 1920. Serial No. 415,154. 2 Claims. (Cl. 114—79.)



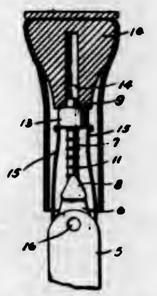
1. An oil-tank ship comprising in combination, a hull, a plurality of exceptionally large widely spaced longitudinal web frames arranged over the girth of the hull below the lowest deck or tier of beams, and a plurality of relatively small longitudinally-spaced transverse frames shaped to conform to the contour of the ship and connected to said longitudinal web frames, whereby floors or their equivalent wide spaced bottom transverses may be dispensed with.

1,391,390. AUTOMOBILE-LOCK. CHARLES KNAPP, Minneapolis, Minn. Filed Oct. 18, 1919. Serial No. 332,080. 1 Claim. (Cl. 70—90.)



In an automobile lock the combination of a casing, a lock bolt slidably mounted in said casing, a spring for holding said lock bolt in an extended position, a shaft joined to said lock bolt, but allowing a definite slidable movement in relation thereto, rotatable means carried by said casing for lifting said shaft and thereby said lock bolt, a lock including a bolt positioned in said casing, said bolt being engageable with said shaft, and means in said lock for withdrawing said bolt from engagement with said shaft.

1,391,391. SHOE-PROTECTOR. WILLIAM H. KOENEN, St. Louis, Mo. Filed Nov. 15, 1920. Serial No. 424,093. 3 Claims. (Cl. 12—126.)

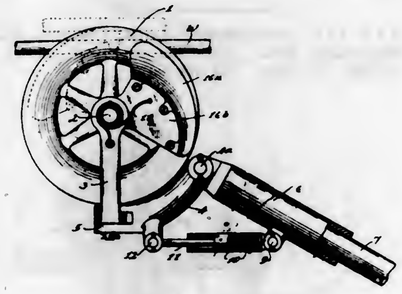


1. A shoe protector comprising a last and a last support, a pin carried by the last support, springs carried by the last support, and a spreader mounted on said pin, said spreader operating when it is depressed to force apart the free ends of the springs and to cause said springs to clear the bottom of the last and pass along the sides thereof.

1,391,392. TROLLEY-RESTORING MECHANISM. GEORGE A. LAFONTAINE, Los Angeles, Calif. Filed Nov. 7, 1918. Serial No. 262,391. 1 Claim. (Cl. 191—60.)

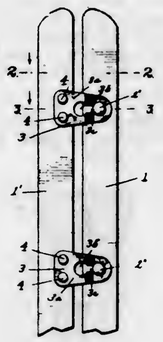
In a device of the character described, in combination, a trolley pole and trolley wheel, a yoke pivotally held on said

pole and capable of movement about a horizontal axis, a swivel wheel support pivoted to said yoke and having a vertical axis for permitting the turning of said wheel corresponding to a bend in the trolley wire, a cylinder pivotally



connected with said pole, a plunger pivotally connected with said yoke and slidable in said cylinder and a spring interposed between the end of said plunger and said cylinder, for holding said wheel in operating position.

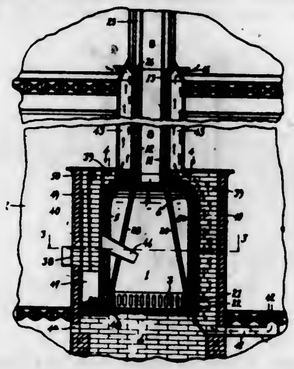
1,391,393. FRONT STEELS ON CORSETS. AUGUSTE JEAN LECOUTRE, Worcester, Mass., assignor to Royal Worcester Corset Co., Worcester, Mass., a Corporation of Massachusetts. Filed May 27, 1919. Serial No. 300,075. 2 Claims. (Cl. 24—222.)



2. The combination with corset steels, of a stud, and a clasp, the clasp having inclines on its outer surface for pressing the bases together when engaged, and having its inner surface extending all in one plane, to prevent improper engagement of the stud and clasp.

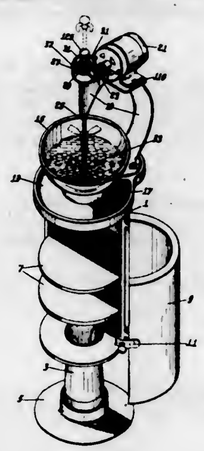
1,391,394. HEATING SYSTEM. JOSEPH C. LOYER, Detroit, Mich. Filed July 24, 1918. Serial No. 246,481. 8 Claims. (Cl. 126—132.)

1. In a heating system for buildings, the combination of a fire box formed of hollow metal walls providing water reservoirs converging at the top, the top having an opening, a smoke flue connected with the said opening, water reservoirs provided about the smoke flue and opening into the converging ends of the said hollow fire box walls, tubes on each side of the interior of the fire box, the tubes on one side being connected with the bottom of the hollow side walls and extending upward and connecting with the same side directly below the connection



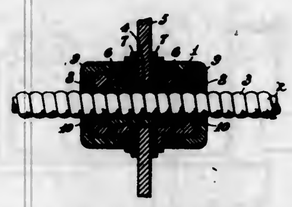
with the flue reservoir on that side, the pipes on opposite sides of the box converging at the top, and a grate at the bottom of the said fire box.

1,391,395. APPARATUS FOR HANDLING STAIN. THOMAS LUND, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Feb. 18, 1918. Serial No. 217,882. 2 Claims. (Cl. 259—134.)



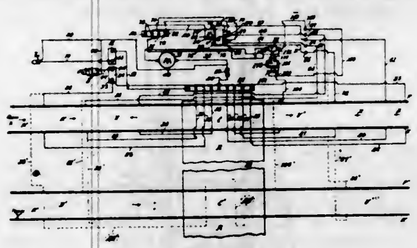
1. An apparatus for stirring stain comprising a table for supporting the liquid to be stirred, a motor carrying standard secured to the table and having an arm overhanging the liquid, a cup-shaped oil retaining casing carried by the overhanging arm, a worm gear and a driving worm rotatable within the casing, there being vertically alined bores through the overhanging arm and the worm gear, a stirrer having a stem slidable through the bores, a pair of fingers on the stem extending outwardly and downwardly and with rounded ends, and a pair of widely spaced projections formed on the gear whereby the stem can be readily placed in driving engagement with the gear upon downward movement of the stem.

1,391,396. BUSHING. ADNAH MCMURTRIE, New York, N. Y. Filed July 5, 1918. Serial No. 243,306. 2 Claims. (Cl. 286—16.)



1. A bushing of the class described, comprising a central nipple threaded exteriorly, a plurality of intermediate nipples threaded interiorly and seated upon said central nipple toward the respective ends thereof, and a plurality of outer nipples screwed upon said intermediate nipples, in combination with a plurality of gaskets interposed between said outer and intermediate nipples in position to be constricted into water-tight engagement with an axially arranged conduit member passing through an aperture in a wall, and gaskets surrounding said central nipple in position to be forced against the opposite sides of said wall, surrounding said aperture, by engagement of said intermediate nipples with said gaskets.

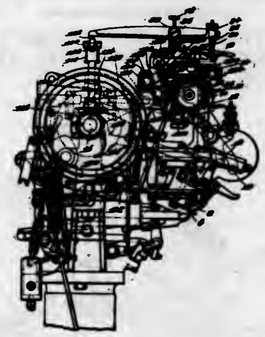
1,391,397. AUTOMATIC RAILROAD-GATE. FRANK MAJCHROWICZ, Cleveland, Ohio. Filed Apr. 21, 1921. Serial No. 463,201. 5 Claims. (Cl. 246—129.)



1. A railway safety device for highway crossings comprising an oscillating gate adapted for movement across the highway, an electric lamp upon the gate, an electrical bell adjacent the gate, an electric circuit for the lamp adapted for automatic closing when the gate is closed, an insulated track section over which a train is adapted to pass before reaching the crossing, electrical connections for the rails of said section and said bell, an automatic switch in the bell circuit normally open when the gate is open, a second insulated track section between the bell section of track and the highway, an operating motor for the gate in circuit with said second track section adapted for closing the gate when the circuit between the rails of said second track section is closed by a train positioned thereon, an electrical cut-out for the motor, an insulated track section across the highway with the rails thereof electrically connected to the cut out adapted upon closing the circuit between the rails by a train upon the crossing for actuating said cut out whereby the circuits for the opening and closing track sections is rendered inoperative.

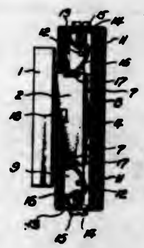
1,391,398. SEWING-MACHINE. WILLIAM C. MEYER, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Original application filed May 6, 1916, Serial No. 95,893. Divided and this application filed Sept. 6, 1918. Serial No. 252,969. 11 Claims. (Cl. 112—59.)

1. A tension device for sewing machines having, in combination, a tension wheel, a brake for the tension wheel, a brake actuating spring, operative connections between the spring and the brake, and means for automatically adjusting relatively certain of said connections



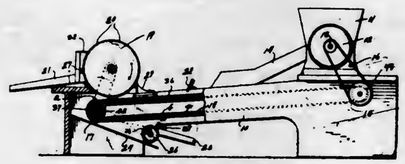
to cause the spring to act with a pressure which is uniform for any given speed of the machine regardless of wear on the parts of the brake.

1,391,399. FUSE. BENJAMIN L. MOSS, Detroit, Mich. Filed Mar. 22, 1920. Serial No. 367,921. 10 Claims. (Cl. 200—131.)



1. In a cartridge fuse, a holder having a three walled groove, and a bowed fuse in said holder groove and protruding therefrom.

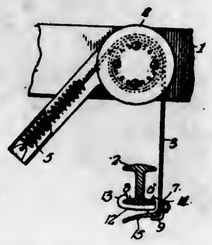
1,391,400. ORE-SEPARATOR. JOHN J. NEVILLE, Clifton Forge, Va. Filed June 18, 1921. Serial No. 478,704. 3 Claims. (Cl. 83—71.)



1. An ore separator of the character described including a supporting frame, an endless carrier traveling thereon and supporting a plurality of transversely extending electro-magnets disposed in proximity to each other and each provided with a projecting contact, a drum disposed above the path of travel of the carrier and in proximity thereto and carrying a plurality of electro-magnets mounted thereon, means for energizing the electro-magnets of the drum from a point immediately above the carrier to a point where the electro-magnets are moving downward and forward, and means for energizing the electro-magnets of the carrier from a point on the upper flight of the carrier forward of the drum to a predetermined

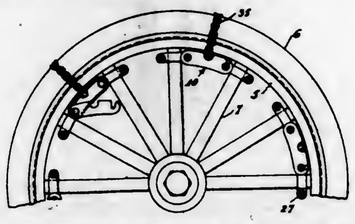
point on the lower flight of the carrier to thereby cause magnetic particles not acted upon by the drum to be held to the carrier for a predetermined distance as it traverses its lower flight.

1,391,401. CLAMPING DEVICE. JAMES C. NICHOLS, Berwyn, and ELMER RYDER, Argo, Ill. Filed Sept. 3, 1920. Serial No. 407,956. 2 Claims. (Cl. 267—10.)



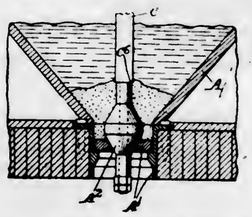
1. The combination with a strap and a member, of means for clamping the strap to said member, comprising inner and outer plates adapted to receive the strap between them, the inner plate having a flange to engage over said member, and clamp bolts extending through said plates on opposite sides of the strap and having hooked ends to engage over that edge of the member opposite to said plates.

1,391,402. WHEEL-CHAIN FOR VEHICLES. JAMES POWERS, New York, N. Y. Filed Sept. 5, 1919. Serial No. 321,912. 7 Claims. (Cl. 152—14.)



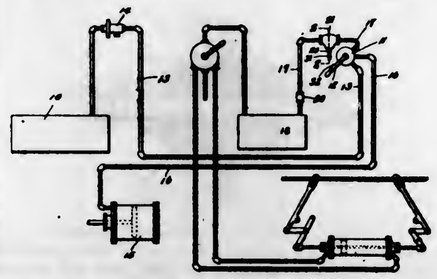
1. In combination, a wheel having a pocket thereon; and a chain secured to said wheel and adapted to be passed around the wheel tire or stored in said pocket, one end of said chain being anchored against circumferential displacement relative to the wheel.

1,391,403. HUTCH-VALVE. AXEL G. J. RAPP, Chicago, Ill., assignor to Link-Belt Company, Chicago, Ill., a Corporation of Illinois. Filed Jan. 27, 1919. Serial No. 273,278. 5 Claims. (Cl. 137—21.)



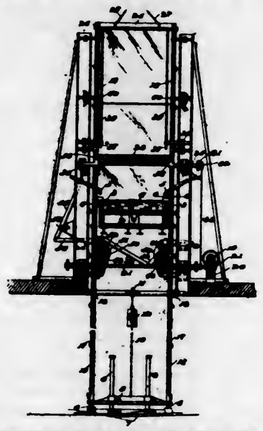
1. A hutch valve assembly, comprising a tubular socket, a shoulder therein, a flat apertured valve plate resting loosely upon the shoulder, a valve member adapted to reciprocate toward and from the plate to open and close the aperture, and a part associated with said member and adapted at all times to project beyond the plate.

1,391,404. AIR-BRAKE APPARATUS. JOHN M. READEY, St. Louis, Mo. Filed July 19, 1920. Serial No. 397,281. 8 Claims. (Cl. 303—58.)



1. The combination with an air brake apparatus including an engineer's valve, of a container connected to the exhaust port of said engineer's valve, a valve for controlling the passage of exhaust fluid pressure from the engineer's valve to said container which valve is adapted to be opened by movement of the handle of the engineer's valve to permit the exhaust of fluid pressure to atmosphere and means under control of the pressure within the container for controlling the operation of said valve.

1,391,405. SHEET-GLASS-DRAWING MACHINE. CLARENCE A. RHONEMUS, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Apr. 19, 1919. Serial No. 291,214. 14 Claims. (Cl. 49—17.)

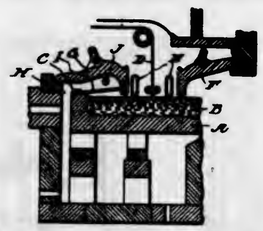


1. In a sheet glass drawing mechanism, the combination of a receptacle containing molten glass, with a series of vertically-moving width-maintaining devices on opposite sides of said receptacle removably engaging the edges of the sheet at the formative point.

12. In a sheet glass drawing mechanism, the combination of a pot containing a mass of molten glass and having oppositely-disposed discharge portions below the glass level, and vertically moving longitudinally slotted tubes having transverse openings therein, with transverse glass scoring mechanism entering said opening, and longitudinal glass scoring devices.

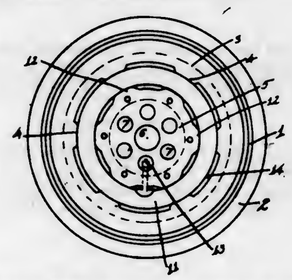
1,391,406. SHEET-GLASS-DRAWING APPARATUS. CLARENCE A. RHONEMUS, Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio, a Corporation of Ohio. Filed Dec. 30, 1919. Serial No. 348,319. 3 Claims. (Cl. 49—17.)

1. In a sheet glass drawing apparatus, a receptacle for molten glass from which the sheet is drawn, a cooler for the sheet adjacent the drawing point, gaseous heating means above the molten glass for heating the surface glass,



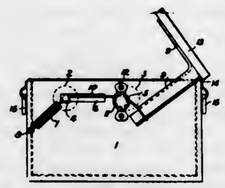
and a shield between the heating means and the glass, transmitting the heat downwardly therethrough, but preventing direct contact of the hot gases with the cooler.

1,391,407. PNEUMATIC WHEEL. JOSEPH W. RICKETTS, Detroit, Mich. Filed Feb. 3, 1917. Serial No. 146,361. 1 Claim. (Cl. 152—46.)



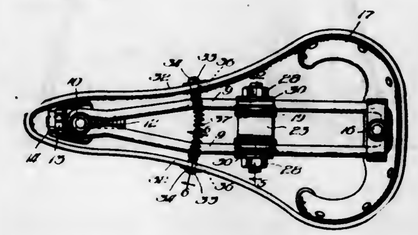
In a pneumatic wheel, a felly carrying a tire, a central hub portion, the felly having a part extending toward the hub and the hub being of the same width and in the same plane as the inwardly extending portion of the felly, an inflatable tube circular in cross section between the felly and hub portions, a valve stem for the tube, the inner periphery of the felly and the outer periphery of the hub providing a seat for the tube each being provided with corresponding recesses and pairs in radial alinement, plates secured to opposite sides of the hub portion and engaging the felly, the plates being centrally apertured and exposing the hub and being formed with annular recesses inclosing the tube space between the said felly and hub, the said hub having a central aperture for an axle and a second aperture extending transversely therethrough at a distance from the center of the hub, said hub having a radial aperture extending between the second aperture and a recess in the tube seat for reception of the valve stem.

1,391,408. WRINGER FOR MOPS, FLOOR-CLOTHS, AND THE LIKE. SAM WATSON ROBBINS, Bristol, England. Filed Oct. 6, 1920. Serial No. 415,086. 1 Claim. (Cl. 15—12.)



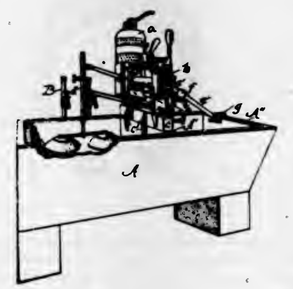
A wringer, comprising a receptacle, a pedal pivotally secured to the upper edge of said receptacle and adapted to swing inwardly over the receptacle when depressed, thereby to form a cover for said receptacle, a pair of rollers mounted for rotation within the receptacle, one of said rollers being slidable toward the other, a toggle connection between said pedal and slidable roller for sliding the same in one direction, and a pair of springs disposed outside of the receptacle and automatically operable on removal of pressure from said pedal for sliding the roller in the opposite direction and simultaneously returning the pedal to its initial position.

1,391,409. SADDLE. HENRY T. ROBERTS, New York, N. Y. Filed July 3, 1919. Serial No. 308,393. 3 Claims. (Cl. 208—15.)



1. A one piece truss for a saddle consisting of a continuous member of loop form closed at its ends, the side members thereof extending substantially parallel and enlarged midway their length to form clamping buttons, for the purpose set forth.

1,391,410. WASHING-MACHINE ATTACHMENT. FRANK E. ROBERTSON, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a Corporation of Ohio. Filed May 16, 1918. Serial No. 235,005. 7 Claims. (Cl. 68—19.)

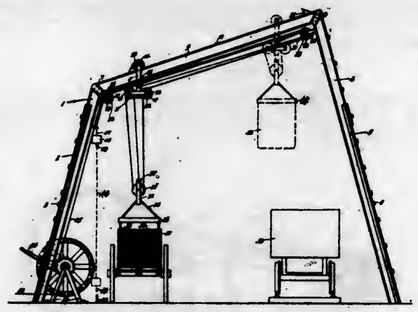


1. In mechanism of the class described, the combination with a stationary tub structure, of a washing machine and its operating motor, and a relatively resilient intermediate member positioned between the tub structure and the washing machine and firmly secured to each, substantially as set forth.

1,391,411. HOISTING APPARATUS. AVELINO FERNANDEZ ROCES, Manzanillo, Cuba. Filed Oct. 30, 1919. Serial No. 334,547. 2 Claims. (Cl. 212—87.)

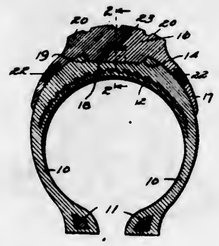
1. A hoisting apparatus of the character specified, including a frame comprising a slanting beam, oblique members of unequal height supporting the ends of said beam from the ground, a pulley secured to the lower end of said beam, a second pulley secured to the upper end of the higher oblique member, a carriage movable on said beam and provided with a pair of pulleys, a cable trained around

said pair of pulleys to form a loop, a running block arranged in said loop and having one end of said cable secured thereto, a winding drum from which said cable originates, said cable being trained around said second pulley



and around said first named pulley to provide thereby successively raising or lowering of the running block and lateral movement of said carriage on said beam upon proper rotation of said drum.

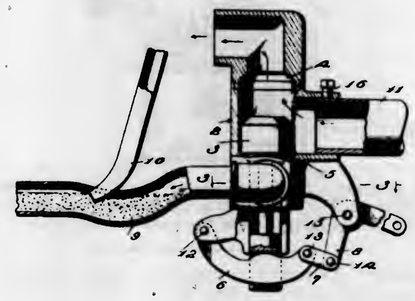
1,391,412. AUXILIARY TREAD FOR PNEUMATIC TIRES. GEORGE F. ROTH, Des Moines, Iowa. Filed July 9, 1920. Serial No. 394,909. 1 Claim. (Cl. 152—17.)



In a device of the class described, the combination of a pneumatic tire casing, having in its exterior tread surface an annular groove of substantial width extending circumferentially entirely around the casing, an annular protective tread member for said casing, having a central, substantially thick portion provided with an inwardly extending rib received in said groove, said groove and rib being provided with lugs and recesses adapted to co-act with each other, said thick portion being slightly wider than said groove, said tread member having relatively thin portions extending partly around the casing on each side thereof, a resilient substantially flat band received in said thicker portion of said tread member radially outwardly from said lugs and recesses, and resilient annular bands received in the thinner portions of said tread members.

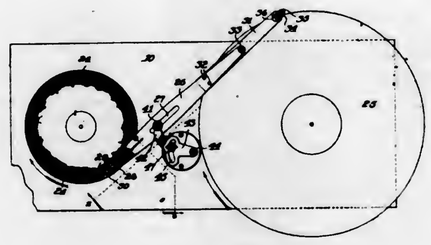
1,391,413. NON-SKID SAFETY DEVICE. NORVAL RUNSTETLER, Seattle, Wash. Filed Aug. 25, 1920. Serial No. 405,892. 1 Claim. (Cl. 291—3.)

In a sanding device for automobiles, a sand trap and means for delivering sand thereto, a valve casing adapted to be connected to the engine exhaust, and having two outlets, one being connected to said trap, said casing having two opposed seats, a plunger reciprocable in the



casing and having valves at its opposite ends adapted to seat selectively upon said valve seats, to permit normal exhaust or to admit air behind the sand in said trap to expel it.

1,391,414. ART OF REPRODUCING SOUND VIBRATIONS. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Apr. 4, 1919. Serial No. 287,420. 2 Claims. (Cl. 33—23.)

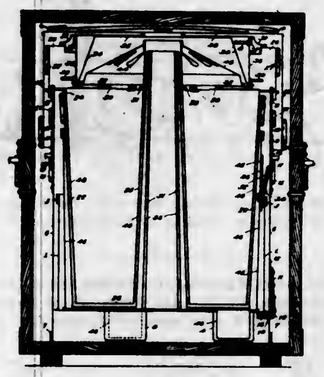


1. In apparatus for reproducing sound record grooves, means for rotatably supporting a blank and a master record, means for forming an impression in the moving blank, a resilient lever supporting said forming means and adapted to hold it in engagement with said blank, said lever having a variable pivot point, means for supporting said pivot point, guiding means attached to said lever and adapted to be held by it in engagement with the moving master record, and means for varying the resilient thrust of said lever upon said forming and guiding means.

1,391,415. FIELD-STOVE. RUDOLPH I. SCHONITZER, Detroit, Mich., assignor of one-third to J. K. Williams, Springfield, Ohio. Filed Oct. 19, 1918. Serial No. 258,847. 15 Claims. (Cl. 126—9.)

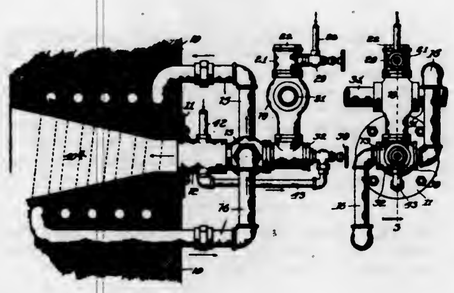
1. A field stove comprising a fire box having an open top, a grate bottom, legs to support the fire box in an elevated position, a heating drum communicating with and rising from the open top of the fire box, said drum being provided near its top with an annular series of inlet draft

openings forming a communication between the atmosphere and the combustion space within the drum, a cooking



receptacle associated with the heating drum, and an offtake conduit for the products of combustion.

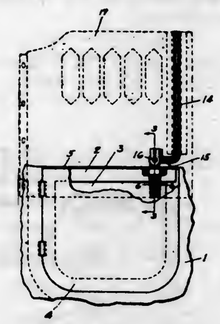
1,391,416. BURNER. EDWARD H. SCHWARTZ, Chicago, Ill., assignor to Edward H. Schwartz, Inc., Chicago, Ill., a Corporation of Illinois. Filed Oct. 9, 1920. Serial No. 415,835. 4 Claims. (Cl. 158—1.)



1. A fuel burner having an air chamber and a mixing chamber separated by a partition, means for supplying air to said air chamber, a hollow heating element surrounding said mixing chamber, piping leading from the air chamber to said heating element, piping leading from said heating element to said mixing chamber, and a fuel nozzle adapted to spray fuel into the stream of preheated air.

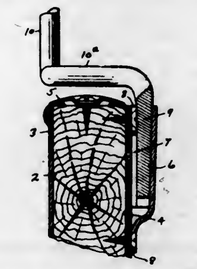
1,391,417. CURTAIN-SUPPORT FOR AUTOMOBILES. GEORGE W. SCOTT, Cleveland, Ohio. Filed Feb. 20, 1920. Serial No. 360,087. 1 Claim. (Cl. 296—139.)

In a support of the character described, the combination with a hinged door, and a curtain, of a curtain support consisting of a socket member secured to said door, a polygonal-shaped rod having corners, the said support and rod being interchangeable as right and left hand members for the door, said rod having a part projecting laterally over the top edge of said door and a vertical part with an offset part between said first-mentioned parts, said rod being bendable for adapting same as a right or left hand rod, a shank projecting within said socket member, an engaging member on the shank, and means



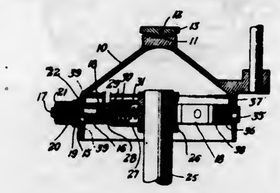
for clamping said engaging member against the corners of said rod in the various positions assumed by said rod for the purpose specified.

1,391,418. CURTAIN-SUPPORT. GEORGE W. SCOTT, Cleveland, Ohio. Filed Feb. 3, 1921. Serial No. 442,252. 2 Claims. (Cl. 296—139.)



1. In a structure of the character described, the combination, with a hinged door, of a sheet metal socket member secured to the inner side of said door, the body of said member being bent to form clamping portions comprising wings which lie against the surface of the door to prevent spreading.

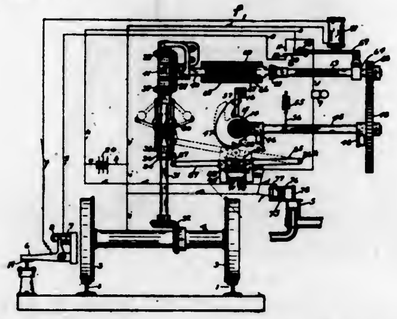
1,391,419. TIMER. WILLIAM FFORD SERVICE, Poughkeepsie, N. Y., assignor, by mesne assignments, to Charles Hardy and Charles H. Potter, New York, N. Y. Filed Dec. 15, 1917. Serial No. 207,247. Renewed Feb. 19, 1920. Serial No. 359,849. 5 Claims. (Cl. 200—26.)



1. A timer comprising a housing, a ring of insulating material carried thereby, a plurality of contacts carried by said ring; a rotor operable for successively engaging said contacts, the rotor comprising a tubular part and a plunger part slidable within the tubular part, a coil spring urging the plunger part outwardly into surface engagement with said ring and contacts, said tubular part being adapted to contain a lubricant, and a wick arranged

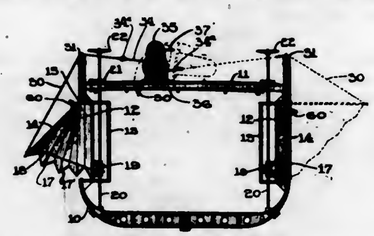
within said coil spring and extending through said plunger part to the outer surface thereof adapted to feed lubricant from said tubular part to the rubbing surface of said ring and plunger.

1,391,420. SPEED-CONTROL DEVICE FOR MOVING VEHICLES. PAUL J. SIMMEN, Buffalo, N. Y. Filed May 1, 1917. Serial No. 165,663. 5 Claims. (Cl. 246—182.)



3. In a railway automatic train speed control, in combination; a trackway; a device on the vehicle moved in accordance with the actual speed thereof; another device on the vehicle having an initial maximum condition and an ultimate minimum condition and moved after release by the movement of the vehicle in accordance with the permissible speed thereof; means governed by the conjoint action of the said devices whereby the speed of the vehicle is governed; means along the trackway for releasing the second device and being normally active to release; means along the trackway for restoring the second device to maximum condition, the last two mentioned means being positioned a distance apart longitudinally of the trackway such that any desired movement of the second mentioned device from maximum to minimum will be caused before restoration of the second mentioned device to maximum.

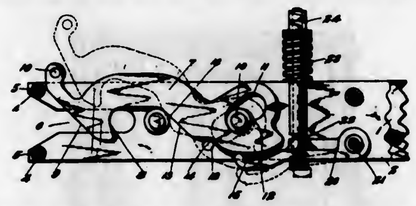
1,391,421. NON-SINKABLE SHIP. STANLEY SOKOLOWSKI and JAKOB FORGIEL, Taunton, Mass.. Filed Apr. 8, 1921. Serial No. 459,676. 5 Claims. (Cl. 114—68.)



1. A ship having a pocket in each side of the hull thereof, hinged doors flush with the hull closing said pockets, air tight bags in said pockets, ropes attached to the inner sides of said doors to hold the same closed, ropes attached to the outer sides of said doors to open the same, and means mounted on the deck of the ship for releasing said first ropes and pulling on said second ropes.

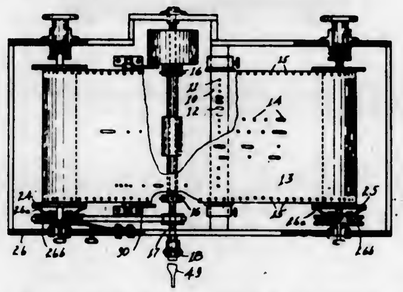
1,391,422. AUTOMATIC RELEASING-COUPLING. EDGAR J. SOLOMON, Peoria, Ill., assignor to Avery Company, Peoria, Ill., a Corporation of Illinois. Filed Jan. 25, 1919. Serial No. 273,103. 7 Claims. (Cl. 213—67.)

5. In a coupler of the character described, in combination, a draw-bar having a longitudinal recess in one end thereof, a coupler bar movable bodily longitudinally and laterally and having a hooked-end normally lying across the recess in said bar, means to hold the coupler bar in



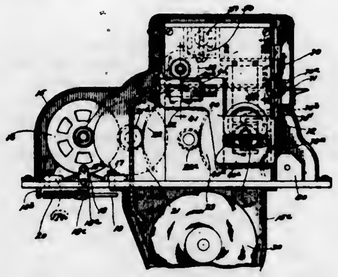
predetermined paths during movement including a yielding device normally pressing laterally upon said coupler bar.

1,391,423. SYNCHRONIZING MECHANISM. FRANK R. SOMMERMEYER, Spring Lake, Mich. Filed May 2, 1918. Serial No. 232,003. 4 Claims. (Cl. 74—34.)



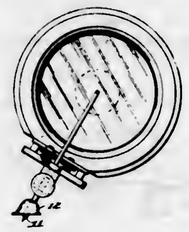
1. In combination with a driven shaft, a member rotatable on the shaft, a member rotatable with the shaft, the two members being in geared relation, a friction wheel carried by the second member through rotation of which the two members are caused to rotate at different speeds, means for causing the friction wheel to turn in one direction or the other during rotation of the driven shaft to advance or retard the speed of rotation of the first member relative to the second member.

1,391,424. TICKET-MACHINE. EDWARD E. SPENGLER, Chicago, Ill. Filed July 6, 1917. Serial No. 178,893. 16 Claims. (Cl. 101—227.)



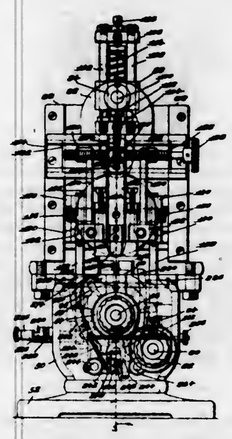
1. In a machine of the class described, a ticket printing member, a ticket punching member, means to supply paper to said members, actuating means for said members and said means, said actuating means comprising a motor element, and means to slide said motor element, bodily into and out of operation with respect to said members and feeding means.

1,391,425. PHONOGRAPH-NEEDLE AND RESONATOR THEREFOR. RUDOLPH STEINERT, New Haven, Conn. Filed Oct. 25, 1919. Serial No. 333,286. 7 Claims. (Cl. 274—38.)



1. In a device of the class described, the combination of a hollow, substantially dome-shaped member; and a needle passing through the top of and traversing said member in a direction inclined to the perpendicular.

1,391,426. MACHINE FOR PREPARING SOLES. WILLIAM C. STEWART, Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed July 3, 1916. Serial No. 107,290. 13 Claims. (Cl. 33—4.)



1. A machine for preparing insoles, having, in combination, a sole marking device, a sole end gage for positioning the sole with relation to the marking device mechanism to move the end gage for positioning different sizes of soles, and means to adjust said mechanism to cause the marking device to mark the sole for different styles of sole heels.

1,391,427. CIGARETTE. NATHAN SULZBERGER, New York, N. Y. Filed Sept. 21, 1920. Serial No. 411,850. 5 Claims. (Cl. 131—52.)

1. A cigarette having a wrapper of asbestos which retains its shape during smoking, and which can be smoked without discoloration of the wrapper, said asbestos wrapper being substantially free from carbonaceous material.

5. A cigarette having a wrapper of asbestos paper which retains its shape during smoking and which can be smoked without discoloration of the wrapper, said asbestos wrapper being made of paper containing organic matter and having the organic matter removed therefrom by a glowing operation in the presence of an oxidizing



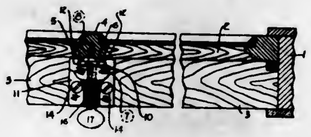
agent, the said wrapper being porous, due to the removal of the organic matter therefrom, and containing a small amount of an oxidizing agent.

1,391,428. ARTICLE OF MANUFACTURE. GEORGE SYKES, Penryn, Calif. Filed Oct. 16, 1918. Serial No. 258,330. 2 Claims. (Cl. 46—37.)



1. An article of manufacture, comprising a system of groups of spherical objects attached to form a combined article, each object being so disposed that it has a contactual relation with at least four others in a group of which it forms a part.

1,391,429. SASH-FASTENER. WILLIAM M. TAPLIN, St. Louis, Mo., assignor of one-half to Charles Schroeder, St. Louis, Mo. Filed Feb. 7, 1921. Serial No. 443,205. 1 Claim. (Cl. 292—251.)



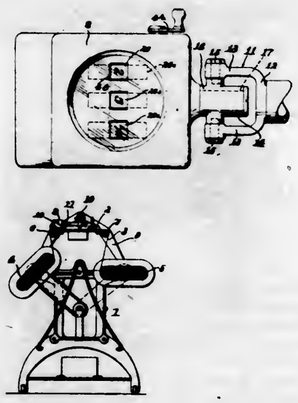
The improved sash-fastener, comprising a clamping-bracket having integral opposite jaws with a spacing-lug-passage between themselves, and there being a locking-plate space between said jaws and the adjacent inner end of said bracket; means for securing said bracket to the meeting-rail of a sash; a vertical sliding locking-plate provided on its back with a series of spacing lugs, there being tapered perforations through the latter and through said plate, the said lugs being arranged to act as spacers to hold said plate a distance from the vertical sash-bar to which it is attached, and thereby permit said lugs to pass up and down in the said spacing-lug-passage between said opposite jaws of said clamping-bracket; screws for securing the said plate to the sash; and a thumb-screw threaded horizontally through the body of said clamping-bracket, the inner end of said thumb-screw being attenuated, to engage said locking-plate and force the same into contact with said opposite jaws of said clamping-bracket, and lock said plate in the space between said jaws and the body of the clamping-bracket.

1,391,430. FOUNTAIN-PEN. MILTON C. TAYLOR, Chicago, Ill., assignor, by mesne assignments, to The Wahl Company, Wilmington, Del., a Corporation of Delaware. Filed June 25, 1917. Serial No. 176,793. 5 Claims. (Cl. 120—46.)



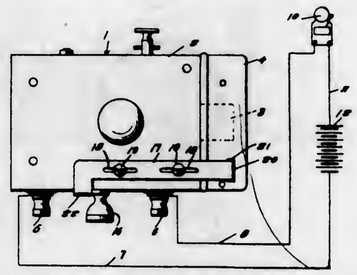
3. In a fountain pen, the combination of a casing having a hole therein, a plate having a hole therein, a lever pivoted to said plate, and a straight pin seperate from the pivot of the lever and plate inserted through the hole in said casing and said plate to thereby locate said plate in said casing.

1,391,431. MEASURING-MACHINE ATTACHMENT FOR CLOTH-WINDING MACHINES. DOUGLAS TURNER, St. Louis, Mo., assignor to The Measuregraph Company, St. Louis, Mo., a Corporation of Missouri. Filed Aug. 11, 1919. Serial No. 316,542. 4 Claims. (Cl. 33—129.)



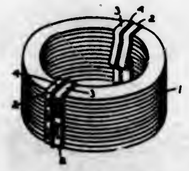
1. In a cloth winding machine, the combination of a frame, a roller supported by said frame, means for drawing the cloth past the said roller, a measuring machine having indicating mechanism and having a measuring roller lying adjacent to the face of the first named roller and transmitting a part of the weight of the machine to said first named roller, said driving roller operating to actuate the indicating mechanism when the cloth is pulled between the said rollers, a head having two forks supported on said frame, a knuckle pivotally supported between said forks, and a swivel connection between said knuckle and said machine.

1,391,432. CIRCUIT-CLOSER FOR LOCKS. AUGUST F. W. VIEHWEGER, Hoboken, N. J., assignor of one-half to Pauline Kronstein, Jersey City, N. J. Filed Sept. 10, 1919. Serial No. 322,848. 3 Claims. (Cl. 200—54.)



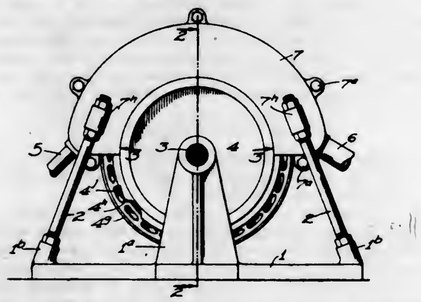
1. A circuit closer comprising a lock casing having a circuit closing member and a keeper provided with a slot, a plate slidably mounted on the casing, means formed on one end of the plate for engagement with the circuit closing member and means formed on the other end of said plate and adapted to extend into the slot of the keeper.

1,391,433. UNIT PACKAGE. GUSTAF A. WALLIN, Scotch Plains, N. J., assignor to A. Kimball Company, New York, N. Y., a Corporation of New York. Filed Jan. 6, 1919. Serial No. 269,739. 1 Claim. (Cl. 206—46.)



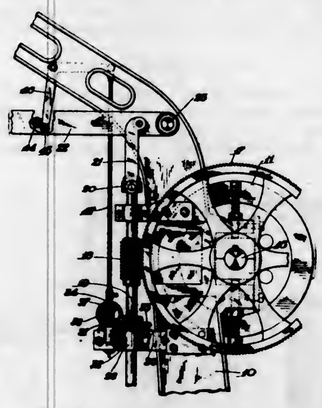
A unit package comprising a plurality of superimposed flat rings secured together by a plurality of flat binding strips bent transversely therearound, comprising plies of paper presenting a surface to receive identifying indicia and having a flexible non-resilient member therebetween, capable of a permanent set and of sufficient rigidity to retain said rings firmly in superimposed position and having hooked interengaging end portions lying closely adjacent the inner walls of said superimposed rings whereby lateral displacement thereof is prevented.

1,391,434. TURBINE. JOHN T. WAUGH, East San Diego, Calif. Filed June 15, 1920. Serial No. 389,200. 5 Claims. (Cl. 253—48.)



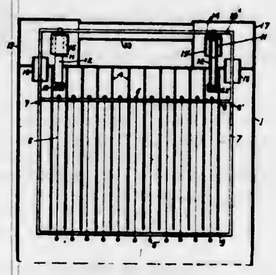
1. A turbine including, a revoluble member provided with a face in the middle of its periphery concentric with the axis of said revoluble member and with oppositely disposed faces at an angle thereto and provided with extended seal portions at opposite sides of each of said faces forming three independent grooves, each groove providing with a series of pockets therein and a housing provided with faces adapted to fill the grooves in said revoluble member and with notches to receive the seal portions and a plurality of ports connecting with a fluid pressure tank and communicating with the separate series of pockets in said revoluble member consecutively.

1,391,435. LET-OFF MECHANISM. ALBERT BERNARD WEISSENBORN, Appleton, Wis., assignor of one-half to Appleton Wire Works, Appleton, Wis. Filed July 16, 1918. Serial No. 245,170. 13 Claims. (Cl. 139—59.)



1. In a loom, a warp beam, a tension lever having connection therewith for turning same backwardly, and means actuated by the play of the tension lever for varying the connection between the tension lever and the warp beam to produce a let off.

1,391,436. MEANS FOR SUPPORTING AND INSULATING HIGH-TENSION ELECTRODES IN ELECTRICAL PRECIPITATION APPARATUS. HARRY V. WELCH, Los Angeles, Calif., assignor to International Precipitation Company, Los Angeles, Calif., a Corporation of California. Filed Jan. 27, 1919. Serial No. 273,829. 8 Claims. (Cl. 183—7.)



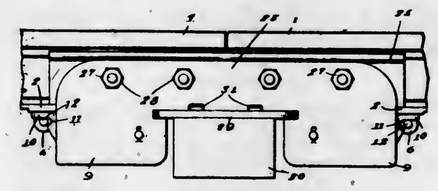
1. An insulator comprising a hollow body of insulating material provided at its lower end with means for admitting clean gas thereto and with outlet means at its upper end and a hood surrounding the insulator and spaced therefrom, said outlet means opening into the space within said hood for passing clean gas into said space.

1,391,437. KETTLE-DRUM. ADOLPH F. WIEDOEFT, Los Angeles, Calif. Filed Jan. 20, 1920. Serial No. 352,786. 6 Claims. (Cl. 84—419.)



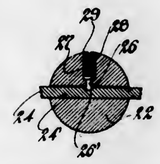
1. The combination with a drum, of tensioning devices arranged around the drum body and engaging the tensioning head ring; and means for simultaneously actuating all of the tensioning devices to control the tension of the drum head, which means includes worm wheels associated with the tension devices, a worm shaft engaging each worm wheel and flexible connections between each worm shaft.

1,391,438. RAIL-JOINT. ARTHUR J. WILKINS, Bristow, Va. Filed Mar. 5, 1920. Serial No. 363,476. 7 Claims. (Cl. 238—200.



1. Two rail ends having depending lugs, a rocking cradle below each lug composed of members pivotally supported beyond the ends of the lug and having portions that have a contacting engagement with the opposite ends of the lugs.

1,391,439. MIXER. NORA WILLIAMS, Spokane, Wash. Filed Aug. 23, 1920. Serial No. 405,377. 1 Claim. (Cl. 259—99.)

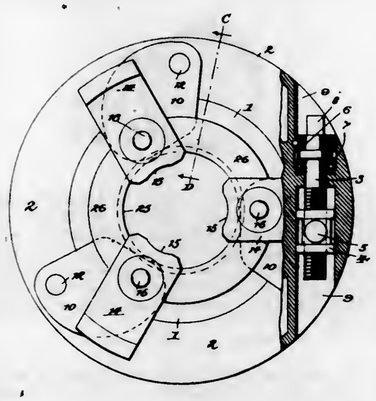


The combination with a rotatable spindle and its shank having fixed dasher blades, of removable blades engaged in sockets in said shank and provided with notches, studs in said shank engaging said notches, springs for said studs, and screw plugs for retaining said springs in sockets in the shank.

1,391,440. CHUCK. GEORGE WILLIAMSON, Oldham, England. Filed Jan. 13, 1917. Serial No. 142,210. 2 Claims. (Cl. 279—34.)

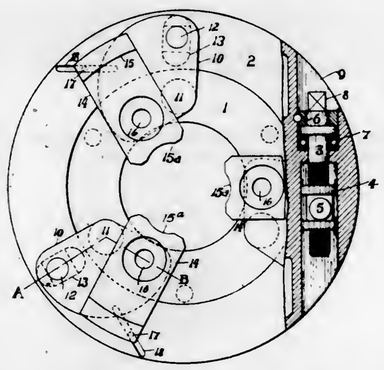
1. In a device for the purposes mentioned, the combination of a chuck body, a revoluble ring mounted thereon; carrier members pivoted to the front of the ring, work (or tool) engaging or work centering jaws mounted on the carriers, a central tubular member provided with an outside flange and freely mounted in the bore of the chuck

body, and recesses in the outside flange of the said tubular member, in which the said jaws are mounted, whereby



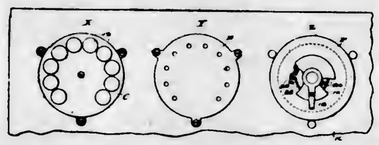
the turning of the ring will adjust the jaws with relation to the axis of the chuck, and also turn the tubular member so as to keep the jaws in the radial position.

1,391,441. CHUCK. GEORGE WILLIAMSON, Oldham, England. Original application filed Jan. 13, 1917, Serial No. 142,210. Divided and this application filed Mar. 6, 1920. Serial No. 363,793. 2 Claims. (Cl. 279—34.)



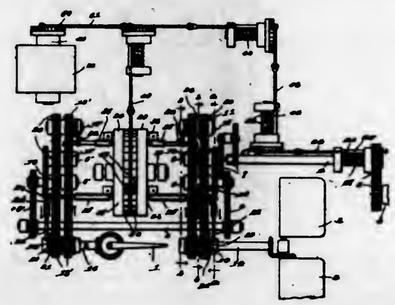
1. In a device for the purposes mentioned, the combination of a chuck body, a revoluble ring mounted thereon, carrier members mounted on pivot pins secured to the front of the chuck body, work or tool engaging or work centering jaws mounted on the carriers, means for so coupling the carriers to the ring that the turning of the ring will oscillate the carriers and adjust the jaws with relation to each other, and to the axis of the chuck body, and means for keeping the jaws radial, such means comprising projecting pins engaging slots so arranged in connection with the ring that the outer end of the slots advance toward the pins when the ring is turned one way and retreat from the pins when the ring is turned the other way.

1,391,442. CALL-SENDING DEVICE. ALBERT ANDERSEN, Chicago, Ill., assignor to Automatic Electric Company, Chicago, Ill., a Corporation of Illinois. Filed Aug. 8, 1914. Serial No. 855,826. 38 Claims. (Cl. 179—90.)



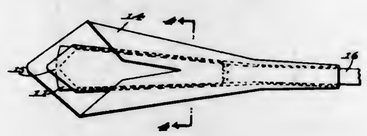
1. A call-sending device comprising a plurality of impulse transmitters, a single controlling mechanism for successively controlling the operation of said trasnmitters, said transmitters operating thereafter to transmit impulses.

1,391,443. AEROPLANE. CHARLOTTE ARNESEN, Portland, Oreg., assignor of one-fifth to Carl L. Oberg and Ingeborg A. Oberg, Portland, Oreg. Filed June 26, 1919. Serial No. 306,881. 7 Claims. (Cl. 244—1.)



1. The combination with a steering mechanism of a movable body, of power driven means adapted to be connected with said mechanism but normally disconnected therefrom, said means including wheels and chains, said chains having spaces at intervals for disconnecting them from the wheels, means for moving the chains to move them into engagement with the wheels again and adjustable setting means for controlling the actuation of the last mentioned means.

1,391,444. NECKTIE-PRESSING BOARD. JUOZAPAS ATKOCAITIS, Chicago, Ill. Filed May 7, 1920. Serial No. 379,641. 3 Claims. (Cl. 223—19.)



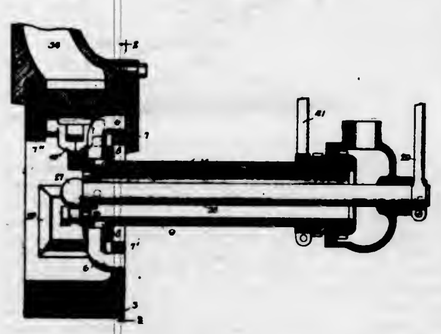
1. A tie stretching and pressing device comprising a pair of wings, one larger than the other, prongs on each of said wings, the larger wing adapted to support the larger end of a tie and its prongs adapted to engage the lining of said larger end, the shorter wing adapted to support the smaller end of the tie and its prongs to engage the lining of said smaller end and clamping means for clamping the tie to said wings.

1,391,445. RESILIENT TRACTION-WHEEL. JOHN BADUMLE, Milwaukee, Wis. Filed Aug. 8, 1919. Serial No. 316,265. 3 Claims. (Cl. 152—29.)



3. A wheel for vehicles comprising two spaced resilient disks provided with notches in their peripheries, conical rings supported by the disks, and provided with pins which engage the notches in the disks, a cushion tire resting between the said rings, and means for holding the disks against lateral displacement, other than as road pressure upon the tire may flex the disks about such holding means.

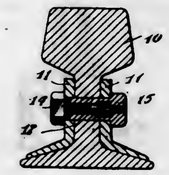
1,391,446. FLUID-PRESSURE ENGINE. WILLIAM E. BAKER, Rock Island, Ill. Filed Mar. 5, 1920. Serial No. 363,537. 30 Claims. (Cl. 121—59.)



1. A distributing valve for fluid pressure engines comprising a valve body in the general form of a divided ring and adapted to receive fluid under pressure therein and having outlet ports, and means engaged with the ends of said body and adapted to be operated by the fluid within the body for automatically adjusting said body to compensate for wear and to prevent tendency of the body to expand under pressure of the fluid within the body.

1,391,447. BOLT-LOCK. GEORGE BARON, Montreal, Quebec, Canada. Filed Dec. 4, 1920. Serial No. 428,321. 1 Claim. (Cl. 151—31.)

The combination with a bolt including a head and a threaded shank, said shank being split at the end thereof, said bolt being reduced to weaken the same at the inner end of said split portion, and to form oppositely disposed shoulders, a sleeve threaded upon said bolt, a head provided upon said sleeve, said sleeve being enlarged adjacent the head forming shoulders, and means for spreading the end of the bolt at the weakened portion when the latter is threaded within the sleeve for forcing the shoulders of the bolt behind the shoulders of the sleeve, as and for the purposes set forth.



1,391,448. BEDSTEAD. JOSEPH BASILE, New York, N. Y., assignor, by direct and mesne assignments, of one-half to Greenpoint Metallic Bed Company, Brooklyn, N. Y., a Firm composed of David Frank, John Trounstine, and William Lies, and one-half to Joseph Turk Manufacturing Co., Bradley, Ill., a Corporation of Illinois. Filed Mar. 21, 1921. Serial No. 453,947. 4 Claims. (Cl. 5—4.)



4. A bedstead comprising head and foot frames and a main mattress supporting frame consisting of side rails and end rails having at their ends downwardly extending members secured to said side rails, said head and foot frames having corner posts and upper and lower members secured to said posts, the lower members being recessed to receive the lower ends of said downwardly extending members of said end rails and the upper members being offset from the sides of the posts and recessed to receive the end portions of said end rails adjacent to the inner edges of said downwardly extending members thereof.

1,391,449. WHITE GOLD. DAVID BELAIS and ALFRED R. BONDY, New York, N. Y., said Bondy assignor to said Belais. Filed Oct. 24, 1919. Serial No. 333,067. 4 Claims. (Cl. 75—1.)

1. As a composition of matter, a white gold alloy composed of a major part of gold, lesser proportions of nickel and zinc, and a minute quantity of platinum adapted to make the alloy sufficiently ductile to be drawn into seamless tubing.

1,391,450. VALVE AND VALVE-SEAT. JOSEPH C. BEVELLE and JOSEPH J. SMITH, El Paso, Tex. Filed Jan. 30, 1920. Serial No. 355,233. 3 Claims. (Cl. 251—158.)

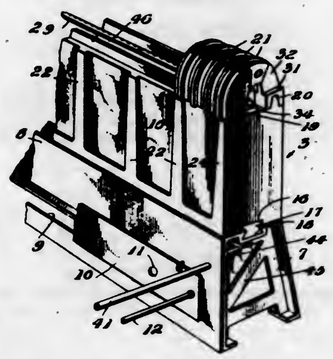
2. A valve and seat therefor, each constructed of a composition metal consisting of 86.055 parts iron, .30

parts carbon, .20 parts silicon, .40 parts manganese, .020 parts sulfur, .025 parts phosphorus, and 13.00 parts



chrome properly mixed and formed into a homogeneous mass.

1,391,451. HEATING-GENERATING PLANT. WILLIAM THOMAS BIDWELL, Atlanta, Ga. Filed Mar. 15, 1920. Serial No. 365,916. 5 Claims. (Cl. 110—59.)



2. A furnace bridge including supporting means provided with upwardly opening dove-tailed channels, a hollow bridge body carried by the supporting means and having downwardly opening dove-tailed channels, and double dove-tailed blocks fitted in said channels and functioning to lock the bridge body to the supporting means while permitting expansion and contraction of the bridge body relative to the supporting means.

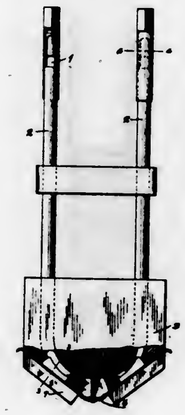
1,391,452. SUPPLEMENTARY HANDLE FOR TOOLS. WILLIAM W. BOOTH, Toledo, Ohio. Filed June 1, 1920. Serial No. 385,560. 5 Claims. (Cl. 145—61.)



1. A supplementary handle for a tool provided with a coaxial terminally bulged grip, said handle embodying a transverse bar, and a grip engaging ferrule to mount the bar on the grip.

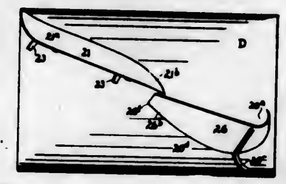
1,391,453. MAGAZINE-LOADER. BRUCE F. BOWLSBY, Brampton, N. D. Filed Dec. 6, 1920. Serial No. 428,845. 2 Claims. (Cl. 42—87.)

1. A magazine loader comprising a frame, parallel feed cylinders having curved lower ends provided with apertures and supported by said frame, said cylinders adapted to deliver cartridges in a substantially horizontal position,



and control slides having openings for registry with the apertures.

1,391,454. MIXING-MACHINE. JOHN W. BRABANT, La Crosse, Wis. Filed July 3, 1917. Serial No. 178,498. 7 Claims. (Cl. 83—73.)



1. In a mixing machine, the combination of a supporting frame, a horizontal mixing drum rotatively mounted thereon and having centrally placed apertures in the respective ends for receiving and discharging material, means for rotating the drum, and means within the drum for mixing material therein, comprising a plurality of blades secured to the horizontal wall of the drum, each having a forward longitudinally curved portion adjacent the receiving aperture adapted to give quick impetus to the material which it contacts, in a longitudinal direction, a succeeding portion of less curve adapted to relatively restrict the movement of the material, and an inner longitudinally depending discharge portion adapted to permit of quickened delivery therefrom, and means for discharging material from the drum.

1,391,455. TALKING-MACHINE. JOHN FREDERICK BROMMER, New York, N. Y. Filed May 24, 1920. Serial No. 383,711. 52 Claims. (Cl. 274—10.)

3. In a talking machine, a lower turn table member, an upper turn table member hinged thereto, and means for tilting the upper turn table member to discharge a record laterally by gravity therefrom.

14. In a talking machine, a turn table, a record supply and intermittently acting elevating means for bringing successive records into position to be fed laterally by gravity onto the turn table.

48. In a talking machine, a turn table, a source of record supply, means for feeding records therefrom to the turn

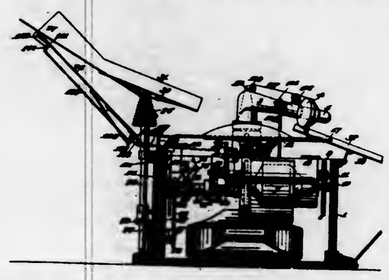
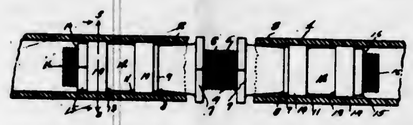


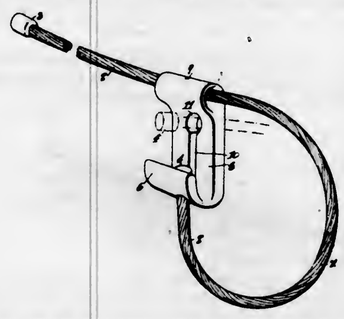
table and means operable by the exhaustion of the records from the record supply to stop the turn table.

1,391,456. PIPE-COUPLING. JACOB LEWIS BROSCHART, Trenton, Mo. Filed July 25, 1919, Serial No. 313,267. Renewed Mar. 22, 1921. Serial No. 454,416. 3 Claims. (Cl. 285—162.)



1. In an emergency coupling, the combination with the adjacent ends of a broken pipe, of a tubular pipe section exteriorly threaded and telescoping the adjacent ends in spaced relation to their interiors, a holding member on each end of the pipe section, gaskets on the ends of the tubular pipe section inside of the holding members, jamming sleeves threaded on the tubular member and substantially centrally of said member and forming means for compressing and expanding the gaskets into engagement with the interior wall of the pipe ends and apertures in the ends of the tubular members and adjacent the gaskets, whereby the interior pressure within the pipe line may additionally expand the gaskets.

1,391,457. WIRE-ROPE CHOKER-SLING. JOHN A. BUCKLEY and JOSEPH NADEAU, Port Alberni, British Columbia, Canada; said Nadeau assignor of one-half of his right to Reginald Mullally, Vancouver, British Columbia, Canada. Filed Apr. 20, 1921. Serial No. 462,911. 5 Claims. (Cl. 24—129.)



4. A means for connecting the end of a wire rope to the intermediate portion thereof to form a choker or sling, said means comprising the combination with a length of wire rope having an enlargement at one end, a member having an eye at one end through which the wire rope may freely pass and at the other end a hook the axis of the bend of which is substantially parallel to that of the eye, said member having a keyhole aperture extending from adjacent the eye to the bend of the hook, the smaller dimension of which aperture is adapted to receive the rope but will retain the enlargement at the end thereof, and the end adjacent the eye is enlarged to receive the enlargement.

1,391,458. FILE PROTECTOR AND SHEATH. AARON T. BUTLER, Linton, Ind. Filed Nov. 4, 1920. Serial No. 421,613. 2 Claims. (Cl. 29—78.)



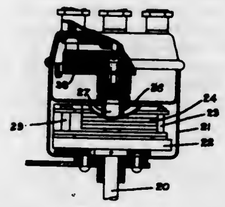
1. In a device of the character described, the combination with a file having a shank, a protector comprising a body portion having its longitudinal edges upturned to form flanges, one end of said body portion being upturned and bent inwardly to form a socket, the other end of said body being provided with upstanding lips in spaced relation to each other, said body portion being adapted to receive said file, said shank projecting between said lips, a handle portion having an opening to receive said shank, and means on said handle portion engageable with said body portion to maintain said body portion in position about said file.

1,391,459. TOOTHBRUSH. HYMAN F. CHAIKEN, Reading, Pa. Filed Jan. 21, 1921. Serial No. 438,839. 4 Claims. (Cl. 132—84.)



1. A tooth brush comprising a screw-threaded handle member, a screw-threaded brush head, both substantially as described, in combination with a container formed in two compartments, one of which is adapted to receive the handle member and the other the brush head, said handle member forming a closure for the compartment into which it enters, a receptacle containing a sterilizing agent for housing the brush head while in the compartment and a closure for both the receptacle and the compartment.

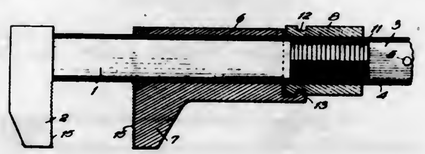
1,391,460. IGNITION SYSTEM. WILLIAM A. CHRYST, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company, a Corporation of Ohio. Filed September 7, 1917. Serial No. 190,150. 8 Claims. (Cl. 200—19.)



1. In a device of the character described, the combination with a rotatable cam carrying element having an expansible shank; of a cam supported on said shank;

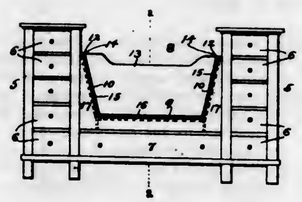
a member for expanding said shank; and means for forcing said expanding member into said shank, said means being capable of movement independently of said expanding member.

1,391,461. WRENCH. THOMAS F. CONNOR, Decorah, Iowa. Filed Feb. 3, 1919. Serial No. 274,768. 1 Claim. (Cl. 81—161.)



A device of the kind described, comprising a substantially flat shank having a cog rack formed upon one edge thereof and carrying upon one end a transversely extending jaw, in combination with a part slidably mounted upon said shank and extended on one side thereof, said last mentioned part having an open slot therein, an oscillating coöperating jaw mounted in said slot in the extended portion of the slidable member, a rotatable screw-threaded nut to control the movement of the slidable member upon the shank, said slidable member being provided with a rearward extension adapted to loosely engage in said rotatable nut, filler blocks arranged within the rotatable nut on the flat sides of the shank, said nut having formed therein a threadless part adapted to be brought into registry with said cog racks, whereby the nut, filler blocks and slidable member may be slid on said shank, and a stop limiting said sliding movement away from said fixed jaw.

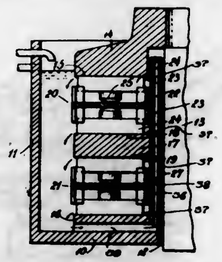
1,391,462. CABINET. HELEN ROBINSON CORNELISON, East Cleveland, Ohio. Filed May 17, 1919. Serial No. 297,872. 1 Claim. (Cl. 5—56.)



A cabinet comprising two laterally spaced end sections and being contoured between said sections to form an uncovered recess having a seat-forming bottom and upwardly diverging side walls, and a crib arranged in said recess and endwise between said end sections and having projecting members arranged at opposite ends respectively of the crib, the aforesaid walls terminating at their upper extremities in seats which are substantially in the same horizontal plane and form the tops of said walls, the crib having arms arranged wholly above said walls and resting on and removable from said seats, and said crib and its said arms being arranged wholly between the aforesaid end sections of the cabinet.

1,391,463. BEARING. RICHARD J. DEARBORN, Plandome, N. Y., assignor to Albert Kingsbury, Pittsburgh, Pa. Filed Nov. 13, 1917. Serial No. 201,761. 37 Claims. (Cl. 64—25.)

1. A thrust bearing comprising opposed bearing surfaces, and an interposed bearing structure including a rotatable carrier and bearing shoes engaging said opposed bearing surfaces and mounted on said carrier to



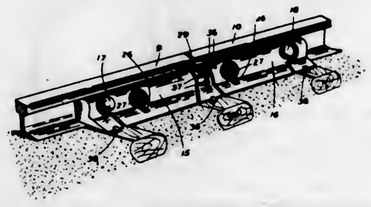
tilt both radially and circumferentially with respect to the axis of the bearing.

1,391,464. DRAINAGE-TUBE. GEORGE J. DEGENHART, Springfield, Ohio. Filed Nov. 8, 1920. Serial No. 422,564. 7 Claims. (Cl. 27—24.)



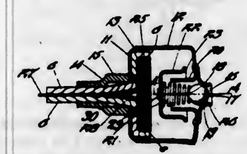
1. A drainage device comprising a tube for insertion in a blood vessel, the outer end of said tube having a closure and a discharge neck spaced inwardly from said closure, a vessel extender slidable in and beyond said tube and having an operating rod extending through said closure, and a valve slidable in said tube around said rod for closing said neck, said valve having an operating stem also passing slidably through said closure.

1,391,465. RAILWAY-RAIL JOINT. JOHN DEMETER, Stratton, Ontario, Canada. Filed June 11, 1921. Serial No. 476,849. 3 Claims. (Cl. 238—260.)



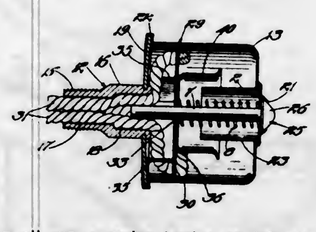
1. A means for connecting rails, said means comprising fish plates positioned oppositely on each side of the said rails, pins through the said fish plates and said rails, an enlarged head on each of the said pins, a lug projecting from the said head and engaging with an opening configurated in one of the fish plates, the said enlarged head and projecting lug adapted to prevent displacement of the said pins, portions removed from the opposite sides of the said pins, the said hingedly mounted members adapted to engage with the said pins and to secure the said pins in position.

1,391,466. OIL-CUP. STEPHEN I. FEKETE, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed Jan. 20, 1920. Serial No. 352,809. 12 Claims. (Cl. 184—89.)



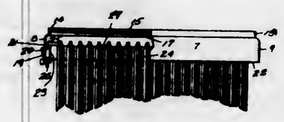
9. In an oil cup, a casing having closed ends except for opposite and centrally disposed inlet and outlet openings in opposite ends, a dish-shaped screen, wicking between the screen and the casing and a wire secured to the screen and passing in to the oil passage of the part to be lubricated.

1,391,467. OIL-CUP. STEPHEN I. FEKETE, Detroit, Mich., assignor to Essex Motors, Detroit, Mich., a Corporation of Michigan. Filed July 7, 1920. Serial No. 394,448. 9 Claims. (Cl. 184—64.)



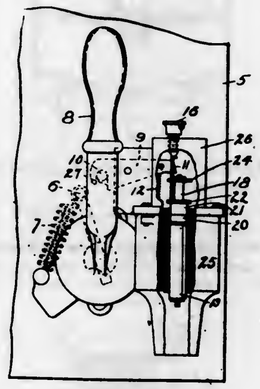
5. In an oil cup, a casing having an inlet and outlet opening, an inwardly extending oil introduction tube surrounding the inlet opening, a valve adapted to close the inlet opening, wicking in the casing extending into the outlet opening, a loose wicking retaining member, a baffle, and a valve spring, one end of which acts on the valve and the other end on the wicking retaining member and the baffle to hold said members in position.

1,391,468. RADIATOR-HOOD. ELISHA C. FREEZE, St. Louis, Mo. Filed Sept. 29, 1920. Serial No. 413,601. 3 Claims. (Cl. 237—79.)



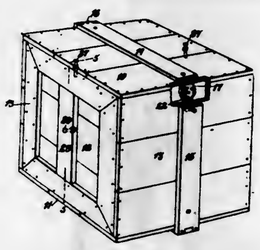
1. A radiator hood having four upwardly converging walls, a removable top provided with flanges embracing the upper edges of said converging walls, an air straining and dust collecting member carried by said removable top and a water reservoir located on the inside of said walls and extending completely around the interior of the hood at its bottom edge.

1,391,469. ELECTROMAGNETIC TRIP MECHANISM. BENJAMIN E. GETCHELL, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Co., Plainville, Conn., a Corporation of Connecticut. Filed Dec. 6, 1919. Serial No. 343,066. 4 Claims. (Cl. 200—109.)



1. In an electro-magnetic trip device, a coil, a vertically movable core consisting of a main body, a plunger rod, an auxiliary core slidable on said rod, means for limiting the vertical descent of the auxiliary core and a trip member operated by said plunger rod when the voltage falls below a predetermined point.

1,391,470. WOODEN SHIPPING-CASE. ABRAHAM H. GODKEVITCH, New York, N. Y. Filed Mar. 31, 1921. Serial No. 457,202. 5 Claims. (Cl. 217—56.)

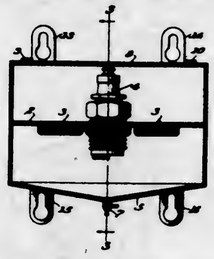


1. A shipping case having bars extending transversely of the top, bottom and two opposite vertical walls upon the exterior thereof, a fastening device upon the interior of the case and connecting said bars together and including interengaging parts automatically locking to prevent removal of any one of said walls after the closing of the case.

1,391,471. SPARK-PLUG CLEANER. JOSEPH T. GOMEZ, Goldfield, Nev. Filed July 27, 1920. Serial No. 399,350. 7 Claims. (Cl. 206—16.)

1. A spark-plug cleaner comprising a receptacle provided with a plurality of apertures adapted to receive

spark plugs, means for maintaining the lower surface of the cleaning medium at an angle to the horizontal to facilitate the draining of the cleaning medium and means for draining the receptacle.

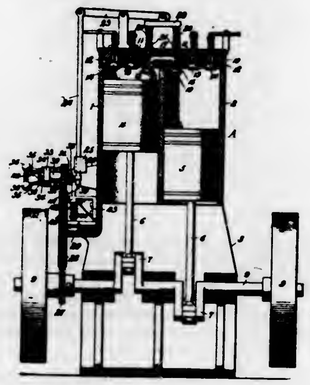


1,391,472. VEHICLE-WHEEL RIM. MARION WILLIAM GRIGSBY, East Peoria, Ill. Filed May 18, 1918. Serial No. 235,371. 3 Claims. (Cl. 152—21.)



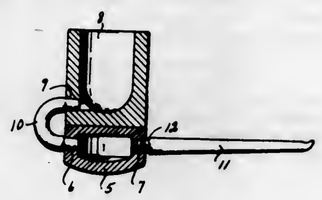
1. The combination with a wheel felly, of a two-part rim of which one part has a tire engaging flange, and also a portion extending partly across the outer surface of the felly as a felly band and terminating in a contact face, said contact face and felly edge being beveled and providing a first broad inclined surface extending from an intermediate point in the side face of the felly to the peripheral face of said felly band, the other rim part having a second tire engaging flange and a second inward beveled surface complementary to said first broad inclined surface, and means for removably securing said second rim part in position.

1,391,473. MULTICYLINDER FOUR-CYCLE EXPLOSION-ENGINE. CLINTON ADOLPH SUEL HANSON, Barron, Wis. Filed May 2, 1919. Serial No. 294,184. 8 Claims. (Cl. 123—52.)



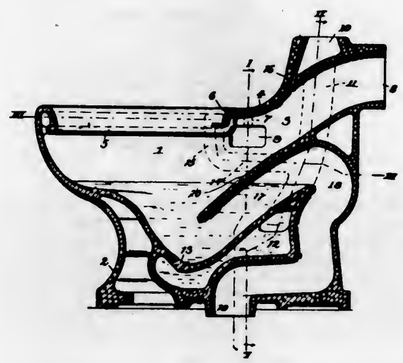
1. A multi-cylinder explosion engine having means for establishing communication between the interiors of the cylinders, and a hit-and-miss governor for opening said means of communication during the governing period.

1,391,474. SMOKING-PIPE. HARRY HESS, Sparks, Nev. Filed May 19, 1920. Serial No. 382,557. 2 Claims. (Cl. 131—12.)



2. An attachment for a conventional form of smoking pipe comprising a receptacle adapted to engage the bottom of a bowl of a smoking pipe, a goose-neck conduit adapted to connect the bowl to the receptacle, said goose-neck being disposed exteriorly of the bowl and the receptacle, and a pipe stem carried by and communicating with the receptacle.

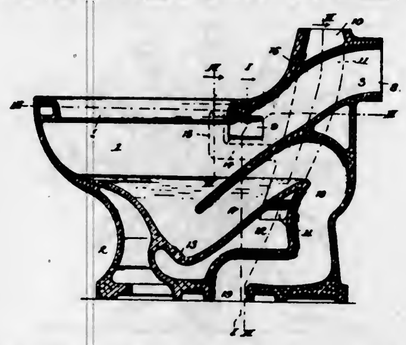
1,391,475. WATER-CLOSET. WINFIELD E. HINSDALE, Trenton, N. J., assignor to Trenton Potteries Company, Trenton, N. J., a Corporation of New Jersey. Filed July 17, 1917. Serial No. 181,069. 11 Claims. (Cl. 4—21.)



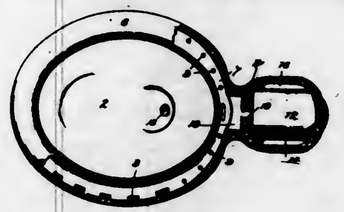
2. In a water-closet, the combination of a bowl; and a vent duct extending rearwardly therefrom, said duct having a pocket opening toward the vent passage and accessible from the interior of the bowl formed in each of the side walls thereof for the reception of the inner ends of the seat hinge posts and the nuts employed in securing the same in place.

1,391,476. WATER-CLOSET. WINFIELD E. HINSDALE, Trenton, N. J. Filed June 4, 1920. Serial No. 386,505. 8 Claims. (Cl. 4—21.)

1. In a water closet, the combination of a bowl; a flushing rim therefor; a vent duct opening into the bowl underneath the rim; and a pocket opening toward the vent passage and reached from the interior of the bowl through the duct, formed in each of the side walls of the duct; the upper walls of each pocket having an opening therein for the reception of the seat hinge post.



1,391,477. WATER-CLOSET. WINFIELD E. HINSDALE and WILLIAM H. HALL, Trenton, N. J. Filed June 4, 1920. Serial No. 386,506. 14 Claims. (Cl. 4—22.)



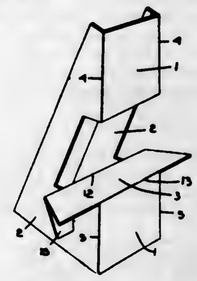
1. In a water closet, the combination of a bowl having a flushing rim, the channel wherein is of small cross area at the rear portion thereof as compared to the forward portion, said rear portion opening into a chamber formed in the closet body, the front wall of which is coincident with the front wall of a portion of the rim at the rear of the bowl and the rear wall of which chamber has a control opening formed therein which is in communication with the water supply of the closet.

1,391,478. SAFETY-RAZOR. OTTO KAMPFE, Bellmore, N. Y., assignor of one-half to Henry C. Walker, New York, N. Y. Filed Mar. 26, 1920. Serial No. 368,878. 14 Claims. (Cl. 30—12.)



1. In a safety razor, a frame, a handle therefor, a guard mounted in the frame, a tension device connected to the guard and extending from one edge of the guard and beneath the same toward the opposite edge, and means operated through the handle for engaging the tension device to yieldingly hold the guard in position in the frame for use.

1,391,479. EASEL. MANOOG KAZANJIAN, Charlestown, Mass. Filed May 24, 1921. Serial No. 472,097. 2 Claims. (Cl. 45—57.)



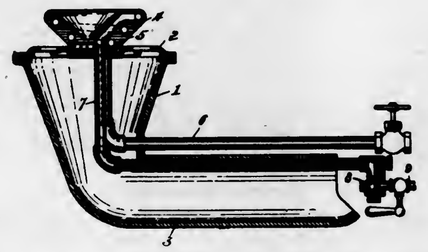
1. An easel made from a single piece of sheet material folded along parallel lines to form a central body and a supporting wing at each side of the body, a portion being cut from the body and each wing, said portion being divided transversely one part thereof constituting a rest which is folded against the edges of the cuts made in the wings, said portion projecting beyond each wing, and the other part thereof being bent downwardly and having slots to receive the wings.

1,391,480. PIN-FASTENER. NILS KILDAHL, Horton, Mont. Filed Sept. 10, 1918. Serial No. 253,443. 1 Claim. (Cl. 24—153.)



In a paper fastener, a pin having a disk-shaped head the flat side of the disk being substantially coplanar with the side of the pin but of lesser thickness than the diameter of the pin.

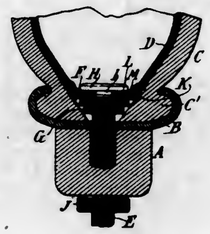
1,391,481. OIL-BURNER. ANDREW J. KNIGHT, Toledo, Ohio. Filed Nov. 11, 1920. Serial No. 423,218. 1 Claim. (Cl. 158—65.)



A burner of the class described, comprising a burner body having gas discharge openings in its top and having a hollow laterally extending neck portion open at its

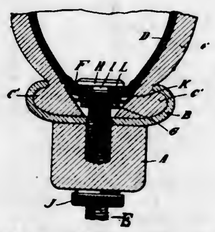
outer end, a conical deflector mounted on the burner top and having a gas generating passage therein in communication at one end with a source of hydrocarbon oil supply, a pipe leading from the other end of the generating passage through the burner and neck thereof adjacent to its outer end, an ejector nozzle connected to the outer end of the pipe in position to discharge gas therefrom into the burner neck, and a valve controlled pipe opening communication between the nozzle and a source of gas supply.

1,391,482. SPREADER FOR PNEUMATIC TIRES. HENRY P. KRAFT, Ridgewood, N. J. Filed June 15, 1917, Serial No. 174,865. Renewed Sept. 7, 1920. Serial No. 408,772. 5 Claims. (Cl. 152—20.)



5. A tire spreader of sheet metal having a flattened central opening for the valve and formed around said opening with an annular projection forming a boss on one side and a recess on the other, and provided with an internal flange surrounding said opening with flat faces on opposite sides, and a reinforcing ring formed with flat faces on opposite sides of its opening and with bevel curved faces, and said inner flange turned outwardly at its curved portions to engage said bevel faces and hold the ring in said recess.

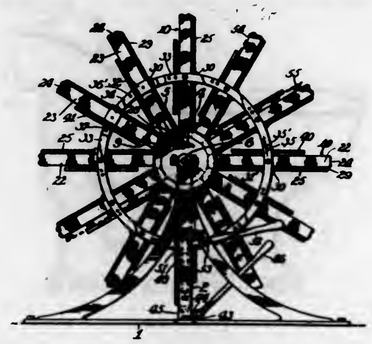
1,391,483. SPREADER FOR PNEUMATIC TIRES. HENRY P. KRAFT, Ridgewood, N. J. Original application filed June 15, 1917, Serial No. 174,865. Renewed Sept. 7, 1920, Serial No. 408,772. Divided and this application filed Nov. 15, 1920. Serial No. 424,094. 3 Claims. (Cl. 152—20.)



3. A tire spreader of sheet metal having a flattened central opening for the valve and formed around said opening with an annular projection forming a boss on one side and a recess on the other, and having an integral internal flange surrounding said opening with flat faces on opposite sides, and a reinforcing ring formed with flat faces on opposite sides of its opening and with bevel curved faces, and said inner flange turned outwardly at its curved portions to engage said bevel faces and hold the ring in said recess.

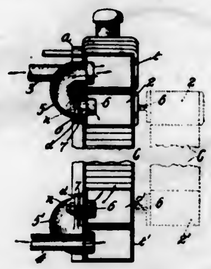
1,391,484. DISPLAY-RACK FOR BED MATTRESSES AND SPRINGS. OTTO R. LINDSTAEDT, Indianapolis, Ind. Filed Jan. 26, 1920. Serial No. 354,121. 4 Claims. (Cl. 211—20.)

1. A display rack including two standards, a shell rotatively supported by the standards, bed frames rigidly secured to the shell and provided with clamps arranged opposite to and beyond the front of the frame, two annu-



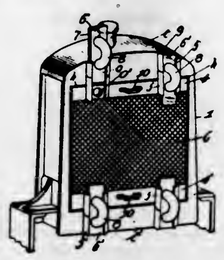
lar braces secured to all the bed frames, and means for securing the clamps to the two annular braces.

1,391,485. AUTOMOBILE - RADIATOR. CHARLES A. MARIEN, St. Louis, Mo. Filed Dec. 8, 1919. Serial No. 343,289. 1 Claim. (Cl. 257—125.)



In a radiator, an outer frame provided with water-circulating compartments or tanks, a demountable core inserted into the frame from one side of said frame, water circulating pipes carried by the tanks on the opposite side and extending opposite the opening of the frame for arresting the inward movement of the core into the frame, and means for securing the free terminals of said pipes to the core.

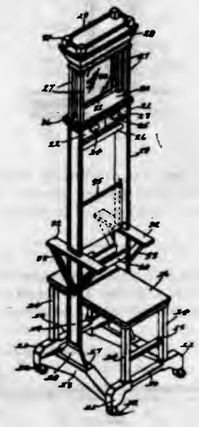
1,391,486. AUTOMOBILE - RADIATOR. CHARLES A. MARIEN, St. Louis, Mo. Filed Dec. 8, 1919. Serial No. 343,290. 8 Claims. (Cl. 257—125.)



1. In a radiator, an outer frame provided with suitable compartments or tanks for the circulation of a cooling medium, a detachable core inserted in said frame, and

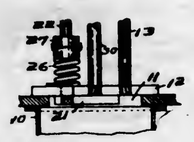
means detachable from said frame and core and spanning the joint between the same for fastening the core to the frame and simultaneously establishing communication between the core and circulating tanks of the frame.

1,391,487. COMBINATION-CABINET. JOSEPH MATLEVICH, Washington Park, Ill. Filed Feb. 26, 1921. Serial No. 447,979. 1 Claim. (Cl. 155—43.)



A stand of the character described, comprising a base on rollers, a plurality of vertical standards supported on said base, arm rests on two of said standards, a platform constituting two seats on the other of said standards, a platform constituting a plate normally held between the above mentioned two of the standards to constitute a back rest for persons occupying said seats and adapted to rest in its horizontal position on said arm rests to form a table, and means supported by and between said two standards to form a holder for various articles of personal wear and toilet articles.

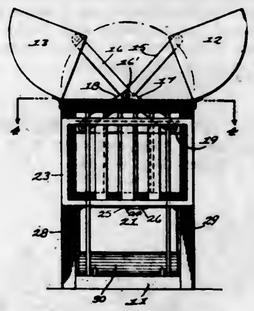
1,391,488. PAINT MEASURING AND FILLING MACHINE. HOWARD C. MILLER, Toledo, Ohio. Filed May 29, 1920. Serial No. 385,166. 3 Claims. (Cl. 226—96.)



1. In a paint filling machine, a vat having a plurality of openings extending through the bottom of the vat, a plurality of measuring nozzles located beneath the openings, plates for covering the openings, each of the plates having an opening, a second plate for opening and closing the last named opening to permit a small amount of paint to pass through the first named plate, means for lifting the first named plate to allow paint to pass into the nozzle.

1,391,489. ANIMAL AND BIRD TRAP. WOJCIECH NAWRACAJ and WAWZENIEC JAROSZ, Hamtramck, Mich. Filed Feb. 19, 1921. Serial No. 446,407. 1 Claim. (Cl. 43—58.)

In a combined bird and quadruped animal trap, a compartmented cage, a bi-partite cover for said cage, a movable bottom plate for the upper compartment, means connecting said bottom plate with the parts of said cover,



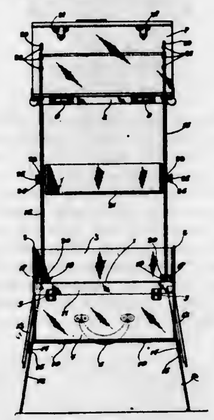
adapted to close the cover over a bird alighting on said plate, and means in the lower compartment for entrapping quadruped animals.

1,391,490. HORSESHOE-CALK. JOHAN OLSEN NYGAARD, Christiania, Norway. Filed Mar. 23, 1920. Serial No. 368,183. 1 Claim. (Cl. 168—43.)



A horseshoe having a cavity formed therein, a calk formed of two parts each having a dovetailed tenon to conform to the walls of the cavity, the adjacent opposing surfaces of the two parts being perpendicular to the direction of movement, and a wedge interposed between said surfaces, the force of said wedge acting in the longitudinal direction and parallel to the direction of movement, said wedge having lateral projections extending beyond the sides of the calk to facilitate extraction of the wedge.

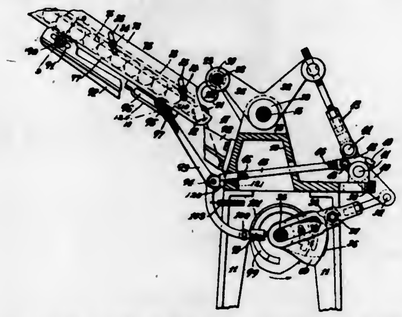
1,391,491. MUSIC-CASE. EDWARD L. O'DONNELL, St. Louis, Mo. Filed Apr. 18, 1921. Serial No. 462,232. 1 Claim. (Cl. 45—121.)



In a device of the character described, a support, a pair of lazy tongs constituting extendible supports piv-

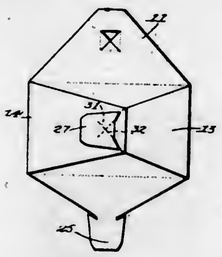
otally connected with the first-named support, means for holding the extendible supports in extended position, a hook in connection with the upper end of each of said supports, and a music rest having a series of holes near each end thereof for receiving said hooks whereby the music rest may be supported in different selected positions at the upper ends of said supports.

1,391,492. AUTOMATIC THREADING-MACHINE. HERMAN OSSWALD, Richmond Hill, N. Y. Filed Nov. 29, 1919. Serial No. 341,421. 17 Claims. (Cl. 153—72.)



1. In a cap threading machine in combination a pair of coöperating dies, a pivoted receptacle adapted to receive a plurality of caps to be threaded, means for operating said receptacle on its pivot to position a cap upon one of the said dies and means for operating the latter.

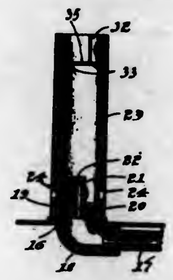
1,391,493. SAFETY-ENVELOP. GREGORY PACHKO, Detroit, Mich. Filed June 16, 1920. Serial No. 389,316. 2 Claims. (Cl. 229—84.)



1. In an envelop of the character described, the combination with a single blank of paper having a body portion, of a top, lower and side flaps, tabs on one of said side flaps and the lower flap, the material of the top and one of the side flaps being slitted along diagonal lines to form sets of 4 triangles each, one of said triangles of each set being open by removal of the material and adapted to allow the passing of the respective tab of the side and lower flaps, and slits separating the tabs from the body portion and adapted to be engaged by the bases of the open triangles, after the passage of the tabs through said triangular openings.

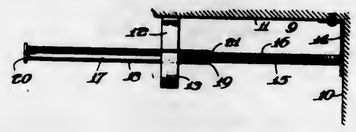
1,391,494. BURNER. HERMAN A. PAQUETTE, Chicago, Ill. Original application filed June 10, 1920, Serial No. 387,821. Divided and this application filed Aug. 5, 1920. Serial No. 401,409. 2 Claims. (Cl. 158—111.)

1. A gas burner comprising a gas discharge nipple, a tube surrounding and spaced from the orifice of said nipple and having air inlet ports in its lower portion, and a flame control device consisting of a split tube frictionally



mounted within and longitudinally adjustable of said first-mentioned tube and having lateral elements extending radially thereof to partially interrupt the bore.

1,391,495. BRACKET. EARL PARSONS, Philadelphia, Pa. Filed Sept. 18, 1919, Serial No. 324,410. Renewed Aug. 20, 1921. Serial No. 493,918. 3 Claims. (Cl. 211—15.)



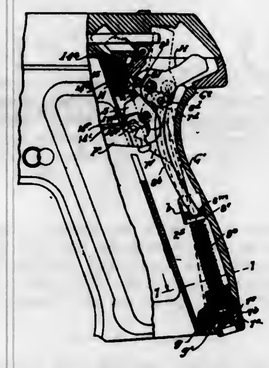
1. A device of the character described including two supporting members, one slidable within the other, the inner member having a longitudinal channel, the outer member having a lip at its end depending into said channel, said lip having its upper surface inclined from a position above the top to a position below the top of said channel.

1,391,496. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Original application filed July 30, 1915, Serial No. 42,774. Renewed July 17, 1919, Serial No. 311,689. Divided and this application filed Dec. 17, 1919. Serial No. 345,550. 22 Claims. (Cl. 42—3.)



1. In a firearm, in combination, a frame of said firearm, a slide movable rearwardly on said frame, a breechblock movable with the slide and movable rearwardly prior to rearward movement of the slide and engaging the slide for transmitting rearward movement thereto, means coöperative between the breechblock and said frame for retarding rearward movement of the breechblock after transmission of rearward movement to the slide by said engagement therewith, and means for connecting the breechblock and slide and coacting therewith for providing retardation of the breechblock relative to the slide while the slide is moved rearwardly.

1,391,497. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed Dec. 13, 1919. Serial No. 344,676. 15 Claims. (Cl. 42—3.)



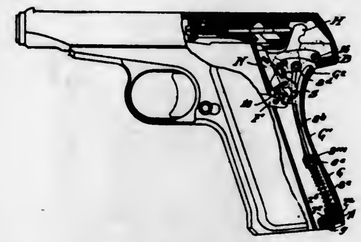
1. In a firearm, in combination, a frame comprising a grip-stock, a firing member, a grip-operable member engageable at the upper end thereof with said frame, a spring, a plug insertible in the grip-stock from the butt end thereof through the butt end and providing a seat for said spring, a rod pivotally attached at one end to the firing member, a member movable in the longitudinal line of the grip-stock by said spring and providing a seat for the other end of said rod, and a pin insertible in the grip-stock and engaging transversely the grip-operable member and said plug for providing pivotal attachment of the lower end of the grip-operable member to the grip-stock.

1,391,498. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Filed Dec. 13, 1919. Serial No. 344,677. 15 Claims. (Cl. 42—3.)



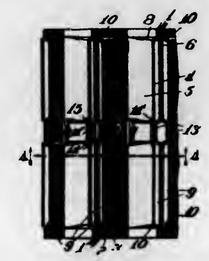
1. In a firearm, in combination, a sliding breech-action of said firearm, a frame of said firearm; a firing member movable to firing position and to fired position, sear means engageable with said firing member, slidable means engageable with said sliding breechaction, and provided with disconnecting means, means for moving said slidable means and disconnecting means to position for locking said sliding breechaction, and locking said sear means and firing member in firing position, a grip-compressible member engageable, when in position of safety, with said frame and engageable with said slidable means to block said slidable means and disconnecting means in said locking position, and releasable by grip-compression from both said engagements, spring means for moving said firing member to fired position, and trigger-means engageable with disconnecting means for moving said sear means, when said grip-compressible member is grip-compressed, to release said firing member for movement to fired position and thereby to move said sear means for moving said slidable means and disconnecting means from said locking position.

1,391,499. FIREARM. JOHN D. PEDERSEN, Jackson, Wyo. Original application filed July 30, 1915, Serial No. 42,774. Renewed July 17, 1919, Serial No. 311,689. Divided and this application filed Dec. 26, 1919. Serial No. 347,436. 23 Claims. (Cl. 42—3.)



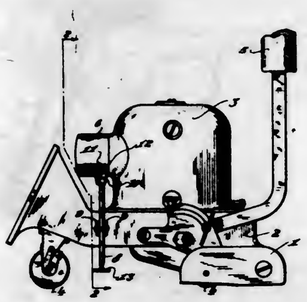
1. In a firearm, in combination, a frame of said firearm, a firing member movable to firing position and to fired position, sear means engageable with said firing member, rockable means, means for moving said rockable means in direction to lock said sear means and firing member in firing position, means for moving said rockable means in direction reverse to the first mentioned direction when said firing member is moved to fired position, grip-compressible means engageable with said frame and with said rockable means when in position of safety, to block said rockable means in said locking position, and releasable from both said engagements by grip-compression, means for moving said firing member to fired position, trigger means normally in forward position and by pull thereon movable rearwardly, when said grip-compressible means is grip-compressed, to move said sear means for releasing said firing member for movement to fired position, and means for preventing, after a first pull on said trigger means, movement of said sear means by a second pull on said trigger means before movement of said trigger means to said normal forward position.

1,391,500. AUTOMOBILE-RADIATOR. WILLIAM PHILLIPS, Chicago, Ill. Filed Oct. 2, 1918. Serial No. 256,506. 2 Claims. (Cl. 257—130.)



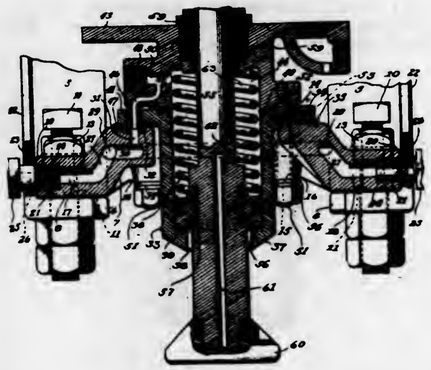
1. An automobile radiator comprising a plurality of units adapted for nesting arrangement to form hexagonal air inlet tubes and vertical water cooling passages, and including in said units angular projections of similar configuration in each unit, said projections also being adapted for nesting in each other and adapted to form obstructions in the vertical water cooling passages thereby separating said water cooling passages into a plurality of vertical compartments, the projections being equipped with recesses supplementing each other to form circular passageways leading from one of said compartments to another.

1,391,501. SWITCH-ACTUATING DEVICE FOR ELECTRIC CARPET-SWEEPERS. JOHN R. VANDER PUTTEN, New Philadelphia, Ohio, assignor to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio, a Corporation of Ohio. Filed Sept. 14, 1917. Serial No. 191,486. 4 Claims. (Cl. 15—60.)



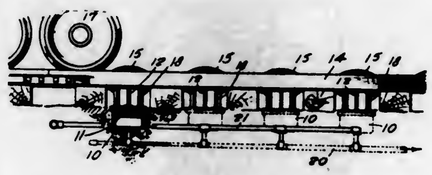
1. In an electric carpet sweeper of the character described, a switch controlling the motor of said sweeper, a chain operatively connected to said switch to open or close the switch and a foot lever pivotally mounted upon the casing of the sweeper and comprising a substantially vertical long arm provided with an upper bifurcated end to receive the end of the chain and a substantially horizontal short foot treadle located in proximity to the floor.

1,391,502. SUPPORT FOR CONTACT-SHOES. CHARLES H. QUARLES, Charlottesville, Va., assignor, by mesne assignments, to American Automatic Train Control Corporation, a Corporation of Maryland. Filed Nov. 17, 1919. Serial No. 338,645. 5 Claims. (Cl. 246—190.)



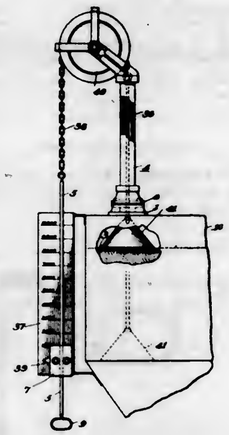
2. In a contact shoe for railway vehicles the combination with a cylinder, of a contact plunger extending through the cylinder and having a passage therein which opens into the cylinder; a base for supporting the cylinder said base having air passages that extend therein around the cylinder which passages are closed against atmospheric communication but are in communication with the cylinder and a connection for supplying air from the train line of an aire-brake system on the vehicle to said passages and cylinder.

1,391,503. PUMP. JAMES W. REGISTER, Jasper, Fla. Filed Nov. 2, 1920. Serial No. 421,387. 2 Claims. (Cl. 103—51.)



1. The combination with an apertured railroad rail of a cylinder mounted beneath the rail, a piston mounted within the cylinder, a piston rod extending above the cylinder and within the aperture of the rail, and a spring ramp secured to the piston rod and located within the aperture.

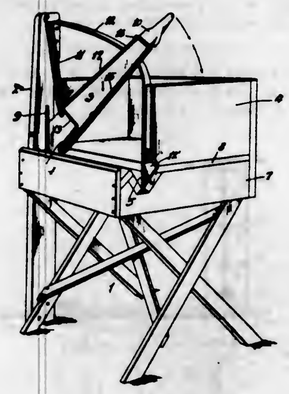
1,391,504. TELLTALE DEVICE FOR CLOSED BINS. WILLIAM ORAN RENKIN, Oradell, N. J., assignor to Quigley Furnace Specialties Co. Inc., a Corporation of New York. Filed Apr. 23, 1920. Serial No. 375,979. 2 Claims. (Cl. 33—125.)



1. In combination with a closed bin for holding pulverized material or the like, a block movable vertically in said bin, an exterior vertical scale graduated to indicate the units of bin contents which may have been removed to lower the level of said bin to any given point, and a pointer movable over said scale and connected to the before mentioned block, the parts being so proportioned, suspended and weighted that the pointer and its connections overbalance the block and its connections, whereby the block is normally held in its uppermost position on the level of the bin contents and the pointer at zero on the scale, when the bin is filled to the proper extent, but the block will fall to the level of the material in the partially emptied bin when the pointer is moved over the scale by an exterior force.

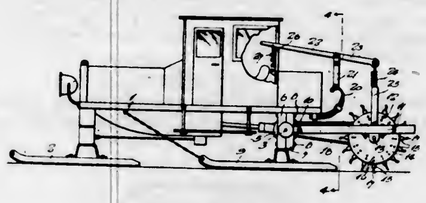
1,391,505. SEED-POTATO CUTTER. WILLIAM C. REYNOLDS, Remus, Mich. Filed Apr. 21, 1921. Serial No. 463,107. 5 Claims. (Cl. 146—7.)

1. A seed-potato cutter comprising a hopper having an open side, a trough extending along said open side to receive potatoes therefrom and having an opening through its bottom, a knife pivotally mounted at one end



of the trough and adapted to extend into the opening of the bottom of the same, and means for yieldably holding the knife in a raised position.

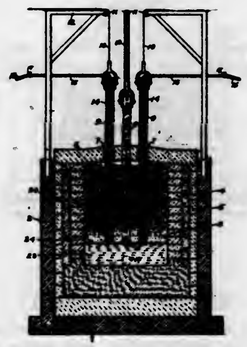
1,391,506. ICE-TRACTOR. JOHN H. RILEY, Menominee, Mich. Filed Aug. 16, 1920. Serial No. 403,885. 3 Claims. (Cl. 180—6.)



1. In an ice tractor, a portable main frame, a pair of vertically swinging frames extending rearwardly from said main frame, driving wheels mounted on said vertically swinging frames, driving means for said wheels, a pair of springs mounted on said main frame and a transverse member extending between said springs, a longitudinal lever fulcrumed on said transverse member and having lateral arms at its rear end, and lifting connections between said lateral arms and said vertically swinging frames.

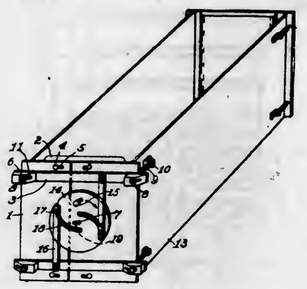
1,391,507. METHOD FOR THE PRODUCTION OF IRON AND STEEL. ELFEGO RIVEROLL, Los Angeles, Calif. Filed May 11, 1920. Serial No. 380,552. 4 Claims. (Cl. 204—63.)

1. The process which consists in subjecting iron sponge containing partially reduced iron compound to the heating action of an electrical current in such manner as to produce and maintain a body of melted metal and a body of slag above such metal, the electric current being maintained between said body of metal, and an electrode extending through said body of slag and directly over said body of metal and supplying reducing gas to the material below the surface of said body of slag and in the zone between said electrode and the body of metal



while so heated so as to cause reduction of the iron to metallic state, and melting of the reduced metal.

1,391,508. MOLD FOR CONCRETE BLOCKS. FRANK A. ROOSA, Orange township, Blackhawk county, Iowa, assignor of one-half to John T. Zeidler, St. Joseph, Mo. Filed Mar. 18, 1920. Serial No. 366,844. 3 Claims. (Cl. 25—121.)

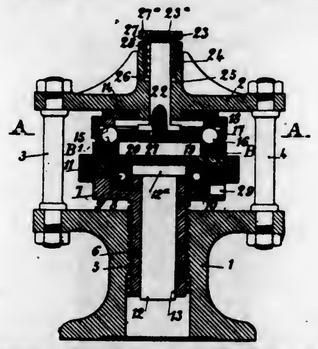


1. A mold, comprising spaced side-plates, end-plates positioned across the ends of and projecting laterally beyond the side-plates, longitudinally-slotted wedge-blocks movable laterally across the projecting parts of the end-plates, these projecting parts having orifices positioned in communication with said slots, headed pins traversing said slots and orifices with their heads riding on the outer slopes of said wedges, and tension springs connected to said side-plates and pins.

1,391,509. GAGING APPARATUS FOR THRUST-BEARING RINGS. LOUIS ROUANET, Ivry Port, France, assignor to Compagnie d'Applications Mecaniques, Paris, France. Filed Dec. 17, 1919. Serial No. 345,516. 5 Claims. (Cl. 33—178.)

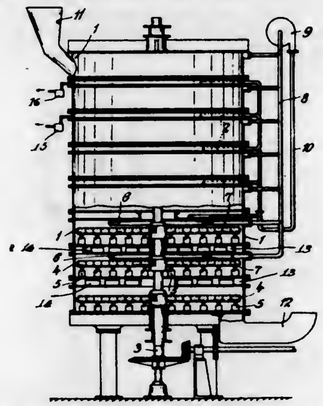
1. An apparatus for gaging the axial diameter of the raceways of thrut ball or roller bearings comprising in combination a stand upon which the ring to be inspected is adapted to be placed, a support adapted to be removably secured to the stand, a thrust member having a contacting surface secured on said support, tactile bodies, means for freely supporting said tactile bodies, means on the stand adapted to force the ring to be inspected toward the said thrust member whereby the tactile bodies are

pressed between the wall of the ring raceway and the said contacting surface, a conical member secured to said



thrust member and adapted to be pressed axially into contact with the tactile bodies, and means on the support for gaging the axial movement of said conical member.

1,391,510. APPARATUS FOR DRYING MATERIAL CONTAINING LIQUID. GUNNAR SCHJELDERUP, Christiansand, Norway. Filed Mar. 1, 1920. Serial No. 362,584. 3 Claims. (Cl. 34—23.)



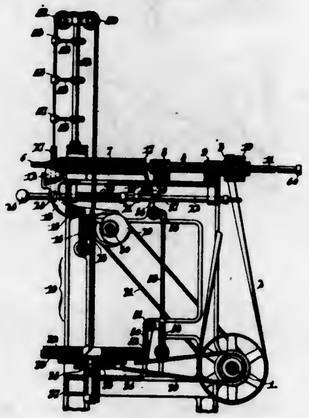
2. A drying apparatus comprising superposed drying chambers communicating alternately at the center and sides, a central shaft, scrapers thereon in the drying chambers, heating chambers interposed between the drying chambers, means to withdraw the vapors from the drying chambers, to compress them and to discharge them into the heating chambers connected in series.

1,391,511. AUTOMOBILE-HEADLIGHT GLASS. WILLIAM G. SCHNEIDER, St. Louis, Mo. Filed July 19, 1920. Serial No. 397,267. 2 Claims. (Cl. 240—48.4.)



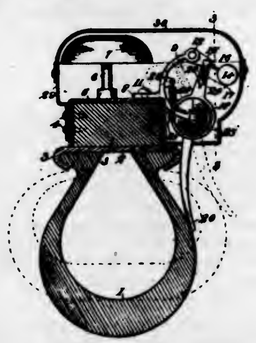
1. A headlight glass of the character described, comprising a glass plate having series of undulations over the entire surface of one side thereof, and having outwardly rounded, raised portions forming a spotted arrangement over the entire surface of the opposite side, the cross sectional width of the undulations being greater than the cross sectional width of the rounded raised portions, and the border of the glass being of less translucent character than the central portion of the glass.

1,391,512. TWISTING-MACHINE. WILLIAM SCHOLES, Philadelphia, Pa. Filed Nov. 8, 1916. Serial No. 130,129. 3 Claims. (Cl. 118—35.)



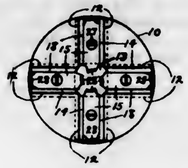
1. In a machine for forming flat ribbon into twine, the combination of stationary crushing eyelets, and means comprising a rotary winding spindle for drawing the ribbon from a supply roll with a twist and through the eyelets against their crushing resistance, so as to wind it in the form of compact twine.

1,391,513. TIRE-ALARM. OTTO FRED SCHROEDER, Santa Ana, Calif. Filed May 16, 1921. Serial No. 470,125. 5 Claims. (Cl. 116—34.)



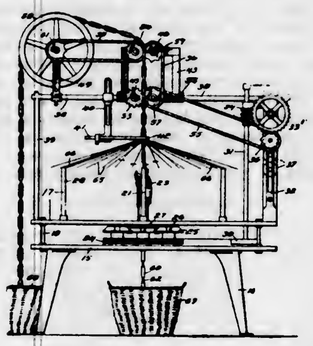
1. A tire alarm device comprising a base for attachment to a wheel, a bell, a bell clapper associated with the bell and fulcrumed for swinging movement to and from the bell, an oscillating shaft, a lever associated therewith and disposed to extend adjacent to the side wall of a vehicle tire, a part movable with the shaft transversely across the fulcrum of the clapper, and a spring affording the sole operating connection between said part and the bell clapper.

1,391,514. SCREW-THREAD-CUTTING DEVICE. THOMAS SHEHAN, Cleveland, Ohio. Filed Aug. 25, 1919. Serial No. 319,711. 2 Claims. (Cl. 10—121.)



2. In a device for cutting screw-threads, a cutter-head having a radially arranged slideway, a slide which engages said slideway and is provided at its rear side with a slideway extending transversely of the slide substantially at a right angle to the first-mentioned slideway and has a recess extending longitudinally of the slide forward of the second-mentioned slideway, a cutter engaging said recess, a screw securing the cutter to the slide, a block slidable endwise of the said second-mentioned slideway, and a shaft having bearing in the cutter-head at the rear side of the cutter-carrying slide and provided with a crank operatively connected with said block, the cutter having a recess which is spaced from the ends and formed at the rear side and extends longitudinally of the cutter and has its end walls overlapped by the slide, said slide having a screw-threaded hole extending rearwardly from the first-mentioned recess to the aforesaid second-mentioned slideway, and the aforesaid screw having its shank extending rearwardly from within the cutter and threaded into the slide at said threaded hole.

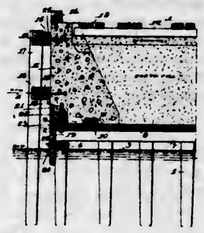
1,391,515. MACHINE FOR MAKING MANTLES. PAUL SINCLAIR, South Williamsport, Pa. Filed July 26, 1920. Serial No. 398,989. 2 Claims. (Cl. 28—4.)



1. In a machine of the class described, a base, a frame carried by said base and overlying the same, a series of separably connected forms, interchangeable take-up mechanisms adapted to be supported on said frame medially of said base for drawing said forms vertically of the latter, and means carried by said frame for drawing said forms laterally of the base after the operation of the take-up mechanism.

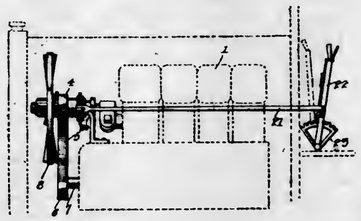
1,391,516. PIER CONSTRUCTION. JOSEPH E. SNELL, Newark, N. J., assignor to Henry Steers, Inc., New York, N. Y., a Corporation of New York. Filed Apr. 19, 1920. Serial No. 374,990. 7 Claims. (Cl. 61—48.)

1. A pier comprising a deck of inflammable material, inflammable supports for supporting the deck above water, and a pre-cast reinforced concrete curtain carried by and depending below the deck and below the water line,



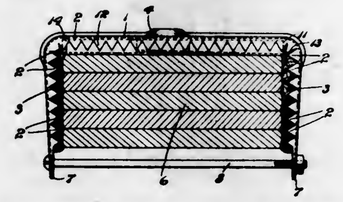
and means between the levels of high and low water for securing the curtain to the support.

1,391,517. FAN. LOUIS HERMAN SOHN, Huron, S. D. Filed June 16, 1920. Serial No. 389,448. 2 Claims. (Cl. 170—163.)



1. A fan including a rim and a hub of elongated formation, spokes rigidly connected to the rim and to the forward portion of the hub, blades having pivot elements connected to the rim and the hub, a collar slidably and rotatably mounted on said hub rearwardly of said blades, and having racks slidable on said hub, pinions mounted on said pivot elements and engaged by said racks, whereby the movement of the rack results in the rotation of said blade, a pulley surrounding the said hub and racks, and having radial pins connected to said hub, said collar being provided with a groove, and a lever having branches extending into said groove for moving said collar longitudinally on said hub, said radial pins constituting a stop element for limiting the forward movement of the racks and the turning of the blades.

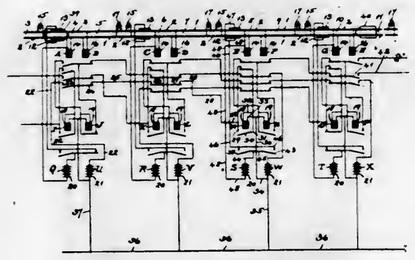
1,391,518. SPRING-OILER. ROY B. SOMERS, Zeeland, and THOMAS OLINGER, Holland, Mich., assignors to Federal Stamping Company, Holland, Mich., a Corporation of Michigan. Filed Oct. 27, 1919. Serial No. 333,673. 2 Claims. (Cl. 184—1.)



2. In combination with a leaf spring, two telescoping trough members of sheet metal located against the upper side of the leaf spring, each of said members having a downturned outer end to limit the telescoping movement

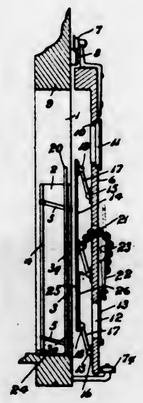
of the trough member when applied to the spring, a pad located in the trough member and turned downwardly at its ends to lie against the front and rear sides of the spring, and a sheet metal retaining member lying over and against the pad and serving to secure it in position on the spring, said retaining member having triangular shaped projections turned at right angles at each side edge thereof and bearing against the side edges of the pad, substantially as described.

1,391,519. SYSTEM FOR AUTOMATICALLY CONTROLLING THE MOVEMENT OF TRAINS. CHARLES Z. STEPHENS, Richmond, Va., assignor, by mesne assignments, to American Automatic Train Control Corporation, a Corporation of Maryland. Filed Dec. 20, 1918. Serial No. 267,684. 4 Claims. (Cl. 246—49.)



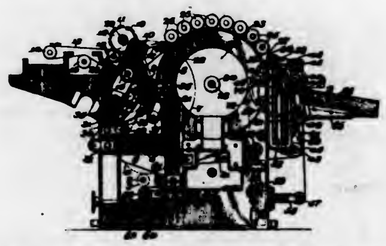
1. In a train control system the combination with the track rails provided at intervals with insulated joints and forming long and short insulated blocks, of a track relay for each block, means along the shorter blocks only for transmitting electrical energy to a control mechanism on a vehicle and means for supplying electrical energy to the transmitting means along the said shorter blocks said supplying means including two movable devices one of which is controlled by the approach of traffic in one direction and the other controlled by traffic in an opposite direction.

1,391,520. CAR-DOOR. GEORGE THOMPSON, Grand Rapids, Mich. Filed July 16, 1919. Serial No. 311,356. 4 Claims. (Cl. 20—27.)



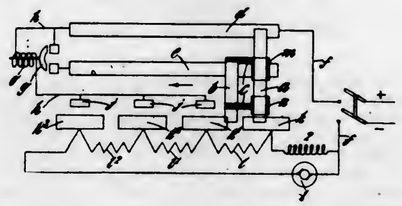
4. In combination, a car having a side opening therein, a door slidably mounted thereon for opening or closing the door opening, a vertically positioned plate attached to the rear side of the door and connected thereto so that it may be elevated against the rear side of the door or lowered and moved backward a distance into the opening in the car, means for moving the plate against the rear side of the door from without the door, and means automatically operable as the plate is lowered and moved backward for engaging the same and locking it against forward movement from direct horizontal pressure applied to its rear side, substantially as described.

1,391,521. IRONING-MACHINE. ISAAC F. WILLEY, Philadelphia, Pa. Filed June 10, 1918. Serial No. 239,126. 9 Claims. (Cl. 68—9.)



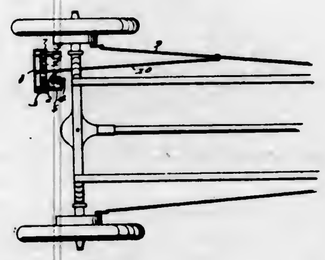
1. An ironing machine, which comprises in combination, a revoluble ironing drum, a plurality of ironing rolls of relatively small diameter opposed to the periphery of said drum at the upper portion of the machine, said juxtaposed small diameter ironing rolls being collocated in such close relationship to each other and to the upper periphery of said drum as to effect the feeding forwardly and continuous progression of a collar presented laterally to said rolls with its longitudinal axis in substantial parallelism to said rolls, a plurality of upper and lower continuous conveyer aprons which coöperate with each other and one of which is opposed to the periphery of said drum near the lower portion of the machine, means for driving said aprons in unison with said revoluble drum and said ironing rolls, means for the continuous delivery of the ironed collars to the conveyer apron opposed to said ironing drum, means for transferring the collars to and upon the lower coöperating conveyer apron, means for forming a loop in the upper rear portion of said upper apron, a gravity tension roll supported in said loop, means for adjusting said roll, means for forming a loop in the lower front portion of said lower apron, a lower front tension roll in said latter loop, and means for adjusting the tension of said lower front tension roll.

1,391,522. ELECTRIC CONTROLLER. RICHARD AMBERTON, London, England. Filed Mar. 3, 1920. Serial No. 362,947. 11 Claims. (Cl. 219—20.)



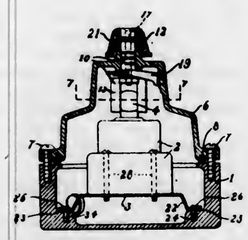
1. An electric controller comprising a plurality of contact plates, a plurality of contact studs, a plurality of resistance studs, resistances connected to said studs, a main contact arm, said contact arm being adapted to form electrical connection between one contact plate and the resistance studs, an auxiliary contact arm, said auxiliary contact arm forming electrical connection between a second contact plate, the resistance studs and the contact studs, a contactor adapted when operated to form electrical connection between the contact plates, and electrical means for operating said contactor, said electrical means being controlled by the auxiliary contact arm in such a manner that the contactor operates repeatedly and substantially performs each successive operation of cutting resistance in and out, and of varying the electrical connections.

1,391,523. AUTOMOBILE-SIGNAL. HUGH CHRISTOPHER ANDERSON, Detroit, Mich. Filed July 14, 1920. Serial No. 396,095. 1 Claim. (Cl. 116—49.)



A rear end signal for automobiles and the like comprising spaced brackets for attachment to a vehicle body, a pair of disks, a light penetrable indicator plate or shutter spanning said disks and secured to the periphery thereof, a shaft on which the disks are carried, the shaft being rotatably mounted in the brackets, a yoke connected with the shaft and spanning the brackets, and a link pivotally connected with the yoke and adapted for pivotal connection with the brake rod of the vehicle.

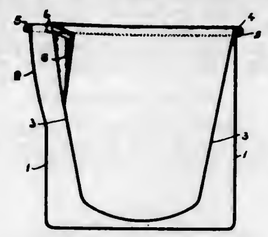
1,391,524. CAP FOR CONDUIT OUTLET-BOXES. CARL H. BISSELL, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a Corporation of New York. Filed Sept. 3, 1919. Serial No. 321,302. 14 Claims. (Cl. 200—172.)



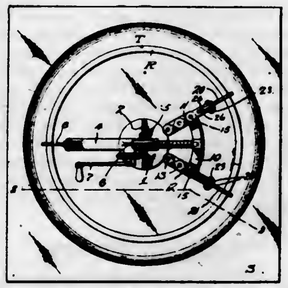
12. A switch operating member comprising a handle and a rotary motion transmitting element on which the handle is mounted, a rotary switch button engaging element, one of said elements being shiftable about its axis relatively to the other and the handle being shiftable relatively to the motion transmitting element, and means for holding the motion transmitting element and the button engaging element in their adjusted position, substantially as and for the purpose described.

1,391,525. SAUCEPAN AND LIKE COOKING AND HEATING APPLIANCES. THOMAS GUY BLOOD, Birmingham, England. Filed June 23, 1920. Serial No. 391,209. 2 Claims. (Cl. 53—1.)

1. A saucepan and like cooking and heating appliance comprising an outer vessel with an outwardly projecting vertical lip, and an inner vessel with an inwardly projecting lip situated opposite to the lip of the said outer vessel.

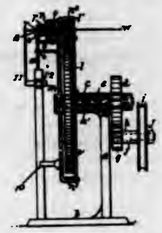


1,391,526. RIM EXPANDING AND CONTRACTING TOOL. LEONORE L. PARK and WILSON W. BYLES, St. Louis, Mo. Filed July 1, 1920. Serial No. 393,414. 3 Claims. (Cl. 157—1.)



1. A rim tool comprising a base, an arm extending radially from said base and provided with rim engaging means, said arm being fixed relative to said base, a screw shaft mounted in said base in the same plane as said arm and in alinement therewith, an arcuate-head mounted midway its ends on said shaft, two pivoted arms carried by said head and mounted to swing toward and away from each other, and rim gripping fingers pivoted on said pivoted arms to swing in a direction at right angles to that in which said arms swing.

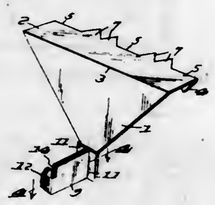
1,391,527. MACHINE FOR MAKING GLASS BEADS. WILLIAM F. CHASE, Peekskill, N. Y. Filed Apr. 19, 1920. Serial No. 374,846. 4 Claims. (Cl. 49—14.)



1. A machine for forming glass beads comprising a shaft bearing supported on a standard with a base, a hollow shaft in the bearing and a solid shaft to run in the hollow shaft, means to drive the hollow shaft, a spur gear wheel on the outer end of the hollow shaft, a disk frame on the solid shaft adjacent to the said spur gear wheel, a hollow spindle in the frame and a gear pinion on said

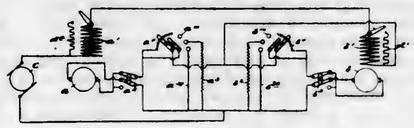
spindle engaging with the said spur wheel, a handle on the frame adjacent to said spindle comprising a die and cutting off lever, a post adjacent to the frame, fast to the base, for tripping the cutting off lever, a stop on the frame, fast to the base, for tripping the cutting off lever, a stop on the frame to contact with said post, and an adjustable gage in the top of said post.

1,391,528. WINDOW-SHADE BRACKET. RUFUS C. CRANFORD, De Land, Fla. Filed Feb. 11, 1919. Serial No. 276,257. 1 Claim. (Cl. 156—24.)



A device for the purpose indicated formed from a single blank of metal and consisting of a triangular body having a right-angularly disposed supporting flange at its upper edge, the said flange being formed with anchoring spurs at its edge, the body being formed with a depending extension at its vertex, the said extension having oppositely disposed laterally extending wings bent back on themselves with those portions adjacent their extremities lying against each other and formed with shade roller stud receiving sockets the connecting portions of the wings forming shade roller supports and being disposed in planes at right angles to the body.

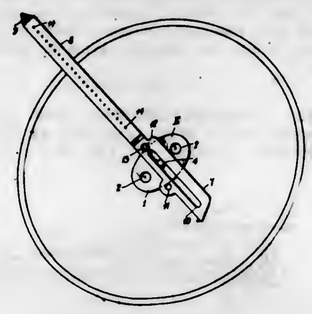
1,391,529. ELECTRICAL DRIVING. HENRY CROCHAT, Paris, France. Filed Aug. 17, 1916. Serial No. 115,479. 1 Claim. (Cl. 172—239.)



In a system for propelling a vehicle, an electric generator, driving means therefor, a pair of mechanically independent electric motors connected to driven means at the sides of the vehicle, the armatures of said motors being connected in parallel and the field windings of said motors being connected in series with each other and with their armatures, and a controller for the motors comprising means for independently shunting the field windings of the respective motors, means for introducing a resistance in the armature circuit of each motor and for increasing such resistance until the respective armature is cut out of the circuit, means for shunting the brushes of the armature thus cut out of the circuit by a resistance, means for diminishing the amount of such resistance, and means for reversing the current in the armature of the motor thus cut out.

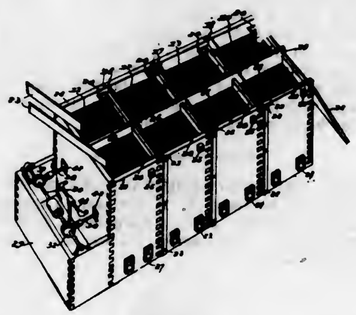
1,391,530. DRAFTING APPLIANCE OR EQUIPMENT. RAMÓN J. BUSTILLO Y DIEGO, Habana, Cuba. Filed July 1, 1919. Serial No. 308,031. 3 Claims. (Cl. 33—27.)

1. An educational device including, a plurality of templets having pattern edges of different configuration and each templet having a pin projecting from the upper surface thereof, a scriber arm adapted to be used separately and selectively with any one of said templets and having a longitudinal slot therein for engaging said pin,



and a pin fixed to said arm adapted to coöperate with said pattern edges for tracing the contour thereof on an amplified scale.

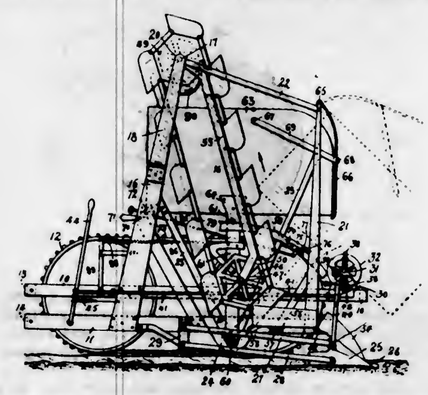
1,391,531. JIG. WILLIAM DORTON, Leadwood, Mo. Filed Aug. 19, 1919. Serial No. 318,458. 2 Claims. (Cl. 83—79.)



1. An apparatus for the purpose described having a series of consecutively available concentrate and middlings compartments provided with separating screens disposed adjacent the tops of said compartments and separated by transverse barriers of graduated heights, concentrate cups disposed at the upper edges of the barriers and above the planes of the screens, a feed launder and a tailing apron operatively disposed with reference to the concentrate and terminal middlings compartments, a bottom outlet hutch in each compartment, and agitating means arranged between pairs of adjacent compartments in a plane substantially intermediate between the planes of the concentrate cups and the outlet hutches.

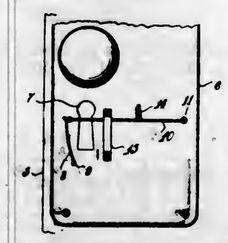
1,391,532. EXCAVATING-MACHINE. CHARLES A. DOUD, Underwood, Wyo. Filed Oct. 3, 1919. Serial No. 328,108. 6 Claims. (Cl. 37—24.)

1. In an apparatus of the class described, a frame adapted to support excavating and elevating devices, standards swinging upon said frame, a receptacle open at one end and attached to said standards in position to receive the material from said elevating device, the major portion of the receptacle being disposed between its support and open end, a closure for the open end of the receptacle and swingingly mounted upon said frame, means for swinging said closure into open position when the receptacle moves into discharging position, means applied to said standards for automatically returning the



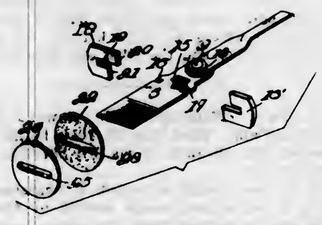
receptacles to receiving position when discharged, and a catch device operating to hold said receptacle in load receiving position.

1,391,533. KEY-HOLDER. REUBEN JOSEPH ECKSTEIN, Kitchener, Ontario, Canada. Filed Mar. 31, 1920, Serial No. 370,151. Renewed Aug. 1, 1921. Serial No. 489,356. 2 Claims. (Cl. 70—7.)



1. In combination with a door plate having a key opening of a latch pivotally connected at one end thereto to traverse the key opening, a keeper member limiting the motion of said latch, a tension means holding said latch so as to prevent a key from being taken out of a key opening in said plate and a means for holding said latch in inoperative position.

1,391,534. ELECTRIC FUSE. EDWARD H. ELLISON, Jamestown, N. Y., assignor to Monarch Refillable Fuse Co., Jamestown, N. Y., a Corporation of New York. Filed Jan. 2, 1919. Serial No. 269,187. 6 Claims. (Cl. 200—132.)



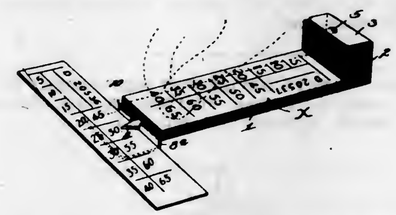
1. A fuse of the character described comprising an insulating casing, two knife blades, a removable fusible link connecting said blades, said knife blades having notches in the opposing edges thereof and separate, integral lugs projecting from the opposite faces thereof, a two part bridge straddling said knife blades, each part adapted to abut each of said lugs and to engage one of the notches in said blades, and means for closing the ends of the casing.

1,391,535. DENTAL IMPRESSION-TRAY. ALBERT MARCUS EPSTEIN, Elmira, N. Y. Filed Jan. 17, 1921. Serial No. 437,827. 1 Claim. (Cl. 32—6.)



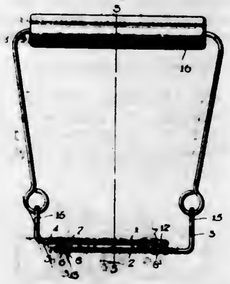
A dental tray formed of pulp material which becomes relatively rigid when dried and molded to shape with a rigid reinforcing member embedded within the pulp material, and a handle connected to the reinforcing member and projecting through the material of the tray and in advance of the same.

1,391,536. TICKET OR CHECK NOTCHING DEVICE. JAMES A. FELLOWS, Philadelphia, Pa., assignor to Globe Ticket Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed July 30, 1920. Serial No. 400,050. 5 Claims. (Cl. 211—37.)



1. In a device of the character described, a plate having an offset therein forming a support for a check and an abutment for the edge of a check on said support, and a tongue attached to said plate and extending through said offset and provided with a notch-forming point arranged opposite to said support.

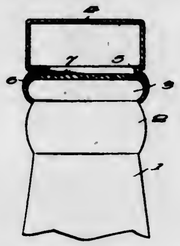
1,391,537. BOTTLE CARRIER AND SUPPORT. OSBORNE FITZSIMMONS, Chicago, Ill. Filed Oct. 2, 1920. Serial No. 414,184. 3 Claims. (Cl. 215—100.)



1. In a device of the class described, a split ring having a laterally extending arm at one end, a coöperating similarly shaped ring having its arm located diametrically opposite the first mentioned arm, a pair of spaced

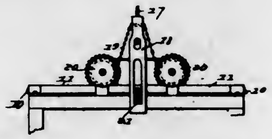
sleeves fixed to each of said rings one ring being slidably mounted in the sleeves of the other ring, and means whereby said arms are retained always at diametrically opposite points.

1,391,538. CAP-CLOSURE. WALTER C. FOELL, Waterbury, Conn. Filed Mar. 21, 1918. Serial No. 223,752. 1 Claim. (Cl. 215—46.)



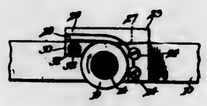
The combination with a bottle having an outwardly directed annular bead at its mouth and an annular enlargement next the bead, of a cap comprising a cylindrical body closed at the outer end and with an inwardly directed rib intermediate the ends, the portion of said cap between the rib and its open end adapted to be crimped into the space between the bead and the enlargement to lock the cap in position, the cap being detachable by pressure applied to the cap longitudinally of the bottle to force the rib over the bead and the crimped portion over the enlargement.

1,391,539. SAFETY DEVICE FOR MINE-CAGES. OSCAR GLENN, Butte, Mont. Filed Sept. 25, 1919. Serial No. 326,198. 2 Claims. (Cl. 187—82.)



1. A safety device for mine cars or cages having car carried bolts for engagement with stationary racks, spring actuated spindles having gears engaged with teeth on said bolts to impart rack engaging movement to the latter, drums carried by the spindles, a retaining chain reeled upon the drums and adapted when strained to impart bolt retracting movement to the spindles, and a cable and a movable head connected with the car supporting cable and engaged with said retaining chain for normally maintaining the latter under tension.

1,391,540. YARN-CLEANING DEVICE. WILLIAM E. GOYETTE, Philadelphia, Pa., assignor to John E. Garey, Elmira Heights, N. Y. Filed June 26, 1917, Serial No. 177,007. Renewed Feb. 14, 1921. Serial No. 445,012. 35 Claims. (Cl. 28—20.)



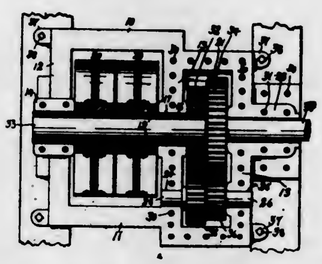
1. In a device of the class described, the combination of a moving yarn-cleaning element, and means for moving said element actuated by the yarn.

1,391,541. AUTOMOBILE-TIRE. JOHN AUDLEY GRANT, Atlanta, Ga. Filed Jan. 15, 1920. Serial No. 351,725. 1 Claim. (Cl. 152—10.)



In a tire, the combination of an outer casing, a pneumatic inner tube of substantially smaller cross sectional area than said casing arranged adjacent the bead thereof and in spaced relation to the inner walls of said casing, said inner tube having a sustaining filling of cotton, a removable envelop entirely inclosing said inner tube, said envelop including inner and outer canvas linings adapted to snugly fit the inner and outer circumferential walls of the tube and casing and provided with a sustaining and protecting cotton filling to yieldably sustain the casing and to provide a protecting guard for the inner tube, said lining members and filling being provided with a circumferential slit for the removal of the inner tibe, the ends of said slit abutting between the inner tube and the wall of the bead to provide an unbroken surface therebetween.

1,391,542. GEARING. OSCAR C. HAMEL, Peabody, Mass. Filed Aug. 4, 1920. Serial No. 401,122. 2 Claims. (Cl. 74—7.)

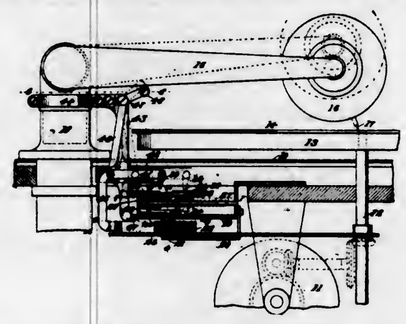


1. In an apparatus of the class described a supporting frame oblong in outline and including end members and an intermediate transverse member, said end members and intermediate members having shaft bearings in alinement longitudinally of the frame, an oil holding casing depending from the frame between the intermediate cross member and one of the end members, said bearings adapted to support shaft elements and gearing elements with the gearing elements operating constantly in the oil in the half casing, and drive pulleys carried by the shaft elements within the frame between the intermediate transverse member and the other end member.

1,391,543. PHONOGRAPH. EDWARD L. HOLMES, Berkeley, Calif. Filed July 26, 1915, Serial No. 41,900. Renewed Mar. 29, 1919. Serial No. 287,660. 38 Claims. (Cl. 274—15.)

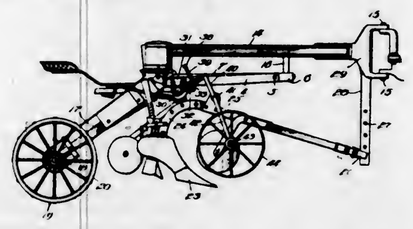
1. In a phonograph, a record, a swinging tone arm carrying a reproducer, means carried by the tone arm to raise said reproducer from the record, means for controlling the raising of said reproducer at any point in the angular movement of the tone arm, means to retain

the reproducer in raised position, means to shift the tone arm when the reproducer is raised, means to stop



the return movement of the tone arm at any point and release the locking means to permit the reproducer to reëngage the record.

1,391,544. TILLAGE IMPLEMENT. JOHN L. IRVING, Moline, Ill., assignor to Moline Plow Company, Moline, Ill., a Corporation of Illinois. Filed Dec. 9, 1919. Serial No. 343,664. 10 Claims. (Cl. 97—30.)



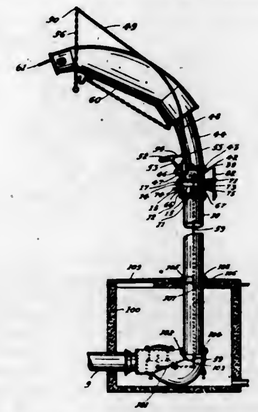
1. In an implement of the class described, the combination of a main frame adapted for connection with an elevated portion of a tractor, tillage elements located beneath the main frame and adjustable with respect thereto, a tillage beam adapted for connection with a lowdown portion of the tractor, and main supporting wheels carried by the main frame to the rear of the tillage elements and in tracking relation therewith, substantially as described.

1,391,545. WATER-COLUMN. EDWARD E. JOHNSON, St. Paul, Minn. Filed Apr. 20, 1917. Serial No. 163,432. 32 Claims. (Cl. 137—21.)

1. A water column comprising a fixed standpipe, a laterally-extended discharge pipe carried upon and revoluble about the vertical axis of said standpipe, means for positively locking said discharge pipe in a position parallel with the tracks, and a cam member pivoted to said discharge pipe operable from the tender for unlocking said discharge pipe.

7. A water column comprising a rigid vertical standpipe, a ring support connected with the standpipe and spaced from the outer cylindrical surface thereof, a second ring support revolubly connected with the first ring support and having a portion extending into said space with an inner cylindrical face surrounding and spaced from said outer cylindrical face, packing rings in the annular space between said faces, means for adjustably applying pressure to the packing rings to make a water-tight joint, and a laterally extended discharge pipe rigidly connected with the revoluble ring support.

12. A water column comprising a rigid vertical standpipe, a laterally extended discharge pipe and a support therefor revolubly mounted on the standpipe, a pair of dogs pivotally connected with the standpipe, a lug on said support engageable with the dogs to hold the discharge pipe locked in parallel-track position, means op-



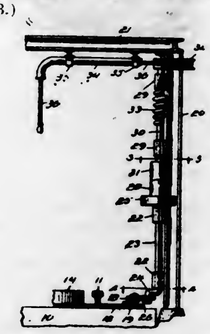
erable from the locomotive tender to withdraw the dogs from engagement with the lug, and means on said disengaging means for holding the dogs disengaged until the support and lug have been revolved.

1,391,546. FILLED BANGKOK HAT AND PROCESS FOR MAKING SAME. CHARLES S. KATZ, St. Louis, Mo. Filed June 2, 1920. Serial No. 386,050. 3 Claims. (Cl. 2—108.)



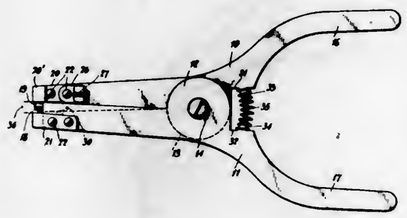
1. As an article of manufacture a bleached filled Bangkok hat.

1,391,547. RAILWAY SWITCH-THROW AND MINE SWITCH-THROW. DUGALD J. KELLY, Johnston City, Ill. Filed Mar. 8, 1921. Serial No. 450,653. 2 Claims. (Cl. 246—393.)



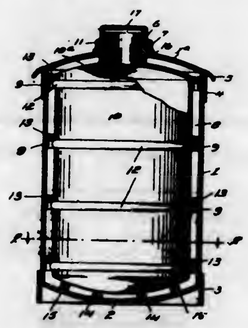
1. A switch operating mechanism comprising a lever member adapted to be coupled at one end to a switch bar and pivoted at the other end adjacent to one of the rails of a railway track, a crank rod mounted for rotation and coupled to the lever member intermediate its ends, a ratchet member connected to said crank rod, a stop pawl associated with said ratchet member, and means operative from a car for rotating the crank rod.

1,391,548. PISTON-RING REMOVER. ALVIN L. KLECKLEY, Charlotte, N. C. Filed Aug. 14, 1920. Serial No. 403,559. 5 Claims. (Cl. 29—86.4.)



1. A piston ring remover, comprising a pair of pivoted jaw members each provided at one end with an operating handle and provided at its opposite end with a lug for insertion in the gap between the ends of a piston ring, each of said jaws having a pair of side plates secured thereto, one on each side thereof and projecting beyond the lug of said member, one of each pair of said plates adapted to engage the opposite jaw to limit the closing movement of said jaws and form a space between the outer end of said plate and the end of the complemental plate of the other jaw.

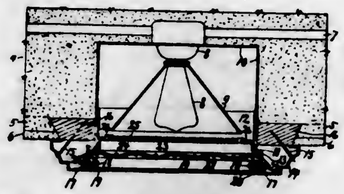
1,391,549. VACUUM-CAN. STELLA C. LARSEN, Washington, D. C., assignor of one-half to John W. Rust, Fairfax, Va. Filed Sept. 16, 1920. Serial No. 410,699. 1 Claim. (Cl. 220—15.)



A can of the class described comprising inner and outer casings connected to form a vacuum space around the inner casing *a* with combined packing and spacing rings arranged at intervals between them and encircling the inner casing, said casings having oppositely disposed reinforcing peripherally arranged annular ribs on the upper faces of which said rings are seated, said rings being of uniform width throughout and corresponding in width to the distance between the casings to adapt them to operate as spacers and form vacuum chambers between them.

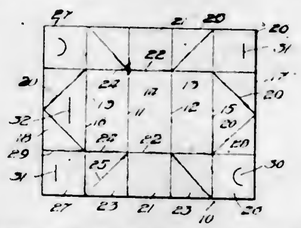
1,391,550. GYMNASIUM LIGHT. GEORGE L. LOCKHART, St. Paul, Minn., assignor to L. P. T. Specialty Company, Minneapolis, Minn., a Corporation of Minnesota. Filed July 24, 1919, Serial No. 313,131. Renewed Aug. 3, 1921. Serial No. 489,591. 6 Claims. (Cl. 240—3.)

1. The combination with a wall, ceiling, or other part of a room, having a cavity in its inward side, of a sheet metal box secured in the cavity, an electric lamp mounted in said box, an open frame inserted upwardly partly into the box and having a molding projecting outwardly upon the face of the wall or ceiling about the cavity, and means for securing said molding in place; said molding having an internal recess, stops detachably secured in said recess,



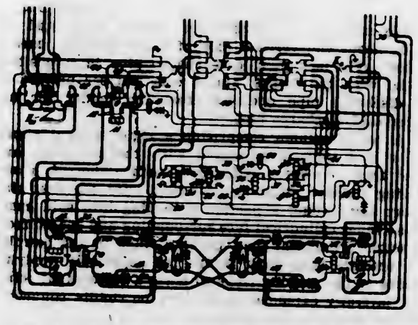
a wire netting retained by the stops, a skeleton frame retained by the wire netting, and a glass lens held by the skeleton frame intermediate the netting and the lamp.

1,391,551. BUTTER-WRAPPER. JOHN W. LOW, Joliet, Ill., assignor to National Carton Company, Joliet, Ill., a Corporation of Illinois. Filed Apr. 19, 1918. Serial No. 229,504. 4 Claims. (Cl. 229—40.)



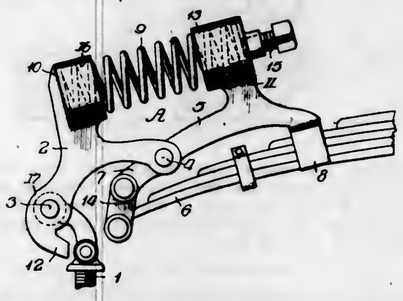
1. A wrapper for the purpose set forth comprising a sheet of scored material, including bottom and side walls and end walls of multi-thickness formed in part of terminal flaps of the bottom wall of a depth equal to the depth of the side walls and in part of triangular sections formed by diagonally folding adjacent side wall terminal flaps, and a top wall comprising members including inwardly turned terminal flaps of said side walls and inwardly turned underlying end extensions of the latter flaps, said end extensions at each end of the wrapper lying one over the other and one provided with a locking tongue to enter a locking slit of the other.

1,391,552. REPEATER-CORD-CIRCUITS. OWEN H. LOYNES, Woodridge, N. J., and Arthur F. Rose, New Brighton, N. Y., assignors to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 23, 1919. Serial No. 325,761. 3 Claims. (Cl. 179—50.)



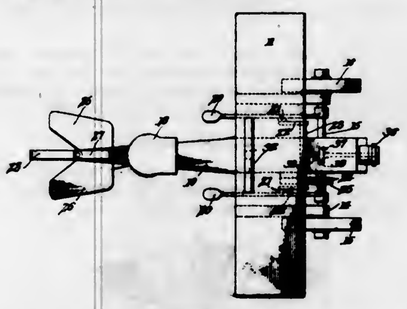
3. In a telephone system, a toll switching trunk terminating at a central office, a cord circuit at said central office including repeater apparatus and adapted for establishing connections with said trunk, means responsive to the connection of said cord with said trunk for completing a bridge across the talking conductors of said cord and for completing a bridge across the network conductors of said cord, supervisory signaling apparatus controlled by said first mentioned bridge, and an impedance element included in said second mentioned bridge having an impedance approximately equal to the impedance of said first mentioned bridge.

1,391,553. SHOCK-ABSORBER FOR AUTOMOBILES. EDWARD F. MCCARTHY, Chicago, Ill., assignor to The Ramo Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Nov. 25, 1919. Serial No. 340,678. 5 Claims. (Cl. 267—17.)



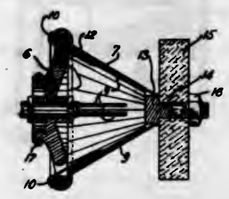
5. In a vehicle, the combination with a body member and a frame member, of means for resiliently supporting said body member on said frame member comprising a leaf spring secured to one of said members, a lever connected to said spring, and a second lever pivotally mounted on the other of said members and having a single connection with the first lever at an interval from the point of connection of said first lever and said springs, so that a downward thrust causes said levers to collapse, and a spring interposed between said levers to oppose the collapse of said levers.

1,391,554. CHILD'S VEHICLE. ROLLIN MCDOWELL, Portland, Oreg. Filed Dec. 14, 1920. Serial No. 430,704. 2 Claims. (Cl. 208—42.)



1. A device of the character described comprising a body, a hinged member at the rear end thereof carrying a ground engaging roller, means for swinging said member, an axle journaled below the forward end of the body and carrying ground engaging wheels, a pinion on said axle, a gear journaled below said body and meshing with said pinion, a crank shaft upon which said gear is mounted and provided with crank portions, and treadles pivoted upon the axle and connected by links with said crank portions.

1,391,555. GRINDING ATTACHMENT FOR SEWING-MACHINES. LOOMIS N. MCFALL, Denver, Colo. Filed Jan. 20, 1919. Serial No. 271,967. 1 Claim. (Cl. 51—257.)



A sewing machine attachment, comprising a hollow frusto conical frame whose larger extremity is adapted to fit snugly against the side of the fly wheel of a sewing machine, means on the inner face of said hollow frame at said larger extremity to project between the spokes of said fly wheel and engage said wheel to retain said frame thereon, said means comprising a plurality of elongated U-shaped resilient members having their inner ends secured to the inner side of said frame and their outer ends extending beyond said frame, one of said U-shaped members having an outwardly projecting portion (12) whereby the member may be readily operated for the purpose of attaching and releasing the frame from the wheel, an opening in said frame for receiving said projection and a grinding member mounted on the smaller end of said frame.

1,391,556. FINGER-PENCIL. HERMOGENES MANUEL, Cebu Cebu, Philippine Islands. Filed Nov. 8, 1920. Serial No. 422,650. 2 Claims. (Cl. 120—102.)



1. A finger pencil including a casing having a slit side at one of its ends and its opposite end tapered, clamping means between the edges provided by the slit, a barrel in the opposite end of the casing, an abutment between the barrel and casing, said barrel designed to receive therein a writing stick, and adjustable means for retaining the stick in the barrel.

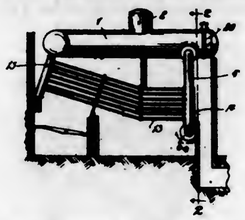
1,391,557. BEVERAGE-MAKING MATERIAL AND PROCESS OF PRODUCING THE SAME. GUSTAV KARL MAYER, WILLIAM G. ANDREWS, and ALEX VICTOR COLDBY, Chicago, Ill. Filed July 14, 1920. Serial No. 396,130. 5 Claims. (Cl. 99—11.)

1. A cereal for brewing purposes having its fermentable content converted into a non-fermentable state.

1,391,558. WATER-TUBE BOILER. FRANS MARINUS MEYER, Amsterdam, Netherlands. Filed Apr. 19, 1919. Serial No. 291,279. 1 Claim. (Cl. 122—291.)

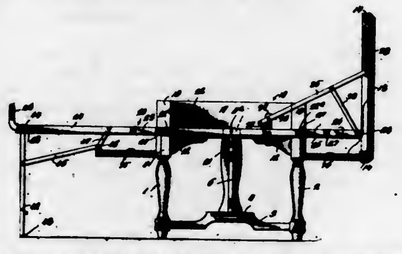
In a watertube-boiler consisting of a steam drum, front and backheaders and muddrum, and the headers connected to each other by means of bent watertubes welded to said headers, said steamdrum being of T-configuration, the

front headers being separately and movably connected to the cross-leg of the T-shaped steamdrum, the said back-



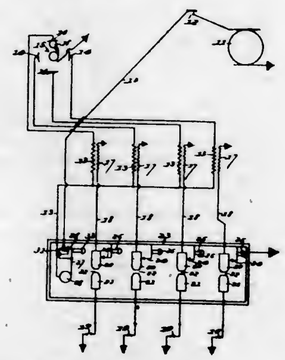
headers being each connected to the muddrum, the latter being movably connected to the other leg of said T-shaped steamdrum.

1,391,559. COMBINATION TABLE AND BED. MARTIN D. MIESNER, Portland, Oreg. Filed Dec. 27, 1919. Serial No. 347,727. 1 Claim. (Cl. 5—17.)



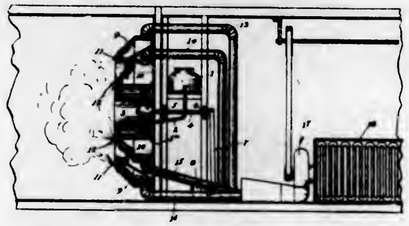
In a knockdown table and bed, a table body, removable legs supporting said body, the front and rear walls of said body being hinged at their lower edges to open outwardly, a top fixed to the upper edge of said rear wall and adapted to be disposed upright when said wall is opened, a foldable sectional bed spring carried by said body and adapted to be incased therein, legs carried by one section of said spring and connected to fold automatically on the opening and closing of said bed spring, a connection between said spring and front wall, standards carried inside said body, and catches on said legs for engagement with said standards when the bed is closed whereby the front wall is held closed.

1,391,560. INDICATOR FOR IGNITION AND LIGHTING SYSTEMS. VENCESLAUS F. MIKOLASEK, Lankin, N. D. Filed Dec. 9, 1919. Serial No. 343,633. 4 Claims. (Cl. 175—183.)



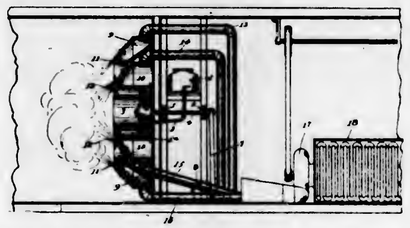
1. In an ignition system, a testing device for the primary circuit consisting of a shunt including an indicating element, stationary terminals included respectively in the main and shunt circuits, and a movable terminal included in the main circuit and adapted for engagement with either of said stationary terminals.

1,391,561. FOOD PRODUCT OBTAINED FROM BREWERS' YEAST. JOHN C. MILLER, Covington, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 19, 1918. Serial No. 223,260. 2 Claims. (Cl. 99—5.)



2. A new food product made from brewers' yeast, comprising an unground flour free from grit, containing substantially fifty-four per cent. of protein, twenty-five per cent. nitrogen free extract, two per cent. crude fat and ten per cent. ash and fiber.

1,391,562. FOOD PRODUCT OBTAINTD FROM BREWERS' YEAST. JOHN C. MILLER, Covington, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio, a Corporation of Ohio. Filed Mar. 19, 1918. Serial No. 223,261. 2 Claims. (Cl. 99—5.)



2. A new food product consisting of brewers' yeast the form of an impalpable powder, with the yeast cells in sound condition and the particles of powder not ground, and the active ferments present as in the original wet material.

1,391,563. ABDOMINAL BELT. HENRI ALFRED MONIN, St. Denis, France. Filed Aug. 19, 1919. Serial No. 318,515. 2 Claims. (Cl. 2—188.)



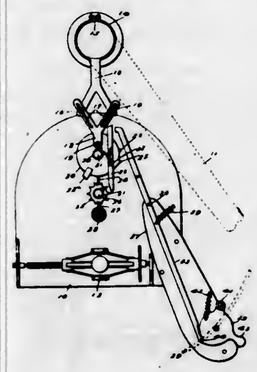
1. A therapeutic appliance of the type described, comprising an abdomen-supporting belt having a series of elastic supporting straps extending from its opposite front edges and crossing each other at an angle, a holding belt arranged below the supporting belt, and means for detachably engaging the straps of one side with the straps of the other side, but of a lower ring, and means for detachably engaging the straps of the lowermost rank with the holding belt.

1,391,564. ADJUSTABLE TOOL AND HEAD. ARTHUR H. MORRIS, Newark, N. J. Filed Nov. 1, 1920. Serial No. 421,058. 3 Claims. (Cl. 29—96.)



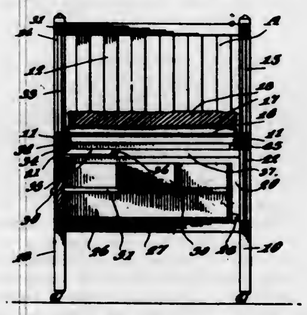
1. The combination of a tool holder, a tool slidably mounted therein and provided with a gear rack, a worm gear for coacting with said rack to effect movement of said tool, and means engaging said worm gear and operable for effecting adjusting movements thereof.

1,391,565. STOP FOR TALKING-MACHINES. WILLIAM J. MURDOCK, Clinton, Ind. Filed May 29, 1920. Serial No. 385,229. 3 Claims. (Cl. 192—116.)



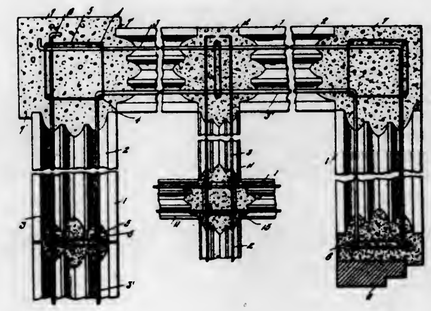
1. The combination with a phonograph, of a brake, a rotatable element, a pivotally mounted spring pressed brake actuating lever carried by the rotatable element and adapted for engagement with the brake, means operated by the movement of the tone arm over the record for moving the brake actuating lever away from the brake and means operated by the motor when the tone arm movement ceases to engage the brake actuating lever and apply the brake.

1,391,566. COMBINED CRIB AND WARDROBE. FRANK W. MUSSELMAN, Kansas City, Mo. Filed Nov. 26, 1920. Serial No. 426,538. 3 Claims. (Cl. 5—58.)



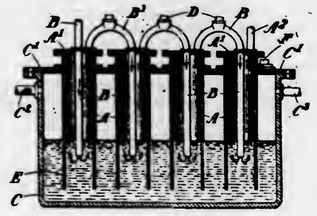
3. A combination piece of furniture comprising a wardrobe and a bed formed thereabove, side and end panels for the bed, one of the panels being movable in relation to the other panels and arranged for sliding movement above the wardrobe, guides slidable above the wardrobe, means pivotally connecting the lower end of the movable panel with the guides, a bayonet slot and pin connection for the movable panel, and means for permitting a limited lateral movement of the sliding guides to permit the actuation of the bayonet slot and pin connection.

1,391,567. WALL CONSTRUCTION. JOSÉ MAS NADAL, Humacao, Porto Rico. Filed July 16, 1920. Serial No. 396,641. 3 Claims. (Cl. 72—30.)



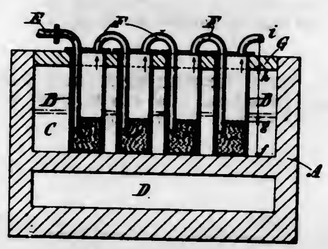
3. In a building construction, a pair of intersecting walls comprising superposed tiers of horizontal alined blocks, all of the blocks having a plurality of grooves in all four of their edges, vertical and horizontal reinforcing rods in the grooves of the blocks, said rods arranged in pairs and the rods of the respective pairs coupled together, a column intersecting tiers of said blocks, and cementitious material in the grooves of the blocks and integral with the column.

1,391,568. PROCESS FOR THE CRACKING OF HYDROCARBON OILS AND THE LIKE. JOHN NELSON, Glasgow, Scotland. Original application filed Mar. 2, 1918, Serial No. 219,950. Divided and this application filed Oct. 27, 1919. Serial No. 333,733. 6 Claims. (Cl. 196—69.)



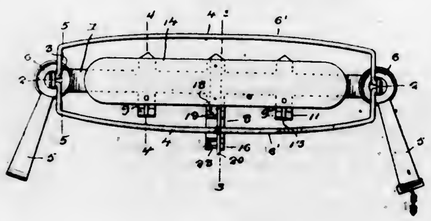
1. The herein described process for cracking hydrocarbon oils and the like, which comprises introducing the hydrocarbon into a liquid contact substance in successive steps of brief contact period.

1,391,569. PROCESS FOR THE CRACKING OF HYDROCARBON OILS AND THE LIKE. JOHN NELSON, Glasgow, Scotland. Filed Dec. 23, 1919. Serial No. 346,990. 9 Claims. (Cl. 196—25.)



1. The herein described process for cracking hydrocarbon oils and the like which comprises introducing the hydrocarbon into a liquid contact substance in a series of steps and between two successive steps cooling the vapors to a point just above that at which they condense.

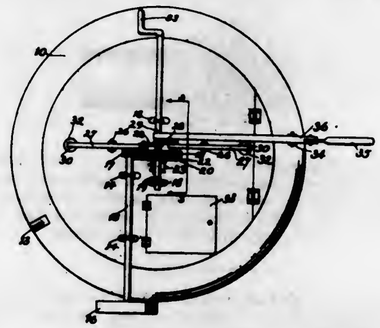
1,391,570. TRAP. NELS S. NELSON and AXEL BOODE, Detroit, Mich. Filed July 6, 1920. Serial No. 394,160. 2 Claims. (Cl. 43—92.)



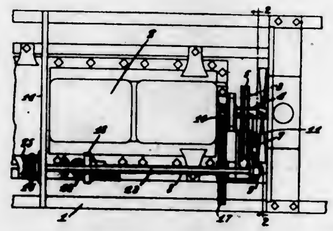
1. A trap of the character described comprising a base having upturned ends, jaws having offset ends pivoted within said upturned ends of the base, U-springs between the base and the ends of the jaws for normally swinging the jaws closed, a plurality of cross pieces on the base extending laterally with respect thereto and beyond the edge thereof, a trip pan, arms carried by said trip pan and hingedly connected with the outer cross pieces, the intermediate cross piece extending outwardly beyond the outer cross pieces and having its free end upturned and slotted, an arm carried by said trip pan above said intermediate cross piece and cut away to provide a plurality of shoulders disposed at different distances from the edge of the pan, and a dog disposed within said notch and longitudinally adjustable and laterally movable whereby its free end will be engaged with a selected one of said shoulders.

1,391,571. WASHING-MACHINE. CECIL JOSEPH NEWHOUSE, Mounds, Okla. Filed July 28, 1920. Serial No. 399,531. 1 Claim. (Cl. 74—14.)

The combination with a receptacle, supports mounted on the receptacle, a horizontal shaft carried by the supports, said shaft having an intermediate crank, a second horizontal shaft adjacent the first shaft, intermeshing gears on the shafts, a pair of uprights on the receptacle, a rock lever mounted on each upright, a vertical plunger rod through the top of the receptacle, a spring carried by the rod and connected with one end of a rock lever, the other end of each rock lever being pivotally connected to said crank, a vertical rotatable shaft operatively engaged with the first horizontal shaft, a rock lever mounted on one side of the receptacle, and a pitman connected with the said rock lever and the said crank.



1,391,572. PUMP-OPERATING MECHANISM. THOMAS B. NICKEL, McCracken, Kans. Filed Jan. 24, 1919. Serial No. 272,878. 1 Claim. (Cl. 74—26.)



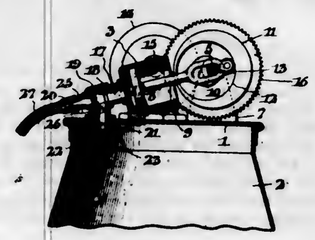
The combination with a motor vehicle including an engine shaft and a friction drive wheel revoluble with said shaft, of a standard, a driven shaft journaled in the standard, a gear secured to said driven shaft, an arm mounted to swing upon the driven shaft, a controlling rod mounted for rotation in the standard and extending through the dash of the vehicle, means for rotating said rod, an arm movable with the rod, a link connection between the arms, a friction wheel carried by one of the arms, yielding means for holding the friction wheel normally in contact with the drive wheel, and a gear revoluble with said friction wheel and constantly in mesh with the gear upon the driven shaft.

1,391,573. MILKING APPARATUS. LEROY NIXON, Murray Hill, N. J. Filed Sept. 19, 1919. Serial No. 324,843. 4 Claims. (Cl. 31—98.)

1. A milking apparatus, including in combination, a motion pump and adjunctive appurtenances whereby the same is connected to the animal to be milked; a piston for said pump; and a rotary cam for reciprocating said piston, said cam being so shaped as to cause the piston to dwell at the end of its suction stroke.

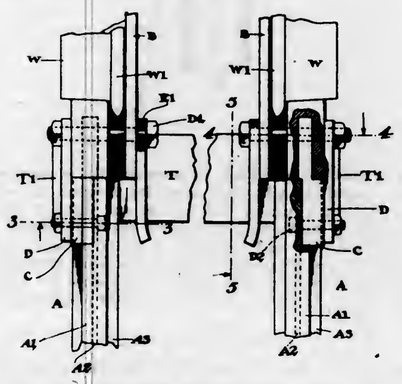
2. A milking apparatus, including in combination, a suction pump and adjunctive appurtenances whereby the same is connected to the animal to be milked; a piston for said pump; a driving shaft; a connecting rod for said piston having a yoked extension embracing said shaft and adapted to maintain the piston and cylinder in alinement; and means for translating the rotation of said shaft to effect reciprocation of the piston rod.

3. A milking apparatus, including in combination, a suction pump and adjunctive appurtenances whereby the same is connected to the animal to be milked; a piston for said pump; a driving shaft; a connecting rod for said piston having a yoked extension embracing said shaft and adapted to maintain the piston and cylinder in alinement; a roller attached to said connecting rod; and a disk cam fixed to said shaft and coöperative with the roller in causing reciprocation of said rod.



4. A milking apparatus comprising, in a complete unit with its parts mounted on a receptacle cover, a suction pump having a cylinder and a reciprocating piston therein; a three-way suction and delivery fitting connected to said cylinder, discharging through said cover, and having a suction connection for milking; a rotary cam for reciprocating said piston with a dwell at the end of its suction stroke; and an electric motor driving said cam through a reduction gearing.

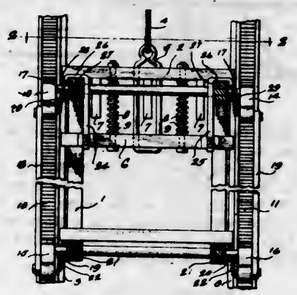
1,391,574. RAILWAY-TRACK AND RAIL FOR THE SAME. CYRUS S. OLDROYD, Cincinnati, Ohio. Filed Jan. 19, 1921. Serial No. 438,412. 17 Claims. (Cl. 238—10.)



1. A reversible railway track rail having at each side a single tread and a single web forming a wheel flange guard, said web being separated from said tread by a wheel flange channel, said channels being at opposite sides of the middle upright-longitudinal plane of the rail, whereby either side of the rail may serve as base or top of the rail, substantially as described.

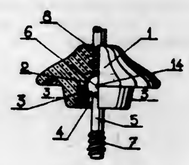
1,391,575. SAFETY-STOP FOR ELEVATORS. ANDREW OPAISAK and JOHN PROKOPOWICZ, Detroit, Mich. Filed Feb. 26, 1919. Serial No. 279,469. 3 Claims. (Cl. 187—83.)

1. In a safety stop for elevators, the combination, with an elevator cage, and the supporting means therefor, of a bar movably carried by the elevator cage and normally held in upward position by said supporting means, spring means for forcing said bar downwardly with respect to the cage, yokes carried by the bar adapted for engagement



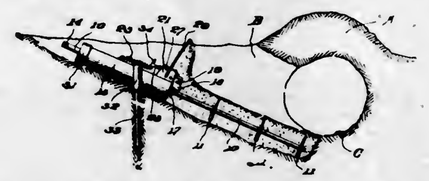
with the cage to limit the action of the spring means upon release of the supporting means, racks, pawls pivotally carried by the elevator cage, and means connecting said yokes and pawls to force the pawls into engagement with the racks upon release of the supporting means.

1,391,576. INSULATING UNIT FOR ELECTRIC SUSPENSION-CHAINS. LUCIEN EMILE THÉODORE PERRIN, Paris, France. Filed Oct. 22, 1920. Serial No. 418,864. 3 Claims. (Cl. 173—318.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



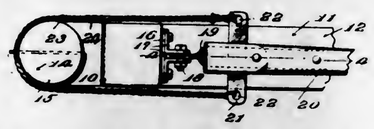
3. An insulator unit for electrical suspension chains on high tension lines comprising a porcelain part having a cavity in its lower end, a sleeve of non-conducting material secured in said cavity, and a stem of non-conducting material having a threaded lower end and a spherical ball at its upper end, the ball being located in the cavity and resting on said sleeve and the stem passing through said sleeve, the upper end of the porcelain part being provided with a cavity having a threaded wall designed to engage the threaded stem of another unit.

1,391,577. TRAP. FRANK PHILLIPS, Fort Crook, Nebr. Filed Aug. 28, 1919. Serial No. 320,385. 7 Claims. (Cl. 43—81.)



1. In a trap, the combination, of a rod, a plurality of animal piercing tines carried by said rod, a spring for rotating said rod, a latch pin extending diametrically from said rod, a pawl engaging said latch means for normally holding said spring under tension, and trip means for rocking said pawl to release said spring for rotating said rod.

1,391,578. GATE-FASTENER. JOHN R. POWELL, Cleveland, Mont. Filed Apr. 4, 1919. Serial No. 287,495. 1 Claim. (Cl. 292—247.)



A wire gate fastener comprising a lever, a cruciform plate secured to one of the wider faces of one end of the lever with two of its opposite arms projecting from opposite sides of the lever and with one of its remaining arms projecting beyond the end of the lever, said last-named arm of the plate being provided with a hinge member, and a flexible loop having its ends secured to the outer ends of the first-named opposite arms.

1,391,579. ARTIFICIAL CULTIVATION OF BRONCHIO-PNEUMONIA VIRUS FOR USE IN THE TREATMENT OF SWINE. FREDERICK PROESCHER, Sioux City, Iowa. Filed July 15, 1920. Serial No. 396,476. 8 Claims. (Cl. 167—10.)

1. As a new product, an artificial pure culture of bronchio-pneumonia virus for the treatment of swine.

5. As a new product, an artificial pure culture of the virus or infective organisms causative of bronchio-pneumonia of swine in a nutrient medium containing a mixture of animal tissue broths containing a dissolved hemoglobin.

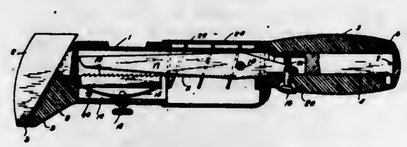
8. The method of cultivating bronchio-pneumonia virus of swine, which consists in growing the same in a nutrient medium containing a bouillon made from animal tissue and containing hemolized blood.

1,391,580. AUXILIARY WINDSHIELD. ASBURY REED, Los Angeles, Calif. Filed Dec. 23, 1919. Serial No. 346,963. 1 Claim. (Cl. 296—84.)



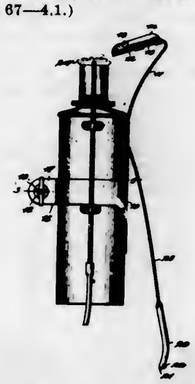
A windshield comprising a glass plate having notches in its upper and lower edges, upper and lower bearing members having channels for the reception of the upper and lower edges of the glass plate, transverse stop parts located in the base of the channels adapted to enter the notches of the plate for holding it against endwise movement, said members each having a socket and the socket of the upper member being tapered, a rod received in the socket of the lower member, and having an end thereof tapered adapted to be received in the tapered socket of the upper member, and means for drawing the rod into the tapered socket and causing the bearing members to clamp the glass plate therebetween.

1,391,581. AUTOMATIC WRENCH. GEORGE E. ROBERTS, Schenectady, N. Y. Filed Mar. 1, 1921. Serial No. 448,789. 6 Claims. (Cl. 81—129.)
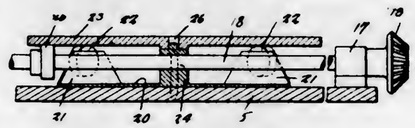


3. A wrench comprising a shank having a groove, stationary and movable jaws carried by said shank, means for normally urging the movable jaw toward the stationary jaw, a spring pressed locking element carried by the movable jaw and adapted to engage the shank, an adjusting means for the locking element, an actuating lever pivoted in said groove, and an operating means connected to said actuating lever for moving the same into engagement with the locking element to free the same from the shank.

1,391,582. IGNITION ATTACHMENT FOR TORCHES OR THE LIKE. ALEXANDER H. ROLLERSON, Plainfield, N. J. Filed Oct. 30, 1920. Serial No. 420,795. 1 Claim. (Cl. 67—4.1.)



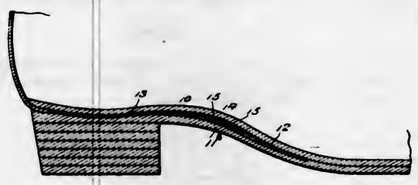
The combination with a torch or the like of an attachment comprising a bracket embodying a clamp, an extension forming a part of said bracket and inclined toward the wick of said torch, a piece of spark producing material carried by said extension, a freely movable holder connected to said bracket, a replaceable spark striking element in the end of said holder, and means for holding said element in place with an end thereof projecting from said holder.

1,391,583. DISPLAY DEVICE. SOLOMON SACHS, Washington, D. C. Filed Apr. 20, 1921. Serial No. 462,966. 2 Claims. (Cl. 211—20.)



1. A display device comprising a shaft, a plurality of plates supported under the shaft, means for securing adjustably the plates to the shaft, each plate having upwardly extending ears, rollers supported on the ears, a table supported above each plate and means for imparting rotary movement of the shafts to the tables.

1,391,584. ARCH-SUPPORT. WILLIAM N. SECHLER, Fort Scott, Kans. Filed Feb. 5, 1921. Serial No. 442,770. 2 Claims. (Cl. 36—76.)



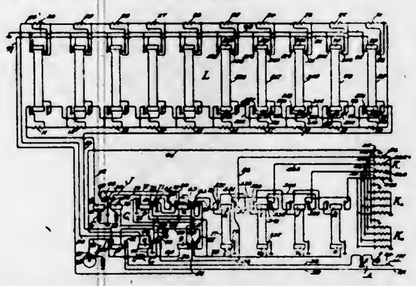
1. An arch support formed of separate sections and spaced tongues extending from the adjacent edges of the sections, the tongues of one section fitting within the spaces between the tongues of the other section and overlying said adjacent edges, to connect the sections in a manner to permit of relative pivotal and longitudinal movement.

1,391,585. ARTIFICIAL ILLUMINATION. GEORGE HENRY SHERINGHAM, London, England. Filed Jan. 31, 1920. Serial No. 355,489. 3 Claims. (Cl. 240—1.)



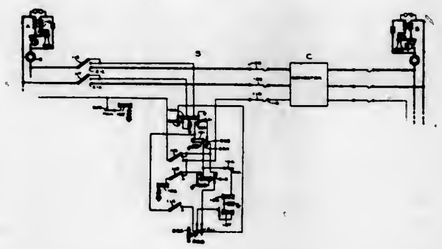
1. An artificial lighting unit comprising in combination an artificial source of light and an opaque reflector having on its reflecting surface a plurality of colors in small areas and uniformly disposed on the entire surface, the colors being such as selectively to absorb energy of light rays in the artificial light which possess excessive intensity, and the total areas occupied by said colors being such as to absorb the energy of said rays in such proportion as to produce in the spectrum of the resultant light a distribution of intensity substantially corresponding to that in the spectrum of daylight.

1,391,586. ELECTRIC TRANSLATOR. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed June 23, 1917. Serial No. 176,502. 24 Claims. (Cl. 179—18.)



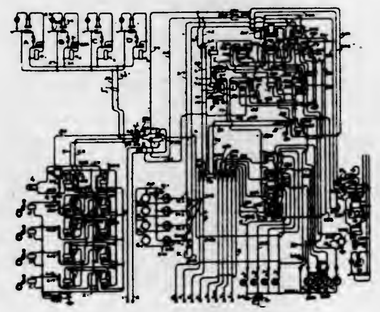
22. In an electrical system, a progressively operable switch arranged to occupy a plurality of selective positions, and circuits and resistance units arranged as a Wheatstone bridge to directively control the setting of said switch.

1,391,587. SUBSCRIBER-OPERATED TELEPHONE SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Jan. 28, 1918. Serial No. 214,057. 15 Claims. (Cl. 179—18.)



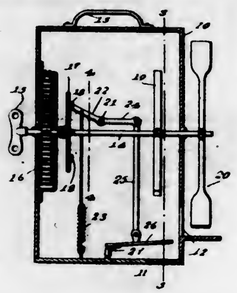
14. In an automatic telephone system, an incoming circuit, a plurality of outgoing circuits, an automatic step-by-step switch for inter-connecting said incoming circuit with any of said outgoing circuits, said automatic switch having off-normal contacts arranged to be closed only after a pre-determined number of steps, means for advancing said switch, an impulse relay provided with contacts and operated over said incoming circuit to control said advancing means, a release magnet for said switch and a circuit for said release magnet completed through said off-normal contacts and front contacts of said impulse relay.

1,391,588. TELEPHONE-SERVICE SYSTEM. FRANK M. SLOUGH, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a Corporation of New York. Original application filed June 11, 1917, Serial No. 174,154. Divided and this application filed Nov. 1, 1918. Serial No. 260,628. 21 Claims. (Cl. 179—27.)



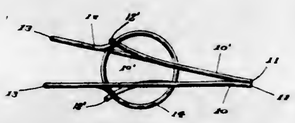
1. In a telephone system, the combination with a telephone line provided with a plurality of sub-stantions, a main station, said telephone line extending by its limbs from a plurality of the substations to a main station, a plurality of signals at the main station, one for each of the said substations, a plurality of resistances, one at each of the substations, each resistance being of different value from the other substation resistances, each of the said signals corresponding to a particular substation on the line, and apparatus at the main station under the control of one of the said resistances included in circuit with the line to operate the particular signal to identify the substation whereat said resistance is located.

1,391,589. MOUSETRAP. THOMAS E. SPENCER, Wetaskiwin, Alberta, Canada. Filed Feb. 9, 1920. Serial No. 357,395. 3 Claims. (Cl. 43—75.)



1. A trap of the character described comprising a casing provided with an entrance opening, a rotary shaft journaled through said casing, spring tension on said shaft tending to rotate the same in one direction, a platform pivoted within said casing, a trigger member having operative connection with said shaft and normally preventing rotation thereof, and striker arms carried by said shaft, depression of said platform resulting in partial rotation of said shaft whereby to cause said striker arms to pass, one above and across said platform and the other across said entrance opening exteriorly of the casing.

1,391,590. CLOTHESPIN. HARRMANN STAMMER, Bartlesville, Okla. Filed Feb. 5, 1921. Serial No. 442,771. 1 Claim. (Cl. 24—139.)



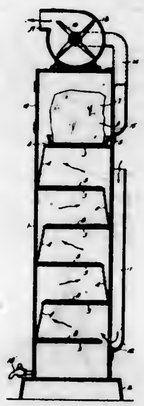
A clothes pin formed from a single length of wire and comprising a central coil spring portion, fingerpieces at one side of the coil spring portion and gripping jaws at the other side of said coil spring portion, both strands of each of the fingerpiece and gripping jaw portions extending transversely of the coil spring portion, one strand of each of the fingerpiece portions being connected to an end of the coil spring portion, and one strand of each of the gripping jaw portions being extended between the coil spring portion and the said connection of the fingerpiece strand with the coil spring portion and disposed in embracing relation to said connection.

1,391,591. ELECTRIC INDICATOR AND ALARM. JOSEPH B. STEVENS, Six Mile Run, Pa., assignor of one-half to James G. Foster, Six Mile Run, Pa. Filed Oct. 21, 1918. Serial No. 258,974. 1 Claim. (Cl. 200—86.)



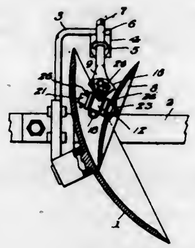
A contact making device for use in front of a door, comprising a pair of spaced stationary contacts, a resiliently mounted element, a contact making element carried thereby, and positioned to bridge the contacts first named, and a second resiliently mounted element opposite that first named and positioned to be brought into engagement with the bridging contact element and render the latter operative.

1,391,592. AIR-COOLER. WILLIAM HENERY STONE, Port Angeles, Wash. Filed June 8, 1920. Serial No. 387,353. 1 Claim. (Cl. 62—133.)



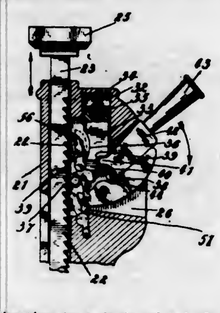
An air cooler, comprising a casing, a series of superimposed partitions in the casing having staggered relation to each other, moisture holding screens connecting the partitions and through which the air is compelled to pass, and moisture holding pads on the partitions.

1,391,593. PLOW. CLAUDE CLARENCE SWEETING, Chadwell Heath, England. Filed Oct. 23, 1920. Serial No. 419,032. 4 Claims. (Cl. 97—79.)



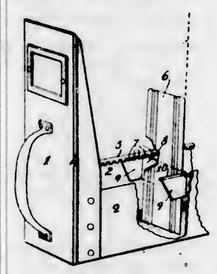
1. In combination with a disk plow, a bracket thereon, a shank vertically adjustable on said bracket, a clamping member connected with the lower end of said shank and adjustable about a horizontal axis, a bushing carried by said clamping member, a shank rotatably supported by said bushing and a scraper disk carried by said shaft

1,391,594. JACK. JOB TATTON, North Bay, Ontario, Canada. Filed Dec. 16, 1920. Serial No. 431,280. 10 Claims. (Cl. 254—110.)



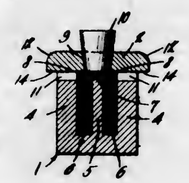
1. The combination in a jack, of a body portion, a lifting bar mounted therein, a lever operatively connected to said lifting bar for raising the latter, and additional means actuated by the lever for raising said lifting bar.

1,391,595. FILE-CABINET FOLLOWER. ARVINE N. THOMAS, Canton, Ohio. Filed Dec. 9, 1920. Serial No. 429,344. 7 Claims. (Cl. 129—28.)



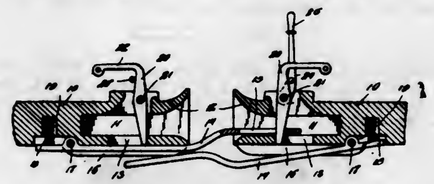
1. In a filing receptacle, longitudinal tubular guides, a follower within said receptacle, extensions upon said follower extending into said tubular guides, and means adjacent to the tubular guides arranged to be automatically engaged by the follower when the same is moved into engagement with papers in the filing receptacle.

1,391,596. POULTRY ROOST. FRED C. WEGNER, Archer, Nebr. Filed Apr. 27, 1921. Serial No. 464,919. 4 Claims. (Cl. 119—25.)



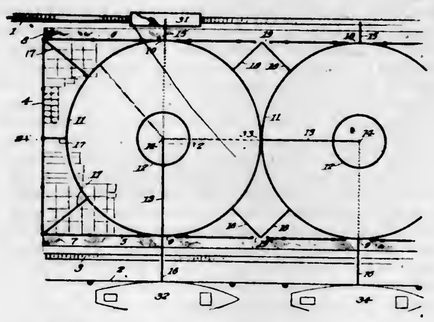
1. A poultry perch comprising a body and a lid secured to the body, the body having walls defining a compartment for the reception of a liquid insecticide, the body and the lid being of wood, whereby the insecticide will ascend the walls by capillary attraction and spread by capillary attraction upon the lid, the body including an inner wall, separating the compartment into parts and acting as a wick, facilitating the distribution of the insecticide by capillary attraction.

1,391,597. COUPLING. JOSEPH C. WELLS, Sr., Esserville, Va., assignor of one-half to W. D. Hatfield, Esserville, Va. Filed June 4, 1920. Serial No. 386,421. 1 Claim. (Cl. 213—56.)



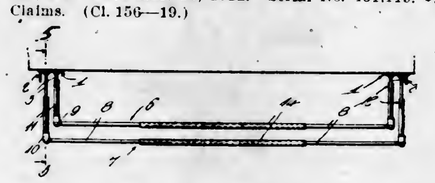
A coupling of the character described comprising similar members carried by the adjacent ends of cars, each member including a head having a longitudinal recess with a flaring entrance, a swing pin within each recess, a coupling link pivoted intermediate its ends upon the lower side of the head and having one end extending beyond the head and upwardly offset whereby the coupling link of either head may be positioned to enter the recess of the other head, the head being formed in its underside with a recess spaced from the first named recess, and a spring within the second named recess engaging the coupling link whereby to hold the latter normally against the underside of the head.

1,391,598. OVERHEAD RADIAL CONVEYER SYSTEM. FREDERICK WOHN, San Antonio, Tex. Filed Dec. 6, 1920. Serial No. 428,535. 10 Claims. (Cl. 212—18.)



1. An overhead radial conveyer system, comprising a framework, a circular track suspended from the upper part of said framework, and a radially extending swinging hoist-supporting crane suspended from said track.

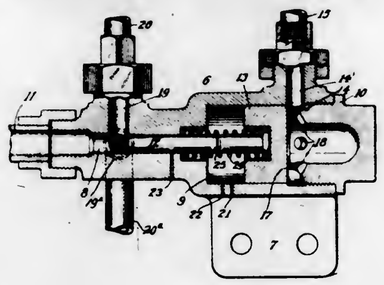
1,391,599. WINDOW-FIXTURE. LOUIS E. WOOD, Farrell, Pa. Filed Mar. 10, 1921. Serial No. 451,119. 2 Claims. (Cl. 156—19.)



1. A fixture of the type set forth comprising a bracket for attachment to a window frame, including an attaching plate and a fixed forwardly extending horizontal bracket arm beveled at its outer end and provided near this end with a lateral stop-pin, and a curtain supporting member including a right-angularly disposed tubular slotted sleeve

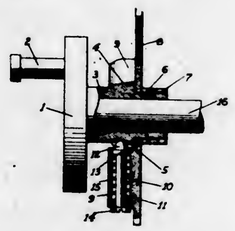
adapted to slide on said arm and having a portion thereof cut away at its inner end to permit it to be detachably engaged with said arm, said stop-pin to extend through the slot in the sleeve and limit the sliding thereof and also prevent rotation thereof on said arm.

1,391,600. VACUUM-BREAKER. ROBERT WOOD, New York, N. Y. Filed June 2, 1915. Serial No. 31,641. Renewed Feb. 12, 1921. Serial No. 444,535. 1 Claim. (Cl. 121—137.)



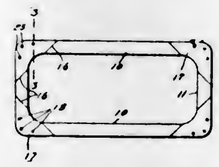
In a device of the class described, a casing provided with a bore extending therethrough from end to end and substantially closed from the external atmosphere, one end of said bore being enlarged to form the same into a large chamber and a relatively small chamber, the end of the bore at the small chamber constituting an opening from a source of relatively high pressure, said casing provided with an outlet port leading from the small chamber and adapted to communicate with a space designed normally to have a high working pressure therein, a relatively small piston having a sliding fit in the small chamber and projecting therefrom into the large chamber, said outlet port controlled by said small piston, a relatively large piston having a sliding fit in the large chamber, said pistons coacting to constitute a two-part differential piston, a spring acting on the small piston for maintaining the same in bearing engagement with the large piston and for moving said small valve into position uncovering said outlet port, said large chamber provided with a port for placing the large end of the differential position continuously in open communication with said high pressure space and a stop cap for the large end of the bore.

1,391,601. AUTOMATIC SAFETY-CLUTCH. REMO C. ZANON, Modesto, Calif., assignor of one-half to John J. Ferlin, Modesto, Calif. Filed Dec. 8, 1920. Serial No. 429,264. 2 Claims. (Cl. 64—99.)



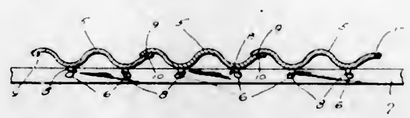
1. An automatic safety clutch comprising a driven member, a hub thereon, a driving member mounted on the hub, the latter being provided with longitudinal grooves beyond the plane of the driving member, pins mounted to the driving member radially thereof and having heads normally seated in the grooves and means for regulating the force of engagement of such heads with the grooves and said hub and grooves tapering outwardly away from the driven member, whereby the driving and driven members are automatically held in their proper spaced relation.

1,391,602. WINDOW-FRAME. SAMUEL A. ABRAMSON, Newark, N. J. Filed Jan. 25, 1921. Serial No. 439,891. 3 Claims. (Cl. 20—56.)



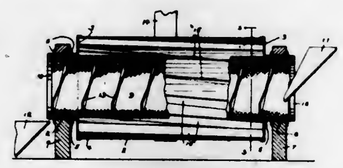
1. A frame of the character described comprising side and end members, dowel pins connecting said members at the corners of the frame, corner blocks arranged at one side of the frame, each corner being cut away to provide beveled edges, corner pieces arranged in said cut away portion with their ends contacting said beveled edges, said corner pieces being arranged opposite the corner blocks, and means for holding said corner pieces in position on the frame.

1,391,603. ROOFING-TILE. BYRON L. BACOT, McComb, Miss. Filed Nov. 24, 1920. Serial No. 426,281. 2 Claims. (Cl. 108—10.)



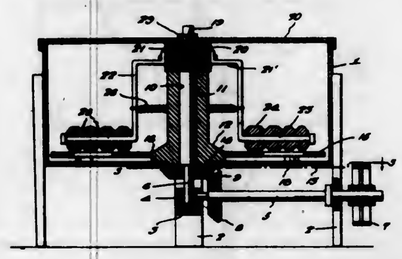
1. A roofing tile having depending lugs on its under side, said lugs having the shape of laterally presented hooks to provide nail seats at their side edges.

1,391,604. CANDY-SUGARING MACHINE. FRANK H. BAUMGARD, Columbus, Ohio. Filed Sept. 14, 1920. Serial No. 410,128. 3 Claims. (Cl. 91—7.)



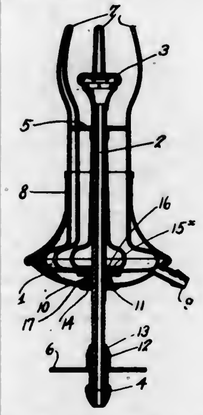
1. In a sugaring apparatus of the class described, an outer cylindrical casing, end walls connected with said casing and having reduced longitudinally extending journaling extremities, an open ended inner shell of foraminated material arranged to pass axially through said casing and to be connected with the journaling extremities thereof, a conveyer structure situated within said shell for causing materials positioned therein to be advanced longitudinally through the machine and discharged from the opposite end of the shell, said shell and casing being substantially spaced to provide a sugar receiving chamber therebetween, whereby upon the rotation of said casing sugar will be sifted through said shell into engagement with the materials contained in the latter, and means for effecting the rotation of said casing.

1,391,605. WASHING-MACHINE. ROBERT BELDEN, Belden, Calif. Filed Mar. 14, 1921. Serial No. 451,992. 3 Claims. (Cl. 259—107.)



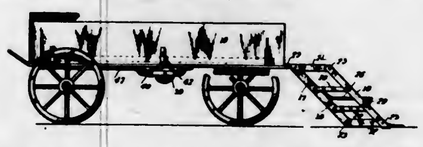
1. In a washing machine, a tub, a central column therein, a shaft extending through the column, a dasher including a removable head, disposed on the shaft, resting on the upper end of the column, revoluble with the shaft and susceptible to a limited longitudinal movement thereon outward of the column, rods having oppositely disposed angle ends, one end of each rod being pivoted to the head, a grooved roller journaled on the opposite end of each rod, and means for revolving the shaft.

1,391,606. SYRINGE. TALBERT W. BLAKESLEE, Erie, Pa. Filed Mar. 26, 1920. Serial No. 368,055. 7 Claims. (Cl. 128—244.)



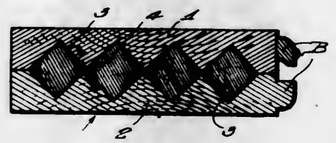
5. In a syringe, the combination of a hollow stem, a drain cup loosely surrounding the stem, and a nut connected to and adjustable on the stem and detachably connected to the cup and adapted when detached to be moved rectilinearly with the stem.

1,391,607. LOADING AND UNLOADING APPARATUS FOR VEHICLES. VICTOR L. J. BOURGEOIS, Montreal, Quebec, Canada, assignor of one-half to Joseph Nazaire Dubois, Montreal, Canada. Filed Nov. 29, 1919. Serial No. 341,456. 3 Claims. (Cl. 214—85.)



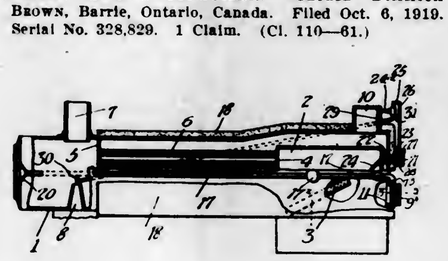
1. The combination with a vehicle, a frame including spaced side members attached to the rear end of said vehicle, said frame comprising a plurality of hinged sections, inclined tracks attached to the side members of the frame, and a carriage mounted on the tracks to ride upwardly thereon and upon the side members of the frame into said vehicle.

1,391,608. DOOR AND WINDOW CONSTRUCTION. JOHN G. BROSIUS, Tulsa, Okla. Filed Aug. 9, 1920. Serial No. 402,233. 3 Claims. (Cl. 20—35.)



1. A stile for sash, door, and like structures comprising a piece of timber having a plurality of parallel longitudinal grooves formed in its inner face and covering substantially the entire area of said face, said grooves being straight throughout their length and the adjacent walls of the adjacent grooves converging into one another, a plurality of reinforcing strips of a shape to snugly fit the grooves, being secured in the latter so that approximately one-half thereof projects beyond the aforesaid inner face, and a second piece of timber like said first piece, the projecting portions of said strips being received in and secured in the grooves in said second piece of timber.

1,391,609. SMOKE-CONSUMER. GEORGE DIMMICK BROWN, Barrie, Ontario, Canada. Filed Oct. 6, 1919. Serial No. 328,829. 1 Claim. (Cl. 110—61.)

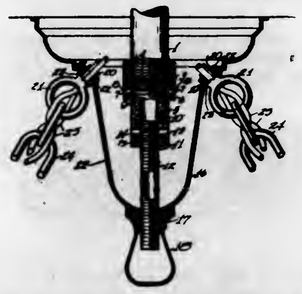


In a locomotive, the combination with the locomotive boiler provided with a steam dome, an insulated cover, a fire box located therein provided with the usual fire door opening and fire doors, of a tube extending longitudinally of the locomotive boiler and embedded in the insulated cover next to the heated boiler wall and having an open forward directed mouth at its front end and extending at its rear end to the fire door opening, a nozzled pipe connected to the inner end of the aforesaid tube the nozzles of which are directed into the fire door opening, a pipe leading from the steam dome, a manifold located above the fire door, a series of pipes extending from the manifold through the wall of the fire box and having downwardly directed inner ends adapted to direct the steam over the fire bed, a covering for the manifold, and a controlling valve for the steam dome pipe.

1,391,610. ELECTRIC FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 423,636. 2 Claims. (Cl. 240—85.)

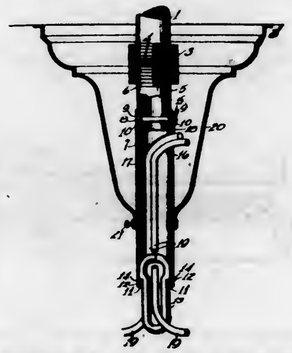
1. In an electric fixture of the character described, the combination of a fixed support, a cylindrical insulating member provided with a bore and having diametrically opposed openings extending through its walls adjacent the lower end of the insulating member, means for connecting said fixed support and said insulating member, a tubular member threaded exteriorly and having its upper end in-

serted a predetermined distance into the bore of said insulating member, said second named tubular member having diametrically opposed openings extending therethrough adjacent the upper end thereof, a pin projected



through the openings in the walls of the insulating member and the openings through said second named tubular member to determine the position of the latter in said bore, and means carried by said second named tubular member for supporting a lighting fixture element.

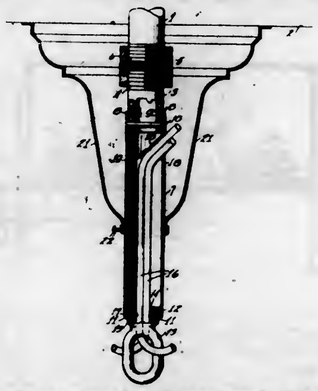
1,391,611. ELECTRIC FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Filed Nov. 12, 1920. Serial No. 423,638. 4 Claims. (Cl. 240—85.)



3. In an electric fixture, a fixed support, a tubular insulating member having diametrically opposed openings through its wall, a second tubular member arranged to incase the lower portion of said tubular insulating member and to depend therebelow, said second named tubular member having diametrically opposed openings through its walls adjacent to the upper end thereof arranged to register with the first named openings and having an aperture through its side wall at a spaced distance below said registering openings, a guiding clip disposed within the bore of said second named tubular member for guiding a flexible member through the lower aperture, said clip being provided with a portion extending through said lower aperture and arranged to lie along the outer wall of the second named tubular member, said extending portion having an opening therethrough adapted to register with the said registering openings, and means projected through the registering openings for maintaining the said elements in assembled position.

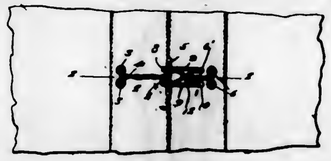
1,391,612. ELECTRIC FIXTURE. FRANK LOWELL BUTLER, Chicago, Ill. Filed Nov. 26, 1920. Serial No. 426,496. 3 Claims. (Cl. 240—85.)

3. In an electric fixture, a stem comprising a tubular member having a portion of its side wall displaced inwardly at a spaced distance from one end thereof to provide a lateral aperture in said wall and a relatively



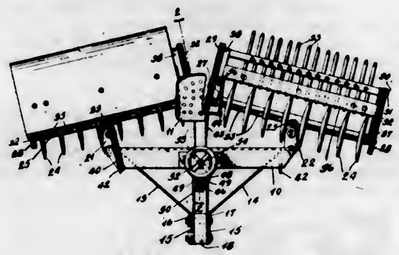
arranged guide member adapted to guide a flexible member from its bore through the lateral aperture, and means for connecting the tubular member to a fixed support.

1,391,613. HOOK AND EYE. CHARLES CHISHOLM, St. Cloud, Minn. Filed Aug. 24, 1920. Serial No. 405,566. 2 Claims. (Cl. 24—228.)



1. In a garment fastener, a hook including a shank having one of its ends looped and its other end provided with a lateral head, and an eye including a base which has one of its ends looped and formed with a jaw that overlies the base, said jaw having spring contacting members at approximately the center thereof and having an outer depressed portion to receive the shank of the hook when the same has been canted and brought over the base between the contacting portions of the jaw and arranged in parallelism with the eye.

1,391,614. EARTH-PULVERIZING MACHINE. HANS CHRISTENSEN, Chicago, Ill. Filed Nov. 16, 1920. Serial No. 424,529. 10 Claims. (Cl. 55—85.)



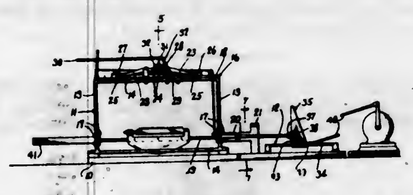
1. In a machine of the class described, a main frame, frames pivotally connected with each end of the main frame, a plurality of shafts mounted in each pivoted frame, means for imparting movement from one shaft to the adjacent shaft in the same frame, earth working devices mounted on said shafts, and means for changing the relative position of the pivoted frames.

1,391,615. SAFETY DEVICE FOR LOCKS. ATTILIO CONTE, Buenos Aires, Argentina. Filed July 16, 1920. Serial No. 396,740. 4 Claims. (Cl. 70—29.)



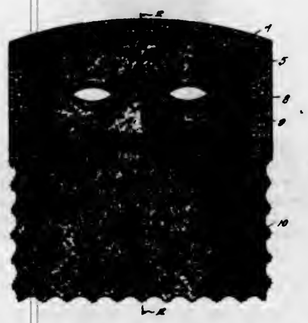
1. In a key-operated, spring latch lock, a safety device consisting of a helical cam caused to rotate by the action of the key, a pin adapted to block the latch bolt of the lock by penetrating into a hole formed in said bolt, said pin being provided with a finger adapted to engage with the cam, so that on the rotation of said cam the pin will be raised, a handle for operating the latch bolt when released, a boss provided with three grooves, and a projection formed integral with said pin for interchangeable engagement in said grooves whereby said pin may be caused to assume an operative position wherein its finger will be engageable by said cam, a second operative position in which its finger is out of the path of the cam, or a third position in which the pin will be held raised in inoperative position, substantially as above described and for the purposes set forth.

1,391,616. MEAT-CUTTING MACHINE. WILLIAM T. CREED, Irving, Tex. Filed Jan. 28, 1921. Serial No. 440,681. 5 Claims. (Cl. 17—24.)



1. A machine of the class described comprising a guide frame capable of vertical sliding movement; a cutting element mounted for reciprocatory movement therein, and means including a pair of pivoted fingers having a sliding engagement with the frame for adjusting the vertical position of the cutting element.

1,391,617. MASK. FRANKLIN MASON DESSART, Brooklyn, N. Y. Filed September 25, 1920. Serial No. 412,673. 1 Claim. (Cl. 2—119.)



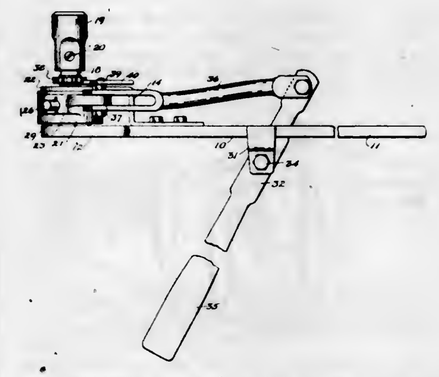
As an article of manufacture, a mask including a body portion adapted to overlie the eyes and nose of a wearer, a sheet of material forming a part of said body portion, and a liner affixed to the rear face of said material, said material being extended beyond the lower edge of said liner and the body portion, whereby to provide an integral apron.

1,391,618. UNDERGARMENT. LILLIAN FRANCES DOTY, La Grange, Ill. Filed Nov. 14, 1918. Serial No. 262,572. 3 Claims. (Cl. 2—144.)



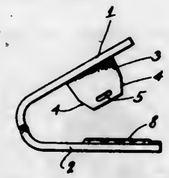
1. A nether garment made of knitted transversely elastic fabric and in which the fabric is so disposed as to be expansible transversely or laterally to provide increment in girth at the bust and around the abdomen, the garment being formed of symmetrical side gores each formed of a single piece and having a body and a leg area and a central gore substantially cruciform in outline extended from the thigh up the front and the back to the neck, said central gore being extended down to form the inside portions of the legs of the side gores.

1,391,619. RATCHET-WRENCH. LOUIS A. EDWINSON, Topeka, Kans. Filed May 28, 1921. Serial No. 473,519. 3 Claims. (Cl. 81—60.)



1. A ratchet wrench having a body provided at one end with a handle, a socket revolubly mounted at the other end of the body, an operating lever pivoted to the body, a main ratchet mechanism associated with the socket and operable by said lever, and an auxiliary ratchet mechanism also associated with the socket and operable through oscillations of said handle.

1,391,620. CUFF-BUTTON. CHARLES L. FAULK, Cleveland, Ohio. Filed May 17, 1920. Serial No. 381,952. 1 Claim. (Cl. 24—102.)



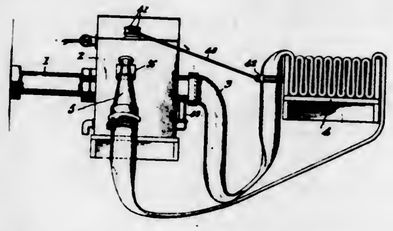
A cuff button comprising two plates having offset ends which are hingedly connected together, a shank on one of the plates, the other plate having a socket to receive the shank, spring influenced means disposed in the socket adjacent to the sides thereof, interengaging means between said spring means and the shank when the latter is received in the socket, whereby to lock the shank in the socket, and means arranged for movement between the locking means for spreading the latter and releasing the shank.

1,391,621. EXTENSION-RULE. FREDERICK HENRY FENWIRTH, New York, N. Y. Filed Jan. 26, 1920. Serial No. 354,029. 3 Claims. (Cl. 33—161.)



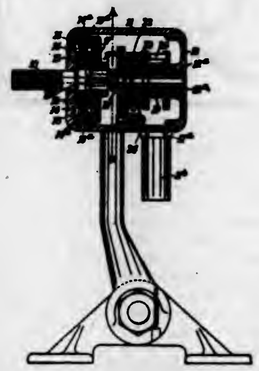
1. In an extension rule, a plurality of palallel members slidably secured, one to the other, and capable of independent axial movement, said members being provided with a plurality of recesses which register when adjacent members are in any one of a plurality of adjusted positions, and a plurality of tumblers slidably mounted in said recesses adapted to interlock the members when the rule is in one position and to drop to an unlocked position when the rule is inverted to a second position, said members being provided with graduations adapted to indicate the distance between points.

1,391,622. COMBINED FIRE-ALARM BOX AND HYDRANT. EDWARD E. FERGUSON, Portsmouth, Va., assignor of one-half to C. Van Fleming, Norfolk, Va. Filed Nov. 18, 1919. Serial No. 338,902. 8 Claims. (Cl. 177—382.)



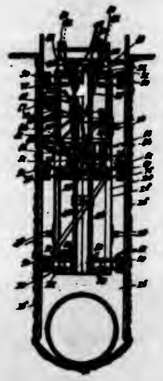
1. In combination, a service pipe, a valve therein, actuating means for the valve, a hose connected to the service pipe, a connection between the hose and actuating means for acting to open the valve, a fire alarm apparatus adjacent said actuating means, a nozzle for the hose normally acting to hold the alarm apparatus in an initial potential position, and means held in place by the alarm apparatus for preventing the movement of the actuating means, substantially as described.

1,391,623. SIGNALING APPARATUS FOR VEHICLES. HARRY FRYMAN, Grimsby, Lincoln, England. Filed Nov. 10, 1920. Serial No. 423,135. 4 Claims. (Cl. 116—35.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. Signaling apparatus for vehicles comprising indicators mounted on spindles at the front and rear of the vehicle, and operated from the control handle or wheel within reach of the driver, so that on turning the control handle the indicators will be correspondingly moved to the desired signaling position and a locking device for the indicator spindle to prevent movement of the indicator from one signaling position to another except by operation of the control device.

1,391,624. TRENCH-WALL-SUPPORTING MACHINE. SYDNEY BURT GARDNER, Benson, Minn. Filed June 14, 1920. Serial No. 389,042. 22 Claims. (Cl. 254—100.)



1. In a trench wall supporting machine, the combination of a pair of relatively movable sections adapted to be placed in a trench, expanding means for the sections to individually bind the same in the trench, and means for effecting the relative movement of the sections to advance the same in the trench upon the alternate anchoring of the sections in the trench by expansion.

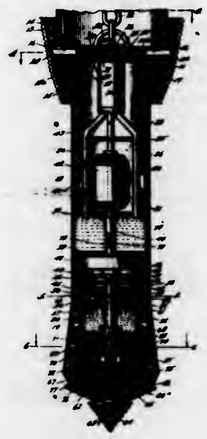
1,391,625. LOCKING HOOK. ALEXANDER L. GEISLER, Bristol, R. I. Filed Jan. 25, 1921. Serial No. 439,780. 3 Claims. (Cl. 24—230.5.)

1. A device of the character stated, comprising a strip of metal bent to form a spring loop, the ends of said strip being held against one another by the resiliency of the loop, an annular locking member adapted to encircle the two ends of the strip, one of said ends adapted



to be sprung laterally to permit the introduction or removal of the locking member, and means preventing the introduction or removal of the locking member when said end is not sprung laterally.

1,391,626. DRILL-HEAD FOR WELL-DRILLING APPARATUS. STANLEY C. GILTHORPE, New Orleans, La., assignor of one-third to Richard J. Bequette and one-third to Hunter C. Leake, New Orleans, La. Filed Apr. 27, 1920. Serial No. 377,039. Renewed Feb. 24, 1921. Serial No. 447,555. 8 Claims. (Cl. 255—19.)



1. In a well drilling apparatus, a drill head comprising a permanent section adapted to be detachably associated with a well casing for rotation therewith, and a rotary section carried by the permanent section for independent relative rotation.

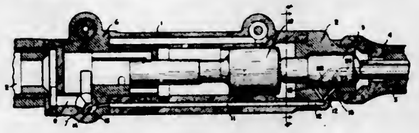
1,391,627. COW-POKE. CLINTON W. GORST, Black Earth, Wis. Filed Feb. 14, 1921. Serial No. 444,748. 1 Claim. (Cl. 119—138.)

A device of the class described comprising a pair of upright members, cross pieces connected with the upright members, bolts carried by each upright member, a strap movably mounted on the bolts, spring means for forcing the strap outwardly, pointed projections carried by each strap and the uppermost bolt on each upright being of



considerable length and projecting beyond the strap for engaging the fence wires if the animal should attempt to crawl under the fence.

1,391,628. PERCUSSIVE-TOOL. HARRY V. HAIGHT, Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed Dec. 17, 1918. Serial No. 267,186. 4 Claims. (Cl. 121—10.)



1. In a percussive tool, a front head construction comprising a front head, an anvil block slidably mounted therein, a water conduit leading through the side of the front head and the side of the anvil block to a point intermediate the length of said anvil block in a central passage extending to the forward end of the anvil block, for conducting water from the water conduit through the anvil block to a hollow drill steel, and means for producing currents of motive fluid under pressure flowing toward the water connection from each side of the water connection between the anvil block and front head, to prevent the water from passing in counter directions.

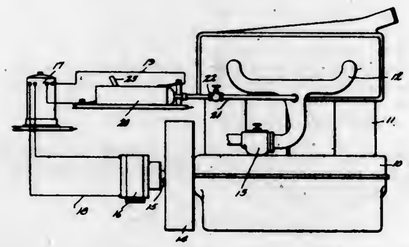
1,391,629. HAMMER-DRILL. HARRY V. HAIGHT, Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J., a Corporation of New Jersey. Filed May 5, 1919. Serial No. 294,740. 3 Claims. (Cl. 121—10.)



1. In a fluid operated percussive tool, a tool casing having a front head, a piston reciprocating therein, means for holding a drill steel at the front end of the tool, a conduit in the walls of the tool casing and front head leading to a point at the front end of the tool for conducting motive fluid, said conduit being turned at right angles in the front head at its front end in order

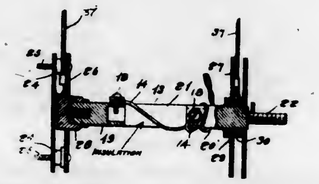
to discharge the motive fluid across the face of the tool substantially at right angles thereto, and means for confining and deflecting the stream to form a cross current around the shank of the steel in front of the operative parts of the tool and discharged from the side of the tool outwardly away from the hole being drilled, thereby preventing detritus and water from entering the said parts of the tool.

1,391,630. PROCESS AND APPARATUS FOR IMPROVING COMBUSTION IN EXPLOSIVE-ENGINES. WALTER WILLIAM HALES, New York, and ARTHUR HINE, Cedarhurst, N. Y.; said Hine assignor to said Hales. Filed Mar. 26, 1920. Serial No. 369,148. 1 Claim. (Cl. 123—119.)



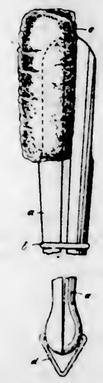
In a device of the class described, an explosive engine provided with an intake manifold, a pipe connected to said manifold, means for introducing vaporized fuel and air into said manifold, an ozone machine connected to said pipe, an alternating current generator operated by said engine, a transformer means connecting said generator, to said transformer for supplying an alternating current thereto, and connecting means between said transformer and said ozone machine for supplying a high voltage alternating current to said ozone machine.

1,391,631. EXTENSION ELECTRIC-LIGHT FIXTURE. ALFRED F. HAMMERSMITH, Chicago, Ill. Filed Aug. 6, 1918. Serial No. 248,573. 1 Claim. (Cl. 173—367.)



An extension electric light fixture comprising a stationary casing, a drum within said casing and composed of a central insulating member having reduced ends, and members mounted on said reduced ends, contact members employed to connect the end members with the central insulating member and serve as binding posts, said casing having a longitudinal slot, insulated feed wires connected with said binding posts and extending through said slot to carry a lamp, a cap bearing fitted over the outer extremity of one of said end members, a threaded extension carried by the other end member of the drum and extended outwardly of the end of the casing, an operating crank mounted on the end of said threaded extension, means for locking said drum against rotation, a stationary sleeve bearing for the last mentioned end member, current conducting wires threaded into said casing and connected with the bearings for the end members of the drum, said drum including head members serving to support the bearings for the drum end members, and means for forming a yielding contact between the drum end members and the bearings therefor.

1,391,632. DEVICE FOR HOLDING OR GRIPPING DISHCLOTHS OR THE LIKE. JOHN HANS, London, England, assignor of three-fourths to John Philip Haworth, London, England. Filed Apr. 11, 1921. Serial No. 460,474. 1 Claim. (Cl. 141—10.)



A dishcloth holder of the character described comprising two straight tapering sticks, the extreme narrow end of each stick being enlarged so that both together form a knob when assembled, a staple inserted in apertures in said knob so as to hold the sticks loosely together and serve as a suspending means, and a ring threaded on the sticks so that it can be used for clamping a dishcloth or the like between the thick ends of the sticks, the arrangement being such that the ring is permanently retained on the sticks between the thick end and the staple, substantially as set forth.

1,391,633. SCREWED MECHANISM. GEORGE HAZELTON, Portadown, Ireland. Filed Dec. 15, 1920. Serial No. 431,016. 4 Claims. (Cl. 74—40.)



1. Screwed mechanism in which the thread of the first engaging member is interrupted by an axial groove so that the thread is formed on the periphery of a rib, and the second engaging member is formed of two elements both having the engaging thread interrupted by an axial groove corresponding to the rib of the first engaging member, the said elements being capable of rotating relatively to each other along a spiral path of equivalent pitch to the threads of the engaging members so that in one setting the second member can be slidden axially along the first member and in another setting the second member will screw along the first member substantially as described.

1,391,634. LUBRICATING SYSTEM. HARRY J. HENDRICKS, Sterling Station, N. Y. Filed Nov. 15, 1920. Serial No. 424,164. 1 Claim. (Cl. 184—103.)

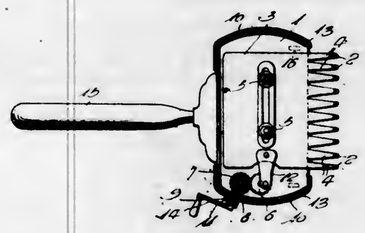
In combination with a vehicle engine having a conventional lubricating base, a supply tank, a lubricant conduit depending from said tank and into said vehicle engine base, and a ventilating pocket including a cylindrical

body one end of which passes through the wall of the engine base and is engaged with the lubricating conduit inside of the base, the opposite end of said cylindrical



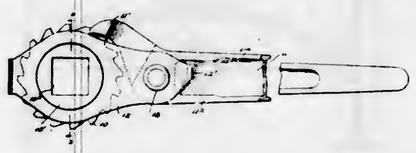
body issuing into a right angular cylindrical member outside of the case, one end of said right angular member extending into said engine base.

1,391,635. HAIR-CUTTER. JOHN W. HENRY, New York, N. Y. Filed Aug. 23, 1920. Serial No. 405,233. 1 Claim. (Cl. 30—1.)



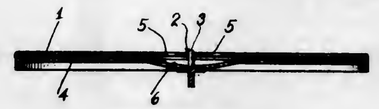
A device of the class described comprising a comparatively long stationary cutter plate provided at one end with a laterally extending flange which is in turn provided with a bearing, laterally extending screw-threaded studs carried by said plate, being disposed near the center thereof, a movable cutter slidable against the first named cutter and provided with a slot through which said studs extend, nuts on the threaded ends of said studs, intermeshing gears arranged on the first named cutter plate adjacent the aforesaid flange, a driving gear meshing with one of the first named gears and being disposed at right angles thereto, a shaft journaled in the aforesaid bearing, a hand crank connected with said shaft for rotating the latter, and a driving connection between said gears and movable cutter.

1,391,636. RATCHET-WRENCH. WILLIAM F. KIESEL, Jr., Altoona, Pa. Filed May 17, 1921. Serial No. 470,381. 1 Claim. (Cl. 81—58.)



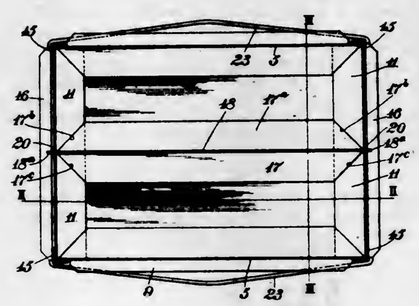
A ratchet wheel of the class described, comprising in combination, a work engaging ratchet member, a handle having an end comprising a pawl for engaging the said ratchet member and having an abutment, and a U-shaped housing pivotally attached to the handle and rotatably supporting the ratchet member, said housing having its ends inturned toward the handle and adapted to strike the abutment on the handle when the handle is moved in one direction to cause the handle and housing to move together, the pawl being disengaged from the ratchet upon movement of the handle in this direction and engaging the ratchet upon movement in the opposite direction.

1,391,637. PHONOGRAPHIC RECORD AND TABLE. BERTRAM J. KIFFE, Mankato, Minn. Filed May 15, 1920. Serial No. 381,604. 3 Claims. (Cl. 274—42.)



3. A phonograph turn table having a recess formed at its upper face adjacent the center thereof and a record for engaging the table, said record having a finger hole formed therein adjacent the center thereof.

1,391,638. MOLD FOR CONCRETE BLOCKS. MORRIS J. KILLITS, Columbus, Ohio, assignor to The S. P. Stone Company, Columbus, Ohio, a Corporation of Ohio. Filed Apr. 2, 1919. Serial No. 286,866. 3 Claims. (Cl. 25—121.)

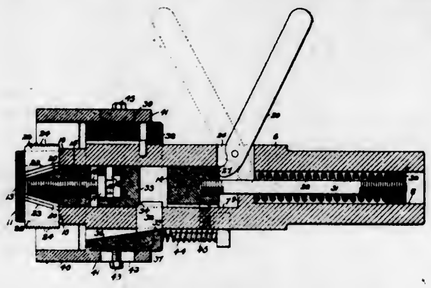


1. A mold for concrete blocks, comprising, in combination, separable sides and ends of sheet metal bent to form hollow cores, the cores of the ends having beveled ends to engage the cores of the sides and an intermediate core member having beveled ends to engage the cores of the sides and bowed spring clamping bars beyond the ends to hold the sides engaged with the ends.

1,391,639. COLLAPSIBLE TAP. VICTOR R. KOONTZ, Waynesboro, Pa., assignor to The Victor Tool Company, Waynesboro, Pa., a Corporation of Pennsylvania. Filed June 3, 1920. Serial No. 386,205. 10 Claims. (Cl. 10—145.)

10. In a collapsible tap, the combination with a stock, of a plurality of threading elements slidable transversely therein and having beveled inner ends, a plunger slidable longitudinally in the stock and having a tapered end operating on the beveled ends of the elements, a spring for moving the plunger in one direction, a transverse dog slidably mounted in the stock and having a beveled

inner end engaging the plunger for controlling its movement by the spring, and a sleeve slidable on the plunger



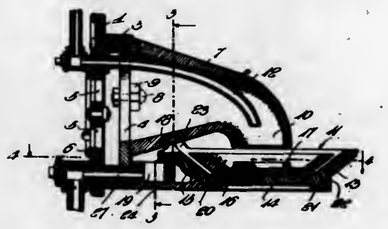
and having a beveled portion against which the outer end of the dog bears to control its movement.

1,391,640. SNAP-FASTENER. HARRY H. KRECHMER and WILLIAM E. COHEN, Philadelphia, Pa. Filed May 28, 1920. Serial No. 385,048. Renewed June 28, 1921. Serial No. 481,167. 2 Claims. (Cl. 24—208.)



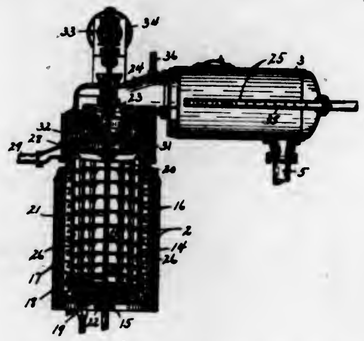
2. A snap fastener comprising a cupped female member having a socket and spring means coöperating therewith and also having an interior head on its edge, and a male member having a head and also having a guard of angular form in cross section arranged to straddle the periphery of the female member and terminating at its end in a bead arranged at the inner side of said end and adapted to spring into and out of engagement with the bead of the first-named member.

1,391,641. OIL-BURNER. CURTIS C. LILLIBRIDGE, Hutchinson, Kans. Filed May 20, 1920. Serial No. 382,964. 3 Claims. (Cl. 158—91.)



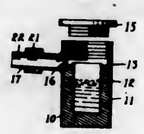
1. A device of the class described comprising a horizontal bracket, a substantially horizontal air supply neck fixed at one end and extending over said bracket in close proximity thereto, the other end of said neck being downwardly turned, said bracket having an overflow pan under the fixed end of said neck, and a burner resting on said bracket under said downwardly turned end of said neck, said burner having an overflow spout adapted to extend over the edge of said overflow pan, said burner being additionally provided with spaced lugs adapted to straddle said neck to properly position said spout.

1,391,642. CONCENTRATED BUTTERMILK. IRVING S. MERRELL, Syracuse, N. Y., assignor to Merrell-Soule Company, Syracuse, N. Y., a Corporation of New York. Original application filed Apr. 8, 1916, Serial No. 89,901. Divided and this application filed June 10, 1920. Serial No. 387,938. 3 Claims. (Cl. 99—5.)



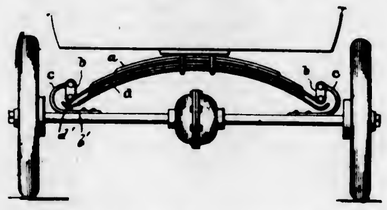
3. As a new product, a concentrated buttermilk of smooth and uniform appearance, the dissolution of whose constituents has been arrested.

1,391,643. OIL-CUP. RALPH H. ROBINSON, Jamestown, N. Y. Filed Nov. 8, 1920. Serial No. 422,474. 4 Claims. (Cl. 184—69.)



4. An oil cup for bolts and similar parts in automobiles comprising a receptacle having an annular groove around its inner periphery near the upper portion thereof to provide an oil holding receptacle below said groove, said receptacle having a diminutive hole through the side thereof into said groove which enlarges outwardly, a tubular conduit attached to said oil cup around said diminutive hole at an angle of inclination to conduct the oil to the part to be lubricated, a removable cap for said receptacle, said tubular conduit having an angular portion thereon for attaching said oil cup to the part to be lubricated.

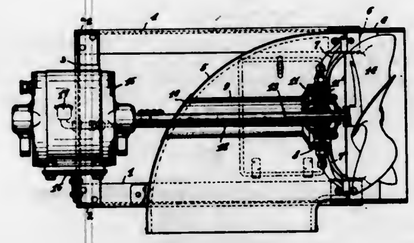
1,391,644. VEHICLE-SPRING. STEPHEN ARTHUR THRELKELD, Hutchinson, Kans., assignor of one-half to Rosco S. Threlkeld, Hutchinson, Kans. Filed Feb. 13, 1920. Serial No. 358,385. 5 Claims. (Cl. 267—45.)



1. A vehicle spring appliance comprising a main bow spring, a supplemental bow spring curved to substantially

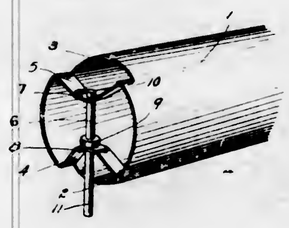
correspond with the main spring and fitted against its inner side and rigidly secured to the main spring at the centers of the two springs, the two springs being of approximately the same length, the extremities of the inner, supplemental, spring being shaped to lie under the end eyes of the main spring and disconnected therefrom and be engaged with said end eyes when the main spring is deflected.

1,391,645. EXHAUSTER. HARRY S. WHELLER, Elizabeth, N. J., assignor to L. J. Wing Mfg. Co., New York, N. Y., a Corporation of New York. Filed May 8, 1920. Serial No. 379,882. 7 Claims. (Cl. 230—11.)



1. An exhauster, comprising a pipe through which the gases to be exhausted are drawn, a fan having a bearing located within said pipe and spaced inwardly from the wall of said pipe, a tube extending from said bearing to and through the wall of said pipe, and means for rotating said fan to cause a suction through said pipe and through said tube.

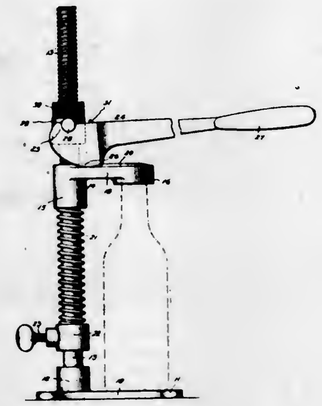
1,391,646. STOVEPIPE-FASTENER. EDWIN H. WOLFF, El Dorado, Kans., assignor of one-half to Sank Clark, Kingsville, Kans. Filed Aug. 11, 1920. Serial No. 402,770. 4 Claims. (Cl. 126—318.)



1. A stove pipe having inbent webs at one end, and a bolt mounted and slidable in the webs and movable in one direction to extend beyond the perimeter of the pipe and movable in the opposite direction to a position within the perimeter of the pipe.

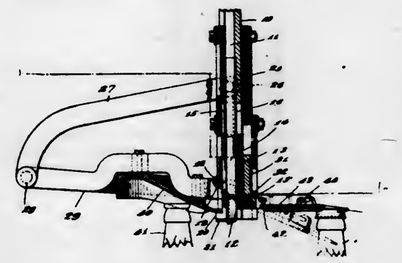
1,391,647. BOTTLE-CAPPING MACHINE. HORACE K. CURTIS and LOUIS T. HUNTER, Chappaqua, N. Y., assignors of one-third to John I. D. Bristol, Chappaqua, N. Y. Filed May 24, 1921. Serial No. 472,126. 9 Claims. (Cl. 226—84.)

1. In a bottle capping machine, the combination of a standard, a follower movable therealong parallel to the axis thereof, an actuator for moving the follower and movable around the axis of the standard as well as being pivoted for movement around an axis perpendicular to said axis of the standard, a fulcrum member coöperating with the actuator for applying power therethrough, and an adjustment member fitted adjustably upon the standard and



serving as a resistance for the fulcrum member when power is applied to the follower.

1,391,648. CAP-FEEDER FOR BOTTLE-CAPPERS. EDWARD F. EDGECOMBE, Jr., Indianapolis, Ind., assignor to Meier-Gaynor Mfg. Co., Indianapolis, Ind., a Corporation of Indiana. Filed Oct. 20, 1920. Serial No. 418,331. 8 Claims. (Cl. 226—88.1.)

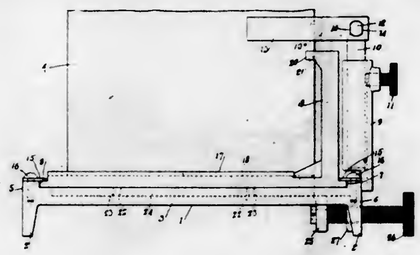


1. Cap-applying mechanism comprising a vertically yieldable support for a cap comprising a fulcrum and means for supporting the cap with a portion extending below the fulcrum, means for driving packages successively beneath the cap fulcrum and into engagement with the supported cap, a shoe arranged in the path of travel of the package preceding the cap for controlling the vertical position of the cap by the height of the cap-receiving portion of the package, a flexible shoe arranged to engage the applied caps, and one-way interengaging members carried by the cap support and the shoe support.

1,391,649. BATTERY-PLATE-BURNING RACK. HARRY A. HAHN, Greenville, Ohio. Filed Feb. 13, 1920. Serial No. 358,520. 11 Claims. (Cl. 113—59.)

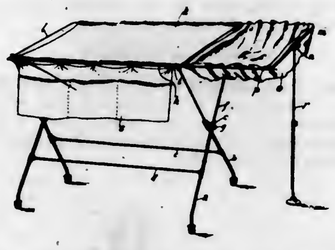
1. In a device of the character deacribed the combination with the frame thereof, and an operating member supported in said frame, of a plurality of plate supporting racks operable in said frame and having connections with the operating member, whereby upon the actuation of the

operating member the plate supporting racks will be adjusted relative to each other, and a corresponding plural-



ity of coöperating plate members having connections with the frame member whereby the same may be adjusted relative to the supporting racks.

1,391,650. INFANT'S TABLE. HOBART G. TRUESDELL and MYRON H. VAN WORMER, Suffield, Conn. Filed Dec. 6, 1919. Serial No. 343,124. 2 Claims. (Cl. 45—11.)



1. A folding table comprising pairs of crossed pivoted legs, side bars connecting the corresponding legs of each pair, a webbing attached at its edges to said bars, a U-shaped brace to hold said pairs of legs in extended position and having its arms telescoping on said side bars, and a bath tub of fabric removably carried by said brace.

1,391,651. ARTIFICIAL TOOTH. FRANCIS CARLING, Belfast, Ireland. Filed Oct. 28, 1920. Serial No. 420,268. 1 Claim. (Cl. 32—9.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



An artificial tooth having a solid rearward projection which tapers rearwardly from the neck and cutting edge of the tooth to a flat central portion and has an undercut cavity at each side of the projection, and a securing pin secured in said projection.

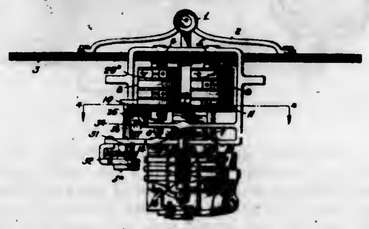
1,391,652. ELECTRICAL TRANSMISSION SYSTEM. ELEMER MEITNER, Brooklyn, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Oct. 3, 1917. Serial No. 194,466. 16 Claims. (Cl. 177—351.)

2. In combination, impulse transmitting mechanism, a step-by-step repeating device of a predetermined number of steps per revolution, said repeating device being connected to said mechanism, and means, including another



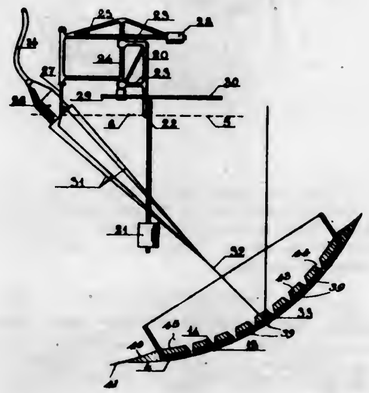
step-by-step repeating device connected to said first mentioned device, for increasing the number of steps per revolution of said first mentioned device.

1,391,653. SHOCK-ABSORBING TRANSMISSION MECHANISM. ELEMER MEITNER, New York, N. Y., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y., a Corporation of New York. Filed Sept. 14, 1918. Serial No. 254,157. 16 Claims. (Cl. 64—90.)



1. In a shock absorbing device, a driving part, a movable member having a projection thereon, resilient means connecting said member and part for moving said member in response to movement of said part in one direction, a second movable member, a stop thereon normally engaged by said projection, a driven part, and means connecting said driven part and said second movable member.

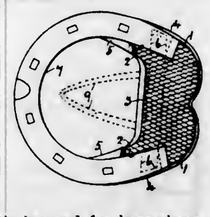
1,391,654. SUBMARINE LISTENING APPARATUS. GEORGES WALSER, Paris, France. Filed Apr. 11, 1919. Serial No. 289,475. 4 Claims. (Cl. 181—0.5.)



1. A device for transmitting, uniformly refracting and concentrating into a focus sonorous waves from the water into the air comprising, a plurality of small identical diaphragms for transmitting the sonorous vibrations, arranged in contact at one side with the water and at the other side with the air, and also arranged adjacent to, but

insulated from each other, and located tangentially to a geometric surface having a focus of refraction distinct for each direction of propagation of the waves received, an acoustic receiver moving upon the spot of the foci of the said surface; and a support for said diaphragm.

1,391,655. HORSESHOE-PAD. EDWARD SINFIELD and WILLIAM HENRY GOLDFINCH, London, England, assignors of one-third to Alick Wellstead Capener, London, England. Filed May 21, 1918. Serial No. 235,905. 3 Claims. (Cl. 168—28.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An elastic bar-pad for horseshoes, comprising a rubber pad and a backing, designed to cover the rear of the frog and to inclose the heel ends of the shoe, there being lateral extensions on said backing for engagement between the hoof and the shoe, lateral recesses in said pad for receiving the heel ends of the shoe, a wedge-like extension of the pad intermediate of said heel ends, which firmly interlocks therewith, and metal reinforcements in said pad the ends whereof extend into said lateral recesses and form bearings for the shoe heels.

1,391,656. [WITHDRAWN.]

1,391,657. [WITHDRAWN.]

REISSUES.

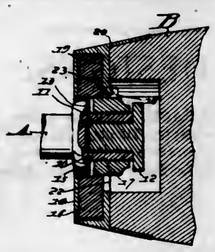
15,197. SHOCK-ABSORBER. HARRY CROSS, Woodstock, Ill. Filed June 23, 1921. Serial No. 479,925. Original No. 1,326,850, dated Dec. 30, 1919, Serial No. 327,877, filed Oct. 2, 1919. 12 Claims. (Cl. 188—130.)



2. In a shock absorber, a casing including a friction track, a hub in said casing, a drum in said casing, a pin in said hub, a coiled spring surrounding said hub, an arm fixed to and extending laterally from said pin and anchored in said casing, a belt secured at one of its ends to said drum, the opposite end thereof extending over the friction track in the casing, and means for anchoring the free end of the belt to an axle, substantially as set forth.

15,198. ARTIFICIAL-LIMB JOINT. DAVID W. DORRANCE, San Jose, Calif. Filed Jan. 8, 1920. Serial No. 350,220. Original No. 1,271,448, dated July 2, 1918, Serial No. 130,739, filed Nov. 11, 1916. 12 Claims. (Cl. 279—93.)

1. A coupling of the character described comprising separable male and female members, said male member having a stud, a resilient gasket loose on the stud, means for supporting the gasket, and a locking member adjustable on the stud, said female member including a web

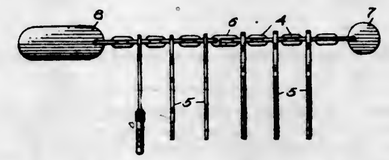


for locking engagement with the locking member which is movable to effect binding action of itself and the gasket upon the web.

15,199. MOLDING COMPOSITION. JAMES P. A. MCCOY, Milwaukee, Wis., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 13, 1920. Serial No. 424,338. Original No. 1,300,218, dated Apr. 8, 1919, Serial No. 20,752, filed Apr. 12, 1915. 15 Claims. (Cl. 106—15.)

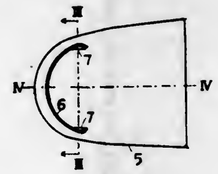
7. A molded electric insulator containing cumaron resin as an essential constituent.

15,200. KEY-HOLDER. CHARLES L. PEIRCE, Jr., Pittsburgh, Pa. Filed Aug. 4, 1921. Serial No. 489,871. Original No. 1,352,622, dated Sept. 14, 1920, Serial No. 284,319, filed Mar. 22, 1919. 5 Claims. (Cl. 59—97.)



4. A key holder comprising two lengths of chain, a detachable connector for joining said lengths together and key stops for the opposite ends of the joined chain.

15,201. REPAIR-PATCH FOR RUBBER FOOTWEAR. JAMES ROBERTSON, Jr., Weehawken, N. J. Filed Feb. 10, 1921. Serial No. 444,054. Original No. 1,354,846, dated Oct. 5, 1920, Serial No. 374,519, filed Apr. 17, 1920. 3 Claims. (Cl. 36—59.)



1. A repair patch for footwear comprising a tread portion rounded at one end and having a flexible and elastic flange upstanding from the rounded end of the tread portion and having the bottom margins at its ends joined to the tread portion at a distance from the margin of the tread portion and sufficiently thin and flexible to have a bending line at its juncture with the tread portion whereby the flange can be brought into contact with the sides

of the footwear when it is narrow and may be brought into contact with the projecting margins of the tread portion to accommodate wider footwear, substantially as described.

DESIGNS.

59,053. DISPLAY-RACK. ERHARD ALLEN, Dayton, Ohio, assignor to The Dayton Display Fixture Company, Dayton, Ohio, a Corporation of Ohio. Filed Jan. 31, 1921. Serial No. 441,483. Term of patent 14 years.



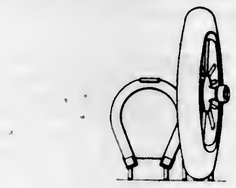
The ornamental design for a display rack as shown.

59,054. CHAIN PULL FOR ELECTRICAL-LAMP SOCKETS. LOUISE R. ALLEN, New York, N. Y. Filed Feb. 18, 1921. Serial No. 446,193. Term of patent 3½ years.



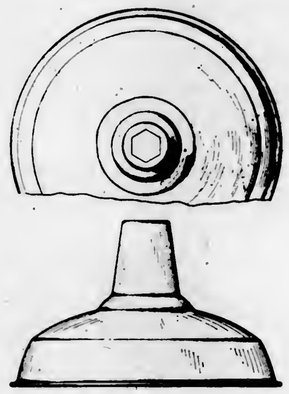
The ornamental design for a chain pull for electrical lamp sockets, as shown.

59,055. ADVERTISING-SIGN. JOSEPH T. AULTMAN, Milwaukee, Wis. Filed Jan. 17, 1921. Serial No. 438,020. Term of patent 7 years.



The ornamental design for an advertising sign, as shown.

59,056. REFLECTOR. REUBEN B. BENJAMIN, Chicago, Ill., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Feb. 2, 1920. Serial No. 355,781. Term of patent 14 years.



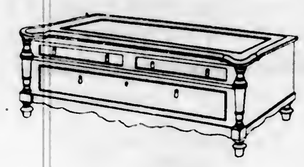
The ornamental design for a reflector, substantially as shown.

59,057. CLOTHES-CHEST. GEORGE E. BERGSTROM, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,598. Term of patent 14 years.



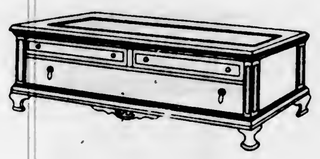
The ornamental design for a clothes chest as shown.

59,058. CLOTHES-CHEST. GEORGE E. BERGSTROM, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,590. Term of patent 14 years.



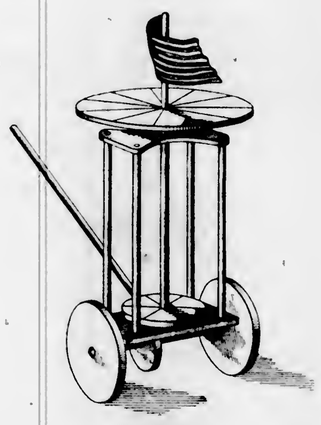
The ornamental design for a clothes chest as shown.

59,059. CLOTHES-CHEST. GEORGE E. BERGSTROM, Chicago, Ill. Filed Feb. 28, 1921. Serial No. 448,600. Term of patent 14 years.



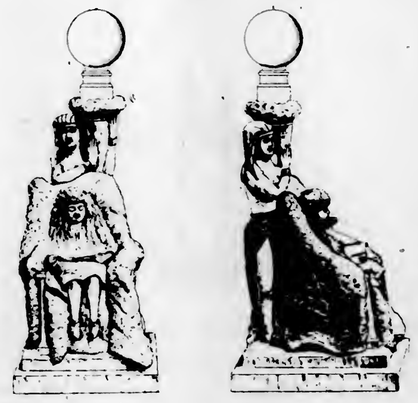
The ornamental design for a clothes chest as shown.

59,060. REVOLVING-DISK DISPLAY TOY. HUGO C. BLOCK, Watertown, Wis. Filed Aug. 9, 1920. Serial No. 402,437. Term of patent 3½ years.



The ornamental design for a revolving disk display toy, as shown.

59,061. LAMP. JOSEPH I. PAPALE and GEORGE CAMPBELL, San Francisco, Calif. Filed Dec. 15, 1920. Serial No. 430,978. Term of patent 3½ years.



The ornamental design for a lamp, as shown.

59,062. SPARE-TIRE LOCK FOR AUTOMOBILES. EARLE E. CHAPMAN, Los Angeles, Calif., assignor to Miller-Chapman Company, a Corporation of California. Filed Nov. 10, 1920. Serial No. 423,211. Term of patent 14 years.



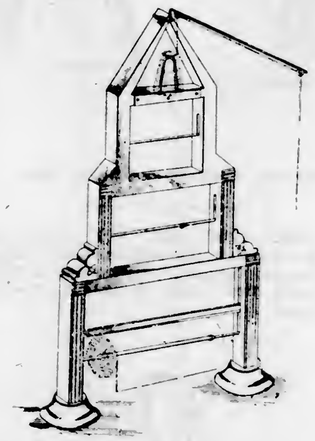
The ornamental design for a spare tire lock for automobiles, as shown.

59,063. **ARM OF A WALL-BRACKET FOR LIGHTING-FIXTURES.** HARRY COHN, Brooklyn, N. Y., assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Mar. 14, 1921. Serial No. 452,326. Term of patent 7 years.



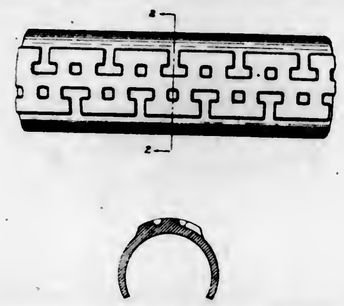
The ornamental design for an arm of a wall bracket for lighting fixtures, as shown.

59,064. **FRAME FOR A PAPER-CUTTER OR SIMILAR ARTICLE.** ARVID G. DANIELSON, Willmar, Minn. Filed Dec. 14, 1920. Serial No. 430,767. Term of patent 7 years.



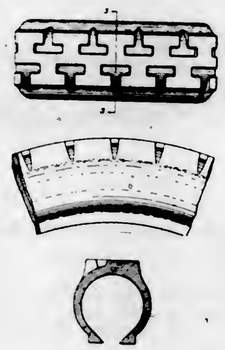
The ornamental design for a frame for a paper cutter or similar article, as shown.

59,065. **TIRE-TREAD.** WILLIAM M. DOUCETTE, Yonkers, N. Y. Filed July 29, 1920. Serial No. 399,899. Term of patent 14 years.



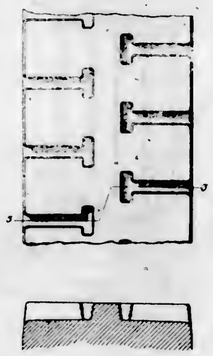
The ornamental design for a tire tread, as shown.

59,066. TIRE-TREAD. WILLIAM M. DOUCETTE, New York, N. Y. Filed Dec. 18, 1920. Serial No. 431,770. Term of patent 14 years.



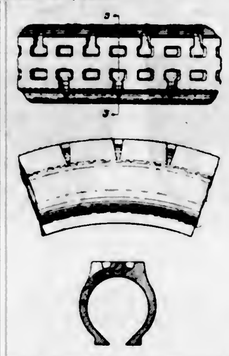
The ornamental design for a tire-tread as shown.

59,067. TIRE-TREAD. WILLIAM M. DOUCETTE, New York, N. Y. Filed Dec. 18, 1920. Serial No. 431,772. Term of patent 14 years.



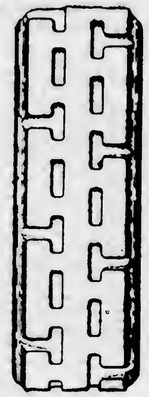
The ornamental design for a tire-tread as shown.

59,068. **TIRE-TREAD.** WILLIAM M. DOUCETTE, New York, N. Y. Filed Dec. 18, 1920. Serial No. 431,771. Term of patent 14 years.



The ornamental design for a tire-tread as shown.

59,069. TIRE-TREAD. WILLIAM M. DOUCETTE. New York, N. Y. Filed Feb. 15, 1921. Serial No. 445,269. Term of patent 14 years.



The ornamental design for a tire-tread as shown.

59,070. **FEED-THROUGH SWITCH.** JOHN B. DOWNING, Newark, N. J., assignor to Beaver Machine & Tool Company, Newark, N. J., a Corporation of New Jersey. Filed Apr. 19, 1921. Serial No 462,711. Term of patent 7 years.



The ornamental design for a feed-through switch, as shown.

59,071. **BOTTLE.** EMILY DUKE, New York, N. Y., assignor to Colgate & Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 21, 1921. Serial No. 446,963. Term of patent 7 years.



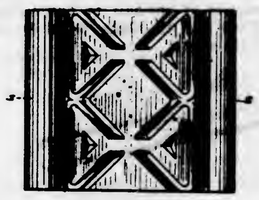
The ornamental design for a bottle substantially as shown.

59,072. **BLADE FOR GRASS-HOOKS.** HORATIO S. EARLE, Detroit, Mich. Filed Sept. 12, 1918. Serial No. 253,833. Term of patent 14 years.



The ornamental design for a blade for grass hooks substantially shown and described.

59,073. **TIRE-TREAD.** SAMUEL T. EHRLICH, Newark, N. J. Filed May 19, 1921. Serial No. 470,908. Term of patent 14 years.





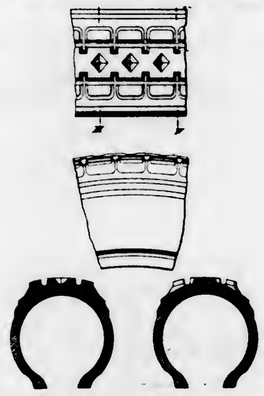
The ornamental design for a tire tread, as shown.

59,074. STAFF-HEAD. HARRY J. GALLAGHER, Kokomo, Ind., assignor to Kokomo Brass Works, Kokomo, Ind., a Corporation of Indiana. Filed May 16, 1921. Serial No. 470,007. Term of patent 14 years.



The ornamental design for a staff head as shown.

59,075. TIRE-TREAD. CHARLES T. GARDNER, New York, N. Y., assignor to Ajax Rubber Company, Inc., Millbrook, N. Y., a Corporation of New York. Filed Apr. 2, 1921. Serial No. 458,046. Term of patent 14 years.



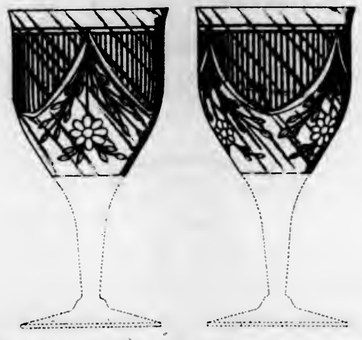
The ornamental design for a tire tread, substantially as shown.

59,076. KITCHEN-TOOL. CLARENCE L. GRAVES, Eland, Wis., assignor of one-half to Lavea Oleson, St. Paul, Minn. Filed Apr. 15, 1921. Serial No. 461,694. Term of patent 14 years.



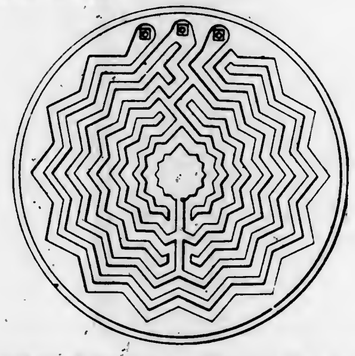
The ornamental design for a kitchen tool as shown and described.

59,077. SURFACE ORNAMENTATION FOR A GLASS GOBLET OR SIMILAR ARTICLE. J. WILLARD GROVES, Barnesville, Ohio, assignor to The Lotus Cut Glass Co., Barnesville, Ohio. Filed Mar. 17, 1921. Serial No. 453,152. Term of patent 3½ years.



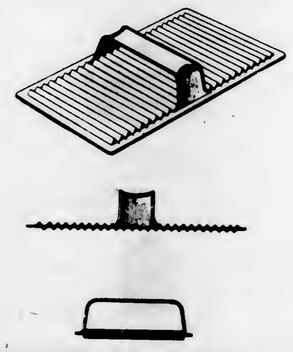
The ornamental design for the surface ornamentation for a glass goblet or similar article, as shown.

59,078. ELECTRIC-PLATE. LOUIS R. HAMLIN, Kokomo, Ind., assignor to The Globe Stove & Range Co., Kokomo, Ind. Filed Apr. 2, 1921. Serial No. 458,042. Term of patent 14 years.



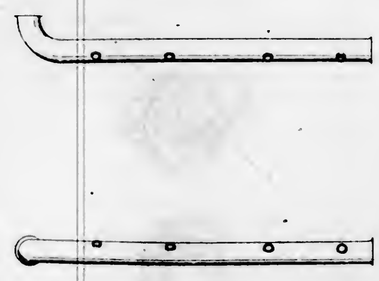
The ornamental design for an electric plate, as shown.

59,079. HAND-WASHBOARD. WARREN A. HARWI, Atchison, Kans. Filed Jan. 8, 1920. Serial No. 350,221. Term of patent 7 years.



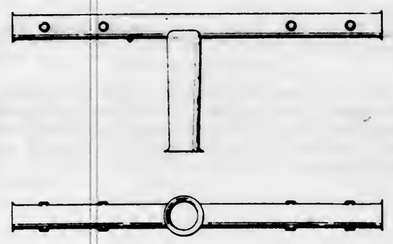
The ornamental design for a hand washboard as shown.

59,080. IGNITION-WIRE MANIFOLD. CURTIS E. HENDRICKS, Southport, Ind. Filed Oct. 16, 1920. Serial No. 417,518. Term of patent 14 years.



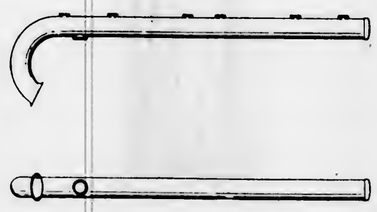
The ornamental design for an ignition wire manifold, as shown.

59,081. IGNITION-WIRE MANIFOLD. CURTIS E. HENDRICKS, Southport, Ind. Filed Oct. 16, 1920. Serial No. 417,519. Term of patent 14 years.



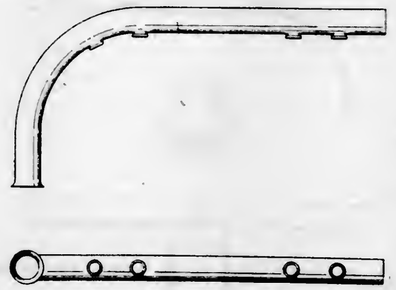
The ornamental design for an ignition wire manifold, as shown.

59,082. IGNITION-WIRE MANIFOLD. CURTIS E. HENDRICKS, Southport, Ind. Filed Oct. 16, 1920. Serial No. 417,520. Term of patent 14 years.



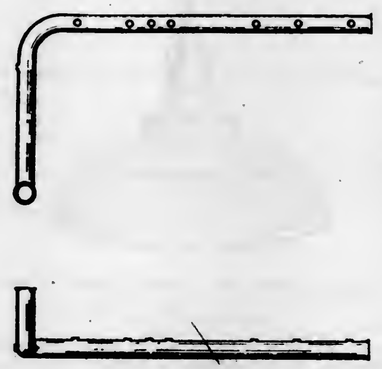
The ornamental design for an ignition wire manifold, as shown.

59,083. IGNITION-WIRE MANIFOLD. CURTIS E. HENDRICKS, Southport, Ind. Filed Oct. 16, 1920. Serial No. 417,521. Term of patent 14 years.



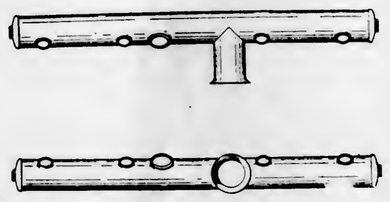
The ornamental design for an ignition wire manifold, as shown.

59,084. IGNITION-WIRE MANIFOLD. CURTIS E. HENDRICKS, Southport, Ind. Filed Oct. 16, 1920. Serial No. 417,522. Term of patent 14 years.



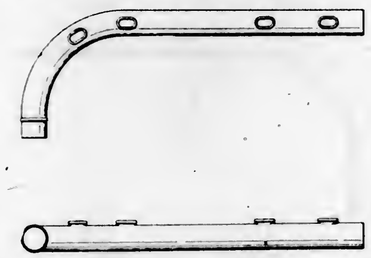
The ornamental design for an ignition wire manifold, as shown.

59,085. IGNITION-WIRE MANIFOLD. CURTIS E. HENDRICKS, Southport, Ind. Filed Oct. 16, 1920. Serial No. 417,523. Term of patent 14 years.



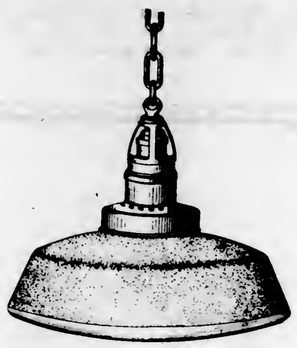
The ornamental design for an ignition wire manifold, as shown.

59,086. IGNITION-WIRE MANIFOLD. CURTIS E. HENDRICKS, Southport, Ind. Filed Oct. 16, 1920. Serial No. 417,524. Term of patent 14 years.



The ornamental design for an ignition wire manifold, as shown.

59,087. LIGHTING-FIXTURE. SAMUEL G. HIBBEN, Bloomfield, N. J. Filed Jan. 27, 1921. Serial No. 440,510. Term of patent 3½ years.



Ornamental design for a lighting fixture, as shown.

59,088. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,748. Term of patent 3½ years.





The ornamental design for a talcum powder box, as shown.

59,089. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,750. Term of patent 3½ years.





The ornamental design for a talcum powder box, as shown.

59,090. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Nov. 12, 1920. Serial No. 423,751. Term of patent 3½ years.





The ornamental design for a talcum powder box, as shown.

59,091. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,447. Term of patent 3½ years.





The ornamental design for a talcum powder box, as shown.

59,092. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,449. Term of patent 3½ years.





The ornamental design for a talcum powder box, as shown.

59,093. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,454. Term of patent 3½ years.





The ornamental design for a talcum powder box, as shown.

59,094. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,457. Term of patent 3½ years.





The ornamental design for a talcum powder box, as shown.

59,095. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,466. Term of patent 3½ years.



The ornamental design for a talcum powder box as shown.

59,096. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,469. Term of patent 3½ years.



The ornamental design for a talcum powder box as shown.

59,097. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,470. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,098. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,474. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,099. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,478. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,100. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,487. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,101. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,489. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,102. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,493. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,103. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,495. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,104. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,505. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,105. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,507. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,106. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,510. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,107. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,511. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,108. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,515. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,109. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,517. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,110. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,518. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,111. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,522. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,112. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,523. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,113. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,524. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,114. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,527. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,115. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,528. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,116. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,533. Term of patent 3½ years.



The ornamental design for a talcum powder box, as shown.

59,117. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,536. Term of patent 3½ years.



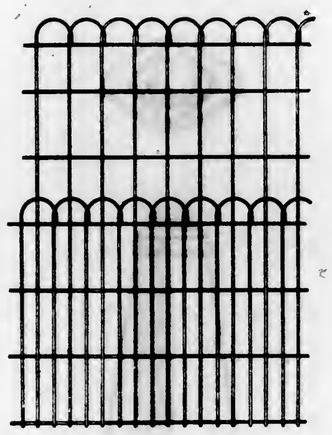
The ornamental design for a talcum powder box as shown.

59,118. TALCUM-POWDER BOX. JOHN M. HOTHERSALL, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a Corporation of New Jersey. Filed Dec. 13, 1920. Serial No. 430,537. Term of patent 3½ years.



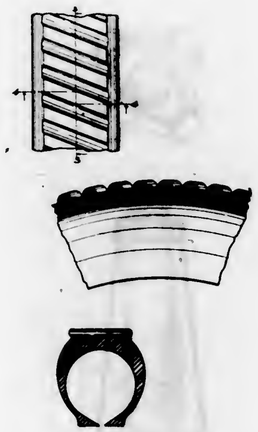
The ornamental design for a talcum powder box, as shown.

59,119. WIRE FENCE. AUGUST G. JOHNSON, Monessen, Pa. Filed Oct. 24, 1918. Serial No. 259,500. Term of patent 14 years.



The ornamental design for a wire fence, as shown.

59,120. TIRE-TREAD. KEAMON KUROSE, Seattle, Wash. Filed Nov. 24, 1920. Serial No. 426,296. Term of patent 7 years.



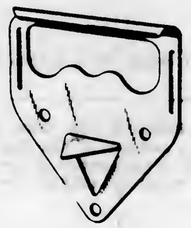
The ornamental design for a tire tread, as shown.

59,121. LAMP. CHARLES WILLIAM LA ROCHE, Philadelphia, Pa., assignor of one-half to J. Nicholas Meyers, Philadelphia, Pa. Filed Jan. 25, 1921. Serial No. 439,866. Term of patent 3½ years.



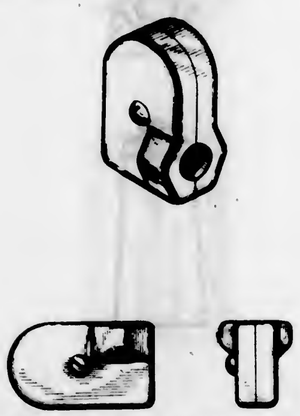
The ornamental design for a lamp, as shown.

59,122. HANDLE. PAUL M. MARKO, Brooklyn, N. Y. Filed Apr. 12, 1921. Serial No. 460,814. Term of patent 7 years.



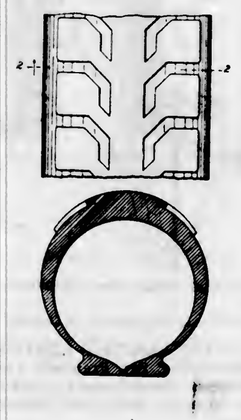
The ornamental design for a handle, as shown.

59,123. CASING FOR A RADIATOR AIR-VALVE. PAUL MIRK, New York, N. Y. Filed Nov. 16, 1920. Serial No. 424,566. Term of patent 14 years.



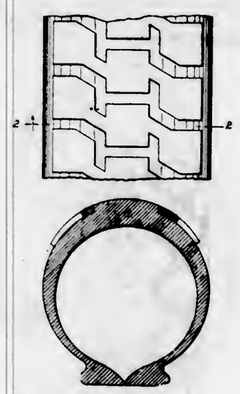
The ornamental design for a casing for radiator air-valve, substantially as shown.

59,124. TIRE-TREAD. WILLIAM J. MURPHY, Cedar Falls, Iowa. Filed Apr. 4, 1921. Serial No. 458,546. Term of patent 14 years.



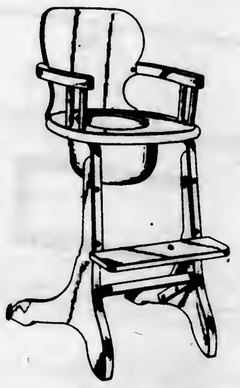
The ornamental design for a tire tread, as shown.

59,125. TIRE-TREAD. WILLIAM J. MURPHY, Cedar Falls, Iowa. Filed Apr. 4, 1921. Serial No. 458,547. Term of patent 14 years.



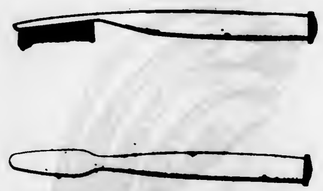
The ornamental design for a tire tread as shown.

59,126. TOILET-CHAIR. ALBERT L. MORTON, Springfield, Ill. Filed Jan. 28, 1921. Serial No. 440,817. Term of patent 14 years.



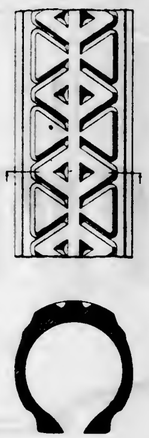
The ornamental design for a toilet chair as shown.

59,127. TOOTHBRUSH. JOSEPH E. PERRAULT, Northampton, Mass. Filed Apr. 10, 1920. Serial No. 373,010. Term of patent 7 years.



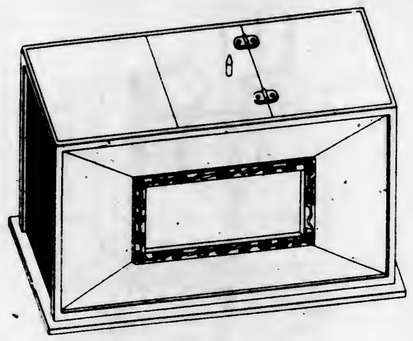
The ornamental design for a toothbrush, as shown.

59,128. TIRE-CASING. ELMER A. REID, Trenton, N. J., assignor to Ajax Rubber Company, Inc., Millbrook, N. Y., a Corporation of New York. Filed Dec. 30, 1919. Serial No. 348,500. Term of patent 14 years.



The ornamental design for a tire casing, substantially as shown.

59,129. SELF-SETTING MOUSETRAP. LUCAS ROMANSON, Fisherton, Manitoba, Canada. Filed May 4, 1921. Serial No. 466,705. Term of patent 7 years.



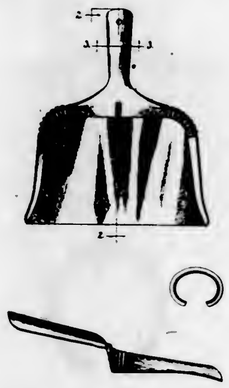
The ornamental design for a self-setting mousetrap as shown.

59,130. STAND FOR DISPLAYING ARTICLES OF MERCHANDISE. LOUIS ALBERT SAMSTAG, New York, N. Y. Filed Mar. 20, 1920. Serial No. 367,497. Term of patent 14 years.



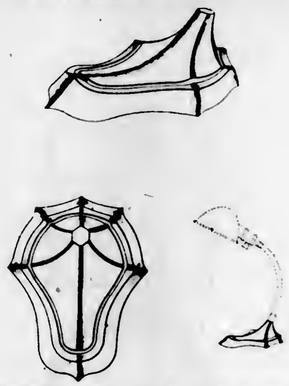
The ornamental design for a stand for displaying articles of merchandise as shown.

59,131. DUSTPAN. ORESTE SCALISE, Chicago, Ill. Filed Apr. 30, 1921. Serial No. 465,846. Term of patent 7 years.



The ornamental design for a dustpan, as shown.

59,132. PORTABLE LAMP-BASE. S. ROBERT SCHWARTZ, New York, N. Y. Filed Oct. 20, 1920. Serial No. 418,340. Term of patent 7 years.



The ornamental design for a portable lamp base, as shown.

59,133. RADIANT ELECTRIC HEATING UNIT. MILTON H. SHOENBERG, San Francisco, Calif., assignor to Majestic Electric Development Co., San Francisco, Calif. Filed Feb. 26, 1920. Serial No. 361,561. Term of patent 14 years.



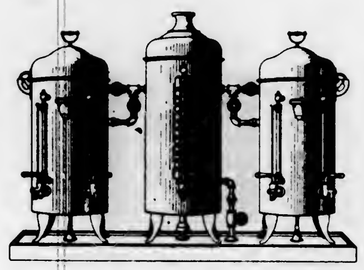
The ornamental design of a radiant electric heating unit substantially as shown.

59,134. CUSHION-TIRE TREAD. CARL SODERLUND, Akron, Ohio. Filed May 7, 1921. Serial No. 467,579. Term of patent 14 years.



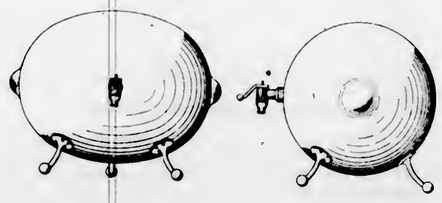
The ornamental design for a cushion-tire tread, as shown.

59,135. COFFEE-URN. THOMAS J. TOPPER, San Francisco, Calif. Filed Apr. 14, 1921. Serial No. 461,423. Term of patent 14 years.



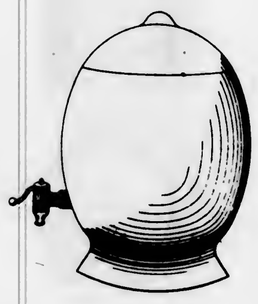
The ornamental design for a coffee urn, as shown.

59,136. BEVERAGE-DISPENSING APPARATUS. JOHN M. TRAVIS, St. Louis, Mo. Filed May 5, 1921. Serial No. 467,209. Term of patent 7 years.



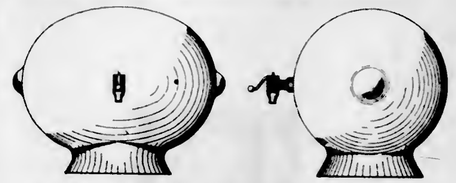
The ornamental design for a beverage dispensing apparatus as shown.

59,137. BEVERAGE-DISPENSING APPARATUS. JOHN M. TRAVIS, St. Louis, Mo. Filed May 5, 1921. Serial No. 467,210. Term of patent 7 years.



The ornamental design for a beverage dispensing apparatus, as shown.

59,138. BEVERAGE-DISPENSING APPARATUS. JOHN M. TRAVIS, St. Louis, Mo. Filed May 5, 1921. Serial No. 467,211. Term of patent 7 years.



The ornamental design for a beverage dispensing apparatus, as shown.

59,139. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,365. Term of patent 3½ years.





The ornamental design for a tire as shown.

59,140. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,366. Term of patent 3½ years.





The ornamental design for a tire as shown.

59,141. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,367. Term of patent 3½ years.



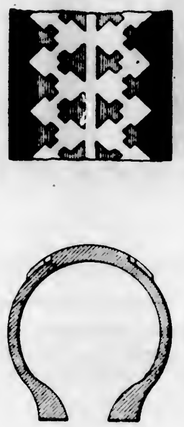
The ornamental design for a tire as shown.

59,142. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,368. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,143. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,369. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,144. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,371. Term of patent 3½ years.



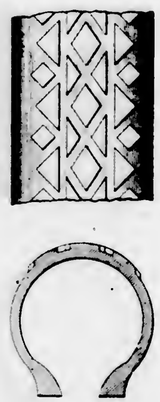
The ornamental design for a tire as shown.

59,145. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,372. Term of patent 3½ years.



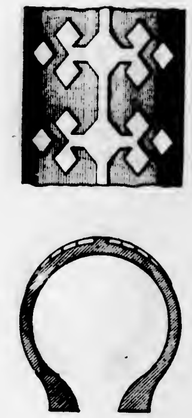
The ornamental design for a tire as shown.

59,146. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,375. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,147. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,376. Term of patent 3½ years.



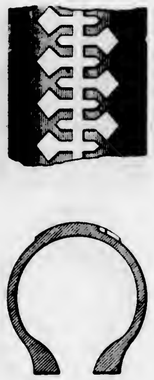
The ornamental design for a tire as shown.

59,148. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,377. Term of patent 3½ years.



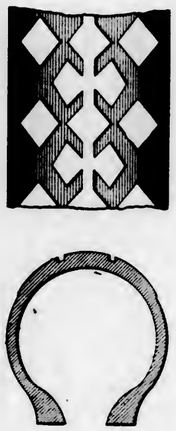
The ornamental design for a tire as shown.

59,149. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,378. Term of patent 3½ years.



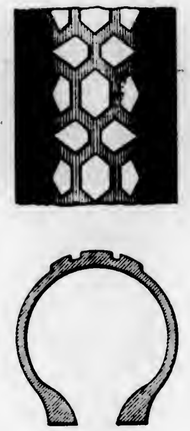
The ornamental design for a tire as shown.

59,150. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,379. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,151. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,380. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,152. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,381. Term of patent 3½ years.



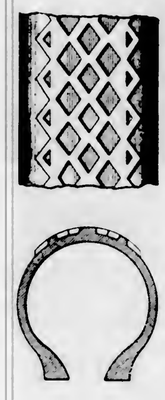
The ornamental design for a tire as shown.

59,153. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,382. Term of patent 3½ years.



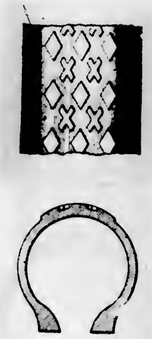
The ornamental design for a tire as shown.

59,154. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,383. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,155. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,384. Term of patent 3½ years.



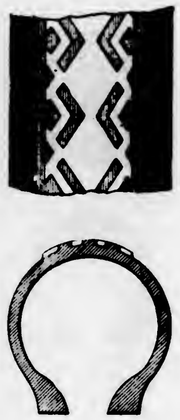
The ornamental design for a tire as shown.

59,156. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,385. Term of patent 3½ years.



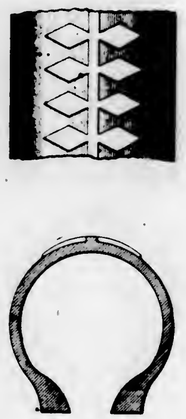
The ornamental design for a tire as shown.

59,157. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,386. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,158. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,387. Term of patent 3½ years.



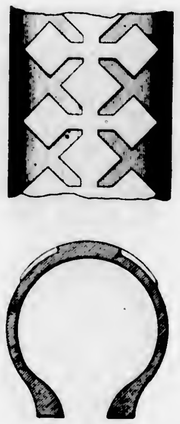
The ornamental design for a tire as shown.

59,159. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,388. Term of patent 3½ years.



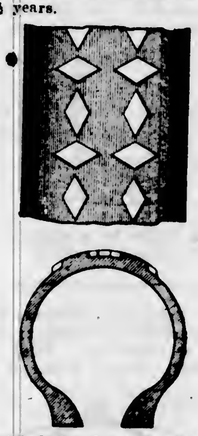
The ornamental design for a tire as shown.

59,160. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,389. Term of patent 14 years.



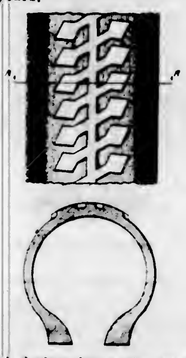
The ornamental design for a tire as shown.

59,161. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,390. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,162. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,391. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,163. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,392. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,164. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,393. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,165. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,395. Term of patent 3½ years.



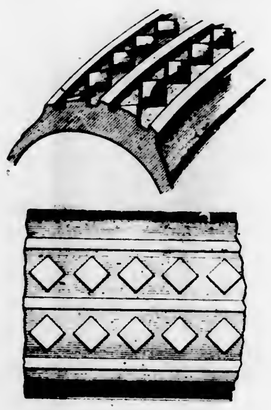
The ornamental design for a tire as shown.

59,166. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,396. Term of patent 3½ years.



The ornamental design for a tire as shown.

59,167. TIRE. ROLAND S. TROGNER, Akron, Ohio, assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Mar. 18, 1921. Serial No. 453,397. Term of patent 3½ years.



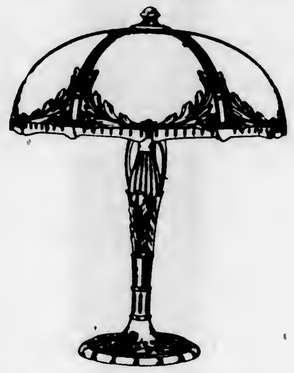
The ornamental design for a tire as shown.

59,168. SUPPORT FOR A LAMP OR SIMILAR ARTICLE. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Company, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 24, 1921. Serial No. 447,616. Term of patent 3½ years.



The ornamental design for a support for a lamp or similar article, substantially as shown.

59,169. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Company, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 24, 1921. Serial No. 447,617. Term of patent 3½ years.



The ornamental design for a lamp substantially as shown.

59,170. LAMP. HERMAN H. WOLTER, Meriden, Conn., assignor to Edward Miller & Company, Meriden, Conn., a Corporation of Connecticut. Filed Feb. 24, 1921. Serial No. 447,618. Term of patent 3½ years.



The ornamental design for a lamp substantially as shown.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 20, 1921.

[PUBLISHED SEPTEMBER 30, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 117,647. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE DE PREE CHEMICAL COMPANY, Holland, Mich. Filed Apr. 21, 1919.

ENCHANTMENT

Particular description of goods.—Complexion-Powder, Complexion-Cream, Talcum Powder, Toilet Water, and Almond Cream.

Claims use since Apr. 1, 1917.

Ser. No. 119,259. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed June 5, 1919.

FAIRY SPONGE

Applicant makes no claim to the word "Sponge" separate and apart from the mark shown on the drawing.

Particular description of goods.—Cakes.

Claims use since May 1, 1916.

Ser. No. 124,786. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DU PONT-YOUNG CORPORATION, Boston, Mass., and New York, N. Y. Filed Nov. 12, 1919.

DYCO

Particular description of goods.—Toilet Cream, Toilet Lotions, Toilet Powders, Toilet Waters, Liquid Shampoo Preparations, Hair-Tonics, Tooth-Paste, Perfumery Preparations, Sachet-Powder, Depilatory and Deodorant Preparations, Disinfectant and Antiseptic Powders and Liquids, Antiseptic Lubricant, Adhesive Plasters, Mustard Plasters, Corn and Bunion Plasters, Court-Plasters, Isinglass Plasters.

Claims use since Apr. 18, 1919.

Ser. No. 125,010. (CLASS 12. CONSTRUCTION MATERIALS.) THE NOLL-WELTY LUMBER COMPANY, Kansas City, Mo. Filed Nov. 17, 1919.

BRONCO BRAND PRODUCTS

No claim being made to the exclusive use of the words "Brand" and "Products" apart from the mark shown in the drawing.

Particular description of goods.—Shingles, Roofing-Paper, Building-Paper, and Wall-Board.

Claims use since Jan. 1, 1916.

Ser. No. 125,568. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. C. CHASSOPOULOS, New York, N. Y. Filed Dec. 4, 1919.

CRASSO BRAND

No claim is made for the word "Brand" apart from the mark shown on the drawing.

Particular description of goods.—Beans, Sugar, Oleo-Oil, Mutton-Oil, Cotton-Seed Oil, Olive-Oil, Rice, Corn-Starch, Raisins, Coffee, and Corn-Syrup. (Glucose.)

Claims use since Aug. 1, 1919.

Ser. No. 125,615. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM J. FERRARA, Charleston, S. C. Filed Dec. 5, 1919.



The words "Kancure Salve External Use Only" and the words "Trade Mark" are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Salves for Skin Eruptions and Sores.

Claims use since Oct. 10, 1919.

Ser. No. 125,902. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MCDONALD BROS. CO., Minneapolis, Minn. Filed Dec. 12, 1919.



No claim is made to the word "Brand" apart from the mark as shown in the drawing.

Particular description of goods.—Lace Curtains, Draperies of Cotton and Wool, Blankets of Cotton and Wool, Couch-Covers of Cotton and Wool, Comforts of Cotton and Wool, Table-Covers, Linen and Cotton Towels, Washcloths, Webbing of Elastic, Ribbons in the Piece, Laces in the Piece, and Embroidery-Pieces.

Claims use since Sept. 1, 1915.

Ser. No. 127,716. (CLASS 15. OILS AND GREASES.) COOPERS CREEK CHEMICAL COMPANY, West Conshohocken, Pa. Filed Jan. 29, 1920.



The letter "C" being shown in red.

Particular description of goods.—Liquid Fuel for Internal-Combustion Engines, Benzol, Toluol, and Naphtha.

Claims use since on or about Feb. 12, 1918, on liquid fuel and since on or about January, 1917, on benzol, toluol, and naphtha.

Ser. No. 127,998. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM E. DODD, New York, N. Y. Filed Feb. 5, 1920.

"JUST ENUFF"

Particular description of goods.—Cut Lengths of Silk and Velvet Ribbons.

Claims use since July 15, 1919.

Ser. No. 128,026. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE SOUTHERN COAL & COKE COMPANY, Knoxville, Tenn. Filed Feb. 5, 1920.

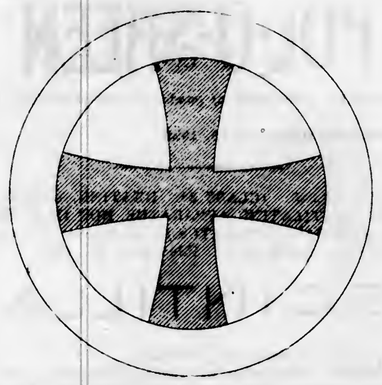


No claim is made to the representation of coal shown in the drawing of the trade-mark apart from the trade-mark as shown.

Particular description of goods.—Coal.

Claims use since about 1908.

Ser. No. 128,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DR. ANANIA FLORES, Marianna, Pa. Filed Feb. 13, 1920.



The cross being green.

Particular description of goods.—Emulsion for Influenza, Palliative for Venereal Diseases; Medicine for Kidneys, Stomach, Liver, Dyspepsia, Indigestion; Tonic, Strengthening-Tonic for the Appetite, a Physic and System-Purifier; Bay-Rum, Perfume, Hair-Tonic, and Hair-Restorer, Cough-Syrup, Liniment Preparation for External Use for Rheumatism, Neuritis, Neuralgia, Soreness, Sprains, Stiff and Swollen Joints.

Claims use since about Jan. 1, 1919.

Ser. No. 129,417. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISIDORE RESSLER, Detroit, Mich. Filed Mar. 8, 1920.

DEODORA

Particular description of goods.—Deodorant and Disinfectant.

Claims use since July, 1919.

Ser. No. 129,928. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) H. L. G. MANUFACTURING COMPANY, Indianapolis, Ind. Filed Mar. 19, 1920.



No claim is made for the exclusive rights to the words "Indianapolis, Ind." the words "Shock Absorber," and the letters "U. S. A." apart from the mark shown in the drawing.

Particular description of goods.—Shock-Absorbers for Motor-Vehicles.

Claims use since Dec. 16, 1919.

Ser. No. 131,333. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) IRVIN-SMITH CO., Chicago, Ill. Filed Apr. 19, 1920.

SENSATION

Particular description of goods.—Lip-Sticks, Nail-Polish, and Incense.

Claims use since June 15, 1919.

Ser. No. 131,681. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MATHILDA WALINDER, Chicago, Ill. Filed Apr. 26, 1920.

BISMOLATUM

Particular description of goods.—Antiseptic Healing-Salve.

Claims use since Nov. 1, 1919.

Ser. No. 133,079. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULES BENGUÉ, Paris, France. Filed May 29, 1920.

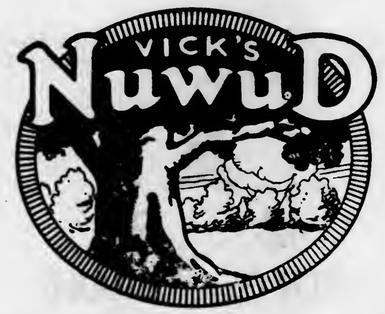
ANGINOL

Consists of the word "Anginol."

Particular description of goods.—Lozenges for Throat Diseases.

Claims use since Feb. 19, 1920.

Ser. No. 133,255. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALBERT F. W. VICK, Philadelphia, Pa. Filed June 3, 1920.



Particular description of goods.—Material for Filling Cavities in Trees, Consisting of a Mixture of Calcined Magnesite and Sawdust, Which is Employed, After Having Been Mixed with Magnesium Chlorid, to Provide a Plastic Mass.

Claims use since Mar. 11, 1920.

Ser. No. 133,667. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MILL AND MINE SUPPLY CO., Seattle, Wash. Filed June 14, 1920.



Particular description of goods.—Blacksmith-Coal.
Claims use since Jan. 1, 1908.

Ser. No. 134,090. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WAYNE F. RHYNE, Rome, Ga. Filed June 23, 1920.

NUXIANA

Particular description of goods.—A General Tonic.
Claims use since Jan. 1, 1917.

Ser. No. 134,974. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NELIA PARKER, Oakland, Calif. Filed July 14, 1920.

Hairgone

Particular description of goods.—A Preparation for the Removal of Superfluous Hair from the Human Face and Body.
Claims use since Dec. 12, 1919.

Ser. No. 135,460. (CLASS 15. OILS AND GREASES.) THE TEXAS COMPANY, Houston, Tex., and New York, N. Y. Filed July 27, 1920.

星
標 商
SING BRAND

The word "Brand" is disclaimed apart from the mark as shown on the drawing. A translation of the Chinese characters shown on the drawing is as follows: "Star Brand."
Particular description of goods.—Burning-Oils.
Claims use since Aug. 14, 1916.

Ser. No. 135,618. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) JOHN F. ROLSHAUSEN, Logansport, Ind. Filed July 30, 1920.

POL-O-SHEEN

Particular description of goods.—Automobile-Body Polish.
Claims use since July 15, 1920.

Ser. No. 136,045. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) SCINTILLA, Canton of Solothurn, Switzerland. Filed Aug. 12, 1920.

SCINTILLA

Consisting of the word "Scintilla."
Particular description of goods.—Petroleum and Oil Lamps, Lanterns, and Hand-Lamps and Parts Thereof; Ventilators, Steam and Hot-Water Radiators and Dampers and Parts Thereof.
Claims use since June 19, 1917.

Ser. No. 136,217. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed Aug. 17, 1920.

EUROPHEN

Particular description of goods.—Antiseptic Medical Substance in Powdered Form.
Claims use since about Feb. 4, 1890.

Ser. No. 136,296. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. P. HOOD & SONS, INC., Boston, Mass. Filed Aug. 20, 1920.



No claim is made to the representation of a cow appearing on the drawing apart from the mark shown or to the word "Milk."
Particular description of goods.—Milk, Cream, Butter, Cheese, Eggs, Buttermilk, Modified Milk, Tea, Coffee, Ice-Cream, Canned Beans, Canned Fruits and Vegetables.
Claims use since 1900.

Ser. No. 136,528. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Mrs. BEULAH PARKER, Chicago, Ill. Filed Aug. 26, 1920.

PARKER'S
BEAUTIFIER



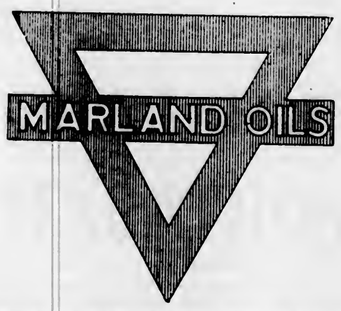
The portrait appearing on the drawing is that of the applicant. No claim is made to the word "Beautifier" apart from the mark as shown.
Particular description of goods.—Hair-Growers.
Claims use since April, 1915.

Ser. No. 136,585. (CLASS 38. PRINTS AND PUBLICATIONS.) DOYLE-KIDD D. G. CO., Little Rock, Ark. Filed Aug. 28, 1920.



Particular description of goods.—Weekly and Annual Publications.
Claims use since about Jan. 21, 1913.

Ser. No. 137,337. (CLASS 15. OILS AND GREASES.) MARLAND REFINING COMPANY, Ponca City, Okla. Filed Sept. 23, 1920.



The words "Marland Oils" are disclaimed apart from the mark shown. The shading represents the color red.

Particular description of goods.—Gasolene, Naphtha, Benzene, Kerosene, Kerosene Distillates, Gasolene Distillates, Fuel-Oil, Gas-Oil, Paraffin-Waxes, Lubricating Distillates, Lubricating By-Products Obtained from the Distillation of Crude Oil, Saponified and Solidified Greases Made from Petroleum for Lubricating, and Blends of the Various Oils and Distillates for Lubricating.
Claims use since Jan. 2, 1919.

Ser. No. 137,564. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOERICKE & RUNYON CO., San Francisco and Oakland, Calif. Filed Sept. 24, 1920.

Eupsa

Particular description of goods.—Medicines and Pharmaceutical Preparations—Namely, Internal Remedies in Tablet and Liquid Form—Namely, Constitutional, Mucous Membrane, Blood, Bronchitis, Nerve Exhaustion, Dyspepsia, Flatulence, Climacteric, Bilious, Headache, Invigorator, Coryza, Glandular, Laxative and Liver, Cough and Hoarseness, Hemorrhoid, Diarrhea, Malaria, Tonsillitis, Colic, Complexion, Urethritis, Rheumatism, Laryngitis, Sore Throat, Fever, Whooping-Cough, Asthma, Skin, Hives, Croup, Worm, Grippe, Influenza, Blood-Pressure, Uterine Catarrh, Heart, Neuritis, Painful Menstruation, Constipation, Seasickness, Goiter and Teething Tablets; Neurasthenia Special, Tonic Laxative, and Poison-Oak Remedy; Aromatic Castor-Oil, Sugar of Milk; Topical Remedies—Namely, Antiseptic Powder, Corn Remedy, Gargle, Scalp-Tonic, Eye-Water, Chilblain-Ointment, Poison-Oak Lotion, Poison-Oak Talcum Powder, Liquid Sulfur Soap, Alkaline Antiseptics, Ethereal Liquid Soap, and Pile-Suppositories; Dentifrice, Mouth-Wash, and Shampoo.
Claims use since 1898.

Ser. No. 137,656. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) FRED S. BENNETT, INC., New York, N. Y. Filed Sept. 27, 1920.

Aquashed

Particular description of goods.—Waterproof Fabrics.
Claims use since Sept. 1, 1920.

Ser. No. 137,729. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FAIRY DYE COMPANY, Chicago, Ill. Filed Sept. 29, 1920.

Fairy

DYES

No claim being made to the word "Dyes" apart from the mark shown.

Particular description of goods.—Cloth-Dyes.

Claims use since June 1, 1920.

Ser. No. 138,530. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) J. L. AIRCRAFT CORPORATION, New York, N. Y. Filed Oct. 20, 1920.

JL6

Particular description of goods.—Aeroplanes.

Claims use since July 2, 1920.

Ser. No. 138,613. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SUSSMAN WORMSER & Co., San Francisco, Calif. Filed Oct. 20, 1920.

Century

Particular description of goods.—Canned Fruits, Canned Vegetables, Canned Oysters, Vinegar, Coffee, Tea, Spice, Evaporated Fruits, Fruit Jams, Fruit Jellies, Table-Syrup.

Claims use since Aug. 18, 1898.

Ser. No. 138,674. (CLASS 20. LINOLEUM AND OILED CLOTH.) W. A. W. DAVIS, CORP., Newark, N. J. Filed Oct. 22, 1920.

DAVISOLEUM

Particular description of goods.—Felt-Base Floor-Coverings, Linoleum, Oil-Cloth Fabrics for Floors, and Oil-Cloths.

Claims use since July 1, 1920.

Ser. No. 138,675. (CLASS 20. LINOLEUM AND OILED CLOTH.) W. A. W. DAVIS, CORP., Newark, N. J. Filed Oct. 22, 1920.

LINOLIN

Particular description of goods.—Felt-Base Floor Coverings, Linoleum, Oil-Cloth Fabrics for Floors, and Oil-Cloths.

Claims use since July 1, 1920.

Ser. No. 139,253. (CLASS 32. FURNITURE AND UPHOLSTERY.) CHAMBERLAYNE, INC., New York, N. Y. Filed Nov. 6, 1920.

CINC.

Particular description of goods.—Household Furniture—Namely, Tables, Chairs, Beds, Bureaus, Stands, Shades, Wardrobes, Cabinets, Credences, and Settees.

Claims use since Jan. 1, 1915.

Ser. No. 139,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VICTOR HALPER, New York, N. Y. Filed Nov. 6, 1920.

KATALYSIN

Particular description of goods.—A Medicinal Preparation Indicated as a Specific for Insufficiency of the Hormones of the Reproductive Glands and the Glands of Internal Secretion and other Conditions of Physical and Nervous Debility.

Claims use since about Mar. 10, 1920.

Ser. No. 139,488. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) THE WINTON COMPANY, Cleveland, Ohio. Filed Nov. 10, 1920.

SIX WINTON SIX

The word "Six" is disclaimed except in association with the word "Winton."

Particular description of goods.—Automobiles, Motor-Trucks.

Claims use since 1907.

Ser. No. 140,165. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CHOCOLATS FINS ZURCHER S. A., Clarens-Montreux, Switzerland. Filed Nov. 26, 1920.



Particular description of goods.—Chocolate and Cocoa for Beverage Purposes; Raw and Prepared Cocoa and Cocoa Combined with Oats, Banana and other Flour, or with Medicaments; Chocolate in Blocks, in Wafers, in Sticks, in Balls and in Powder Form; Chocolate Combined with Nuts, Fruits, Liquors, Syrups, or Medicaments; Bonbons; Fresh, Dried, and Conserved Fruits; Candied Flowers; Condensed, Fresh, Conserved, and Powdered Milk and Cream; Lactated Flour, Pastils Used as a Confection, and Pastry.

Claims use since November, 1919.

Ser. No. 140,288. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Nov. 27, 1920.

MARATHON

Particular description of goods.—Sheets and Pillow-Cases.

Claims use since 1906.

Ser. No. 140,359. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LEWIS LORIMER WILLIAMS, East Boston, Mass. Filed Nov. 27, 1920.

PEMROL

HAIR TONIC

No claim being made to the words "A Hair Tonic."

Particular description of goods.—Hair-Tonic.

Claims use since Nov. 1, 1920.

Ser. No. 141,366. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MARSHALL FIELD & COMPANY, Chicago, Ill. Filed Dec. 21, 1920.

SILCOT

Particular description of goods.—Apparel Fabrics—Namely, Goods of Silk and Cotton Mixture Sold in Bolts or What are Commonly Referred to as Piece Goods.

Claims use since Apr. 20, 1920.

Ser. No. 141,784. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BOLESLAW R. KOZLOWSKI, Chicago, Ill. Filed Jan. 3, 1921.

KORONA

Particular description of goods.—Ferrated Bitter Wine, to be Used as a General Tonic.

Claims use since December, 1912.

Ser. No. 141,844. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) HENRY W. PEABODY & Co., New York, N. Y. Filed Jan. 4, 1921.

C PURE

Exclusive use to the word "Pure" being disclaimed apart from the mark shown.

Particular description of goods.—Garnet Lac—a Grade of Gum-Shellac.

Claims use since November, 1911.

Ser. No. 141,955. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MILLBROOK WOOLEN MILLS, New York, N. Y. Filed Jan. 7, 1921.

Elysian

Particular description of goods.—Woolen and Cotton Piece Goods.

Claims use since Jan. 15, 1914.

Ser. No. 142,007. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) CARPENTER-MORTON COMPANY, Boston, Mass. Filed Jan. 10, 1921.

COLORITE



Particular description of goods.—Liquid Paints, Varnishes, Varnish Stains for Coloring and Finishing Straw Hats and other Straw Goods of All Kinds, Leather, Ratan, Wood, and other Fibrous Materials, Including Textiles, and Metals, Glass, and other Materials.

Claims use since July 26, 1898.

Ser. No. 142,215. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LANGLEY INGRAHAM, Philadelphia, Pa. Filed Jan. 13, 1921.

TIRETEX--RUBBERTEX

Particular description of goods.—A Liquid Preservative Coating for Automobile-Tires.

Claims use since Jan. 3, 1921.

Ser. No. 142,331. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CITY CREAMERY CO. INC., Birmingham, Ala. Filed Jan. 17, 1921.

XTRIXPLEX

Particular description of goods.—Sweet Milk, Buttermilk, Cream, and Butter.

Claims use since Nov. 6, 1920.

Ser. No. 142,606. (CLASS 2. RECEPTACLES.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921.

UNCANOONUC

Particular description of goods.—Bags Made of Cloth.

Claims use since Feb. 19, 1918.

Ser. No. 142,607. (CLASS 2. RECEPTACLES.) AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H. Filed Jan. 22, 1921.

NAMASKE

Particular description of goods.—Bags Made of Cloth.

Claims use since Feb. 19, 1918.

Ser. No. 142,882. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GIBSON-SNOW CO., INC., Albany, N. Y. Filed Jan. 28, 1921.

MUSTER-ICE

Particular description of goods.—A Salve or Ointment for Use in the Treatment of Influenza, Sore Throat, Rheumatism, Sprains, Cold in Head and Chest, Neuralgia, Asthma, Hay-Fever, Stiff Neck, Headache, and Tonsillitis.

Claims use since Oct. 1, 1919.

Ser. No. 143,440. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LAWRENCE W. JENKINS, Greensboro, N. C. Filed Feb. 11, 1921.

LIVERITE

Particular description of goods.—A Laxative Tablet.

Claims use since November, 1916.

Ser. No. 143,570. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MADS NELSON, Canton, Ohio. Filed Feb. 14, 1921.



Particular description of goods.—Medicinal Preparation for the Treatment of Rheumatism.

Claims use since about Jan. 21, 1921.

Ser. No. 143,615. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE NEEDHAM PRODUCTS COMPANY, Cleveland, Ohio. Filed Feb. 15, 1921.

Rep

Particular description of goods.—A Laxative.

Claims use since April, 1918.

Ser. No. 143,848. (CLASS 2. RECEPTACLES.) THE AMERICAN PAPER GOODS CO., Kensington, Conn. Filed Feb. 21, 1921.

PURITAN

Particular description of goods.—Round and Flat Paper Drinking-Cups.

Claims use since 1913.

Ser. No. 143,907. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE ASHLAND TIRE AND RUBBER COMPANY, Ashland, Ohio. Filed Feb. 23, 1921.



The lining on drawing being merely shade-lines and not denoting color. No claim is made to the words "Ashland Tires" or the words "Sturdy as the Ash—Best in the Land" apart from the mark shown in the drawing. No claim is made to the representation of the tire apart from the mark shown.

Particular description of goods.—Vehicle-Tires of Rubber and Rubber and Fabric, Inner Tubes, Tire Casings and Shoes, All Rubber and Fabric and Repair Parts for Use in Connection with the Foregoing—Namely, Lace-On Boots and Hook-On Boots of Rubber and Fabric, Relliners, Blow-Out Patches, Cementless Patches, Cord Patches, and Valve-Pads.

Claims use since about Feb. 20, 1920.

Ser. No. 143,911. (CLASS 2. RECEPTACLES.) THE CENTRAL FURNITURE PACKING COMPANY, Chicago, Ill. Filed Feb. 23, 1291.



Particular description of goods.—Crates, Wood Boxes, and Cartons.

Claims use since Nov. 15, 1920.

Ser. No. 144,053. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FANNIE B. STONER, Providence, Ky. Filed Feb. 25, 1921.

MADAM STONER'S BEAUTY

Particular description of goods.—Hair-Grower.
Claims use since Dec. 1, 1920.

Ser. No. 144,104. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD CHEMICAL WORKS, Reading and Womelsdorf, Pa. Filed Feb. 26, 1921.

San-O-Spray

Particular description of goods.—Insecticides, Deodorants, Germicides, and Disinfectants.
Claims use since about Feb. 1, 1921.

Ser. No. 144,165. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md. Filed Feb. 28, 1921. Under ten-year proviso.



Particular description of goods.—Medicinal Preparations in Liquid Form—Namely, Cough-Syrup, Diarrhea-Curative, Baby-Syrup, Liniment for External Application for the Relief of Various Bodily Ailments, Such as Rheumatism, Neuralgia, Lumbago, Backache, &c., and for Medicinal Preparations in Dry Form—Namely, Pills Having Laxative and Tonic Properties, Headache-Powders, Antidotes and Substitutes for Tobacco—Namely, a Dry Stomach-Bitters, a Laxative Preparation Known as "Meyer's Blood Tea," Condition-Powders for Horses and Cattle, and Condition-Powders for Poultry.
Claims use since 1877.

Ser. No. 144,222. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HARRY H. CULLINAN, Flats, Nebr. Filed Mar. 2, 1921.

Sunnyside

Particular description of goods.—Stock Gestation Compound.
Claims use since Jan. 11, 1921.

Ser. No. 144,240. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md. Filed Mar. 2, 1921. Under ten-year proviso.



Particular description of goods.—Medicinal Preparations in Liquid Form—Namely, Cough-Syrup, Diarrhea-Curative, Baby-Syrup, Liniment for External Application for the Relief of Various Bodily Ailments, Such as Rheumatism, Neuralgia, Lumbago, Backache, &c., and for Medicinal Preparations in Dry Form—Namely, Pills Having Laxative and Tonic Properties, Headache-Powders, Antidotes and Substitutes for Tobacco—Namely, a Dry Stomach-Bitters, a Laxative Preparation Known as "Meyer's Blood Tea," Condition-Powders for Horses and Cattle, and Condition-Powders for Poultry.
Claims use since October, 1877.

Ser. No. 144,345. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md. Filed Mar. 5, 1921. Under ten-year proviso.

A. C. Meyer & Co

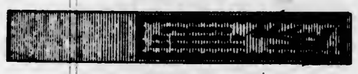
Particular description of goods.—Medicinal Preparations in Liquid Form—Namely, Cough-Syrup, Diarrhea-Curative, Baby-Syrup, Liniment for External Application for the Relief of Various Bodily Ailments, Such as Rheumatism, Neuralgia, Lumbago, Backache, &c., and Medicinal Preparations in Dry Form—Namely, Cough-Drops, Pills Having Laxative and Tonic Properties, Headache-Powders, Antidotes and Substitutes for Tobacco, Including Cubeb Cigarettes, a Laxative Preparation Known as "Meyer's Blood Tea," Condition-Powders for Horses and Cattle, and Condition-Powders for Poultry.
Claims use since September, 1882.

Ser. No. 144,400. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md. Filed Mar. 7, 1921. Under ten-year proviso.

John H. Bull.

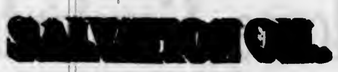
Particular description of goods.—Medicinal Preparations in Liquid Form—Namely, Cough-Syrup, Diarrhea-Curative, and Baby-Syrup; and Medicinal Preparations in Dry Form—Namely, Pills Having Laxative and Tonic Properties.
Claims use since 1858.

Ser. No. 144,482. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md. Filed Mar. 8, 1921. Under ten-year proviso.



The ground color of the label being bright red.
Particular description of goods.—Medicinal Preparations in Liquid Form—Namely, Cough-Syrup, Diarrhea-Curative, Baby-Syrup, Liniment for External Application for the Relief of Various Bodily Ailments, Such as Rheumatism, Neuralgia, Lumbago, Backache, &c., and Medicinal Preparations in Dry Form—Namely, Antidotes and Substitutes for Tobacco.
Claims use since May, 1883.

Ser. No. 144,548. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TRUST ESTATE OF ADOLPH C. MEYER, DECEASED, Baltimore, Md. Filed Mar. 9, 1921. Under ten-year proviso.



Particular description of goods.—Liniment for External Application for the Relief of Various Bodily Ailments, Such as Rheumatism, Neuralgia, Lumbago, Backache, &c.
Claims use since April, 1883.

Ser. No. 144,583. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOHN D. MASON, Chicago, Ill. Filed Mar. 10, 1921.

SALFENOL

Particular description of goods.—An Antiseptic, Germicide, and Medicinal Treatment for Pyorrhea.
Claims use since March, 1916.

Ser. No. 144,715. (CLASS 12. CONSTRUCTION MATERIALS.) THE FIREPROOF PRODUCTS CO., INC., New York, N. Y. Filed Mar. 14, 1921.



The words "Building Products" are disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Roof-Coating Consisting of Oil and Asbestos Fiber and Mastic Roofing-Cement.
Claims use since October, 1920.

Ser. No. 144,845. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) BUTLER & COSGRAVE, San Angelo, Tex. Filed Mar. 17, 1921.

B&C

Particular description of goods.—Laxative Aspirin Tablets for Headaches, Colds, La Grippe, Rheumatism, and Similar Affections.
Claims use since Feb. 21, 1920.

Ser. No. 144,861. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WM. W. HOAGLAND, D. D. S., San Francisco, Calif. Filed Mar. 17, 1921.

Pyro-Void

Particular description of goods.—Medicinal Preparation to be Used as a Fluid, Semifluid, or Powder Dentifrice for Treatment of Pyorrhea, Tender, Spongy, and Receding Gums.
Claims use since Oct. 3, 1920.

Ser. No. 144,982. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EVELYN L. PETERSEN, Oakland, Calif. Filed Mar. 19, 1921.



The picture shown in the accompanying drawing is fanciful.

Particular description of goods.—A Facial Cream for the Treatment of Large Pores, Pimples, Blackheads, Oily Skins, and for Cleaning, Massaging, Softening, and Beautifying the Skin.

Claims use since Feb. 1, 1921.

Ser. No. 144,991. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) TEMPLETON COAL COMPANY, Sullivan and Glendora Mine, Ind. Filed Mar. 19, 1921.

GLENDORA

Particular description of goods.—Coal.

Claims use since Sept. 1, 1920.

Ser. No. 145,007. (CLASS 32. FURNITURE AND UPHOLSTERY.) CAPITOL BEDDING COMPANY, Washington, D. C. Filed Mar. 21, 1921.

CAPITOL-IZE YOUR SLEEP



Applicant disclaims exclusive right to the use of the words "Brand, Washington, D. C.," apart from the mark shown.

Particular description of goods.—Mattresses.

Claims use since Mar. 15, 1918.

Ser. No. 145,304. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN POULTRY FARMS, Churubusco, Ind. Filed Mar. 28, 1921.



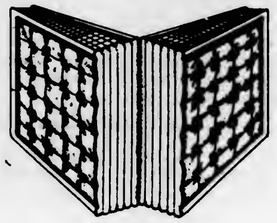
No claim being made to the words "Poultry," "Farms," and "Bred-to-Lay" apart from the mark shown.

Particular description of goods.—Live Poultry, Eggs, and Baby-Chicks.

Claims use since September, 1919.

Ser. No. 145,336. (CLASS 32. FURNITURE AND UPHOLSTERY.) THOMAS A. HOLTZCLAW, Montgomery, Ala. Filed Mar. 28, 1921.

Home Comfort

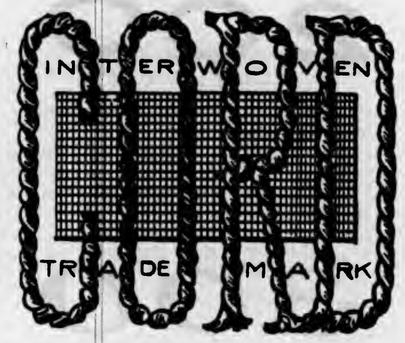


No claim being made to the representation of the pad apart from the mark shown.

Particular description of goods.—Mattresses, Pillows, Pads Made Similar to Mattresses for Use on Top of Mattresses, and Cushions for Chairs.

Claims use since Aug. 1, 1912.

Ser. No. 145,614. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE CORD INTERWOVEN PATCH CO., Detroit, Mich. Filed Apr. 2, 1921.



No claim being made to the words "Trade Mark" and no exclusive right being claimed to the use of the words "Interwoven Cord" and the representation of woven cord except in the form shown in the drawing.

Particular description of goods.—Rubber Patches, Having Cord Interwoven Therein for Tire-Casings and Tire Inner Tubes.

Claims use since Dec. 1, 1920.

Ser. No. 145,662. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRANCIS B. WEIDLER, Los Angeles, Calif. Filed Apr. 2, 1921.

HI-MA SINASTLIN

Particular description of goods.—Hair-Tonic.

Claims use since Mar. 18, 1921.

Ser. No. 145,693. (CLASS 2. RECEPTACLES.) CHARLES ALBERT KUEHN, St. Louis, Mo. Filed Apr. 4, 1921.

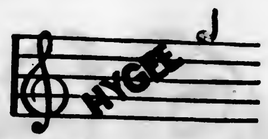


The words "Use," "Quality," and "Supplies" disclaimed apart from the mark shown.

Particular description of goods.—Baskets, Particularly Growers' Baskets and Baskets for Holding Cut Flowers; Galvanized-Tin Cemetery-Vases, Corrugated-Paper Shipping-Boxes for Flowers, Boxes for Cut Flowers, Corsage-Boxes—Namely, for Holding Corsage-Bouquets, and Tubs for Growing Flowers.

Claims use since Jan. 1, 1921.

Ser. No. 145,752. (CLASS 2. RECEPTACLES.) PATON, CALVERT & CO. LIMITED, Liverpool, England. Filed Apr. 5, 1921.



Particular description of goods.—Boxes and the Like Containers Made of Cardboard or Paper or of Cardboard and Metal, the Cardboard Predominating.

Claims use since Oct. 28, 1920.

Ser. No. 145,797. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EDWARD D. ROBINSON, Baltimore, Md. Filed Apr. 6, 1921.

FEDECo

Particular description of goods.—Cocoanut-Oil Shampoo, Brilliantine, Bandoline, Lip-Pomade, Hair-Pomade, Corn Cure, Snake-Oil Liniment, Horse-Liniment, Disinfectant, Anti-Nit Lotion, Worm-Lozenges, Sulfur and Cream-Tartar Lozenges, Aspirin Tablets, Laxative Bromo Quinin, Croup-Ointment, Eczema-Ointment, Witch-Hazel Salve, Witch-Hazel and Carbol Salve, Drawing-Salve, Antiseptic Salve, Diachylon Compound, Unguentalatum; Liniment for Rheumatism, Neuralgia, Sprains, and Bruises; White-Pine Expectorant, White-Pine Expectorant with Tar, White-Pine Expectorant with Menthol, Cough-Anodyne, Iron Bitter Tonic, Antiseptic Mouth-Wash, Sore-Throat Remedy, Extract-Cod-Liver-Oil Compound, Tincture of Myrrh, Tinctura Lavandulæ, Cold-Cream, Vanishing Cream, Bay-Rum, Syrup Hypophosphites, Syrup of Wild Cherry, White-Pine-Compound Syrup, Purified Mineral Oil for Gaseous Indigestion; Beef, Iron, and Wine; Elixir Iron Quinin and Strychnin, Face-Powder, Talcum Powder, Rouge, Lip-Stick, Eyebrow-Pencil, Perfumes, Toilet Waters, and Hair-Dye.

Claims use since Sept. 20, 1920.

Ser. No. 145,930. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FRED W. AMES, New Orleans, La. Filed Apr. 9, 1921.

AMES IPECAC



The pictorial representation comprising part of the mark is that of applicant. No claim is made to the use of the word "Ipecac" apart from the mark as shown in the drawing.

Particular description of goods —Tooth-Wash.

Claims use since October, 1916.

Ser. No. 145,998. (CLASS 2. RECEPTACLES.) DRY ICELESS EXPRESS CONTAINER CO. INC., New York, N. Y. Filed Apr. 11, 1921.



Particular description of goods.—Shipping Containers.
Claims use since on or about Apr. 1, 1921.

Ser. No. 146,184. (CLASS 2. RECEPTACLES.) JAMES H. ROOK CO., Chicago, Ill. Filed Apr. 14, 1921.

Bon-Tay

Particular description of goods.—Gift-Boxes.
Claims use since October, 1920.

Ser. No. 146,270. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MICHAEL RUTKAY, Philadelphia, Pa. Filed Apr. 16, 1921.

HERCULES

Particular description of goods.—Medicine for Asthma.
Claims use since May 1, 1920.

Ser. No. 146,287. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. AREND DRUG CO., Chicago, Ill. Filed Apr. 18, 1921.

LAX-WELL

Particular description of goods.—Laxative Tablets.
Claims use since July, 1900.

Ser. No. 146,355. (CLASS 2. RECEPTACLES.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

200

Particular description of goods.—Vanity-Boxes.
Claims use since June 1, 1916.

Ser. No. 146,357. (CLASS 2. RECEPTACLES.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

300

Particular description of goods.—Vanity-Boxes.
Claims use since June 1, 1916.

Ser. No. 146,359. (CLASS 2. RECEPTACLES.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

400

Particular description of goods.—Vanity-Boxes.
Claims use since June 1, 1916.

Ser. No. 146,361. (CLASS 2. RECEPTACLES.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr 19, 1921.

500

Particular description of goods.—Vanity-Boxes.
Claims use since June 1, 1916.

Ser. No. 146,363. CLASS 2. RECEPTACLES.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 19, 1921.

600

The drawing is lined to indicate shading only.
Particular description of goods.—Vanity-Boxes.
Claims use since June 1, 1916.

Ser. No. 146,461. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NAVAJO LABORATORIES, INC., Casper, Wyo. Filed Apr. 20, 1921.

NAVAJO

Particular description of goods.—Radiator Compound.
Claims use since Nov. 15, 1920.

Ser. No. 146,484. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) GILLETTE RUBBER CO., Eau Claire, Wis. Filed Apr. 21, 1921.

COMMONWEALTH

Particular description of goods.—Rubber Tire Casings.
Claims use since Oct. 13, 1917.

Ser. No. 146,493. (CLASS 15. OILS AND GREASES.) FREDERICK A. MARSH, New York, N. Y. Filed Apr 21 1921.

CASTORINE

Particular description of goods.—Lubricating-Oils for Motors.
Claims use since Apr. 9, 1921.

Ser. No. 146,513. (CLASS 2. RECEPTACLES.) THE ASHTABULA CORRUGATED BOX CO., Ashtabula, Ohio. Filed Apr. 22, 1921.



Particular description of goods.—Fiber and Paper Shipping-Containers.
Claims use since 1914.

Ser. No. 146,620. (CLASS 2. RECEPTACLES.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 23, 1921.



Particular description of goods.—Vanity-Boxes.
Claims use since Nov. 15, 1919.

Ser. No. 146,622. (CLASS 2. RECEPTACLES.) HARRIET HUBBARD AYER, New York, N. Y. Filed Apr. 23, 1921.

Harriet Hubbard Ayer

Particular description of goods.—Vanity-Boxes.
Claims use since Nov. 15, 1919.

Ser. No. 146,659. (CLASS 12. CONSTRUCTION MATERIALS.) PETOSKEY PORTLAND CEMENT CO., Dover, Del. Filed Apr 23, 1921.



No claim is made to the words "Portland, Petoskey Cement" and "Petoskey, Mich." apart from the mark shown by the drawing.
Particular description of goods.—Portland Cement.
Claims use since Apr. 5, 1921.

Ser. No. 146,758. (CLASS 12. CONSTRUCTION MATERIALS.) THE EVANS BUILDERS COMPANY, Uhrichsville, Ohio; Washington, D. C., and Cincinnati, Ohio. Filed Apr. 26, 1921.

TEBCO
THE
EVANS
BUILDERS
COMPANY

Particular description of goods.—Various Classes of Building Materials—to wit, Hollow Building-Tile, Terra-Cotta Sewer-Pipe, Fire-Brick, Common Building-Brick, Composition Wall-Board, Building-Lime, Terra-Cotta Flue-Liners, Farm Drain-Tile, Fire-Clay, Mortar-Colors, Glazed Building-Block.
Claims use since January, 1918.

Ser. No. 147,068. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WALLACE MILLING COMPANY, Dale, Ind. Filed Apr. 30, 1921.

SHAMROCK

Particular description of goods.—Wheat-Flour.
Claims use since 1889.

Ser. No. 147,146. (CLASS 2. RECEPTACLES.) WICKWIRE SPENCER STEEL CORPORATION, Worcester, Mass. Filed May 2, 1921.

NATWIRE

Particular description of goods.—Bag and Twine Holders, Milk-Jar Carriers, Pie-Racks, and Waste-Paper Baskets.
Claims use since 1908.

Ser. No. 147,161. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) MAGNUS HEMBERG, INC., Richmond, Va. Filed May 3, 1921.

MH

Particular description of goods.—Sole and Harness Leather.
Claims use since Mar. 1, 1921.

Ser. No. 147,228. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ALFRED B. BAILL, Stratford, Conn. Filed May 5, 1921.

KARBO

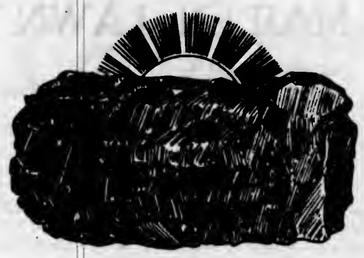
Particular description of goods.—Tooth-Paste.
Claims use since Mar. 17, 1921.

Ser. No. 147,259. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM M. PAYNE, Ashdown, Ark. Filed May 5, 1921

VISION
Vegetable
V.V.

No claim is made to the word "Vegetable" apart from the showing made in the drawing.
Particular description of goods.—General Tonic.
Claims use since Apr. 19, 1921.

Ser. No. 147,325. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) T. O. BUSBEE, Chattanooga, Tenn. Filed May 6, 1921.



No claim is made to the representation of the goods apart from the mark shown on the drawing.
Particular description of goods.—Coal.
Claims use since July 1, 1918.

Ser. No. 147,326. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) T. O. BUSBEE, Chattanooga, Tenn. Filed May 6, 1921.

Morning Glow

Particular description of goods.—Coal.
Claims use since July 1, 1918.

Ser. No. 147,366. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN MORRELL & COMPANY, Ottumwa, Iowa. Filed May 7, 1921.

WAPELLO

Particular description of goods.—Bacon, Fresh Pork, and Fresh Sausage.
Claims use since 1897.

Ser. No. 147,369. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JOSEPH W. SEWELL, Hot Springs, Ark. Filed May 7, 1921.

AJAX

Particular description of goods.—Preparation Used in the Treatment of Rheumatism.
Claims use since Mar. 20, 1921.

Ser. No. 147,421. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Dr. FRANK GARAI, New York, N. Y. Filed May 9, 1921.

ARGOLAN

Particular description of goods.—Oily Emulsion of Argenti Nitras.
Claims use since Apr. 15, 1921.

Ser. No. 147,444. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE MILLERS MILLING COMPANY, Enid, Okla. Filed May 9, 1921.

GOLDENA

Particular description of goods.—Wheat-Flour.
Claims use since Apr. 15, 1921.

Ser. No. 147,483. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAYCIDE CHEMICAL CORPORATION, Birmingham, Ala. Filed May 9, 1921.

VALAY
TABLETS

No claim is made to the word "Tablets" apart from the mark as shown on the drawing.
Particular description of goods.—A Medicinal Preparation for Poultry in Tablet Form to Stimulate Egg-Laying.
Claims use since Feb. 28, 1921.

Ser. No. 147,486. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) VAYCIDE CHEMICAL CORPORATION, Birmingham, Ala. Filed May 9, 1921.



No claim is made to the words "Chicken Preparations" apart from the mark as shown on the drawing.
Particular description of goods.—Medicinal Preparations for Treatment of Diseases of Poultry, Including White Diarrhea, Cholera, Roup, Canker, Colds, Limber-neck, Dysentery, Going Light, Bronchitis, and Rheumatism and to Stimulate Egg-Laying.
Claims use since Feb. 28, 1921.

Ser. No. 147,519. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAWRENCE TEXTILE CO., New York, N. Y. Filed May 10, 1921.



The picture constituting the mark is fanciful.
Particular description of goods.—Lawns in the Piece.
Claims use since 1919.

Ser. No. 147,520. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAWRENCE TEXTILE CO., New York, N. Y. Filed May 10, 1921.

No. 1000

Particular description of goods.—Lawns in the Piece.
Claims use since April, 1919.

Ser. No. 147,521. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LAWRENCE TEXTILE CO., New York, N. Y. Filed May 10, 1921.

"MAIDEN LAWN"

The word "Lawn" apart from the mark shown is hereby disclaimed.
Particular description of goods.—Lawns in the Piece.
Claims use since 1919.

Ser. No. 147,554. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE "DYNAMO" TULLE IMPORTING COMPANY, New York, N. Y. Filed May 11, 1921.

Dynastic

Particular description of goods.—Tulles, Muslins, Crepes and Silks in the Piece, Veils, Veiling and Nettings in the Piece.
Claims use since May 2, 1921.

Ser. No. 147,638. (CLASS 6. CHEMICALS, MEDICINES AND PHARMACEUTICAL PREPARATIONS.) SOLOMON MAGLAND, Chicago, Ill., assignor to Victory Pharmacal Co., Chicago, Ill., a Co-Partnership composed of Aaron W. Rubin, Isidore E. Coven and said Solomon Magland. Filed May 12, 1921.

BIRCHOLA

Particular description of goods.—An Ointment for the Treatment of Sunburn, Tan, Freckles, Pimples, and for Beautifying and Softening the Skin.
Claims use since 1911.

Ser. No. 147,659. (CLASS 12. CONSTRUCTION MATERIALS.) BIRMINGHAM SLAG CO., Birmingham, Ala. Filed May 13, 1921.



No claim is made to the representation of the goods apart from the mark as shown on the drawing.
Particular description of goods.—Brick and Cementitious Tile.
Claims use since Mar. 8, 1921.

Ser. No. 147,710. (CLASS 2. RECEPTACLES.) CARRY-ETTE BAG COMPANY, St. Paul, Minn. Filed May 14, 1921.

Carry-ette

Particular description of goods.—Shopping-Bags and Paper Bags.
Claims use since Apr. 9, 1921.

Ser. No. 147,723. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) WM. E. HOOPER & SONS CO., Baltimore, Md. Filed May 14, 1921.

HOOPERWOOD

Particular description of goods.—Woven Belting, Hose, Fire-Hose, Filter-Tubing, Valve-Packing, Braided Packing, Woven Packing and Brake-Banding, All Made of Cotton; Asbestos Brake-Banding and Cotton Stitched Belting for Power Transmission, Elevating, and Conveying.
Claims use since Apr. 10, 1905.

Ser. No. 147,729. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) LIGHTNING SALES CORPORATION, New York, N. Y. Filed May 14, 1921.



The representation of the tire and demountable rim is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Demountable Wheel-Rims, Brake-Shoes, and Radiator-Shutters.
Claims use since on or about May 1, 1919.

Ser. No. 147,928. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PETER P. LISIECKI, Detroit, Mich. Filed May 19, 1921.



Particular description of goods.—Bree
Claims use since May 8, 1921.

Ser. No. 147,973. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERE MICZULENE, Bridgeport, Conn. Filed May 20, 1921.



The picture shown is a facsimile of applicant's portrait. No claim is made to the word "Lithuanian" apart from the mark shown in the drawing.
Particular description of goods.—A General Medicinal Tonic.
Claims use since Mar. 17, 1921.

Ser. No. 147,974. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MERE MICZULENE, Bridgeport, Conn. Filed May 20, 1921.



The picture shown is a facsimile of applicant's portrait. No claim is made to the word "Lithuanian" apart from the mark shown in the drawing.

Particular description of goods.—A General Medicinal Tonic.

Claims use since Mar. 17, 1921.

Ser. No. 148,029. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) LORAINE ZINC COMPANY, Chicago, Ill. Filed May 21, 1921.



The exclusive use of the words "Loraine Brand Zinc Oxide" is hereby disclaimed except in association with the mark as shown.

Particular description of goods.—Zinc Oxid.

Claims use since about Sept. 15, 1920.

Ser. No. 148,066. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREEN AND GREEN COMPANY, Dayton, Ohio. Filed May 23, 1921.



Consists of the word "Chees-It."

Particular description of goods.—Cheese-Crackers.

Claims use since Mar. 31, 1921.

Ser. No. 148,075. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) INTERNATIONAL STANDARD EXPORTING CORPORATION, New York, N. Y. Filed May 23, 1921.



Particular description of goods.—Cotton Piece Goods, Silks, Suitings, Ducks, Corduroys, Muslins, Crapes, Denims, Flannels, Gabardines, Khaki Fabrics, Jersey Cloths, Moleskins, Nettings, Plushes, Serges, Velvets, and Velveteens in the Piece.

Claims use since July 20, 1920.

Ser. No. 148,107. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN FINANCE & COMMERCE COMPANY, San Francisco, Calif. Filed May 24, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since Jan. 31, 1921.

Ser. No. 148,110. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) AMERICAN FINANCE & COMMERCE COMPANY, San Francisco, Calif. Filed May 24, 1921.



Particular description of goods.—Wheat-Flour.

Claims use since Aug. 30, 1912.

Ser. No. 148,114. (CLASS 2. RECEPTACLES.) GEBRÜDER BÜHLER, Uzwill, Switzerland. Filed May 24, 1921.



Particular description of goods.—Silos.

Claims use since Oct. 21, 1919.

Ser. No. 148,171. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) SECURITY MILLS & FEED COMPANY, Knoxville, Tenn. Filed May 24, 1921.



Particular description of goods.—Poultry Feed.

Claims use since July, 1917.

Ser. No. 148,181. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) THE THOMSON-DIGGS COMPANY, Sacramento, Calif. Filed May 24, 1921.



Particular description of goods.—Wood Heating-Stoves, Coal Heating-Stoves, Oil Heating-Stoves, Gasolene Heating-Stoves, Wood Cook-Stoves, Coal Cook-Stoves, Oil Cook-Stoves, Gasolene Cook-Stoves, Oil Lamp-Stoves, Gas Hot-Plates, and Stovepipe.

Claims use since Jan. 1, 1918.

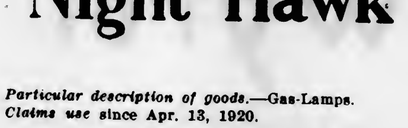
Ser. No. 148,238. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PIONEER CREAMERY CO., Galesburg, Ill. Filed May 25, 1921.



Particular description of goods.—Butter.

Claims use since 1902.

Ser. No. 148,256. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HERMAN C. ABRAMS, Jackson, Miss. Filed May 26, 1921.



Particular description of goods.—Gas-Lamps.

Claims use since Apr. 13, 1920.

Ser. No. 148,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) EUTHOLA MFG. CO., St. Louis, Mo. Filed May 28, 1921.



Particular description of goods.—Face-Powders, Face-Creams, Cold-Creams, Hair-Grower, and Rouges.

Claims use since Jan. 1, 1921.

Ser. No. 148,447. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ARIE A. MEETH, Portland, Mich. Filed May 31, 1921.



The word "Soap" appearing on the drawing, being the name of the goods, is disclaimed apart from the mark shown.

Particular description of goods.—Laundry Soap.

Claims use since May 1, 1893.

Ser. No. 148,480. (CLASS 2. RECEPTACLES.) CONTINENTAL PAPER & BAG MILLS, New York, N. Y. Filed June 1, 1921.

CONTINENTAL

Particular description of goods.—Paper Bags, Egg-Cartons, and Merchandise-Envelops.
Claims use since about Apr. 1, 1900.

Ser. No. 148,563. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) STANDARD OIL COMPANY, Bayonne, N. J. Filed June 2, 1921.

Wyrol

Particular description of goods.—A Mineral Oil Primarily Used in the Preparation of Cold-Creams.
Claims use since May 10, 1921.

Ser. No. 148,782. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) WARSCHAUER & ROTH, New York, N. Y. Filed June 6, 1921

QUALITY BAGS
WARDTH
NEW YORK PARIS

No claim is made for the exclusive use of the descriptive words "Quality Bags" nor the geographical words "New York" and "Paris" apart from the mark as shown.
Particular description of goods.—Ladies' Handbags.
Claims use since about May 17, 1921.

Ser. No. 148,798. (CLASS 43. THREAD AND YARN.) HOLLAND MFG. CO., New York, N. Y. Filed June 7, 1921. Under ten-year proviso.

PEERLESS

Particular description of goods.—Sewing-Thread for Hand, Machine, and Embroidery Work.
Claims use since 1891.

Ser. No. 148,799. (CLASS 43. THREAD AND YARN.) HOLLAND MFG. CO., New York, N. Y. Filed June 7, 1921. Under ten-year proviso.

PRIME

Particular description of goods.—Sewing-Thread for Hand, Machine, and Embroidery Work.
Claims use since 1891.

Ser. No. 148,847. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MACARONI FOODS CORPORATION, Omaha, Nebr. Filed June 8, 1921.

Red Top

Particular description of goods.—Macaroni and Spaghetti Sealed in Paper Cartons, Also Egg-Noodles Put Up in Paper Packages.
Claims use since Apr. 18, 1921.

Ser. No. 148,859. (CLASS 43. THREAD AND YARN.) THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y., and Cumberland, Md. Filed June 9, 1921.

DREYFUSILK

Particular description of goods.—Yarns and Threads Made of Silk and Also of Artificial Silk.
Claims use since Jan. 17, 1921.

Ser. No. 148,881. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GENERAL COFFEE AND TEA COMPANY, Baltimore, Md. Filed June 9, 1921.

HOTEL
BELVEDERE

Particular description of goods.—Coffee.
Claims use since July 25, 1919.

Ser. No. 148,912. (CLASS 43. THREAD AND YARN.) THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y., and Cumberland, Md. Filed June 10, 1921.

AMCELLA

Particular description of goods.—Yarns and Threads Made of Silk and Also of Artificial Silk.
Claims use since June 3, 1921.

Ser. No. 148,915. (CLASS 38. PRINTS AND PUBLICATIONS.) RICHARD JAMES BIEGER, St. Louis, Mo. Filed June 10, 1921.

Pepless Pete

Particular description of goods.—Serial and Single Cartoons.
Claims use since Sept. 7, 1919.

Ser. No. 148,941. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) JOHN PETER LÆHRER, Belmont Park, N. Y. Filed June 10, 1921.



Particular description of goods.—Automobile-Vans and Motor-Trucks.
Claims use since Mar. 16, 1921.

Ser. No. 149,014. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y. Filed June 11, 1921.

WINTS

Consists of the word "Wints."
Particular description of goods.—Candies.
Claims use since May 3, 1921.

Ser. No. 149,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MASON, AU & MAGENHEIMER CONFECTIONERY MANUFACTURING COMPANY, Brooklyn, N. Y. Filed June 11, 1921.

TRUMPS

Consists of the word "Trumps."
Particular description of goods.—Candies.
Claims use since May 28, 1921.

Ser. No. 149,062. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 13, 1921.

PIQUANT

Particular description of goods.—Liquid and Powdered Perfumes.
Claims use since Apr. 13, 1921.

Ser. No. 149,064. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 13, 1921.

PRINCESS HARRAN

Particular description of goods.—Liquid and Powdered Perfumes.
Claims use since May 14, 1921.

Ser. No. 149,067. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 13, 1921.

SANDALAY

Particular description of goods.—Liquid and Powdered Perfumes.
Claims use since Apr. 13, 192..

Ser. No. 149,068. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) COLGATE & COMPANY, Jersey City, N. J. Filed June 13, 1921.

HOPE

Particular description of goods.—Liquid and Powdered Perfumes.
Claims use since Apr. 13, 1921.

Ser. No. 149,086. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) K. & G. LABORATORIES CO., Chicago, Ill. Filed June 13, 1921.

K & G

Particular description of goods.—Egg-Preservative.
Claims use since May 1, 1920.

Ser. No. 149,128. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) D. & D. REMEDY COMPANY, Chattanooga, Tenn. Filed June 14, 1921.

SYSTIRON

Particular description of goods.—A General Medicinal Tonic.
Claims use since Mar. 1, 1920.

Ser. No. 149,135. (CLASS 5. ADHESIVES.) THE R. M. HOLLINGSHEAD CO., Camden, N. J. Filed June 14, 1921.



Particular description of goods.—Mohair-Top-Patching Adhesive Outfit, Leather-Top-Patching Adhesive Outfit, Pantascope-Top-Patching Adhesive Outfit, Gasket Cement, and Rubber Cement.
Claims use since Apr. 1, 1920.

Ser. No. 149,209. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) B. & W. MFG. CO., Bloomington, Ill. Filed June 16, 1921.



Particular description of goods.—Poultry Feeding and Drinking Receptacles.
Claims use since about May 1, 1921.

Ser. No. 149,354. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PECTIN SALES CO. INC., Rochester, N. Y. Filed June 18, 1921.

CERTO

Particular description of goods.—Concentrated Fruit Pectin.
Claims use since Mar. 25, 1921.

Ser. No. 149,359. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) STATITE WATERPROOFING PRODUCTS CO. INC., Wilmington, Del., and New York, N. Y. Filed June 18, 1921.

Statite

Particular description of goods.—Waterproofing Liquid for Leather and Leather Substitutes, Textile Fabrics, Tents, Auto and Buggy Tops, Wagon-Sheets, Binder-Canvas, Tarpaulins, Awnings, Rain-Coats, Aeroplane-Wings, and Duck-Sacking.
Claims use since May 4, 1921.

Ser. No. 149,455. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GARDINER-LUCAS CO. INC., Brooklyn, N. Y. Filed June 21, 1921.

FAGOTS

Particular description of goods.—Hollow Sticks of Sugar Candy.
Claims use since 1916.

Ser. No. 149,456. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GARDINER-LUCAS CO. INC., Brooklyn, N. Y. Filed June 21, 1921.

ADMIRALS

Particular description of goods.—Hollow Sticks of Sugar Candy.
Claims use since 1916.

Ser. No. 149,531. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) VINSON COFFEE CO., Jackson, Tenn. Filed June 22, 1921.

SPARKLING CUP

Particular description of goods.—Coffee.
Claims use since May 1, 1921.

Ser. No. 149,577. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUTTERMILK SALES CO., Chicago, Ill. Filed June 24, 1921.

pDB

Particular description of goods.—Dried Buttermilk.
Claims use since Jan. 15, 1921.

Ser. No. 149,674. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) FRANK GAIUS BURKE, New York, N. Y. Filed June 27, 1921.



No claim being made for the representation of a package or to the wording shown, except the word "Corona."
Particular description of goods.—Toilet Soaps.
Claims use since 1907.

Ser. No. 149,755. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JACOB BROTHERS, Torrington, Conn. Filed June 28, 1921.

MANNA

Particular description of goods.—Candy and Chocolate Bars.
Claims use since May 13, 1921.

Ser. No. 149,844. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE ZIEGLER CO., Milwaukee, Wis. Filed June 29, 1921.



Particular description of goods.—Candies.
Claims use since Feb. 20, 1920

Ser. No. 150,003. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) N. B. COHEN, Scranton, Pa. Filed July 5, 1921.



No exclusive right is asserted to the words "Real—Human—Hair—Net—Sterilized" apart from the mark shown in the drawing.

Particular description of goods.—Hair-Nets.
Claims use since April, 1921.

Ser. No. 150,017. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. KRASNOW & SONS, INC., Pittsburgh, Pa. Filed July 5, 1921.



Particular description of goods.—Fresh Grapes.
Claims use since Apr. 22, 1921.

Ser. No. 150,065. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) E GREENFIELD'S SONS, New York and Brooklyn, N. Y. Filed July 6, 1921.



No claim being made to the word "Chocolate" apart from the mark shown in the drawing.

Particular description of goods.—Chocolate Candies.
Claims use since Jan. 22, 1912.

Ser. No. 150,085. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAMSON CANDY CO., Chicago, Ill. Filed July 6, 1921.

OH HENRY!

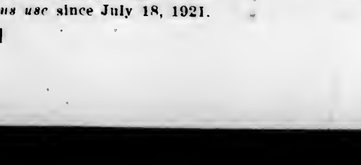
Particular description of goods.—Candy.
Claims use since November, 1920.

Ser. No. 150,584. (CLASS 15. OILS AND GREASES.) AMERICAN OIL CORPORATION, Jackson, Mich. Filed July 19, 1921.

GEARO

Particular description of goods.—Lubricating Oils and Greases.
Claims use since Jan. 1, 1917.

Ser. No. 150,585. (CLASS 15. OILS AND GREASES.) AMERICAN OIL CORPORATION, Jackson, Mich. Filed July 19, 1921.



Particular description of goods.—Lubricating Oils and Greases.
Claims use since January, 1921.

Ser. No. 150,776. (CLASS 15. OILS AND GREASES.) STANDARD OIL COMPANY OF NEW YORK, New York, N. Y. Filed July 21, 1921.

Tursel

Particular description of goods.—Petroleum Products for Lubricating, Illuminating, Heating, and Power Purposes.
Claims use since 1920.

Ser. No. 150,951. (CLASS 9. EXPLOSIVES, FIRE ARMS, EQUIPMENTS, AND PROJECTILES.) AUTO ORDNANCE CORPORATION, New York, N. Y. Filed July 26, 1921.

Thompson

The word "Thompson," forming an element of trade-mark, is a facsimile of the surname of General Tullaferro Thompson as written by him.

Particular description of goods.—Shotguns, Pistol fles, Machine-Guns, Submachine-Guns, Field-Guns, Guns, Seacoast-Guns, Naval Guns, Magazines for A Said Guns, and Bayonets.
Claims use since July 18, 1921.

Ser. No. 151,010. (CLASS 43. THREAD AND YARN.) JORDAN MARSH COMPANY, Boston, Mass. Filed July 27, 1921.

Avona

Particular description of goods.—Tie-Twist Silk.
Claims use since June 15, 1921.

Ser. No. 151,160. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) HICKS-FULLER COMPANY, Sioux City, Iowa. Filed July 30, 1921.

Brae Burn

Particular description of goods.—Cotton Piece Goods
Claims use since July 1, 1918.

Ser. No. 151,287. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PENN RIVET CORPORATION, Philadelphia, Pa. Filed Aug. 2, 1921.

BO-PEEP

Particular description of goods.—Hair-Nets.
Claims use since about May 1, 1921.

Ser. No. 151,374. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PENN RIVET CORPORATION, Philadelphia, Pa. Filed Aug. 4, 1921.



Particular description of goods.—Hair-Nets
Claims use since about May 1, 1921.

Ser. No. 151,602. (CLASS 12. CONSTRUCTION MATERIALS.) WARREN BROTHERS COMPANY, Boston, Mass. Filed Aug. 9, 1921.

ASBESTOPHALT

Particular description of goods.—Pavements and Paving Materials Containing Bituminous Matter.
Claims use since July 30, 1921.

Ser. No. 151,794. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEINE SAFETY BOILER CO., St. Louis, Mo. Filed Aug. 15, 1921.

HELIOS

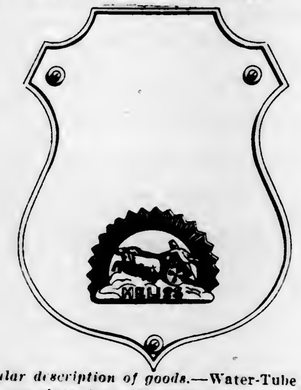
Particular description of goods.—Water-Tube Boilers.
Claims use since Sept. 29, 1905.

Ser. No. 151,795. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEINE SAFETY BOILER CO., St. Louis, Mo. Filed Aug. 15, 1921.



Particular description of goods.—Water-Tube Boilers.
Claims use since Sept. 29, 1905.

Ser. No. 151,796. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) HEINE SAFETY BOILER CO., St. Louis, Mo. Filed Aug. 15, 1921.



Particular description of goods.—Water-Tube Boilers.
Claims use since Sept. 29, 1905.

Ser. No. 151,933. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) BASTIAN-MORLEY CO., La Porte, Ind. Filed Aug. 19, 1921.

THE MARVEL

Particular description of goods.—Gas Water-Heaters.
Claims use since Oct. 8, 1915.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 20, 1921.

146,663. A MALTED BARLEY-SYRUP. ACME SUPPLY CO., Los Angeles, Calif.
Filed December 15, 1920. Serial No. 141,091. PUBLISHED MAY 24, 1921.

146,664. MEDICINAL PREPARATION FOR THE TREATMENT OF DISEASES DUE TO IMPROPER FUNCTIONING OF THE LIVER. EMORY COUNCIL ADAMS, Columbus, Ga.
Filed November 30, 1920. Serial No. 140,424. PUBLISHED MAY 24, 1921.

146,665. CERTAIN ARTICLES OF CLOTHING. DAVID ADES, Lexington, Ky.
Filed July 22, 1920. Serial No. 135,256. PUBLISHED MAY 24, 1921.

146,666. CANNED FRUIT—NAMELY, FRUIT PROCESSED WITH SYRUP AND GELATIN TO FORM A GELATINOUS MOLDED MASS. J. C. AINSLEY PACKING CO., Campbell, Calif.
Filed January 3, 1921. Serial No. 141,739. PUBLISHED MAY 24, 1921.

146,667. CERTAIN NAMED TANKS. AIR-TIGHT STEEL TANK COMPANY, Pittsburgh, Pa.
Filed September 9, 1919. Serial No. 122,455. PUBLISHED JUNE 14, 1921.

146,668. CHEWING-GUM. AMBOY PRODUCTS CO., Chicago, Ill.
Filed December 8, 1920. Serial No. 140,767. PUBLISHED MAY 31, 1921.

146,669. CERTAIN CLOTHS AND FABRICS IN THE PIECE, OF SILK, ARTIFICIAL SILK AND COMBINATIONS. THE AMERICAN CELLULOSE & CHEMICAL MANUFACTURING COMPANY, LIMITED, New York, N. Y.
Filed February 4, 1921. Serial No. 143,149. PUBLISHED MAY 31, 1921.

146,670. MEN'S, LADIES', AND CHILDREN'S UNDERWEAR, OF KNITTED AND TEXTILE FABRICS. AMERICAN DRY GOODS COMPANY, OF NEW YORK, New York, N. Y.
Filed December 22, 1920. Serial No. 141,406. PUBLISHED MAY 24, 1921.

146,671. MEN'S CLOTHING—NAMELY, SUITS AND OVERCOATS. AMERICAN FASHION CLOTHES, New York, N. Y.
Filed January 12, 1920. Serial No. 127,025. PUBLISHED MAY 24, 1921.

146,672 CERTAIN FARM, GARDEN, AND OTHER HAND-TOOLS. THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio.
Filed July 26, 1920. Serial No. 135,396. PUBLISHED MAY 24, 1921.

146,673. CORN-SYRUP FOR FOOD PURPOSES. AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill.
Filed January 11, 1921. Serial No. 142,054. PUBLISHED MAY 24, 1921.

146,674. CORN-SYRUP FOR FOOD PURPOSES. AMERICAN HOMINY COMPANY, Indianapolis, Ind., and Decatur, Ill.
Filed January 11, 1921. Serial No. 142,056. PUBLISHED MAY 24, 1921.

146,675. MATCHES. AMERICAN TRANSOCEANIC TRADERS, INC., New York, N. Y.
Filed October 18, 1920. Serial No. 138,423. PUBLISHED MAY 10, 1921.

146,676. TRIPOLI FILTER-STONES, PRESSURE-FILTERS, SIPHON-FILTERS, AND DISK FILTERS. AMERICAN TRIPOLI COMPANY, Seneca, Mo.
Filed July 22, 1920. Serial No. 135,260. PUBLISHED MAY 24, 1921.

146,677. TRIPOLI FILTER-STONES, PRESSURE-FILTERS, SIPHON-FILTERS, AND DISK FILTERS. AMERICAN TRIPOLI COMPANY, Seneca, Mo.
Filed July 22, 1920. Serial No. 135,261. PUBLISHED MAY 24, 1921.

146,678. ZINC OXID AND MIXTURES CONTAINING ZINC OXID FOR USE AS PAINT-PIGMENTS. AMERICAN ZINC, LEAD AND SMELTING COMPANY, Boston, Mass.
Filed November 8, 1920. Serial No. 139,342. PUBLISHED MAY 24, 1921.

146,679. FRESH CITRUS FRUITS. ANAHEIM CITRUS FRUIT ASSOCIATION, Anaheim, Calif.
Filed June 29, 1920. Serial No. 134,340. PUBLISHED JUNE 14, 1921.

146,680. A PREPARATION IN LIQUID FORM FOR A TREATMENT OF SKIN DISEASES. D. WEBSTER ANDERS, Boston, Mass., assignor to Herman Freed, Boston, Mass.
Filed January 9, 1920. Serial No. 126,950. PUBLISHED MAY 24, 1921.

146,681. COOKING AND SALAD OILS. AUNT JEMIMA MILLS COMPANY, St. Joseph, Mo.
Filed March 15, 1921. Serial No. 144,762. PUBLISHED JUNE 7, 1921.

146,682. PISTOLS. AUTO ORDNANCE CORPORATION, New York, N. Y.
Filed September 25, 1920. Serial No. 137,600. PUBLISHED APRIL 12, 1921.

146,683. TRACTORS AND MOTOR-PROPELLED AGRICULTURAL IMPLEMENTS. AVERY COMPANY, Peoria, Ill.
Filed January 13, 1921. Serial No. 142,191. PUBLISHED MAY 24, 1921.

146,684. PHONOGRAPHIC NEEDLES. W. H. BAGSHAW CO., Lowell, Mass.
Filed October 6, 1920. Serial No. 137,993. PUBLISHED MAY 31, 1921.

146,685. A PALLIATIVE FOR RHEUMATISM, COLDS, AND DISEASES OF THE THROAT AND MUSCLES. PAUL A. BALASZEK, Cleveland, Ohio.
Filed December 6, 1920. Serial No. 140,632. PUBLISHED MAY 24, 1921.

146,686. MIXED PAINTS IN OIL, ENAMELS, VARNISHES, WATERPROOF COATINGS, JAPANS, STAINS, LACQUERS, FILLERS. THE BEAVER VARNISH CO., INC., Buffalo, N. Y.
Filed October 9, 1920. Serial No. 138,120. PUBLISHED MAY 31, 1921.

146,687. A LIQUID MEDICINAL PREPARATION FOR THE TREATMENT OF ECZEMA. WILLIAM E. BENIKE, Milwaukee, Wis.
Filed June 24, 1920. Serial No. 134,103. PUBLISHED MAY 24, 1921.

146,688. SILK GOODS IN THE PIECE. BENTLY & TWOHEY SILK COMPANY, Newton, N. J., and New York, N. Y.
Filed January 20, 1921. Serial No. 142,468. PUBLISHED MAY 31, 1921.

146,689. A PREPARATION FOR THE TREATMENT OF PULMONARY DISEASES. ANNIE BERKOWITZ, Brooklyn, N. Y.
Filed December 30, 1920. Serial No. 141,662. PUBLISHED MAY 24, 1921.

146,690. SUGAR SUBSTITUTE. JOHN BERMAN, North Judson, Ind.
Filed September 11, 1920. Serial No. 137,064. PUBLISHED MAY 24, 1921.

146,691. FLEXIBLE NON-METALLIC SUPPORTS OF LEATHER OR LIKE MATERIAL. ALEXANDER E. BLOCK, St. Louis, Mo.
Filed March 6, 1920. Serial No. 129,301. PUBLISHED JUNE 14, 1921.

146,692. BABY-CARRIAGES. BLOCH GO-CART COMPANY, Philadelphia, Pa.
Filed November 5, 1920. Serial No. 139,182. PUBLISHED MAY 24, 1921.

146,693. A STRAW-HAT DYE. BOSTON BLACKING COMPANY, Portland, Me., and East Cambridge, Mass.
Filed March 11, 1920. Serial No. 129,534. PUBLISHED MAY 24, 1921.

146,694. A STRAW-HAT DYE. BOSTON BLACKING COMPANY, Portland, Me., and East Cambridge, Mass.
Filed March 11, 1920. Serial No. 129,535. PUBLISHED MAY 24, 1921.

146,695. GINGHAM PIECE GOODS. THE BOSTON MANUFACTURING COMPANY, 1901, Waltham, Mass.
Filed February 3, 1921. Serial No. 143,114. PUBLISHED MAY 24, 1921.

146,696. COMB AND EXTRACTED HONEY. REGINALD D. BRADSHAW, Payette, Idaho.
Filed November 15, 1920. Serial No. 139,663. PUBLISHED MAY 24, 1921.

146,697. LAWN-SWINGS. GEORGE H. BUGENHAGEN, Minot, N. D.
Filed November 21, 1919. Serial No. 125,149. PUBLISHED MAY 31, 1921.

146,698. HAIR-TONIC. GIUSEPPE BUONAIUTO, New York, N. Y.
Filed November 10, 1920. Serial No. 139,448. PUBLISHED MAY 24, 1921.

146,699. HEALING-PLASTERS FOR WOUNDS, CUTS, AND BRUISES. ALOIS BURAN, Ridgewood, N. Y.
Filed November 19, 1920. Serial No. 139,841. PUBLISHED MAY 24, 1921.

146,700. A VEGETABLE BLOOD-PURIFIER. WILLIAM S. BURKHART, Cincinnati, Ohio.
Filed July 8, 1920. Serial No. 134,692. PUBLISHED MAY 24, 1921.

146,701. CANDY, PEANUTS, AND POPCORN. ALFRED H. BURT, Buffalo, N. Y.
Filed October 25, 1920. Serial No. 138,750. PUBLISHED MAY 31, 1921.

146,702. CERTAIN NAMED CHEMICALS. CALIFORNIA ALKALI COMPANY, Los Angeles, Calif.
Filed November 23, 1920. Serial No. 140,019. PUBLISHED MAY 24, 1921.

146,703. FRUIT LAXATIVE. THE CANDI-LAX MFG. CO., Cincinnati, Ohio.
Filed May 11, 1920. Serial No. 132,297. PUBLISHED MAY 24, 1921.

146,704. A FACE-LOTION. ELMER CARPENTER, Harvard, Ill.
Filed November 17, 1920. Serial No. 139,738. PUBLISHED MAY 24, 1921.

146,705. SODA BISCUITS AND CRACKERS. J. B. CARR BISCUIT CO., Wilkes-Barre, Pa.
Filed May 17, 1920. Serial No. 132,512. PUBLISHED MAY 24, 1921.

146,706. OLIVE-OIL AND CANNED OLIVES. ANGEL GABRIEL DEL CASTILLO, Seville, Spain.
Filed November 5, 1920. Serial No. 139,197. PUBLISHED MAY 24, 1921.

146,707. LAUNDRY-WASHING MACHINES AND WRINGERS. CENTRAL MANUFACTURING COMPANY, St. Louis, Mo.
Filed July 12, 1920. Serial No. 134,809. PUBLISHED MAY 24, 1921.

146,708. NON-ALCOHOLIC, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. CHATHAM BOTTLING COMPANY, Savannah, Ga.
Filed September 8, 1920. Serial No. 136,934. PUBLISHED MAY 31, 1921.

146,709. WOVEN, KNITTED, NETTED, TEXTILE, AND PILE FABRICS IN THE PIECE, WHOLLY, OR PARTLY OF SILK. CHENEY BROTHERS, South Manchester, Conn.
Filed March 2, 1921. Serial No. 144,219. PUBLISHED MAY 31, 1921.

146,710. CANVAS BELTING. THE CHESAPEAKE BELTING COMPANY, Baltimore, Md.
Filed April 6, 1921. Serial No. 145,770. PUBLISHED MAY 31, 1921.

146,711. BURLAP, JUTE, AND COTTON BAGS. HENRY CHESLER, Cleveland, Ohio.
Filed September 22, 1920. Serial No. 137,445. PUBLISHED JUNE 14, 1921.

146,712. CERTAIN ARTICLES OF CLOTHING. COMMERCIAL TRADING COMPANY, Boston, Mass.
Filed July 29, 1920. Serial No. 135,551. PUBLISHED MAY 24, 1921.

146,713. CERTAIN ARTICLES OF CLOTHING. COMMERCIAL TRADING COMPANY, Boston, Mass.
Filed July 30, 1920. Serial No. 135,595. PUBLISHED MAY 24, 1921.

146,714. CERTAIN ARTICLES OF CLOTHING. COMMERCIAL TRADING COMPANY, Boston, Mass.
Filed September 8, 1920. Serial No. 136,928. PUBLISHED MAY 24, 1921.

146,715. CERTAIN ARTICLES OF CLOTHING. COMMERCIAL TRADING COMPANY, Boston, Mass.
Filed September 8, 1920. Serial No. 136,929. PUBLISHED MAY 24, 1921.

146,716. CIGARS. COMMONWEALTH CIGAR CO., St. Louis, Mo.
Filed August 18, 1920. Serial No. 136,230. PUBLISHED MAY 31, 1921.

146,717. PERFUMES, TOILET WATERS, AND BRILLIANTINE, INCLUDING PERFUMES FOR FACE-POWDERS, SACHET-POWDERS, LOTIONS, SOAP, AND DENTIFRICES. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed November 2, 1920. Serial No. 139,079. PUBLISHED MAY 24, 1921.

146,718. POULTRY-TONICS. COTTO WAXO CO., St. Louis, Mo.
Filed November 15, 1920. Serial No. 139,665. PUBLISHED MAY 24, 1921.

146,719. PERFUMES AND TOILET WATERS. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed November 2, 1920. Serial No. 139,080. PUBLISHED MAY 24, 1921.

146,720. GENERAL TONIC. CROWN PRODUCTS CO., New York, N. Y.
Filed November 24, 1920. Serial No. 140,096. PUBLISHED MAY 24, 1921.

146,721. FRESH CITRUS FRUITS — NAMELY, ORANGES, TANGERINES, AND GRAPEFRUIT. DADE CITY PACKING CO., Dade City, Fla.
Filed January 4, 1921. Serial No. 141,830. PUBLISHED JUNE 7, 1921.

146,722. COFFEE. DAVIDSON-LAKE TEA AND COFFEE CO., Salt Lake City, Utah.
Filed January 12, 1921. Serial No. 142,135. PUBLISHED JUNE 7, 1921.

146,723. VENTILATORS AND CHIMNEY-CAPS. THE DAY COMPANY, Minneapolis, Minn.
Filed March 26, 1921. Serial No. 145,257. PUBLISHED MAY 24, 1921.

146,724. PAINT-BRUSHES. JAMES B. DAY & CO., Chicago, Ill.
Filed September 18, 1920. Serial No. 137,314. PUBLISHED APRIL 5, 1921.

146,725. ARTIFICIAL MINERAL WATER USED FOR MEDICINAL PURPOSES. DIAMOND CHEMICAL CO., San Francisco, Calif.
Filed November 19, 1920. Serial No. 139,854. PUBLISHED MAY 24, 1921.

146,726. CAKE, WAFERS, AND PANCAKE-FLOUR. DIAMOND PURE FOOD COMPANY, Jeffersonville, Ind.
Filed November 9, 1920. Serial No. 139,394. PUBLISHED MAY 24, 1921.

146,727. A CERTAIN NAMED MEDICINAL PREPARATION. THE DILL COMPANY, Norristown, Pa.
Filed December 2, 1920. Serial No. 140,523. PUBLISHED MAY 24, 1921.

146,728. RUBBER TIRES AND PARTS THEREOF—NAMELY, TUBES, SHOES, AND CASINGS. DUNLOP TIRE AND RUBBER CORPORATION OF AMERICA, Tonawanda, N. Y.
Filed November 30, 1920. Serial No. 140,432. PUBLISHED MAY 31, 1921.

146,729. SPARK-PLUGS FOR IGNITION SYSTEMS FOR INTERNAL-COMBUSTION ENGINES. THE E. C. MANUFACTURING COMPANY, Elkhart, Ind.
Filed September 16, 1920. Serial No. 137,256. PUBLISHED MAY 31, 1921.

146,730. CHILDREN'S, MISSES', AND GROWING-GIRLS' LEATHER SHOES. J. EDWARDS & CO., INC., Philadelphia, Pa.
Filed December 27, 1920. Serial No. 141,518. PUBLISHED MAY 24, 1921.

146,731. INDIA LINON, GINGHAMS, POPLIN, LONG CLOTH, NAINSOOK, BATISTES, VOILES, AND DIMITIES IN THE PIECE. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo.
Filed February 18, 1921. Serial No. 143,749. PUBLISHED MAY 31, 1921.

146,732. FOOD AND FOOD INGREDIENTS—NAMELY, COFFEE, TEAS, SPICES, CANNED FRUITS, VEGETABLES, PORK AND BEANS, FISH, ROLLED OATS, MACARONI, SPAGHETTI, NOODLES. A. ENGELHARD & SONS COMPANY, Louisville, Ky.
Filed April 5, 1920. Serial No. 130,665. PUBLISHED MAY 24, 1921.

146,733. MAYONNAISE; CATSUP; FOOD OILS; PICKLES; VINEGAR; CANNED SOUPS, MEATS, FRUITS AND VEGETABLES. ESCOFFIER LIMITED, London, England.
Filed June 16, 1920. Serial No. 133,773. PUBLISHED JUNE 14, 1921.

146,734. HAIR-BRUSHES, CLOTHES-BRUSHES, TOOTHBRUSHES, AND NAIL-BRUSHES. THE FIBERLOID CORPORATION, Indian Orchard, Mass.
Filed July 31, 1920. Serial No. 135,646. PUBLISHED MAY 24, 1921.

146,735. PERFORATED MUSIC ROLLS OR SHEETS FOR USE WITH MECHANICAL PLAYER INSTRUMENTS. FILMUSIC COMPANY, Los Angeles, Calif.
Filed February 24, 1920. Serial No. 128,774. PUBLISHED MAY 31, 1921.

146,736. HOT-WATER HEATERS. FLASH HOT WATER HEATER CO., Philadelphia, Pa.
Filed February 8, 1921. Serial No. 143,319. PUBLISHED MAY 24, 1921.

146,737. BOOTS AND SHOES MADE OF LEATHER. THE FLORSHEIM SHOE COMPANY, Chicago, Ill.
Filed December 18, 1920. Serial No. 141,260. PUBLISHED MAY 24, 1921.

146,738. NATURAL MINERAL WATER. PIO CABAÑAS FONT, Barcelona, Spain.
Filed August 28, 1919. Serial No. 122,083. PUBLISHED JUNE 14, 1921.

146,739. VAPORIZED GRAPES. T. W. W. FORREST, Oakland, Calif.
Filed December 29, 1920. Serial No. 141,632. PUBLISHED MAY 24, 1921.

146,740. WOOLEN PIECE GOODS. FORSTMANN & HUFFMANN COMPANY, Passaic, N. J.
Filed December 11, 1920. Serial No. 140,935. PUBLISHED MAY 24, 1921.

146,741. PREPARATIONS FOR USE IN CONNECTION WITH THE DIGESTIVE DISORDERS. FOSTER-MCCLELLAN CO., Buffalo, N. Y., and London, England.
Filed January 5, 1921. Serial No. 141,860. PUBLISHED MAY 24, 1921.

146,742. VANILLA EXTRACT. RICHARD FRANK, New York, N. Y.
Filed March 5, 1921. Serial No. 144,318. PUBLISHED JUNE 7, 1921.

146,743. MILITARY GAME-BOARD. ARTHUR FRANKENSTEIN, New York, N. Y.
Filed October 21, 1920. Serial No. 138,634. PUBLISHED JUNE 14, 1921.

146,744. ALCOHOLIC BEVERAGE TINCTURED WITH ANISE. ANTONIO FREIXAS, Buenos Aires, Argentina.
Filed August 28, 1918. Serial No. 112,911. PUBLISHED JUNE 14, 1921.

146,745. LEATHER. FRIEDLANDER LEATHER CO., INC., New York, N. Y.
Filed February 14, 1921. Serial No. 143,552. PUBLISHED MAY 24, 1921.

146,746. CANTALOUPS AND LETTUCE. FRUIT DISTRIBUTORS SERVICE CO., INC., Chicago, Ill.
Filed November 23, 1920. Serial No. 140,030. PUBLISHED MAY 31, 1921.

146,747. FRESH AND DRIED FRUITS—NAMELY, FRESH, DRIED, AND EVAPORATED APPLES. GARCIA & MAGGINI CO., San Francisco, Fresno, Watsonville, Sebastopol, Santa Rosa, Forestville, and Healdsburg, Calif.
Filed September 24, 1920. Serial No. 137,578. PUBLISHED MAY 24, 1921.

146,748. PHOTOGRAPHIC DEVELOPERS. GUSTAVE C. GENNERT, New York, N. Y.
Filed December 31, 1920. Serial No. 141,720. PUBLISHED MAY 24, 1921.

146,749. CONCENTRATED FRUIT-SYRUP BASE, SOFT DRINKS, NON-ALCOHOLIC, AND WINTERGREEN FLAVORING EXTRACT. CESAR GHIGLINO, New York, N. Y.
Filed April 17, 1920. Serial No. 131,263. PUBLISHED MAY 31, 1921.

146,750. FLAVORING-VANILLA, A FLUID EXTRACT USED TO FLAVOR FOOD. GIBSON COMMERCIAL CO., Salt Lake City, Utah.
Filed November 1, 1920. Serial No. 139,036. PUBLISHED MAY 31, 1921.

146,751. PHONOGRAPHS AND PARTS THEREOF. MAX L. GOLDBERT, New York, N. Y.
Filed March 17, 1920. Serial No. 129,842. PUBLISHED MAY 31, 1921.

146,752. A CERTAIN NAMED MEDICINAL PREPARATION. HERMAN B. GOLDMAN, Baltimore, Md.
Filed February 7, 1920. Serial No. 128,090. PUBLISHED MAY 24, 1921.

146,753. SHAMPOO, TOILET POWDER, AND TOILET CREAM. GRAHAM BROS. SOAP COMPANY, Chicago, Ill.
Filed November 20, 1920. Serial No. 139,886. PUBLISHED MAY 24, 1921.

146,754. NON-ALCOHOLIC, MALTLESS, NON-CEREAL BEVERAGE SOLD AS A SOFT DRINK AND SYRUP FOR MAKING THE SAME. GRAY-JUERGENS CO., Cincinnati, Ohio.
Filed December 12, 1919. Serial No. 125,884. PUBLISHED MAY 31, 1921.

146,755. OLIVE-OIL. MARTI Y GUTIÉRREZ, Seville, Spain.
Filed March 9, 1920. Serial No. 129,461. PUBLISHED MAY 24, 1921.

146,756. WATCHES, WATCHCASES, AND WATCH-MOVEMENTS. B. GUTTER & SONS, New York, N. Y.
Filed November 11, 1920. Serial No. 139,527. PUBLISHED MAY 31, 1921.

146,757. SILK, WOOLEN, LINEN, AND COTTON PIECE GOODS AND COMBINATIONS THEREOF. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed April 30, 1920. Serial No. 131,869. PUBLISHED MAY 31, 1921.

146,758. SILK, WOOLEN, LINEN, AND COTTON PIECE GOODS AND COMBINATIONS THEREOF. HAAS BROTHERS FABRICS CORPORATION, New York, N. Y.
Filed April 30, 1920. Serial No. 131,870. PUBLISHED MAY 31, 1921.

146,759. FACE-LOTIONS AND HAIR-TONICS. Dr. JOSEPH HAAS, New York, N. Y.
Filed June 28, 1920. Serial No. 134,314. PUBLISHED MAY 24, 1921.

146,760. GASOLENE AND KEROSENE. HAMMER & Co., San Francisco, Calif.
Filed June 24, 1919. Serial No. 119,887. PUBLISHED MAY 31, 1921.

146,761. BREAKFAST-SAUSAGES. HAMMOND STANDISH & Co., Detroit, Mich.
Filed December 12, 1919. Serial No. 125,890. PUBLISHED MAY 31, 1921.

146,762. BUTTER-COLOR. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y.
Filed December 28, 1920. Serial No. 141,562. PUBLISHED MAY 24, 1921.

146,763. FOOD-COLORS. CHR. HANSEN'S LABORATORY, INC., Little Falls, N. Y.
Filed December 28, 1920. Serial No. 141,563. PUBLISHED MAY 24, 1921.

146,764. TICKINGS, COTTON SUITINGS, MUSLINS, SERGES, TWILLS, CAMBRICS, PRINTS IN THE PIECE, AND COTTON BLANKETS. H. HAUSMAN & COMPANY, New York, N. Y.
Filed September 4, 1920. Serial No. 136,840. PUBLISHED MAY 24, 1921.

146,765. CANDY. HAWLEY & HOOPS, New York, N. Y.
Filed October 5, 1920. Serial No. 137,940. PUBLISHED MAY 24, 1921.

146,766. HAND LIFTING-TRUCKS. HESCO LIMITED, London, England.
Filed December 15, 1920. Serial No. 141,102. PUBLISHED MAY 24, 1921.

146,767. BASEBALL-BATS. HILLERICH & BRADSBY CO., INC., Louisville, Ky.
Filed October 4, 1920. Serial No. 137,883. PUBLISHED JUNE 14, 1921.

146,768. WORSTED AND WOOLEN TEXTILE FABRICS IN THE PIECE. HOLDEN-LEONARD CO., New York, N. Y.
Filed February 15, 1921. Serial No. 143,598. PUBLISHED MAY 31, 1921.

146,769. WORSTED AND WOOLEN TEXTILE FABRICS IN THE PIECE. HOLDEN-LEONARD COMPANY, New York, N. Y.
Filed March 11, 1921. Serial No. 144,619 PUBLISHED MAY 31, 1921.

146,770. GENERAL TONIC. WILLIAM G. HOLLEY, Fort Wayne, Ind.
Filed December 11, 1920. Serial No. 140,942. PUBLISHED MAY 24, 1921.

146,771. A CERTAIN NAMED SPRAYING COMPOUND. HOOD RIVER SPRAY COMPANY, Hood River, Oreg.
Filed January 3, 1921. Serial No. 141,782. PUBLISHED MAY 24, 1921.

146,772. PERFUMES, TOILET WATERS, FACE-POWDERS, LOTIONS FOR THE SKIN AND HANDS, SACHETS, SACHET-POWDERS, AND BRILLIANTINE. PARFUMERIE HOUBIGANT, Paris, France, assignors to Houbigant, Inc., New York, N. Y., a Corporation of New York.
Filed November 23, 1920. Serial No. 140,037. PUBLISHED MAY 24, 1921.

146,773. METAL-CUTTING OILS. E. F. HOUGHTON & Co., Philadelphia, Pa.
Filed October 27, 1920. Serial No. 138,854. PUBLISHED MAY 31, 1921.

146,774. METAL-CUTTING OILS. E. F. HOUGHTON & Co., Philadelphia, Pa.
Filed November 18, 1920. Serial No. 139,836½. PUBLISHED MAY 31, 1921.

146,775. CANDY. HOWARD H. HOYT CANDY CO., Chicago, Ill.
Filed March 10, 1921. Serial No. 144,572. PUBLISHED JUNE 7, 1921.

146,776. HAIR-DRESSING. HYMAN & OPPENHEIM, New York, N. Y.
Filed November 24, 1920. Serial No. 140,115. PUBLISHED MAY 24, 1921.

146,777. PACKAGE-COFFEE AND PACKAGE-RICE. JOHN NICHOLAS JENTZ, Jersey City, N. J.
Filed June 30, 1920. Serial No. 134,421. PUBLISHED MAY 24, 1921.

146,778. RIBBONS. JOHNSON, COWDIN & COMPANY, INC., New York, N. Y.
Filed September 21, 1920. Serial No. 137,417. PUBLISHED MAY 24, 1921.

146,779. RIBBONS. JOHNSON, COWDIN & COMPANY, INC., New York, N. Y.
Filed September 21, 1920. Serial No. 137,418. PUBLISHED MAY 24, 1921.

146,780. RADIATORS, FENDERS, MUD-GUARDS, AND HOODS FOR AUTOMOBILES, MOTOR-TRUCKS, AND TRACTORS. SHOTWELL JOHNSON CO., Minneapolis, Minn.
Filed February 7, 1921. Serial No. 143,299. PUBLISHED MAY 31, 1921.

146,781. HAIR-RESTORER. JOHN W. JONES, Fletcher, Okla.
Filed December 11, 1920. Serial No. 140,946. PUBLISHED MAY 24, 1921.

146,782. PEANUT-SANDWICHES HAVING A LAYER OF GROUND PEANUTS OR PEANUT-BUTTER BETWEEN CRACKERS OR THE LIKE. ROBERT G. JORDAN, Jr., Macon, Ga.
Filed May 13, 1920. Serial No. 132,409. PUBLISHED MAY 24, 1921.

146,783. A CHEMICAL PREPARATION FOR INTENSIFYING GASOLENE. THE J-R PRODUCTS COMPANY, Cincinnati, Ohio.
Filed January 22, 1921. Serial No. 142,623. PUBLISHED JUNE 14, 1921.

146,784. MOLDING-SAND. THE KEENER SAND & CLAY Co., Columbus, Ohio.
Filed November 22, 1920. Serial No. 139,982. PUBLISHED MAY 24, 1921.

146,785. BUTTER-SCOTCH CANDY. WILLAM J. KELLEHER, Toronto, Ontario, Canada.
Filed December 7, 1920. Serial No. 140,732. PUBLISHED MAY 31, 1921.

146,786. GOITER-REDUCER OR GOITER TREATMENT. WILLIAM T. KELLEY, Kirkwood, Mo.
Filed November 22, 1920. Serial No. 139,983. PUBLISHED MAY 24, 1921.

146,787. FLANNEL, BEING WOOLEN PIECE GOODS. KELSALL & KEMP LIMITED, The Butts, Rochdale, England.
Filed December 15, 1920. Serial No. 141,119. PUBLISHED MAY 24, 1921.

146,788. CANDY. KING CANDY CO., Fort Worth, Tex.
Filed October 7, 1920. Serial No. 138,053. PUBLISHED JUNE 14, 1921.

146,789. MEN'S AND YOUNG MEN'S OUTER SUITS AND OVERCOATS. A. B. KIRSCHBAUM COMPANY, Philadelphia, Pa.
Filed January 10, 1921. Serial No. 142,019. PUBLISHED MAY 24, 1921.

146,790. DISINFECTANTS. L. WILHJELM KJAER, Copenhagen, Denmark.
Filed April 22, 1920. Serial No. 131,484. PUBLISHED MAY 24, 1921.

146,791. ELECTRIC HAND-DRILLS. KNIGHT ENGINEERING & SALES CO., Los Angeles, Calif.
Filed September 21, 1920. Serial No. 137,419. PUBLISHED MAY 31, 1921.

146,792. FACE-POWDER. FANNIE KNIGHTS, Wichita, Kans.
Filed December 23, 1920. Serial No. 141,461. PUBLISHED MAY 24, 1921.

146,793. BREAD. ADOLPH KOMENT, Jersey City, N. J.
Filed November 12, 1920. Serial No. 139,580. PUBLISHED MAY 24, 1921.

146,794. WOODEN SHINGLES. KRAUSS BROS. LUMBER Co., New Orleans, La.
Filed January 31, 1921. Serial No. 142,980. PUBLISHED MAY 24, 1921.

146,795. ELECTRICALLY-LIGHTED SIGNALS AND PARTS THEREOF. OSCAR KROEHLE, Cleveland, Ohio.
Filed July 10, 1920. Serial No. 134,781. PUBLISHED MAY 31, 1921.

146,796. FRESH, SMOKED, AND SALTED MEATS, AND LARD. GERHARD LANG, Buffalo, N. Y.
Filed December 6, 1920. Serial No. 140,662. PUBLISHED MAY 24, 1921.

146,797. HARDENING AND WATERPROOFING LIQUID FOR TREATING CONCRETE FLOORS. LA-LO CHEMICAL COMPANY, Providence, R. I.
Filed February 28, 1917. Serial No. 101,788. PUBLISHED MAY 31, 1921.

146,798. A PREPARATION FOR THE TREATMENT OF PROTRUDING, ITCHING, AND BLEEDING PILES. BENJAMIN AUSTIN LEATHERMAN, Washington, D. C.
Filed November 4, 1920. Serial No. 139,166. PUBLISHED MAY 24, 1921.

146,799. FELT-SURFACED SHOE POLISHERS AND BRUSHES AND BRUSHES AND DUSTERS FOR PHONOGRAPHIC RECORDS. WILLIAM R. LEE, Rochester, N. Y.
Filed November 4, 1919. Serial No. 124,527. PUBLISHED MAY 3, 1921.

146,800. AN EXTERNAL REMEDY USEFUL IN THE TREATMENT OF ECZEMA AND OTHER SKIN AFFECTIONS. O. I. LEWIS, Albuquerque, N. Mex.
Filed December 28, 1920. Serial No. 141,594. PUBLISHED MAY 24, 1921.

146,801. CANDIES. LIBERTY CANDY COMPANY, Grand Rapids, Mich.
Filed August 6, 1920. Serial No. 135,858. PUBLISHED JUNE 14, 1921.

146,802. CANDY. LIBERTY ORCHARDS COMPANY, Cashmere, Wash.
Filed March 5, 1921. Serial No. 144,338. PUBLISHED JUNE 7, 1921.

146,803. BARK FROM WHICH TANNING SUBSTANCES OR EXTRACTS ARE MADE. HAROLD M. MCARTHUR & Co. LIMITED, Liverpool, England.
Filed October 26, 1920. Serial No. 138,819. PUBLISHED MAY 24, 1921.

146,804. CANDIES, CHOCOLATES, AND FRUIT CONFECTIONS. J. G. MCDONALD CHOCOLATE CO., Salt Lake City, Utah.
Filed February 25, 1921. Serial No. 144,029. PUBLISHED JUNE 7, 1921.

146,805. CANDY. MCKUSICK-TOWLE & COMPANY, Minneapolis, Minn.
Filed November 19, 1920. Serial No. 139,861. PUBLISHED MAY 24, 1921.

146,806. FACE-POWDER IN PASTE FORM. MAGIC BEAUTIFIER COMPANY, New York, N. Y.
Filed November 1, 1920. Serial No. 139,042. PUBLISHED MAY 24, 1921.

146,807. FLUE-LININGS. MALLEABLE IRON RANGE COMPANY, Beaver Dam, Wis.
Filed April 4, 1921. Serial No. 145,698. PUBLISHED MAY 24, 1921.

146,808. SILK PIECE GOODS. H. R. MALLINSON & Co., INC., New York, N. Y.
Filed March 9, 1921. Serial No. 144,535. PUBLISHED MAY 31, 1921.

146,809. SILK PIECE GOODS. H. R. MALLINSON & Co, INC., New York, N. Y.
Filed March 9, 1921. Serial No. 144,537. PUBLISHED MAY 31, 1921.

146,810. A CONCENTRATED CULINARY PREPARATION, BEING A VEGETABLE EXTRACT PREPARED FROM THE YEAST-CELL. THE MARMITE FOOD EXTRACT CO., LIMITED, London, England.
Filed December 24, 1920. Serial No. 141,498. PUBLISHED MAY 24, 1921.

146,811. EXPANDED VULCANIZED RUBBER FOR TIRES, TUBES, SHOCK-ABSORBERS, AND OTHER PURPOSES. CHARLES LANCASTER MARSHALL, London, England.
Filed July 30, 1920. Serial No. 135,609. PUBLISHED MAY 24, 1921.

146,812. PIECE GOODS—NAMELY, COTTON DUCK. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,280. PUBLISHED MAY 31, 1921.

146,813. MUSLINS IN THE PIECE. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,304. PUBLISHED MAY 24, 1921.

146,814. BEDSPREADS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,317. PUBLISHED MAY 24, 1921.

146,815. BEDSPREADS. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed November 27, 1920. Serial No. 140,319. PUBLISHED MAY 24, 1921.

146,816. SMOKED AND DRIED MEATS AND DRIED SAUSAGE. B. MEIER & SON, New York, N. Y.
Filed December 2, 1920. Serial No. 140,536. PUBLISHED MAY 24, 1921.

146,817. A TONIC USED AS A BLOOD-BUILDER AND NERVE-TONIC. THE MIHALOVITCH CO., Cincinnati, Ohio.
Filed December 30, 1920. Serial No. 141,685. PUBLISHED MAY 24, 1921.

146,818. A CREAM FOR ECZEMA. WILLIAM H. MOORE, Kansas City, Mo.
Filed December 28, 1920. Serial No. 141,595. PUBLISHED MAY 24, 1921.

146,819. SHOES OF LEATHER, FABRIC, AND COMBINATIONS. Morse & Burt Co. Inc., Brooklyn, N. Y.
Filed September 4, 1920. Serial No. 136,844. PUBLISHED MAY 24, 1921.

146,820. WHEAT-FLOUR. The Moundridge Milling Co., Moundridge, Kans.
Filed August 21, 1920. Serial No. 136,333. PUBLISHED JANUARY 18, 1921.

146,821. LICORICE CONFECTIONS. The John Mueller Licorice Co., Cincinnati, Ohio.
Filed July 12, 1920. Serial No. 134,832. PUBLISHED JUNE 14, 1921.

146,822. LOCKS AND LATCHES. C. A. Nash & Son, Inc., Norfolk, Va.
Filed August 25, 1920. Serial No. 136,483. PUBLISHED MAY 17, 1921.

146,823. CANDY. John L. Newbold, Washington, D. C.
Filed March 23, 1921. Serial No. 145,118. PUBLISHED JUNE 7, 1921.

146,824. HAIR-POMADE. Newbro Manufacturing Company, Atlanta, Ga.
Filed November 10, 1920. Serial No. 139,471. PUBLISHED MAY 24, 1921.

146,825. POLISH FOR AUTOMOBILES, PIANOS, VICTROLAS, FURNITURE, AND ALL ENAMELED AND VARNISHED SURFACES. Noxal Polish Manufacturing Company, Philadelphia, Pa.
Filed October 14, 1920. Serial No. 138,295. PUBLISHED MAY 31, 1921.

146,826. LOCAL ANESTHETICS. Novocol Chemical M'f'g. Co., Inc., Brooklyn, N. Y.
Filed January 4, 1921. Serial No. 141,842. PUBLISHED MAY 24, 1921.

146,827. A VEGETABLE SHORTENING. The Nucoa Butter Company, New York, N. Y.
Filed January 29, 1921. Serial No. 142,938. PUBLISHED JUNE 7, 1921.

146,828. DOUGHNUTS. Timothy J. O'Leary, Los Angeles, Calif.
Filed July 19, 1920. Serial No. 135,163. PUBLISHED MAY 24, 1921.

146,829. ALL KINDS OF PASTRIES, CAKES, AND COOKIES. The One Thousand and One Madison Avenue French Pastry and Restaurant Co. Inc., New York, N. Y.
Filed October 14, 1920. Serial No. 138,299. PUBLISHED MAY 24, 1921.

146,830. CERTAIN NAMED MEDICINAL AND PHARMACEUTICAL PREPARATIONS. The Owl Drug Company, San Francisco, Calif.
Filed June 22, 1920. Serial No. 134,030. PUBLISHED MAY 24, 1921.

146,831. WHEAT CEREAL, SUGAR-COATED. Package Confectionery Company, Boston, Mass.
Filed March 2, 1920. Serial No. 129,150. PUBLISHED MAY 24, 1921.

146,832. CERTAIN NAMED MEDICINAL PREPARATION. John Paladino, Philadelphia, Pa.
Filed November 29, 1920. Serial No. 140,400. PUBLISHED MAY 24, 1921.

146,833. VITAMIN PRODUCTS FOR THERAPEUTIC ADMINISTRATION TO PROMOTE NUTRITION. Parke, Davis & Company, Detroit, Mich.
Filed November 6, 1920. Serial No. 139,305. PUBLISHED MAY 24, 1921.

146,834. NAIL-POLISH IN POWDER FORM. Irving R. Parsons, Chicago, Ill.
Filed November 29, 1920. Serial No. 140,399. PUBLISHED MAY 24, 1921.

146,835. LEDGER-PAPER. The Peerless Paper Company, Dayton, Ohio.
Filed September 28, 1920. Serial No. 137,710. PUBLISHED MAY 31, 1921.

146,836. PRINTING, WRITING, COVER, AND BOND PAPER FOR WRAPPING, WRITING, AND PRINTING PURPOSES. Peninsular Paper Company, Ypsilanti, Mich.
Filed August 27, 1919. Serial No. 122,050. PUBLISHED MAY 31, 1921.

146,837. CHILDREN'S ONE AND TWO PIECE DRESSES, ROMPERS, HATS, AND TEXTILE FABRIC UNDERWEAR. Mary Prefect, San Diego, Calif.
Filed September 27, 1920. Serial No. 137,674. PUBLISHED MAY 24, 1921.

146,838. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, CONDIMENTS AND COFFEE. Peyton-Palmer Co., Danville, Ill.
Filed September 23, 1920. Serial No. 137,540. PUBLISHED MAY 24, 1921.

146,839. BITUMINOUS RUBBER PAINT. F. O. Pierce Company, New York, N. Y.
Filed October 9, 1920. Serial No. 138,136. PUBLISHED MAY 31, 1921.

146,840. CALCIUM COMPOUNDS. Riches, Piver & Co., Elizabeth, N. J., and New York, N. Y.
Filed November 17, 1920. Serial No. 139,752. PUBLISHED MAY 24, 1921.

146,841. FRESH DECIDUOUS FRUIT. Plummer & Edwins, Seattle, Wash.
Filed January 12, 1921. Serial No. 142,165. PUBLISHED MAY 24, 1921.

146,842. SEWING-THREADS. Max Pollack & Co., Inc., New York, N. Y.
Filed April 13, 1921. Serial No. 146,131. PUBLISHED MAY 31, 1921.

146,843. SEWING-THREADS. Max Pollack & Co., Inc., New York, N. Y.
Filed April 13, 1921. Serial No. 146,132. PUBLISHED MAY 24, 1921.

146,844. SEWING-THREADS. Max Pollack & Co., Inc., New York, N. Y.
Filed April 13, 1921. Serial No. 146,133. PUBLISHED MAY 24, 1921.

146,845. SEWING-THREADS. Max Pollack & Co., Inc., New York, N. Y.
Filed April 13, 1921. Serial No. 146,135. PUBLISHED MAY 24, 1921.

146,846. WOOLEN OUTSIDE SHIRTS, COATS, VESTS, AND PANTS. The Pontiac Manufacturing Company, Auburn, Me.
Filed January 8, 1921. Serial No. 141,991. PUBLISHED MAY 24, 1921.

146,847. VITREOUS AND PORCELAIN ENAMELS. The Porcelain Enamel and Manufacturing Company of Baltimore, Baltimore, Md.
Filed November 17, 1920. Serial No. 139,751. PUBLISHED MAY 24, 1921.

146,848. PREPARATION PROMOTING THE GROWTH OF THE HAIR. Samuel Pozmantier, New York, N. Y.
Filed November 4, 1920. Serial No. 139,170. PUBLISHED MAY 24, 1921.

146,849. SILKS IN THE PIECE. Jansen & Pretzfeld, Inc., New York, N. Y.
Filed November 18, 1920. Serial No. 139,802. PUBLISHED MAY 24, 1921.

146,850. SALVE AND OINTMENT PREPARATIONS. Clide Randall, Bartlett, Kans.
Filed November 26, 1920. Serial No. 140,210. PUBLISHED MAY 24, 1921.

146,851. FLOOR-VARNISH. Remien & Kuhnert Co., Chicago, Ill.
Filed October 5, 1920. Serial No. 137,962. PUBLISHED MAY 31, 1921.

146,852. ICE-MAKING AND REFRIGERATING MACHINERY. Remington Machine Company, Wilmington, Del.
Filed October 15, 1920. Serial No. 138,342. PUBLISHED APRIL 5, 1921.

146,853. WHEAT-FLOUR. Richland Milling Company, Belleville, Ill.
Filed October 16, 1920. Serial No. 138,406. PUBLISHED MAY 24, 1921.

146,854. VEGETABLE OILS AND A COMBINATION OF VEGETABLE OILS AND ANIMAL FATS FOR FOOD PURPOSES. The Rogers Company, Tacoma, Wash.
Filed September 18, 1920. Serial No. 137,333. PUBLISHED JUNE 14, 1921.

146,855. TEA AND COFFEE. Roundy, Peckham & Dexter Co., Milwaukee, Wis.
Filed November 22, 1920. Serial No. 139,990. PUBLISHED MAY 31, 1921.

146,856. HALTERS, SURCINGLES, GIRTHS, WEB-HARNESS; AUTO, BAG, SCHOOL, LOWERING, AND BUNDLE STRAPS. The Russell Manufacturing Company, Middletown, Conn.
Filed July 16, 1920. Serial No. 135,069. PUBLISHED JUNE 14, 1921.

146,857. METAL FIRE DOORS AND SHUTTERS. The F. L. Saino Manufacturing Co., Inc., Memphis, Tenn.
Filed March 30, 1921. Serial No. 145,479. PUBLISHED MAY 24, 1921.

146,858. PILE FABRICS IN THE PIECE. The Salt's Textile Manufacturing Company, Bridgeport, Conn., and New York, N. Y.
Filed February 16, 1921. Serial No. 143,661. PUBLISHED MAY 31, 1921.

146,859. NAIL-BRUSHES. Samstag & Hilder Bros., New York, N. Y.
Filed October 15, 1920. Serial No. 138,345. PUBLISHED APRIL 5, 1921.

146,860. MUSICAL STRINGED INSTRUMENTS PLAYED BY A BOW. The Sangtoy Company, Grand Rapids, Mich.
Filed October 13, 1920. Serial No. 138,267. PUBLISHED MAY 31, 1921.

146,861. ROOT-BEER. Schibi Spring Brewing Co., St. Charles, Mo.
Filed October 4, 1920. Serial No. 137,896. PUBLISHED MAY 31, 1921.

146,862. NON-ALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS. Benjamin Schriro, New York, N. Y.
Filed June 4, 1919. Serial No. 119,215. PUBLISHED MAY 31, 1921.

146,863. A LIQUID EXTERNAL PREPARATION FOR PNEUMONIA, INFLUENZA, COLDS, THROAT TROUBLE, RHEUMATISM, NEURALGIA, SPRAINS. Mr. & Mrs. Lewis A. Shindley, Grand Rapids, Mich.
Filed November 6, 1920. Serial No. 139,310. PUBLISHED MAY 24, 1921.

146,864. COLD-CREAMS, VANISHING CREAMS, TOILET WATERS, HAIR-DRESSINGS, GENERAL AND MEDICINAL TONICS. Emil D. Schneider, Memphis, Tenn.
Filed November 1, 1920. Serial No. 139,055. PUBLISHED MAY 24, 1921.

146,865. CERTAIN ARTICLES OF CLOTHING. J. Schoeneman, Incorporated, Baltimore, Md.
Filed December 1, 1920. Serial No. 140,509. PUBLISHED MAY 24, 1921.

146,866. CANNED FRUITS AND CANNED VEGETABLES. Max Schuckl, San Francisco, Calif.
Filed January 12, 1921. Serial No. 142,168. PUBLISHED MAY 24, 1921.

146,867. CHOCOLATES. The Shoot Chocolate Company, Cleveland, Ohio.
Filed August 9, 1920. Serial No. 135,948. PUBLISHED MAY 31, 1921.

146,868. FIELD-SEEDS. Daniel D. Simmons, Minot, N. D.
Filed April 4, 1921. Serial No. 145,724. PUBLISHED MAY 24, 1921.

146,869. A TONIC USED IN THE TREATMENT OF THE HAIR AND SCALP. Lennie Simmons, Dallas, Tex.
Filed November 22, 1920. Serial No. 139,991. PUBLISHED MAY 24, 1921.

146,870. CERTAIN ARTICLES OF CLOTHING. Franklin Simon & Co. Inc., New York, N. Y.
Filed April 26, 1920. Serial No. 131,633. PUBLISHED MAY 24, 1921.

146,871. PETROLEUM PRODUCTS USED AS A FUEL FOR AUTOMOBILES, GAS MOTORS AND ENGINES. Sinclair Refining Company, Chicago, Ill.
Filed November 6, 1920. Serial No. 139,321. PUBLISHED MAY 31, 1921.

146,872. LUBRICATING-OILS. Sinclair Refining Company, Chicago, Ill.
Filed December 13, 1920. Serial No. 141,030. PUBLISHED MAY 31, 1921.

146,873. LUBRICATING OILS AND GREASES. Sinclair Refining Company, Chicago, Ill.
Filed December 13, 1920. Serial No. 141,032. PUBLISHED MAY 31, 1921.

146,874. LUBRICATING-OIL. Sinclair Refining Company, Chicago, Ill.
Filed December 13, 1920. Serial No. 141,033. PUBLISHED MAY 31, 1921.

146,875. KEROSENE. Sinclair Refining Company, Chicago, Ill.
Filed December 13, 1920. Serial No. 141,034. PUBLISHED MAY 31, 1921.

146,876. SATIN AND SATIN DE CHINE IN THE PIECE. William Skinner & Sons, New York, N. Y., and Holyoke, Mass.
Filed February 4, 1921. Serial No. 143,189. PUBLISHED MAY 24, 1921.

146,877. CERTAIN NAMED SUBSTANCES USED AS A CEMENT IN PIPE-JOINTS AND FOR STOPPING LEAKS. Smooth-On Manufacturing Company, Jersey City, N. J.
Filed June 22, 1920. Serial No. 134,041. PUBLISHED MAY 31, 1921.

146,878. PREPARED SHEET-ROOFING. South Bend Asphalt Roofing Co., South Bend, Ind.
Filed March 20, 1920. Serial No. 129,989. PUBLISHED MAY 24, 1921.

146,879. SUGAR. South Porto Rico Sugar Company, New York, N. Y.
Filed May 8, 1920. Serial No. 132,206. PUBLISHED MAY 31, 1921.

146,880. SULFURIC ACID. Southern Agricultural Chemical Corporation, Richmond, Va.
Filed December 3, 1920. Serial No. 140,576. PUBLISHED MAY 24, 1921.

146,881. A PREPARATION INDICATED IN ALL FORMS OF INFLAMMATION AND IRRITATION OF THE EYES. Perry Dan Spaulding, Boston, Mass.
Filed November 12, 1920. Serial No. 139,596. PUBLISHED MAY 24, 1921.

146,882. CANDY. Spoehr's, Chicago, Ill.
Filed January 11, 1921. Serial No. 142,109. PUBLISHED MAY 24, 1921.

146,883. CANDY. Spoehr's, Chicago, Ill.
Filed January 11, 1921. Serial No. 142,112. PUBLISHED MAY 24, 1921.

146,884. CANDY. SPOEHR'S, Chicago, Ill.
Filed January 11, 1921. Serial No. 142,113. PUBLISHED MAY 24, 1921.

146,885. JUTE AND COTTON BATS. THE STEARNS & FOSTER COMPANY, Lockland, Ohio.
Filed March 2, 1921. Serial No. 144,255. PUBLISHED MAY 31, 1921.

146,886. PAPER BOXES, RAZOR-CASES, SHEAR-CASES, AND CUTLERY-DISPLAY BOXES. GEORGE V. STEFFENS PAPER BOX CO., St. Louis, Mo.
Filed June 24, 1920. Serial No. 134,150. PUBLISHED MAY 31, 1921.

146,887. BOOTS AND SHOES OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER AND FABRIC. STERLING SHOES CORPORATION, Buffalo, N. Y.
Filed February 27, 1920. Serial No. 128,983. PUBLISHED MAY 24, 1921.

146,888. ELECTRIC BATTERIES. STUART PRODUCTS CORPORATION, Chicago, Ill.
Filed January 28, 1920. Serial No. 127,703. PUBLISHED MAY 31, 1921.

146,889. CLOTHES-WASHING MACHINES. SURF MANUFACTURING CO., Milwaukee, Wis.
Filed August 20, 1920. Serial No. 136,319. PUBLISHED MAY 10, 1921.

146,890. OLEOMARGARIN. SWIFT AND COMPANY, Chicago, Ill.
Filed November 6, 1920. Serial No. 139,325. PUBLISHED JUNE 7, 1921.

146,891. COTTON PIECE GOODS. HOWARD A. TAPPEN, Woodbridge, N. J.
Filed February 15, 1921. Serial No. 143,624. PUBLISHED MAY 31, 1921.

146,892. BLOWPIPES. TORCHWELD EQUIPMENT COMPANY, Chicago, Ill.
Filed February 7, 1921. Serial No. 143,302. PUBLISHED MAY 24, 1921.

146,893. BROOMS. TRUBY BROOM MFG. CO., Houston, Tex.
Filed September 27, 1920. Serial No. 137,684. PUBLISHED APRIL 12, 1921.

146,894. CIGARETTE-PAPERS AND MOUTHPIECES FOR CIGARETTES AND CIGARS NOT MADE OF PRECIOUS METAL. TURMAC TURKISH MACEDONIAN TOBACCO COMPANY, Arnhem, Netherlands.
Filed August 11, 1920. Serial No. 136,009. PUBLISHED APRIL 26, 1921.

146,895. CIGARETTE-PAPERS. "TURMAC" TURKISH MACEDONIAN TOBACCO COMPANY, Arnhem, Netherlands.
Filed November 2, 1920. Serial No. 139,100. PUBLISHED JUNE 14, 1921.

146,896. CREAM TARTAR, BAKING-SODA, SULFUR, AND EPSOM SALTS. THE TWITCHELL-CHAMPLIN COMPANY, Portland, Me., and Boston, Mass.
Filed January 3, 1920. Serial No. 141,815. PUBLISHED MAY 24, 1921.

146,897. A GENERAL TONIC. ANTON W. VAN BYSTERVELD, Grand Rapids, Mich.
Filed May 18, 1920. Serial No. 132,616. PUBLISHED MAY 24, 1921.

146,898. A CERTAIN NAMED CHEMICAL COMPOUND. R. T. VANDERBILT CO., INC., New York, N. Y.
Filed December 2, 1920. Serial No. 140,553. PUBLISHED MAY 24, 1921.

146,899. A LAXATIVE AND TONIC PREPARATION. VINO MEDICAL COMPANY, INC., New York, N. Y.
Filed November 13, 1920. Serial No. 139,640. PUBLISHED MAY 24, 1921.

146,900. A LIQUID PREPARATION USED AS A MILD LAXATIVE AND AS A STOMACH TONIC. VINO MEDICAL COMPANY, INC., New York, N. Y.
Filed November 13, 1920. Serial No. 139,641. PUBLISHED MAY 24, 1921.

146,901. CERTAIN NAMED TOILET PREPARATIONS. V. VIVAUDOU, INC., New York, N. Y.
Filed November 26, 1920. Serial No. 140,221. PUBLISHED MAY 24, 1921.

146,902. TOOTH-PASTES. V. VIVAUDOU, INC., New York, N. Y.
Filed November 26, 1920. Serial No. 140,222. PUBLISHED MAY 24, 1921.

146,903. READY-MIXED PAINTS AND PAINT ENAMELS. THE VOLTAX COMPANY, Bridgeport, Conn.
Filed October 2, 1920. Serial No. 137,868. PUBLISHED MAY 31, 1921.

146,904. CIGARETTE-PAPER CUT TO SIZE AND READY FOR USE, PORTABLE CIGARETTE-MAKERS, AND CIGARETTE-TUBES MADE OF PAPER. WALDES & CO., Prague, Bohemia.
Filed July 29, 1919. Serial No. 121,088. PUBLISHED MAY 24, 1921.

146,905. CIGARETTE-PAPER CUT TO SIZE AND READY FOR USE, PORTABLE CIGARETTE-MAKERS, AND CIGARETTE-TUBES. WALDES & CO., Prague, Bohemia.
Filed August 4, 1919. Serial No. 121,270. PUBLISHED MAY 17, 1921.

146,906. MALT EXTRACT. THE WANDER COMPANY, Chicago, Ill.
Filed December 10, 1920. Serial No. 140,905. PUBLISHED MAY 31, 1921.

146,907. DRIED FRUITS. WASHINGTON GROWERS PACKING CORPORATION, Vancouver, Wash.
Filed February 26, 1921. Serial No. 144,117. PUBLISHED JUNE 7, 1921.

146,908. A BETWEEN-MEAL CAKE FOR CHILDREN. EDWIN D. WATKINS, Memphis, Tenn.
Filed February 17, 1920. Serial No. 128,537. PUBLISHED MAY 24, 1921.

146,909. WOMEN'S WAISTS, DRESSES, AND WOMEN'S SILK UNDERWEAR. WECHSLER BARBER SILK CO. INC., New York, N. Y.
Filed January 10, 1921. Serial No. 142,052. PUBLISHED MAY 24, 1921.

146,910. PLATFORM-TRUCKS. WEST BEND EQUIPMENT CO., West Bend, Wis.
Filed June 24, 1920. Serial No. 134,167. PUBLISHED MAY 24, 1921.

146,911. CERTAIN ARTICLES OF CLOTHING. WHEN CLOTHING COMPANY, Indianapolis, Ind.
Filed November 5, 1920. Serial No. 139,238. PUBLISHED MAY 24, 1921.

146,912. LUNCHEON OUTFIT CONSISTING OF TABLE AND OUTER CASE, CHAIRS, INNER CASE CONTAINING METAL FOOD-CONTAINER, PLATES, KNIVES, FORKS, AND SPOONS. WILDER MFG. CO. INC., Brooklyn, N. Y.
Filed January 5, 1921. Serial No. 141,890. PUBLISHED MAY 24, 1921.

146,913. CERTAIN NAMED TOILET PREPARATIONS. THE J. B. WILLIAMS COMPANY, Glastonbury, Conn.
Filed July 6, 1920. Serial No. 134,617. PUBLISHED MAY 24, 1921.

146,914. A VERMIFUGE. WRIGHT'S INDIAN VEGETABLE PILL COMPANY, New York, N. Y.
Filed December 6, 1920. Serial No. 140,698. PUBLISHED MAY 24, 1921.

146,915. A VERMIFUGE. WRIGHT'S INDIAN VEGETABLE PILL COMPANY, New York, N. Y.
Filed December 6, 1920. Serial No. 140,699. PUBLISHED MAY 24, 1921.

146,916. LEATHER GRIPS FOR GOLF-STICKS, TENNIS-RACKET HANDLES, AND SQUASH-RACKET HANDLES. WRIGHT & WRIGHT INC., Boston, Mass.
Filed October 4, 1920. Serial No. 137,899. PUBLISHED MAY 31, 1921.

146,917. SPADES, SHOVELS, HOES OF ALL DESCRIPTIONS, WEDGES, AND SHIP-SCRAPERS. JOHN YATES & CO. LTD., Birmingham, England.
Filed June 30, 1920. Serial No. 134,450. PUBLISHED MAY 24, 1921.

146,918. MALT EXTRACTS. YE OLDEN TIMES CO., New York, N. Y.
Filed October 8, 1920. Serial No. 138,116. PUBLISHED MAY 31, 1921.

146,919. WORK-SHIRTS, DRESS-SHIRTS, NEGLIGÉE SHIRTS. SAMUEL ZALIS, Baltimore, Md.
Filed November 17, 1920. Serial No. 139,779. PUBLISHED MAY 24, 1921.

146,920. SALTED PISTACHIO-NUTS. S. F. ZALOOM & CO., New York, N. Y.
Filed October 22, 1920. Serial No. 138,699. PUBLISHED JUNE 14, 1921.

146,921. TEA. SAMUEL ZECHNOWITZ, New York, N. Y.
Filed August 24, 1920. Serial No. 136,455. PUBLISHED MAY 24, 1921.

146,922. AUTOMOBILE, PIANO, AND FURNITURE POLISH. H. M. ZEIGLER & SON, Battle Creek, Mich.
Filed November 8, 1920. Serial No. 139,385. PUBLISHED MAY 24, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

SEPTEMBER 20, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

146,923. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN TRIPOLI COMPANY, Seneca, Mo. Filed June 25, 1921. Serial No. 149,620.

American Tripoli Company

Particular description of goods.—Tripoli Flour Used as a Polishing Material.
Claims use since 1900.

146,924. (CLASS 38. PRINTS AND PUBLICATIONS.) EDWARD LYMAN BILL, INC., New York, N. Y. Filed Mar. 29, 1921. Serial No. 145,389.

TIRES
THE TRADE PAPER OF THE TIRE INDUSTRY

Particular description of goods.—Journal Published Monthly.
Claims use since October, 1919.

146,925. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DELISCO CORPORATION LTD., Boston, Mass. Filed Jan. 25, 1921. Serial No. 142,751.



Particular description of goods.—Coffee Substitute.
Claims use since Aug. 21, 1919.

146,926. (CLASS 32. FURNITURE AND UPHOLSTERY.) THE FOLDING PARTITION COMPANY, New York, N. Y., assignors to The J. G. Wilson Corporation, a Corporation of Virginia. Filed Oct. 5, 1916. Serial No. 98,433.

SECTIONFOLD

Particular description of goods.—Partitions and Doors, More Particularly Sliding and Hinged Partitions for Schools and other Buildings.
Claims use since December, 1913.

146,927. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE B. F. GOODRICH COMPANY, New York, N. Y. Filed Jan. 31, 1921. Serial No. 142,972.

BEST IN ANY CASE

Particular description of goods.—Inner Tubes Made of Rubber.
Claims use since 1914.

146,928. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE GREEN AND GREEN COMPANY, Dayton, Ohio. Filed May 2, 1921. Serial No. 147,105.

DAYTON

Particular description of goods.—Crackers.
Claims use since November, 1896.

146,929. (CLASS 35. BELTING, HOSE, MACHINERY-PACKING, AND NON-METALLIC TIRES.) LINCOLN TIRE & RUBBER CO., Cleveland, Cincinnati, Dayton, &c., Ohio. Filed Apr. 15, 1920. Serial No. 131,178.

LINCOLN

Particular description of goods.—Rubber Vehicle-Tires, Caslugs, and Tubes.
Claims use since Mar. 1, 1920.

146,930. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NON-METALLIC TIRES.) THE LONGWEAR RUBBER COMPANY, Elyria, Ohio. Filed Feb. 3, 1919. Serial No. 115,595.

LONG WEAR

Particular description of goods.—Rubber Tires and Tubes.
Claims use since Dec. 1, 1917.

146,931. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) MARSHALL CANNING CO., Marshalltown, Iowa. Filed Oct. 5, 1920. Serial No. 137,949.

Kreamy Korn Kernels

Particular description of goods.—A Cereal Breakfast Food.
Claims use since February, 1918.

146,932. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PACKAGE CONFECTIONERY COMPANY, Boston, Mass. Filed July 7, 1920. Serial No. 134,661.

BOSTON

Particular description of goods.—Candy.
Claims use since early in June, 1910.

146,933. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed Nov. 9, 1920. Serial No. 139,421.

Pillsbury's

PancakeFlour

Particular description of goods.—Pancake-Flour.
Claims use since on or about Mar. 1, 1918.

146,934. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) STAMPED SPECIALTIES COMPANY, (now by change of name John R. Lankenau Company,) Boston, Mass. Filed May 25, 1920. Serial No. 132,945.

DRYWELL

Particular description of goods.—Towels of Textile Materials.
Claims use since Apr. 29, 1920.

146,935. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STRAWBERRY GROWERS SELLING CO., New Orleans, La. Filed May 4, 1921. Serial No. 147,212.

JOHN

Particular description of goods.—Fresh and Preserved Strawberries.
Claims use since on or about Mar. 2, 1915.

146,936. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) STRAWBERRY GROWERS SELLING CO., New Orleans, La. Filed May 4, 1921. Serial No. 147,213.

JANET

Particular description of goods.—Fresh and Preserved Strawberries.
Claims use since Nov. 2, 1915.

146,937. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) WARE SHOALS MFG. CO., Ware Shoals, S. C. Filed May 20, 1921. Serial No. 148,007.

WARE SHOALS

Particular description of goods.—Cotton Piece Goods.
Claims use since June, 1906.

146,938. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS, NOT INCLUDING ELECTRICAL APPARATUS.) WHEELING CORRUGATING COMPANY, Wheeling, W. Va. Filed Apr. 29, 1921. Serial No. 146,998.

WHEELING

Particular description of goods.—Stovepipe and Stove-Dampers.
Claims use since about July 1, 1900.

146,939. (CLASS 12. CONSTRUCTION MATERIALS.) WHEELING CORRUGATING COMPANY, Manchester, Wheeling, W. Va. Filed Apr. 29, 1921. Serial No. 146,999.

WHEELING

Particular description of goods.—Metal Ceilings, Metal Shingles, and Expanded-Metal Lath.
Claims use since about Jan. 1, 1900, on metal ceilings; since about Mar. 1, 1913, on metal shingles, and since about July 1, 1916, on expanded-metal lath.

TRADE-MARK REGISTRATIONS RENEWED.

18,066. SALT. NASH, WHITON & CO., New York, N. Y.; Worcester Salt Co., a Corporation of New York, assignee.
Registered June 24, 1890. Renewed June 24, 1920.

18,159. LUBRICATING-OILS. SWAN & FINCH, New York, N. Y.; Swan & Finch Co., successor.
Registered July 8, 1890. Renewed July 8, 1920.

18,914. A MEDICAL PREPARATION OF SANDAL-WOOD AND COPAIBA. EVANS LESCHER & WEBB, London, England; Evans Sons, Lescher & Webb Limited, assignee.
Registered February 3, 1891. Renewed February 3, 1921.

19,038. A HEADACHE REMEDY. WILLIAM H. SWEETING and SHERMAN C. SWEETING, Savannah, N. Y.; The Flag Salt Remedy Co., assignee.
Registered February 17, 1891. Renewed February 17, 1921.

19,422. EFFERVESCENT CARLSBAD POWDERS. S. KUTNOW & Co., London, England; S. Kutnow & Co., Limited, a Corporation of Great Britain and Ireland, assignee.
Registered May 5, 1891. Renewed May 5, 1921.

19,660. A PREPARATION FOR LEATHER-DRESSING. MICHAEL T. MAGUIRE, Philadelphia, Pa.; M. B. Beyer, assignee.
Registered June 2, 1891. Renewed June 2, 1921.

19,689. CORN-FLOUR. THE NATIONAL STARCH MANUFACTURING COMPANY, Covington, Ky., and New York, N. Y.; Corn Products Refining Company, assignee.
Registered June 9, 1891. Renewed June 9, 1921.

19,750. TOOTH-PASTE. WILLIAM HENRY HALL, New York, N. Y.; Hall & Ruckel, a Corporation of New York, assignee.
Registered June 23, 1891. Renewed June 23, 1921.

19,802. SWEET CHOCOLATE. HENRY L. PIERCE, Boston, Mass.; Walter Baker & Company, Limited, assignee.
Registered June 30, 1891. Renewed June 30, 1921.

19,862. MACHINERY AND MANUFACTURE OF IRON AND STEEL. BROOKES & COOPER, Sheffield, England: John William Cooper, assignee.
Registered July 7, 1891. Renewed July 7, 1921.

20,010. CARBON-PAPER. ADELBERT P. LITTLE, Rochester, N. Y.: A. P. Little, Inc., successor.
Registered August 11, 1891. Renewed August 11, 1921.

20,069. MEN'S AND CHILDREN'S HATS AND CAPS. D. E. LOEWE & Co., Danbury, Conn.
Registered August 25, 1891. Renewed August 25, 1921.

20,330. HOSIERY. FREDK. VIETOR & ACHELIS, New York, N. Y.; Oscar Schmied, assignee.
Registered November 3, 1891. Renewed November 3, 1921.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Second Circuit.

KNAPP *v.* WILL & BAUMER CO.

Decided March 9, 1921.

[273 Fed. Rep., 380.]

1. PATENTS—PATENTABLE DESIGN MUST DISCLOSE NOVELTY AND INVENTION.

Though the design patent law was intended to encourage the decorative arts, and deals with the appearance of the thing designed rather than with its structure, uses, or functions, in a design patent, as in a mechanical patent, the subject-matter must be novel and must have called for an exercise of invention.

2. SAME—SQUARE INSTEAD OF ROUND SHAPE FOR CANDLE DOES NOT DISCLOSE NOVELTY OF DESIGN.

The right to make any article round or square or in any other standard form or shape is inherently open to all, and novelty cannot be predicated of a design for a square candle instead of the ordinary round one.

3. SAME—INVENTION IN DESIGN REQUIRES AS MUCH ORIGINALITY AS IN UTILITY PATENTS.

Design patents stand on as high a plane as utility patents and require as high a degree of exercise of the inventive or original faculty, and making a candle square instead of round does not involve the exercise of such faculty.

4. SAME—BURDEN IS ON PERSON ATTACKING PATENT TO SHOW CONCLUSIONS OF PATENT OFFICE WERE WRONG.

The grant of the patent by the Patent Office makes a *prima facie* case for the successful applicant, and one who attacks the patent has the burden of showing that the Patent Office reached a wrong conclusion concerning it.

5. SAME—NO. 44,480 FOR DESIGN FOR CANDLES, HELD INVALID FOR WANT OF DESIGN.

The Knapp patent, No. 44,480, for a design for a candle, which consisted in taking the ordinary coach-candle, making it square and giving it a fluted tapering base, both of which were known to the art before, does not show invention because of the bell-shaped top, which was similar to the top of the coach-candle.

6. SAME—NEW COMBINATION OF OLD ELEMENTS PATENTABLE DESIGN ONLY IF IT DISCLOSES INVENTION.

Though design invention may reside in the new combination of old elements, a new combination of such elements is only patentable if it is beyond the capacity of the ordinary routine designer.

APPEAL from the District Court of the United States for the Northern District of New York.

Suit by Edward J. Knapp against the Will & Baumer Company for infringement of a design patent. From an interlocutory decree for complainant (253 Fed., 191) defendant appeals. Reversed, and bill dismissed.

Mr. Howard P. Denison and *Mr. Eugene A. Thompson* for appellant.

Mr. Wordsworth B. Matterson, *Mr. Frank T. Miller*, and *Mr. William G. Henderson* for appellee.

Before WARD, ROGERS, and MANTON, Circuit Judges.

ROGERS, *Cir. J.:*

This is a suit in equity arising under the patent laws of the United States. The plaintiff is the owner of Letters Patent No. 44,480, issued to him by the United States Patent Office on August 13, 1913, and is a design patent for an improvement in candles.

The patent has never been assigned, and the plaintiff is now and always has been the sole owner of the patent. He has caused large numbers of candles embodying the patented design to be made and sold under his license by the Edward J. Knapp Candle Company, a corporation existing under the laws of the State of New York, with its principal place of business at Syracuse in said State. The plaintiff is a large stockholder in the company, as well as its president and manager, and alleges that he derives large profits from the manufacture and sale of the patented candles. The license is personal, and not assignable, and not in writing.

In his application for the patent the plaintiff states that the following is a specification, reference being had to the accompanying drawing, forming a part thereof:

The figure is a perspective view of a candle, showing my new design. The design as illustrated in the drawing is a pillar or column substantially square in cross-section, mounted upon a substantially cylindrical longitudinally fluted pedestal and surmounted by a bell-shaped cap, with its base lines set back from the square edges of the pillar top.

I claim: The ornamental design for a candle, as shown and described.

The following is a facsimile of the drawing filed with the application:



The court below entered a decree holding that the patent was valid and infringed by the defendant. (253 Fed., 191.) The case was heard again in that

court on new and additional evidence, for the introduction of which the prior decree was opened. But at the second hearing the court adhered to the former decision. "I regard this," said the district judge, "as a close case, but on consideration of the evidence heretofore taken and the new and additional evidence I am constrained to adhere to the decision made."

The application for this patent was filed February 3, 1911, and on March 11, 1911, was rejected, by the Examiner in the Patent Office, on the state of the art cited. The Examiner declared: "There is held to be nothing patentably novel set up in this application." On April 19, 1911, it was again rejected by the Examiner on the ground of want of any patentable novelty. On October 10, 1911, another application was filed; the original having been amended. On November 23, 1911, the applicant was informed that the application was again rejected, and was informed that—

It must be again held that applicant's design fails to present anything patentably novel from an ornamental standpoint over the reference of record. * * * The claim is accordingly again and finally rejected on the state of the art cited.

The case was then appealed to the Board of Examiners-in-Chief. On July 10, 1913, the Board sustained the application and reversed the Examiner. They said:

There appears to us to be a certain unity in design between a rectangular form of a candle and that of the tip, which possesses some degree of novelty and invention, which is sufficient to support a design patent, and we therefore reverse the decision of the Examiner.

On August 12, 1913, the patent was accordingly issued.

(1) The design law was intended to encourage the decorative arts. It therefore deals with the appearance of the thing designed, rather than with its structure, uses, or functions. But in a design patent, as in a mechanical patent, the subject-matter must be novel, and must have called for an exercise of the inventive faculties. If either of these essentials is absent, the patent cannot be sustained.

(2, 3) In order that there may be novelty, the thing must not have been known to any one before. Mere novelty of form is insufficient. (*O'Reilly* v. *Morse*, 15 How., 62; 14 L. Ed., 601.) The patent in suit is a square candle. But any one had as much right to make a candle square as to make it round. There are some standard forms and shapes that are known to every one and inherently open to any one to use. The right to make any article round or square is open to all. Novelty cannot be predicated of either. But it is equally plain that to make candles square, instead of round, does not involve any exercise of the inventive faculties, and invention is required as much in design patents as in other kinds of patents. It has been held that design patents stand on as high a plane as utility patents and require as high a degree of exercise of the inventive or original faculty. (*Perry* v. *Hoskins*, (C. C.,) 111 Fed., 1002; *Myers* v. *Sternheim*, 97 Fed., 625; 38 C. C. A., 345; *Western Electric Mfg. Co.* v. *Odell*, (D. C.,) 18 Fed., 321.)

But the patent appears to have been granted upon the theory that there is "some degree of novelty and invention" in the combination of the bell-shaped tip with the square form of the candle; that is, in the setting back of the base of the bell-shaped cap from the square edges of the square column having flat sides. That was certainly the theory upon which the validity of the patent was sustained in the court below and the theory upon which the patent was granted in the Patent Office. In the court below the district judge said:

While, in view of the prior art, it may be doubted whether there is patentable invention in this combination containing this feature, I am inclined to hold the patent valid as the presumption is in its favor.

(4) The grant of the patent by the Patent Office makes out a *prima facie* case for the successful applicant, and one who attacks it has the burden of showing that the Patent Office reached a wrong conclusion concerning it. And in our opinion in this case the burden of proof has been sustained by the defendant.

(5) It must be conceded that, if there is any possibility of inventive genius being present in this design patent, it can only be found in the peculiar form of the tip. What Knapp has done was to place a small coach-candle tip in the center of a square column. To do this did not show patentable novelty or involve inventive genius. The patent in suit was, as we have seen, granted in August, 1913. But in 1906 there was published *Lamborn's American Soaps, Candles and Glycerine*. That work, on page 526, contains the following statement:

Candles are molded in a great variety of shapes; the most common shape being that of a plain cylinder of varying diameter and length. A great variety of ornamental forms for religious and decorative purposes are molded in numerous prismatic cross-sections, as squares, triangular, octagonal, etc. They may also be molded longitudinally or spirally fluted.

And on page 530 there is the following statement:

Candles may be made with tapering butts, to enable them to fit any holder either by use of the tapering machine shown in Fig. 201, or by the use of additional molds inserted in the fluted or regular candle mold. A type of candle of this description is shown in Fig. 197. The first self-fitting end candle is attributed to Field, who in 1861 patented his device for giving candles a conical end or butt by molding.

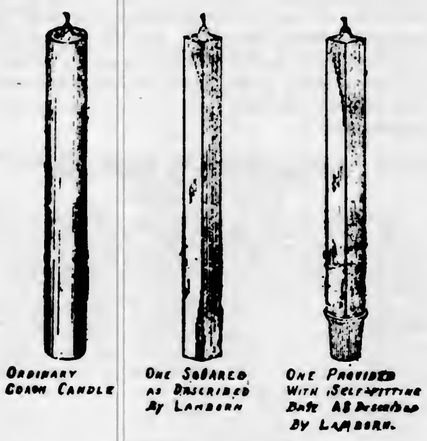
Knapp's own testimony admits that the base of his candle was not new. This is his admission:

Q. Was it also ancient to make candles with this particular kind of a base on them? A. That was made a good many years ago, I believe; back 20 years, that I know of.

The following is an illuminating excerpt from his testimony:

Q. Now take plaintiff's Exhibit 4 and tell us of record, Show his honor exactly how you made that particular candle. In the first place, you started with what sort of a candle? A. A round candle.
Q. Probably such as his honor referred to yesterday? A. I should imagine it was. After the round candle was casted, it was drawn through a hot die, and that die was square; the result is, it made that candle.
Q. It transformed that from a round candle into a square candle? A. Into a square candle.
Q. Where did you learn that sort of thing? A. The die for drawing candles?
Q. Yes. A. Oh, about 25 years ago.
Q. When you were with the Will & Baumer people, or associated with them? A. Yes.
Q. That was a common practice, was it not? A. Oh, yes, that was sort of an ancient practice, I guess. The idea is to smooth the candle.
Q. To form the candle? A. To form the candle.
Q. And were those dies always round, through which the candle was drawn? A. Some of the dies are round.
Q. What other shapes were there? A. We only had round and square dies at my plant. And we have had a die that was corrugated.
Q. Now, we have got the shank of the candle formed. Now, please form the lower end of it, which we term the base. How do you do that? A. The candle is put into warm water, the lower end of it; when the candle gets pliable, it is placed into a die, and it forms that corrugated base.
Q. And where and when did you first learn about that operation, of taking the ends of a candle—warming the end and forming it? A. At the Mosbroder plant, 25 years ago, when I went there.
Q. Was that connected in any way with Will & Baumer? A. It was not. They were not organized in those days.
Q. But later, before you manufactured your square candles, the Will & Baumer Company to your knowledge did form the end of the candles in that same way, did they not? A. Oh, yes.
Q. And that end is the same as formed on the round candles. A. Certainly.
Q. Previous to that time you made round candles with that particular end, did you not? A. Yes.
Q. And that has been an old practice for many years? A. Yes.
Q. What is the purpose of it? In candle language, it is called self-fitting. A. That is the usual term.
Q. And it is usually at its upper part larger diameter than at the other end? A. Certainly.
Q. Sometimes candles are made with that end, and sometimes without? A. Yes.
Q. And to your knowledge thousands have been made that way many years before your application was filed? A. Certainly.
Q. Now, take the other end, Mr. Knapp; when was the upper end on that candle formed? A. The bell shape?
Q. The bell-shaped end; the upper end. A. That round shape was a very old pattern; I should imagine it was.
Q. When did you first see candles with a small bell-shaped end on a larger upper portion of the candle? A. Oh, well, I guess ever since I have been in the candle business. It is originally what they called a coach candle.
Q. That is the candle term a coach candle? A. Yes.

Knapp's own testimony as to the designing of his patented candle convinces us that the square candle of his patent involved no inventive thought or practice. He followed precisely the teachings of the art as set forth by Lamborn. What he did was to take a coach-candle of ordinary type as shown by Lamborn and draw it through a square mold, a thoroughly familiar process, and then equip it with a self-fitting base as directed by Lamborn. The effect of these several steps is disclosed in the following cuts:



What Knapp did involved no inventive act. He took an ordinary coach-candle, with its bell-shaped tip, and simply changed the column from a round one into a square one, leaving the bell-shaped tip the same as before. In converting a round column into a square one, he followed precisely the teachings of the art as previously set forth by Lamborn. He did what any ordinary workman would have done—drew a round candle through a square mold in accordance with a common practice. Then he provided it with a self-fitting base in accordance with the teachings of the art since 1861.

(6) It is true that invention may reside in a new combination of old elements. Every new combination of old elements, however, is not patentable. But as this court said in *Steffens* v. *Steiner*, (232 Fed., 862; 147 C. C. A., 56:)

The question in the case at bar is not whether a design patent can be sustained, although each separate element in the design may be old, but it is whether what has been done in assembling the old elements in the new designs rose in these particular cases to the level of invention.

And in *Strause Gas Iron Co.* v. *William M. Crane Co.* (235 Fed., 126; 148 C. C. A., 620) this court again said:

The test for invention is to be considered the same for designs as for mechanical patents; *i. e.*, was the new combination within the range of the ordinary routine designer?

In both of those cases this court held design patents void for want of invention. In what was held in those cases we were simply applying the doctrine which was announced in *Smith* v. *Whitman Saddle Co.* (148 U. S., 675; 13 Sup. Ct., 768; 37 L. Ed., 606,) in which case the Court approved the following statement:

To entitle a party to the benefit of the act, in either case, there must be originality, and the exercise of the inventive faculty. In the one, there must be novelty and utility; in the other, originality and beauty. Mere mechanical skill is insufficient. There must be something akin to genius—an effort of the brain as well as the hand. The adaption of old devices or forms to new purposes, however convenient, useful, or beautiful they may be in their new rôle, is not invention.

We are quite at a loss to find in the patent in suit anything "akin to genius" in what the patentee did. We find nothing beyond the ability of the ordinary routine candle-maker. What was done did not rise to the level of invention.

As the patent in suit is not valid, it is not necessary to inquire whether it has been infringed.

The decree must be reversed, and the bill dismissed. It is so ordered.

U. S. Circuit Court of Appeals—Third Circuit.

BANKERS' SERVICE CORPORATION *v.* LANDIS CHRISTMAS SAVINGS CLUB CO.

Decided May 9, 1921.

[273 Fed. Rep., 722.]

PATENTS—No. 1,202,646, FOR COUPON BANK DEPOSIT BOOK—VOID FOR LACK OF INVENTION.

The Barkley patent, No. 1,202,646, for an improved coupon bank deposit book, is for an improvement which would naturally follow the use of the devices preceding it by experienced persons and discloses no patentable invention.

APPEAL from the District Court of the United States for the Middle District of Pennsylvania; Charles B. Witmer, judge.

Suit in equity by the Bankers' Service Corporation against the Landis Christmas Savings Club

Company. Decree for defendant, (273 Fed., 717,) and complainant appeals. Affirmed.

Mr. John P. Bartlett and *Mr. Henry B. Brownell* for the appellant.

Mr. James A. Watson (*Mr. E. E. Beidleman* and *Mr. J. W. Swartz* of counsel) for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

BUFFINGTON, *Cir. J.:*

In the court below the plaintiff, the owner of Patent No. 1,202,646, issued October 24, 1916, to Merrill B. Barkley, for a coupon bank deposit book, brought a suit against defendant, charging infringement thereof. On final hearing, the court held Barkley's patent invalid and entered a decree dismissing the plaintiff's bill, supporting its view by referring to *Hollister* v. *Benedict Manufacturing Co.*, 113 U. S., 59; 5 Sup. Ct., 724, (28 L. Ed., 901,) where, of an alleged invention of a revenue stamp, Mr. Justice Matthews said:

> It is but the display of the expected skill of the calling, and involves only the exercise of the ordinary faculties of reasoning upon the materials supplied by a special knowledge, and the facility of manipulation which results from its habitual and intelligent practice, and is in no sense the creative work of that inventive faculty which it is the purpose of the Constitution and the patent laws to encourage and reward.

Thereupon this appeal was taken.

Our study of the case satisfied us the court below committed no error, and its decree should be affirmed. Its opinion so adequately discusses the case that we restrict ourselves to a brief reference to some of the things which lead us to the same conclusion.

The patent concerns stationery adapted for use in banks receiving Christmas club deposits. The idea of the Christmas club was not original with the patentee; on the contrary, there were large numbers of such clubs, and stationery suitable for receiving and handling deposits, and evidencing both to the bank and to the depositor the fact and the amount of such deposits, were in common use when Barkley entered the field. The patentee, who was in the bank stationery supply business, with the aid of a cashier of a bank which was using the Landis Christmas club system, set about to observe and improve that system, presumably with a view to his company, the present plaintiff, entering into the business of supplying stationery for Christmas clubs. The result of this observation was that Barkley soon saw certain places where the Landis system could be improved, and which, in a general way, may be described as a reversing of that system.

The Landis system consisted in the bank holding a coupon sheet in its hands and delivering to the depositor a coupon detached from such sheet as credit evidence of his deposit, while the coupon detached from the sheet afforded debit evidence to its bookkeepers of the bank's receipt of the deposit. In Barkley's device, the entire outfit was placed in the hands of the depositor in the shape of a compact book of sheets, one-half of which sheet was a stub, the other a detachable coupon, showing the amount of the deposit. When the club member deposited his stipulated amount in the bank on the fixed pay day, he delivered the detached coupon with his money to the bank; the coupon was stuck on a hook and gave the bank's bookkeeper the data from which the deposit could be entered at convenience. A single impression of a stamp of the bank, part of which impression went on the stub and part on the coupon to be detached and deposited, authenticated to the bank its receipt of the deposit and to the customer the bank's admission of his making the deposit.

That the Barkley reverse device could be more easily and conveniently handled than the Landis may be conceded; but, like the court below, we are of opinion it did not involve invention. On the contrary, it was the to-be-expected result which would naturally follow the study of men familiar with the banking and stationery business, when they set themselves to study and improve the Christmas club system, as all bank employees would do. When such a new system was used by the thousands of keen minds, when better detail and further efficiency of such system would be the customary result of the experience that came from use, we would expect improvements, and the ideas such as Barkley worked out are, in our judgment, the steps that would naturally follow use. To take the cleverness of an improver and award the monopoly of an invention thereto would, to our minds, make of the patent law a hindrance, not a help, in the evolution of progress.

Adverse Decision in Interference.

PATENT No. 1,373,931.

On August 26, 1921, a decision was rendered that Ernst F. W. Alexanderson was not the first inventor of the subject-matter covered by claim 3 of his Patent No. 1,373,931, subject, "Radio-receiving system," and no appeal having been taken within the time allowed such decision has become final.

Patents Nos. 1,391,658 to 1,392,287.

THE OFFICIAL GAZETTE OF THE United States Patent Office.

Vol. 290—No. 4. TUESDAY, SEPTEMBER 27, 1921. Price—$5 per year.

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Printed copies of patents are furnished by the Patent Office at 10 cents each. For the latter, address the Commissioner of Patents, Washington, D. C.

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Issue of September 27, 1921.

Patents	630	No. 1,391,658 to No. 1,392,287, inclusive.
Trade-Marks	128	No. 146,940 to No. 147,067, inclusive.
Reissues	1	No. 15,202.
Total	759	

Notice—Trade-Mark Renewals.

Hereafter applicants for renewal of trade-mark registrations under section 12 of the act of February 20, 1905, as amended, need not transmit to the Patent Office the original certificate of registration heretofore called for by Form 14 on page 43 of the trade-mark statute pamphlet. The letter requesting renewal and transmitting the fee should include a statement of the interest of the applicant in the mark, as well as the number, date, name of registrant, and goods of the original certificate.

T. E. ROBERTSON,
Commissioner.

Nolan Act—Reciprocity of the Laws of Czechoslovakia Recognized.

(ORDER No. 2,695.)

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 21, 1921.

Notice is hereby given that the laws of Czechoslovakia are recognized as affording to citizens of the United States privileges substantially reciprocal to the privileges accorded by the Nolan Act of March 3, 1921, (41 Stat. L., 1313,) and that consequently the privileges specified in said act will be extended to citizens of Czechoslovakia.

THOMAS E. ROBERTSON,
Commissioner.

Interference Notices.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 20, 1921.

The American Perfumer Company, their assigns or legal representatives, take notice:

An interference having been declared by this Office between the applications of Hersey P. Barnes, of 156 Jamestown street, Manayunk, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered May 1, 1906, No. 51,958, to The American Perfumer Company, of 15 Taylor street, Springfield, Mass., and a notice of such declaration sent by registered mail to The American Perfumer Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The American Perfumer Company, their assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 27, 1921.

The All in One Tractor Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Stroud Motor Manufacturing Ass'n., Ltd., of 117 East Houston street, San Antonio, Tex., for registration of a trade-mark and trade-mark registered April 22, 1913, No. 91,271, to The All in One Tractor Company, Waterloo, Iowa, and a notice of such interference sent by registered mail to The All in One Tractor Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless The All in One Tractor Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

DEPARTMENT OF THE INTERIOR,
UNITED STATES PATENT OFFICE,
Washington, D. C., September 27, 1921.

H. J. Nice Company, its assigns or legal representatives, take notice:

An interference having been declared by this Office between the application of Percy Pierce, 445 North Fifth street, Philadelphia, Pa., for registration of a trade-mark and trade-mark registered December 28, 1909, No. 76,231, to H. J. Nice Company, 15 Northeast Fifth street, Minneapolis, Minn., and a notice of such interference sent by registered mail to said H. J. Nice Company at the said address having been returned by the post-office undeliverable, notice is hereby given that unless said H. J. Nice Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

THOMAS E. ROBERTSON,
Commissioner.

Communications to the Patent Office.

Rule 8. A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters.

Condition of Applications Under Examination at Close of Business September 17, 1921.

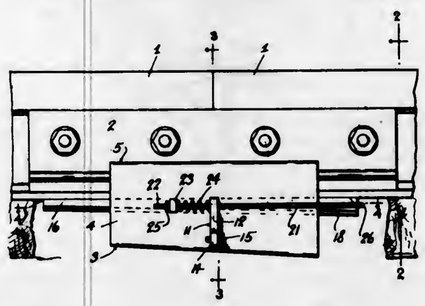
Room No.	Divisions, Examiners, and subjects of inventions. (Oldest new case, Oct. 1; oldest amended, Nov. 26.)	Oldest new application and oldest action by applicant awaiting office action. New.	Amended.	No. of applications awaiting action.
314	1. LOEFFLER, F. S., Closure Operators; Fences; Gates; Harrows and Diggers; Plows; Planting; Scattering Unloaders.	Apr. 2	Apr. 13	758
128	2. BALDWIN, M., Bee Culture; Dairy; Medicines; Pneumatics; Preserving; Presses; Tents, Canopies, Umbrellas, and Canes; Tobacco; Trees, Plants and Flowers.	Dec. 2	Feb. 16	1,658
175	3. RICH, WM. J., Electric Heating and Rheostats; Electrochemistry; Heating; Metal-Founding; Metallurgical Apparatus; Metallurgy; Metal Treatment; Plastic Metal Working.	Dec. 18	Dec. 24	833
234	4. MERRITT, A. D., Conveyers; Conveyers, Fluid-Current; Excavating; Handling—Hand and Hoist-Line Implements: Hoisting; Material or Article Handling; Pushing and Pulling Implements; Railway Mail Delivery; Traversing Hoists.	Oct. 1	Mar. 16	1,672
167	5. MACNAB, J. F., Book-Making; Books, Strips and Leaves; Harvesters; Jewelry; Manifolding; Music; Printed Matter; Tying Cords or Strands.	Nov. 9	Jan. 10	899
318	6. LEWERS, A. M., Bleaching and Dyeing; Chemicals; Explosive, Pyrotechnic and Match Compositions; Fertilisers; Liquid Coating Compositions; Plastic Compositions; Substance Preparation.	Mar. 2	May 26	1,010
312	7. JARBOE, C. G., Games and Toys; Optics; Photography; Velocipedes	Mar. 14	May 2	1,810
131	8. CLIFT, J. W., Beds; Chairs and Seats; Flexible-Sheet Securing Devices; Furniture; Kitchen and Table Articles; Store Furniture; Supports.	May 27	Aug. 1	713
221	9. TRYON, F. M., Air and Gas Pumps; Hydraulic Motors; Injectors and Ejectors; Motors, Fluid; Motors, Fluid-Current; Pumps.	Nov. 3	July 12	980
235	10. MITCHELL, T. H., Land-Vehicles; Land Vehicles, Animal Draft Appliances; Land-Vehicles—Bodies and Tops; Land-Vehicles—Dumping; Land-Vehicles, Wheel Substitutes; Motor Vehicles.	Feb. 11	June 15	1,269
154	11. ARMSTRONG, H. C., Boot and Shoe Making; Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whips and Whip Apparatus.	June 11	June 11	429
222	12. PIERCE, P. P., Machine Elements	Feb. 5	May 28	1,137
329	13. NIXON, G. A., Bolt, Nail, Nut, Rivet, and Screw Making; Chain, Staple, and Horseshoe Making; Driven, Headed, and Screw-Threaded Fastenings; Gear Cutting, Milling, and Planing; Metal Drawing; Metal Forging and Welding; Metal Rolling; Metal Tools and Implements, Making; Metal Working; Needle and Pin Making; Turning.	Nov. 18	June 18	1,635
323	14. BRUMBAUGH, N. J., Compound Tools; Cutting and Punching Sheets and Bars; Farriery; Metal-Bending; Sheet-Metal Ware, Making; Tools; Wire Fabrics and Structure; Wire-Working.	Dec. 2	June 25	843
308	15. REDROW, W. L., Bread, Pastry, and Confection Making; Glass; Laminated Fabrics and Analogous Manufactures; Paper-Making and Fiber Liberation; Plastic Block and Earthenware Apparatus; Plastics.	Oct. 6	Feb. 8	1,662
111	16. BACKUS, C. D., Radiant Energy; Telegraphy; Telephony	Oct. 8	Feb. 7	1,766
307	17. RAFTER, G. S., Coating, Label Pasting and Paper Hanging; Nut and Bolt Locks; Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet Material Associating or Folding; Sheet Feeding or Delivering; Type Setting.	Jan. 27	May 3	936
229	18. PORTER, M. E., Liquid Heaters and Vaporizers; Motors, Expansible Chamber Type; Power Plants; Speed Responsive Devices; Steam and Vacuum Pumps.	Nov. 6	Feb. 5	1,713
236	19. GLASCOCK, E. S., Automatic Temperature and Humidity Regulation; Furnaces; Heating Systems; Stoves and Furnaces; Domestic Cooking Vessels; Thermostats and Humidostats.	Nov. 27	Mar. 19	959
179	20. WRIGHT, H., Artificial Body Members; Miscellaneous Hardware; Closure-Fasteners; Cutlery; Dentistry; Locks and Latches; Safes; Undertaking.	Apr. 6	May 4	1,423
212	21. THURBER, W. L., Brakes and Gins; Carding; Cloth-Finishing; Continuous-Strip Feeding; Cordage; Felt and Fur; Knitting and Netting; Silk; Spinning; Weaving; Winding and Reeling.	Feb. 2	May 27	639
249	22. COLWELL, J. H., Aeronautics; Firearms; Ordnance; Ammunition and Explosive Devices; Ammunition and Explosive Charge Making.	May 16	June 23	543
217	23. GROESBECK, W. D., Acoustics; Coin-Handling; Horology; Recorders; Registers; Sound Recording and Reproducing; Time-Controlling Mechanism.	Dec. 8	May 14	816
144	24. DARBY, J. J., Apparel; Apparel Apparatus; Garment Supporters; Sewing-Machines	Jan. 10	May 4	1,008
315	25. LIGHTFOOT, J. H., Agitating; Butchering; Centrifugal Bowl Separators; Mills; Threshing; Vegetable Cutters and Crushers; Gas Separation.	July 9	July 5	310
105	26. HODGES, J. S., Electricity, Generation; Motive Power; Prime Mover Dynamo Plants	Feb. 4	Apr. 9	802
214	27. ANDERSON, L. S., Abrading; Brushing and Scrubbing; Laundry; Washing Apparatus	Mar. 25	June 1	1,364
225	28. BENSON, A. R., Internal-Combustion Engines	Jan. 15	Apr. 18	1,439
147	29. MORRIS, B., Boring and Drilling; Button Making; Chucks or Sockets; Coopering; Tool Handle Fastenings; Wheelwright-Machines; Wood-Sawing; Wood-Turning; Woodworking; Woodworking-Tools.	Jan. 22	July 1	714
152	30. SULLIVAN, M. R., Illuminating-Burners; Illumination; Liquid and Gaseous Fuel Burners; Type-Writing Machines.	Feb. 7	July 6	1,311
172	31. HOLMES, W. N., Alcohol; Ammonia, Water, and Wood Distillation; Charcoal and Coke; Fuel and Igniting Devices; Gas, Heating and Illuminating; Hides, Skins, and Leather; Hydraulic Cement and Lime; Mineral Oils; Oils, Fats, and Glue; Sugar and Salt.	Oct. 30	Dec. 8	2,058
278	32. BANCROFT, J. F., Gas and Liquid Contact Apparatus; Heat Exchange	Nov. 20	June 6	1,010
70	33. COWLES, W. A., Bridges; Hydraulic and Earth Engineering; Masonry and Concrete Structures; Metallic Building Structures; Roads and Pavements; Roofs.	Mar. 19	Apr. 21	706
304	31. SIMPSON, G. R., Electricity-Transmission to Vehicles; Pneumatic Despatch; Railways; Railway Rolling-Stock; Railway Switches and Signals; Railways, Surface Track; Railway Wheels and Axles; Store Service; Track-Sanders; Vehicle-Fenders.	June 24	July 21	312
57	35. REYNOLDS, E. C., Buckles, Buttons, Clasps, Etc.; Card, Picture, and Sign Exhibiting; Signals and Indicators; Toilet.	June 8	June 25	758
204	36. MORTON, G. L., Automatic Weighers; Driers; Geometrical Instruments; Measuring Instruments; Force Measuring.	Apr. 1	Apr. 6	1,605
107	37. TAYLOR, E. C., Electricity, Circuit Makers and Breakers; Electricity, General Applications	Jan. 22	Feb. 2	2,312
378	38. IDE, G. R., Animal Husbandry; Earth Boring; Fishing, Trapping and Vermin Destroying; Mining, Quarrying, and Ice-Harvesting; Stationery; Stone-Working; Wells.	Apr. 19	Apr. 19	1,133
220	39. COWLES, A. W., Fluid Pressure Regulators; Joint Packings; Multiple Valves; Packed Shaft or Rod Joints; Pipe Joints or Couplings; Rod Joints or Couplings; Valved Pipe Joints or Couplings; Valves; Water Distribution.	Oct. 12	Jan. 10	1,903
273	40. OBERLIN, J. J., Baggage; Bottles and Jars; Check-Controlled Apparatus; Cloth, Leather, and Rubber Receptacles; Deposit and Collection Receptacles; Metallic Receptacles; Package and Article Carriers; Paper Receptacles; Special Receptacles and Packages; Wooden Receptacles.	Jan. 10	Mar. 10	2,173
125	41. BROWN, J. I., Land Vehicles, Wheels and Axles; Resilient Tires and Wheels	Feb. 12	Apr. 7	861
114	42. CUTTING, H. G., Electricity, Conductors; Electrical Conduits and Housings; Electric Signaling; Electric Lamps.	Dec. 7	Nov. 26	2,368
382	43. HOPKINS, F. M., Baths and Closets; Dispensing; Dispensing Beverages; Electricity, Medical and Surgical; Fire-Extinguishers; Sewerage; Surgery; Liquid Separation or Purification.	Dec. 16	Jan. 10	1,568
253	44. SHAFFER, C. H., Air-Guns, Catapults, and Targets; Boats and Buoys; Filling and Closing Portable Receptacles; Marine Propulsion; Railway Draft Appliances; Refrigeration Ships.	Dec. 29	June 13	483
379	45. GILES, A. H., Journal-Boxes, Pulleys, and Shafting; Lubrication; Motors; Spring Devices	Feb. 12	Apr. 14	1,165
322	46. WOLCOTT, C. L., Curtains, Shades and Screens; Educational Appliances; Fire-Escapes; Ladders; Fluid Sprinkling, Spraying, and Diffusing; Paper Files and Binders; Wooden Buildings; Scaffolds.	Feb. 21	Mar. 9	1,078
264	47. BARKER, H., Brakes; Clutches and Power Stop Control; Elevators; Fluid Pressure Brake and Analogous Systems.	Dec. 9	Apr. 6	1,139
163	TRADE-MARKS, DESIGNS, LABELS AND PRINTS: T. L. MEAD, JR.			
	Trade-Marks	Nov. 9	July 23	4,271
	Designs	Dec. 1	Mar. 1	2,057
	Labels and Prints	July 1	Aug. 20	433

Total number of applications awaiting action, excluding Trade-Mark division, 55,683; Trade-Mark division, 6,761.

PATENTS

GRANTED SEPTEMBER 27, 1921.

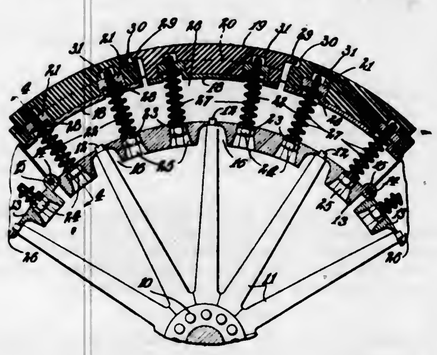
1,391,658. RAIL-CHAIR. DAVIS AMBROSE, Louisville, Ky. Filed Mar. 8, 1921. Serial No. 450,561. 2 Claims. (Cl. 238—191.)



1. A rail chair, comprising two companion sections each including a base, upstanding flanges at the upper edges thereof providing side plates and inwardly directed flanges on the upper edges of the said side plates, removable means connecting the bases of the chair sections for holding the chair in rail receiving position, a wedge member having a rounded lower face between the base of the rails and the base of the chair sections, and spring influenced means between the wedge and the connecting means for the chair sections for securing the wedge on the chair and in frictional engagement with the base of the rails.

1,391,659. [WITHDRAWN.]

1,391,660. RESILIENT WHEEL. JOSEPH ARDO, New hall, W. Va. Filed Sept. 17, 1920. Serial No. 410,974. 5 Claims. (Cl. 152—8.)



2. In a vehicle wheel, a felly, a series of metallic rim sections resiliently mounted on said felly and having their adjacent ends spaced a short distance apart circumferentially of the wheel, separate resilient tread sections fixed on said rim sections, certain ones of said tread sections having their surface portions extended to overlap the ends of adjacent tread sections, the main bodies of said tread sections being spaced circumferentially from one another in correspondence to the spacing of said rim sections.

1,391,661. BOLT FOR LOADED GRAIN-CARS. CHARLIE R. ARMSTRONG, Hawarden, Iowa. Filed July 27, 1920. Serial No. 399,299. 1 Claim. (Cl. 85—3.)

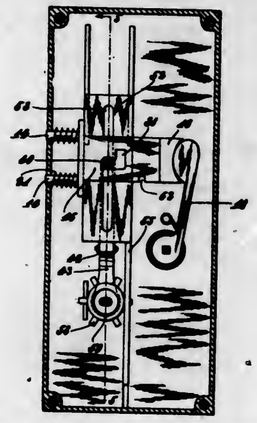


A bolt having its shank provided with a longitudinal slot and a cross head pivotally mounted in said slot and having a pivot pin engaging a slot disposed in intersecting communicating relation with the first-named slot to permit longitudinal movement of the cross head when in a position transverse to the length of the shank, the shank being formed with a shallow longitudinal peripheral groove extending from the said slot to the end remote from the cross head, the latter being also formed with a similar groove extending through one end edge and one side edge, and a flexible leader disposed in said shallow groove in the shank and anchored in the cross head at one extremity of the groove formed in the end edge thereof, the said leader lying in both grooves in the cross head when the latter is in a position in alinement with the shank.

1,391,662. COMBINATION-LOCK. ANDRO AUGUSTIN, East Derby, Conn. Filed Oct. 4, 1917. Serial No. 194,680. 1 Claim. (Cl. 70—18.)

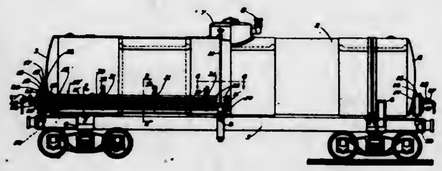
In a lock, the combination with a casing and a keeper therefor, of a lock bar carrying bolt engageable with said keeper, said lock bar being slidable transversely in said casing, a plate slidable longitudinally of said casing en-

gageable with said lock bar, said lock bar having a recess, a sliding plate having a part engageable within said re-



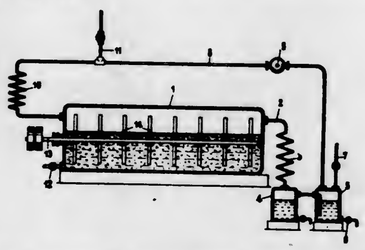
cess, and means for operating said sliding plate, whereby said lock bar may be held in an outward position.

1,391,663. TANK-CAR. HERMAN P. ANDRESEN, Chicago, Ill. Filed Apr. 29, 1920. Serial No. 377,656. 14 Claims. (Cl. 257—238.)



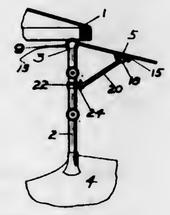
3. In a device of the class described, a steam inlet, a steam outlet, a plurality of heating elements, all free to expand and contract longitudinally and individually, and all of said heating elements having communication with said inlet and outlet, and each of said heating elements being pointed at one end.

1,391,664. PROCESS OF HYDROGENATING CARBON COMPOUNDS UNDER HIGH PRESSURE AND ELEVATED TEMPERATURE. FRIEDRICH BERGIUS, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 18, 1916. Serial No. 92,065. 9 Claims. (Cl. 196—27.)



1. In a process of hydrogenating carbon compounds under high pressure and at elevated temperature bringing together suitable carbon compounds with a hydrogen containing atmosphere under suitable reaction pressure and temperature within a high pressure vessel partly filled with the material to be treated, circulating the gaseous contents of the space above the material under treatment, the quantity of circulated gas being in excess of the consumed reaction gas and subjecting the circulated gas within the circulating conduit to heat exchange so as to control the temperature conditions within the reaction vessel.

1,391,665. AUXILIARY PROTECTOR. FRED W. BILLINGS, Millwood, Wash. Filed Mar. 19, 1921. Serial No. 453,570. 2 Claims. (Cl. 296—95.)

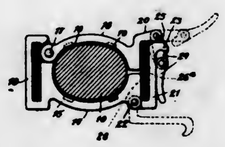


1. The combination with a support, of a pair of frictionally engaged, open, bearing collars, of an adjustable panel, bearing sleeves attached to the panel and pivotally supported on said collars, and means for holding the panel in adjusted position.

1,391,666. CATALYST AND METHOD OF MAKING SAME. CARL BOSCH, OTTO SCHMIDT, and ALWIN MITTASCH, Ludwigshafen-on-the-Rhine, Germany, assignors, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed June 4, 1914. Serial No. 842,956. 6 Claims. (Cl. 23—28.)

3. A method of preparing a catalyst which comprises drying an intimate water-containing mixture of an organic nickel compound and a soluble compound of silicon, then reducing the dried mixture by hydrogen to thereby produce a catalyst composed of finely divided nickel intimately associated with dry precipitated non-colloidal silica.

1,391,667. ANTISKIDDING DEVICE FOR VEHICLE-WHEELS. EDWARD N. BREITUNG, New York, N. Y. Filed June 3, 1921. Serial No. 474,594. 5 Claims. (Cl. 152—14.)

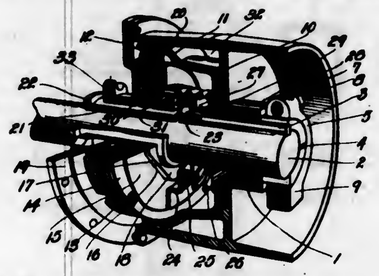


1. A device of the class described comprising hinged arms adapted to embrace a vehicle spoke, means for holding said arms in closed position, an eye carried by said arms and coöperating with the aforementioned locking means for securing a flexible element thereto.

1,391,668. CLUTCH. EVERETT B. CUSHMAN, Topeka, Kans., assignor to The Piersen Manufacturing Company, Topeka, Kans., a Corporation of Kansas. Filed Sept. 20, 1920. Serial No. 411,418. 4 Claims. (Cl. 192—69.)

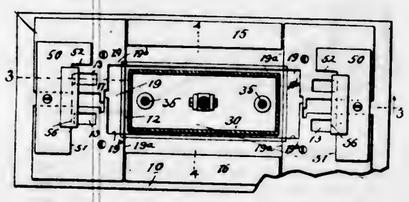
1. In combination, a shaft, a sleeve rigidly mounted on said shaft, a cup-shaped member integral with the sleeve,

a pulley mounted on the sleeve and having an internal tubular member projecting from one end, interleaving laminations carried by the tubular member and the cup-shaped member respectively, an actuator for normally



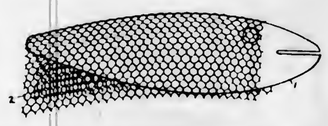
holding the laminations in frictional contact, an expansion spring interposed between the actuator and one end of the cup-shaped member, and a longitudinally movable releaser for shifting the actuator longitudinally to relieve the frictional contact between the laminations.

1,391,669. BOX-MAKING MACHINE. HAROLD A. DENMIRE, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a Corporation of Ohio. Filed Apr. 9, 1920. Serial No. 372,624. 8 Claims. (Cl. 93—51.)



1. In a box making machine, the combination of a bed plate having a rectangular hole therethrough, and four immovable blank supporting flap bending blocks secured upon said bed plate adjacent the four corners of said rectangular hole and in position such that they will engage with and support only the inside end flaps of the described box blank when said blank is in position to be operated upon by the machine, and a vertically reciprocating plunger for forcing the box blanks down into said hole and thereby causing the flaps to be bent into positions substantially as herein described.

1,391,670. PROCESS OF FISH-BAIT MANUFACTURE. HENRY S. DILLS, Garrett, Ind., assignor of one-half to James Heddon's Sons, Incorporated, Dowagiac, Mich., a Corporation of Michigan. Filed Jan. 25, 1918. Serial No. 213,628. 7 Claims. (Cl. 41—29.)



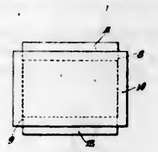
6. The method of representing fish scales on a body which comprises applying flexible thread closely to the body in such a manner that the thread will form the outline for the individual scales, then applying a distinctive coat of selected coloring material to the body over the thread, and then removing the thread.

1,391,671. THERMIONIC VALVE FOR USE IN WIRELESS TELEGRAPHY AND TELEPHONY. HORACE ST. JOHN DE AULA DONISTHORPE, London, England. Filed Mar. 23, 1921. Serial No. 454,925. 8 Claims. (Cl. 250—27.)



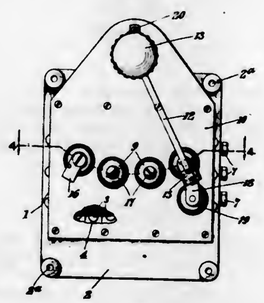
1. In a thermionic valve for use in wireless telegraphy and telephony, the combination of a hollow hemispherical plate electrode with a grid electrode formed as a hollow hemisphere adapted to damp out mechanical vibration and microphonic disturbances and a filament adjacent to said grid, substantially as described.

1,391,672. ELECTRICAL CONDENSER. WILLIAM DUBILIER, New York, N. Y. Filed Aug. 1, 1918. Serial No. 247,740. 5 Claims. (Cl. 250—41.)



4. A high tension stacked condenser comprising a plurality of flat conducting plates, each having an edge portion of substantially greater length than adjacent edge portions, and insulating sheets disposed between the same, the said conducting plates and insulating sheets being so alternately stacked as to project the edge portions of greater length of said plates laterally beyond said insulating sheets whereby exposed terminal portions of said plates are presented providing the shortest mean heat conduction path to the exterior of the condenser.

1,391,673. ANTENNA-SHORTENING DEVICE. WILLIAM DUBILIER, New York, N. Y., assignor, by mesne assignments, to Dubilier Condenser Co., Inc., a Corporation of New York. Filed Mar. 7, 1919, Serial No. 281,181. Renewed Mar. 5, 1921. Serial No. 449,745. 7 Claims. (Cl. 250—41.)



1. An antenna shortening device comprising a casing, a condenser within said casing having a plurality of con-

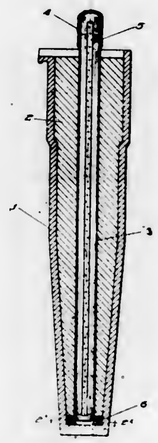
denser sections connected in series, terminal posts carried by said casing, connections leading respectively from different sections of said condenser to said terminal posts, a switch arm movable with regard to said posts, and means whereby said arm may engage only one of said posts with a given setting of the condenser.

1,391,674. SPECTACLE-HOLDER. VINCENT E. DUNCANSON, Lynchburg, Ohio. Filed July 3, 1919. Serial No. 308,378. 6 Claims. (Cl. 206—5.)



3. As a new and improved article of manufacture, a spectacle-holder composed of a single piece of sheet material of general oblong shape, with its longitudinal opposite edge parts bent upwardly and inwardly and extended part of the way across the holder toward each other, leaving a space between the edges throughout their lengths, and a clip cut out from said sheet and extending from said holder on the side opposite to that toward which said edge parts are bent upward.

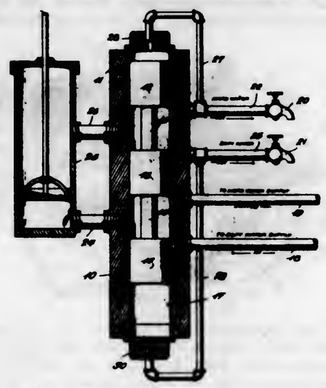
1,391,675. ART OF PRODUCING HOLLOW CASTINGS. ALBERT H. EMERY, Stamford, Conn. Filed May 12, 1920. Serial No. 380,743. 4 Claims. (Cl. 22—212.)



1. The manufacture of hollow castings having initial strains of compression at and near the bore by filling a mold partly full of molten metal and after pouring the metal introducing a hollow core provided with means for cooling the core and thereby cooling the casting principally from its interior.

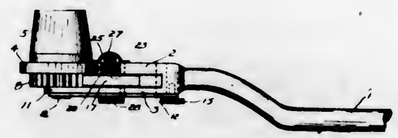
1,391,676. LIQUID-SUPPLY SYSTEM. COURT H. FINLEY, Williamsburg, Iowa. Filed Mar. 7, 1921. Serial No. 450,319. 5 Claims. (Cl. 103—79.)

1. A liquid supply system comprising, in combination, a pump having an intake and a discharge port, independent conduits adapted to be connected to supplies of different kinds of liquids, a separate discharge faucet for each kind of liquid, and means to automatically place the discharge port of the pump into communication with an open faucet



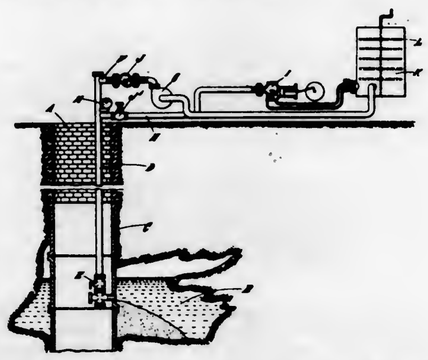
and the intake port of the pump into communication with the corresponding supply conduit when the pump is operated with a faucet open.

1,391,677. SOCKET-WRENCH. FRED FOSS, Spokane, Wash. Filed Mar. 31, 1921. Serial No. 457,430. 3 Claims. (Cl. 81—62.)



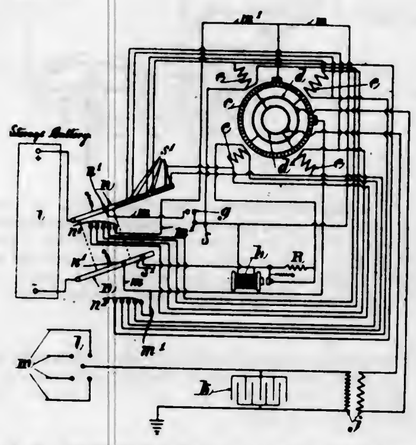
1. The combination with a shank and its forked head, of a ratchet head in said forked head and a driving device for the ratchet head, said ratchet head having a boss provided with an annular groove, and a slotted slide plate on one of the forks of said head engaging said grooved boss to prevent displacement of the ratchet head.

1,391,678. FILLING SPACES OR CAVITIES WHICH ARE DIFFICULT OF ACCESS WITH CONCRETE, CEMENT, OR THE LIKE. ALBERT FRANÇOIS, Doncaster, England. Filed May 20, 1918. Serial No. 235,554. 9 Claims. (Cl. 61—41.)



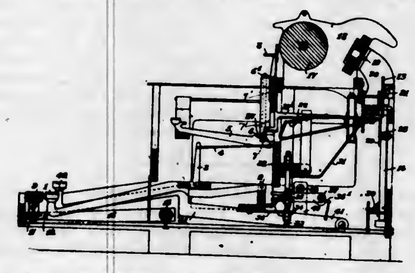
1. A method of consolidating and shutting off water from subterranean water bearing spaces which consists in establishing access to the space to be filled by means of small diameter boreholes, providing pipes and valves located in said boreholes which are capable of withstanding the pressures generated during the filling operation, connecting said pipes by means of a conduit to a system comprising a low pressure pump and a high pressure pump, providing means for cutting into or out of the system either of said pumps, forcing a filling material into said space by means of said low pressure pump, and subsequently forcing into said space under a higher pressure by means of said high pressure pump a filling material different from the kind first employed.

1,391,679. ELECTRIC GENERATOR FOR MOTOR-VEHICLES. JOSEPH GAMBS, Lyon, France. Filed July 27, 1918. Serial No. 247,072. 2 Claims. (Cl. 290—35.)



1. In apparatus for the purpose set forth the combination of an accumulator battery, a shaft, a commutator on said shaft, an armature on said shaft having a single winding, a plurality of field coils coacting with said armature, means including electric conductors and a manually controlled two-way switch for connecting said field coils and said armature to said battery in two alternative circuits, in one of which said coils are in series with each other and in parallel with the armature, and in the other of which said coils are in parallel with each other and in parallel with said armature, an automatic switch for opening the circuit wherein said coils are in series with each other, and a centrifugal governor on said shaft, whereby said automatic switch is closed when said shaft attains a predetermined speed.

1,391,680. TYPEWRITING-MACHINE. RICHARD FREDERICK GORDON, Liverpool, England. Filed Dec. 27, 1917. Serial No. 209,095. 2 Claims. (Cl. 197—97.)



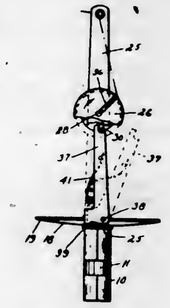
1. In a typewriter, the combination of a vertically disposed oscillatable post adapted to operate an escapement, a substantially horizontally disposed tappet on said post, type levers, a vertically shiftable universal bar adapted to be shifted horizontally by said levers and having an integral projection depending parallel about said post and arranged to be in position to operate said tappet when said bar is shifted horizontally irrespective of the vertical position of said bar.

1,391,681. RECEIVING DEVICE FOR SUBAQUEOUS SOUND-SIGNALS. WALTER HAHNEMANN, Kitzeberg, near Kiel, and HEINRICH HECHT, Kiel, Germany. Filed July 10, 1914, Serial No. 850,185. Renewed Jan. 9, 1918. Serial No. 270,441. 2 Claims. (Cl. 181—5.)



1. A submarine sound signaling plant in combination with a vessel, comprising a sound receiver surrounded by a protective envelop consisting of plates laterally inclosing said receiver and rigidly connected with said vessel; said envelop being arranged in the passing water, and being of substantially stream-line form and arrangement to prevent the formation of eddies in the passing water.

1,391,682. CARRIER FOR BRAIDING-MACHINES. JOSHUA B. HALE, Providence, R. I., assignor, by mesne assignments, to Textile Engineering Company, a Corporation of Rhode Island. Filed Feb. 2, 1920. Serial No. 355,808. 11 Claims. (Cl. 28—24.)

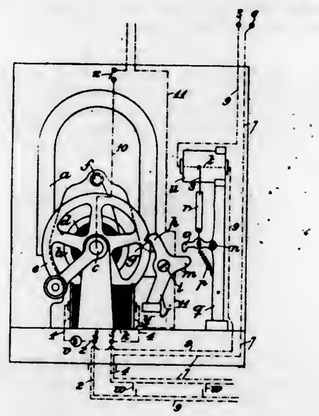


1. A carrier for braiding machines having a rotatable yarn-takeup member provided with a yarn-guiding passageway leading from its center portion to its periphery, a yarn release, and means on said takeup for operating said release when more yarn is required.

1,391,683. NUTRIMENT-CONTAINING ALBUMEN AND THE METHOD OF PRODUCING IT. ALEXANDER HERZFELD, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 15, 1918. Serial No. 228,755. 5 Claims. (Cl. 99—11.)

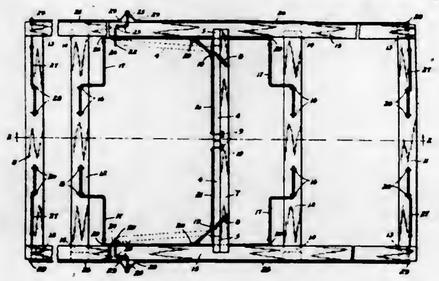
1. The process for producing an albuminous nutriment from waste yeast and sugar-juices containing saccharose which consists in sterilizing moist yeast by adding alkali and heating, then freeing the mass from water by evaporation, then adding saccharose, concentrating to a syrup-like consistency, partly inverting the sugar by means of fresh yeast and heating to nearly the boiling point.

1,391,684. ALARM APPARATUS. AAGE HALFDAN JÖRGENSEN, Lyngby, near Copenhagen, Denmark. Filed Apr. 11, 1919. Serial No. 289,398. 2 Claims. (Cl. 179—5.)



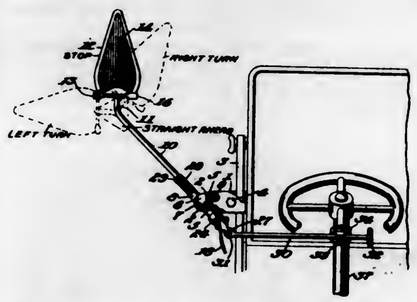
1. Alarm apparatus adapted to be inserted in the wiring of a telephone installation, comprising in combination with a local electric circuit, a movable member for producing an electric current causing the alarm, a means tending to operate said member, a locking means normally holding said member in inoperative position, a plurality of contact elements in said electric circuit, adapted to be automatically closed, a second electric circuit adapted to be short-circuited upon the cutting of the wires in the said first circuit, and means independent of each other included in each circuit and adapted to disengage the said locking means releasing the said movable member upon any of the said circuits being closed.

1,391,685. DOOR AND GATE ACTUATING MECHANISM. VICTOR LINDER, Elko, Minn. Filed Nov. 24, 1919. Serial No. 340,272. 4 Claims. (Cl. 268—9.)



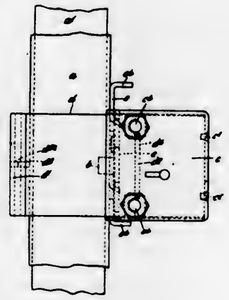
1. A door actuating mechanism comprising a post, a door extending therefrom and hinged thereto at one side, a raised rail normally extending longitudinally to the plane of the door when in closed position, a sill extending transversely to said rail at some distance from said door at each side thereof, upstanding cranks pivoted on said sills, the ends of the cranks extending to a point substantially below said rail, guiding means on said rail, one above the end of each crank member, a pair of guiding means on said rail adjacent the hinged side of said door, a cable for each crank member having its end attached to the end thereof, passing through the guiding means thereabove and through one of the guiding means adjacent the door having its other end attached to said door adjacent to the hinge thereof, and spring means tending normally to close the door.

1,391,686. AUTOMOBILE DIRECTION-SIGNAL. CLARENCE F. LYNN, Canandaigua, N. Y. Filed Mar. 12, 1921. Serial No. 451,684. 11 Claims. (Cl. 116—47.)



1. An automobile direction signal comprising an inclined operating shaft, and a triangular pointer secured at its rear end to the outer end of the shaft at obtuse angle thereto; said pointer normally pointing horizontally straight ahead, and means for turning the shaft to bring the pointer into its several indicating positions.

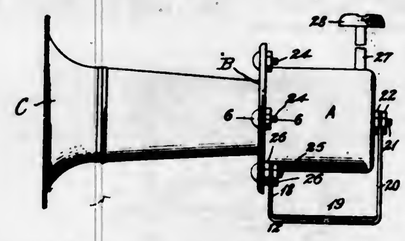
1,391,687. LOCKING DEVICE FOR USE WITH ROAD-VEHICLES. WILLIAM JOHN NIXON MANN, London, England. Filed June 10, 1920. Serial No. 387,889. 8 Claims. (Cl. 70—90.)



1. A locking device for the purpose set forth, comprising a locking member, a spring urging said member into locking position, lock mechanism for controlling said locking member by use of a key, a movable control member restraining in one position said locking member and in another position allowing the said locking member to operate, and a key controlled engagement device for said control member in its restraining position.

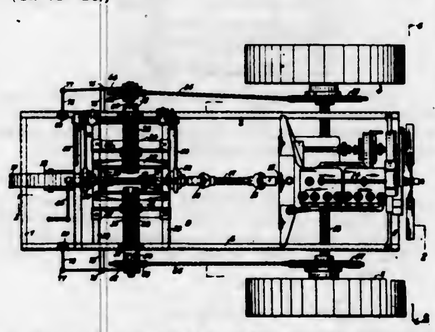
1,391,688. HORN-SHELL AND BRACKET. GERARD R. MARSICO, Brooklyn, N. Y., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y., a Corporation of New York. Filed Nov. 8, 1919. Serial No. 336,701. 2 Claims. (Cl. 248—20.)

2. The combination with a horn casing including a plunger guide passage therein, of a recessed bracket turnable on the casing, the recess of the bracket adapted to register with the guide passage when the bracket is turned to



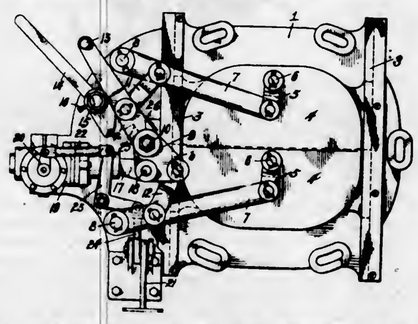
one position, and means for holding the bracket against turning movement.

1,391,689. TRACTOR. WILLIAM NASH, Denver, Colo. Filed June 13, 1919. Serial No. 303,873. 5 Claims. (Cl. 74—26.)



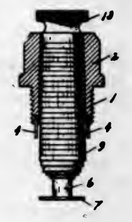
1. In combination, a frame, a support therefor including traction wheels, an operating shaft, gears arranged on opposite sides of the shaft and having their axes approximately at right angles to the axes of the shaft, pinions mounted on the shaft on opposite sides of the axial centers of the gears, an operative connection between the gears and the traction wheels, spaced pivoted yokes having movable bearings in which the operating shaft is journaled, the shaft being normally positioned between the gears to maintain the pinions out of engagement with the gears, and means for adjusting the yokes to cause the pinions to respectively engage the gears.

1,391,690. FURNACE-DOOR-OPERATING MECHANISM. CHARLES J. PILLIOD, Toledo, Ohio, assignor to Daniel Searles, trustee, Toledo, Ohio. Filed Apr. 26, 1920. Serial No. 376,524. 4 Claims. (Cl. 110—176.)



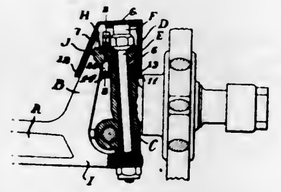
4. In a mechanism of the class described, a pair of oppositely movable sliding doors, a pair of levers fulcrumed at a side of the path of movement of the doors and each having its free end connected to one of the doors, an operating lever fulcrumed between the door levers and having an arm extended to provide a manual control, and links connecting the operating lever at opposite sides of its fulcrum to respective door levers whereby a rocking of the operating lever will impart opposed door opening and closing movements to the door levers.

1,391,691. SPARK-PLUG. WALTER B. POHLE, Lynn, Mass., assignor of one-half to Alfred Charles Page, Wollaston, Mass. Filed July 30, 1919. Serial No. 314,318. 2 Claims. (Cl. 123—169.)



1. In a spark plug the combination of a sleeve having a tapered bore, a spark terminal thereon, a terminal post slidable within said sleeve and insulated therefrom by an insulating bushing tapered to form a gas-tight joint with said sleeve in the raised position of said post within said sleeve, a spark terminal carried by said post, and a binding post nut having screw-threaded engagement with the upper end of said post, said nut having an external diameter greater than the diameter of the bore of said sleeve whereby when said post is depressed within said sleeve, said post is prevented from passing entirely through said sleeve.

1,391,692. DUST AND DIRT CAP. CHESTER J. PUGH, Ida, La. Filed Mar. 12, 1921. Serial No. 451,850. 8 Claims. (Cl. 280—96.)

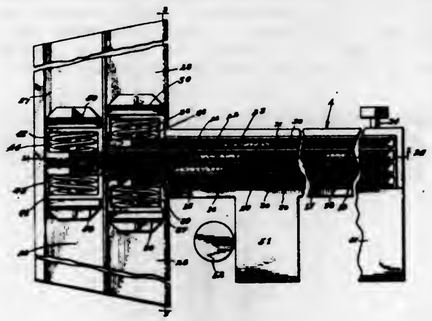


1. A dust protector arranged to house the upper end of a spindle bolt, and the upper end of the forked terminal of the front steering knuckle of motor vehicles comprising a housing, a spring catch adapted to detachably hold the housing in position against accidental displacement, and means for moving the catch into operative or inoperative position.

1,391,693. MAIL-DISTRIBUTING DEVICE. CHARLES M. RICHARDSON, Washington, D. C. Filed Mar. 14, 1919. Serial No. 282,625. 10 Claims. (Cl. 214—11.)

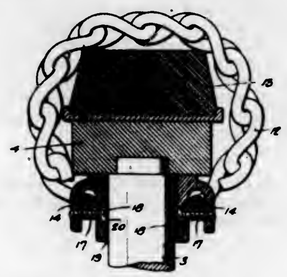
1. In a mail distributing device, a horizontal endless conveyer for initially receiving and moving letters thereon with the plane of each letter extending substantially in the direction of movement of the conveyer and intersecting the latter at an angle, a second conveyer for

subsequently receiving and moving letters with the plane of each letter extending at right angles to the direction



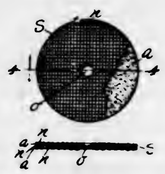
of movement imparted to the letters by said second conveyer, and means for shifting letters from the first conveyer to the second conveyer.

1,391,694. NON-SKID ATTACHMENT FOR MOTOR-VEHICLE WHEELS. BENJAMIN M. ROOF, Lima, Ohio. Filed Sept. 8, 1919. Serial No. 322,414. 2 Claims. (Cl. 152—2.)



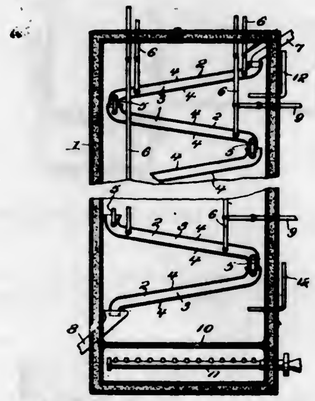
1. In a non-skid device comprising a two-part member spoke clamp; a chain securing means consisting of a chain-link securing hook formed as a part of the clamp member, said hook and clamp-member having registering openings, and a guard member engaging the openings in the hook and clamp member and preventing disconnection of a chain and hook.

1,391,695. WATER-HEATER. PAUL C. SACHSE, St. Louis, Mo. Filed Nov. 29, 1920. Serial No. 427,254. 2 Claims. (Cl. 126—362.)



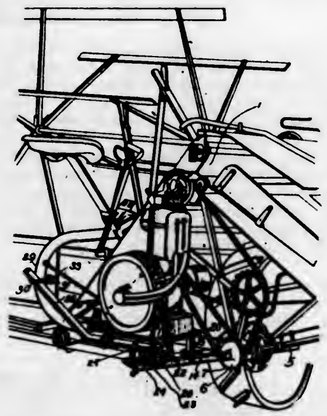
1. A heater attachment comprising top and bottom sheets of wire netting, and intermediate layers of asbestos in a loose state, permitting of a free passage of gases therethrough.

1,391,696. CEREAL AND PROCESS OF MAKING THE SAME. GEORGE HERBERT SAUNDERS, Akron, Ohio, assignor of one-half to Addison T. Saunders, Chicopee, Mass. Filed Apr. 16, 1920. Serial No. 374,458. 4 Claims. (Cl. 99—10.)



1. As a new article of manufacture, an edible cereal product consisting of whole grain having its natural surface dry-parched and its interior body portion steam cooked, said grain being slightly expanded.

1,391,697. ENGINE-MOUNTING. HARRY E. SCHANK, Topeka, Kans., assignor to The Piersen Manufacturing Company, Topeka, Kans., a Corporation of Kansas. Filed Sept. 25, 1919. Serial No. 326,405. 19 Claims. (Cl. 248—30.)

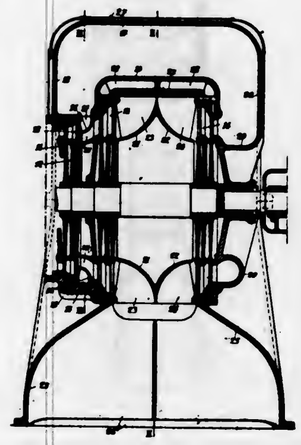


1. In combination, a frame, an engine mounting comprising a supporting beam on the frame, a stabilizing bar on the supporting beam and frame, an engine adjustably mounted on said bar and beam, and means for adjusting said engine comprising a rod attached to said engine, a rod attached to a portion of the frame and a turn buckle between said rods for the purpose set forth.

4. In combination, a frame, having a transport wheel carried thereby, an engine mounting comprising a supporting beam mounted on the frame and extending adjacent one side of the transport wheel, a stabilising bar mounted on the supporting beam and frame and extending adjacent another side of said transport wheel, and means for mounting an engine on said supporting beam and stabilising bar clear of said wheel.

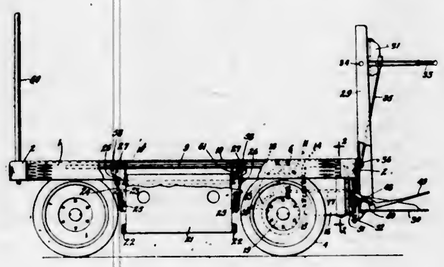
16. In an engine mounting, an engine supporting beam, a bar carried thereby, engine engaging means on the beam and bar, and mechanical means for shifting the engine with respect to the beam and bar.

1,391,698. STEAM-TURBINE. EUGÈNE SCHNEIDER, Paris, France, assignor to Schneider & Cie., Paris, France, a Limited Joint-Stock Company of France. Filed July 21, 1920. Serial No. 397,951. 8 Claims. (Cl. 253—69.)



1. In a turbine, a casing containing a plurality of pressure-stages through which successively flows the fluid-pressure, a collector in the casing leading from the outlet of a preceding pressure-stage to the inlet of a succeeding pressure-stage, and a series of guiding vanes at the outlet of the preceding pressure-stage operating to utilize the residual velocity of the fluid-pressure at its exit from said preceding pressure-stage to guide the fluid-pressure in the direction of the collector leading to the succeeding pressure-stage.

1,391,699. INDUSTRIAL TRUCK. WILLIAM SCHROEDER, Brooklyn, N. Y., assignor to Karry-Lode Industrial Truck Company, a Corporation of New York. Filed June 20, 1919. Serial No. 305,582. 25 Claims. (Cl. 180—50.)



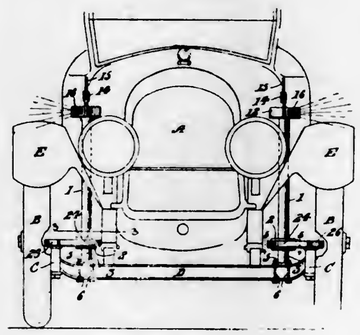
1. An industrial truck having a flexible platform composed of sheet metal with integral bent sides, an axle and wheels independently secured to said platform adjacent each end, and longitudinal intermediate stiffening means carried by said platform.

1,391,700. STORM-SASH HANGER. JULIUS J. SCHUBERT, St. Paul, Minn. Filed Apr. 23, 1920. Serial No. 376,010. 1 Claim. (Cl. 16—48.)



A window sash hanger comprising, in combination, a pair of separable, hinged plates, one constituting a loop member, the other a hook member, said members being adapted to be respectively fastened to a sash and window frame, said hook member consisting of a plate formed with two angularly disposed wings and an intermediate body, said body being flexed diagonally to form an outwardly tapering hook, said wings being flexed at the base of said hook to form a supporting back, disposed in a corresponding plane, the upper edges of said hook adjoining said back being notched to form a loop receiving journal seat for the loop member, the hook and loop of said members being so proportioned that the loop member is locked against removal from the hook member in the extreme angular positions of the former with respect to the latter, said loop member being capable of removal from said hook member only in its intermediate position, wherein the sash rests at a substantially small angle with respect to the window frame, whereby accidental removal of said sash from said window frame by wind or otherwise is avoided.

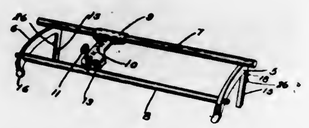
1,391,701. AUTOMOBILE DIRECTION-INDICATOR AND WHEEL-ANGLE GAGE. JOHN STANO, Livingston, Ill. Filed May 16, 1921. Serial No. 470,032. 2 Claims. (Cl. 116—36.)



1. An automobile direction indicator and wheel angle gage comprising a tubular casing adapted to be secured to a chassis bar of the automobile, a rod journaled in said casing, coöperative connections between said rod and the steering knuckles of the automobile, a direction indicator and wheel angle gage carried by the upper end of the tubular casing and rod, said direction indicator and wheel angle gage embodying a hollow casing head fixed to the upper end of said rod and overlying the tubular casing, a bracket carried by the casing head, an arrow head carried by said bracket, an arcuate dial upon the upper face of

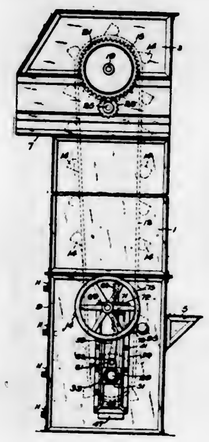
said casing head and an indicator arm carried by said tubular casing and overlying said casing head to coöperate with said dial.

1,391,702. LAWN-MOWER SHARPENER. REUBEN STONE, Ogema, Wis., assignor of one-half to Oscar V. Soderstrom, Ogema, Wis. Filed Oct. 19, 1920. Serial No. 418,104. 1 Claim. (Cl. 51—246.)



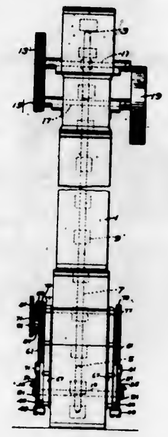
In a device of the character described, a frame, a pair of spaced rods, end members having connection with the rod, means for securing the frame to a lawn mower, a support having a curved extremity embracing one of the rods, a sharpening element carried by the support, said support having a threaded opening overlying one of the rods, a screw passing through the opening and having an enlargement contacting with the opposite rod of the frame for adjusting the support with respect to the frame, and flanges on the support for carrying the sharpening element.

1,391,703. ELEVATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 23, 1918. Serial No. 218,647. 2 Claims. (Cl. 64—52.)



1. In an elevator or the like, the combination of a pair of spaced oppositely disposed frames, bearing boxes mounted to slide vertically in the frames, a shaft journaled in the bearing boxes and having a vertically disposed conveyer belt passed thereabout, and means for adjusting the shaft and securing it in different positions of adjustment, comprising a cross shaft journaled upon said frames, a rack slidably mounted upon each frame and each rack having an end thereof pivotally secured to one of the bearing boxes, gears upon the cross shaft meshing with the respective racks, a hand wheel fast on the cross shaft and having wedge-shaped locking notches formed therein, and a gravity operated dog pivotally mounted upon one of said frames and having a tooth shaped to conform to and enter automatically into firm locking engagement with the wedge-shaped notches.

1,391,704. ELEVATOR. THOMAS J. STURTEVANT, Wellesley, Mass., assignor to Sturtevant Mill Company, Boston, Mass., a Corporation of Massachusetts. Filed Sept. 3, 1920. Serial No. 408,004. 11 Claims. (Cl. 64—52.)



9. In an apparatus of the character described, the combination of a pair of wheels, a belt connecting the wheels, a shaft for one of the wheels, journal boxes for the shaft, carriers having the boxes movably mounted thereupon, and means simultaneously and equally to adjust said boxes including a pair of rack bars secured to the carriers, pinions meshing with the rack bars, a shaft for said pinions, a hand wheel for rotating the shaft, and a locking device adapted to automatically lock the adjusting means in position; and spring means for yieldingly holding the boxes in position upon the carriers to allow one of the wheels to move toward the other when material works in between one of the wheels and the belt.

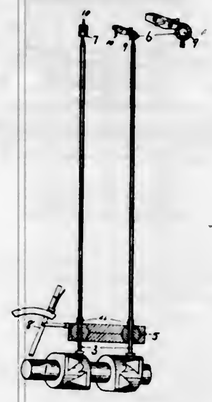
1,391,705. PROCESS FOR PRODUCING TANNIC-ACID COMPOUND OF THE DIGITALISGLYCOSIDS. RUDOLF TAMBACH, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Jan. 18, 1917. Serial No. 143,144. 7 Claims. (Cl. 167—4.)

1. The process of producing a therapeutical preparation which comprises extracting a solution of digitotannates with a solvent, removing the solvent by distillation, dissolving the product thus obtained in alcohol, adding thereto an alcoholic solution of tannates, and thereafter removing the solvent.

7. As a new therapeutical preparation, the digitoglucotannic acid compound obtained by treating digitalis glucosids with a tannic acid compound, said preparation being a grayish brown powder, amorphous, insoluble in water and dilute acids, soluble in ethyl alcohol, and readily soluble in alkalis.

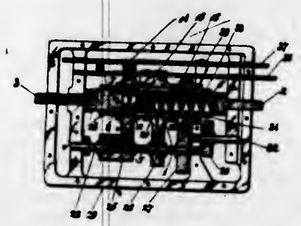
1,391,706. REVERSING-GEAR FOR INTERNAL-COMBUSTION ENGINES. JOHN F. VAN TUYL, Minneapolis, Minn. Filed Aug. 13, 1920. Serial No. 403,360. 2 Claims. (Cl. 123—41.)

1. In an internal combustion engine, in combination with a cam having lobes severally fitted for forward and back motion, a push rod having a universal joint at the valve end and a rotatable guide carried in a movable



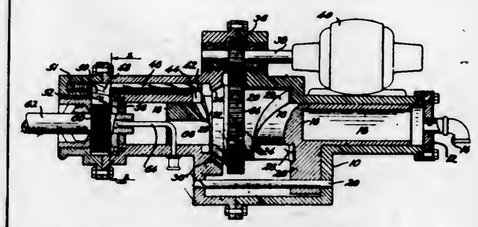
harness near the cam end; and means for manipulating the same, substantially as described and for the purpose set forth.

1,391,707. AUTOMATIC CHANGE-SPEED TRANSMISSION. PHILIP VIVIANO, St. Louis, Mo. Filed Aug. 15, 1918. Serial No. 250,035. 3 Claims. (Cl. 74—59.)



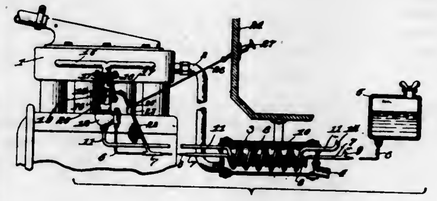
1. An automatic change speed transmission, comprising a supporting frame; a tubular link rigidly joined to the driving shaft and having a free bearing on the driven shaft; two oblique adjustment worms cut through the opposite walls of said link; a cylindrical head slidingly mounted within said tubular link; a pin rigidly set through said head with its ends projecting through said adjustment worms to form dogs; a counter-shaft journaled in the frame parallel to said tubular link and spaced therefrom as required; keys rigidly joined to the ends of the driving and driven shafts adjacent said link; a set of variable primary gears freely mounted on said tubular link, and the two end gears being adapted to longitudinal movement along same; alined key-ways cut across the bearings of said gears and adapted to engage both the shaft keys and the projecting dogs aforesaid; a set of secondary, variable gears rigidly mounted on said counter-shaft in mesh with their respective primary gears, the high speed secondary gear being of a width sufficient to permit the aforesaid longitudinal travel of the high speed primary gear; a reverse gearset mounted forwardly in permanent mesh with said secondary gears and adapted to mesh with the forward primary gear when same is moved forward and engages the key on the driving shaft; and means for moving the primary end gears back and forth into and out of engagement with the shaft keys as required.

1,391,708. PNEUMATIC ROCK-DRILL. CLARENCE R. WELCH, Denver, Colo. Filed Feb. 14, 1920. Serial No. 358,584. 6 Claims. (Cl. 255—42.)



1. In a rock drill, a casing, a hammer reciprocable therein, a drill to be engaged by said hammer, a rotary cam, about the hammer, a gear on the cam to turn the same, means operated by the cam to turn the drill, and pneumatic means to propel the hammer.

1,391,709. AIR AND FUEL HEATER FOR AUTOMOBILE-MOTORS AND OTHER OIL-ENGINES. JESSE N. WOOD, Venice, Ill., and FREDERICK ROEWEKAMP, St. Louis, Mo. Filed Sept. 13, 1919. Serial No. 323,667. 1 Claim. (Cl. 257—241.)

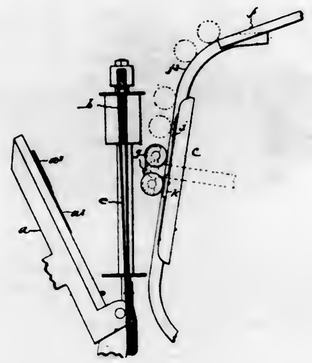


An improved air and fuel heater for automobile motors and other oil-engines, comprising a heating-chamber, an engine exhaust-pipe connected to said heating-chamber, whereby the latter will act as a muffler for the exhaust as well as a heater for the devices on the interior of said chamber, a composite coil located on the interior of said heating-chamber and consisting of a fuel-pipe placed within an air-pipe of larger diameter than said fuel-pipe and both pipes coiled together, a fuel-tank from which liquid fuel is delivered to the said fuel pipe coil, a carbureter to which heated fuel is delivered by said fuel-pipe coil, a separate air-pipe coil located in said heating-chamber, and connected to said carbureter to deliver heated air to the latter, an engine intake-manifold, a casing connecting said carbureter to said intake-manifold, a check-valve in said casing, an air-pipe connection which leads heated air from one of said coils in said heating-chamber to the interior of said casing at a point between said carbureter and said check-valve, and a valve for throttling the air in said air-pipe connection.

1,391,710. PROCESS FOR CONVERTING LIMESTONE INTO A COMPRESSIBLE ARTIFICIAL STONE. CARL LUDWIG VALENTIN ZIMMER, Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Original application filed Aug. 11, 1915, Serial No. 45,023. Divided and this application filed Feb. 7, 1918. Serial No. 215,940. 2 Claims. (Cl. 106—31.)

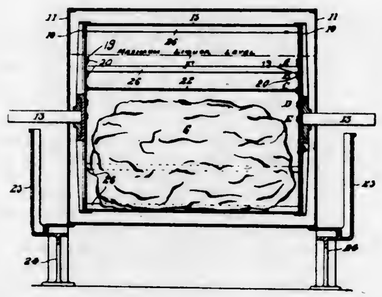
1. The herein described process of converting limestone into compressible artificial stone which consists in mixing stone containing lime with a bituminous substance containing sulfated sebacic acid.

1,391,711. PRINTING-PRESS. REED ADAMS, Detroit, Mich. Filed Feb. 13, 1920. Serial No. 358,444. 3 Claims. (Cl. 101—195.)



1. In a printing press having inking rollers, a body of type having its printing surface so located as to receive ink from said rollers, an address-plate supporting surface located out of the path of travel of said rollers, means for supporting an inking ribbon in front of said address plate holding surface and a platen adapted to receive an impression sheet and press the same against the printing surface of said type and an address plate on said surface.

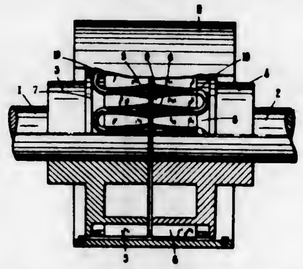
1,391,712. BLEACHING, DYEING, WASHING, AND SOAPING CYLINDER FOR KNITTING-MILLS, DYE-HOUSES, BLEACHERIES, AND LAUNDRIES. DEAN BROWN BECKER, Port Atkinson, Wis. Filed Mar. 2, 1921. Serial No. 449,071. 5 Claims. (Cl. 8—8.)



1. A device for treating textiles with liquids comprising a casing, a foraminous cylinder mounted for rotation therein having opposite doors in the outer annular wall thereof, the cylinder having opposite ends provided with pairs of ribs with grooves in alinement between the said doors adapted for the removable reception of perforated, slotted or foraminous shelves at adjustable elevations.

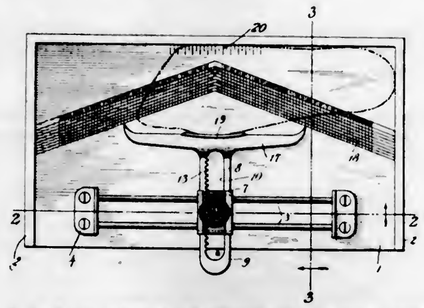
1,391,713. POWER-TRANSMISSION COUPLING. JAMES BIBBY, London, England. Filed Dec. 14, 1920. Serial No. 430,709. 5 Claims. (Cl. 64—96.)

5. A flexible shaft coupling comprising coupling elements on the driving and driven shafts respectively and having peripheral axially directed and normally alined inwardly flaring grooves, a grid-like interconnecting member housed in said grooves, the walls of the latter being modified as compared with the natural curvature of the par-



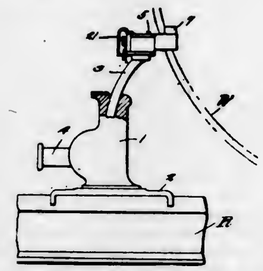
allel limbs of said member in their maximum deflected condition so that as the limbs become deflected their unsupported length becomes less.

1,391,714. FOOT-MEASURE. THOMAS B. BLAKE, Demopolis, Ala., assignor of one-half to J. R. Vance, Demopolis, Ala. Filed May 28, 1918. Serial No. 237,038. 5 Claims. (Cl. 33—3.)



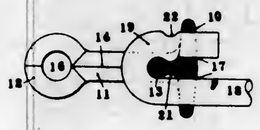
5. In a foot measure the combination of a board having abutments at each end and at one side, said board having scale lines parallel with the end abutments for indicating the shoe lengths for the left foot and for the right foot, respectively, when the foot is placed against one of the end abutments, and other scale lines extending diagonally from the end abutments toward the middle and inclined toward the side abutment for indicating the width of shoe, an indicating member carried by said board adjustable both longitudinally and transversely thereof for indicating the proper scale marks for the foot being measured.

1,391,715. CAR-MOVER. GUY L. BONHAM, Hartford, Conn. Filed July 6, 1920. Serial No. 394,082. 5 Claims. (Cl. 254—131.)



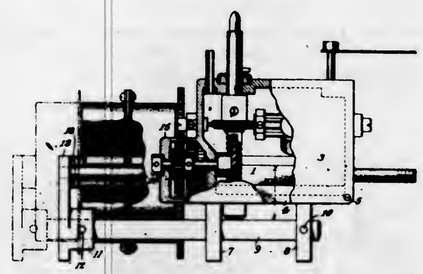
1. In a car mover the combination with a gripping head and means for moving the same upwardly and downwardly, of opposed gripping jaws carried by the gripping head, a spring, means operated by the spring for holding the jaws normally shifted toward each other, a slide, means controlled by the lowering of the gripping head for shifting the slide relative to said gripping head, and means operated by the slide for moving the jaws against the action of the spring.

1,391,716. BRAKE-ROD JAW. STERLING H. CAMPBELL, St. Louis, Mo. Original application filed Oct. 15, 1919, Serial No. 330,944. Divided and this application filed July 9, 1920. Serial No. 394,929. 4 Claims. (Cl. 29—164.)



1. A forged metal blank for forming brake rod jaws, comprising a pair of arms terminating in enlarged ends for the pin eyes, said ends having their central parts extending beyond the sides of the arms, said extending parts being adapted to be removed by the perforation of the ends to produce the pin eyes.

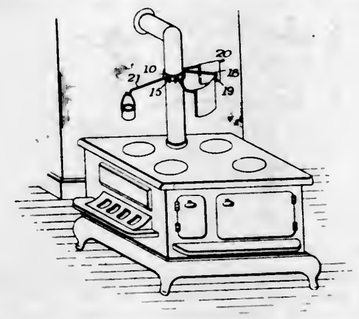
1,391,717. FRAME FOR PHONOGRAPH-MOTORS. GEORGE T. CHERINGTON, Waukegan, Ill. Filed Apr. 9, 1920. Serial No. 372,567. 4 Claims. (Cl. 74—56.)



3. A frame for phonographs, comprising a rectangular casing, having a chamber therein, open on one side, a wall partially closing said side, a detachable plate covering both said wall and said open side, a plurality of downwardly depending lugs, having openings therethrough, adjustable means carried by the lugs, and an outboard bearing detachably secured thereto.

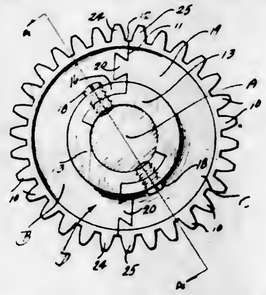
1,391,718. HOUSEHOLD DRYING-RACK. CHARLES H. CLARKSON, Worcester, Mass. Filed Apr. 5, 1920. Serial No. 371,255. 1 Claim. (Cl. 126—343.)

As an article of manufacture, a kitchen drier comprising a band of soft metal provided with a tongue on one end and two perforations at the other for receiving said tongue, said tongue passing under said other end out through one perforation and inwardly through the other perforation nearest the end, whereby the band can be passed about a stove pipe and clamped thereto so that it will hold its position thereon, said band having a plurality of vertical sockets on its outer surface, two of them being opposite said tongue and spaced apart, horizontal supports independently pivoted in the sockets located at the sides, a hanger consisting of a horizontal curved bar located in the same horizontal plane as said pivoted supports, having at its ends two converging horizontal arms, the ends of the arms being bent downwardly at right angles and being received in said two sockets opposite the tongue, whereby the hanger is supported



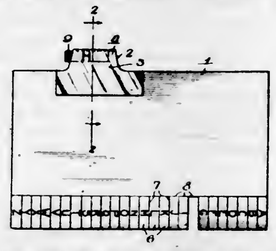
rigidly in position solely thereby and spaced from the band and its supports, and when loaded will pull said band into position to apply additional pressure on the tongue and thereby hold it more firmly in place.

1,391,719. SECTIONAL GEAR-WHEEL. WILLIAM B. CONYNGHAM, Wilkes-Barre, Pa. Filed July 29, 1920. Serial No. 399,700. 11 Claims. (Cl. 74—28.)



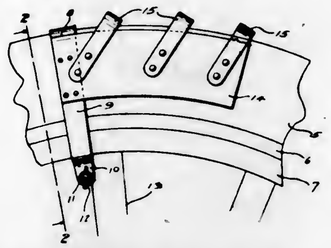
In a sectional gear wheel, the combination with a shaft, of a pair of sections forming the gear wheel, said sections being dove tailed to prevent pulling apart thereof with respect to each other, and means to prevent translational movement with respect to each other, said means also adapted to key the gear sections to the shaft.

1,391,720. INDEX. ELMER W. DAVIS, Newton Center, Mass., assignor to Shaw-Walker Company, Muskegon, Mich., a Corporation of Michigan. Filed Dec. 18, 1920. Serial No. 431,530. 4 Claims. (Cl. 129—16.8.)



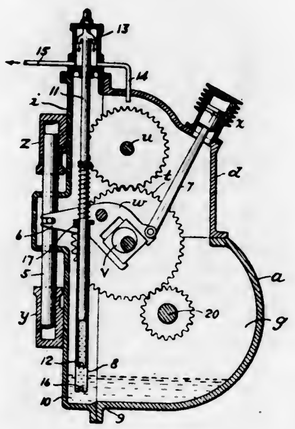
1. An index card having a marginal tab comprising a pocket adapted to retain a removable insert, of a series of index designations printed on the body of said card, and adapted to be cut therefrom to provide said insert.

1,391,721. TRACTION DEVICE. PLINY W. DEUEL, Chicago, Ill. Filed July 7, 1920. Serial No. 394,415. 1 Claim. (Cl. 152—14.)



An anti-slipping device for vehicle tires, comprising plates seating along the sides of the tire, a plurality of arched traction strips connecting said plates and straddling the tread of the tire transversely at an oblique angle to and facing in the direction the wheel travels, said strips being spaced intermediate their ends from the tread of the tire, and attaching means for the aforesaid side plates.

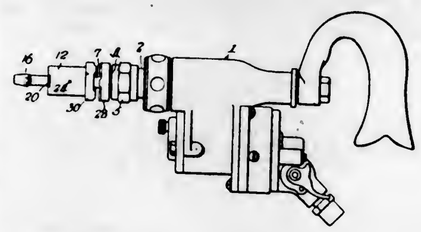
1,391,722. LUBRICATING SYSTEM FOR INTERNAL-COMBUSTION ENGINES. ELEUTHERE PAUL DU PONT, Montchanin, Del. Original application filed Feb. 25, 1919, Serial No. 279,083. Divided and this application filed Sept. 11, 1919. Serial No. 323,181. 9 Claims. (Cl. 184—27.)



8. In an internal combustion engine, the combination with the cylinders and moving parts thereof including the crank shaft, of an open faced housing for inclosing the moving parts, a cover for the opening in said housing, a pocket in said cover forming an oil well, a pump extending into said oil well, an eccentric on the shaft, an arm adapted to be rocked by said eccentric, means for operating the pump from the arm, and means to lead the pumped oil to the moving parts of the engine.

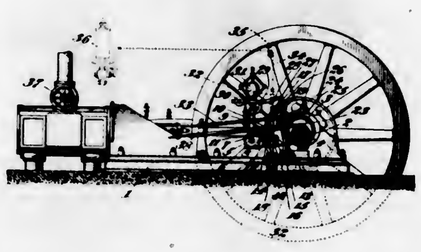
1,391,723. TOOL-HOLDING DEVICE. GILES H. DU SELL, Chicago, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed Feb. 9, 1920. Serial No. 357,187. 3 Claims. (Cl. 144—32.)

1. A device of the character described, comprising a sleeve adapted to be connected with a rotary power driven member, a tool holding chuck having a spindle extending into said sleeve from the outer end thereof and being slidably and rotatably mounted therein, opposed clutch members, one on the outer end of said sleeve and the other on said chuck at the outer end of said spindle, and resilient means in said sleeve and acting on said spindle to normally hold said clutch members disengaged, said clutch members having clutch teeth



connecting the sleeve and chuck together during the rotation of said sleeve when the clutch members are moved into engagement by the chuck being moved toward the sleeve on forcing the tool carried by the chuck against the work, said clutch teeth having their engaging side faces inclined at such angles that the clutch members will slip relatively to each other when the chuck is held against rotation while the clutch members are engaged.

1,391,724. SAFETY DEVICE FOR ENGINES. WILLIAM R. EICHENSER, Johnstown, Pa. Filed Oct. 7, 1920. Serial No. 415,290. 6 Claims. (Cl. 137—140.)

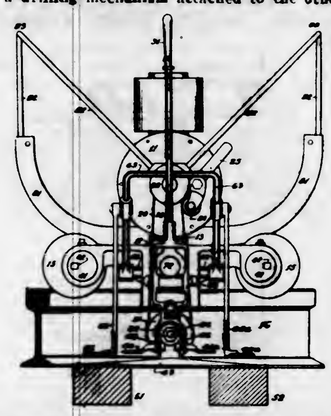


1. The combination with an engine governor of a safety device comprising a weighted stop rod having one end extending over the admission valve reach rod of the engine, a trip adapted to hold said stop rod normally clear of said reach rod, and a weighted trip lever fulcrumed on the engine frame and having the weighted end thereof normally supported by the governor belt whereby when the governor belt breaks the trip lever actuates said trip to release the stop rod which drops on to the admission valve reach rod, thereby lowering the same and reducing the engine speed.

1,391,725. TRACK-DRILLING MACHINE. EDWARD A. EVERETT, New York, N. Y. Filed Mar. 3, 1919. Serial No. 280,208. 7 Claims. (Cl. 77—9.)

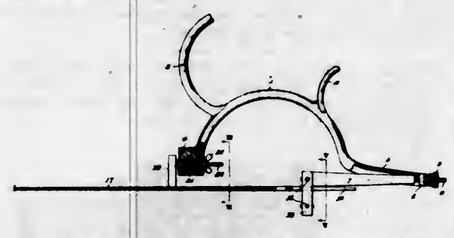
1. In a track drilling machine, the combination of a carriage mounted upon rollers on one rail of said track,

a motor adjustably positioned on one side of said carriage, a drilling mechanism attached to the other side of



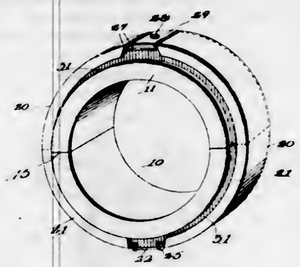
said carriage, and means for operating said mechanism by said motor.

1,391,726. TOOL-HANDLE. MICHAEL FALOS, Boston, Mass. Filed June 11, 1920. Serial No. 388,160. 6 Claims. (Cl. 29—80.)



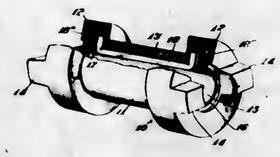
1. An implement of the class described comprising an arched handle, an apertured head carried by one end thereof, the opposite end of said handle having a passage opening therein, tool supports associated with each end of the handle, one of said supports including a block, a screw carried by the block and extending through the head of the handle and an adjusting nut for said screw.

1,391,727. SAFETY SPLIT SET COLLAR. JOHN CROSS FIELD, Lutcher, La. Filed June 26, 1920. Serial No. 392,030. 7 Claims. (Cl. 287—52.)



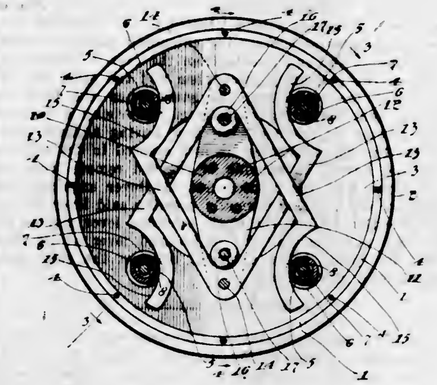
5. A safety split set collar comprising a pair of hinged collar sections detachably connected and adapted to be swung to separated positions, and a safety shield therefor comprising hinged sections and means for securing the free ends of said sections to the collar sections.

1,391,728. SPLINE-CARRYING-MACHINE ELEMENT. ALVA J. FISHER, Evanston, Ill. Original application filed Dec. 23, 1918, Serial No. 267,991. Divided and this application filed Feb. 16, 1920. Serial No. 358,953. 5 Claims. (Cl. 287—52.)



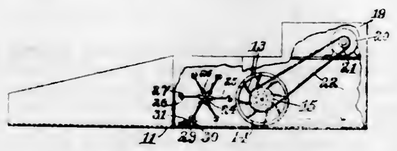
1. A splined-machine-element comprising a shaft-receptive liner having a slot, a spline projecting inwardly through said slot and outwardly beyond the liner, and a cast body exteriorly investing said liner and the outwardly-projecting spline portions.

1,391,729. RESILIENT WHEEL. THEODORE C. FORBES, Chicago, Ill. Filed June 28, 1919. Serial No. 307,323. 9 Claims. (Cl. 152—28.)



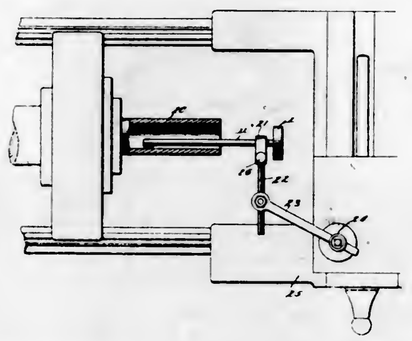
1. In a resilient wheel, the combination of a hub and a rim arranged normally concentrically therewith, pivots disposed on opposite sides of said hub, and a pair of open ends substantially V-shaped members mounted to oscillate at their apices on said pivots and yieldably connected at their free ends with said rim.

1,391,730. WATER-WHEEL. LOUIS E. FRANKE, Washington, D. C. Filed May 11, 1917. Serial No. 167,885. 4 Claims. (Cl. 170—102.)



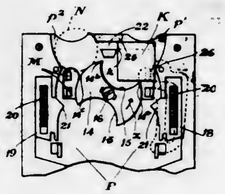
1. In combination with a water wheel, an impeller wheel co-acting therewith, said impeller having spring pressed hinged blades, and a stop in the path of said blades intermittently obstructing the movement of said impeller.

1,391,731. TEST-INDICATOR. GEORGE JOSEPH GENUNG, Beaver Falls, Pa., assignor of one-half to Walter G. Klein, Beaver Falls, Pa. Filed July 19, 1920. Serial No. 397,159. 3 Claims. (Cl. 33—172.)



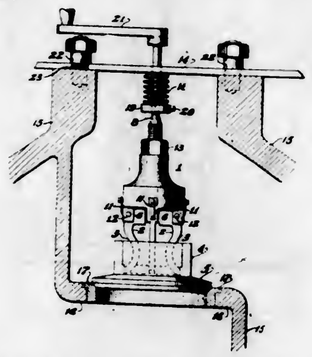
1. In combination, a case having indicating mechanism, and having a tubular extension of relatively great length and small diameter, a lever pivoted in the extension and having an integral contact lug extending radially beyond the same at the end remote from the case, a connection between the indicating mechanism and the other end of the lever for controlling the same when the lever is moved, said indicating mechanism comprising a pointer arm pivoted to the case, the case having a scale with which the arm coöperates, an arm secured to the pointer arm and having an opening at the end remote from its connection with the pointer arm, the lever engaging the opening, and a spring normally pressing said lever lug in one direction against the work, a second lever pivoted to the case and engaging the first-named lever at its free end, the spring being arranged between the said last-named lever and the case.

1,391,732. SLOT-CLOSING DEVICE FOR COIN-CONTROLLED VENDING-MACHINES. ALBERT D. GROVER, New York, N. Y., assignor to Autosales Corporation, a Corporation of New York. Filed Nov. 20, 1918, Serial No. 263,252. Renewed Feb. 16, 1921. Serial No. 445,491. 6 Claims. (Cl. 194—1.)



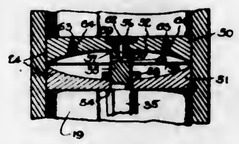
1. In a coin-controlled vending machine, a casing having a compartment for containing the vendible package, a normally closed lid for said compartment, said casing being provided with a coin-entrance slot which is open when the lid is closed, coin-controlled mechanism for opening said lid, said mechanism including means for automatically closing said coin-entrance slot when the lid is open, and a member constructed to be fully inserted into said coin-entrance slot when the lid is closed, whereby said slot is closed against the insertion of a coin, said member being readily adjustable in said slot to cause a portion thereof to project out of the casing for removal through said slot.

1,391,733. HOLDER FOR VALVES WHILE BEING GROUND. FREDERICK W. HECKLER, Darby, Pa. Filed July 13, 1920. Serial No. 395,896. 3 Claims. (Cl. 51—29.)



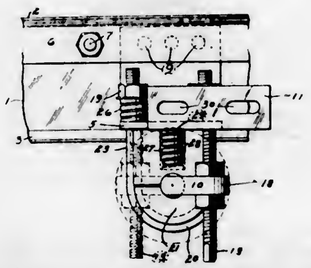
1. In a valve grinding device, a tubular head, a threaded spindle having a threaded portion engaging the threaded bore of the head and a narrow threaded portion which is free from engagement with said threaded bore of the head, elbow-shaped jaws pivotally mounted on said head and having inturned limbs at top extending in the path of the spindle, jamming means on the narrowed threaded portion of the spindle adapted to bear against said head, and means resiliently pressing on the spindle to force the valve to its seat while being ground.

1,391,734. LUBRICATING DEVICE FOR INTERNAL-COMBUSTION ENGINES AND THE LIKE. DANIEL C. HEISTER, Boulder, Colo. Filed Oct. 27, 1919. Serial No. 333,457. 6 Claims. (Cl. 74—108.)



1. The combination with a cylinder, of a piston therein comprising a pair of spaced sections providing between them a lubricant reservoir and an annular slot communicating with said reservoir and with the periphery of said piston.

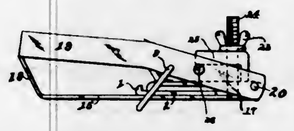
1,391,735. SUSPENSION DEVICE. ISIDOR M. JACOBS, Kansas City, and WILLIAM CRAMER, St. Louis, Mo., assignors to Truck, Tractor and Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 17, 1920. Serial No. 366,660. 14 Claims. (Cl. 180—64.)



1. The combination of a support, a plate running longitudinally thereof, bolts for connecting the same together,

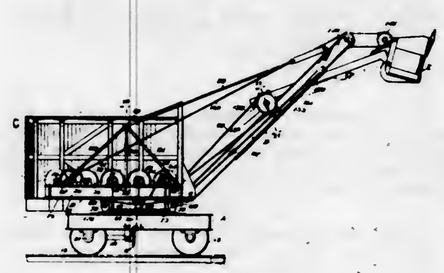
a primary supporting member held by said support, a secondary supporting member borne by the said primary member, and spring means in relation to the said primary and secondary supporting members adapted to absorb shock and jar, and a tertiary supporting member, the said tertiary supporting member being adjustable vertically.

1,391,736. BELT-LACING TOOL. ISIDOR M. JACOBS, Kansas City, and WILLIAM CRAMER, St. Louis, Mo., assignors to Truck, Tractor and Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 12, 1920. Serial No. 395,668. 4 Claims. (Cl. 1—50.)



2. A belt lacing device comprising a plate having staple receiving means, a staple retaining pin passed through said plate, a clamping device engaged with said plate to hold the staple retaining pin in position, a U-shaped belt holding member having a cross rod engaged by said clamping device, tensioning means for said clamping device, and an anvil supporting said plate.

1,391,737. POWER-SHOVEL. CHARLES S. JOHNSON, Toledo, Ohio. Filed Nov. 13, 1919. Serial No. 337,754. 9 Claims. (Cl. 214—135.)



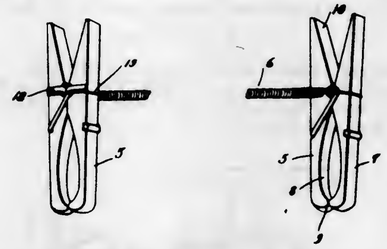
1. A truck frame having in structural combination four beams connected together and forming a quadrangle, a member centrally placed in the quadrangle and having recesses in its sides, four beams diagonally placed in the quadrangle and connecting the corners thereof with the centrally placed member, means for rigidly connecting the diagonal beams with the beams forming the quadrangle and with the center member, and angular brackets fixed to the inner end portions of the diagonal beams and fitting in the recesses in the central member.

1,391,738. SEALING-PASTE. FREDERICK E. KEY, St. Louis, Mo., assignor to Key Boiler Equipment Company, St. Louis, Mo., a Corporation of Missouri. Filed Mar. 18, 1920. Serial No. 366,981. 4 Claims. (Cl. 106—8.)

3. A sealing paste of the character described comprising graphite mixed with molasses, and a substance preventing fermentation of the molasses.

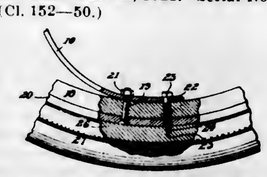
1,391,739. TAIL-HOLDER. ELIAS D. KING, Prairie du Sac, Wis. Filed Apr. 14, 1920. Serial No. 373,876. 1 Claim. (Cl. 24—253.)

A clamp including opposed jaws pivotally connected together, a spring actuating member associated with the jaws, said spring actuating member including a central coiled spring section and arms, the arms adapted to embrace the opposed jaws, a relatively small wire member embracing the jaws, a pin extending through the central



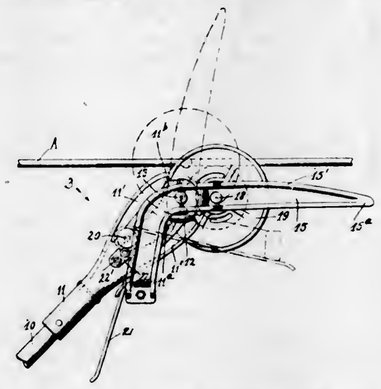
coiled spring section and having its ends extending at right angles for securing the pin thereto, said wire member having connection with the pin and said pin having an eye forming a part thereof.

1,391,740. SPRING-WHEEL. MICHAEL KOSTECKI, Hartford, Conn. Filed Mar. 31, 1921. Serial No. 457,551. 1 Claim. (Cl. 152—50.)



A spring wheel including a spoke carrying hub section the spokes of the hub section being formed of curved sheet metal, a felly having a permanent rim secured thereon, a bolt passing through the outer end of each spoke and through said felly and rim for securing the outer ends of the spokes to said felly, a detachable rim adapted to carry a cushion tire and disposed upon said permanent rim, said detachable rim being provided with sockets in its inner face, and a removable bolt passing through the free end of each spoke and through the felly and permanent rim, said detachable bolt being provided with a reduced smooth outer end seated within a socket of the detachable rim.

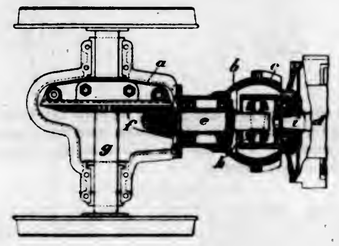
1,391,741. TROLLEY-WHEEL. CHRISTIAN E. LIEBENBERG, Essington, Pa. Filed July 22, 1920. Serial No. 398,113. 3 Claims. (Cl. 191—83.)



1. In a device of the class described, a harp having a forked end, a carrier and guard pivoted on said harp, a

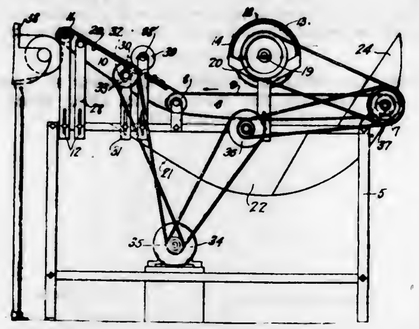
trolley wheel carried by said carrier and guard, a spring arm attached to the harp and bearing in said carrier and guard and urging the same upwardly, the point of engagement of said arm with said carrier and guard increasing in distance from its point of attachment to the harp as the carrier and guard moves upwardly relatively to the harp.

1,391,742. BOGIE FOR RAILWAY-VEHICLES. HERMANN LIECHTY, Berne, and JACOB WERZ, Geneva, Switzerland. Filed July 21, 1920. Serial No. 398,025. 1 Claim. (Cl. 105—118.)



In a drive and draw device for bogies of railway vehicles, a driving axle on the bogie, a driving and drawing hollow bracket coupled to said axle, a rotary driving shaft within said bracket, a motor fixed on the main frame of the vehicle to actuate said driving shaft, a universal joint for connecting the latter to said motor, power transmission means between said driving shaft and the driving axle of the bogie and a universal joint for connecting the hollow bracket to the main frame of the vehicle, substantially as and for the purpose described.

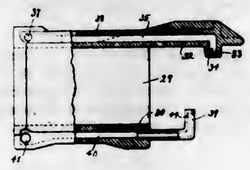
1,391,743. MACHINE FOR PRODUCING RAISED PRINTING. SAMUEL LIPSIUS, New York, N. Y. Filed Mar. 23, 1920. Serial No. 368,017. 17 Claims. (Cl. 91—59.)



2. In a device of the character described, inclined means for conveying a printed sheet to a heater, means for depositing powder on the sheet, and a vibrator for the conveyer to cause excess powder to fall off.

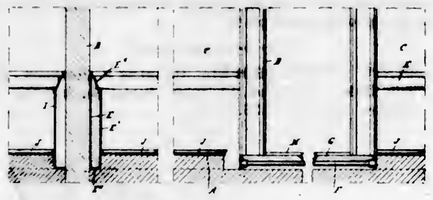
1,391,744. FUEL-DISTRIBUTER. NATHAN M. LOWER, Pittsburgh, Pa., assignor to Locomotive Stoker Company, a Corporation of Pennsylvania. Filed June 19, 1920. Serial No. 390,143. 7 Claims. (Cl. 302—61.)

1. In a fuel distributer, an open ended tube adapted to be disposed in a substantially horizontal position and through which fuel may be impelled, and a fluid-discharging nozzle at the upper side of the forward end of the tube



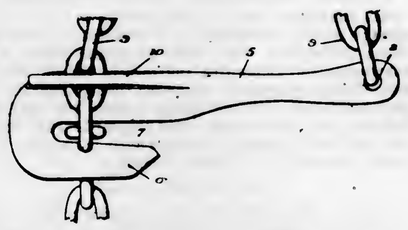
and having its outlet ports backwardly and downwardly directed.

1,391,745. HEATING ARRANGEMENT FOR ROOMS AND THE LIKE. HILDING LUBECK, Heserud, Sweden. Filed Feb. 4, 1919. Serial No. 274,990. 2 Claims. (Cl. 257—133.)



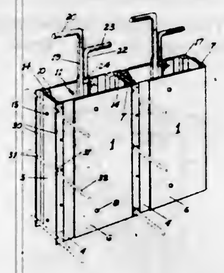
1. In a heating arrangement for rooms and the like, radiator sections arranged alongside the walls of a room, and having their lower portions in the floor of the room, and pipes, also located in said floor, for connecting said radiator sections.

1,391,746. GRAB-HOOK. ALBERT W. MCGUIRE, Carmel, Me. Filed June 24, 1920. Serial No. 391,387. 2 Claims. (Cl. 24—230.5.)



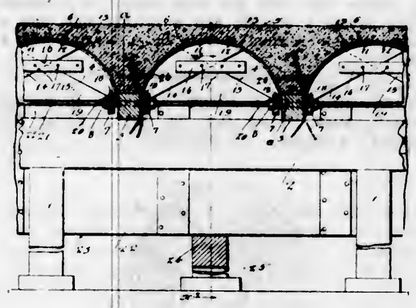
1. A chain hook comprising a shank having an eye at one end and a bill at the opposite end with a chain-engaging slot between said bill and shank opening in a direction toward the first named end of the shank, said shank being provided at that side of said slot opposite to said bill with a substantially longitudinal flange at one side of the shank and at an angle therewith, said flange having a longitudinal slot in overlapping relation with the aforesaid slot and opening in a direction away from the first named end of said shank.

1,391,747. COLLAPSIBLE FORM. WILLIAM H. MALTMAN and TIMOTHY R. MCCOY, Stockton, Calif. Filed Oct. 18, 1920. Serial No. 417,604. 5 Claims. (Cl. 25—128.)



1. A collapsible form comprising inclosing walls arranged for telescopic movement to alter the cross sectional area of the inclosure, and means whereby all areas thus obtained will be symmetrical in shape to each other.

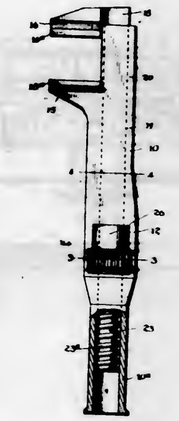
1,391,748. SYSTEM OF ARCH-RIB FLOOR CONSTRUCTION. EDWARD L. MAYBERRY, Los Angeles, Calif. Filed Dec. 22, 1915. Serial No. 68,187. 2 Claims. (Cl. 25—131.5.)



1. In combination, impost beams, transverse bolts extending through said beams, flexible metal arch plates having their lower edges resting upon said bolts, clamp strips engaging over the bolts, soffit plate supports fitting the under-side of the arch plates and notched to fit the outer upper corners of the clamp strips, and clamp means coöperating with the bolts to clamp the marginal edges of the plates between the impost beams and the clamp strips.

1,391,749. WRENCH. ARTHUR WELLS MINNEY, Stockton, Calif. Filed Apr. 6, 1921. Serial No. 458,917. 1 Claim. (Cl. 81—167.)

In a wrench of the character described, a body portion having a longitudinal bearing therein of polygonal cross section and having a recess extending from side to side thereof, a fixed jaw carried by said body portion, a movable jaw coacting with said fixed jaw, a shank carried by said movable jaw and slidably received in the bearing of said body portion, said shank being of polygonal cross section and having shoulders formed adjacent said movable jaw, an extension bearing carried by the body portion and alined with its bearing and having longitudinal flanges slidably engaging the shoulders of the shank, a traveling screw secured to the shank, a rotatable nut journaled in the recess of the body portion and having a sleeve carried by one face and rotatably abutting the body portion, a seat carried by the body portion and rotatably abutting the other face of the nut, a plurality of ribs carried by the traveling face of said nut, and a tubular extension carried



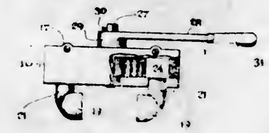
by the body portion and constituting a bearing and housing for the traveling screw and a hand grip for the wrench.

1,391,750. STRAW HAT. ROBERT C. MONTGOMERY, Brooklyn, N. Y., assignor to Knox Hat Company, Incorporated, New York, N. Y., a Corporation of New York. Continuation of application Serial No. 255,731, filed Sept. 26, 1918. This application filed Apr. 15, 1921. Serial No. 461,715. 7 Claims. (Cl. 2—108.)



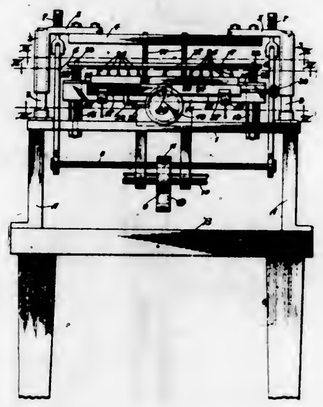
1. A straw hat of the character described, in which the region connecting crown and brim is made of straw braid which is *per se* different from and relatively more flexible than that composing the remainder of the hat.

1,391,751. HAND-NUTCRACKER. HARRY C. ATWOOD, Ardmore, Okla. Filed July 10, 1920. Serial No. 395,241. 3 Claims. (Cl. 146—3.)



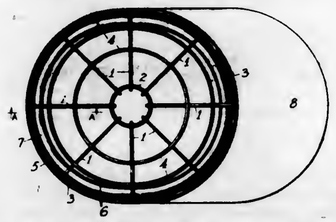
1. A hand nut cracker comprising a hollow casing having spaced horizontally alined slots at one side, coöperating opposed recessed jaws having shank portions extending transversely horizontally through the slots of the casing and prolonged longitudinally therein, and means at the other side of the casing and operatively engaged with said shank portions within the casing for simultaneously moving the jaws in opposite directions for cracking or releasing a nut.

1,391,752. MACHINE FOR MARKING VAMPS OF SHOES. CHARLES AUGUSTINE, Hermann, Mo. Filed Aug. 18, 1919. Serial No. 318,259. 13 Claims. (Cl. 33—4.)



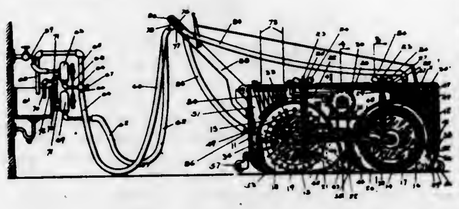
1. A shoe vamp marking machine comprising piercing pins for marking a vamp at its tip and quarter receiving portions, a vamp support above said piercing pins, and means for moving said vamp into engagement with said pins.

1,391,753. SAFETY HEAD-GEAR. L. STANLEY BAIER, Portland, Oreg. Filed Mar. 29, 1921. Serial No. 456,544. 3 Claims. (Cl. 2—192.)



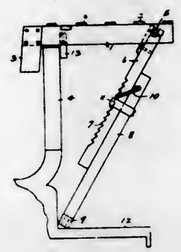
1. In a safety head gear, the combination of a crown comprising a plurality of meridional strands and latitudinal rings both of spring steel wire, spotwelded at the crossing points, a metal visor spotwelded to the rim of the crown, and an air cushion at the rim within the crown.

1,391,754. WASHING-MACHINE. DEAN L. BAIR, Portland, Oreg. Filed July 7, 1919. Serial No. 309,224. 4 Claims. (Cl. 15—14.)



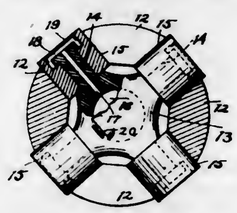
3. A scrubbing machine comprising a portable scrubbing member; a hydraulic motor; a pump operated by said motor; a hose connection from said motor to a source of water supply under pressure; a hose connection from said motor discharge to said scrubbing member; and a hose connection from said scrubbing member to said pump.

1,391,755. SERVING-TABLE. AUGUST BOYSEN, Houston, Tex. Filed Aug. 23, 1920. Serial No. 405,342. 2 Claims. (Cl. 45—51.)



2. In a device of the character described, a table including a supporting frame work, a supporting rod running through one end of said table, a supporting leg depending from the center of said rod, and revolubly secured thereto, and adjustable lengthwise, relative to the table, and depending stops carried by the other end of said table, and adapted for engagement over the side of a vehicle body, said leg being formed of a hinged member having a smooth, and a ratchet side, and a member slidably secured thereto by a bearing and a clevis.

1,391,756. UNIVERSAL JOINT. ALANSON P. BAUSH, Detroit, Mich. Filed Oct. 26, 1917. Serial No. 198,591. 4 Claims. (Cl. 64—102.)



2. A universal joint comprising driving and driven members with forked ends composed of straight arms, the arms of one member extending between the arms of the other, an intermediate power transmitting member capable of moving freely relative to each member axially thereof, said power transmitting member comprising a body having radially disposed rollers between the adjacent arms of the two members, said power transmitting member having a lubricant reservoir with provision for supplying lubricant to the bearing surfaces of the rollers.

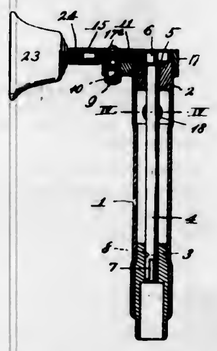
1,391,757. PRODUCTION OF PENTACHLORACETONE. HYYM E. BUC, Roselle, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Nov. 4, 1920. Serial No. 421,729. 7 Claims. (Cl. 23—24.)

1. The process of preparing pentachloracetone which consists in subjecting isopropyl alcohol to the action of chlorin under conditions controlled to produce chloracetones, separating the chloracetones and subjecting them to the action of chlorin to effect their conversion into pentachloracetone.

1,391,758. ART OF CHLORINATION. HYYM E. BUC, Roselle, N. J., assignor to Standard Oil Company, Bayonne, N. J., a Corporation of New Jersey. Filed Nov. 22, 1920. Serial No. 425,748. 4 Claims. (Cl. 23—24.)

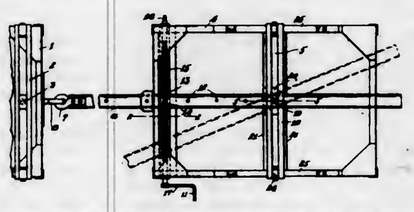
1. The process of forming chlor-propanes which comprises passing chlorin into isopropyl-alcohol while maintaining a temperature above 65–70° C.

1,391,759. VIBRATORY MASSAGING DEVICE. SAMUEL M. COFFMAN, Kansas City, Mo., assignor to The Barbers Electric Specialty Company, a Corporation of Kansas. Filed Feb. 19, 1918. Serial No. 218,170. 2 Claims. (Cl. 128—48.)



1. A massaging device consisting of a handle, a shaft journaled in said handle, a brake projecting through said handle and engaging the shaft so that the speed thereof can be retarded by pressure on said brake, an applicator, and means associated with one end of the handle and driven by the shaft to actuate said applicator.

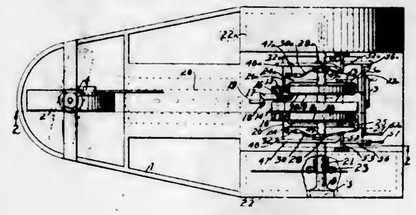
1,391,760. VEHICLE-TRAIN AND VEHICLE. JOSEPH W. COLLIER, Newark, N. Y., assignor to Arcadia Trailer Corporation, Newark, N. Y., a Corporation. Filed Oct. 25, 1919. Serial No. 333,278. 8 Claims. (Cl. 280—33.4.)



2. A two wheeled trailer comprising a body, a bolster mounted to swing about an upright axis on the body, a reach pole pivotally connected to the body, and adjusting means between the body and the reach pole for swinging said body with reference to the reach pole and the bolster.

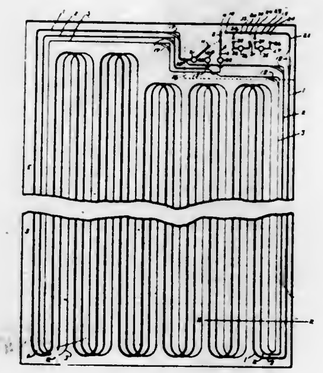
1,391,761. TRACTOR. ANGELO G. CRIBARI, San Bruno, Calif. Filed June 16, 1920. Serial No. 389,419. 4 Claims. (Cl. 180—17.)

1. A tractor including a frame, a bearing shaft mounted thereon, a revoluble double friction wheel centrally mounted on said shaft, means for actuating the same, a sleeve revolubly mounted on each end of said shaft, a drive wheel mounted on each sleeve, a pair of brake bands mounted on said friction wheel, a supporting arm mounted on each revoluble sleeve to revolve therewith and extending outwardly to a point adjacent the ends of said brake bands, and means operatively mounted on each



arm and slidably mounted on said revoluble sleeves to revolve therewith for operating said brake bands, independently of each other.

1,391,762. THERMOMAGNETIC THERAPEUTIC APPLIANCE. JOHN H. DEQUER, Kansas City, Mo. Filed May 1, 1920. Serial No. 378,217. 8 Claims. (Cl. 174—177.)

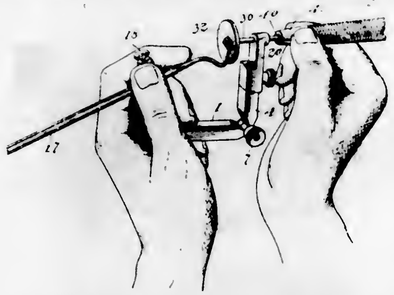


1. A thermo-magnetic therapeutic appliance, embodying a base support of suitable material; resistance conducting means comprising an anterior and a successive coil complement wound on said base support, each having a separate entrant contact end with the exit end of said successive coil complement connected in series with the entrant end of said anterior coil complement to provide for continuous circuits of varying lengths having a single final exit within the zone of said base support; and switching means associated with said respective entrant contact ends for selectively closing a shorter circuit through said anterior coil complement and a longer circuit through said successive and anterior coil complements.

1,391,763. SHARPENER FOR CUTTING INSTRUMENTS. CLOYD C. DICKINSON, Chicago, Ill. Filed Apr. 2, 1920. Serial No. 370,657. 6 Claims. (Cl. 51—166.)

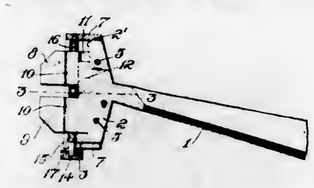
1. A grinding tool having a support with two elements which are angularly adjustable with reference to each other, one of said elements being adapted to carry the instrument to be ground and the other having a

journal bearing, a grinding wheel, and a spindle for said wheel which is both rotatable and freely slidable in said



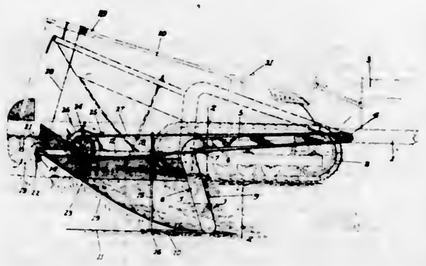
bearing, whereby the wheel may be fed toward the instrument without altering their angular relationship.

1,391,764. WRENCH. CHARLES W. DIXON, Turkey Ford, Okla. Filed June 14, 1920. Serial No. 388,912. 1 Claim. (Cl. 81—163.)



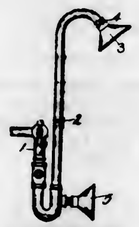
A wrench comprising a head providing guide ways, opposed jaws mounted to slide in the guide ways, one of said jaws being provided with an offset inserted centrally under the opposed jaw, the second jaw being provided with spaced offsets located upon opposite sides of the central offset of the first jaw, the offsets of each of said jaws being projected and slidably engaging the under side of the opposed jaw.

1,391,765. DITCHING-MACHINE. JAMES O. DONALDSON, Stockton, Calif. Filed Apr. 5, 1920. Serial No. 371,356. 2 Claims. (Cl. 37—25.)



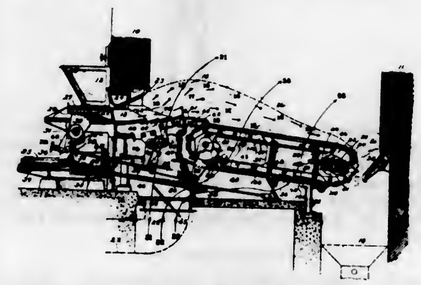
1. A ditching machine comprising a driven wheel-mounted frame, a digging mechanism mounted to the frame, means for altering the digging level of said mechanism, a fixed conveyer on the frame, independent of the digging mechanism, a runway fixed to the digging mechanism leading from the bottom level of the ditch being dug to the conveyer, and an apron formed with said runway and depending downwardly against the outside of the conveyer, the runway being free for vertical movement at the conveyer end thereof.

1,391,766. BATH-SPRAY. JEROME J. DONOVAN, Oakland, Calif. Filed June 30, 1919. Serial No. 307,618. Renewed Aug. 10, 1921. Serial No. 491,289. 5 Claims. (Cl. 299—25.)



1. A union formed in two sections, a spiral guide mounted in one of said sections, the other section having ports, and a valve wheel mounted in said other section to rotate past said ports under the influence of the water delivered from said guide.

1,391,767. FUEL-BURNING METHOD AND FURNACE. WARREN C. DRAKE, Inwood, N. Y. Filed July 12, 1918. Serial No. 244,656. 39 Claims. (Cl. 110—44.)



1. A fuel burning method comprising forcibly underfeeding fuel into the front portion of the bed of burning fuel and consecutively thereabeyond bodily carrying along the fuel bed rearward with substantially horizontal travel toward the discharge.

1,391,768. ART OF PRODUCING GLUES OR CEMENTS. ANDREW A. DUNHAM, Bainbridge, N. Y., assignor to The Casein Manufacturing Company, a Corporation of Vermont. Filed Mar. 16, 1918. Serial No. 222,961. 5 Claims. (Cl. 87—17.)

1. The herein described process of preparing a glue or cement capable of resisting the action of boiling water, consisting in mixing about 100 parts of dry commercial casein with from 200 to 300 parts of water, agitating the mixture until the casein becomes soft, then adding about five parts of dry caustic alkali to the casein mixture, agitating this mixture until the casein has been dissolved, and then stirring into this casein mixture a substantial amount, of not less than 50 per cent. of the amount of the casein, of an alkaline earth hydroxid.

1,391,769. ART OF PREPARING CASEIN GLUES. ANDREW A. DUNHAM, Bainbridge, N. Y., assignor to The Casein Manufacturing Company, a Corporation of Vermont. Filed Aug. 1, 1919. Serial No. 314,611. 1 Claim. (Cl. 87—17.)

A casein glue composition consisting of about 70 parts of casein, about 10 parts of sodium phosphate, and about 20 parts of calcium hydroxid, to which is added a small percentage of sodium silicate to govern the jelling or setting action of the glue.

1,391,770. ART OF PREPARING CASEIN GLUES. ANDREW A. DUNHAM, Bainbridge, N. Y., assignor to The Casein Manufacturing Company, a Corporation of Vermont. Filed Aug. 8, 1919. Serial No. 316,184. 2 Claims. (Cl. 87—17.)

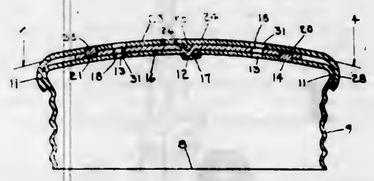
1. A casein glue preparation or composition consisting of about 70 parts of casein, about 10 parts of sodium phosphate, and about 20 parts of an alkaline earth hydroxid, all in dry comminuted form and thoroughly mixed together.

1,391,771. HEAD FOR DISPENSING VESSELS. WILLIAM G. DUNHAM, New Britain, Conn., assignor of one-half to William J. Keith, Providence, R. I. Filed Feb. 10, 1921. Serial No. 443,806. 2 Claims. (Cl. 221—64.)



1. In a head for dispensing vessels, a cover provided with dispensing holes, a cap provided with dispensing holes rotatably engaging the cover, an incomplete annular rib on the cap, a rotatable disk valve provided with dispensing holes mounted intermediate the cover and cap, and a lug on the valve intermediate the ends of the rib.

1,391,772. HEAD FOR DISPENSING VESSELS. WILLIAM G. DUNHAM, Maple Hill, Conn., assignor of one-half to William J. Keith, Providence, R. I. Filed Feb. 26, 1921. Serial No. 448,167. 1 Claim. (Cl. 221—64.)



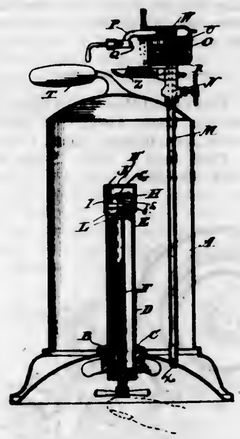
In a head for dispensing vessels, a cover provided with dispensing holes and with a central cavity, a projection on the cover, a valve rotatably mounted on the cover, provided with dispensing holes and with a central cavity and with arcuate slots, one of said slots slidably receiving the projection, a central projection on the valve loose in the cavity of the cover, a rotatable cap on the valve loosely engaging the cover provided with dispensing openings, a projection on the cap registering in another of said slots, and a central projection on the cover loose in the cavity of the valve.

1,391,773. COMBINED TRUCK AND JACK. MARTIN W. FORBES, Miamisburg, Ohio. Filed Feb. 25, 1921. Serial No. 447,821. 2 Claims. (Cl. 254—4.)



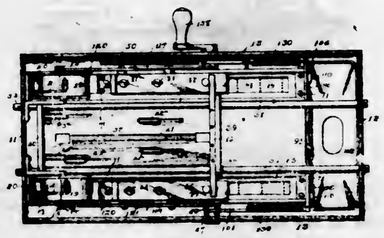
1. In a device of the type described, the combination with a truck frame, of links pivotally secured at their upper ends to the latter, upwardly inclined supporting members pivotally secured at their lower ends to the free ends of said links and to the middle portions of each other, a platform resting upon the free top portions of said supporting members, and means for actuating one or more of said links to thrust the supporting members upwardly to elevate the platform above the frame.

1,391,774. BLOWTORCH. FREDERICK E. GERSTENBERGER, South Euclid, Ohio. Filed June 16, 1919. Serial No. 304,492. 6 Claims. (Cl. 158—33.)



1. In a blow pipe, an annular chamber, a supply pipe for fuel oil under pressure, leading into the lower part of said chamber, a supply pipe for fuel gas leading from the upper part of said chamber, a burner nozzle in said fuel gas supply pipe arranged to discharge axially into said chamber, and supplying heat thereto for superheating, expanding and vaporizing said fuel oil therein, a baffle plate in the central opening in said annular chamber and adjustable longitudinally thereof.

1,391,775. STAMP-VENDING MACHINE. J. C. HAWKINS, Newton, Iowa, assignor to Clipless Paper Fastener Company Inc., Newton, Iowa. Filed Nov. 20, 1916. Serial No. 132,411. 13 Claims. (Cl. 211—33.)

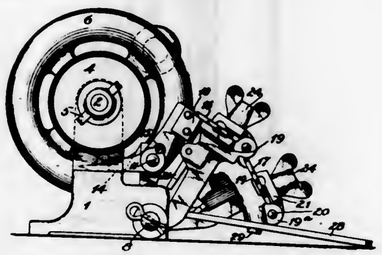


1. In a stamp vending machine, a slidable member for advancing stamps of one denomination, a second slidable

member for advancing stamps of another denomination, an actuating member adapted when operated to actuate one of said stamp advancing members, and coacting means on the stamp advancing members whereby the movement of one of said stamp advancing members imparts movement to the other of said stamp advancing members.

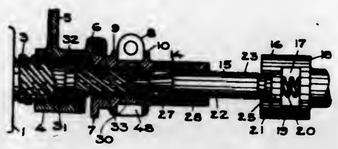
3. In a stamp vending machine, a stamp advancing device having a projecting member, a second stamp advancing device having a projecting member, an actuating device having a series of receiving means for receiving and holding a coin, whereby when the coin is selectively deposited in one of said means and said actuating member is moved, the coin will be caused to contact with one of said projecting members, said projecting members being so arranged that the movement of one of said stamp advancing devices brings the projecting members into coacting relation for imparting movement to the other of said stamp advancing devices.

1,391,776. DUPLICATING-MACHINE. NORMAN B. HURD, New Britain, Conn., assignor to American Hardware Corporation, New Britain, Conn., a Corporation of Connecticut. Filed June 7, 1920. Serial No. 386,935. 16 Claims. (Cl. 90—13.2.)



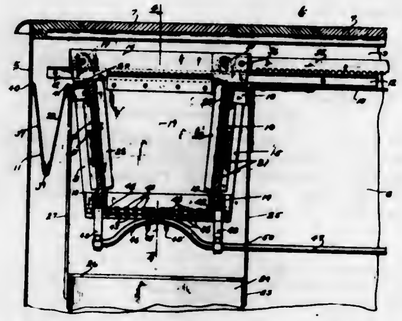
1. In a duplicating machine, a rotary cutter, a positioning device arranged at one side of, and outside of said cutter, a carriage, holding means thereon for a blank and a model, said carriage being movable to and fro and laterally said holding means being constructed to hold said blank and model in proper position relatively to said cutter and positioning device.

1,391,777. MAGNETO-COUPLING. OSKAR J. F. JACOBSON, New York, N. Y. Filed May 2, 1921. Serial No. 466,361. 5 Claims. (Cl. 64—90.)



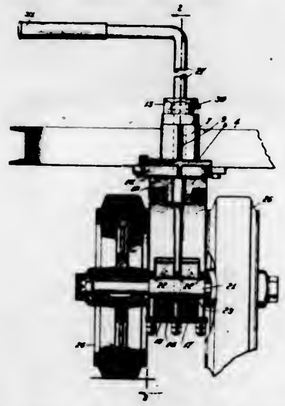
5. A magneto coupling including a projecting magneto shaft, a slotted head upon a drive shaft in alinement with said first shaft, a key located in said slotted head and extending to said magneto shaft interior undercut shoulders in the head of said drive shaft, a flange upon said key to seat in said shoulders, and transeverse projections upon said key to engage the sides in the slots of said head, there being an axially disposed spring in said head pressing upon the extremity of said key, and a projection upon said key into aforesaid magneto shaft.

1,391,778. STOVE OR RANGE. FRANK KESSLER, Sr., Milwaukee, Wis. Filed May 22, 1920. Serial No. 383,508. 2 Claims. (Cl. 126—1.)



1. A stove comprising an inclosing frame having a top heat compartment and a fire box chamber, a fire box movably mounted within said chamber, and means preventing the communication of the heat compartment with the top of the fire box chamber irrespective of the position of said fire box.

1,391,779. TRACTOR. LAWRENCE J. KLINE, Chicago, Ill., assignor to Mercury Manufacturing Company, Chicago, Ill., a Corporation of Illinois. Filed Sept. 27, 1920. Serial No. 412,989. 4 Claims. (Cl. 280—80.)

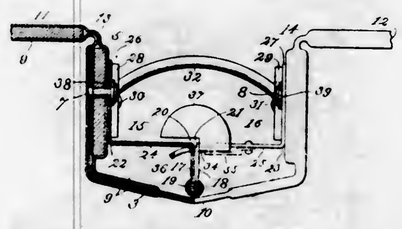


1. In a tractor, the combination of a frame, a yoke journaled in said frame and rotatable about a vertical axis, a semi-elliptical spring below said yoke and connected with end portions of the yoke, said yoke and spring being bowed in opposite directions, supporting wheels located at opposite sides of said spring, an axle connecting said wheels, and means for securing the central portions of said axle and spring together.

1,391,780. LOOSE-LEAF BINDER. ERIK L. KRAG, Chicago, Ill. Filed Nov. 14, 1918. Serial No. 262,512. 2 Claims. (Cl. 129—17.)

2. In a loose-leaf binder, the combination of a pair of rigid cover-supporting members having parallel side portions each adapted to be connected with a cover leaf, each of said rigid cover-supporting members having a rear portion extending toward but spaced apart with respect to the opposite rigid cover-supporting member, a pair of

pivotally connected inner flanged binding members connected with said side portions of said rigid cover-supporting members, flexible covering material upon both sides of and covering said rigid cover-supporting members and



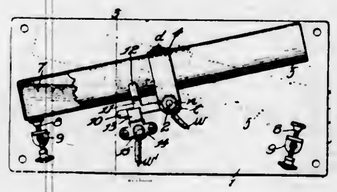
forming inner and outer flexible connecting hinge portions between the rear margins of said rigid cover-supporting members, and means for locking said pivotally connected inner flanged binding members together.

1,391,781. VENTILATOR. JOHN W. LIPPINCOTT, Little Rock, Ark. Filed May 20, 1919. Serial No. 298,500. 2 Claims. (Cl. 98—26.)



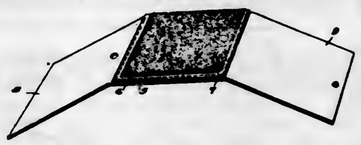
2. In a ventilator for piled vegetables, the combination of a plurality of sections, each section comprising inverted V-shaped end frames, one end frame of a size to telescope within the other, said end frames comprising legs pivoted together near their lower ends, adjustable means to space said legs apart, slats connecting said end frames to form reticulated sides, said sections being capable of arrangement in overlapping relation.

1,391,782. ELECTRIC SWITCH. ALEXANDER MCDANNOLD, Hallandale, Fla. Filed Mar. 15, 1920, Serial No. 366,019. Renewed Apr. 29, 1921. Serial No. 465,499. 1 Claim. (Cl. 200—52.)



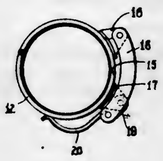
An electric switch comprising a tube hinged at an intermediate point about an axis exterior to the tube to oscillate in a vertical plane, a longitudinally disposed insulated switch arm projecting from said axis parallel to the tube and participating in the oscillations of the tube, fluent contents in the tube gravitating toward one end of the tube and keeping the same weighted at said end, an adjustable bearing against which the weighted end of the tube may rest, and a second adjustable bearing for engaging the opposite end of the tube with a tilting of the tube in the opposite direction due to the shifting of the fluent mass toward said end with a change in the angular position of the tube.

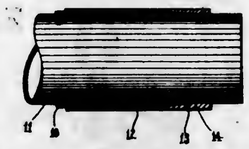
1,391,783. FOLDING BRUSH. WILLIAM R. MCDERMOTT and CHARLES E. SHOWALTER, Seattle, Wash. Filed Apr. 14, 1919. Serial No. 290,066. 1 Claim. (Cl. 15—30.)



A folding brush of the class described comprising a pliable elongated cover embodying middle and end sections, a single brush back secured to the middle section and having laterally directed bristles capable of flexing to lie substantially parallel to the plane of the middle section, said end sections being adapted to be folded onto the bristles and one upon the other to cover said bristles, and means to hold the end sections folded with the bristles retained flexed thereby.

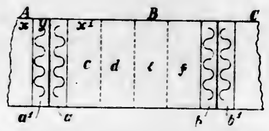
1,391,784. BEVELING AND SEALING CLAMP. CHARLES EDGAR MAYNARD, Northampton, Mass., assignor to The Fisk Rubber Company, Chicopee Falls, Mass., a Corporation of Massachusetts. Filed June 25, 1920, Serial No. 391,689. Renewed Mar. 12, 1921. Serial No. 451,841. 6 Claims. (Cl. 18—43.)





1. The method of producing rubber tubes comprising locating the tube on a mandrel, compressing the ends of the tube against the mandrel by a smooth surface which is tapered toward the mandrel so as to skive the end of the tube, and vulcanizing the tube while so compressed.

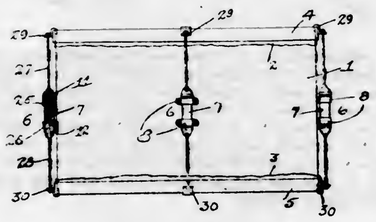
1,391,785. MANUFACTURE OF TAPESTRY OR PRINTED CARPETS, RUGS, TABLE-COVERS, AND THE LIKE. JAMES MORTON, Dentonhill, Carlisle, England. Filed Apr. 4, 1919. Serial No. 287,638. 6 Claims. (Cl. 139—71.)



5. The method of manufacturing tapestry or printed carpets and the like in which the warp yarn for the body design of the carpet is printed separately from the cross border yarn, the printing being effected on a drum small enough to print only one repeat of the body design, the

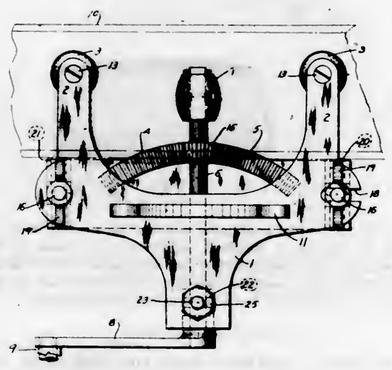
printed cross border yarn and the printed body yarn being set on separate beams and woven in the tapestry loom the yarn from the one beam being put out of action when the yarn from the other beam is in action and vice versa.

1,391,786. DRUM. WESLEY D. NELSON, Chicago, Ill. Filed Oct. 6, 1919. Serial No. 328,803. 3 Claims. (Cl. 84—411.)



1. A drum, a skin therefor, a hoop for placing said skin under tension and means for drawing said hoop, said drawing means including a device fastened to the drum, a rod slidable in said device, a spring interposed between said device and the end of said rod, means at the other end of the rod for engaging said hoop, and symbols on said slidable rod to indicate the degree of tension.

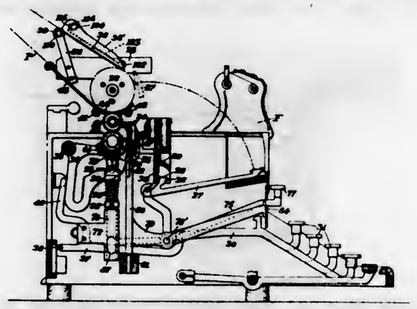
1,391,787. DEVICE FOR STRAIGHTENING SHEET METAL. ELMO P. ORNER, St. Louis, Mo. Filed Sept. 11, 1919. Serial No. 323,200. 3 Claims. (Cl. 153—32.)



2. The combination with a body portion having arms and movable members mounted on said arms of a rack bearing member having hinged connection at one end to the body portion, a removable connection between the other end of said rack bearing member and the body portion, a shaft having a swinging connection with the body portion, a movable member on said shaft, and a pinion arranged on the shaft and coöperating with the rack.

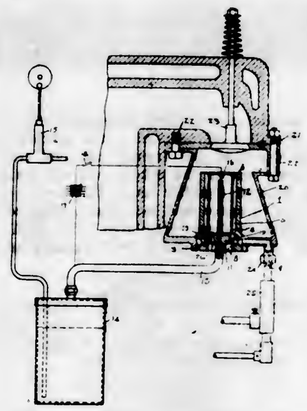
1,391,788. WRITING-MACHINE. ROBERT J. ORR, Brooklyn, N. Y. Filed Sept. 23, 1918. Serial No. 255,326. 32 Claims. (Cl. 197—8.)

1. In a writing machine, the combination with a carriage carrying a platen, and impression making devices, of finger key lever actuated means to advance and retract the platen predetermined distances at will, and means to shift the platen carriage to change the position of the line of



writing on the platen and shift the lever actuated platen advancing and retracting means with the platen carriage for the purpose specified.

1,391,789. APPARATUS FOR VAPORIZING FUEL-OILS AND THE LIKE. SAMUEL PESKIND, Cleveland, Ohio. Filed May 31, 1919. Serial No. 300,802. 2 Claims. (Cl. 48—102.)



1. In apparatus of the character described, the combination of an outer casing provided with a fuel inlet opening and a fuel outlet cap, said casing having an interiorly threaded base portion, a combustion chamber casing having a base threaded into said outer casing and provided with a flared upper end to make a small outlet area between said two casings, outlet apertures in said base of said combustion chamber casing, a burner tube removably mounted through said base of said combustion chamber casing, an electric ignition element mounted in said combustion chamber casing adjacent the outlet end of said burner tube, means for supplying oil to be vaporized between said two casings, and other means for supplying a combustible mixture under pressure to said burner tube.

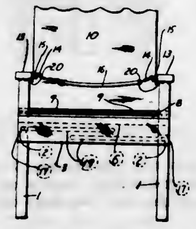
1,391,790. PHOTOGRAPHIC SHUTTER. HENRI RAYMOND PONTON, Paris, France. Filed Feb. 24, 1920. Serial No. 360,856. 5 Claims. (Cl. 95—63.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

5. In a photographic shutter, the combination with a blade mechanism actuated by bulb, time and timed mechanisms, means for modifying the action of the timed mechanism, of a setting mechanism including a rotatable member carrying cams circumferentially spaced around said member to set respectively the actuating mechanisms and the modifying means, the cams controlling the timed mech-



anism and the modifying means acting simultaneously on such mechanism and means, and the cams controlling the bulb and time mechanisms operating at intervals different from each other and from the interval of operation of the cams controlling the timed mechanism and the modifying means.

1,391,791. CHILD'S FOLDABLE TOILET-CHAIR. WILLIAM C. RATHJEN, St. Louis, Mo. Filed Oct. 3, 1919. Serial No. 328,212. 3 Claims. (Cl. 155—148.)



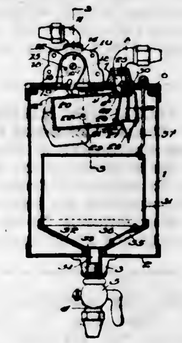
2. In a folding chair of the character described, a seat provided with notches on its opposite sides having depending flanges on two opposite sides thereof and notches in the side edges thereof, a pair of side members having supporting legs to be received in said notches when the chair is unfolded, said flanges on the seat having superposed grooves therein, each of said side members having a pivoted slidable connection in one of said grooves in each of said flanges, whereby said side members and legs may be moved to underlie the seat in superposed relation to each other.

1,391,792. METHOD OF MAKING INSTALLATION-LOOPS FOR ELECTRIC FIXTURES. ADOLPH C. RECKER, Oakville, Conn., assignor to The Chase Companies Inc., Waterbury, Conn., a Corporation. Filed June 29, 1920. Serial No. 392,633. 2 Claims. (Cl. 29—155.5.)



1. A method of producing wrought-metal installation-loops for electric fixtures, consisting in forming a bead near one end of a tubular blank, then drilling the blank at a point adjacent to but separated from one edge of the said bead, then flattening the blank, so as to include that portion of the hole opposite to the bead, then piercing the drilled and flattened portion of the blank so as to enlarge the opening therein, and then trimming the pierced portion of the blank and threading the portion thereof extending beyond the said bead.

1,391,793. VACUUM FEEDING DEVICE FOR CARBURETERS. FRANK V. RISINGER, Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill., a Corporation of Virginia. Filed July 9, 1920. Serial No. 394,988. 7 Claims. (Cl. 158—36.)



1. In a device for the purpose indicated, in combination with a chamber having a suction port, an atmosphere port and a liquid supply inlet; a receptacle for liquid pivotally mounted in said chamber and adapted when empty to be overbalanced in one direction, and when liquid-filled to a predetermined degree to be over-balanced in the other direction, said receptacle having a filling aperture positioned for receiving liquid from the liquid inlet port of the chamber; a valve for closing said liquid inlet port and operating connections thereto from the receptacle for opening said valve upon the tilting of the receptacle; valve means by which said receptacle discharges its liquid contents by being over-balanced thereby and connections from said receptacle for operating the valve of said means.

1,391,794. SUSPENSION APPARATUS. NORMAN F. RUTHERFORD, East Falmouth, Mass. Filed May 16, 1919. Serial No. 297,450. 4 Claims. (Cl. 191—12.)

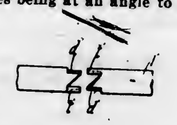


1. An apparatus comprising a source of electrical energy, a transmission line connected thereto, an electrical energy consuming device connected to the end of said line and contacting with the earth thereby requiring contiguity of the end of said line and the earth and a means for insulating said line from earth contact, said means permitting movement of said device anywhere within the area swept by the line and simultaneously operating to take up any slack in said line.

1,391,795. PISTON-RING. LOUIS A. SAFFORD, St. Louis, Mo. Filed Sept. 8, 1919. Serial No. 322,345. 3 Claims. (Cl. 74—109.)

1. A one-piece piston ring comprising a resilient split metal band terminating at each end in a tongue flush with one side of the band, and in a recess offset from the

opposite side, the tongue of one terminal being on the same side as the recess of the opposite terminal and adapted to be received by the recess upon compression of the band to working size, the engaging surfaces of said tongues and recesses being at an angle to the plane of the

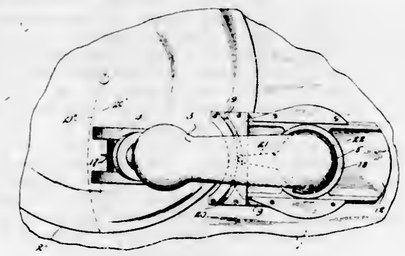


ring, and suitable formations intermediate the recesses and tongues coöperating to form a lap-joint between the bases of the tongues when received by the recesses, said lap-joint being disposed on a diagonal to the sides of the band.

1,391,796. PROTECTIVE MIXTURE FOR HIGH EXPLOSIVES. WALTER T. SCHEELE, Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Filed Dec. 9, 1919. Serial No. 343,574. 7 Claims. (Cl. 52—5.)

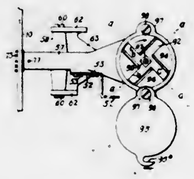
4. A protective composition for high explosives having nitric acid as a base, including 2% of anilin $C_6H_5NH_2$, 96% of carbon disulfid and 2% of hydrocarbon.

1,391,797. SOUND-BOX MOUNTING. CARL SCRABIC, Urbana, Ohio. Filed Mar. 25, 1920. Serial No. 368,495. 6 Claims. (Cl. 274—23.)



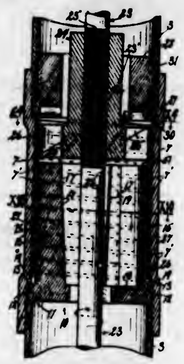
1. In a talking machine, an oscillatory tone arm structure, a sound reproducer carried by the free end of said structure, and means for longitudinally shifting the positions of said tone arm during its horizontal swinging movement across the playing surface of a record, whereby the stylus of said reproducer will be caused to travel a substantially straight radial path across said record.

1,391,798. TYPEWRITING-MACHINE. GEORGE A. SEIB, Ilion, N. Y., assignor to Remington Typewriter Company, Ilion, N. Y., a Corporation of New York. Filed May 1, 1920. Serial No. 378,174. 16 Claims. (Cl. 188—184.)



5. A governor for regulating the speed of a traveling carriage comprising a circular casing, a slidable device within said casing provided with a straight face and a curved face, and a rotary arm provided with a radial face coöperative with said straight face to insure frictional engagement of said curved face with the circular inner wall of said casing.

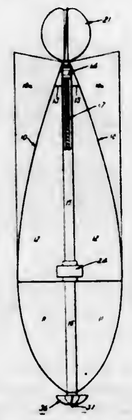
1,391,799. PUMP. GEORGE W. SLOCOMB, Los Angeles, Calif. Filed Sept. 9, 1919. Serial No. 324,231. 7 Claims. (Cl. 253—179.)



1. In a pump the combination with a substantially vertical casing comprising lengths of tubing joined together by couplings, said couplings having threaded portions adapted to connect said lengths, and having shoulders at the inner end of said threaded portions, of a shaft rotatably mounted in the casing; a cylindrical guide in each coupling, said guide surrounding the shaft and being concentric therewith and firmly held between the end of a length of tubing and one of said shoulders and extending upwardly therefrom, radial wings in each of said guides; helical blades connected with the shaft above the guide in each coupling and provided with a downwardly extending sleeve surrounding the shaft and the guide and being concentric therewith, there being an annular recess between the inner periphery of the sleeve and the outer periphery of the guide and also an annular recess between the outer periphery of the sleeve and the inner periphery of the coupling so that liquid supplied by the action of the pump may fill said recesses and hold the sleeve in true axial rotation; a deflector secured above the helical blades in each coupling for preventing a whirling action of the liquid and for guiding it upwardly; said deflector having a threaded flanged end which is held between the end of a length of tubing and the other of said shoulders; a helical channel on the inner surface of each coupling, said helical channel leading in the direction of rotation in order that sediment may be expelled from the casing by the action of the liquid and in order that the efficiency of the pump may be maintained; and means for rotating the shaft.

1,391,800. WATER-BOMB. FLOYD SMITH, San Diego, Calif. Filed Nov. 1, 1917. Serial No. 199,679. 16 Claims. (Cl. 102—2$_4$)

13. In a bomb, the combination of a charge holding body, a detonator for the body, firing means for the detonator, the detonator and firing means being normally out of operative relation to each other, means actuated by passage of the bomb through a fluid to positively put the detonator and firing means into operative relation



to each other, and means to cause operation of the firing means.

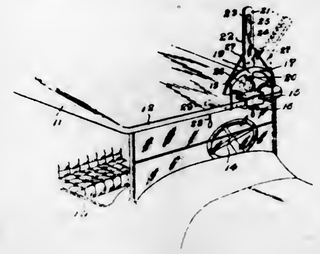
1,391,801. SAFETY DEVICE FOR DELIVERY OF MILK AND OTHER ARTICLES. RAYMOND A. SMITH, Philadelphia, Pa. Filed Apr. 11, 1921. Serial No. 460,257. 4 Claims. (Cl. 232—41.)

1. A device for delivering articles to houses, comprising a door section or panel, provided with means for supporting the articles, said section or panel being centrally pivoted to swing on a vertical axis, the panel and adjacent door sections being provided with coöperating safety catches.

1,391,802. LAMP-BRACKET FOR AUTOMOBILE DIRECTION-INDICATORS. JOSEPH I. STANFA, Erie, Pa. Filed Aug. 24, 1917. Serial No. 187,976. 3 Claims. (Cl. 240—57.)

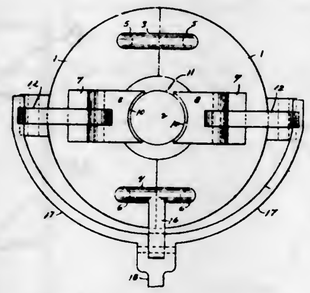
3. A lamp bracket for automobile direction indicators comprising a central tubular flexible section having its center cut away, the metal of which forms attaching ears, end sections comprising flexible tubular members telescoping within the central section, means carried by the central section for holding the end sections in their adjusted position within the central section, and means carried by the central and end sections for supporting a lamp, whereby the support can be extended to bring the end sections close to the side of the automobile and whereby the support may be bent to conform to the shape of the body of the automobile and lie close thereto.

1,391,803. SIGNAL DEVICE FOR MOTOR-VEHICLES. BUELL STANLEY, Washington, D. C. Filed Nov. 20, 1920. Serial No. 425,408. 2 Claims. (Cl. 116—52.)



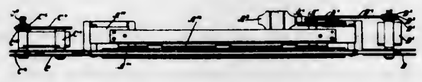
1. In a device of the character described the combination of a vehicle top front ledge, a clamp support engaged thereon, a direction indicator on the support movable in a vertical plane transverse to the vehicle, said indicator being so positioned on the bracket as to set over the top, and operating means for the indicator.

1,391,804. PIPE-GRIPPING DEVICE. BUFORD J. STEEN, Goose Creek, Tex. Filed Mar. 5, 1919. Serial No. 280,694. Renewed July 26, 1921. Serial No. 487,722. 4 Claims. (Cl. 24—249.)



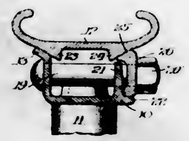
1. A device of the character described, including a block formed of two sections and having a central opening to receive a pipe, a vertical slot in each section, oppositely disposed dogs pivoted in said slots and having serrated faces, and a manually operated means for forcing said dogs into engagement with said pipe.

1,391,805. MACHINE FOR THE CONTINUOUS VULCANIZATION OF BANDS OR BELTS. LAWRENCE A. SUBERS, Lakewood, Ohio. Filed Dec. 13, 1920. Serial No. 430,442. 10 Claims. (Cl. 18—6.)



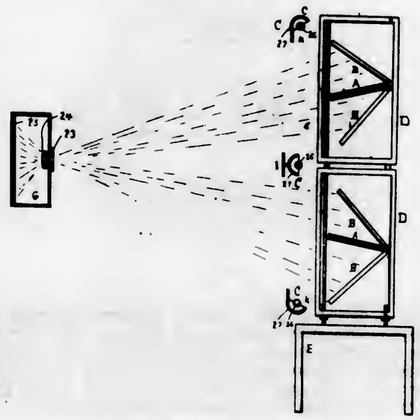
1. In a machine for continuously applying heat and pressure to material passing therethrough, the combination of complementary conveyer chains adapted to receive the material to be treated, means for moving said chains in the same direction and at the same speed, means for continuously heating said chains, and means for pressing said chains yieldingly together to compress and heat the material between said chains during movement of the latter.

1,391,806. **DEMOUNTABLE-RIM CONSTRUCTION.** JOSEPH G. SWAIN, Akron, Ohio, assignor to The Firestone Steel Products Company, Akron, Ohio, a Corporation of Ohio. Filed Jan. 25, 1919. Serial No. 273,064. 4 Claims. (Cl. 301—19.)



1. A construction for wheels and demountable rims, comprising a fixed rim, two radially extending flanges on said fixed rim, a bearing seat on the outer edge of one of said flanges, a demountable rim, one side of said demountable rim resting on said seat, means for holding the rim on the seat comprising a locking member and a bolt passing through said flanges and said locking member, the inner edge of said locking member bearing against the fixed rim and means on said bolt to force the locking member toward the fixed rim to hold the demountable rim on its seat.

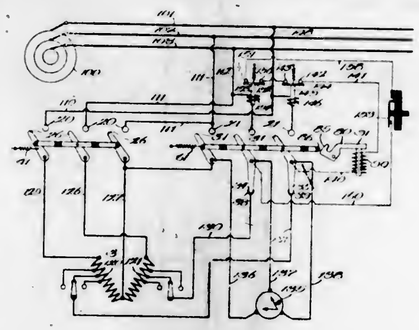
1,391,807. **IMAGE PRODUCING OR RECORDING APPARATUS.** WILLIAM E. SWALM and WILLIAM C. BRYAN, Los Angeles, Calif. Filed Dec. 9, 1914, Serial No. 876,219. Renewed July 20, 1921. Serial No. 486,187. 5 Claims. (Cl. 88—24.)



1. The combination with angularly-related image reflecting members, of an approximately transparent object adapted to be reflected, means for holding the object in position to be reflected, and means for illuminating the object causing light rays to pass therethrough.

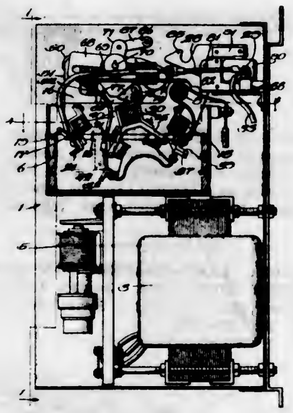
1,391,808. **SYSTEM OF MOTOR CONTROL.** HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignor to Industrial Controller Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed July 25, 1918, Serial No. 246,635. Divided and this application filed Apr. 14, 1920. Serial No. 373,771. 4 Claims. (Cl. 172—179.)

1. An alternating current compensator having a starting switch and a running switch, both tending to open, an auto-transformer, a starting circuit including said transformer and starting switch, a running circuit including said running switch, a detent for holding the starting switch closed, a second detent for holding the running switch closed, and means for tripping the first detent and thereby permitting the starting switch



to open when the operating handle approaches initial position during its backward movement.

1,391,809. **SWITCH-MOUNTING.** HERMON L. VAN VALKENBURG, Milwaukee, Wis., assignor to Industrial Controller Company, Milwaukee, Wis., a Corporation of Wisconsin. Original application filed July 25, 1918, Serial No. 246,635. Divided and this application filed Apr. 26, 1920. Serial No. 376,473. 8 Claims. (Cl. 200—6.)

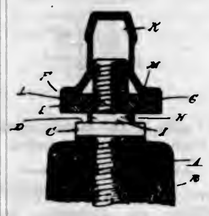


4. A motor starter having a starting switch, a running switch, an oil tank, a rock shaft axially fixed relatively to said tank, a frame pivotally mounted on said shaft and carrying the switches, means actuated by said shaft for opening and closing the switches, and an operating handle for rocking said shaft.

1,391,810. **ELECTRIC TERMINAL.** RALPH B. VESSEY and ALBERT SCHMIDT, Flint, Mich., assignors to Champion Ignition Company, Flint, Mich., a Corporation of Michigan. Filed Jan. 17, 1919. Serial No. 271,624. 4 Claims. (Cl. 173—259.)

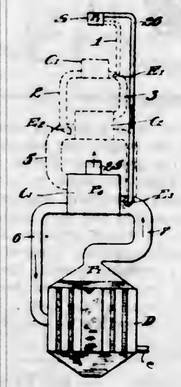
4. An electric terminal, comprising an insulated threaded stud, an annular collar on said stud forming a seat for a connector, a nut engaging the threaded stud for

exerting a clamping pressure upon an eye connector when seated on said bearing, and a shoulder on said stud



spaced from said bearing by less than the thickness of said eye connector for limiting the inward movement of said nut to form a narrow groove.

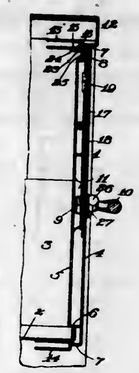
1,391,811. **STEAM SYSTEM FOR MANUFACTURING SALT AND THE LIKE.** CHARLES LEWIS WEIL, Port Huron, Mich.; Ella S. Weil administratrix of said Charles Lewis Weil, deceased. Filed Nov. 23, 1918. Serial No. 263,895. 15 Claims. (Cl. 127—16.)



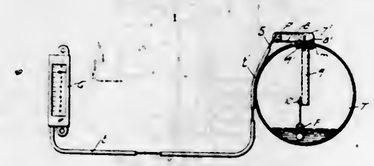
10. In manufacturing salt and the like by evaporation in a closed evaporator, where live steam is available at a relatively high pressure and exhaust steam is produced in the evaporator at a lower pressure, the method of controlling the evaporation comprising passing the live steam and exhaust steam in opposite directions through a series of steam loops so as progressively to lower the pressure of the live steam in one direction and progressively to raise the pressure of the exhaust steam in the other direction in a plurality of stages, and feeding steam to the evaporator from one of said stages at a pressure intermediate the pressures of the live steam and exhaust steam.

1,391,812. **LATCH FOR FURNITURE-DRAWERS.** ALBERT T. WEISS, Rochester, N. Y., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y., a Corporation of New York. Filed Dec. 18, 1913. Serial No. 807,489. 2 Claims. (Cl. 292—175.)

1. The combination with a drawer casing provided with a keeper on one wall thereof and a drawer in said chamber having a front wall embodying a front plate, of a latch bolt movable vertically on said drawer wall in rear of the front plate and adapted to coöperate with the keeper, an operating member on the latch bolt projecting through the front plate and a horizontally disposed rigid drawer pull on the extension of the front plate arranged to span the operating member but independent thereof.



1,391,813. **GASOLENE-GAGE.** JULIUS WILHELM, St. Louis, Mo. Filed Mar. 3, 1921. Serial No. 449,375. 1 Claim. (Cl. 73—82.)

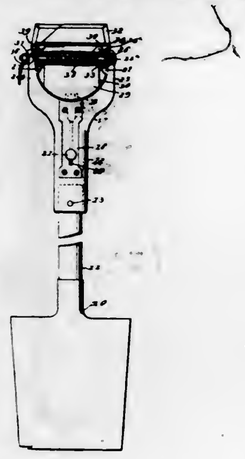


In combination with a fluid tank, a level gage mounted at a point removed from said tank, said gage comprising a housing having a scale plate extending from one wall thereof and spaced from the opposite wall, a weight suspended behind the scale plate and having a pointer operating through said space and extending over the scale plate, a pulley within the housing, a cord traversing said pulley and having one of its ends secured to the weight, means operable by the fluid within the tank for actuating the gage, said means comprising a tube mounted within the tank, a rod traversing the tube, a lever mounted on said tube and terminating in a float, a connecting link between the lever and rod, and the aforesaid cord having its other end secured to said rod.

1,391,814. **COMBINATION FOUNDRY-TOOL.** HARRY E. WOLFE, Hastings, Mich. Filed Apr. 20, 1921. Serial No. 462,867. 4 Claims. (Cl. 294—51.)

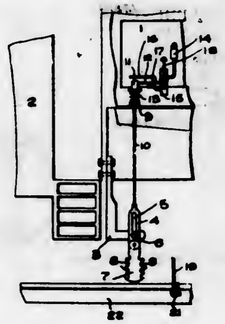
1. In a combined shovel and tamping tool, a shovel having a handle, a hollow shank applied to the handle of the shovel and terminating in diverging arms, a latch slidable with relation to the arms and adapted to

project therebetween, a tamping head rotatably mounted between the said arms and having means for engaging



the latch, and a resilient member for turning the tamping head on its pivot.

1,391,815. RAILWAY SAFETY-SIGNAL. PHILIP ADAMS, North Bay, Ontario, Canada. Filed Aug. 23, 1920. Serial No. 405,439. 3 Claims. (Cl. 246—200.)



1. In a railway safety signal, the combination with a bracket depending from the side of the cab of a locomotive, of a link pivoted thereto, said link capable of vertical movement, a depending portion hinged to the lower end of the link, said depending portion having serrated forward and rear edges, an emergency warning signal on the locomotive, means on the track for engaging the teeth of the depending member thereby pulling the link downwardly, and means connected to the link for operating the warning signal when the link is pulled downwardly.

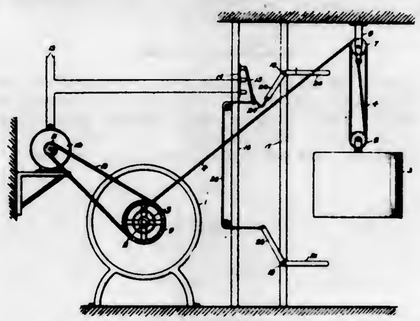
1,391,816. PISTON-RING. JOHN AREND, Mankato, Minn. Filed July 29, 1920. Serial No. 399,846. 2 Claims. (Cl. 74—109.)

1. In a piston ring, a series of coacting ring section, comprising a central ring having its top and bottom walls converging outwardly and terminating short of the point of intersection, an upper ring section having an upper straight side and beveled lower side conforming approximately to the bevel of the central section and having its outer face and beveled edge intersecting to produce an angular lower edge, a lower ring section having a straight lower side and a beveled upper side coacting



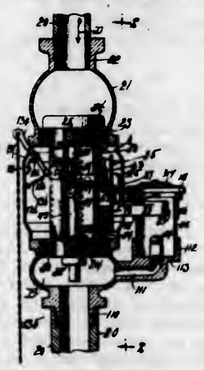
with the beveled side of the middle section, and having its outer upper edge downwardly beveled.

1,391,817. REWINDING APPARATUS FOR GAS-MACHINE MOTORS. ES. ATHERTON, Maquoketa, Iowa. Filed Apr. 8, 1920. Serial No. 372,273. 2 Claims. Cl. 185—33.)



1. The combination with a winding drum, of a weight, a cable supporting the weight and adapted to wind upon and unwind from the drum, an electric motor geared to the drum for operating the same to wind the cable on the drum, bell cranks pivotally supported respectively above and below the weight and each comprising angularly disposed arms, one of which projects into the path of the weight, an electric switch controlling the electric motor and having a movable member that has a support independent of the crank arms, and flexible cables connected to the other arms of the bell cranks and to the movable member of the switch to respectively move it in opposite directions.

1,391,818. AUTOMATIC VALVE-CLOSER. AURELIO BARCHIESI, Jersey City, N. J., assignor of two-fifths to Angelo Baratta, Jersey City, N. J., and one-fifth to Giovanni Squarcialupi, New York, N. Y. Filed Feb. 20, 1920. Serial No. 360,225. 6 Claims. (Cl. 67—117.)



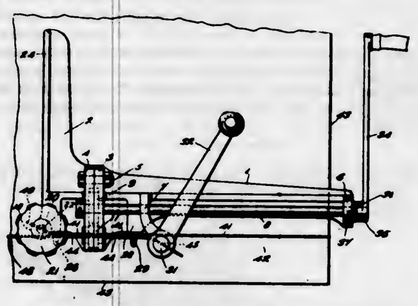
1. In an automatic valve closer the combination of a valve for a gas conduit, a stem for the valve, means to manually raise the valve, a spring actuated toe normally locking said stem in position, means to heat the spring of said toe and thereby unlock it from the stem, a second spring actuated toe locking with said stem when the spring thereof is heated and releasing the said valve stem when the latter spring is at its normal temperature.

1,391,819. CAR-REPLACER. THOMAS HENRY BELLOWS, Walla Walla, Wash. Filed Feb. 5, 1921. Serial No. 442,792. 4 Claims. (Cl. 104—265.)



1. In a car replacer, a body portion, said body portion having a cut out portion at either end thereof providing arms, a track section having a tongue, said tongue adapted to be disposed between the arms of the body portion at either end thereof, each of said arms having a notch formed therein, means carried by the track section and adapted to be positioned within the notches of the arms for restricting movement of the track sections with respect to the body portion, and means passing through the body and track sections for securing the body portion and track section against movement.

1,391,820. PORTABLE WIRE-TYING MACHINE. WILLIAM M. BOENNING, Manitowoc, Wis., assignor to Alec J. Gerrard, Chicago, Ill. Continuation of application Serial No. 250,685, filed Aug. 20, 1918. This application filed June 5, 1920. Serial No. 386,692. 15 Claims. (Cl. 140—93.)



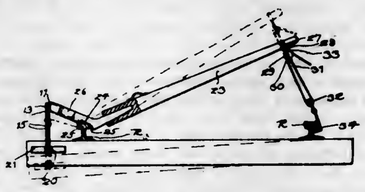
1. In a wire tying machine, the combination of a frame having a flat surfaced bottom adapted to contact with the top of the box to be wired; an extension of said frame adapted to overlie the edge of said box and provided with an operating handle; a second extension of said frame disposed at an angle to said first named extension and adapted to aid in steadying the machine during the wire twisting operation; means for putting the wire under tension; and means operated by said handle adapted to twist together two lights of said wire while under tension, substantially as described.

1,391,821. FISH-COOKER. ARTHUR SCOVILL DAVIES, Santa Cruz, Calif. Filed Dec. 26, 1918. Serial No. 268,359. 3 Claims. (Cl. 126—41.)

1. A fish cooker, comprising a suitable oven, with upper entrance and exit openings, having a pair of rails projecting therethrough, and trap doors providing closures; lower smaller openings, with a pair of rails projecting therethrough; an endless sprocket-driven wire mesh fish conveyer, with cross rods bracing the conveyer against sagging, and sliding on the various rods for support; a partition beneath which there is a suitable heat producing means, of absorbent material to catch oil drippings, slightly spaced from the oven sides to provide heat passages; and supporting means for the partition, including a pipe coil which contains water for the conduction of heat to all corners and to provide an even temperature distribution.

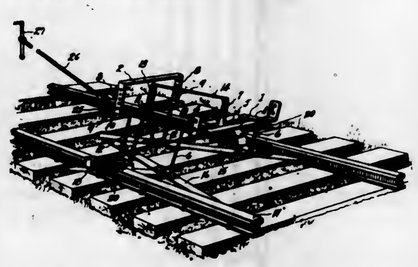


1,391,822. TIE LIFTER AND HOLDER. ROBERT EVANS, Othello, Wash. Filed Feb. 26, 1921. Serial No. 447,995. 2 Claims. (Cl. 254—121.)



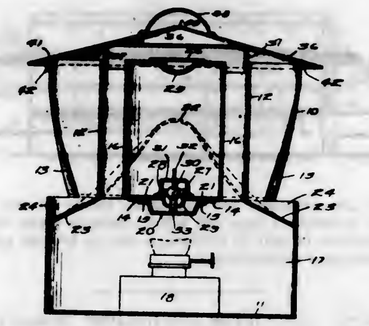
1. In a device of the type described, a lever adapted adjacent one end for engagement with a rail, toggle tongs carried by said end for engaging a tie to be elevated and means for connecting the opposite end of the lever and the other rail of the track for elevating the first named end of the lever and holding said end in elevated position, comprising a rail engaging hook, a block and tackle connection between said hook and the last named end of the lever, and means associated with the flexible element of said block and tackle normally preventing movement of the flexible element in a direction permitting separation of the blocks thereof.

1,391,823. WEED-CUTTER. MERTON W. FLEET, National, Wash. Filed June 15, 1920. Serial No. 389,216. 3 Claims. (Cl. 56—230.)



2. The combination with frame members of a railway car or the like mounted to travel upon parallel rails, of a weed cutting device comprising a pair of rearwardly converging cutting blades suspended beneath said frame members to operate between the said rails, laterally extending blades fixed to the first named blades to overlie and extend beyond the said rails and means operable from the car for moving the blades to and from cutting position.

1,391,824. WATERER AND FEEDER. HENRY A. FOSTER, Des Moines, Iowa. Filed Mar. 25, 1921. Serial No. 455,687. 2 Claims. (Cl. 119—52.)



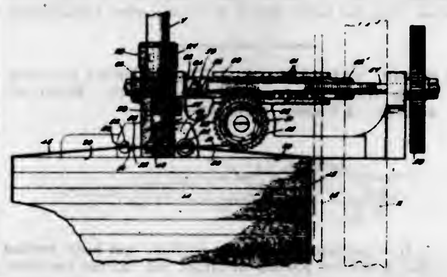
1. In a device of the class described, an outer cylindrical casing, an inner casing spaced from said outer casing and terminating short of the lower end of said outer casing, supporting members mounted in said outer casing substantially at the lower edge of the inner casing, a tank arranged to rest on said supporting members within the inner casing and spaced therefrom, a water trough arranged below said inner casing and tank and projecting to the outer casing, said outer casing having openings for permitting access to the ends of said trough, a partition member between the outer and inner casing, having raised portions above the ends of said trough and lower portions at points between the ends of the trough, said lower portions forming the bottom of troughs for feed, the walls of said outer casing being cut and forced inwardly above the lower parts of said partition to provide access to such lower parts, said lower parts of said partition being inclined downwardly and outwardly and terminating at their outer edges below the points where said outer casing is cut.

1,391,825. APPARATUS FOR DEVOLATILIZING COAL, WOOD, SHALES, &c. CLAUDE M. GARLAND, Chicago, Ill. Filed Mar. 3, 1919. Serial No. 280,294. 15 Claims. (Cl. 202—9.)



1. In coking apparatus of the type described a heating chamber, a retort extending through the said heating chamber and a plurality of parallel partitions vertically disposed within the said retort.

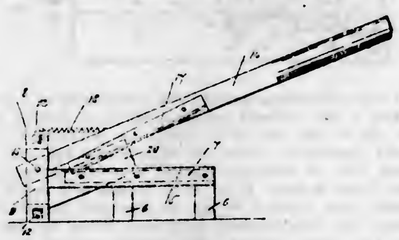
1,391,826. AUTOMATIC WIRE STRETCHING AND TWISTING MACHINE. ALEC J. GERRARD and PARVIN WRIGHT, Chicago, Ill. Filed Oct. 30, 1920. Serial No. 420,739. 10 Claims. (Cl. 100—31.)



1. In a wire tying machine the combination of means for compressing a bundle; means for holding one end of wire while being passed around the compressed bundle; means for automatically tensioning said wire to a predetermined degree after passing the same around the compressed bundle; and means for twisting together two bights of said wire while under tension, substantially as described.

10. In a wire tying machine the combination of a standard; a bundle supporting means adjustable up and down said standard; a wire tensioning and twisting mechanism; a supporting frame for said mechanism having a flat bottom adapted to rest on and compress a package carried by said supporting means; means associated with said mechanism for holding one end of the wire while it is being tensioned; means associated with said mechanism for automatically tensioning the wire to a predetermined degree; means associated with said mechanism for severing the other end of the wire after the twisting operation; means for moving said wire tensioning and twisting mechanism and said frame to cause the bottom of the latter to compress said package; and automatic means to lock said flat bottom in its compressing position, substantially as described.

1,391,827. SHEARS. OSCAR ALEXANDER GOETZE, Golden, Colo. Filed Sept. 20, 1920. Serial No. 411,407. 1 Claim. (Cl. 164—41.)



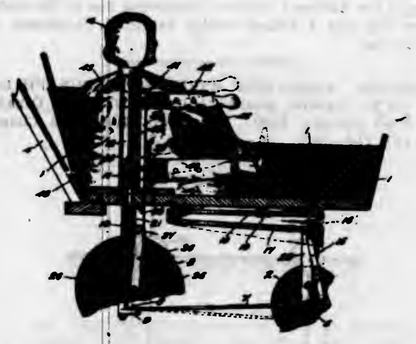
A shears for cutting soft metal, comprising a stationary platen, a stationary blade secured to the rear edge of the platen and having a sharp cutting edge, an upright secured to one end of the platen, a bar having its end portions secured against the rear side of the upright, a space being formed between the middle portions of the said upright and bar, a pivot pin having its end portions supported in the middle parts of the said upright and bar, a cutter lever engaging with the middle part of the pivot pin and working in the said space, a guide arm for the cutter lever secured at one end to the said bar adjacent to the lever pivot and projecting laterally from the said bar and parallel to the cutter lever and bearing against its rear side and preventing the cutter lever from being pressed rearwardly away from the stationary blade, and a blade secured to the front side of the cutter bar and having a sharp cutting edge which cuts off the soft metal against the sharp cutting edge of the stationary blade.

1,391,828. CLAMP. FREDERICK HACHMANN, St. Louis, Mo., assignor to William H. Gregg, trustee, St. Louis, Mo. Filed Mar. 15, 1920. Serial No. 365,938. Renewed May 11, 1921. Serial No. 468,728. 3 Claims. (Cl. 144—304.)



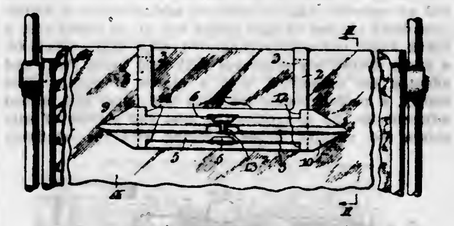
1. A clamp comprising a yoke having oppositely disposed thrust-receiving arms, one of said arms being in the form of a channel having a web and marginal flanges extending therefrom, a threaded thrust-receiving tube between said flanges, said web having an extended end portion turned downwardly and backwardly to form a seat for one end of said thrust-receiving tube, and a clamping screw mounted in said thrust-receiving tube.

1,391,829. FIGURE WHEELED TOY. RUDOLPH C. HARTLEB and THOMAS J. LEVEY, Baltimore, Md., assignors to The Cambridge Mechanical Toy Company, Cambridge, Md., a Corporation of Maryland. Filed Sept. 28, 1920. Serial No. 413,379. 8 Claims. (Cl. 46—45.)



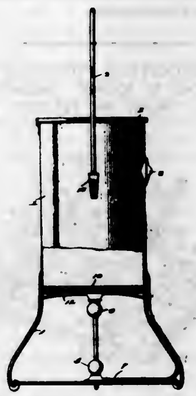
1. In a toy the combination of a support; front wheels and rear wheels provided with axles turning therewith for carrying said support; a figure mounted on said support having arms and legs, and a head adapted to oscillate from side to side; a vertically disposed member rigid with said head and provided with a crank; a second crank, carried by the axle of said front wheels; a connection between said cranks for oscillating said head as said front axle revolves; a third crank, carried by the rear axle; and a connection between said third crank and a leg and an arm for moving the latter up and down as said crank revolves; substantially as described.

1,391,830. SIGNALING DEVICE FOR AUTOMOBILES. WILLIAM L. HEWES, Springfield, Mass. Filed July 24, 1920. Serial No. 398,718. 5 Claims. (Cl. 116—30.)



4. A device of the character described comprising a mounting plate with means for mounting it at the rear of the wind shield of an automobile, toward the driver overhanging guide and retaining means outstanding rearward from said plate at the center thereof, and a signaling member at the rear of said plate slidable in said guide means so that either end thereof may be projected beyond the corresponding end of the plate to an extent limited by engagement of the other end thereof with said guide means.

1,391,831. ELECTRIC LANTERN. LOUIS AUGUST HORNBURG, Omaha, Nebr. Filed Mar. 25, 1921. Serial No. 455,678. 3 Claims. (Cl. 240—8.5.)

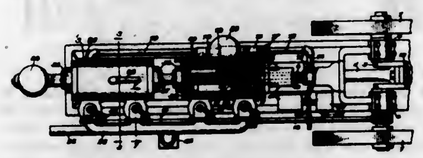


3. A self contained electric lantern, comprising a container adapted to hold a cell or battery, an open wire frame attached to its lower end, a pair of lamps of different colors supported in said frame and arranged one above the other, a reflector attached to the bottom of the container above the lamps and adapted to serve each of the lights, electrical connection for supplying energy from said battery to said lamps, and a switch controlling said connections for opening the lamp circuits or independently closing the same.

1,391,832. INTERNAL-COMBUSTION ENGINE. LANSON B. JOYNER, Washington, La. Filed Mar. 29, 1920. Serial No. 369,762. 2 Claims. (Cl. 123—57.)

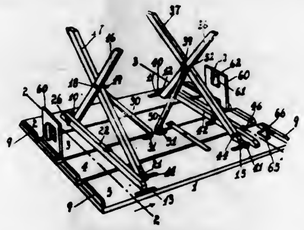
2. In an internal combustion engine, a pair of horizontally disposed co-axially alined water jacketed cylinders, a hollow piston rod extending through said cylinders and having its ends projecting beyond the remote ends thereof, a hollow piston rigidly mounted on said piston rod within each cylinder and arranged for recipro-

cation therein, said piston rod being provided with closures in the portions of its inner bore encompassed by said pistons and with passages communicating with the cavity in each of said pistons and with the piston rod at opposite sides of each of said closures, a hollow cross-head carried by said piston rod at its outlet end, a crank shaft operatively connected with said cross-head, a pump operatively connected with said crank shaft and adapted for connection with a source of cooling fluid supply, a conduit connecting with said pump and formed adjacent its end to receive the inlet end portion of said piston rod, packing means engaging with the relatively



moving portions of said piston rod and said conduit for preventing loss of the cooling fluid passing therethrough, a second conduit connecting said hollow cross-head with the water jackets of said cylinders, said last named conduit comprising telescopingly arranged sections having packing means engaging the relatively moving sections thereof to prevent loss of the cooling fluid passing therethrough while permitting free functional movement of the piston rod and the section of the last named conduit joined thereto, and a conduit communicating with said water jackets and adapted for connection with the source of cooling fluid supply.

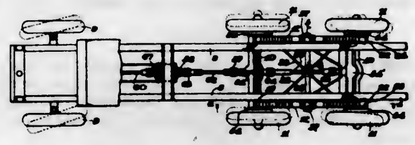
1,391,833. COMBINATION FOLDABLE TABLE AND BENCH. RALPH L. KAISER, Oakland, Calif. Filed Nov. 10, 1920. Serial No. 423,149. 1 Claim. (Cl. 45—116.)



A foldable table including a plurality of leaves hinged together, two pairs of legs, each pair being pivoted together, cleats on the upper end of each of said legs, straps secured to the underside of the outer leaves into which said cleats are introduced to mount the table leaves unfolded on said legs, two bars, a cleat on one end of each bar, a strap on the underside of each of the outer leaves to receive a cleat on one bar with said bars against the underside of said leaves, each of said bars having a hole in its other end, a bolt extending through the upper end of one of the legs of each pair and through said holes, and nuts screwing on the end of said bolts.

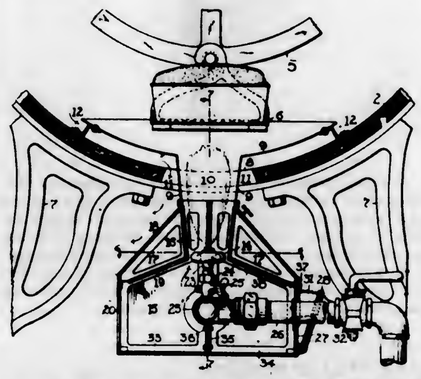
1,391,834. MOTOR-DRIVEN VEHICLE. RUDOLPH E. KERLIN, Cudahy, Wis. Filed Oct. 15, 1920. Serial No. 417,113. 10 Claims. (Cl. 180—22.)

1. In a vehicle, the combination with the vehicle frame, of a wheeled structure supporting said frame comprising a front wheeled truck having a free lateral movement and a rear wheeled truck having a swinging movement relative to said frame, supporting springs operatively connected to said wheeled trucks and to said frame, and a connection between said wheeled trucks controlling the



swinging movement of the rear truck on the lateral movement of the front truck.

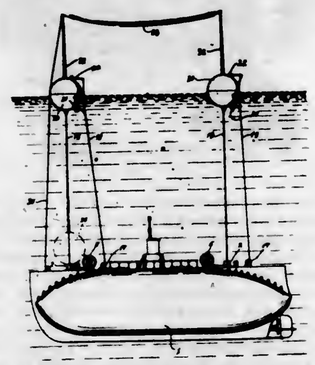
1,391,835. BAKING-OVEN. HARRY E. KERR, Cleveland, Ohio, assignor to The Federal System of Bakeries of America, Davenport, Iowa, a Corporation of Delaware. Filed Dec. 22, 1919. Serial No. 346,647. 18 Claims. (Cl. 107—59.)



1. A baking oven having an upwardly flaring combustion flue extending into its bottom, a gaseous fuel burner within the reduced mouth of said flue, and an inclosed frame for said burner having an air intake.

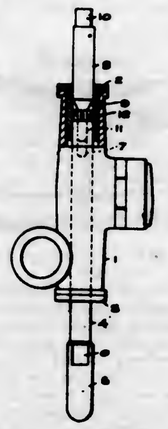
17. A heating appliance for a baking oven, comprising a box having a vertical combustion flue at its center and top and a hinged section extending lengthwise of said flue.

1,391,836. SUBMARINE WIRELESS-TELEGRAPH DEVICE. GABRIEL KLEM, Gardenton, Manitoba, Canada. Filed Oct. 25, 1920. Serial No. 419,219. 3 Claims. (Cl. 114—16.)



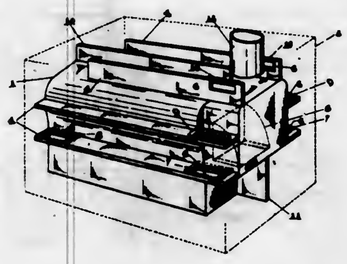
1. A device of the class described comprising floats adapted to be raised or lowered, means on a submarine boat for raising or lowering said floats, means for filling or emptying said floats, one of said floats being situated at each end of said boat, staffs extending from the upper surface of said floats, and an antenna stretched between said staffs.

1,391,837. BUSHING REMOVER. HERMAN KONOPASKA, Paris, Ontario, Canada. Filed May 3, 1920. Serial No. 378,641. 5 Claims. (Cl. 29—88.2.)



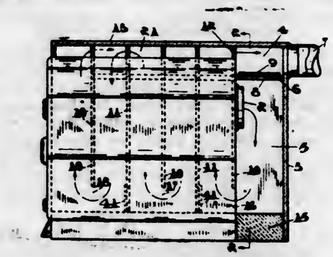
1. A bushing remover comprising a rod adapted to extend through a bushing, a split ring on said rod, and means operating against the opposite sides of the ring for expanding the split ring against the interior of said bushing.

1,391,838. HEATING APPARATUS. ARTHUR J. LA FAY, Toronto, Ontario, Canada, assignor of one-half to Hugh R. Tudhope, Orillia, Ontario, Canada. Filed Mar. 25, 1919. Serial No. 284,962. 5 Claims. (Cl. 122—494.)



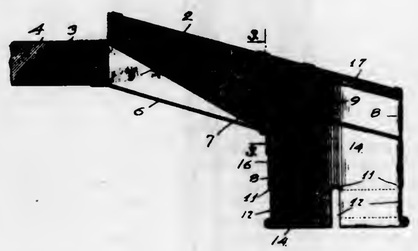
3. The combination with a fluid heating furnace of the horizontal type having a smoke exit at one end of an external casing spaced therefrom at the sides, top and smoke outlet end; longitudinal baffle plates dividing the space between the sides and top of the furnace and the external casing into a plurality of communicating flues; a depending flue with which the smoke collar communicates extending down to the level of the lower baffle plates; a smoke outlet leading from the uppermost flue; and dampers whereby the products of combustion may be allowed to pass either substantially directly to the smoke outlet or caused to pass in zig-zag fashion through two or more flues at each side of the furnace to the smoke outlet; a partition extending from the end of the furnace to the end of the external casing, below the depending flue, dividing the lowermost flues from one another, and a partition extending along the top of the furnace dividing the uppermost flue.

1,391,839. HEATING APPARATUS. ARTHUR JOSEPH LA FAY, Toronto, Ontario, Canada, assignor of one-half to Hugh R. Tudhope, Orillia, Ontario, Canada. Filed Aug. 16, 1920. Serial No. 403,974. 3 Claims. (Cl. 122—225.)



1. The combination with a fluid heating furnace of the horizontal type provided with internal flues for the products of combustion and spaces for the fluid to be heated externally bounded by the casing of the furnace, of an external casing spaced from the sides and top of the furnace, a smoke outlet at the end of the external casing, depending baffles dividing the space between the furnace and external casing into a plurality of vertical flues, the upper part of said baffles extending over the top of the furnace casing, a plurality of baffles alternately disposed between the first mentioned baffles, said last mentioned baffles, extending only partly across the top of the furnace casing and forming openings communicating with the flue spaces between the said baffle plates, angularly disposed walls extending between the top of the furnace casing and the top of the external casing, the said walls forming triangular shaped return flues communicating with the vertical flues, a chamber opening into the smoke outlet, a jacket adapted for the reception of the products of combustion from the furnace, a damper controlling the communication between the chamber and jacket, said chamber communicating with the return flues and smoke outlet, the upper part of the first mentioned baffles adapted to direct the products of combustion from the jacket to the said return flues and the smoke outlet.

1,391,840. COIN RECEIVING AND DELIVERING DEVICE. VIVIAN A. LEACH, San Francisco, Calif. Filed Oct. 22, 1919. Serial No. 332,846. 2 Claims. (Cl. 133—1.)



1. As an article of manufacture, a coin receiving and delivering device comprising an inclined chute adapted for engagement to the edge of a shelf or the like for receiving coins; a housing mounted upon the lower end

of the chute having an orifice connecting the interior of the housing with the chute; an inner housing slidably mounted within the first mentioned housing, and having an orifice adapted to register with the first mentioned orifice when said inner housing is raised, said inner housing being open at both ends thereof and provided with a plurality of longitudinally disposed slots in the sides thereof; inwardly turned lugs formed upon the bottom of the outer housing, and adapted to engage the slots in the inner housing for limiting the downward movement of said inner housing, whereby the housing orifices are normally retained in a non-registered relation.

2. As an article of manufacture a coin receiving and delivering device comprising an inclined chute adapted at the upper end thereof for engagement with a shelf or the like, said chute being offset longitudinally along a median line whereby coins on either side of said line may be held in different planes to prevent binding of said coins within the chute; a housing mounted upon the lower end of the chute and having an orifice for the passage of coins from said chute to said housing.

1,391,841. LANDING-NET. FRANK R. LEWIS, San Francisco, Calif. Filed July 30, 1919. Serial No. 314,216. 7 Claims. (Cl. 43—12.)



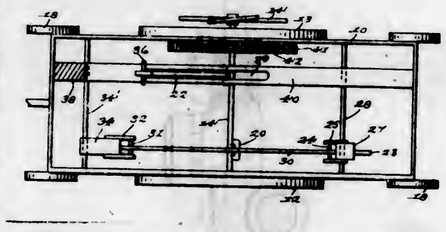
1. In a device of the character described, a rigid handle, a landing net hoop freely pivoted to one end of said handle, means for bringing the hoop and handle into folded interlocked relation to each other and means embodied within the hoop structure for frictionally engaging the handle and holding the hoop and handle in their unfolded positions to each other.

1,391,842. BLADE-HOLDER. ROY L. LIGHTFOOT, San Antonio, Tex. Filed May 9, 1919. Serial No. 295,995. 1 Claim. (Cl. 30—25.)



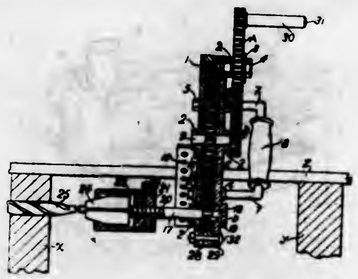
A blade holder including a handle formed of grips spaced apart, said grips terminating in opposing jaws which are connected at their outer extremities and spaced apart to receive a blade between them, a shaft having a swiveling connection with one grip and being threaded through the other, a disk on said shaft whereby the shaft may be turned and said jaws thereby clamped against and released from the blade between them.

1,391,843. FIGURE WHEELED TOY. ANTONI MARKIEWICZ, Detroit, Mich. Filed Mar. 5, 1921. Serial No. 449,992. 2 Claims. (Cl. 46—45.)



1. A toy of the character described, comprising a wheeled frame, a shaft rotatably arranged in said frame, a pair of large wheels on said shaft, and a toothed wheel on said shaft, a link on said shaft, a toy figure, a link connection pivotally secured to said link and connecting it with said toy figure, an inclined saw pivotally secured to the opposite end of said link, a toy figure adapted to be operated by said inclined saw upon the rotation of said shaft, a horizontal, slotted saw adapted to be operated by said first named toy figure upon its operation by said link connection, a second toy figure at the opposite end of said horizontal saw, a wind-mill, and a second gear meshing with said first named gear for operating said wind-mill when the toy is trunneled along a floor for the operation of said toy figures and saws.

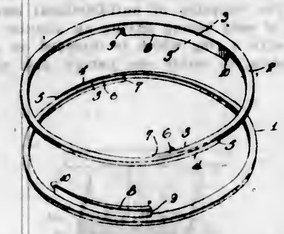
1,391,844. ELECTRICIAN'S JOIST - BORING TOOL. JAMES C. MOORE, Smyrna, N. Y. Filed Jan. 26, 1920. Serial No. 354,312. 1 Claim. (Cl. 144—105.)



A portable joist-boring tool, comprising a frame or casing supporting gear and having a bit chuck projecting from one face, a pair of bracket plates on opposite edges of said frame having alined perforations to receive a rod transversely to said bit projecting beyond the frame to rockingly support the same on spaced supports and handle grips projecting from the opposite face at opposite edges.

1,391,845. PISTON-RING. MATHEW M. MORATTA, Princeton, Ind. Filed Oct. 29, 1920. Serial No. 420,403. 3 Claims. (Cl. 74—109.)

1. A piston ring comprising a pair of complimentary circular members having their ends separated and adapted to be overlapped for a considerable portion of their surfaces, the outer overlapped end portion being tapered to a fine point, the inner overlapped portion being cut abruptly to provide a shoulder, and a flange formed ap-



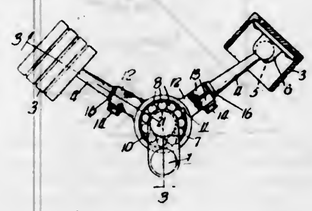
proximately diametrically opposite the said overlapped end, and of tapered formation to provide an abutment member adapted to engage the said shoulder, of the corresponding complimentary member.

1,391,846. METHOD OF FASTENING CUSHION-TIRES TO RIMS. LOUIS F. NIENABER, St. Paul, Minn., assignor to Lambert Tire & Rubber Co., Incorporated, Akron, Ohio. Original application filed May 21, 1920, Serial No. 383,277. Divided and this application filed Aug. 23, 1920. Serial No. 405,262. 2 Claims. (Cl. 154—12.)



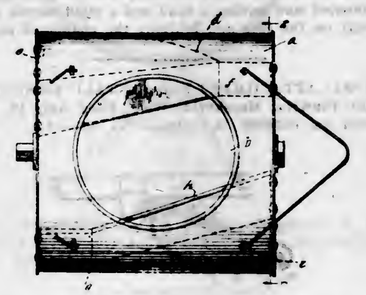
1. The method of fastening cushion tires to rims which consists in building the base portion of the tire on the rim, fastening the base to the rim at intervals and tying the base by encircling members to the fastening means.

1,391,847. CONNECTING-ROD. REINHOLD A. NORLING, Aurora, Ill., assignor to Independent Pneumatic Tool Company, Chicago, Ill., a Corporation of Delaware. Filed May 22, 1920. Serial No. 388,476. 9 Claims. (Cl. 74—17.)



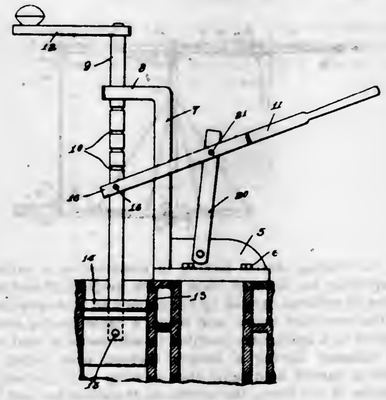
7. The combination with a crank pin and two pistons working in cylinders on opposite sides of the crank pin and arranged at an angle to each other and in the same plane, of connecting rods connecting the pistons with the crank pin, each rod having a pitman and a bearing sleeve surrounding said crank pin, said bearing sleeves being arranged side by side and each connected with its pitman with the longitudinal axis of the pitman offset inwardly from the center of the width of the sleeve, each sleeve having an inwardly extending annular flange at its inner side, bearing rollers between the crank pin and each sleeve and having their inner ends against said flange, and said crank pin having end thrust surfaces on opposite sides of said sleeves, one end thrust surface for the outer ends of the bearing rollers of each sleeve.

1,391,848. WASHING - MACHINE. FREDERICK OWEN, Detroit, Mich. Filed Feb. 28, 1921. Serial No. 448,297. 15 Claims. (Cl. 259—85.)



1. In a washing machine, a drum arranged for containing clothes and for a cleansing liquid, said drum having blades therein with portions having right and left hand pitches or helical arrangements on the drum, each blade extending substantially from end to end of the cylinder.

1,391,849. PISTON - GRINDING MACHINE. ORRIN PERKINS, Fayette, Mo. Filed Oct. 13, 1920. Serial No. 416,613. 1 Claim. (Cl. 51—26.)



In a grinding machine, a base, a standard having connection with the base, said standard having a right angled upper extremity, said right angled upper extremity having an opening providing a bearing, a rotatable shaft supported within the bearing, said shaft having a plurality of circumferential grooves disposed in spaced relation with each other, an adjusting lever, a collar having pivotal connection with the adjusting lever, set screws extending through the collar and having their ends disposed within a predetermined groove of a shaft to connect the adjusting lever and shaft, means for connecting a piston to one end of the shaft, and means for rotating the shaft.

1,391,850. OINTMENT-APPLICATOR. WILLIAM A. E. PFAFF, Kansas City, Mo. Filed July 10, 1919. Serial No. 309,864. 6 Claims. (Cl. 128—261.)



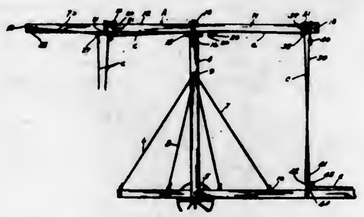
1. An instrument of the character described, comprising a channeled core having a head and a rigid sheath fitting slidingly on the core and bridging the channeled portion.

1,391,851. ATTACHMENT FOR CANTALIVER-SPRINGS. PAUL PIRWITZ, Marshfield, Wis. Filed Apr. 19, 1921. Serial No. 462,558. 5 Claims. (Cl. 267—41.)



1. A device of the character described, comprising an upper section adapted to be secured to the under side of a cantaliver spring; a lower auxiliary spring section adapted to be secured, at a point spaced inwardly from the outer end thereof, to the axle of the vehicle; a shackle pivotally connecting the outer end of the upper section with the projecting outer end of the lower section; and means for pivotally connecting the inner end of the lower section to the inner end of the cantaliver spring with which the device is to be used.

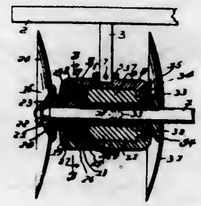
1,391,852. LOADING DEVICE. JACOB PLEIN, Plainview, Minn. Filed Oct. 22, 1920. Serial No. 418,859. 9 Claims. (Cl. 214—95.)



1. A loading device having in combination a structure comprising an elevated boom which projects therefrom, a series of sheaves carried by the boom and a sheave carried by the structure below said boom, a cable having one end secured in a stationary position in said boom, a load carrying member having a sheave thereon over which said cable is passed, said cable then passing over the series of sheaves on the boom, the sheave on the structure and being secured to a power means, the other end of the cable being secured in a stationary position at some distance from said structure, a second sheave on said load carrying member over which said cable is then passed, and a plurality of sheaves secured to fixed points also distant from said structure over which the cable passes to the power means.

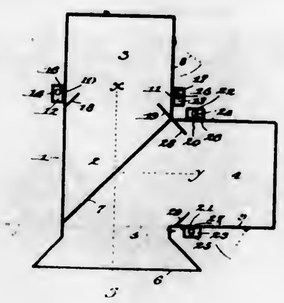
1,391,853. DISK-HARROW SPINDLE AND BOXING. RAY A. PRESS, Grinnell, Kans. Filed Mar. 30, 1921. Serial No. 456,890. 1 Claim. (Cl. 64—10.)

In a disk harrow spindle, a boxing, a shaft, a pair of harrow disks mounted upon the shaft and having their adjacent faces provided with spindle sleeves, slot and lug connections uniting the sleeves, whereby both disks may operate together, an annular ring threaded to one of the sleeves, a second annular ring fitted in the boxing, the two rings having adjacent beveled faces provided with raceways for the reception of anti-frictional members, the outer end of said boxing having an annular flange cooperating with a ring which is threaded on one of the spindle sleeves, to retain one harrow disk and spindle



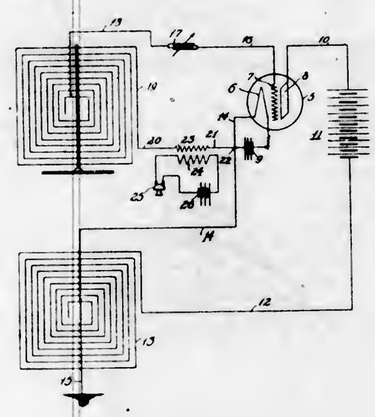
sleeve on the shaft, the other end of the boxing having a radial flange, and an interior radial flange, a flange on the spindle sleeve of the other harrow disk engaging between the last two mentioned flanges to connect the second harrow disk to the boxing, the interior of the boxing near one of the rings having an annular flange, and a hard wood filler sleeve mounted on the boxing surrounding the two spindle sleeves and interposed between the interior flanges of the bearing boxing.

1,391,854. APPARATUS FOR PRODUCING STAGE ILLUSIONS. GUS ROGERS and NICHOLAS E. POLYTES, New York, N. Y. Filed Apr. 30, 1920. Serial No. 377,821. 2 Claims. (Cl. 46—70.)



1. In a device of the class described, the combination of a pair of chambers arranged at right angles to each other and in each of which an object for observation may be located, a sheet of glass interposed diagonally at the mouths of said chambers, separate lighting means for each of said chambers, separate shutters for each of said lighting means, and means for concomitantly operating said shutters to effect the darkening of one of said chambers and the lighting of the other of said chambers whereby the objects in said chambers may appear to blend and dissolve into each other.

1,391,855. WIRELESS TRANSMITTING SYSTEM. HENRY K. SANDELL, Chicago, Ill., assignor to Herbert S. Mills, Chicago, Ill. Filed Nov. 28, 1919. Serial No. 340,998. 3 Claims. (Cl. 280—17.)



1. In a wireless transmitting system, an electron tube having an input and an output circuit, a loop aerial in series in the input circuit, and a loop aerial in series in the output circuit and in proximity to the first mentioned loop.

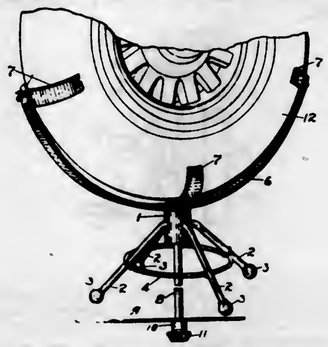
1,391,856. STAMPING DEVICE. FRANK J. SCHMIDT, Chicago, Ill., assignor to A. Stein & Company, Chicago, Ill., a Corporation. Filed Mar. 10, 1921. Serial No. 451,256. 7 Claims. (Cl. 101—368.)



1. In a device of the class described means for resisting, after a degree of pressure has been established between the face of the type and the imprintable surface, further pressure between said face and said surface.

1,391,857. SUPPORT FOR TIRE-CASINGS, &c. ALOYS P. SCHMITT, Buffalo, N. Y. Filed Sept. 30, 1919. Serial No. 327,517. 1 Claim. (Cl. 211—24.)

In a tire holder, a vertical cylindrical shaped body, a shaft bearing hole formed longitudinally through the center of said body, said body supported by means of legs comprising rods inserted at right angles into said body and bent downward to meet the floor at an angle, a ring fastened to each of said legs to form a brace for said legs, a semi-circular shaped holder mounted on said body by means of a shaft extending through the hole in said body, said holder being formed of a flat strip of material and

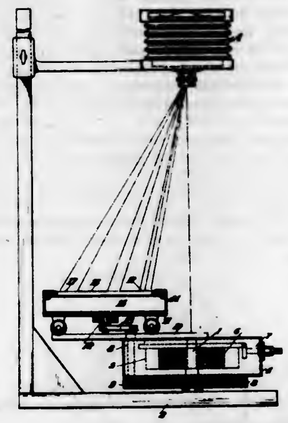


having flat semi-circular shaped arms fastened at right angles to said holder and means to rotate said shaft and holder, as shown and described.

1,391,858. PROCESS OF PRODUCING BARIUM CHLORATE. EUGENE P. SCHOCH, Austin, Tex. Filed Sept. 13, 1920. Serial No. 409,794. 4 Claims. (Cl. 23—13.)

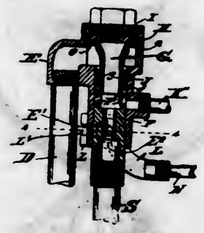
4. The continuous process of making barium chlorate which consists in treating a hot solution of barium hydroxid with chlorin to form a mixture of barium chlorate and barium chlorid in solution; continuing the addition of the reacting ingredients until said solution is saturated with barium chlorate; cooling said solution to precipitate mixed crystals of said chlorate and chlorid; and recovering in a substantially pure form said barium chlorate, substantially as described.

1,391,859. PROCESS AND DEVICE FOR PRODUCING GUILLOCHES AND THE LIKE. ARTHUR SCHULZE, Berlin, Germany. Filed Sept. 27, 1919. Serial No. 327,012. 10 Claims. (Cl. 88—24.)



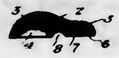
1. A device for producing guilloches comprising means for causing a luminous spot to describe a symmetrical closed orbit corresponding to a desired guilloche, and photographic means for photographing the successive positions of said spot in said orbit.

1,391,860. WATER-INLET VALVE FOR FLUSHING-TANKS. WILLIAM SHERWOOD, Detroit, Mich. Filed Oct. 30, 1920. Serial No. 420,767. 3 Claims. (Cl. 137—104.)



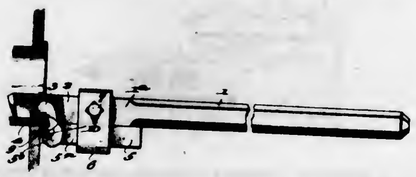
3. In a device of the character described; a flushing tank; a valve body in said tank; a reciprocating sleeve in said body; an annular valve having a flaring end carried by said reciprocating sleeve; a disk valve seat supported on an annular flange formed integral with the valve body; a screw threaded plug screwed into said body to secure said disk valve seat in position; a cup-washer supported between the annular valve and the reciprocating sleeve; a float lever fulcrumed upon trunnions integral with the valve body, and a pair of opposing set screws carried by the reciprocating sleeve for connecting the float lever with the reciprocating sleeve adjacent to the fulcrum of the float lever.

1,391,861. DEVICE FOR ATTACHING SIGNS TO GLASS. LEWIS MARION SMITH, Pocatello, Idaho. Filed June 7, 1919. Serial No. 302,502. 1 Claim. (Cl. 248—39.)



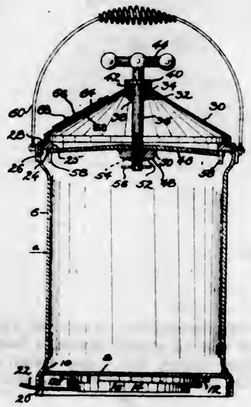
A vacuum sticker comprising an integral rubber structure providing a body having an inner flat face and an outer surface which is rounded both transversely and longitudinally, said body being thicker at one of its ends than at its other end and having its flat face, at its thickened portion formed with a cup-shaped depression, the said flate face, at the narrow portion of the body having spaced concentrically arranged ribs and having a transverse in-cut portion on its flat face between the outer rib and the cup-shaped depression whereby to provide a yieldable connection between the portions, to permit of the outward movement of the ribbed portion without interfering with the vacuum in the cup, and to also cause the said ribbed portion to spring against and lie flat upon the article engaged thereby.

1,391,862. BOILER-FLUE TOOL. CHARLES M. SPANGLER, Emporium, Pa. Filed May 4, 1921. Serial No. 466,722. 3 Claims. (Cl. 81—15.)



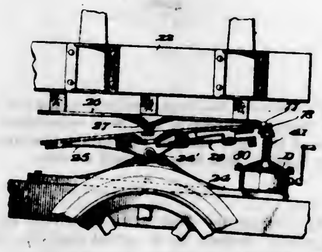
1. A boiler flue tool comprising a lever or handle provided with a jaw having a fulcrum adapted to engage the inner surface of the flue which is to be removed, a bending or prying jaw adapted to engage the outer flange of the tube, said jaw being slidable lengthwise of the lever or handle aforesaid for the purpose of positioning it as desired in relation to the jaw and fulcrum, and a yoke embracing the shanks of the aforesaid jaws and provided with means for locking the bending jaw.

1,391,863. PRESSURE-COOKER. HENRY R. SPANGLER, Denver, Colo. Filed July 21, 1919. Serial No. 312,415. 2 Claims. (Cl. 53—1.)



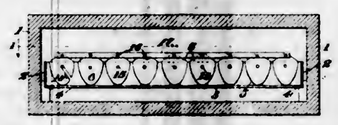
1. In a pressure cooker, a container, a cover therefor to maintain pressure, retaining devices on the bottom of the cooker, and an electric heater held by said devices in close engagement with the bottom of said container, whereby pressure within the container against said bottom increases and maintains the said close engagement by reason of curvature produced in said bottom by the pressure within the cooker.

1,391,864. MOTOR-VEHICLE. DUNCAN G. STANBROUGH, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Jan. 31, 1918. Serial No. 214,732. 7 Claims. (Cl. 280—33.1.)



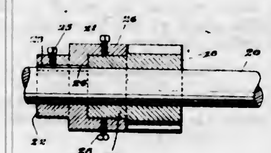
1. A trailer attaching unit comprising a member for attachment to a tractor vehicle, a member for attachment to a trailer vehicle, one of said members being pivotally mounted, connecting means between said members, and means engageable with said pivoted member for moving said member on its pivot to raise the other member.

1,391,865. INCUBATOR-TRAY. ARCHIE B. STEVENSON and LEWIS L. STEVENSON, Sonoma, Calif. Filed Mar. 7, 1921. Serial No. 450,117. 3 Claims. (Cl. 119—44.)



1. An incubator tray consisting of an open tray frame, a plurality of parallel spaced cradles pivotally mounted at their ends in said frame, said cradles each provided with a removable side wall and an operating member pivotally connected to all of said cradles whereby the same may be pivoted in unison within said frame and to position the side edges of one wall of adjacent cradles in substantially meeting relation in a horizontal plane to provide a substantially continuous floor for the frame when desired.

1,391,866. EVENER-GEAR ATTACHMENT FOR COTTON-PICKERS. WALTER R. STONE, Inman, S. C. Filed Jan. 6, 1921. Serial No. 435,497. 3 Claims. (Cl. 287—52.)



1. An adjustable gear attaching means for the shaft or spindle of the evener mechanism of a breaker or like picker, consisting of a sleeve provided with means for attachment to said shaft or spindle and having a socket for the revoluble reception of the collar of a stock gear.

1,391,867. CAN-SOLDERING MACHINE. JOHN C. STRICKLER, San Francisco, Calif. Filed June 5, 1919. Serial No. 301,880. 6 Claims. (Cl. 113—67.)



1. In a machine of the character described, the combination of wheels coöperating with each other to grip and advance solder wire, means for movably supporting one of said wheels so that it can be moved to or from the other wheel, means for rotating both of said wheels, irrespective of the position of the last-named wheel, a can track, means for moving cans in succession on said track, and means adapted to be operated by each can in succession for moving said movably supported wheel toward the other.

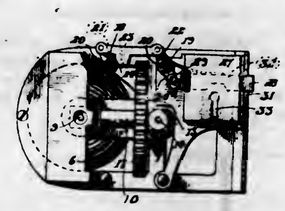
1,391,868. LOCKING DEVICE FOR INCANDESCENT LAMPS. LEON M. TOROOSIAN, Springfield, Mass. Filed Aug. 9, 1919. Serial No. 316,506. 3 Claims. (Cl. 173—356.)

1. A lamp socket having a base-portion formed with an opening therethrough, one end of which is enlarged to form a shouldered part, a tubular member in the opening and formed with an enlarged internally threaded part to engage the shouldererd part of the opening, the other end of the tubular member being externally threaded, a pin having an enlarged threaded part to engage the internal threads of the tubular member, and a smaller



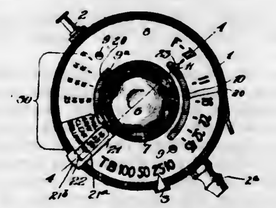
part extending through the tubular member and having a sharpened end for engaging the end of an incandescent lamp for locking the same in the socket, as described.

1,391,869. COMBINATION SASH BALANCE AND LOCK. THOMAS TAYHOOK, Hamtramck, Mich. Filed July 11, 1921. Serial No. 483,796. 4 Claims. (Cl. 16—201.)



3. A combined sash balance and lock including a casing having a transverse shaft journaled therein, a coil spring having one end fixed to the frame and its other end fixed to one end of said shaft, a second shaft journaled within the casing at right angles to the first named shaft and rotatably geared thereto, a pinion fixed upon the second named shaft and projecting partially through the casing to engage a window sash rack, manually operable means mounted in the frame for movement transversely of the pinion to engage the teeth of the latter so as to lock the same against rotation, said manually operable means comprising a member accessible for operation to lock said pinion against rotation and movable to an inaccessible position whereby the same may not be grasped for unlocking the pinion, and means permitting only key actuation of the locking means for releasing the same from said pinion.

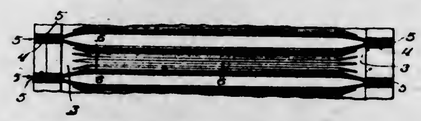
1,391,870. EXPOSURE-INDICATOR. ERNEST E. UNDERWOOD, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a Corporation of New York. Filed Oct. 17, 1918. Serial No. 258,596. 11 Claims. (Cl. 95—10.).



1. An exposure device for photographic shutters comprising a movable aperture adjusting member, a scale having a plurality of different light character indications

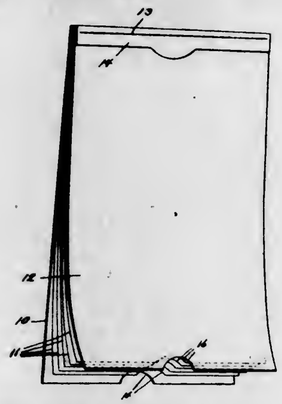
connected thereto and movable therewith, and shutter speed indications for each of said light character indications whereby the aperture formed by the adjustment of the member indicates automatically the appropriate shutter speeds for each of the light character indications.

1,391,871. TUBULAR-RADIATOR CONSTRUCTION. SIDNEY VOLK, Benton Harbor, Mich. Filed May 26, 1919. Serial No. 299,807. 6 Claims. (Cl. 257—128.)



1. In a radiator, a plurality of parallel sheet metal tubes formed with reduced middle portions to provide spaces between them for the circulation of the water and having rectangular heads which are externally smooth and internally reinforced and which are held together by solder which seals the spaces to prevent leakage of the water and to render each tube removable endwise without disturbing the others adjacent thereto.

1,391,872. CARBON BINDER AND ECONOMIZER. JOSEPH ADIE WHITE, Chicago, Ill., assignor to F. S. Webster Company, Boston, Mass., a Corporation of Massachusetts. Filed Feb. 13, 1920. Serial No. 358,463. 5 Claims. (Cl. 282—22.)



1. A carbon binder comprising a sheet of carbon paper and a superposed separate sheet of vellum which protects the carbon sheet from being cut by the type, both fastened together at their top edges.

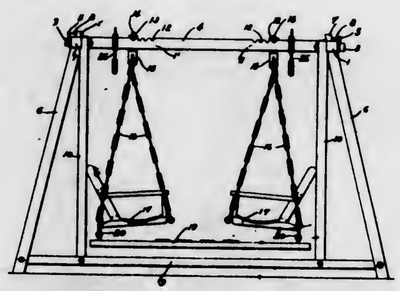
1,391,873. PUMP. JAMES ANDREW WHITLING, Healdton, Okla. Filed Dec. 10, 1920. Serial No. 429,647. 4 Claims. (Cl. 103—80.)

1. A pump of the character specified comprising a casing consisting of upper and lower sections, a stand pipe at the lower end of the lower section through which the liquid enters into the said section, said stand pipe extending well above the lower end of the section and having a check controlled port at its top, a barrel extending upwardly from the lower end of the section, the space between the barrel and the said lower end of the lower section being closed, a connection between the upper end of the barrel and the casing, said plunger being hollow and having a hollow piston rod connected therewith and extending to near the top of the upper section of the casing, a section of perforate casing interposed between the upper end of the barrel and the top of the said upper



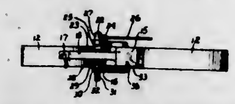
section, a check valve at the top of the hollow piston, and a packing gland at the top of the barrel through which the piston rod moves.

1,391,874. SWING. NEVIN A. ARCHIBALD, Concord, N. C. Filed Apr. 22, 1920. Serial No. 375,805. 2 Claims. (Cl. 155—64.)



2. A swing including a bar, means for supporting the same, cross heads extending from the bar and adjustable relative to each other, said cross heads being mounted for independent rotation, and a seat below each cross head, and flexible connections between each seat and its cross head.

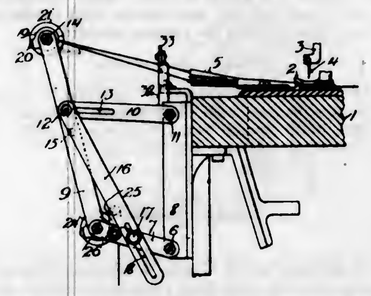
1,391,875. ABRASIVE FEEDING MECHANISM FOR GRINDING AND POLISHING MACHINES. SIGMOND F. BECK, Westville, Conn., assignor of one-half to George A. Hill, New Haven, Conn. Filed June 5, 1920. Serial No. 386,877. 4 Claims. (Cl. 51—263.)



1. A machine of the character described comprising a holder for a cake for abrasive material, a member adapted to bear against a cake in the holder, said member being provided with rack teeth, a pinion engaging said teeth and imparting movement thereto, a shaft carrying said pinion, a ratchet wheel on said shaft, an

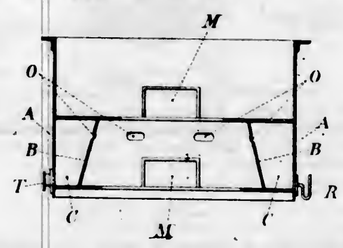
oscillating lever carrying a pawl engaging said wheel, said lever being provided with a plurality of longitudinally arranged apertures, and a reciprocating rod pivotally connected to said lever in one of said apertures.

1,391,876. STRIP-GUIDE FOR SEWING-MACHINES. JOHN BOSTON, Newark, N. J., assignor, by mesne assignments, to Thomas Carter & Sons, Inc., a Corporation of New York. Filed Sept. 4, 1918. Serial No. 252,526. 4 Claims. (Cl. 112—152.)



3. The combination with a sewing machine and its support, of a gate comprising a pair of upper arms and a pair of lower arms mounted to swing and projecting from the sewing machine, upright supports mounted on the outer ends of said pairs of arms and adapted to swing therewith toward the sewing machine, and fabric guiding means carried by said upright supports.

1,391,877. ASH-PIT FOR GAS-PRODUCERS MOUNTED ON AUTOMOBILES. VICTOR LÉON CAZES, Neuilly-sur-Seine, France. Filed Nov. 14, 1918. Serial No. 262,618. 3 Claims. (Cl. 48—67.)



1. An ash pit for gas producers comprising in combination an outer wall, an inner wall, and horizontal walls arranged below a gas producer and forming an outer annular chamber and a central chamber under the said gas producer, the central chamber being in open communication with the gas producer, means for feeding water to said annular chamber, means for automatically preventing the said chamber from flooding, means for feeding a mixture of air and steam to the said annular chamber, the inner wall being provided with holes affording communication between the upper part of the annular chamber and the upper part of the central chamber.

1,391,878. METHOD OF SCALING THERMOMETER-TUBES AND THE LIKE. LEE F. CHANEY, Springfield, Ohio, assignor to The Chaney Manufacturing Company, a Corporation of Ohio. Filed Dec. 20, 1918. Serial No. 267,705. 14 Claims. (Cl. 73—52.)

1. The herein described method of calibrating thermometer tubes or like devices, comprising heating the filled but unsealed tubes to a predetermined "heating out" temperature whereby the liquid fills the tube at that temperature and the end of the tube becomes the indicating point of the column of liquid for such temperature, closing the tube, subjecting the tube to a bath of lesser known temperature to determine the indicating point of the column of liquid at such known temperature, measuring the distance between the end



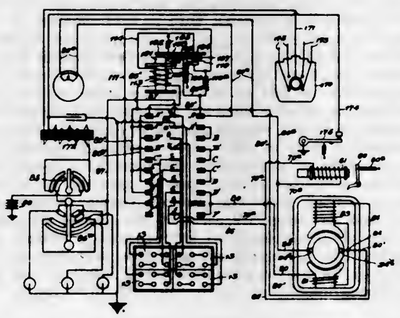
of the column of liquid at such known temperature and the end of the tube, and applying the tube to a scale having thereon an indication corresponding to the "heating out" temperature represented by the end of the tube, and on which the distance from such indication to the indication corresponding to said known temperature is equal to the distance from the known temperature point of the fluid column to the end of the tube.

1,391,879. STRAP-HOLDER, BELT-FASTENER, AND THE LIKE. OLIVER WILLIAM JAMES CHESTER, Glenmaggie, Gippsland, Victoria, Australia. Filed May 24, 1921. Serial No. 472,121. 8 Claims. (Cl. 24—182.)



1. In a fastener of the kind stated a tapering chamber having projecting into it a guide to locate part of a strap or belt, and a roller to jam the strap or belt as set forth.

1,391,880. ELECTRICAL SYSTEM FOR MOTOR-VEHICLES. JAMES K. DELANO, New York, N. Y. Original application filed Dec. 20, 1912, Serial No. 737,815. Divided and this application filed Dec. 15, 1916. Serial No. 137,180. 3 Claims. (Cl. 171—313.)



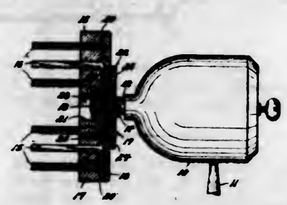
1. In an electrical system, the combination with a dynamo electric machine, of a storage battery arranged to be charged by current from said electric machine, combined cutout and regulating means for closing and opening the circuit connecting said electric machine and battery and also for regulating the output of said electric machine, means for affecting said combined means in response to voltage fluctuations, and means for affecting said combined means in response to current fluctuations, said affecting means including means whereby the affecting means coöperate in the regulation of said electric machine.

1,391,881. CLINICAL THERMOMETER. MAX D. DREYFUS, New York, N. Y. Filed Oct. 18, 1920. Serial No. 417,628. 3 Claims. (Cl. 73—52.)



1. In combination with a clinical thermometer of triangular cross section, having an index on one of the walls thereof, means associated with the thermometer arranged to position the wall having the index, when the thermometer is laid upon a support at such angle with respect to said support as to facilitate the reading of the thermometer.

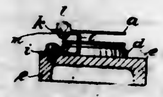
1,391,882. BRUSH. JOHN DWORNICZAK, Chester, Pa. Filed June 18, 1920. Serial No. 389,931. 1 Claim. (Cl. 15—37.)



The combination with a rotatable shaft having a threaded end, of a brush including two disk-like members of relatively different thicknesses, both of said members having alined squared openings, one of said members having a plurality of apertures, bristles threaded through the apertures and projecting from one side of the member, the opposite side or face of said member being recessed and providing an annular shoulder, the other part of said head reposing upon said shoulder, a flange projecting from the confronting face of the latter mentioned member inwardly of the peripheral edge, and arranged to engage said shoulder, a coupling plate reposing upon the latter mentioned member, fastening elements passed through said plate and the respective parts of the head of the brush, whereby all of said parts are held operatively associated, a threaded boss projecting centrally from said plate and received by the aforementioned squared openings, and said boss being threaded on the threaded end of the shaft.

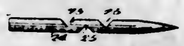
1,391,883. ANTIBALLOONING AND THE LIKE DEVICE FOR RING-SPINNING AND DOUBLING FRAMES. FRED FIELDING and THOMAS POTTER, Jr., Oldham, England. Filed June 29, 1920. Serial No. 392,792. 2 Claims. (Cl. 118—11.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. An anti-ballooning device of the hereinbefore specified type, comprising pairs of annular flat sectional thread controlling rings concentrically located in very close proximity above the traveler rings and having each integrally a rearwardly extending arm, a member located between each pair of said annular rings secured to the ring rail serving both as a support for the said pair of rings and as



a dirt catcher and means for individually concentrically securing on said member, said annular rings in relation to the ring on the rail, for the purpose specified.

1,391,884. PHONOGRAPH-NEEDLE. THEODORE FLETCHER, San Antonio, Tex., assignor of one-half to J. M. NIX, Bexar county, Tex. Filed June 5, 1919. Serial No. 301,871. 1 Claim. (Cl. 274—38.)



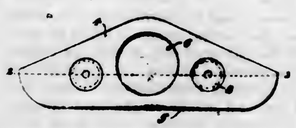
A phonograph needle, having V portions, produced by removing sufficient parts from alternately opposite sides of the body.

1,391,885. CUSHION-HEEL FOR SHOES. HENRY FRATERNALI, Dobbs Ferry, N. Y. Filed Jan. 13, 1921. Serial No. 436,918. 4 Claims. (Cl. 36—36.)



1. A resilient heel adapted for attachment or connection to the heel portion of a shoe, said resilient heel including a substantially hemispherical body, the heel body comprising an elastic shell structure having a hollow core, the core defining a cavity when the resilient heel is attached or connected to the heel portion of the shoe.

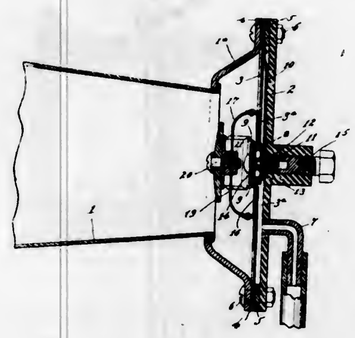
1,391,886. SHIM. PERRY E. FRITZ, Los Angeles, Calif. Filed Mar. 24, 1921. Serial No. 455,112. 3 Claims. (Cl. 64—55.)



1. A shim comprising a soft metal blank and a plurality of stops of harder metal embedded in said blank, adapted to prevent compression of the blank beyond a predetermined degree.

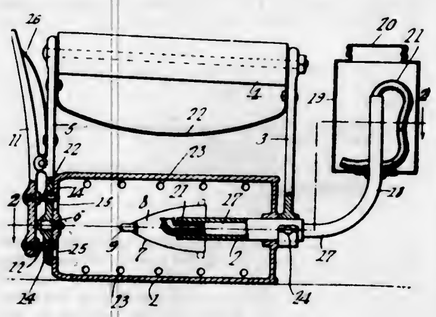
1,391,887. PNEUMATIC HORN. WALTER A. GARRATT, Covington, Ky. Filed Jan. 30, 1920. Serial No. 355,053. 12 Claims. (Cl. 116—138.)

1. In a sounding device, means for peripherally supporting a vibrant disk, means for applying suction behind said disk, said disk having at least one opening therein, a valve device of which said opening forms a part, and vi-



bratory mechanism carried by the disk, to modify the vibrations thereof.

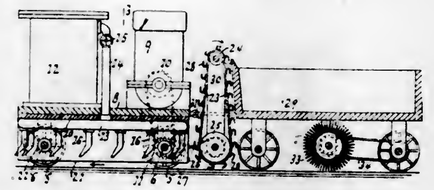
1,391,888. SADIRON. JOHN W. GATES, Swifton, Ark., assignor of one-half to C. M. Searcy, Swifton, Ark. Filed May 18, 1920. Serial No. 382,210. 1 Claim. (Cl. 158—232.)



A self heating sad iron including a body, a handle, arms extending from the handle, a pivotal connection between one end of the body and one of the arms, a tube fixedly connected to the other arm and projecting into the body to constitute a bearing for the other end of the body, a wick tube slidably mounted in the bearing tube and having that end thereof within the body rounded and provided with a top opening for a wick, said tube being slidable bodily within the bearing tube to fit the opening relative to the inner end of the bearing tube, a fuel container mounted on the wick tube and supported solely thereby, and means carried by the bearing tube for engaging the wick tube to hold said wick tube against movement relative to the handle and its arms and for fastening the bearing tube to one of the arms, and means for securing the body against rotation upon the bearing tube and relative to the arms.

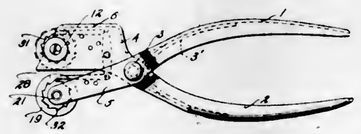
1,391,889. SNOW-MELTING APPARATUS. BARNEY GOLDMAN, New York, N. Y. Filed Mar. 8, 1920. Serial No. 364,059. 2 Claims. (Cl. 37—60.)

2. A snow melting apparatus comprising a truck having a frame, a fuel generator mounted on the frame, a plurality of coils connected to the generator arranged under the frame, each coil being independent of the other, means for controlling the volume of fuel admitted to each coil, a valve for shutting off one of the coils, and a series of noz-



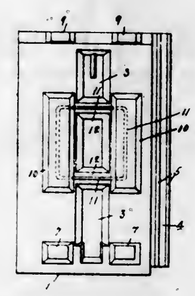
zles projecting downwardly from the coils with angular portions to point in a direction of the travel of the truck.

1,391,890. HAND-PUNCH. EARL C. GREEN, Spokane, Wash. Filed Feb. 23, 1921. Serial No. 447,123. 5 Claims. (Cl. 101—20.)



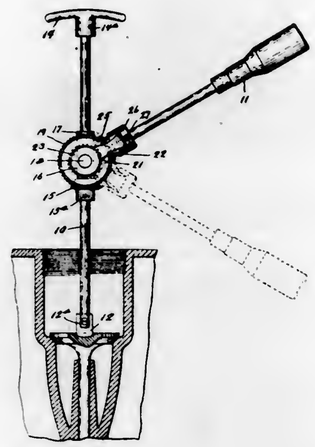
1. The combination in a punch comprising pivoted jaws and a complementary turret and anvil rotatably supported therein, male and female dies on said turret and anvil, detents engaging said turret and anvil, and means carried by one jaw for synchronously moving said turret and anvil to cause registration of selected dies.

1,391,891. ROOFING-TILE. ISRAEL GREENBERG, Baltimore, Md. Filed Dec. 14, 1920. Serial No. 430,593. 1 Claim. (Cl. 108—10.)



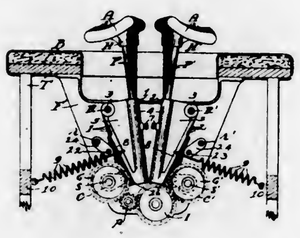
A roofing tile having its sides adapted to overlap and two grooves in its upper surface and a central groove in its lower surface thereof, two lugs on the lower surface of the tile adapted to fit in the grooves on the upper surface of the adjoining tile, two webs extending across the central groove 3 and having their lower surfaces flushed with a lower surface of the tile, two integral parallel projections on the lower surface of the tile on opposite sides of said central groove, and a wire embedded in said projections and extending across and resting against the lower surface of said webs.

1,391,892. VALVE-GRINDING TOOL. OTTAR T. HAIG, Jamaica Plain, Mass. Filed Sept. 15, 1920. Serial No. 410,520. 12 Claims. (Cl. 51—29.)



1. A valve grinding tool comprising a rotatable, valve-engaging rod, an operating handle, and means connecting said handle and rod admitting of a reciprocatory movement of said handle in the plane of said rod to reciprocate said rod and a rotary movement of said handle to rotate said rod.

1,391,893. MECHANICAL MANIPULATING-MACHINE. CLARA B. HARDY, Los Angeles, Calif. Filed July 14, 1920. Serial No. 396,274. 10 Claims. (Cl. 128—69.)



1. A machine of the character described comprising longitudinally alined applicators arranged in opposed sets transversely of the machine, rocking supports for moving said applicators transversely of the machine, and vertically adjustable means carried on said supports for holding said applicators in selected positions.

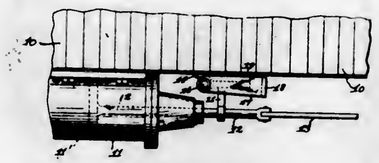
1,391,894. DEVICE FOR LINING AND RELINING BRAKE-BANDS. MILO B. HARRISON, Los Angeles, Calif. Filed Apr. 5, 1921. Serial No. 458,724. 1 Claim. (Cl. 218—19.)

A device for lining and relining brake bands, consisting of the attaching portion, an upright extending upwardly from the attaching portion, an anvil top provided on the top end of the upright, the anvil having a face inclined to the upright and arch-shaped crosswise to the



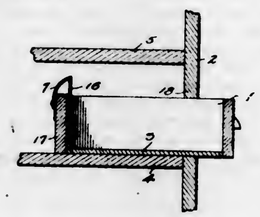
incline, the inclined arch-shaped top face being provided with a recess and a wedge at a distance from the recess.

1,391,895. RAILWAY-BRAKE INDICATOR. BRODERICK HASKELL, Franklin, Pa. Filed Dec. 23, 1920. Serial No. 432,846. 9 Claims. (Cl. 116—127.)



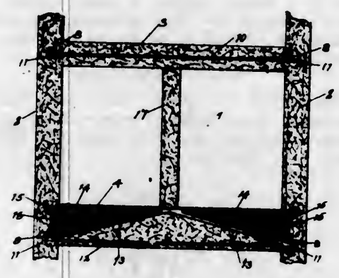
1. An air brake indicator in combination with a brake cylinder provided with a piston and piston rod, comprising a pivoted drop signal arm, means interposed between said piston rod and signal arm and operated by the movement of the piston for controlling the position of said signal arm and indicate the extent of travel of said piston in the cylinder.

1,391,896. DRAWER-STOP. VAN E. HISERODT, Algona, Iowa. Filed Apr. 16, 1920. Serial No. 374,317. 6 Claims. (Cl. 45—7.)



6. A drawer stop comprising a single strip, of resilient material having a straight flat portion and a drawer-straddling portion formed adjacent one end of the straight portion, said portions relatively tending to spring away from each other, and brace straps extending from the straight portion and affixed to the straddling portion for retaining the parts in shape.

1,391,897. BUILDING CONSTRUCTION. JAMES HUNDLEY, Noblesville, Ind. Filed Sept. 5, 1919. Serial No. 321,983. 2 Claims. (Cl. 72—1.)



1. In a concrete building construction having vertical walls and horizontal floors, said walls and floors thereof being of unitary poured construction, a plurality of vertical cores or ducts within said walls, a plurality of horizontal cores or ducts within said floors, said horizontal cores preferably registering with said vertical cores, a plurality of horizontal cores or ducts interconnecting said vertical cores, and means for reinforcing said walls and floors, adjacent said cores, substantially as described.

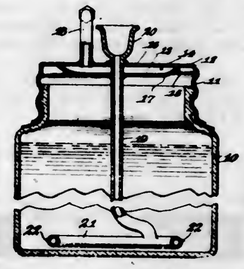
1,391,898. WRENCH. FRITZ KETTLER, Munich, Germany. Filed Nov. 13, 1920. Serial No. 423,985. 7 Claims. (Cl. 81—87.)



1. A wrench comprising a stationary jaw, a shank carrying the same, a handle for said shank, a sleeve slidable on said shank, a movable jaw, the same being connected with said sleeve, a tongue attachable to said sleeve adapted to movably engage said shank, said tongue having its lower portion inclined, and a lever mounted on said shank movable to and from said handle, the head of said lever being adapted to engage the inclined portion of said tongue and ride thereon whereby the tongue and sleeve and thereby the movable jaw may be operated to close the jaws.

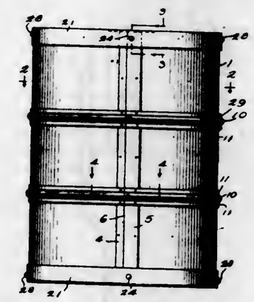
1,391,899. AUXILIARY CARBURETER. PETER J. LYNCH, Omaha, Nebr. Filed Feb. 25, 1919. Serial No. 279,116. 1 Claim. (Cl. 261—124.)

An auxiliary carbureter including a container, a cap closing the container having a top wall, the top wall of the cap being depressed to provide a central recess, a plate overlying the depressed portion of the wall and secured thereto closing said recess to define a chamber, the depressed portion of the wall being provided with a plurality of small openings therethrough leading from the container into the chamber, an air inlet pipe extending



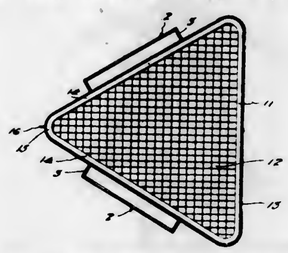
through the plate and said wall into the container, the pipe coacting with the plate and being secured to the wall for bracing and retaining said plate, and an outlet pipe connected to the plate leading from the chamber.

1,391,900. COLLAPSIBLE BARREL. WILLIAM H. MCCREERY, Norfolk, Va., assignor to McCrery Sanitary Collapsible Barrel Company, Incorporated, Philadelphia, Pa., a Corporation of Delaware. Filed May 10, 1921. Serial No. 468,319. 3 Claims. (Cl. 217—44.)



1. A collapsible barrel comprising a plurality of stave sections, the adjacent edges of said stave sections being provided with interlocking joints, hoop sections secured to said stave sections, one end of each of said hoop sections being provided with a recess, a projecting lip arranged on the other end of each of the hoop sections and adapted to be received in the recess of the adjacent section, and fastening means to retain said hoop sections in position.

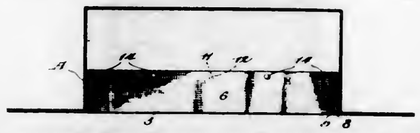
1,391,901. RACKING-FRAME FOR POOL-BALLS. JAMES H. MCCOOL, Ellsworth, Kans. Filed Nov. 9, 1920. Serial No. 422,867. 1 Claim. (Cl. 46—6.)



In a racking frame for billiard or pool balls, yoke members on the opposed sides thereof constructed of round

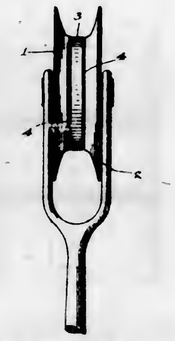
wire and comprising lower longitudinal members which are disposed below the lower edge of the frame, arms on the ends of the said longitudinal members having inturned portions which are connected to the said sides of the frame, a fabric mesh providing a removable bottom for the frame and when in operative position embracing the sides of the frame, and latching means at the front of the frame for removably locking the fabric thereon.

1,391,902. SWEATBAND-PROTECTOR. JOSEPH MARTIN, Brooklyn, N. Y. Filed Nov. 6, 1920. Serial No. 422,297. 4 Claims. (Cl. 2—32.)



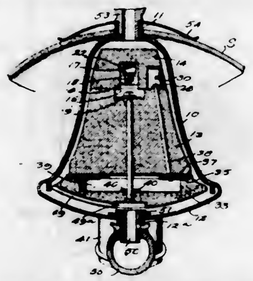
1. A sweat band protector for hats comprising a strip of tubular cellular fabric, a stiffening strip of non-absorbent material inserted between the walls of said fabric, and a strip of absorbent material between one side of said stiffening strip and one wall of the fabric.

1,391,903. TROLLEY-WHEEL FOR ELECTRIC STREET-CARS. JULIO SOTO NAVARRO, Habana, Cuba. Filed Apr. 9, 1921. Serial No. 459,913. 1 Claim. (Cl. 191—68.)



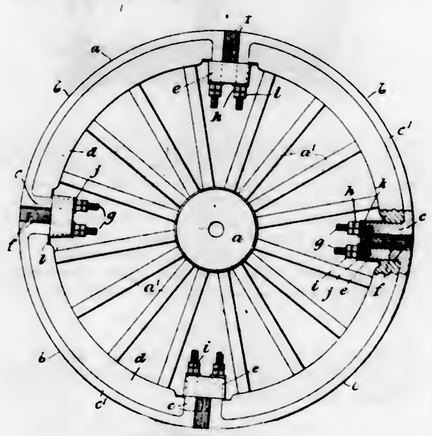
A trolley wheel for electric street cars comprising at least three separate parts, the outer parts flanged, and the intermediate parts of cylindrical form (in disks form) these parts to be used joined together on the same axle, each having free and independent movement of the other.

1,391,904. CLUSTER LAMP-SOCKET. THOMAS O'DONNELL, Ironwood, Mich. Filed Nov. 12, 1919. Serial No. 337,462. 2 Claims. (Cl. 240—78.)



1. A reversible cluster lamp socket comprising a casing, lamp sockets arranged in the bottom of said casing, said casing being provided with threaded extensions arranged at the top and bottom, means for suspending said casing, comprising a tubular element adapted to engage either of said extensions and provided with an opening for the reception of a flexible element, a second tubular element adapted to engage the other extension, and globe supporting means adapted to be carried by either of said tubular elements.

1,391,905. TIRE OF ROAD AND LIKE VEHICLES. ALEXANDER ORR, Choma, Northern Rhodesia, South Africa. Filed Apr. 30, 1919. Serial No. 293,754. 1 Claim. (Cl. 301—94.)



In combination with a wheel rim, a tire composed of a plurality of arcuate sections, radially disposed inwardly extending flanges at the respective ends of the sections, the opposed faces of the adjacent flanges being tapered, a supporting pin arranged between each of the adjacent flanges, a plurality of distance pieces removably arranged between the adjacent flanges and supported by the pin, a plate arranged over the flanges and secured to the inner surface of the rim, a tapered collar engaged with the adjacent flanges and arranged over the plate, and means associated with the flanges for releasably clamping the collar against the plate to rigidly hold the rim with respect to the tire sections in addition to clamping the flanges.

1,391,906. DENTAL-ENGINE HANDPIECE. WILL R. PORTER, Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company, a Corporation of Pennsylvania. Filed Sept. 23, 1920. Serial No. 412,333. 9 Claims. (Cl. 32—15.)

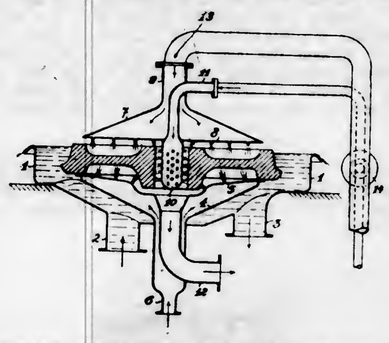


1. A dental engine handpiece having a shield arranged to prevent contact of the operator's hand with the interior parts thereof.

1,391,907. METHOD OF MAKING RAILWAY DISK WHEELS. FRIEDRICH SCHAFFER, Leobersdorf, near Vienna, Austria. Filed Mar. 28, 1916. Serial No. 87,146. 5 Claims. (Cl. 148—13.) (Granted under the provisions of the Act of Mar. 3, 1921, 41 Stat. L., 1313.)

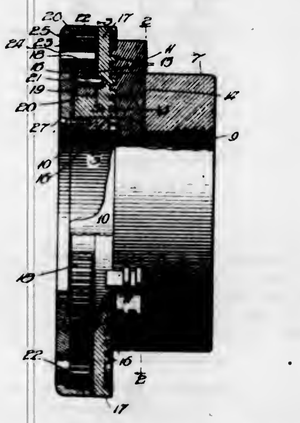
1. The process of making railway-wheels of the disk-type of steel containing a comparatively large percentage of manganese, which process consists in first subjecting the wheel to a suitable heat treatment, and then cooling

the wheel by subjecting the rim of the wheel to the maximum cooling effect, the hub to a lesser cooling effect



and the disk portion to the minimum cooling effect but cooling the parts more slowly than they would be cooled when quenched.

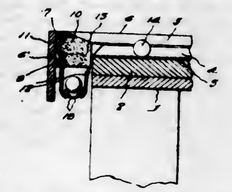
1,391,908. CHUCK. ALBERT H. SEGLER, Chicago, Ill. Filed Apr. 3, 1919. Serial No. 287,166. 2 Claims. (Cl. 279—114.)



1. A chuck comprising a supporting member containing openings therethrough forming guides, jaws mounted in said guides and adjustable toward and away from the center of said member, said supporting member being provided with an annular extension of reduced external diameter, and means for adjusting said jaws comprising a rotatably mounted ring on said extension and presenting at a face thereof a spiral flange, shoulder portions on said jaws engaging said flange, said ring being formed, beyond the face thereof equipped with said spiral flange, of reduced external diameter, a spur gear mounted upon the reduced end of said ring, and a spur pinion rotatably mounted on said supporting member and meshing with said spur gear, with a portion of said spur pinion accessible at a face of the chuck at which said pinion is adapted to be engaged for rotating it, said ring at its spiral-flange-equipped portion extending radially beyond said spur gear.

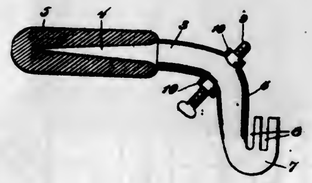
1,391,909. POOL-TABLE. JAMES H. MCCOOL, Ellsworth, Kans. Filed Nov. 9, 1920. Serial No. 422,865. 4 Claims. (Cl. 46—12.)

1. In a pool table construction, a top rail which is beveled upwardly from the cushion and which is elevated at the portions of the table provided with the pockets and notched at such portions, a ledge at the top and a strip below the notched portions forming flanges, a



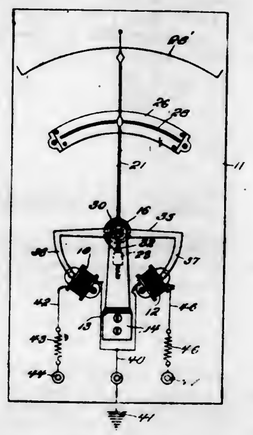
fabric pocket secured to the flanges and bellied between the flanges, and formed with a sack-like extension below the lower flange, and a ball receiving track passing through the said depending portions of the pockets.

1,391,910. SAW-SET. FRANK SIKOWSKI, Mount Carmel, Pa. Filed Dec. 11, 1919. Serial No. 344,108. 2 Claims. (Cl. 76—71.)



1. In a saw set, a shank, an arm disposed at an angle to said shank and formed integral with the latter, a foot at the outer end of said arm, the said foot having a recess in the upper edge thereof, the said recess being disposed parallel to said arm, and a screw threaded through said arm and movable toward or away from the plane of the recess.

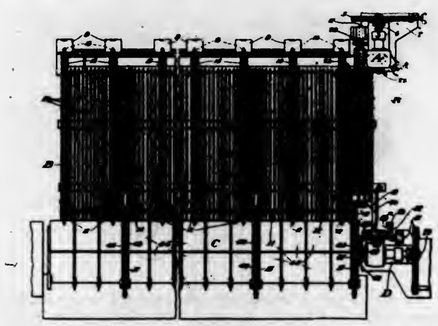
1,391,911. GROUND-DETECTOR. ERNEST J. SIMON, Guantanamo, Cuba. Filed July 8, 1918. Serial No. 243,782. 1 Claim. (Cl. 175—183.)



In a device of the class described, a pivotally mounted arm, a plurality of coiled springs connected with the pivotal mounting of the arm and assisting in returning the latter to a given position when deflected, a pointer

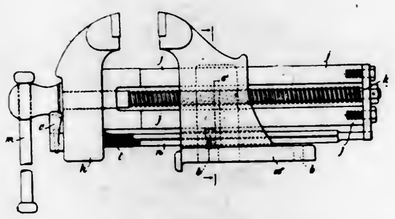
mounted on the pivot, a plurality of coils, an armature member for each coil, said members having connection with the arm at opposite ends thereof, means for connecting the coils with each other said means having connection with the ground, terminal members for connection with the leads of a circuit to be tested, and a resistance located adjacent each terminal member and connnected with the latter and with the respective coils, an air resistance vane connected with the arm and moving in a path concentric with the pivotal mounting of the arm, the aforesaid coiled springs and armature members also being approximately concentric with the pivotal mounting of the arm.

1,391,912. APPARATUS FOR HANDLING AND FORMING PIPE-SKELP. JAMES SIMPSON and HARRY E. CLAY, McKeesport, Pa. Filed Nov. 13, 1920. Serial No. 423,924. 11 Claims. (Cl. 164—49.)



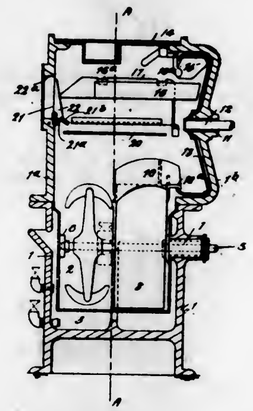
1. The combination with a cutting-off shear and a combined clipping and cupping shear, of a transfer table for conveying the skelp from said cutting-off shear, a clipping table arranged to receive the skelp from said transfer table, and means for operating said tables.

1,391,913. QUICK-RELEASE BENCH-VISE. MAURICE WILLIAM SMITH, Lyndhurst, Hoddesdon, England. Filed May 7, 1920. Serial No. 379,472. 2 Claims. (Cl. 81—36.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



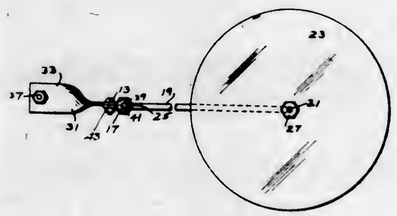
1. A quick release vise comprising a fixed jaw adapted to be attached to a bench, two half nuts mounted in said fixed jaw, a double sliding bar, a movable jaw carried by said double sliding bar, said double sliding bar being adapted to slide in said fixed jaw, a clamping screw operating between said half nuts, means for opening and closing said half nuts, said means comprising vertical slots in said half nuts, pins carried by said half nuts, sliding members adapted to move simultaneously and in opposite directions and to operate in said vertical slots in said half nuts, inclined slots in said sliding members adapted to coact with the said pins carried by said half nuts, a square shaft disposed parallel with said double sliding bar, a two arm lever on said square shaft, slots formed in said two arm lever, pins on said sliding members, coacting with said slots in the two arm lever, a handle on said square shaft, and means for retaining the said half nuts in their closed position.

1,391,914. CHOCOLATE AND LIKE COATING MACHINE. ASBJORN SONSTHAGEN, Essex, England. Filed Nov. 4, 1920. Serial No. 421,805. 9 Claims. (Cl. 91—3.)



1. In combination, a rotatable member comprising an annular part having an inner face; adapted to receive material thereon; a horizontal conveyer disposed away from over said face; and means whereby said conveyer is adapted for receiving material from said face.

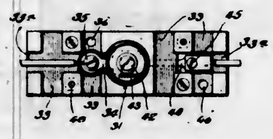
1,391,915. PROTECTIVE DEVICE. NORMAN S. STARR and LESTER E. COLLIER, Moweaqua, Ill.; said Collier assignor to said Starr. Filed Oct. 13, 1920. Serial No. 416,601. 1 Claim. (Cl. 296—97.)



A device of the class described, comprising a translucent celluloid disk member, a rod normally extending in a substantially horizontal direction when in service and having a bent threaded end, means on said end for mounting the disk member and securing it in its adjusted positions, the other end of the rod having a bent end, and a bracket comprising members adapted to be fastened

to an automobile at a portion thereof adjacent the wind shield, one of said bracket members terminating in a portion coöperating with an adjacent portion of another member to form a bearing for the second end of the rod, and means for clamping said portions together to retain the rod in its several adjusted positions and yet permit the rod to be rotated within said portions by the driver while the car is in motion, to vary the position of the disk member.

1,391,916. COMBINATION SWITCH AND DISTRIBUTING-PANEL. OLIVER T. SWEET, St. Louis, Mo. Filed Feb. 17, 1919. Serial No. 277,421. 1 Claim. (Cl. 200—133.)



A fuse plug block composed of insulating material and provided with a recess, a fuse plug socket within said recess, contact members arranged in said block adjacent to said fuse plug socket and electrically connected thereto, and there being a plurality of channels formed in said block and leading in different directions from each contact member.

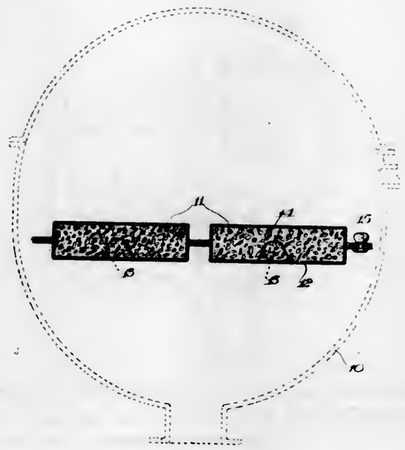
1,391,917. PERMANENT CALENDAR. CARL TEICHTNER, Leipzig, Germany. Filed Feb. 19, 1920. Serial No. 359,961. 2 Claims. (Cl. 40—107.)



1. A permanent calendar comprising a supporting backing, individual booklets or pads containing data indicating independently the day and month of the year, the leaves of said pads or booklets being printed with the data on one side only, the leaves of the pads adapted to be turned over successively to expose new data, and retaining means supported by said backing and being openable away from the backing to permit the operator to have access to the booklets or pads for the purpose of turning the leaves over, said retaining means adapted to engage completely the turned-over leaves and to obscure such turned-over leaves but exposing the data on the leaves not yet turned over.

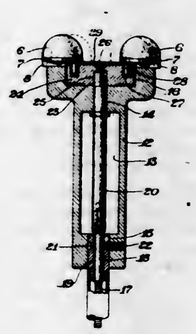
1,391,918. CANDY AND METHOD OF PRODUCING. LIVINGSTON A. THOMPSON, Waukesha, Wis. Filed Apr. 7, 1919. Serial No. 288,164. 3 Claims. (Cl. 99—11.)

3. The method of producing molded sponge candy which consists in placing in a mold a quantity of hot boiled candy, less than enough to fill the mold, and expanding the steam bubbles within the candy and thereby



expanding the candy to fill the mold by extracting the air from the mold and allowing the candy to cool in such condition.

1,391,919. MASSAGE APPARATUS. LIVINGSTON A. THOMPSON, Waukesha, Wis. Filed Jan. 5, 1920. Serial No. 349,484. 4 Claims. (Cl. 128—59.)

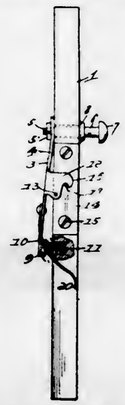


1. In a massaging device, the combination of a support, a shaft journaled therein, a cam on said shaft, massage members operatively connected to said cam and moved thereby toward and away from each other parallel to the plane of rotation of said cam, and guide means for said members disposed at right angles to said shaft.

1,391,920. DOOR-CATCH. ROY L. THOMPSON, Bend, Oreg. Filed Sept. 23, 1920. Serial No. 412,161. 5 Claims. (Cl. 292—96.)

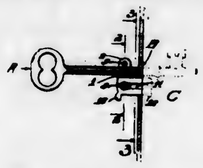
1. A device of the character described, comprising a catch-carrying plate pivoted to the inner face of one side of a door casing and adapted for engagement with the adjacent edge of the door, means for rocking said

plate to disengage the catch from the door, and spring means secured to and movable with thhe plate operable



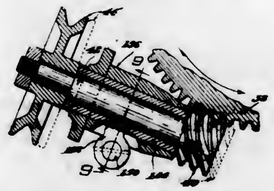
upon disengagement of the catch from said door to impart an opening thrust to the latter.

1,391,921. KEY ATTACHMENT. EDWARD TILLERT, Racine, Wis. Filed Feb. 24, 1921. Serial No. 447,520. 4 Claims. (Cl. 70—65.)



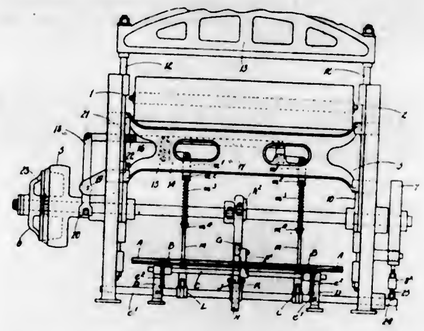
1. A key attachment of the character described, comprising a member, a key holding element secured to said member, and movable means forming said connection which permits the free movement of the holding element in one position and holding the same against movement in another position.

1,391,922. DRIVING AND STOPPING MECHANISM. LAURENCE E. TOPHAM, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Mar. 14, 1919. Serial No. 282,689. 14 Claims. (Cl. 192—116.)



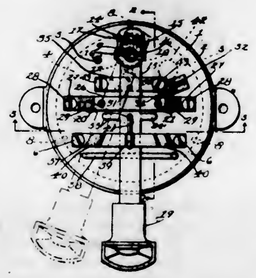
1. A driving and stopping mechanism having, in combination, a shaft, a high speed driving mechanism therefor, a low speed driving mechanism therefor, means for shifting from the high to the low speed mechanism, said low speed mechanism constructed to act first to reduce the speed of the shaft and then to drive the shaft at a low speed, stopping devices for the shaft, and means whereby the resistance offered by the shaft to the actuation thereof by the low speed mechanism is utilized to render the stopping devices active.

1,391,923. COMBINED CLUTCH-OPERATING GEAR AND BRAKE MECHANISM FOR REVOLUTION STAMPING-PRESSES. ELIHU VICK, Nailsworth, England. Filed Apr. 5, 1921. Serial No. 458,692. 18 Claims. (Cl. 192—17.)



1. In a stamping press the combination of a stamping top, a main driving shaft, means carried by said driving shaft to reciprocate said stamping top, a clutch upon said driving shaft, a pedal lever, a pair of interconnected levers associated with said pedal lever, means connecting said levers and said clutch, which means positively operate in one direction but allow relative movement in the other, whereby the clutch is operated to drive the shaft and to reciprocate the stamping top, means carried by said driving shaft to return said pedal and levers to its normal position and allow the clutch to disengage, a brake associated with the driving shaft and means associated with said levers to apply said brake when the levers are returned to their normal position.

1,391,924. SWITCH. ORINGTON A. WARE, Easton, Pa., assignor to Smith Signal Corporation, New York, N. Y., a Corporation of Delaware. Filed Jan. 24, 1920. Serial No. 353,897. 9 Claims. (Cl. 200—4.)



2. A switch comprising a base, right and left contacts thereon, a pivotal blade movable right and left from neutral position over the base, and a common contact member bridging the blade, the blade having oppositely projecting compressible split wings adapted to enter frictionally between said contacts and the portions of the contact member thereover.

1,391,925. RAIN-SHIELD. JACOB WARSHAWSKY, New York, N. Y., assignor of one-half to Abraham Rodak, New York, N. Y. Filed Jan. 26, 1920. Serial No. 354,084. 2 Claims. (Cl. 2—108.)

1. A temporary and inexpensive protector from the weather, adapted to fit loosely over the head and shoulders, consisting of a single sheet of waterproofed paper, cut approximately in the form of a thick and inverted letter T, the stem portion forming the head protecting portion, the free end edge of the stem of the T being



folded upon itself and stuck together to form the top of the protector, and the cross-bar of the T folding about the shoulders of the wearer and means for fastening the ends of the cross-bar part under the chin of the wearer.

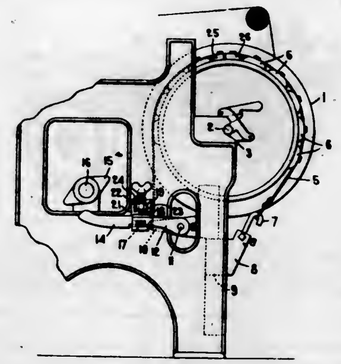
1,391,926. FIRE-DOOR FOR LOCOMOTIVES. WILLIAM WHITE, Niles, Mich., assignor to Harry Vissering & Company, Chicago, Ill., a Corporation of Illinois. Filed May 29, 1915. Serial No. 31,254. 8 Claims. (Cl. 110—177.)



1. In a fire door, the combination of a frame, an inwardly swinging door mounted in said frame, a lever having upper and lower portions pivotally attached intermediate its ends, to said frame, the lower part of said lever being adapted only to contact with and open said door when the upper part of said lever is moved rearwardly.

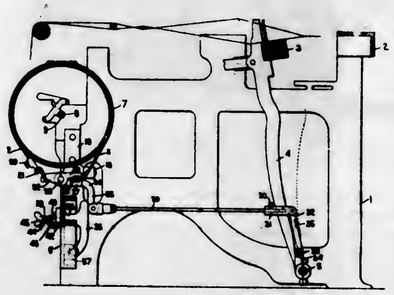
1,391,927. CAM-ACTUATED WARP-TENSION-CONTROLLING MECHANISM FOR LOOMS. HENRY W. YOUNGQUIST, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Sept. 8, 1920. Serial No. 408,999. 6 Claims. (Cl. 139—58.)

1. A warp tension controlling mechanism for looms having a cam shaft comprising a warp beam having a brake drum thereon, a brake engaging said drum, brake applying means acting normally to maintain a substantially uniform tension upon the warp and a cam on said cam shaft operable to engage said brake applying means



and increase the tension upon the warp at predetermined intervals in the operation of the loom.

1,391,928. WARP-TENSION-CONTROLLING MECHANISM FOR LOOMS. HENRY W. YOUNGQUIST, Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass., a Corporation of Maine. Filed Sept. 8, 1920. Serial No. 409,000. 9 Claims. (Cl. 139—58.)

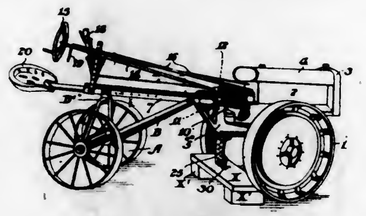


2. Warp tension controlling mechanism for looms having a warp beam provided with a friction drum comprising a brake band anchored at one end engaging said drum, a brake lever connected to the other end of said brake band, having a main section fulcrumed upon a pivot on the loom side and a supplemental section also fulcrumed upon said pivot, yielding means connecting said lever sections and means operating upon said lever when the lay reaches a predetermined position in its beat-up to cause said brake band to lock the warp beam against rotation.

1,391,929. TRACTOR. CHARLES J. ALLEN, Moorestown, N. J., assignor to S. L. Allen & Co., Inc., a Corporation of Pennsylvania. Filed June 9, 1920. Serial No. 387,541. 2 Claims. (Cl. 180—12.)

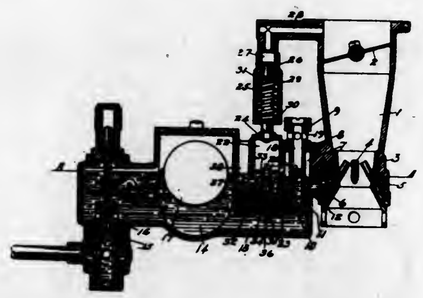
1. The combination with a tractor having a power unit, supporting wheels, a rearwardly extending beam adapted for attachment to a vehicle or implement to be drawn by the tractor and a depending draft plate in operative relation therewith, of anti-friction means supported by and adjacent the lower extremity of the draft

plate, said means being adapted to coact with a supporting surface whereby during an interchange of implements



the weight of said beam is sustained, the tractor maintained in upright position and the horizontal traverse of the beam with respect to the power unit facilitated.

1,391,930. CARBURETER. FRANK H. BALL, Detroit, Mich., assignor to Ball & Ball Carburetor Company, Detroit, Mich., a Corporation of Michigan. Filed June 10, 1919. Serial No. 303,206. 8 Claims. (Cl. 261—41.)

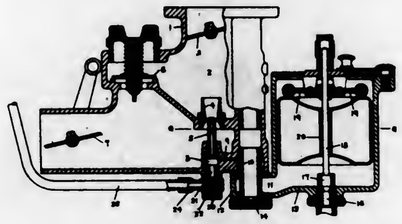


1. In a carbureter, the combination of a suction passage; means for delivering a combustible mixture comprising as its elements air and fuel to said passage, the fuel being passed through a conduit delivering at least the major portion of the fuel supply for the combustible mixture; pick-up and step-up devices, said devices modifying said delivery through said conduit by the direct action of inflowing air to vary the relative flow of said elements to the suction passage to form a richer mixture with a lesser degree of vacuum and to momentarily further increase the richness of the mixture immediately following such variation; and mechanism responsive to variations of pressure in the suction passage actuating said devices.

5. In a carbureter, the combination of a suction passage; an intermediate chamber communicating with the suction passage, a source of fuel supply and with the atmosphere; a well in which fuel accumulates communicating with the atmosphere; a passage leading from the lower part of the well to said chamber; a valve varying the communication between the chamber and the atmosphere; and means responsive to variations of pressure in the suction passage for actuating the valve.

7. In a carbureter, the combination of a suction passage; a well in which fuel accumulates and having an opening to the atmosphere; a connection leading from below the fuel level in the well to the suction passage; and air passage leading from the connection to the atmosphere; a valve controlling said air passage; and means responsive to variations of pressure in the suction passage controlling the valve.

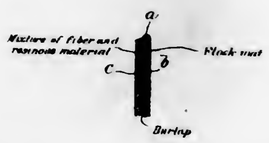
1,391,931. CARBURETER-CONTROL MECHANISM. FRANK H. BALL and FREDERICK O. BALL, Detroit, Mich., assignors to Ball & Ball Carburetor Company, Detroit, Mich., a Corporation of Michigan. Filed June 10, 1919. Serial No. 303,209. 4 Claims. (Cl. 261—63.)



1. In a carbureter control mechanism, the combination of a carbureter comprising devices for delivering fuel and air to form an explosive mixture; a controlling device; a fluid connection between the controlling device and the carbureter; and means on the carbureter for modifying the mixture through the action of a fluid in the connection, said device and means being correlated to produce with equal movements of the controlling device equal variations in the mixture.

3. In a carbureter control mechanism, the combination of a carbureter comprising a suction passage; devices for supplying an explosive mixture comprising as elements air and fuel to said passage; means for varying the quality of the mixture; a conduit leading from said means; and controlling devices for said conduit positioned at a point remote from the carbureter, said last-mentioned devices comprising an actuating element increasing the ratio of opening in the conduit with a given movement of the element.

1,391,932. SHOE-STIFFENER. HARRY H. BECKWITH, Brookline, Mass., and EDWARD E. COX, Dover, N. H.; said Cox assignor to said Beckwith. Filed Jan. 3, 1919. Serial No. 269,475. 5 Claims. (Cl. 91—68.)

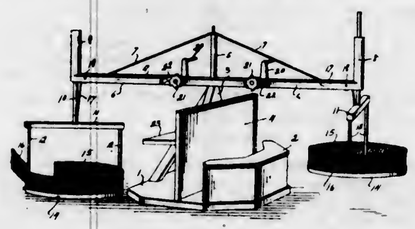


1. A stiff resilient sheet comprising a foundation of flexible woven fibrous material and a coating adherent on the face thereof and interlocked therewith, said coating consisting of a mixture of disintegrated fiber and a resinous compound which is stiff and hard when cold but is capable of being softened and then sitting in a rigid state.

1,391,933. DISPLAY APPARATUS FOR STOCK. LORENZO W. BELL, Carrollton, Mo., assignor of one-fourth to Henry O. Keltner and one-fourth to Russell Keltner, Carrollton, Mo. Filed Mar. 16, 1921. Serial No. 452,854. 2 Claims. (Cl. 211—20.)

1. A display apparatus for stock comprising a member, means coacting with the intermediate portion of said member for supporting the same for swinging movement in substantially a horizontal path, upstanding tubular members carried by the first named member at spaced

points thereon, a rod slidably disposed through each of said tubular members, a cross head carried by the lower



end portion of each of said rods, hangers depending from the opposite end portions of the cross head, and a platform supported by said hangers.

1,391,934. COMPOSITION FOR WATERPROOFING CLOTH. NELSON C. BISSELL, Modesto, Calif. Filed Oct. 7, 1920. Serial No. 415,398. 2 Claims. (Cl. 134—17.)

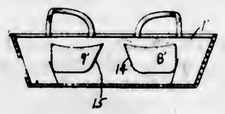
1. A composition for waterproofing cloth consisting of asphaltum, paraffin and liquid rubber mixed together in the proportions of 20 pounds of asphaltum, 3¼ pounds paraffin and 1 pint vulcanizing rubber, and a common solvent for said ingredients.

1,391,935. DEVICE FOR REGULATING TEMPERATURE. ALDEN BLOSSOM, Newton Square, Pa. Filed Mar. 12, 1921. Serial No. 451,703. 4 Claims. (Cl. 236—4.)



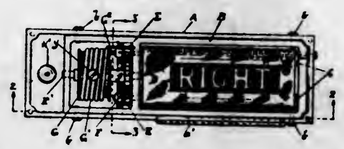
1. In combination with a compartment, a partition of textile material dividing said compartment into an upper chamber and a lower chamber, an air inlet opening and an air outlet opening in communication with the upper chamber, valves for controlling the flow through said openings, a thermostat within the lower chamber, and means coacting with the thermostat and the valves for automatically moving the same relatively to the coacting openings.

1,391,936. BRASSIÈRE. SADIE BOSKY, Brooklyn, N. Y. Filed Feb. 27, 1919, Serial No. 279,658. Renewed Aug. 16, 1921. Serial No. 492,874. 2 Claims. (Cl. 2—73.)



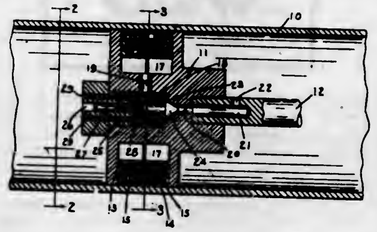
1. As an article of wearing apparel, a brassière comprising a strip of material, a pair of spaced pockets secured to the under side of said material on either side of and adjacent the middle portion thereof, and separable means for closing said brassière at the back of the wearer, said pockets being so positioned as to draw the breasts around and away from the middle of the chest, when the brassière is fastened around the wearer.

1,391,937. DIRECTION-INDICATOR FOR MOTOR-VEHICLES. CHARLES L. BOSSOLT, Erie, Pa., assignor of one-half to John C. Bossolt, Erie, Pa. Filed Nov. 12, 1920. Serial No. 423,607. 1 Claim. (Cl. 116—45.)



In a device of the class described, a frame, a pair of spaced parallel rollers, a curtain having its opposite ends secured to and wrapped around each of said rollers in opposite directions, journal pins in the ends of said rollers and mounted in said frame, a pinion gear secured on two of said journal pins at one end of said frame, a supporting shaft secured in one end of said frame, a spur-gear mounted on said shaft and intermeshing with each of said pinion gears, a spool secured to said spur gear, a cable wrapped around said spool and leading to an operating device to operate said spur gear in one direction, and spring actuated mechanism to operate said spur gear in the opposite direction, whereby said curtain is caused to wind from one roller to the other roller.

1,391,938. PISTON. WILLIAM M. CARLIN, Indianapolis, Ind. Filed Aug. 28, 1920. Serial No. 406,617. 3 Claims. (Cl. 103—63.)

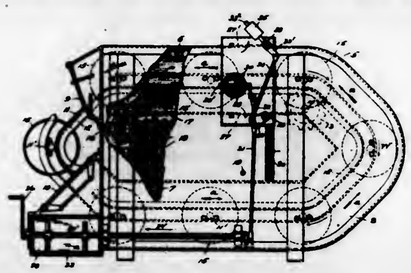


1. A pump construction including a cylinder, a piston having a chambered body portion, expansible packing means seatable in said piston body portion and bearable on said cylinder, means for introducing fluid into said chambered body portion to expand said packing means into contact with the cylinder upon one stroke of the piston, including valve means for supplying fluid upon the return stroke of the piston to said chambered body portion and closing upon the first mentioned stroke of said piston, and plug means associated with said piston and having a channel therein providing communication between said chambered body portion and said pump cylinder, said valve means being provided with a valve stem and said plug means slidably supporting said valve stem.

1,391,939. VENTILATING APPLIANCE FOR CLOTHES-DRYING MACHINES. CHARLES W. COLLINS, Seattle, Wash. Filed Nov. 20, 1919. Serial No. 339,379. 6 Claims. (Cl. 34—12.)

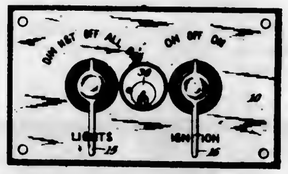
5. In a ventilator for clothes drying-machines, the combination with a drying chamber having an air inlet at one end, an air outlet at the other end and a second outlet intermediate the length of said chamber, a suction fan, pipe connections between each of said outlets and the fan, and valves for the respective pipe connections, of a screen gate provided interiorly of the drying chamber, and means for operating said gate to position the same alternately

across the second named outlet and across the chamber between the two outlets, said means being connected with



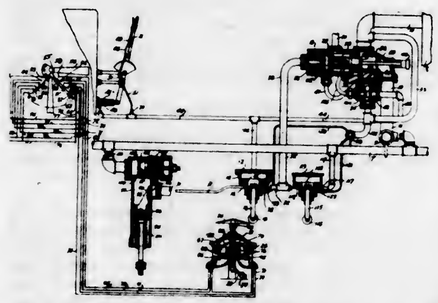
said valves whereby the said fan is rendered operative to effect the passage of air through said gate in both of the aforesaid positions thereof.

1,391,940. LOCK FOR SWITCHES AND THE LIKE. OLIVER F. CONKLIN, Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind., a Corporation of Indiana. Filed Nov. 29, 1916. Serial No. 134,000. 11 Claims. (Cl. 70—14.)



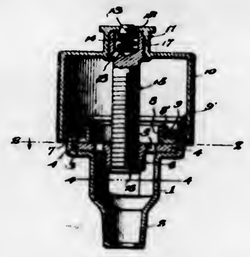
1. In a lock for locking controlling devices in switches and the like having movable controlling elements, the combination with a movable key controlled member; of means coöperating therewith for locking or unlocking said elements when the key controlled member is moved to key retaining position, said means having provisions whereby the key controlled member may be restored to position for key removal while the controlling elements remain unlocked; and leaf spring means for yieldingly maintaining the key controlled member in key retaining position.

1,391,941. TRAIN-CONTROL APPARATUS. JOHN S. CRAWFORD, New London, Conn. Original application filed Dec. 26, 1917, Serial No. 208,779, Patent No. 1,362,927, dated Dec. 21, 1920. Divided and this application filed Dec. 21, 1920. Serial No. 432,182. 10 Claims. (Cl. 246—202.)



5. In a device of the character described, a trip for actuating the control member of an automatic train stop, and a track motor for positioning said trip in the path of the control member comprising a vertically reciprocating plunger supporting the trip member, an armature on said plunger, a field structure surrounding said armature, slidable electrical connections to the movable armature, means for relatively reversing the connections between the armature and field, an adjustable counterbalance for the armature structure, and a hood carried by the movable armature structure covering the armature and the sliding connections aforesaid.

1,391,942. LUBRICANT-NIPPLE. NORMAN W. CUMMINS, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Mar. 26, 1921. Serial No. 455,731. 8 Claims. (Cl. 184—38.)



2. In a grease cup, a body having a seat, a spider on the seat, the body having its upper end bent to clamp the spider onto its seat and to form a second seat, a packing ring on the second seat, said upper end of the body being further bent to clamp said ring on said second seat, a cup engaged over and with the packing, and a lead screw borne by the cap and threaded through the spider.

1,391,943. LACE. LAWRENCE DINKELSPIEL, West New York, N. J. Filed Dec. 10, 1919. Serial No. 343,822. 9 Claims. (Cl. 2—146.)



1. Strip lace embodying a plurality of contiguous consecutive relatively nonextendible portions positioned in successive sequence, and extendible binding portions binding the relatively nonextendible portions together.

1,391,944. RELAY. FRANK L. DODGSON, Rochester, N. Y., assignor to General Railway Signal Company, Gates, N. Y., a Corporation of New York. Filed Mar. 31, 1917. Serial No. 158,821. 12 Claims. (Cl. 173—259.)

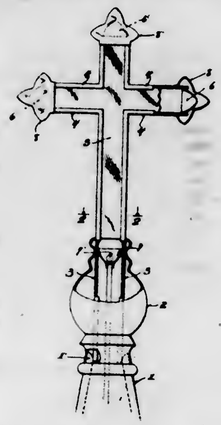
10. In a relay construction, a supporting panel having squared recesses formed on opposite sides thereof by projecting flanges, blocks of insulating material disposed on opposite sides of said panel and fitting in said recesses, said blocks and said panel having alined holes therein, a binding post passing loosely through said holes with an air space between it and the walls of said holes, one of said blocks having a groove formed in one of its faces extending outward from the holes therein to the outer

edge, one of said flanges having an opening therein alined with said groove, whereby a passageway is formed con-



necting the air space around said post with the outside air, and means for clamping the binding post in place between said blocks.

1,391,945. ILLUMINATED CRUCIFIX. PHILLIPP F. FLAGGE, Green Bay, Wis. Filed Mar. 8, 1921. Serial No. 450,767. 2 Claims. (Cl. 240—2.)



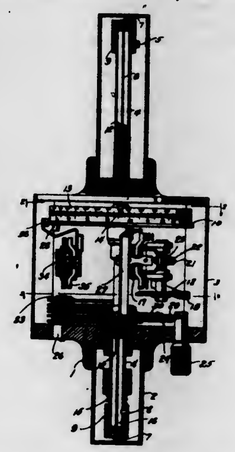
2. An illuminated cross comprising a standard, metallic side panels extending from the standard, the same being merged into parallel horizontal sections to form cross arms, front and rear glass plates fitted to the flanges of the channel irons, a master reflector at the base of the cross stem, other reflectors at the ends of the cross arms and the top of the stem, and a lamp nested within the base reflector for diffusing light throughout the cross structure in conjunction with the series of reflectors at the top of the stem and the ends of the aforesaid cross arms.

1,391,946. BULK-CARGO CARRIER. HUGO P. FREAR, Bethlehem, Pa., assignor to Bethlehem Shipbuilding Corporation, Ltd., Bethlehem, Pa., a Corporation of Delaware. Filed Apr. 15, 1920. Serial No. 374,074. 36 Claims. (Cl. 114—73.)



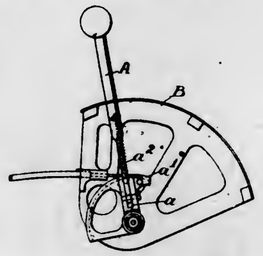
1. In a bulk cargo vessel of the character described, longitudinally extending, vertical trimming bulkheads on opposite sides of the center line extending in a fore and aft direction for any desired length of the hold, the distance between said trimming bulkheads being substantially less than the width of the cargo hold, and the height of said bulkheads being less than the distance between the bottom of the hold and the deck, whereby upper and lower openings are formed.

1,391,947. ELECTRICALLY-OPERATED TIMING APPARATUS. EDGAR W. GENT, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a Corporation of New York. Filed Jan. 29, 1921. Serial No. 441,091. 10 Claims. (Cl. 161—1.)



7. In a device for timing a series of electrical impulses, a time recording mechanism, a catch member to prevent the operation of said mechanism, a stepping magnet operated by said electrical impulses, and a stop magnet controlled by said stepping magnet to operate said catch member at the first and last of said series of impulses to respectively start and stop said time recording mechanism.

1,391,948. LEVER-CONTROL MECHANISM. ARTHUR HENRY GLEDHILL, Halifax, England. Filed Dec. 13, 1918. Serial No. 266,601. 1 Claim. (Cl. 74—39.)



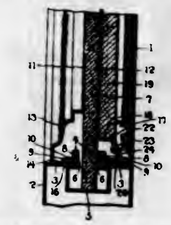
In lever control mechanism, the combination of a plate having a slot formed with ratchet teeth at each side, staggered in relation to one another, to form a continuity of inclined and transverse passages, a quadrant pivoted to move in a longitudinal direction in relation to such slot, a lever pivoted to the quadrant in such manner as to be capable of moving at right angles to the movement of the quadrant, and a spring connected at one end to the lever, and at the other end to the quadrant.

1,391,949. SHEET-METAL DOOR. HENRY R. GOGAY, Columbus, Ohio, assignor to Solar Metal Products Company, Inc., New York, N. Y., a Corporation of New York. Filed Mar. 17, 1917. Serial No. 155,501. 2 Claims. (Cl. 189—53.)



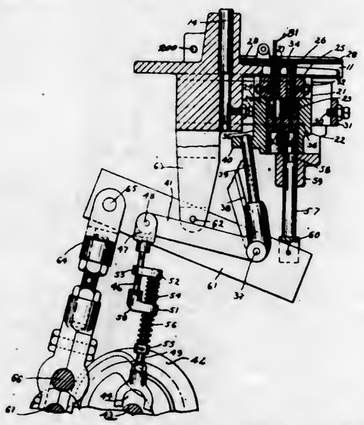
1. A sheet metal door comprising, a panel member having moldings formed integral therewith, said moldings being connected to form a continuous molding surrounding the periphery of said panel member and provided with inwardly turned flanges, stile and rail sections having longitudinal flanges, clamping members interposed between said flanges and arranged to slidably engage the flanges of the panel member to interlock the stile and rail sections to the panel member.

1,391,950. SHEET-METAL DOOR. HENRY R. GOGAY, Columbus, Ohio, assignor to Solar Metal Products Company, Inc., New York, N. Y., a Corporation of New York. Original application filed Mar. 17, 1917, Serial No. 155,501. Divided and this application filed Feb. 11, 1919. Serial No. 276,410. 4 Claims. (Cl. 189—53.)



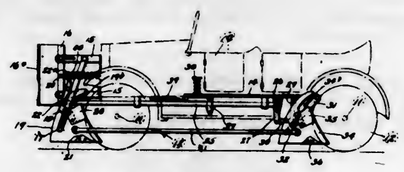
1. A panel having a lateral wall and a continuous peripheral molding formed integral therewith, said molding and wall being offset from the panel to form a recess for the reception of a mirror or other member and a removable means for holding the mirror in the recess and in intimate contact with the panel.

1,391,951. PIERCING AND NAILING MECHANISM FOR HEEL-BUILDERS. GEORGE B. GROVER, Lynn, Mass., assignor to W. J. Young Machinery Company, Lynn, Mass., a Corporation of Massachusetts. Filed Aug. 2, 1919. Serial No. 314,946. 10 Claims. (Cl. 1—33.)



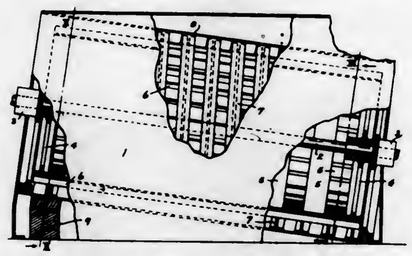
1. A heel building machine comprising supporting and gaging means arranged to define a space in which lifts may be assembled in position to form a heel, a piercing tool, a nail driver, and guiding means for said tools arranged to guide the latter across one end of said space in such manner that the tools may be placed alternately in a given operative position, whereby the piercing tool may be first actuated to open a passage through the assemblage of lifts and the driver may be subsequently operated to drive a nail into such passage.

1,391,952. AUTOMATIC SAFETY APPLIANCE FOR MOTOR-VEHICLES. MICHAEL JOSEPH HAGERTY, St. Louis, Mo. Filed Sept. 17, 1920. Serial No. 410,835. 7 Claims. (Cl. 180—83.)



1. The combination with a vehicle, of supporting members mounted thereon in a normally inoperative position and adapted to be moved into a supporting position on the ground, said supporting members being provided with seats for receiving the axles of said vehicle, laterally projecting lugs fixed on said members and designed to be engaged by the wheels of the vehicle when said supporting members are positioned on the ground whereby the vehicle is raised out of contact with the ground and the axles are seated in the axle seats of said members.
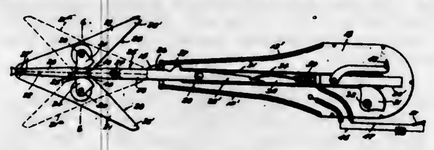
1,391,953. METHOD OF TREATING CANNED FOODS. OSWALD H. HANSEN, Port Washington, Wis., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Filed Nov. 9, 1918. Serial No. 261,791. 3 Claims. (Cl. 99—8.)



3. The method of sterilizing food, which comprises, hermetically sealing batches of the food in cylindrical metallic containers, gradually advancing the food laden containers endwise through a zone of uniform dry heat, and rotating the containers about their longitudinal axes while maintaining these axes inclined in the direction of advancement and at a constant angle relatively to a horizontal plane throughout the entire heating operation.

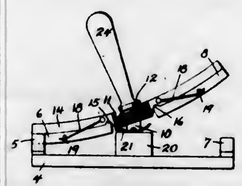
1,391,954. AUTOMOBILE DIRECTION-SIGNAL. WILLIAM S. HARRIS, WILLIAM CRONAN, and FRANK I. JACKSON, Bremerton, Wash. Filed Mar. 15, 1921. Serial No. 452,579. 4 Claims. (Cl. 116—50.)

1. In apparatus of the class described, the combination of a casing, means for securing the same at a side of an automobile, a rod pivotally connected to said casing, a frame connected to said rod, a pair of triangular plates pivotally connected to said frame and operatively connected to said plates, a bar movable longitudinally thereof in said casing, a lever fulcrumed to said bar, one end of said lever being pivotally connected to said rod, a spring carried by said bar and tending to maintain said lever in parallel relations with said bar,



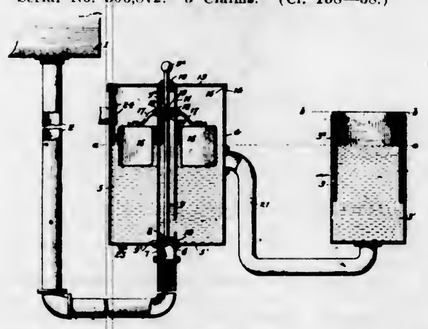
and means to impart longitudinal movements to said bar whereby said lever and rod influence said plates to afford direction indicative positions thereto.

1,391,955. ELECTRIC SWITCH. EDWARD VASSALLO HARTFORD, Deal, N. J. Original application filed Aug. 27, 1914, Serial No. 858,959. Renewed Oct. 19, 1918, Serial No. 258,909. Divided and this application filed Oct. 31, 1918. Serial No. 260,456. 2 Claims. (Cl. 200—1.)



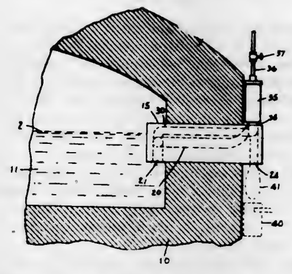
1. An electric switch comprising an insulating base, uprights mounted centrally thereon, an insulating block pivotally mounted in the upright, contact carriers having lateral extensions from each side of the block, each carrier being in electrical contact with an upright, a contact pivoted to each of said extensions, a spring connecting each contact with its extension and fixed contacts on the base to frictionally coöperate with the first mentioned contacts whereby a quick break may be obtained when the spring is tensioned.

1,391,956. AUTOMATIC FUEL-SUPPLY-REGULATING MEANS FOR HYDROCARBON-BURNERS. JAMES HENRY HOLLAND, Stuttgart, Ark. Filed June 26, 1919. Serial No. 306,872. 3 Claims. (Cl. 158—38.)



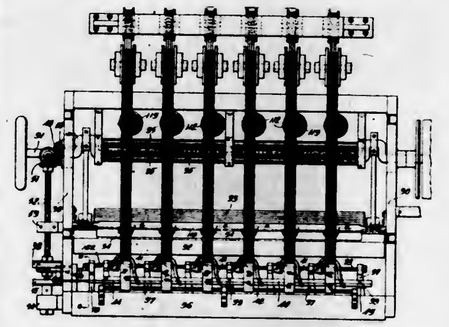
1. The combination with a hydrocarbon chamber, a liquid fuel reservoir and a pressure pipe line for conveying liquid fuel from the reservoir to the burner, of automatic fuel supply regulating means including a closed casing providing a fuel distributing chamber having an inlet opening in its bottom wall, said pressure pipe line leading to said opening, a conduit leading from the chamber to the reservoir of the hydrocarbon burner, a reciprocating valve for the inlet opening in the bottom of the chamber provided with a valve stem extending through the top wall of the casing a substantial distance outside of the same and provided with an operating knob or finger piece, the valve stem having a threaded portion intermediate its ends, a block having a threaded opening adjustably engaging the threaded portion of the stem, a guide on the casing and slidably supporting the upper part of the valve stem, an annular float in the chamber surrounding the valve stem, a tubular stem extending longitudinally of and secured to the casing, and levers pivoted intermediate their ends to the tubular stem, the outer ends of the levers being pivotally connected with the float and the inner ends of the levers being connnected with said block, the connection between the valve operating levers and valve stem being adjustable by the rotation of the valve stem through the operating finger piece or knob on the valve stem.

1,391,957. GLASS-DISCHARGING MECHANISM. EDWARD S. HUTTON, Lapel, Ind. Filed Mar. 26, 1920. Serial No. 368,867. 3 Claims. (Cl. 49—55.)



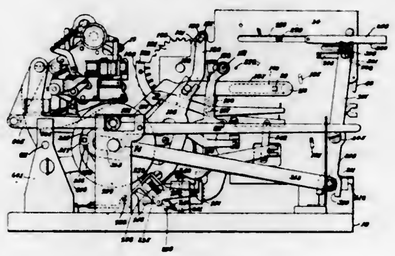
1. Discharge means for a glass tank, including a discharge member adapted to extend through the wall of the glass tank and beyond the inner and outer surfaces thereof, and having a glass conduit leading from the bottom of the inner end of said member upwardly and thence horizontally to the outer end of said member and thence upwardly to a point slightly above the normal level of the glass in the tank and thence downwardly to the discharge outlet, and an air conduit leading from the outer end of said member horizontally to the inner portion of said glass conduit, and means for introducing air under pressure in said air conduit.

1,391,958. NEEDLE-LOOM. SOLOMON KENDRICK, Chelsea, Mass., assignor to Everlastik, Incorporated, Boston, Mass., a Corporation of Massachusetts. Filed Jan. 5, 1921. Serial No. 435,155. 14 Claims. (Cl. 139—20.)



6. In a needle loom, an oscillatory needle and means for operating it to lay a loop of weft thread in the shed, in combination with an oscillatory shuttle arranged to enter and pass a selvage thread through said loop, and movable about a horizontal axis transverse to and below the warp.

1,391,959. TRANSFER OR CARRY-OVER MECHANISM. WILLIAM W. LASKER, Brooklyn, N. Y., assignor to Powers Accounting Machine Company, New York, N. Y., a Corporation of Delaware. Filed Apr. 3, 1918. Serial No. 226,493. 31 Claims. (Cl. 235—133.)

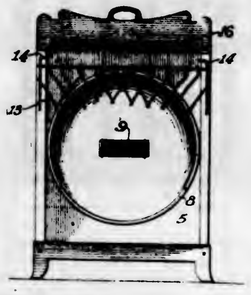


8. A printing tabulator mechanism comprising a printing mechanism, a tabulating mechanism comprising an accumulating carriage, accumulative elements carried thereby, reciprocating members for actuating the accumulative elements, a carry-over mechanism set in operation by the accumulator elements and engaging the reciprocating members for moving them, said carry-over mechanism comprising rockable levers adapted to engage the reciprocating members and a reciprocating cam plate for operating the rockable levers, and means for reciprocating the cam plate, said means comprising a rack bar carried by the plate, a pinion in mesh therewith and means for sliding the said pinion.

23. In an apparatus of the character described, the combination of an adding mechanism comprising actuating bars and a carrying mechanism adapted to positively kick back one or more of said bars when carrying is effected; and a spring pressed restoring slide slidably mounted to engage each bar and adapted to yieldably hold said bar inwardly.

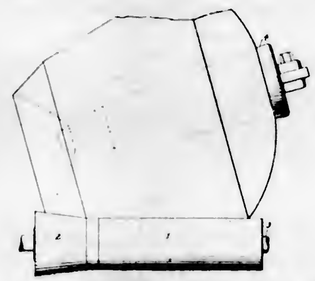
31. In an apparatus of the character described, the combination of a reciprocatory accumulator carriage: accumulator gear wheels carried on said carriage; adding elements operatively connected to the accumulator gear wheels and provided with a shoulder; settable levers fulcrumed on said carriage and adapted to be set by the accumulator wheels; latches for holding the settable levers set; a carrying bar operatively connected to the setttable lever and adapted when the settable lever is set to be in position to engage said shoulder; and stationary means for positively releasing said latches.

1,391,960. ELECTRIC HEATER. RICHARD G. LEDIG, Philadelphia, Pa., assignor to A. Mecky Company, Philadelphia, Pa., a Corporation of Pennsylvania. Filed Oct. 25, 1920. Serial No. 419,172. 4 Claims. (Cl. 219—34.)



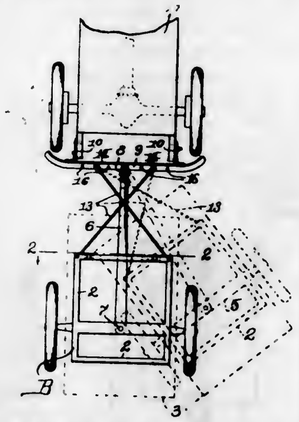
3. An electric heater comprising in combination, a casing open in front, a recessed partition within said casing, a reflecting member secured within the recess in said partition, ears secured to said reflecting member, and a heating element positioned entirely within said casing and partially within said reflecting member and secured to said reflecting member by the above mentioned ears.

1,391,961. COP-CONE. JOHN O. MCKEAN, Westfield, Mass., assignor to Foster Machine Company, Westfield, Mass., a Corporation of Massachusetts. Filed Sept. 22, 1920. Serial No. 411,968. 4 Claims. (Cl. 242—43.)



3. In a winding machine, the combination with a driving roll divided into a cylindrical member and a flaring member, of a rigid cop cone, its winding surface having a gradual taper opposite the cylindrical member terminating at its smaller end in a steeper taper in the same direction opposite the flaring member.

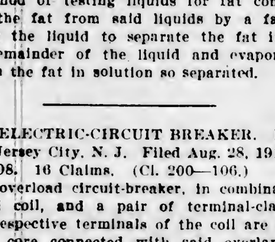
1,391,962. TRAILER CONNECTION. WALLIE C. MANGEL, Fairfax, Minn. Filed Jan. 27, 1919. Serial No. 273,659. 3 Claims. (280—33.4.)



1. In a trailer for vehicles, the combination with a bumper secured to and extending beyond the rear end of an automobile chassis, of a rigid tongue pivotally secured by one end centrally to the trailer and its free end being adjustably and swivelly connected to the bumper, and flexible steering connections between said trailer and bumper.

1,391,963. STEERING AND COUPLING DEVICE FOR PLOWS. EDGAR T. MILLER, Greensburg, Pa. Filed Jan. 29, 1921. Serial No. 441,008. 4 Claims. (Cl. 213—67.)

1. In a steering device of the class described comprising a coupling plate adapted to be connected to the rear of a tractor, a rotating member carried by said plate, a steering post and coöperating gearing at the lower end thereof for operating said rotating member, a draw bar



straddling said member and pivotally connected forwardly thereof to the coupling plate, and means for angling said draw bar upon rotation of the steering post and said rotating member.

1,391,964. HEADREST FOR HAMMOCKS. HARRY MINTZ, Mattapan, Mass. Filed Oct. 8, 1920. Serial No. 415,541. 3 Claims. (Cl. 5—43.)

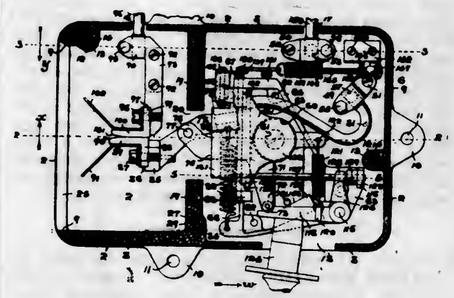
1. A head rest for use with a couch device having a mattress supporting frame provided with longitudinally and transversely extending spring forming elements, said head rest comprising a mattress engaging frame pivotally supported adjacent one end for angular adjustment, and a brace member pivoted to said head rest and comprising an integrally formed downwardly projecting toe constructed and arranged selectively to engage various of said transversely extending elements.

1,391,965. PROCESS OF TESTING MILK AND MILK PRODUCTS. JULIUS JOHN MOJONNIER, Oak Park, Ill., assignor to Mojonnier Bros. Co., Chicago, Ill., a Corporation of Illinois. Filed Feb. 6, 1920. Serial No. 356,666. 7 Claims. (Cl. 23—30.)

7. A method of testing liquids for fat consisting in extracting the fat from said liquids by a fat solvent, centrifuging the liquid to separate the fat in solution from the remainder of the liquid and evaporating the solvent from the fat in solution so separated.

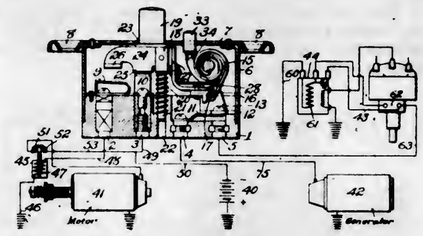
1,391,966. ELECTRIC-CIRCUIT BREAKER. EDVARD M. MOLLER, Jersey City, N. J. Filed Aug. 28, 1919. Serial No. 320,508. 16 Claims. (Cl. 200—106.)

1. In an overload circuit-breaker, in combination with an overload coil, and a pair of terminal-clamps with which the respective terminals of the coil are connected, a magnetic core connected with said overland coil, a switch-arm oscillatorily mounted upon said core, a spring-controlled contact-lever connected with said switch-arm, a contact-tip carried by said switch-arm, a fixed contact-tip with which said first-mentioned contact-tip is normally in contact, a clamping element carried by said contact-lever, an electrical series-connection between said



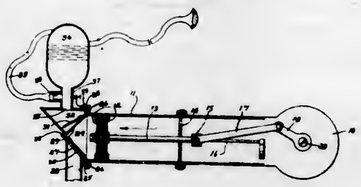
clamping element and one of said terminal clamps, and a tripping means for releasing said contact-lever and breaking the electrical contact between said contact-tips.

1,391,967. ELECTRICAL APPARATUS. WILLIAM B. MOSES, Brookline, Mass. Filed Mar. 6, 1917. Serial No. 152,542. 16 Claims. (Cl. 290—37.)



1. In apparatus of the character described, in combination, an ignition device for an internal combustion engine, a generator, an electric circuit including said ignition device and said generator and having means other than said generator for supplying current to said ignition device, and a thermostatic device in circuit adapted to be influenced by predetermined current values to automatically alter the operative condition of said circuit, and means for manually effecting such alteration in circuit conditions.

1,391,968. AUTOMOBILE-ACTUATED PUMP. WIGO G. NYMON, Fargo, N. D. Filed Mar. 5, 1921. Serial No. 449,819. 1 Claim. (Cl. 103—65.)



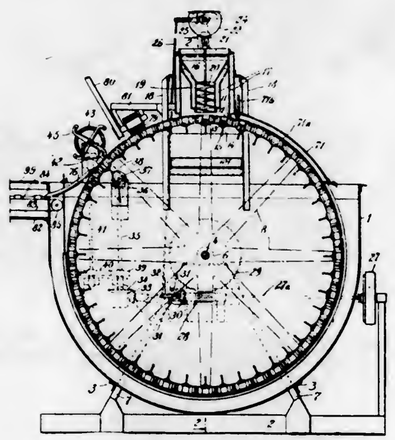
A pumping attachment for automobiles comprising a cylinder having a connected crank case, means for sup-

porting the attachment on the running board of an automobile, the cylinder at its opposite end from the crank case being provided with an approximately triangular head formed with an outlet and an inlet opening, a pipe leading from the inlet opening of the head, an inlet flap valve controlling the passage through the inlet opening, an outlet flap valve controlling passage through the outlet opening, a substantially triangular casing detachably engaged with the face of the head having the outlet flap valve, said casing having an outlet opening, a discharge pipe operatively connected with the outlet opening, a piston operating within the cylinder, a crank within the crank case, a connection between the piston and crank, and means for detachably connecting the crank to the driving shaft of an automobile.

1,391,969. ASPHALT PACKAGE AND METHOD OF MAKING THE SAME. FREDERICK C. OVERBURY, Hillsdale, N. J., and CHESTER E. RAHA, Brookline, Mass., assignors to The Flintkote Company, Boston, Mass., a Corporation of Massachusetts. Filed May 8, 1918, Serial No. 233,267. Renewed Mar. 9, 1921. Serial No. 450,937. 9 Claims. (Cl. 23—11.)

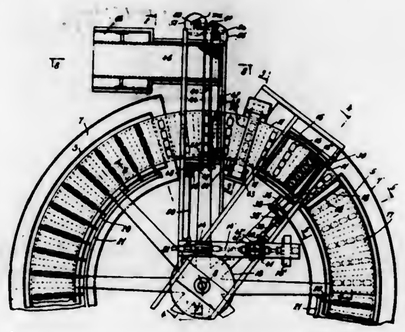
3. A method of packaging asphaltic material, which consists in introducing a flexible fibrous envelop into, and as the lining of, a removable form, then molding said asphaltic material in said form and envelop, and removing said form, leaving the envelop adhering to the molded mass.

1,391,970. APPARATUS FOR MOLDING SOAP. CECIL O. PHILLIPS, New York, N. Y., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed June 5, 1920. Serial No. 386,912. 15 Claims. (Cl. 18—26.)



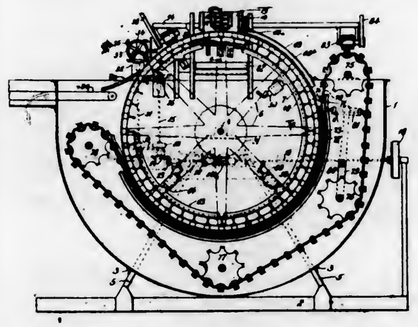
1. An apparatus for molding and cooling soap, comprising a series of molds for individual cakes of soap cylindrically arranged and opening radially outward, means for filling the molds with molten soap, means for moving the molds through a cooling liquid and relatively with respect to the liquid whereby to subject the molds to the action of continuously changing liquid, and means in connection with the molds for protecting the soap from direct contact with the liquid.

1,391,971. APPARATUS FOR MOLDING SOAP. CECIL O. PHILLIPS, New York, N. Y., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed June 5, 1920. Serial No. 386,913. 20 Claims. (Cl. 18—26.)



1. An apparatus for molding and cooling soap comprising a plurality of molds, means for moving the molds about a vertical axis, means for filling the molds with molten soap and means for conveying the molds in indirect contact with a cooling liquid.

1,391,972. METHOD AND APPARATUS FOR MOLDING SOAP. CECIL O. PHILLIPS, New York, N. Y., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed Aug. 5, 1920. Serial No. 401,330. 8 Claims. (Cl. 18—26.)

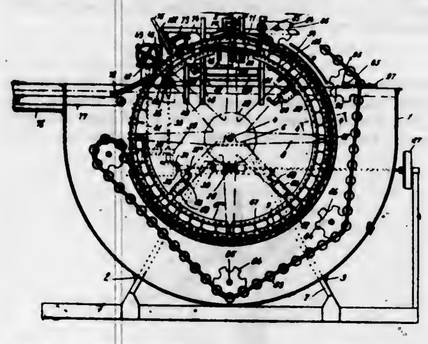


1. The method of molding, cooling and pressing soap, in order to convert the soap into the form of compressed cakes, which comprises charging the molten soap into molds for the individual cakes of soap, passing the molds through cold brine without direct contact of the brine with the soap, subjecting the soap while in the molds to a sufficient degree of cooling to effect solidification, and to a sufficient degree of pressure to effect the pressing of the cooled soap, the cooling and pressing operations being so regulated as to give a cooled and pressed cake of soap, and removing the cake of soap thus produced from the molds.

1,391,973. APPARATUS FOR MOLDING SOAP. CECIL O. PHILLIPS, New York, N. Y., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed Feb. 24, 1921. Serial No. 447,403. 6 Claims. (Cl. 18—26.)

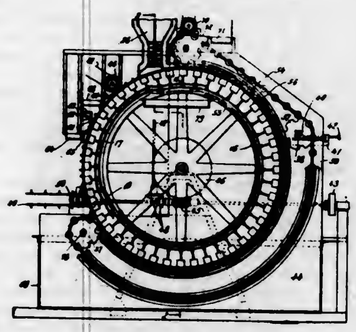
1. An apparatus for molding and cooling soap, comprising a cylindrically arranged series of molds for individual

cakes of soap, said molds opening outwardly, means for filling the molds with molten soap, means for conveying the molds through a cooling liquid, and means traveling



with the molds for closing them and protecting the soap therein from direct contact with the liquid while immersed therein.

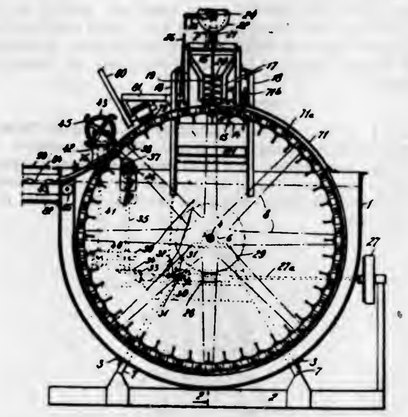
1,391,974. APPARATUS FOR MOLDING AND COOLING SOAP. CECIL O. PHILLIPS, New York, N. Y., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Filed Mar. 5, 1921. Serial No. 449,709. 8 Claims. (Cl. 18—26.)



1. In a soap machine, a series of molds, means for moving the molds over a continuous path in succession, feeding means adjacent to such path for forcing molten soap into the molds as they pass the feeding means, means for ejecting the soap from the molds, cover plates for the molds, means for mounting the plates to move along a path adjacent to that traveled by the molds between the feeding means and the ejecting means, and in contact with the molds, interlocking means for constraining the plates to engage the molds in a predetermined relation and to travel with the molds in such relation, and means for spraying the molds and cover plates with a cooling liquid as they travel together.

1,391,975. METHOD FOR MOLDING AND COOLING SOAP. CECIL OCTAVIOUS PHILLIPS, New York, N. Y., assignor to The American Cotton Oil Company, New York, N. Y., a Corporation of New Jersey. Original application filed June 5, 1920, Serial No. 386,912. Divided and this application filed June 25, 1921. Serial No. 480,459. 5 Claims. (Cl. 18—38.)

1. The method of molding and cooling soap which comprises charging the soap into molds, subjecting the molds to the action of cold brine without direct contact of the brine with the soap, and thereby effecting a preliminary



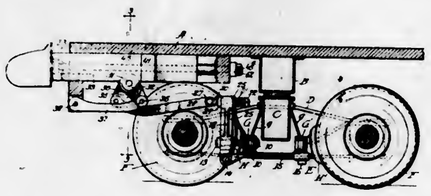
cooling of the soap in the molds, removing the soap from the molds and subjecting it to further cooling in direct contact with the cold brine.

1,391,976. VALVE-OPERATING MECHANISM FOR VAPOR-BURNERS. OSBORNE E. QUINTON, Chicago, Ill. Filed June 18, 1920. Serial No. 390,010. 11 Claims. (Cl. 158—33.)



1. In a reservoir having a filling connection and a normally fixed outlet connection and adapted to contain fuel under pressure, a valve controlling the outlet connection of said reservoir to prevent the escape of air, and a gravity valve operating member insertible through the filling connection of said reservoir and detachably supported therein to swing in an arc and automatically operate said valve.

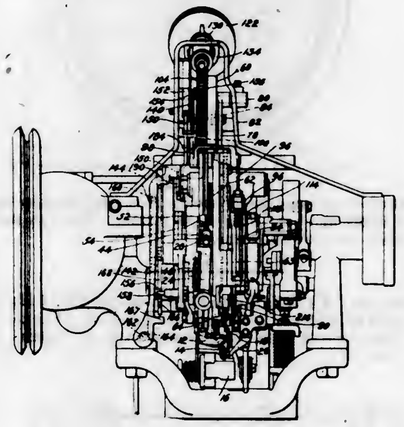
1,391,977. BRAKE MECHANISM FOR RAILWAY-CARS. JOSEPH REIF, Hebron, Ind., assignor of forty-five per cent. to Francis E. Ling, Hebron, Ind. Filed June 1, 1920. Serial No. 385,482. 7 Claims. (Cl. 188—168.)



1. In brake mechanism for railway cars, the combination of a brake beam and brake shoes, of a longitudinally

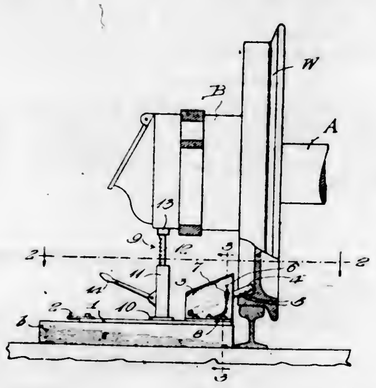
movable draw bar, pressure mechanism tending to hold said draw bar at a point intermediate the limits of its movement, connections between said draw bar and the brake beam whereby the brake shoes are applied to the wheels when the draw bar is at such point and whereby the brake shoes are released when the draw bar is shifted, and means whereby said draw bar may be manually shifted.

1,391,978. SEWING-MACHINE. WILLIAM THOMAS BUCKINGHAM ROBERTS, Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J., a Corporation of New Jersey. Filed Nov. 17, 1916. Serial No. 131,905. 12 Claims. (Cl. 112—35.)



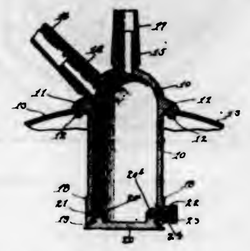
12. A sewing machine, having in combination, stitch forming devices including a looper, a looper threading mechanism, and means to operate the threading mechanism to thread the looper while the shoe remains in sewing position.

1,391,979. JACK-BLOCK AND CAR-WHEEL CLAMP. CLOID E. RODGERS, Logansport, Ind. Filed Aug. 25, 1920. Serial No. 405,987. 2 Claims. (Cl. 254—33.)



1. A wheel clamp comprising a base plate adapted to support a lifting jack, an inverted U-shaped housing detachably connected to said plate and provided with pairs of alined apertures, a clamp bar having one of its ends pivotally mounted within the housing and provided at its other ends with means to grip a wheel ball, and a pin adapted to be inserted into said apertures for bridging the interior of the housing and limiting the swinging movement of the bar upwardly.

1,391,980. MILKING-MACHINE. NEALON D. RUTHERFORD, Lansing, Mich., assignor to United Engine Company, a Corporation of Michigan. Filed Sept. 25, 1920. Serial No. 412,748. 6 Claims. (Cl. 31—98.)



1. In a valve mechanism for milking machines, the combination of a chamber provided with outlets leading to a vacuum producing device and to a teat cup, said chamber being provided with a downwardly opening lower extremity, a valve seat adjacent said lower extremity, a valve for coöperating with said seat at the lower extremity of the chamber and comprising a substantially circumferential member having a peripheral seat face thereon adapted to coöperate with the valve seat on the chamber, a vertically extending member above said valve face, said vertically extending member on said valve being undercut, and means secured to the wall of the chamber on the interior thereof adapted to extend into the undercut portion of the extension on the valve to secure the latter in its normal working position.

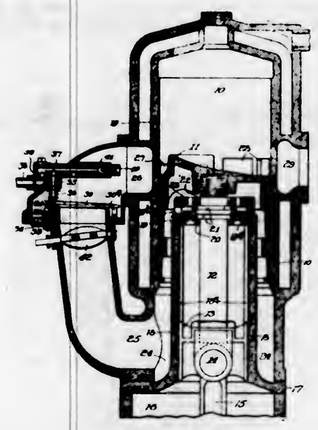
3. In a valve mechanism for milking machines, the combination of a chamber provided with outlets leading to a vacuum producing device and to a teat cup respectively, said chamber being provided with a downwardly opening lower extremity, a valve seat adjacent said lower extremity and formed integrally therewith, a valve for coöperating with said seat comprising a substantially circumferential member having a peripheral seat face thereon adapted to coöperate with the valve seat at diametrically opposite portions thereof adapted to extend on the interior of the chamber when the valve is in working position, and means secured to the wall of the chamber on the interior thereof adapted to coöperate with said vertical extensions to secure the valve in its normal working position.

4. In a valve mechanism for milking machines, the combination of a chamber provided with outlets leading to a vacuum producing device and to a teat cup respectively, said chamber being provided with a downwardly opening lower extremity, a valve seat adjacent said lower extremity, a valve seat adjacent said lower extremity and formed integrally therewith, a valve for coöperating with said seat comprising a substantially circumferential member having a peripheral seat face thereon adapted to cooperate with the valve seat on the chamber, vertical extensions on the valve at diametrically opposite portions thereof adapted to extend on the interior of the chamber when the valve is in working position, and means secured to the wall of the chamber on the interior thereof adapted to coöperate with said vertical extensions to secure the valve in its normal working position comprising a pin fixed in the wall of the chamber and a second pin screw threaded and being adjustably secured in the chamber wall.

5. In a valve mechanism for milking machines, the combination of a valve chamber, a valve seat surrounding an opening in the chamber wall, a valve coöperating with said seat, said valve being provided with vertical extensions on diametrically opposite sides of the valve and said vertical extensions being provided with laterally extending sockets, a pin fixed in the wall of the chamber and extending to the interior thereof for coöperating with one of the sockets on the vertical extension on the valve and a second pin adjustably secured in the wall of the chamber and extending to the interior and being adapted to coöperate with the socket of an extension on the valve to retain the valve in its normal working position.

6. In a valve mechanism for milking machines, the combination with a chamber provided with a valve seat, a valve adapted to coöperate with said seat, said valve being provided with diametrically located vertical extensions each of which have laterally opening sockets therein, a fixed pin on the interior wall of the chamber for cooperating with one of the sockets of the valve, a member screw threaded in the chamber wall and a screw threaded pin adapted to coöperate with said screw threaded member for engaging the socket in the other vertical extension of the valve to retain the valve in its normal working position.

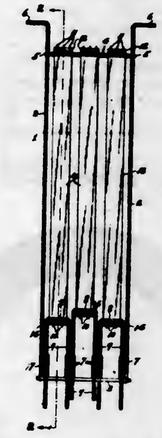
1,391,981. INTERNAL-COMBUSTION ENGINE. JOHN F. SANDELL, Chicago, Ill. Filed Oct. 25, 1919. Serial No. 333,222. 7 Claims. (Cl. 123—74.)



1. In an internal combustion engine, a cylinder, means for compressing air for said engine cylinder, a passage from said means to said cylinder, a throttle in said passage, a fuel nozzle in said passage between the throttle and cylinder, and means for ejecting fuel from said nozzle after part of the air in said passage has been passed into the cylinder.

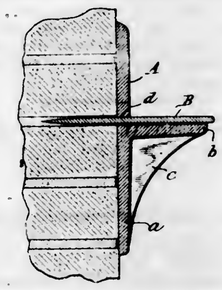
1,391,982. PHOTOGRAPHIC-FILM-SUPPORTING FRAME. GEORGE I. SCHREIBER, Newark, N. J. Filed Sept. 21, 1920. Serial No. 411,709. 4 Claims. (Cl. 95—100.)

1. In a device of the kind described, a frame comprising side rods, a top bar and a bottom bar, upwardly projecting piercing pins connected with said top bar upon which one end of a film strip may be engaged, and adjustable film strip engaging means connected with said bottom bar, said engaging means having downwardly projecting piercing pins upon which the opposite end of a film strip may



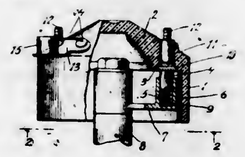
be fastened, said engaging means being movable longitudinally to stretch tautly the body of said film strip.

1,391,983. SCAFFOLD-BRACKET. KARL R. SCHUSTER, Brooklyn, N. Y. Filed Nov. 10, 1915, Serial No. 60,682. Renewed Feb. 24, 1921. Serial No. 447,552. 5 Claims. (Cl. 304—33.)



1. A scaffold bracket comprising a body member provided with a shelf and a slot positioned above said shelf, and a wall-engaging member separate from said body member, said wall-engaging member being driven through the slot and a substantial part of said wall-engaging member being exposed above the shelf so as to be available in supporting a part of the load of the scaffold.

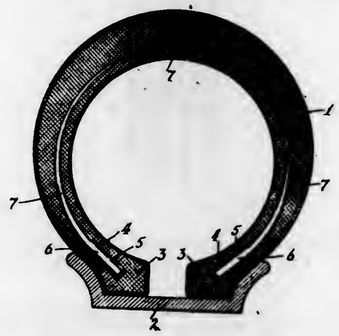
1,391,984. TIMER FOR INTERNAL-COMBUSTION ENGINES. JEROME F. SHERBINO, Mountain Lakes, N. J. Filed Oct. 15, 1919. Serial No. 330,818. 1 Claim. (Cl. 200—19.)



A timer comprising a conical cap having conical inner and outer surfaces, the said outer surface forming a

greater angle with the axis of the cap than said inner surface, so that said surfaces will diverge toward the base of the cap and will give the wall of the cap a thickness decreasing gradually toward the apex of the cap, the base of the cap having an internal surface transverse to said axis and contact members at said surface, and a casing extending from the outer portion of said base in the direction opposite to the cap, at a greater distance from the axis than said contact members.

1,391,985. SPRING-TIRE. GAETANO E. SIINO, Pittsburg, Calif. Filed May 16, 1921. Serial No. 469,832. 1 Claim. (Cl. 152—8.)



A spring-tire comprising a cushion body longitudinally open at its base; holding-rings embedded in the body base one on each side of its opening; and a plurality of spring members embedded in said body, the ends of said members being fitted into the holding rings, and said members thence extending and traversing the side and tread regions of the body.

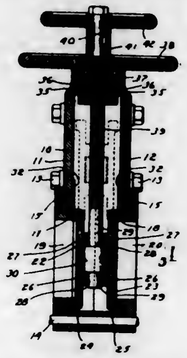
1,391,986. EDUCATIONAL APPLIANCE. KIRK D. SMITH, Wendell, N. H. Filed Jan. 22, 1921. Serial No. 439,314. 2 Claims. (Cl. 35—9.)



2. An educational device comprising a spindle, confining means spaced apart on the spindle, a plurality of disk-like sections having central apertures and arranged side by side between said confining means and around the spindle and bearing educational devices on their peripheries, and a continuous sleeve, of friction-creating material, extending between the confining means and through the plurality of side by side sections and resting snugly between and in contact with the spindle and the walls of the apertures in the sections, whereby the friction between the sleeve and each disk-like section is greater than the friction between adjacent disk-like sections.

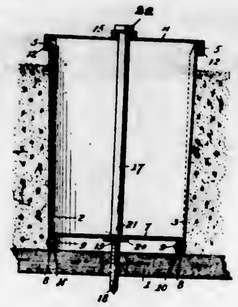
1,391,987. GATE-VALVE. WILLIAM B. SMITH WHALEY, Malden, Mass., assignor to American Whaley Engine Company, Boston, Mass., a Corporation of Massachusetts. Filed Nov. 23, 1917. Serial No. 203,517. 2 Claims. (Cl. 251—64.)

1. In a valve, the combination of a parted casing comprising two similar members adapted to be joined together to form a unit casing member provided with an elongated chamber, having an end or neck opening and oppositely disposed openings in the sides of said casing members provided with parallel valve seats surrounding said openings; a similar and independent valve for each of said oppositely disposed openings provided with a pair of cam retaining lugs; a valve stem interposed between said valve and having a screw threaded portion projecting through the neck portion of said unit casing and a cam portion engaged by said cam retaining lugs; a



hand wheel rotatably held in said neck and opening and against axial movement and engaging said screw threaded portion of said valve stem to move same axially therein; and an auxiliary hand wheel for said valve stem secured thereto to rotate therewith and adapted independently to rotate said stem and said cam thereof to cause the latter to wedge the said valves upon their respective valve seats or to release same therefrom.

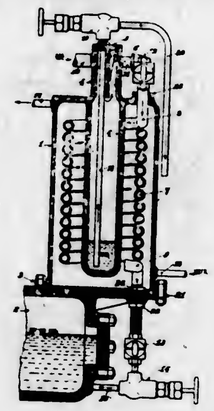
1,391,988. MOLD. RAYMOND P. ZENTS, Omaha, Nebr. Filed Apr. 27, 1920. Serial No. 377,036. 15 Claims. (Cl. 25—128.)



15. A mold comprising a sectional tapered sleeve, outwardly extending projections formed on the upper end of each section, a cover rotatably mounted on the top of the sleeve and adapted to engage the projections to reduce the diameter of the sleeve, an offset formed on the top of the cover, a cross-bar connecting the sections of the sleeve adjacent their lower ends, a threaded bolt extending through the offset on the cover and cross-bar, a washer carried by the threaded bolt and engaging the underface of the cross-bar, and a pin extending transversely through the bolt and engaging the under side of the washer.

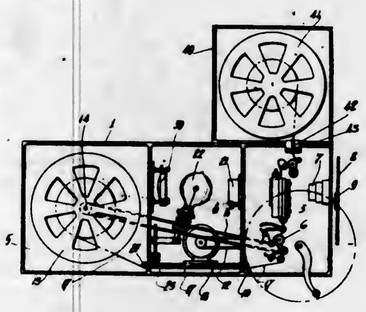
1,391,989. CONDENSER. FERDINAND JOSEPH ZOPPEL, Cincinnati, Ohio. Filed Dec. 13, 1919. Serial No. 344,595. 3 Claims. (Cl. 257—29.)

1. In condensing apparatus, a condensing chamber provided with an oil pocket having a closed bottom, said pocket embraced within and extending above the condensing chamber through an otherwise closed top, said chamber and pocket being formed as a single integral



structure provided with a lower flange adapting it to rest upon and be secured to the ammonia receiver as a bottom support and closure.

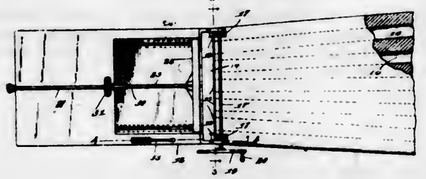
1,391,990. PORTABLE CINEMATOGRAPH-PROJECTOR. REGINALD IGNATIUS ATHERTON, North Finchley, England. Filed Aug. 24, 1920. Serial No. 405,713. 15 Claims. (Cl. 88—17.)



1. In a portable cinematograph projector, a casing, a series of separate compartments in the casing, projector mechanism in one compartment at the front of the casing, a take-up spool in a rear compartment, an illuminating device in a compartment between these two compartments and a channel connecting the front and rear compartments through which the film passes from the projector mechanism to the take-up spool.

1,391,991. GUN. CHESTER C. BELL, Galesburg, Ill. Filed Feb. 20, 1920. Serial No. 360,083. 2 Claims. (Cl. 89—9.)

1. In a device of the class described, a framework, a plurality of barrels mounted thereon and having their axes in an approximately horizontal plane, a plurality of firing devices, a transverse member for mounting said devices, means for moving the transverse member vertically into and out of operative position, a hammer engaging the firing devices simultaneously, the framework having a bore therein, a slidable element connected with the hammer, a spring encircling said element and abutting the framework at the end of the above, one end of the spring being fixed with reference to the slidable element,



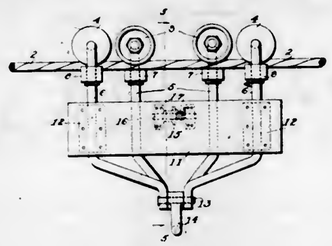
a lever, a rod pivoted to the lever and to the slidable element for moving the latter and the hammer outwardly and compressing the spring, and shell extracting means mounted in the framework.

1,391,992. PROTECTING OBJECTS FROM WAVE ACTION. PHILIP BRASHER, New York, N. Y. Filed Sept. 11, 1920. Serial No. 409,682. 5 Claims. (Cl. 61—6.)



1. An apparatus of the character stated, comprising a pair of perforated air discharge pipes, one pipe of appreciably smaller diameter than the other and located within the other.

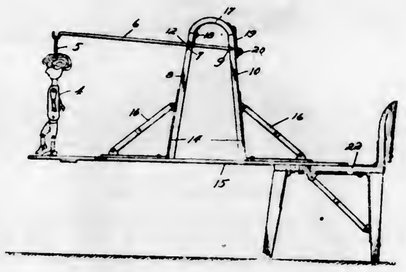
1,391,993. OVERHEAD-TRACK SUSPENSION MEANS AND LOAD-CARRIAGE. WILSON A. BROWNLEE, Quathiaski Cove, British Columbia, Canada. Filed Feb. 10, 1921. Serial No. 443,966. 6 Claims. (Cl. 104—182.)



1. In an overhead wire rope system, the combination with the track rope, track plates secured to the track rope at the required intervals apart, the edges of each of which plates form tracks around each side from and to the line of the track rope, a suspension rod secured to the middle of each track plate from the overhead supports, sheaves grooved to fit the track rope, a carriage suspended from opposite sides of adjacent sheaves, means for retaining the sheaves together with their grooves in alinement with the track rope, means coöperative with the approach of the carriage to the suspension track plate for releasing the track sheaves from their retaining means

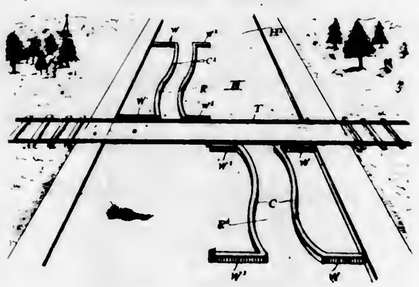
and permitting them to move apart around the opposite sides of the track plate, and means after leaving the track plate for again connecting the sheaves of each side together.

1,391,994. DANCING TOY. ROLAND F. CALHOON, Kansas City, Kans., assignor of one-half to Martha W. Langford, Kansas City, Kans. Filed Feb. 17, 1920. Serial No. 359,264. 3 Claims. (Cl. 46—40.)



1. A dancing toy structure comprising a jointed dancing figure and a collapsible frame work carrying a resilient rod suspending said figure, said frame work comprising a resilient strip presenting a surface in position for engagement with the feet of the dancing figure, and a pair of spaced upright members hingedly connected with said strip and provided with means for bracing and latching said members in upright relation.

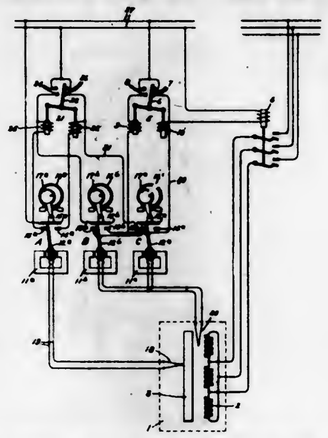
1,391,995. HIGHWAY FOR GRADE-CROSSINGS. KENNETH WILSON CARTER, San Antonio, Tex. Filed Oct. 29, 1920. Serial No. 420,416. 4 Claims. (Cl. 94—1.)



1. A highway for grade crossings, comprising curbings arranged in pairs at the opposite sides of a railway track, with the curbings of each pair spaced apart to provide tortuous roadways, the curbings of one pair being offset with relation to the curbings of the other pair to allow of the quick get-away of a vehicle after it has traversed one roadway.

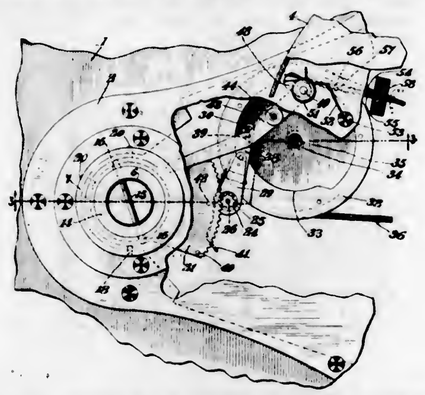
1,391,996. CONTROL FOR ELECTRIC FURNACES AND THE LIKE. EDGAR F. COLLINS, Schenectady, N. Y., assignor to General Electric Company, a Corporation of New York. Filed Nov. 14, 1918. Serial No. 262,458. 18 Claims. (Cl. 204—64.)

1. The combination with an electric furnace or the like, of a plurality of controlling devices for the heating element, each for maintaining the heating element at a different temperature, means responsive to the temperature of the heating element for controlling the said de-



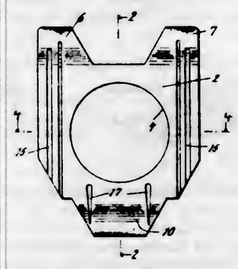
vices and means controlled by the temperature of the furnace charge for shifting the control from one device to the other.

1,391,997. MECHANICAL MOVEMENT. EDWARD T. CONDON, Jr., Morristown, N. J. Filed Nov. 23, 1916. Serial No. 132,935. 26 Claims. (Cl. 192—116.)



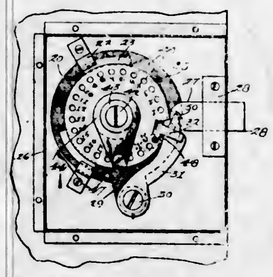
10. In combination, a rotating member, a traveling member adapted to be swung inwardly by the rotating member, a movable element, a movable arm adapted to throw the movable element in one direction, a cam driven from the rotating member having two acting faces separated one from the other and adapted one to move the movable arm into the path of the second and the second to actuate the movable arm to throw the movable element, means including a sleeve connected to rotate with the swinging movement of the traveling member, a gear-sector mounted on the sleeve, a pinion in mesh with the gear-sector, and a frictional connection between the pinion and the movable arm for yieldingly pressing the said arm when released by the first acting face out of the path of the second acting face of the cam during the inward swinging movement of the traveling member, and means actuated by an outward swinging movement of the traveling member to starting position for restoring the movable element to its original position and yieldingly holding the movable arm pressed back out of the path of the second acting face of the cam.

1,391,998. DUST-GUARD FOR CAR-AXLE BOXES. ALEXANDER CURRIE, Yonkers, N. Y. Original application filed Nov. 24, 1917, Serial No. 203,805. Divided and this application filed Nov. 18, 1918. Serial No. 263,030. 5 Claims. (Cl. 64—22.)



1. A dust guard for car axle boxes comprising a single plate having at its upper end a pair of spaced flanges located toward opposite sides of the plate, and at its lower end a single flange located centrally between opposite sides of the plate, said upper and lower flanges being adapted to bear on one wall of the dust guard slot, and the body of the plate being adapted to bear on the opposite wall of the dust guard slot.

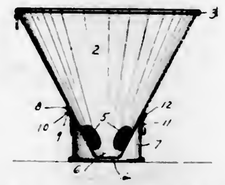
1,391,999. COMBINATION-LOCK. MICHAL CZYZ, Toledo, Ohio. Filed Dec. 9, 1920. Serial No. 429,434. 1 Claim. (Cl. 70—53.)



In a lock of the character described, a casing, an operating spindle extending into said casing, a plate on said spindle spaced from the inner face of the front wall of said casing, said plate having a plurality of arcuate slots near its periphery, a plurality of hooked clamps allowing a rotation of said plate within certain limits and securing the same to the casing, a locking bolt, a guide in the front wall of said casing for guiding said bolt, a forked rear end on said bolt straddling said plate, a pin connecting the prongs of said rear end, an arcuate, nearly radial slot in said plate in which said pin travels, an ear or projection on said plate, an operating finger pivotally secured at one of its ends to said ear, a plurality of recessed tumbler disks on said spindle, a lug on the upper end of said finger normally engaging the recesses in said disks, a finger at the other end of said operating finger opposite to its pivot point, an engaging face at the free end of said last named finger for engaging said forked lock bolt to press the same into locking position upon the proper operation of said spindle and to unlock the lock upon the operation of said plate.

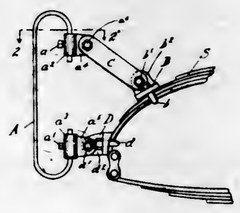
1,392,000. STRAINER. WALTER DIXON, Kimball, Minn. Filed May 10, 1918. Serial No. 233,643. 1 Claim. (Cl. 210—157.)

A strainer comprising a member having a flat closed bottom and side walls flaring upwardly and outwardly from said bottom to form a cone-shaped receptacle, said flaring walls having screened openings above said closed bottom, whereby the settlings will collect on said bottom



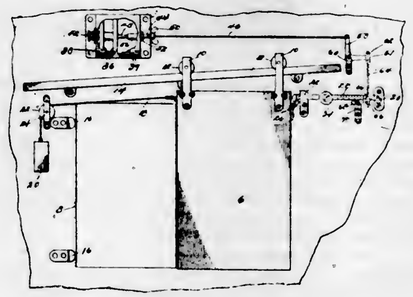
during the straining operation, a ring adapted to receive the lower end of said member and having a seat therefor, and means for securing said ring to the walls of said member.

1,392,001. VERTICAL COLLISION-BUMPER. PEARL V. ELLIOTT, Norwood, Ohio. Filed June 25, 1921. Serial No. 480,456. 5 Claims. (Cl. 293—55.)



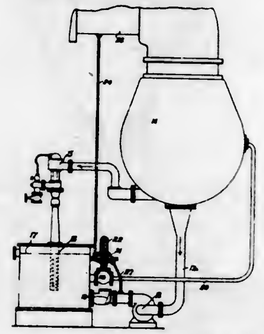
3. A vertical collision bumper having in combination a resilient member to receive the impact of collision, two vertically adjustable means, one above the other, for gripping said resilient member, means for pivotally connecting said upper gripping means to the vehicle and means for pivotally connecting said lower gripping means to the vehicle at a lower point, one of the means for connecting a gripping means to its vehicle connection having a link.

1,392,002. THERMO CONTROL FOR FIRE-DOORS. CHESTER E. ENGLE, Kansas City, Mo. Filed July 21, 1919, Serial No. 312,378. Renewed July 21, 1921. Serial No. 486,616. 6 Claims. (Cl. 189—47.)



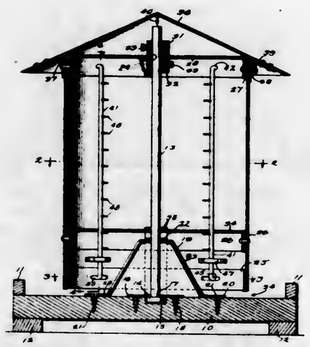
1. A fire door structure comprising, in combination with a door opening, a door movable automatically into closed position over said opening, a latch bar carrying an adjustable counterweight and operative to latch said door in open position, and thermostatic means operating automatically to trip said latch bar and release said door, including thermo-responsive elements mounted in position overhanging said door opening.

1,392,003. AUTOMATIC CONTROL OF STEAM-CONDENSING PLANTS. HARRY FOTHERGILL, Westminster, London, England. Filed Aug. 8, 1919. Serial No. 316,186. 4 Claims. (Cl. 257—24.)



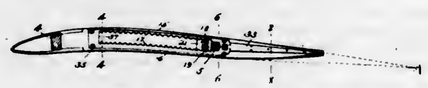
1. A steam condensing plant comprising a main condenser, an auxiliary condensing device into which condensate from the main condenser is discharged, a pipe leading from the auxiliary condensing device to the main condenser and an automatic valve in said pipe controlled by steam or other pressure available only when the engines are running for controlling the flow of water in said pipe.

1,392,004. HOG-FEEDER. FRANK FOUTS, Galveston, Ind. Filed Mar. 22, 1920. Serial No. 367,679. 8 Claims. (Cl. 119—53.)



1. A hog feeding apparatus of the character described comprising a base for receiving the feed thereon, a post extending above the base and connected therewith, a rotatable container carried by the post, said container having its lower end spaced from the base, and combined means for rotating said container and agitating the feed pivotally mounted within the container, movable relatively thereto and having a portion arranged to be operated from the outside of the container.

1,392,005. VARIABLE-AREA WING. HARLAN DAVEY FOWLER, Sacramento, Calif. Filed Sept. 22, 1920. Serial No. 411,936. 19 Claims. (Cl. 244—12.)



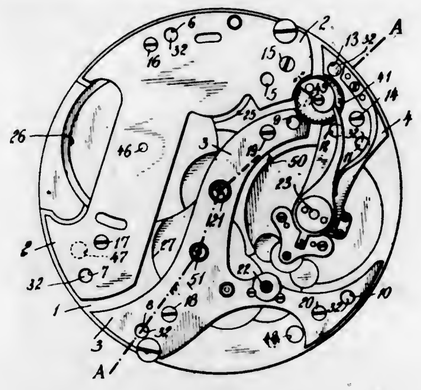
1. In aircraft, a cambered aerofoil having upper and lower surfaces, one of which is flexible, and a trailing extension adapted to be housed within the body of the aerofoil and to be projected through the trailing edge thereof while maintaining the streamline of said cambered surface.

1,392,006. WATCH. JOSEPH A. FREUND, Newtonville, Mass. Filed July 26, 1918. Serial No. 246,794. 2 Claims. (Cl. 58—59.)



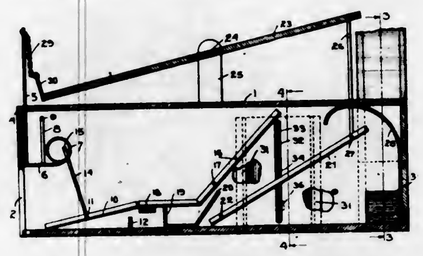
2. In watches, a dial plate and a coöperating bridge member, there being alining steady pin holes extending through the corresponding portions of the bridge member and dial plate and steady pins supported in one of said sets of steady pin holes and having projecting ends to engage the other corresponding steady pin holes and aline the same, and jewel bearings mounted in said bridge member and dial plate in corresponding relation to said steady pin holes.

1,392,007. PROCESS OF MAKING WATCH-PLATES. JOSEPH A. FREUND, Newtonville, Mass. Filed Aug. 8, 1918. Serial No. 248,821. Renewed Jan. 13, 1921. Serial No. 437,127. 22 Claims. (Cl. 29—177.)



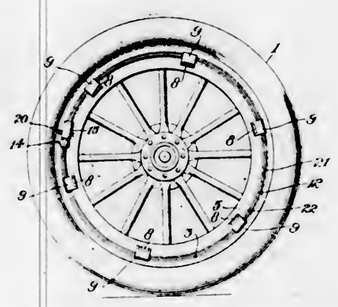
1. The process of forming and jeweling watch plates which comprises forming a corresponding series of steady pin locating holes in the dial plate and in the thin substantially uniform thickness bridge members by boring such steady pin holes through the same drill jig plate which is secured in alinement with the rear side of the dial plate against which the bridge members are secured in the watch movement, recessing the dial plate and bridge members and jeweling them on a series of jeweling quills, each of which is formed with quill alining pins coöperating with the steady pin holes in one of said bridge members to center with respect to said jeweling quill one of the bearings in said bridge member and counterboring and setting the jewel in said bearing, and mounting the dial plate on said jeweling quill and clamping the rear face of said dial plate against the face of said quill and inserting said quill alining pins in the corresponding steady pin holes in said dial plate to center with respect to said jeweling quill the corresponding bearing in said dial plate and counterboring and setting the jewel in said bearing to insure the accuracy and uprighting of the bearings in the said watch plates when they are assembled and held in alinement by steady pins engaging the corresponding steady pin locating holes in said bridge members and dial plate.

1,392,008. RAT OR ANIMAL TRAP. JOSEPH FRITSCH, Sedro Woolley, Wash. Filed Aup. 25, 1920. Serial No. 405,831. 1 Claim. (Cl. 43—76.)



In a device of the class described, a casing having an entrance; a door controlling the entrance; a trigger coöperating with the door to hold the door open; a first platform pivotally supported on the casing, the platform and the trigger having interengaged parts coacting to retract the trigger from the door; a third platform pivotally supported in the casing; means connected with the third platform and with the door for opening the door; a second platform pivotally supported in the casing between the first and third platforms, the second platform comprising an upwardly extended part forming a barrier preventing retreat from the third platform; and a detent on the casing, the detent being operated by the third platform, when the third platform is depressed, to engage the second platform and to prevent a depression of said upwardly extended part of the second platform.

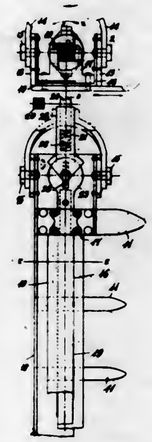
1,392,009. DEMOUNTABLE RIM. THOMAS G. GERDINE, West Falls Church, Va. Filed Aug. 2, 1920. Serial No. 400,731. 5 Claims. (Cl. 301—23.)



1. The combination with a wheel rim and felly, of an extensible and contractible annulus, a plurality of latches pivotally supported on said wheel, and connections between said latches and annulus whereby the former may be forced into locking position with relation to the rim.

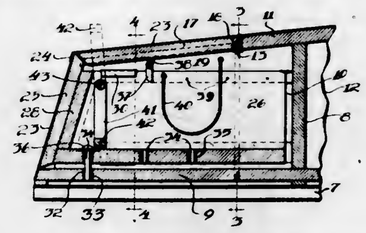
1,392,010. CUTTING MECHANISM FOR MOWING-MACHINES, HARVESTERS, REAPING-MACHINES, AND BINDERS. ALEXANDER GLINCHIKOFF, New York, N. Y. Filed Feb. 16, 1920. Serial No. 358,863. 5 Claims. (Cl. 56—294.)

1. A mowing machine embodying a pivoted finger bar, a cutter positioned above the finger bar and mounted for rotation, said cutter embodying a plurality of sharpened blades, a shaft for rotating the cutter, a ball and socket universal joint connecting the drive shaft to the cutter, said shaft being locked for rotation with one element of the universal joint and longitudinally adjustable relative thereto, and a spring coöperating with the shaft and said



element of the universal joint for maintaining the ball and socket portions of said joint in coöperative relation.

1,392,011. EXTENSIBLE AUTOMOBILE BOX OR BODY. PETER L. HEDBERG, Chicago, Ill. Filed Mar. 28, 1921. Serial No. 456,154. 7 Claims. (Cl. 296—26.)

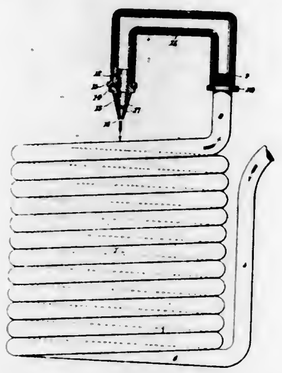


1. In a device of the class described, the combination with a box suitably supported on the frame of an automobile having its rear end and a part of its top open, of a door hinged to the top of the box and adapted to close the opening in said top, another box slidably mounted within the first named box and having at its rear end an end piece adapted to close the open end of the first named box when the inner box is in its normal position.

1,392,012. LIQUID-FUEL BURNER. CHARLES HOSEK, Floresville, Tex. Filed Jan. 15, 1921. Serial No. 437,506. 1 Claim. (Cl. 158—79.)

A liquid fuel burner of the class described including a fuel supply pipe extending downwardly and then laterally where it is formed into a series of closely related upwardly progressing helical coils, a supply pipe terminating at the uppermost coil adjacent one side of the burner and then extending upwardly and having an annular flange adjacent its upper end, the portion of the pipe above the flange being threaded, an inverted substantially U-shaped pipe having one end threaded upon said threaded end of the supply pipe, the said pipe being arranged with its central portion extending radially inwardly toward the center of the coils above the latter and with its free end directed downwardly toward the coils and terminating slightly above the latter and provided with an outwardly extending annular flange and a burner tip secured in the

free end of said inverted U-shaped pipe above the uppermost coil and having ports to direct the flames laterally



and downwardly for effectively heating said coils and provided with a flange intermediate its ends for impinging against the said flange of the U-shaped pipe.

1,392,013. CORE COMPOUND. WILLIAM HOSKINS, Chicago, Ill. Filed June 27, 1921. Serial No. 480,862. 5 Claims. (Cl. 22—188.)

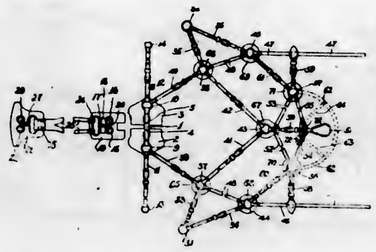
5. The herein described core compound comprising a relatively permanent emulsion of oil, concentrated sulfite liquor and an emulsifying agent.

1,392,014. CHART FOR USE IN TEACHING THE ART OF READING. GEORGE EDWARD JONES, Bundarra, New South Wales, Australia. Filed Apr. 14, 1920. Serial No. 373,863. 3 Claims. (Cl. 283—46.)



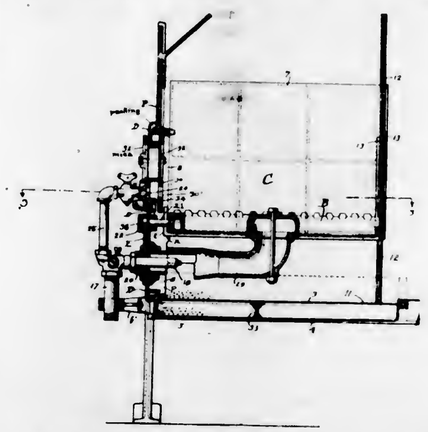
1. An article of manufacture as herein described, consisting of a chart which comprises a series of diagrams capable of individual representation manually by the palms and fingers of a person, and associated respectively with each of said diagrams, words or parts of words, each of said diagrams representing a sign visually indicating the vocalization or sound value of a letter or combination of letters contained in the word or part of a word with which it is associated.

1,392,015. HARNESS. JOHAN CATO ELI KÖHLER, Woudzicht, near Vrede, Orange Free State, South Africa. Filed Nov. 13, 1919. Serial No. 337,698. 8 Claims. (Cl. 54—1.)



7. A harness for draft animals comprising a neck portion, a chest and underbody strap secured thereto, and adapted to extend between the forelegs to beneath the body, traces, means adapted to receive said traces, means connecting said receiving means with the rear portion of said chest and underbody strap and with the upper part of said neck portion, means adapted to extend from said receiving means over the extreme rear of the animal's back, and means connecting said latter means with the traces to the rear of the said receiving means, said parts being so proportioned that the draft is at all times distributed on all said parts in contact with the animal.

1,392,016. HEATER FOR GARAGES AND OTHER USES. OTTO J. KUENHOLD, Cleveland, Ohio. Filed Dec. 13, 1915. Serial No. 66,652. Renewed May 6, 1918. Serial No. 232,980. 18 Claims. (Cl. 126—85.)

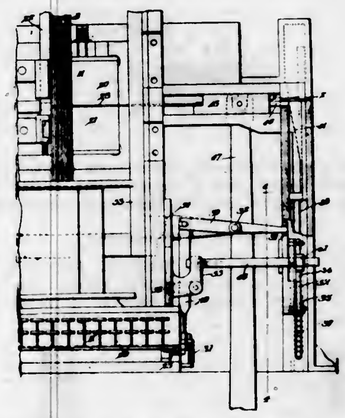


1. A heater having a combustion chamber which is sealed and locked to prevent ingress thereto and having an air intake, a flame-passage resisting screen and entrance guard for said air intake, a burner for said chamber, an ignition device for said burner sealed and locked within said chamber, and means to operate said ignition device externally of said chamber.

1,392,017. TYPOGRAPHIC MACHINE. FREDERICK W. LETSCH, Baltimore, Md. Filed July 18, 1916. Serial No. 109,955. Renewed Dec. 28, 1920. Serial No. 433,740. 10 Claims. (Cl. 199—13.)

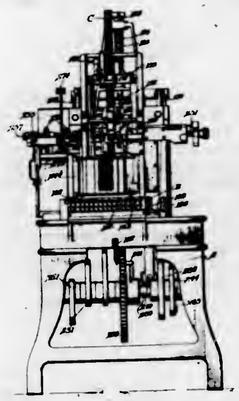
5. In a typographic machine, the combination with a mold having an adjustable body piece, of a keyboard, and

means for adjusting the body piece from the keyboard comprising a universal bar, a stepped block, a ratchet



and pawl device for adjusting said block, and means for causing the block to act as a gage for the body piece.

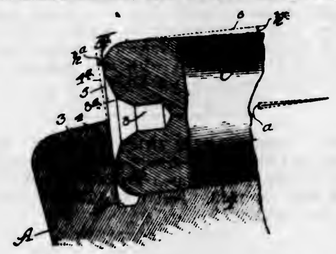
1,392,018. TYPOGRAPHIC MACHINE. FREDERICK W. LETSCH, Baltimore, Md., assignor to J. Norris McFarland, Baltimore, Md. Filed May 22, 1916, Serial No. 99,201. Renewed Dec. 28, 1920. Serial No. 433,741. 27 Claims. (Cl. 199—9.)



4. In a typographic machine, the combination with a rotatable turret, a series of movable pins, and means on the turret for sustaining the movable pins of a composing mechanism comprising a key board in front of the turret and pushers within the turret operated from the key board for moving the pins radially outward, said turret being rotatable to carry the set pins from the composing position to a matrix assembling position, and matrix bars at the latter position adapted to coöperate with projected pins to bring selected characters into line.

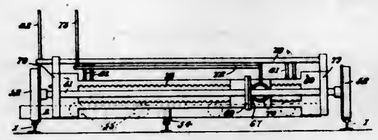
1,392,019. ROLLER-BEARING. GEORGE L. MILLER, Canton, Ohio, assignor to The Gilliam Manufacturing Company, Canton, Ohio, a Corporation of Ohio. Filed Aug. 4, 1920. Serial No. 401,216. 8 Claims. (Cl. 64—39.)

8. A roller-bearing comprising an annular race adapted to receive conical rollers, self-righting conical rollers out of contact with each other in said race, said race being provided with an end thrust surface, and each of said rollers having a thrust surface in a plane normal to the axis of the roller and having single point contact with and forming a very slight clearance angle with said first-named surface, said surfaces being adapted to



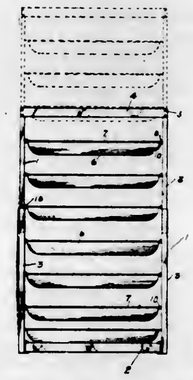
exert corrective reaction on the roller upon a slight deviation of the roller from its true line contact position in the race, whereby the roller is rendered self-righting, and a cage spacing said rollers, said cage having pockets receiving the rollers freely therein and permitting the self righting action of the rollers to occur.

1,392,020. RETORT-CLEANING MACHINE. JOSEPH NIEZNALSKI and JAN BELCZYNSKI, Detroit, Mich. Filed Oct. 7, 1919. Serial No. 329,170. 4 Claims. (Cl. 105—117.)



1. A machine of the character described comprising a wheel mounted motor truck, a platform anti-frictionally supported upon said truck, a motor supported on the platform, and operating mechanism connecting the motor with the truck wheels and with the platform whereby the truck is adapted for travel simultaneously with a relative shifting of the platform upon the truck.

1,392,021. GRAIN-SPROUTER. LUCIAN R. OAKES, Tipton, Ind. Filed Aug. 31, 1920. Serial No. 407,216. 5 Claims. (Cl. 47—30.)

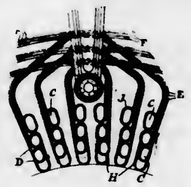


1. In a grain sprouting device, a base structure, standards attached to said base structure, each standard

being formed of telescoping sections, grain sprouting pans and means on said standards for supporting said pans, said supporting means limiting the telescoping action of said standard forming sections.

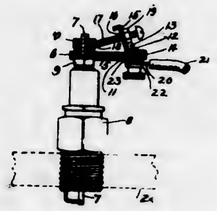
2. In a grain sprouting device, a base, standards arranged on opposite sides of the base, means for increasing the height of said standards, cross bars for connecting the upper ends of the standards, brackets on the inner faces of said standards arranged in series, and grain receiving pans interlocked with said brackets and in spaced relation one above the other.

1,392,022. DYNAMO-ELECTRIC MACHINE. CHARLES ALGERNON PARSONS and JESSEL ROSEN, Newcastle-upon-Tyne, England; said Rosen assignor to said Parsons. Filed Feb. 10, 1919. Serial No. 276,121. 4 Claims. (Cl. 171—206.)



1. A dynamo electric machine having conductors made separately from the end connectors in which, a plurality of joints is provided between each conductor and the corresponding end connector.

1,392,023. SPARK-PLUG INTENSIFIER. JAMES M. PAUL, Los Angeles, Calif., assignor of one-half to John J. Keller, Los Angeles, Calif. Filed Jan. 12, 1920. Serial No. 350,769. 1 Claim. (Cl. 175—183.)



A device of the class described, comprising a base of insulating material having an opening formed therein, adapted to engage the upper threaded end of a spark plug electrode, a circular nut in screw threaded engagement with the threaded end of the spark plug electrode for immovably securing the base thereto; a contact element adapted to have a conductor connected thereto, a screw mounted thereon, said screw being adjustable to or from the periphery of said circular nut forming a spark gap therebetween, means to lock said screw in an adjusted position, whereby on an accidental loosening of the circular nut no variation of the spark gap will occur.

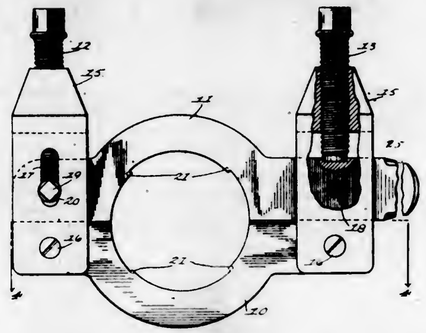
1,392,024. DROP-DOWN GUN AND RIFLE. HARRY HERBERT PAYNE, Birmingham, England, assignor of two-thirds to John White, Birmingham, England. Filed Aug. 21, 1919. Serial No. 319,025. 4 Claims. (Cl. 42—41.)

1. In a gun adapted to be broken at the breech for loading, a breech piece, a hammer having a bolt mounted for axial movement in the breech piece, a spring on the bolt to cause the hammer to strike, a movable member arranged to compress said spring when said member is moved in one direction, a lever mounted in the breech piece and arranged for movement by the barrel when



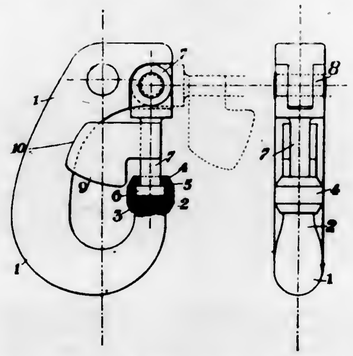
the gun is closed, to cause said movable member to compress said spring, and a second spring to move said movable member to move the hammer to cocked position.

1,392,025. ADJUSTABLE WRENCH FOR MILLING-MACHINES. JACOB PAYUCHECK, Chester, Pa. Filed Aug. 17, 1920. Serial No. 404,073. 4 Claims. (Cl. 29—85.)



1. A tool of the character described comprising two clamp-jaws having their inner edges formed on the arc of a circle, shoulders on said inner edges, means for adjustably clamping said jaws over a rotary cutter head, and means coöperating with said shoulders for binding said cuttter head and tool upon the reverse motion or the cone shaft for said cutter.

1,392,026. BULL-HOOK. ROBERT MILTON STEVENSON, Victoria, British Columbia, Canada. Filed May 17, 1921. Serial No. 470,271. 1 Claim. (Cl. 24—241.)



A bull hook with a screw formed upon its point, in combination with a pivotal link having a collar on its end

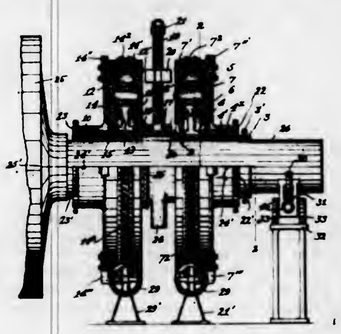
remote from the pivot, a nut to engage the said screw on the point of the hook, an internal seating ring within said nut to receive the said collar on the said link, a keeper secured to the link and extending across the inclosure formed by the hook, all substantially as explained and described.

1,392,027. METHOD OF MAKING PISTON-RINGS. HENRY STOFFERS, Newark, N. J. Filed June 5, 1920. Serial No. 386,738. 1 Claim. (Cl. 29—156.6.)



The herein described method of making a piston ring consisting in providing an annular interior groove in the ring having angularly disposed sides, hammering the faces of said groove at an angle to a radial plane of the ring to cause the increase in the density of the metal resulting from the hammering operation to be transmitted at an angle.

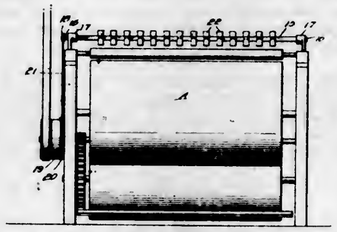
1,392,028. MACHINE FOR DETERMINING THE STATIC AND DYNAMIC UNBALANCE OF ROTATING BODIES. MAYSON WHITE TORBET, Jackson, Mich., assignor to Vibration Specialty Company, Philadelphia, Pa., a Corporation of Delaware. Filed May 29, 1919. Serial No. 300,707. 15 Claims. (Cl. 73—51.)



1. In a balancing machine of the class set forth, a bodily-rotatable mechanism embodying a balancing weight and adjusting devices therefor capable of moving the weight in angular position in either direction and in radial direction either in or out with respect to the axis of rotation of said mechanism while the rotating body to which the mehanism is attached is in motion, said radical adjusting device embodying a rotatable screw on which the weight moves and means for axially rotating this screw during the rotation of the mechanism.

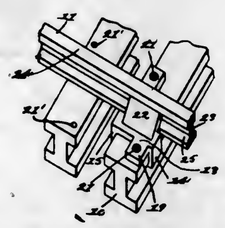
1,392,029. FAN FOR TEXTILE-MILLS. JOSEPH D. TURNER, Huntsville, Ala., assignor, by direct and mesne assignments, of one-fourth to M. A. Shields and one-fourth to Milton C. Giles, Huntsville, Ala. Filed Dec. 1, 1917. Serial No. 204,895. 4 Claims. (Cl. 230—1.)

1. The combination of a textile machine, and an exposed fan supported for rotation thereon; said fan being characterized by wings spaced apart throughout the



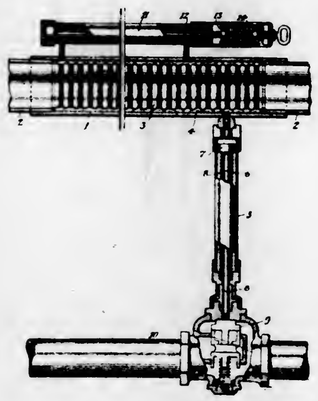
length of the machine to displace lint and to permit an operative to reach between the wings.

1,392,030. RAIL-CLAMP. FRANK WASCHEK, Hamtramck, Mich. Filed May 4, 1921. Serial No. 466,776. 1 Claim. (Cl. 238—352.)



The combination of a metal railroad tie of I-shaped cross section with clamps adapted to be secured to the tie, one upon each side of a rail, each of said clamps comprising a body member, lateral rectangularly bent flanges on said member adapted to grip under the top beam of the I, a projection perforated for the passage of fastening bolts and a wedge shape element adapted to engage with its upper edge the web of a rail underneath the head thereof and resting with its inclined lower face against the upper face of the rail foot flange the wedge shape element being extended in length to engage the webs of two adjoining rails.

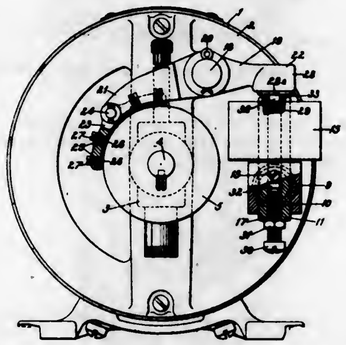
1,392,031. THERMOSTATIC DEVICE. HERBERT J. C. WELLS, New York, N. Y. Filed Sept. 20, 1919. Serial No. 325,091. 3 Claims. (Cl. 236—42.)



2. The combination in a temperature controller of two concentric tubes, the inner tube being corrugated to in-

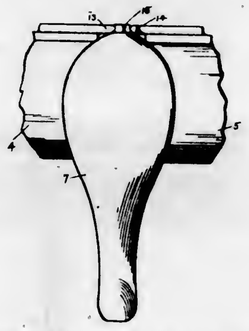
crease the exposed surface, said tubes forming a closed annular space which is filled with an expansible medium, of means operated by the expansion and contraction of said medium for actuating a regulating device, and means for passing through the inner corrugated tube the medium of which the temperature is to be controlled.

1,392,032. ELECTROMAGNETIC BRAKING DEVICE. CLIFFORD A. M. WEBER, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 3, 1916. Serial No. 129,299. 10 Claims. (Cl. 188—171.)



1. In a dynamo-electric machine, the combination with an armature shaft, and a bearing bracket for rotatably supporting said shaft and provided with projections integral therewith, of an electric magnetic braking device for said shaft comprising a braking member, a core member carried by one of said projections and an armature pivotally mounted on another of said projections and adapted to operate said braking member.

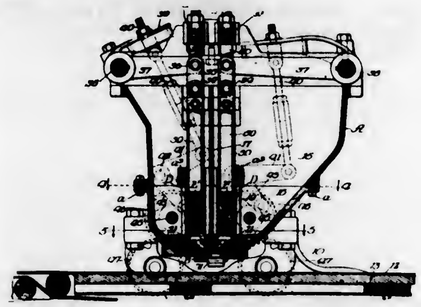
1,392,033. STOVE-LEG CONNECTION. ALBERT T. WEISS, Rochester, N. Y., assignor to Phillips & Clark Stove Company, Inc., Geneva, N. Y., a Corporation of New York. Filed Nov. 8, 1920. Serial No. 422,572. 15 Claims. (Cl. 126—304.)



1. A connection between the legs and base of ranges or stoves comprising a support at the back of said leg, said support being adapted to support the head of a bolt with the shank thereof extending rearwardly therefrom and hold it from turning therein, a flange on said base, the shank of said bolt being adapted to pass through said flange and clamp said flange against the back of said leg.

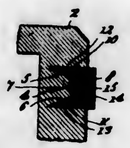
1,392,034. DEPOSITING-MACHINE. FREDERICK WESTERMAN, Chicago, Ill. Filed July 1, 1918. Serial No. 242,713. 19 Claims. (Cl. 107—28.)

1. A depositing machine comprising the combination with a receptacle for material to be deposited having a discharge port at its bottom, of a hollow valve arranged within said receptacle to control the flow of material through said discharge port, a plunger within said hollow valve for forcing the material from the same receptacle the discharge port whereof said hollow valve controls, and means for operating said hollow valve and plunger in timed relation.



19. A depositing machine comprising the combination of a receptacle for material to be deposited, of a discharge nozzle arranged beneath said receptacle and having channels for the passage therethrough of material, a spreader bar below said discharge nozzle, a tubular conduit connected to said spreader bar, a sprocket wheel wherein said tubular conduit is mounted, said conduit being open at its upper end and provided with a perforation adjacent its lower end for the passage of material into the channels of said discharge nozzle, and means for imparting rotation to said sprocket wheel.

1,392,035. PISTON-PACKING. NOLAN S. WILLIAMS, El Paso, Tex. Filed Oct. 25, 1920. Serial No. 419,323. 3 Claims. (Cl. 74—109.)



1. In combination with a piston having a groove therein, a bead in the groove provided with a trough, and a packing ring fitted in the groove and being expansible therein, said ring having a projection adapted to enter the trough, and ducts in communication with the trough and the outside of the ring respectively, substantially as described.

1,392,036. [WITHDRAWN.]

1,392,037. TALKING-MACHINE HORN. JOSEPH WOLFF, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed Mar. 19, 1919. Serial No. 283,537. 5 Claims. (Cl. 181—27.)



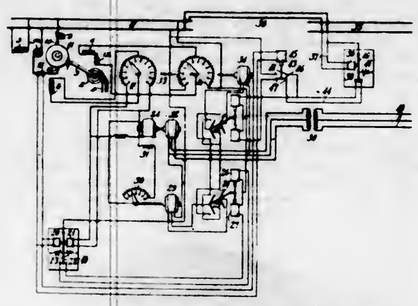
1. A talking machine horn or resonator, comprising walls of more than three layers of fibrous material and a coating of non-fibrous material.

1,392,038. OUTLET-BOX. WILLIAM HENRY WOOD, Darien, Conn. Filed Jan. 17, 1920. Serial No. 352,199. 3 Claims. (Cl. 247—21.)



3. An outlet box comprising a flat plate having screw receiving openings for attaching the plate against a plastered wall, said plate having a central opening defining an opening to be cut in the wall and the marginal edge of the opening in the plate forming a guide for a cutting tool, and a box body of the configuration of the opening in the plate adapted to fit therein and extend into the opening in the wall when cut, said box body having outstanding portions at its forward edge adapted to overlap the front face of the frame plate and provided with means for securing the projecting portions to the plate.

1,392,039. DYNAMO-ELECTRIC MACHINE. JOHN L. MCK. YARDLEY, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 14, 1913. Serial No. 760,925. 45 Claims. (Cl. 171—123.)



1. The combination with a plurality of dynamo-electric machines mechanically associated and electrically connected in series circuit relation, one of which is of the commutator type, of automatic means mechanically associated with both machines for regulating voltage and securing good commutating conditions on said commutating machine.
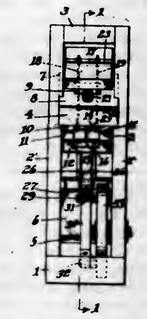
43. The method of improving the commutation of a synchronous booster rotary converter of the class described, which consists in maintaining a commutating field having a component which varies both in accordance with the load current of said converter and in accordance with the booster voltage.

1,392,040. LIQUID COATING COMPOSITION. HARRY A. BABIS, Philadelphia, Pa. Filed June 1, 1920. Serial No. 385,609. 3 Claims. (Cl. 134—79.)

2. A liquid composition adapted as a waterproof coating and comprising pine tar, rosin, Burgundy pitch, ether, japan, plaster of Paris, celluloid and acetone.

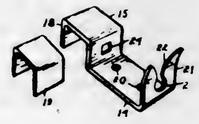
1,392,041. SAFETY-HOOK FOR GLAZING-MACHINES. JOSEPH G. BAUMANN, Philadelphia, Pa., assignor to Alfred C. Layman, Wilmington, Del. Filed May 8, 1918. Serial No. 233,365. 8 Claims. (Cl. 149—18.)

1. In a glazing machine comprising a fixed track, a resilient support above the track, a rocker head below the track, rods depending from the support to hold the rocker head and a pin in the rocker head with which the rods engage, the novelty which comprises rods and pin so



formed as to prevent relative rotation between them and to provide cylindrical metallic bearings in the rocker head for the pin.

1,392,042. BOBBIN-SHUTTLE. JOHN B. BENTLEY, Jamestown, N. Y. Filed Nov. 8, 1920. Serial No. 422,507. 14 Claims. (Cl. 139—27.)



1. In a shuttle, a holding clip having a key hole shaped open-ended slot in its upturned end, in combination with a resilient split spindle having a shoulder thereon to spring said spindle into holding engagement against said upturned end and into said open-ended slot, and means for holding the butt of said spindle.

1,392,043. PROCESS OF RECOVERING AN ELEMENT CAPABLE OF FORMING A HALOID FROM ORES, MINERALS, &c., CONTAINING THE SAME. HAROLD S. BOOTH and GEORGE G. MARSHALL, Cleveland, Ohio. Filed Nov. 26, 1917. Serial No. 204,002. 12 Claims. (Cl. 23—13.)

1. The process which consists in mixing material containing aluminum with a chlorid which will react with the first mentioned material, having silica present in the mixture, heating the mixture to a temperature at which the reaction proceeds and chlorid of aluminum is formed, and sufficiently high to cause volatization of the chlorid of aluminum, and collecting the volatilized chlorid.

1,392,044. PROCESS OF RECOVERING AN ELEMENT CAPABLE OF FORMING A HALOID FROM ORES, MINERALS, &c., CONTAINING THE SAME. HAROLD S. BOOTH and GEORGE G. MARSHALL, Cleveland, Ohio. Filed Nov. 26, 1917. Serial No. 204,003. 8 Claims. (Cl. 23—13.)

5. The process which consists in mixing a silicate containing aluminum with a haloid capable of reacting with said silicate, having the mixture in anhydrous condition, heating the mixture to a temperature at which reaction proceeds and a haloid of aluminum is formed but short of the temperature at which the haloid of aluminum volatilizes, and leaching the haloid of aluminum formed from the mass produced by the process.

1,392,045. PROCESS OF RECOVERING BERYLLIUM FROM ORES, MINERALS, &c., CONTAINING THE SAME. HAROLD S. BOOTH and GEORGE G. MARSHALL, Cleveland, Ohio. Filed Nov. 26, 1917. Serial No. 204,004. 19 Claims. (Cl. 23—13.)

1. The process for recovering beryllium from its ores which consists in preparing a furnace charge of the material to be treated in crushed form, adding a halogen salt of an alkaline earth metal or alkali metal, heating the same to a temperature at which reaction will proceed, and a haloid of beryllium be formed, and in recovering the said haloid of beryllium.

1,392,046. PROCESS OF RECOVERING BERYLLIUM FROM ORES, MINERALS, AND OTHER MATERIALS. HAROLD S. BOOTH, Ithaca, N. Y., and GEORGE G. MARSHALL, Cleveland, Ohio. Filed Oct. 16, 1918. Serial No. 258,446. 13 Claims. (Cl. 23—13.)

1. The process of recovering beryllium as a salt of beryllium from an ore, mineral or material containing the same, which consists in heating the beryllium containing material to a sufficient temperature and causing the same to react with a halogen, thereby to form a haloid of beryllium, and recovering the beryllium haloid formed.

1,392,047. PROCESS FOR THE PRODUCTION OF HIGH PERCENTAGE SULFITE CELLULOSE. EMILE BRONNERT, Mulhouse, Alsace Lorraine, France. Filed Sept. 13, 1920. Serial No. 409,976. 1 Claim. (Cl. 92—11.)

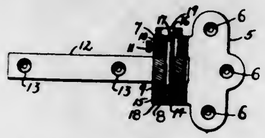
A process for the production of high percentage sulfite cellulose, characterized by the fact that under low pressure an opening up of the material by boiling with diluted, say 1% sulfuric acid, is allowed to precede the usual boiling of the already prepared wood material with calcium bisulfite or magnesium calcium sulfite lye under pressure.

1,392,048. SIGNALING DEVICE. JOSEPH BUTERA and GAETANO SORCE, San Jose, Calif. Filed May 31, 1921. Serial No. 473,621. 5 Claims. (Cl. 116—40.)



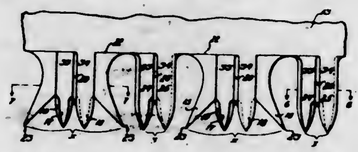
1. A signal comprising a supporting arm, a pantograph bracket mounted thereon, a signal device mounted on said bracket, means for expanding said bracket, and an additional connection between said device and supporting arm whereby said device is caused to rotate about its connection to said bracket upon the expansion thereof.

1,392,049. HINGE. ISHAM S. DICKEN, St. Louis, Mo., assignor of one-half to William T. Miles, St. Louis, Mo. Filed Sept. 29, 1920. Serial No. 413,580. 1 Claim. (Cl. 16—112.)



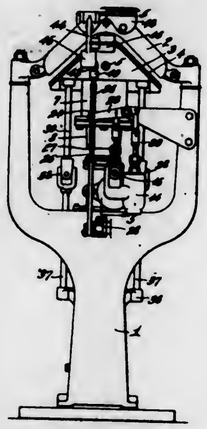
In a hinge, a stationary leaf having knuckles formed integral therewith and a slot formed in one of said knuckles, a counter sunk portion formed in the other of said knuckles, a movable leaf having a knuckle with a hole therethrough, a pintle, said pintle passing through the slot in said stationary leaf, the hole in the knuckle of said movable leaf and into the counter sunk portion of the knuckle of said stationary leaf, a set-screw operatively secured to said slotted knuckle so that a rotation of said set-screw will cause a lateral movement of said pintle in said slotted knuckle and a rotation of the end of said pintle in the counter sunk portion of one of said other knuckles.

1,392,050. SAW. LOUIS DRAGON, Philadelphia, Pa., assignor of one-third to Sam Reh and one-third to Joseph Reible, Philadelphia, Pa. Filed Aug. 2, 1920. Serial No. 400,776. 3 Claims. (Cl. 143—133.)



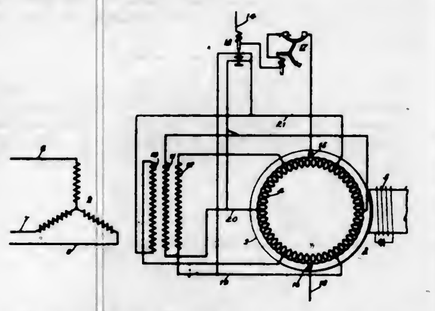
1. A saw including a blade having opposite faces inclined in opposite directions to a plane extending centrally through the thickness thereof, said blade having knives, in which adjacent knives have opposite surfaces coincident respectively with the opposite surfaces of said blade, said blade having chisel teeth adjacent said knives, said chisel teeth having opposite side surfaces extending substantially parallel to each other; substantially as described.

1,392,051. SAFETY DEVICE FOR PRESSING-MACHINES. ALBERT J. DREHER, Norwood, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a Corporation of Ohio. Filed Aug. 30, 1919. Serial No. 320,921. 7 Claims. (Cl. 68—9.)



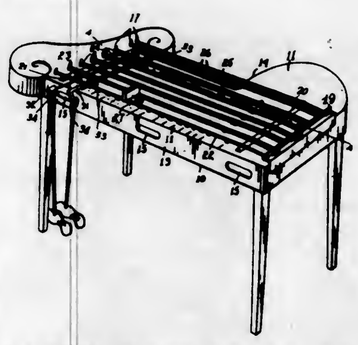
1. A pressing machine, comprising a pressing member and a work supporting member having relative movement from and toward each other for the pressing operation, one of said members being also laterally movable into and out of registering relation with the other member, operator operated means for producing relative movement of the pressing members toward and from each other, power means for producing heavy pressure on the work, and means for preventing operation of said power means except when the members are in registering relation with each other.

1,392,052. FLASH-OVER-SUPPRESSING MEANS FOR ROTARY-CONVERTER SYSTEMS. FREDERIC C. HANKER, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1918. Serial No. 240,284. Renewed Nov. 23, 1920. Serial No. 426,103. 10 Claims. (Cl. 171—228.)



1. The combination with a rotary-converter, of means for supplying n-phase alternating currents thereto, n being an even number greater than 2, a load-circuit connected thereto, and means for interconnecting points in said supply means having currents with a relative phase-displacement of $\frac{720°}{n}$ upon the occurrence of abnormal current flow in said load circuit.

1,392,053. STRINGED MUSICAL INSTRUMENT. EUGENE B. HARRINGTON, Jamestown, N. Y., assignor of one-half to C. Fred Danielson, Jamestown, N. Y. Filed Nov. 15, 1920. Serial No. 424,162. 7 Claims. (Cl. 84—285.)

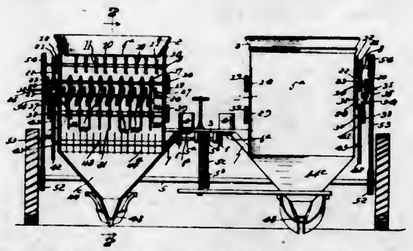


1. In a musical instrument, steel guitar strings, accompaniment strings located alongside said strings and tuned to the same key, and a playing steel of sufficient length to cover both sets of strings while playing the same.

2. In a musical instrument, a set of lead or melody strings and sets of accompaniment strings placed side by side, a plurality of rotatable fret bars arranged to bear against said sets of accompaniment strings to change the key of the same, a bar to receive arm pressure, and link and bell crank connection between said bar and said rotatable fret bars to actuate the same.

4. In combination with a stringed instrument, a plurality of movable fret bars, a movable member, and means connecting said fret bars to the member whereby upon a certain movement of the member a predetermined one of said bars will be moved to operative position and upon a second movement of said member a second one of said bars will be moved to operative position.

1,392,054. DISINTEGRATOR. JOSEPH A. HERRON, Concord, Tenn. Filed Mar. 9, 1921. Serial No. 450,872. 4 Claims. (Cl. 146—11.)



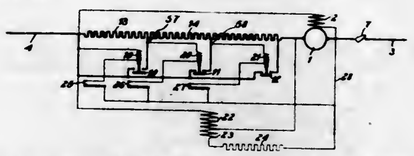
1. In a machine as set forth, a casing having a chamber, a hopper therefor, a plurality of combined feeders and disintegrators arranged in a set adjacent the hopper, upper and lower sets of combined disintegrating and cutter bars mounted in the chamber, opposing revoluble cutting elements mounted in the chamber, said cutting elements having their sharp curved edges overlapping each other at points adjacent certain of the cutting and disintegrating bars, and a plurality of scrapers revolubly mounted below the cutting elements and in positions to scrape the cutting elements, said casing having an outlet chute.

1,392,055. FILING-CABINET. JOHN HERZOG, Saginaw, Mich., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed June 17, 1919. Serial No. 304,761. 7 Claims. (Cl. 211—16.)



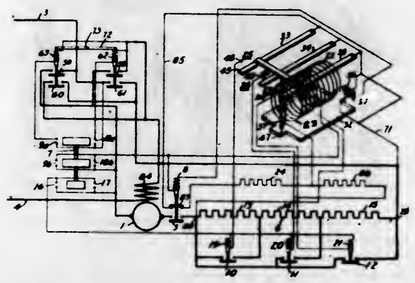
1. A device of the character described, comprising a frame, a clip associated with the frame, a rod engaging the clip, the association between the frame, clip and rod being such that upon a movement of the clip relatively to one of said members, the rod will be released from engagement therewith.

1,392,056. CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 27, 1918. Serial No. 236,937. 33 Claims. (Cl. 172—179.)



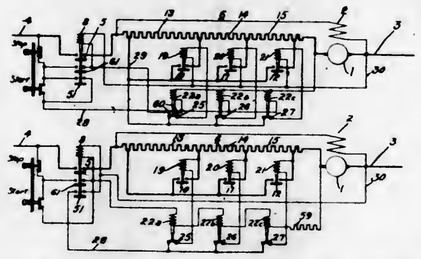
1. In a control system, the combination with a resistor, and means for successively shunting a plurality of portions of said resistor, of means comprising a single coil dependent upon the voltage across said resistor for controlling said shunting means.

1,392,057. CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 10, 1918. Serial No. 249,344. 17 Claims. (Cl. 172—179.)



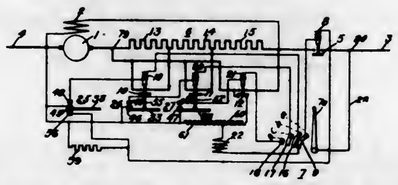
14. The combination with an electric motor having an armature, a resistor in circuit therewith, and a switch for short-circuiting said resistor, said switch having an actuating coil, of means for starting said motor and means for preventing the short-circuiting of said resistor after the reversal of said motor until after the reversal of the magnetism of said coil.

1,392,058. MOTOR-CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 8, 1919. Serial No. 270,146. 7 Claims. (Cl. 172—288.)



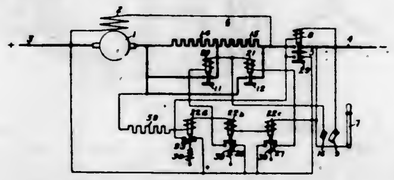
1. The combination with an electric motor having a resistor associated therewith, a switch for controlling said resistor and a normally closed relay for controlling said resistor-controlling switch, of a coil energized in accordance with the voltage across said resistor for controlling said relay.

1,392,059. CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 8, 1919. Serial No. 270,148. 4 Claims. (Cl. 172—179.)



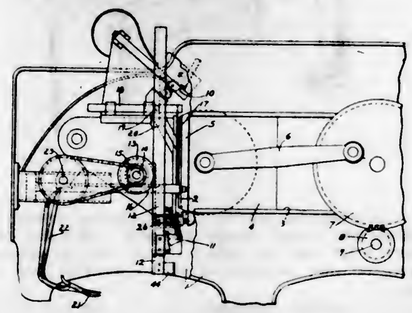
2. The combination with an electric motor having a resistor, a switch for closing the circuit of said motor and having an actuating coil, a switch for controlling said resistor and having a controlling coil in parallel circuit with said resistor and a switch mechanically connected to said controlling switch, of a pair of auxiliary resistors, means for closing the circuit of said actuating coil through said mechanically connected switch and through one of said auxiliary resistors, and means for connecting said controlling coil in circuit with said other auxiliary resistor upon the short-circuiting of said first-named resistor.

1,392,060. CONTROL SYSTEM. HENRY D. JAMES, Edgewood Park, and RAY E. DE CAMP, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed May 12, 1919. Serial No. 296,597. 10 Claims. (Cl. 172—179.)



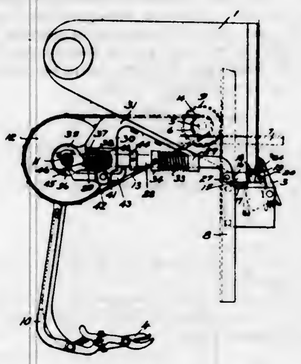
1. The combination with an electric motor having an armature, a resistor in series therewith, a switch for short-circuiting said resistor, a relay for said switch that is biased to closed position and having an opening coil, and a source of energy for said motor, of means whereby the voltage of said source is applied to said coil when said motor is disconnected from said source and whereby said coil is energized in accordance with the drop in potential across said resistor when said motor is connected to said source.

1,392,061. SHEET-SUPPORTING DEVICE. EMERSON P. JENNINGS, Lehighton, Pa. Original application filed Mar. 30, 1916, Serial No. 87,725. Divided and this application filed Nov. 24, 1919. Serial No. 340,153. 24 Claims. (Cl. 101—413.)



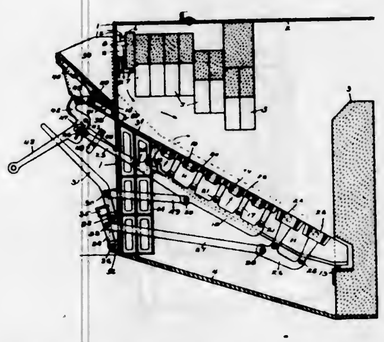
4. The combination with a printing couple, comprising a fixed member and a movable member, of a sheet supporting device arranged near the lower edge of said fixed member and having a part movable into and out of supporting position, and having another part movable into and out of position to engage the face of the sheet near the lower edge thereof, a device connected with said last-mentioned part and arranged in the path of said movable member to move said part into operative position, and an operative connection between said movable member and said sheet supporting device to move both of said parts away from the edge of said fixed member.

1,392,062. SHEET-SUPPORTING DEVICE FOR PRINTING-PRESSES. EMERSON P. JENNINGS, Lehighton, Pa. Filed Nov. 24, 1919. Serial No. 340,154. 21 Claims. (Cl. 101—414.)



4. The combination with a normally stationary member of a printing couple, of a sheet supporting device comprising a bar slidably mounted beneath said stationary member for movement transversely to the plane thereof and a jaw pivotally mounted on said slidable member and yieldably held in a position to clamp the sheet against the face of said stationary member, said stationary member having a part projecting beneath the lower edge of said sheet to engage said jaw and move the same about its axis when rearward movement is imparted to said slidable member.

1,392,063. STOKER FOR FURNACES. GEORGE C. ILLINGWORTH, Cincinnati, Ohio. Filed Apr. 22, 1919. Serial No. 291,986. 4 Claims. (Cl. 110—39.)



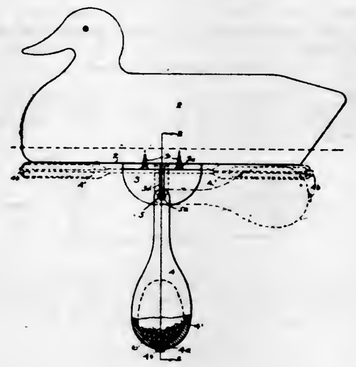
1. In a furnace stoking device, a series of grate bars capable of agitation, means for agitating the grate bars, a coking plate, a ram, means capable of actuation independent of the means for agitating the grate bars, for operating said ram, to feed fuel along the coking plate, and means detachably connecting the ram operating means directly with the grate bars, in order to permit the grate bar agitating means to impart movement to the ram operating means or to permit the ram operating means to actuate the ram independently or jointly with the grate bars.

1,392,064. BUCKLE. JULIUS H. KINTZELE and FELIX P. KINTZELE, St. Louis, Mo., assignors to Keo Manufacturing Company, St. Louis, Mo., a Corporation of Missouri. Filed July 5, 1921. Serial No. 482,396. 6 Claims. (Cl. 24—191.)



1. A buckle, comprising a front plate, side flanges on the front plate, a gripper plate pivoted to the side flanges, a member pivoted to the gripper plate and having sliding connections with said flanges, a connecting plate supported by said member for sliding movements, and an expansion spring located between said member and said sliding plate.

1,392,065. COUNTERBALANCE FOR DUCK-DECOYS. GEORGE W. KLOCK, Syracuse, N. Y. Filed Feb. 28, 1921. Serial No. 448,286. 3 Claims. (Cl. 43—3.)

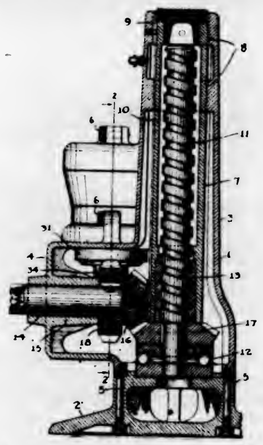


1. In a device of the class described, a pendulum, counter-balance, the top end thereof being perforated, the lower end portion being hollow and adapted to contain more or less ballast for varying the buoyancy of said part, a bracket substantially L-shaped in cross-section, one arm of said bracket adapted to be secured to the bottom of a decoy, the other arm of said bracket disposed vertically, said bracket having a transverse slot which extends partially across both of its arms, the hollow side of said bracket being curved to facilitate the folding of the counter-balance, and a bolt passing loosely through said slot and through the perforation of the counter-balance adapted to be moved from one end of said slot to the other during the folding-up of the counter-balance.

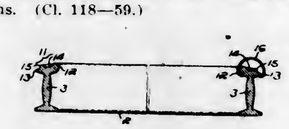
1,392,066. AUTOMATICALLY-CONTROLLED SELF-LOWERING JACK. JOHN C. KOPF, Bellevue, Pa., assignor to The Duff Manufacturing Company, Pittsburgh, Pa., a Corporation of Pennsylvania. Filed Aug. 6, 1920. Serial No. 401,705. 13 Claims. (Cl. 254—103.)

1. A self-lowering jack having an inclosing base frame provided with a standard, a ram vertically guided in said standard, a quick-pitch screw rotatably supported on the base and extending upward within the ram, a horizontal lifting shaft in the base frame geared to the screw, and a worm-wheel on said lifting-shaft, in combination with a shaft journaled vertically in the base frame, a worm

on said vertical shaft meshed by said worm-wheel and adapted to be driven thereby, a manually releasable friction lock on the shaft subject to the end-thrust of the worm, and a speed-controlled brake device also on the vertical axis.



1,392,067. SPINNING-RING. JAMES K. LANNING, Fall River, Mass. Filed Oct. 28, 1915. Serial No. 58,480. 14 Claims. (Cl. 118—59.)

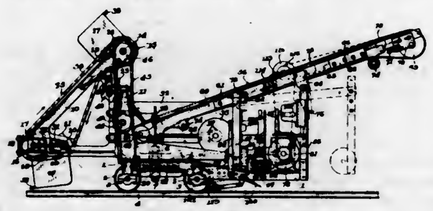


9. A spinning ring provided with a traveler flange, the upper surface of which is concaved and is provided with an annular ridge spaced from the edges of the ring.

1,392,068. METHOD OF PREVENTING FOULING AND COMPOSITION THEREFOR. JOHN ALFRED LILLIE, Liverpool, England, assignor to J. B. Wilkie, Liverpool, England. Filed Oct. 4, 1920. Serial No. 414,643. 3 Claims. (Cl. 134—40.)

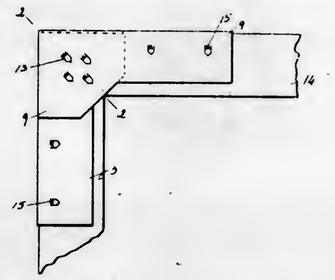
2. A method of preventing fouling on metal surfaces which comprises treating said surfaces with the juice of the Iza, Upa or Ipa berry (*Alchornea cordifolia*, Muell.-Arg.).

1,392,069. SHOVELING-MACHINE. HENRY MCDERMOTT, Iron River, Mich., assignor to McDermott Mechanical Company, Iron Mountain, Mich., a Corporation of Michigan. Filed May 15, 1919. Serial No. 297,219. 14 Claims. (Cl. 37—24.)



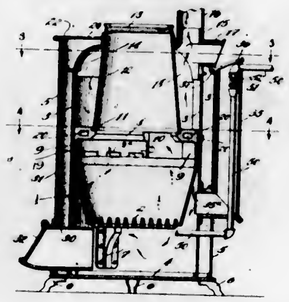
1. In a shoveling machine the combination of a truck, a frame mounted on the truck and provided in the lower and upper parts thereof with transversely alined bearings, shafts mounted in said bearings and provided with belt wheels, belts mounted on said wheels with their upper runs extending obliquely upward and rearward from the lower wheels, guide wheels mounted on said frame below the upper wheels and arranged to direct the lower runs of the belts forwardly from the upper wheels, a scoop connected with the belts and adapted in passing the lower wheels to take up material and in passing over the upper wheels to discharge the material, and a motor for driving the belts and operating the scoop.

1,392,070. ANGLE-JOINT. JOHN MAIERS, Philadelphia, Pa. Filed Dec. 10, 1919, Serial No. 343,894. Renewed Feb. 17, 1921. Serial No. 445,850. 2 Claims. (Cl. 20—92.)



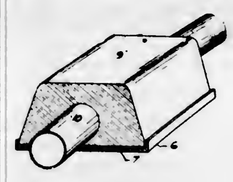
1. As a new article of manufacture an angle joint consisting of a blank having two central sections connected together by a score, wings one set connected to each of the central sections by scorings, each wing having an extension formed therewith, certain of said wings and extensions having rectangular openings formed therethrough, and attaching prongs partially cut from said blank.

1,392,071. HEATING APPLIANCE. HARVEY F. MARANVILLE, Akron, Ohio. Filed May 29, 1916. Serial No. 100,457. 6 Claims. (Cl. 126—107.)



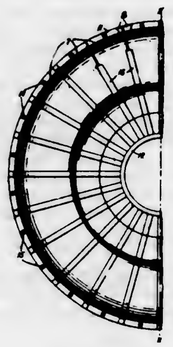
1. In a device of the character described, a hollow upright shell, a firebox supported within said shell intermediate the top and bottom thereof, an annular body supported above said firebox and overhanging the marginal portion of the same, an upright magazine supported upon said body and spaced at all points from said shell, there being an opening through said body at one point, a cover for the annular space between said shell and magazine, an exit for products of combustion from said annular space, and a partition interposed between said exit and the opening in said body whereby the products of combustion are forced to sweep about said annular space.

1,392,072. MOLDING-CORE. THOMAS C. MARSHALL, Mount Savage, Md., assignor to Kelly-Springfield Tire Company, Cumberland, Md., a Corporation of New Jersey. Filed Aug. 8, 1921. Serial No. 490,537. 6 Claims. (Cl. 18—45.)



1. A molding support for preserving a void in the interior of an article of manufacture consisting of vulcanizable material, comprising a formed shell-like hollow structure composed of partially vulcanized material and adapted to become brittle and readily destroyed after the article supported is vulcanized.

1,392,073. END BELL. EMIL MATTMAN, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 4, 1916. Serial No. 88,789. 3 Claims. (Cl. 171—252.)



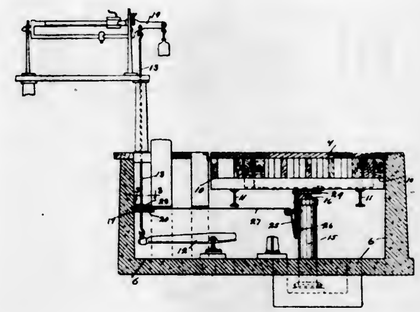
1. An annular end-inclosing structure for dynamo-electric machines comprising a plurality of similar segmental members, rings of different diameters secured to the peripheral portions of said members and radial ribs secured to the abutting edges of said members.

1,392,074. COMPOSITION OF MATTER. WALDO G. MORSE, Yonkers, N. Y. Filed Mar. 12, 1920. Serial No. 365,229. 7 Claims. (Cl. 134—39.)

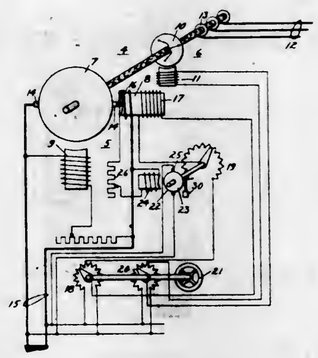
7. A composition of matter comprising kaolin, marl and a binder.

1,392,075. AUTOMATIC LOCK MECHANISM FOR DUMPING-SCALES. CHARLES C. NEALE, Minneapolis, Minn., assignor to Globe Machinery & Supply Company, Des Moines, Iowa, a Corporation of Iowa. Filed Nov. 18, 1920. Serial No. 424,840. 5 Claims. (Cl. 265—71.)

1. The combination with a scale platform having a movable section and a power device normally out of action for moving said section, of a lock operative to lock the scale mechanism and means whereby said lock is automatically brought into action at all times when said power device is caused to act on said movable platform section.



1,392,076. SYSTEM OF EXCITATION FOR SYNCHRONOUS-BOOSTER ROTARY CONVERTERS. FRANK D. NEWBURY, Pittsburgh, and HENRY D. JAMES, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Dec. 13, 1917. Serial No. 206,927. 17 Claims. (Cl. 171—123.)



14. The method of improving the commutation of a synchronous booster rotary converter of the class described, which consists in maintaining a commutating field having a component proportional to the load current of the converter, in maintaining an additional component of commutating field which varies in direction and magnitude in accordance with the adjustments of the voltage of the booster, and in varying said last mentioned component in accordance with both the boosted voltage and the load current of the converter.

1,392,077. AUTOMATIC STOP. FRANK OBERST, Glendale, N. Y., assignor to Sonora Phonograph Corporation, a Corporation of New York. Filed July 2, 1919. Serial No. 308,131. 6 Claims. (Cl. 192—116.)

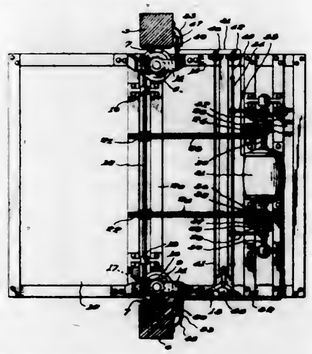
1. A device of the character described, comprising a pivoted brake beam, a pivoted lever engaging the brake beam for holding the brake in released or off position, and a piv-

otally mounted member for moving said lever to inoperative position to permit the brake to be applied, the pivots



of the brake beam, the lever and member all being substantially in the same straight line.

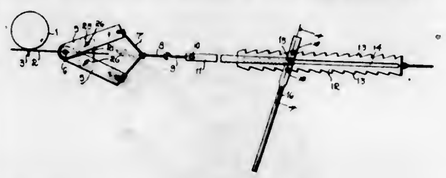
1,392,078. ELEVATOR. CHARLES E. OUILLETT, Lowell, Mass. Filed July 18, 1919. Serial No. 311,751. 4 Claims. (Cl. 187—25.)



1. In an elevator, the combination, of upright beams, racks carried by said beams, a cage, a pair of worms rotatably carried by said cage and meshing with said racks to elevate or lower the cage upon rotation of the worms, an electric motor carried by said cage, a pair of clutches controlling the operative connection of said motor with said worms, a shifting rod connected to said clutches, cables connected to said shifting rod, a lever, said cables connected to said lever and movable parallel with the longitudinal run of the motor whereby said rod may be shifted by the pivotal movement of said lever for establishing operative communication between the motor and the worms.

1,392,079. WIRE-STRETCHING APPARATUS. LOGAN A. RIDDLE and LYON R. RIDDLE, New Albany, Ind. Filed Nov. 13, 1919. Serial No. 337,770. 1 Claim. (Cl. 254—83.)

A wire stretcher comprising a pair of jaw structures inclined to one another each comprising hinged members having perforations intermediate the hinge and the extremities, gripping members having beveled ends with trunnions extending longitudinally beyond such beveled ends, said trunnions being seated in the perforations, means retaining the trunnions in the perforations, means



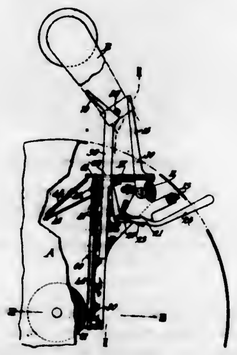
connecting the extremities of the jaw members to exert clamping stress thereon, and means connecting the connecting means to apply such stress simultaneously to both pairs of jaw members.

1,392,080. SUPERHEATER IN STEAM-BOILERS. DAVID RUTHERFORD ROSS, Coburg, Victoria, Australia. Filed June 19, 1920. Serial No. 390,087. 4 Claims. (Cl. 122—464.)



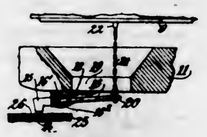
1. A steam super-heater comprising a body member in which there are tiers of compartments, one tier having end compartments and an intermediate compartment, together with a longitudinal compartment adjacent the aforesaid compartments, another tier having end compartments and a central compartment, and a plurality of tubes making connection from the end compartments in the said first tier thereof to the end compartments in the second tier thereof, then from the end compartments in the said second tier to the longitudinal compartment in the first tier, then from the said longitudinal compartment in the first tier to the central compartment in the second tier, and finally from the central compartment in the second tier to the intermediate compartment in the first tier.

1,392,081. AUTOMATIC STOP FOR TALKING-MACHINES. WILLIAM GENTRY SHELTON, New York, N. Y. Filed Mar. 4, 1920. Serial No. 363,209. 15 Claims. (Cl. 192—116.)



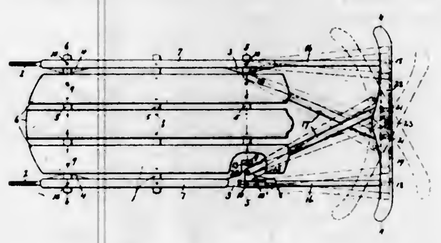
1. A stopping mechanism for talking machines, comprising a stopping device, and means for actuating said stopping device to stop the operation thereof, said means comprising an actuating part, means for moving said actuating part for an indeterminate period, means moved by the reproducer-support for holding said actuating part in engagement with said indeterminate moving means, and means normally tending to move said actuating part out of engagement with said indeterminate moving means, said indeterminate moving means being adapted to move said actuating part away from said holding means and allow said actuating part to move to actuate said stopping device, when said holding means ceases to move by reason of the reproducer ceasing to be moved by the record.

1,392,082. UNIVERSAL REPRODUCER. WILLIAM GENTRY SHELTON, New York, N. Y. Filed Nov. 21, 1917. Serial No. 203,153. Renewed June 6, 1921. Serial No. 475,555. 5 Claims. (Cl. 274—28.)



1. In a sound reproducer, the combination with a diaphragm, of a stylus adapted to traverse the groove of a talking machine record, a support for such stylus mounted to permit the stylus to respond in accordance with undulations at the bottom of the record groove and in accordance with undulations at the sides thereof, and a dual functioning connection between said stylus and diaphragm transmitting movements to said diaphragm which are imparted to said stylus by either said undulations at the sides of the record groove or at the bottom of the record groove.

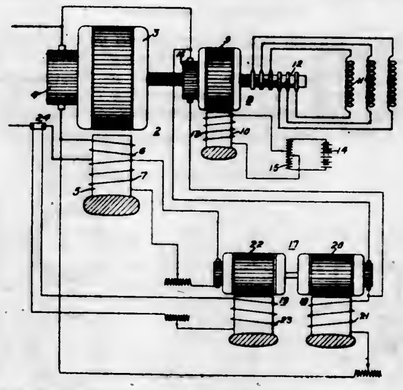
1,392,083. HAND-SLED. WILLIAM E. SHERWOOD, Canastota, N. Y. Filed Feb. 3, 1920. Serial No. 355,975. 4 Claims. (Cl. 280—22.)



1. In a hand-sled, the combination of a platform, braces secured to the platform, runners secured to the braces, and having forwardly upwardly curved front ends, a cross-bar connecting the front ends of the runners, a lever pivotally mounted on the cross-bar, links crossing each other between the lever and platform and having their rear ends connected to the braces and their front ends connected to the lever at opposite sides of its pivot.

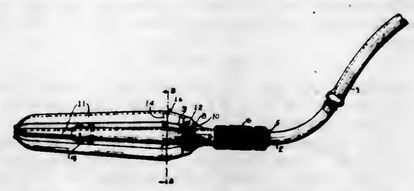
1,392,084. FIELD-CONTROL SYSTEM FOR SYNCHRONOUS BOOSTER ROTARY CONVERTERS. MARVIN W. SMITH, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Jan. 16, 1919. Serial No. 271,438. 9 Claims. (Cl. 171—123.)

1. The combination with a rotary converter, of a booster electrically associated therewith and means varying in accordance with the voltage of said booster for supplying a direct-current voltage in series with



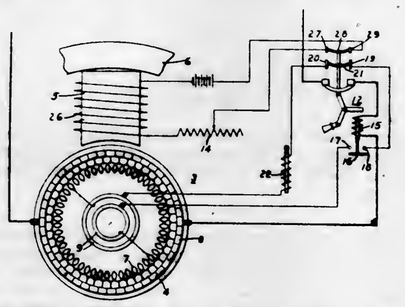
the direct-current voltage of said converter for deriving a resultant direct-current voltage differing from the direct-current voltage of the converter.

1,392,085. SYRINGE. FREDERICK W. STANTON, Chicago, Ill. Filed Sept. 28, 1920. Serial No. 413,276. 3 Claims. (Cl. 128—244.)



1. A syringe, comprising a conducting tube having a screw-threaded portion and a fulcrum member fixed thereon, a screw sleeve engaged with said screw-threaded portion, a sliding yoke in thrust engagement with said sleeve, dilating fingers engaging said fulcrum member and pivotally-connected with said yoke, a sliding collar engaging said pivoted fingers, and a spring bearing against said collar.

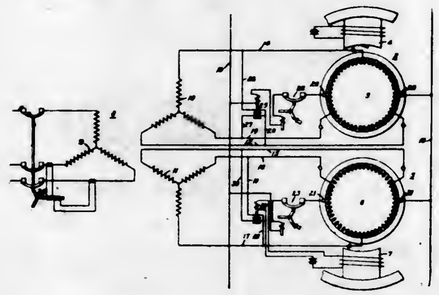
1,392,086. MEANS FOR REDUCING COMMUTATOR-FLASHING. NORMAN W. STORER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Nov. 23, 1917. Serial No. 203,527. 26 Claims. (Cl. 171—228.)



1. The combination with a dynamo-electric machine of the commutator type, of means for interconnecting

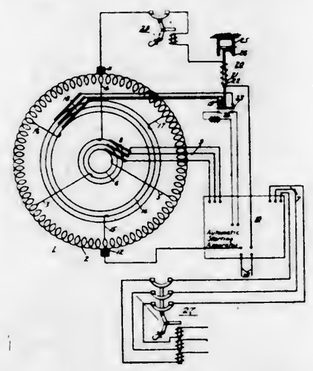
a plurality of points of different potential in the armature winding thereof upon the passage of abnormal current therethrough.

1,392,087. MEANS FOR SUPPRESSING FLASH-OVERS IN ROTARY-CONVERTER SYSTEMS. NORMAN W. STORER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 25, 1918. Serial No. 246,758. 10 Claims. (Cl. 171—228.)



2. The combination with a rotary converter, of a supply transformer therefor, a load circuit connected thereto, and means for interconnecting at least two supply leads between said transformer and said converter upon the occurrence of abnormal current flow in said load-circuit.

1,392,088. MEANS FOR REDUCING COMMUTATOR-FLASHING IN ROTARY CONVERTERS. NORMAN W. STORER, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 13, 1918. Serial No. 222,083. Renewed July 9, 1921. Serial No. 483,607. 9 Claims. (Cl. 171—228.)



1. The combination with a rotary converter, of means for automatically interconnecting points in the armature winding thereof upon the flow of abnormal load current therefrom.

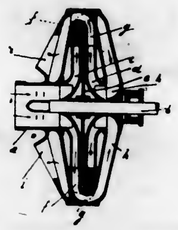
1,392,089. FOUNTAIN-PEN. JOHN STRAKA, Chicago, Ill., assignor of one-half to Joseph R. Lewis, Chicago, Ill. Filed Sept. 25, 1920. Serial No. 412,797. 3 Claims. (Cl. 120—46.)

2. A fountain pen, comprising a tubular handle, and a collapsible fountain pen reservoir contained therein, said handle having an opening in its wall for access to said reservoir, and there being a depressed ledge at the marginal edge of said opening having a portion located beyond a plane passing through the axis of the handle,



and a resilient cover for said opening conforming to the shape thereof, and gripping said ledge, said cover being flush with said handle.

1,392,090. ROTARY PUMP. MARIO TAMINI, Milan, Italy. Filed June 23, 1920. Serial No. 391,126. 2 Claims. (Cl. 253—188.)



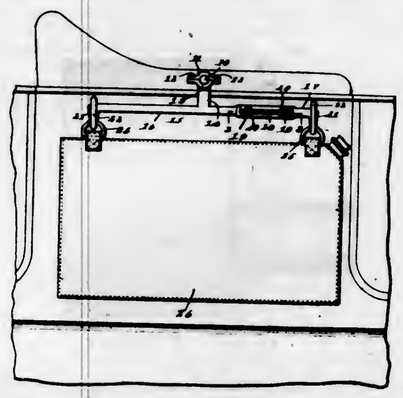
1. A multiple rotary pump comprising an impeller with two groups of blades arranged one on each side of a central web, a peripheral distributer comprising two sets of passages, one set leading from the outlets of the first blade group to the inlets of the second blade group, and the other set from the outlets of the second blade group to the discharge, these sets of passages being so arranged that the fluid flows alternately in opposite directions in the two sets and that parts of said passages lying parallel to the axis of the impeller are located at equal distances from the said axis.

1,392,091. ELECTRIC FITTING. GEORGE B. THOMAS, Bridgeport, Conn., assignor to The Bryant Electric Company, Bridgeport, Conn., a Corporation of Connecticut. Filed Dec. 4, 1918. Serial No. 265,254. 7 Claims. (Cl. 173—334.)



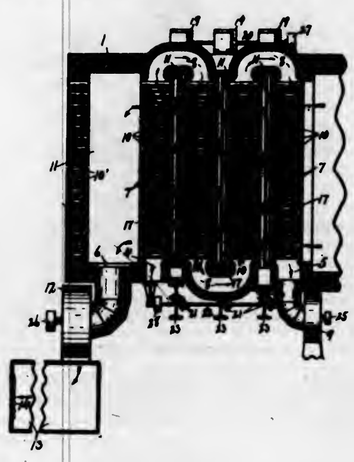
1. An electric fitting having independent insulating blocks, wire terminals carried by one of said blocks, lamp terminals carried by the other of said blocks, and means for mechanically securing said blocks together and for establishing electric connection between the respective wire and lamp terminals thereon to form a complete, self-contained lamp socket, in combination with an insulating button adapted to be interposed between said base and socket body and having conductors cooperating with the conductors thereof together with receptacle contacts electrically connected to said conductors and marginal passage means opening to said receptacle contacts and adapted to form guide means for the coöperating contacts of an attaching plug.

1,392,092. AUTOMOBILE-WATER-BAG HOLDER. LOYD E. THOMPSON, Island City, Oreg. Filed Feb. 24, 1919. Serial No. 278,791. 2 Claims. (Cl. 224—29.)



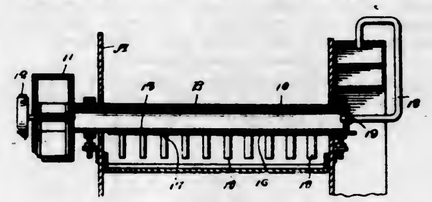
2. A bracket comprising a longitudinally extensible arm, means for removably securing the arms to a support, hooks located at each end of said arm, said hooks including a laterally disposed seat formed by bending the hooks to provide a substantially straight slot and an open offset mouth providing an entrance to said slot.

1,392,093. SMOKE-PURIFYING ATTACHMENT FOR FUEL-BURNING HEATERS. ODEON H. TITUS, Jamesville, N. Y. Filed Mar. 29, 1919. Serial No. 286,206. 10 Claims. (Cl. 257—240.)



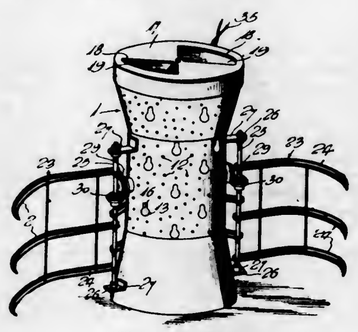
1. In a smoke purifying apparatus, the combination with a fuel burning heater having an outlet for the products of combustion, of a horizontally extending casing communicating at one end with said outlet, and a plurality of hollow partitions extending across the interior of the casing in parallel spaced relation lengthwise of the casing to form intervening collecting chambers for solid products of combustion, each hollow partition having a series of relatively small tubes extending therethrough lengthwise of the casing for conducting the products of combustion from the outlet of the heater to the several collecting chambers in sequence.

1,392,094. ATTACHMENT FOR GRAIN-SEPARATORS. WILLIAM E. TOLER, Pawnee, Okla. Filed Feb. 10, 1920. Serial No. 357,743. 1 Claim. (Cl. 130—24.)



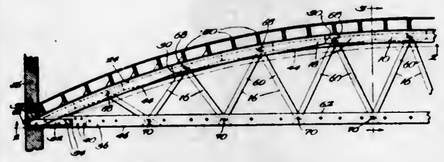
An attachment for grain separators comprising a pipe extended transversely of the machine in front of the riddles thereof, said pipe having perforations along the underside and successively increasing in size from one end of the pipe to the other, guide flanges secured to the pipe longitudinally thereof, a plate slidably fitted between said guide and having a longitudinal series of openings adapted to be moved across the perforations of said pipe, a plurality of small depending pipes projecting from the openings of said plate for the purpose specified.

1,392,095. MAN-CATCHING TANK. STANLEY VALINSKI, Homestead, Pa. Filed Jan. 20, 1921. Serial No. 438,807. 5 Claims. (Cl. 43—59.)



1. A device of the class described comprising a portable armored watch-box for the watchman, a man-catching and holding device arranged on the exterior thereof, and means on the interior of the box for operating said catching device.

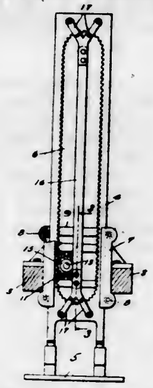
1,392,096. ROOF-TRUSS. NICHOLAS J. WAGNER, Chicago, Ill. Filed Jan. 10, 1920. Serial No. 350,628. 6 Claims. (Cl. 108—23.)



1. A roof truss comprising a curved upper chord connected from end to end by a lower chord, the two chords connected together intermediate of their ends by lattice members, the upper chord being a laminated structure composed of a plurality of layers of boards placed side by side in direct contact with each other throughout the truss length, each layer being made up of a plurality of

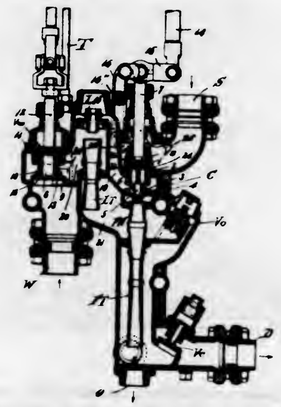
abutting boards placed on edge and staggered with reference to each other, the upper edge of each board being curved to the curvature of the truss; the successive boards being all alike so that the whole truss can be produced by using multiples of one board and definite fractions thereof at the extreme ends of the truss.

1,392,097. COTTON-PACKER. FRENCH B. WILLIAMS, Dallas, Tex. Filed May 11, 1920. Serial No. 380,506. 1 Claim. (Cl. 100—25.)



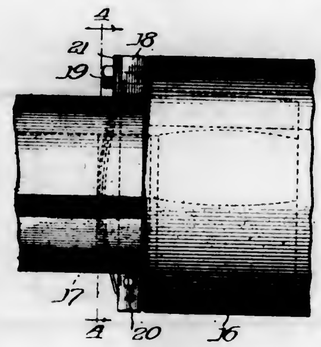
In an apparatus of the class described having a reciprocating member, a continuous rack on said member composed of parallel side portions and curved end portions connecting the side portions, a drive shaft, a pinion thereon engaging the rack, a guide bar carried by the reciprocating member and a roller carried by the shaft and engaging said bar for holding the pinion in engagement with the rack at all times, the combination of a horizontally movable carriage supporting the pinion end of the shaft and a track for said carriage.

1,392,098. BOILER-FEEDING INJECTOR. BELVIN T. WILLISTON, Somerville, Mass., assignor to Manning Maxwell and Moore, Inc., New York, N. Y., a Corporation of New Jersey. Filed Aug. 12, 1919. Serial No. 317,023. 16 Claims. (Cl. 162—1.)



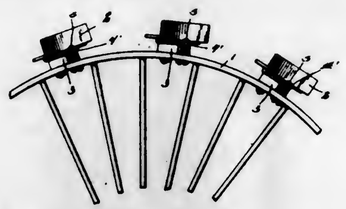
1. An injector device comprising a steam valve, a seat therefor, means for lifting said valve from its seat to a predetermined amount, and means for permitting the passage of steam in minute quantities only through said valve when so raised.

1,392,099. COUPLING-KEEPER. HENRY W. WILSON, Duluth, Minn. Filed Nov. 29, 1920. Serial No. 427,028. 10 Claims. (Cl. 64—91.)



10. A shaft, a coupling associated therewith, a transverse slot in the shaft, a leaf spring and a bar carried by the shaft and extending through the slot in the shaft, the spring being adapted to engage a side of the slot and the bar coupling adjacent the opposite side of the slot whereby the parts are resiliently urged relative to each other by the spring, their relative movement being limited by the bar.

1,392,100. TRACTOR-LUG. DON S. WOLVERTON, Doland, S. D. Filed May 22, 1920. Serial No. 383,470. 2 Claims. (Cl. 305—18.)



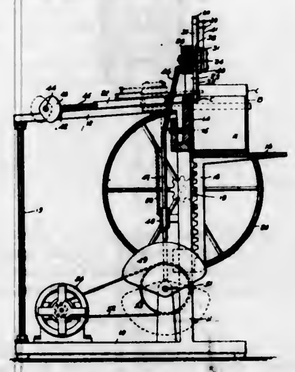
2. In combination with a rim of a vehicle wheel, a plurality of lugs arranged about said rim, blocks bolted to the rim and having semi-circular grooves formed therein, a semi-circular bearing provided on each lug and adapted to be seated in the grooves formed in the blocks, a pin passing through said bearing and secured to the rim.

1,392,101. ABDOMINAL BELT. FREDERIC GEORGES BAUGATZ, Paris, France. Filed May 20, 1918. Serial No. 235,563. 2 Claims. (Cl. 2—188.)



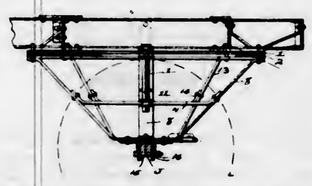
1. A maternity band comprising a flat front part of elastic fabric expansible in the direction of the length of said band having the elasticity of the upper portion unimpeded throughout the length thereof, non-elastic elements arranged at intervals on the lower portion of said front part and secured to it so as to substantially reduce the elasticity of said lower portion, a non-elastic border secured to said front part around its lower edge and a belt secured to said border and adapted to coöperate with the back of the wearer to support said front part in such a way that the supporting thrust is taken solely by the portion of the reduced elasticity leaving the part of greatest elasticity freely expansible.

1,392,102. BOX-FINISHING MACHINE. ARTHUR BELL, Ridgefield Park, N. J. Filed Apr. 13, 1921. Serial No. 461,056. 10 Claims. (Cl. 93—54.)



1. In a box finishing machine, a base plate against which the box sides are adapted to be successively held, means for registering the edge of its mouth with the edge of the plate and means slidable over said registered edges and swingable downward within the mouth of the box, said means adapted to coact with the extended portion of the box covering to turn the same within the box mouth and press the same thereagainst to paste it thereto.

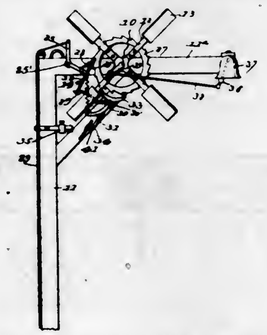
1,392,103. TRUCK. ALEXANDER M. BELLONY, U. S. Army. Filed May 7, 1919. Serial No. 295,467. 1 Claim. (Cl. 280—114.) (Filed under the act of Mar. 3, 1883, 22 Stat. L., 625.)



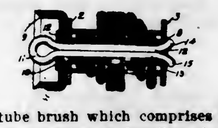
In a vehicle truck the combination with an axle boxing including two elongated members between which an axle is disposable; of a bearing ring, a support for such ring mounted on the axle housing and embodying a trio of inverted V-shaped brackets one of the latter being located in a plane at right angles to the other two and a plurality of intersectioning cross bars interconnecting the free extremities of the several brackets.

1,392,104. RAILROAD-CROSSING SIGNAL. ANTON BERG, Rolla, Mo. Filed May 27, 1920. Serial No. 384,626. 4 Claim. (Cl. 246—294.)

A railroad signaling apparatus having a rotary blade or flag carrying shaft, a wheel operated trip or treadle mechanism, means for communicating motion from the trip or treadle to said shaft, the same including a ratchet wheel on the shaft, a bell-crank lever operatively connected with the treadle and carrying a ratchet engaging pawl, a fixed bell-crank lever having one arm arranged in the path of the tail of said pawl to act as a stop for the same and for the first bell-crank lever on the return oscillations of the same, a spring tensioned between the other arm of the fixed bell-crank lever and the first said bell-crank lever, and an escapement yoke having its terminals in operative relation with the teeth of the ratchet wheel and provided with an arm equipped with an adjustable stop for contact with one of the arms of the fixed bell-crank lever for the purpose specified.



1,392,105. BOILER-TUBE BRUSH. JOHN BERGESEN, Sr., Brooklyn, N. Y., assignor of one-half to Junius Bergesen, Brooklyn, N. Y. Filed May 13, 1921. Serial No. 469,231. 3 Claims. (Cl. 83—64.)



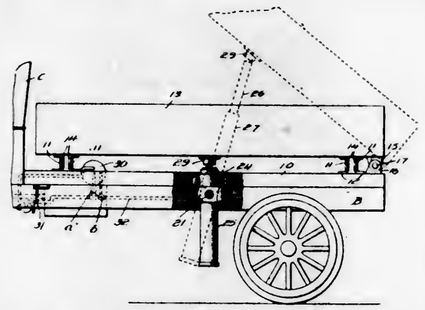
1. A boiler tube brush which comprises a hollow cylindrical body portion having a plurality of apertures in its surface, an apertured plate disposed at each end of the body portion, a plurality of bristles extending in different directions from the body portion and passing through the apertures, and means extending through and within the body portion to clamp the bristles between itself and the inner surface of the body portion, said clamping means at its ends passing through and engaging the outer surface of said plates to hold the plates in proper relation with respect to the body portion.

1,392,106. REMOVABLE COVER FOR UMBRELLAS. WILLIAM BERGFIELD, New York, N. Y. Filed Nov. 23, 1920. Serial No. 425,948. 1 Claim. (Cl. 135—34.)



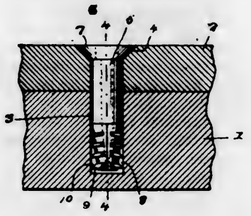
An umbrella cover of pliable material, and a head therefor composed of an inner and an outer tapered member with their adjacent ends overlapped with the cover secured to the inner member and the outer member adapted to closely embrace the umbrella stick, means securing said overlapped ends together, and a reinforcing ferrule upon the inner face of the inner member and receiving the said securing means.

1,392,107. TILTING MECHANISM FOR DUMPING-BODIES. GEORGE W. BERRY, Kane, Pa. Filed Apr. 3, 1920. Serial No. 371,045. 8 Claims. (Cl. 298—22.)



8. The combination with a hoisting jack adapted to be connected with a superposed body, the latter being adapted to be superimposed upon a wheeled truck, of means for supporting the jack and located intermediate the ends of the vehicle chassis for permitting lateral and longitudinal swinging movement of said jack for the side and end dumping of the body.

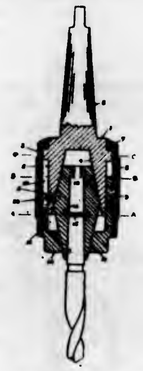
1,392,108. EXPANSIBLE SCREW. JOHN A. BILTEMAN, Albia, Iowa. Filed Dec. 13, 1920. Serial No. 430,330. 2 Claims. (Cl. 85—2.)



1. A wood screw designed to be received in an opening bored through plates to be connected, including a shank which is snugly received in the opening, a head on the one end of the shank, and an inwardly flared portion on the opposite end of said shank, said flared portion being slotted longitudinally and provided with spaced teeth all of an equal diameter and all beveled from their inner to their outer edges upon the inner faces thereof, said shank having a bore therethrough which is flared inwardly at the flared portion of the shank, and a spreader key designed to be inserted into the bore and forced against the flared portion thereof to spread the segmental sections at the end of the shank against the wall of the opening, and to also cause the teeth thereto to enter the said wall and incident to the formation of the said teeth to exert a longitudinal movement on the shank to bring the head thereof in tight engagement with the outer plate.

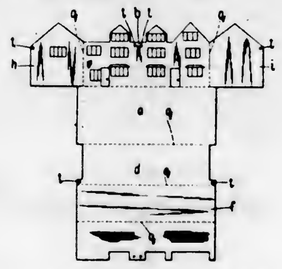
1,392,109. CHUCK. DAVID LOGAN BISSET, Montreal, Quebec, Canada. Filed Jan. 17, 1920. Serial No. 352,157. 1 Claim. (Cl. 279—56.)

In a chuck, in combination, a jaw socket member having a tapered recess in the cylindrical body portion, and an annular flange adjacent to the inner end of said body, a plurality of jaw members together forming a double cone-shaped shank holder tapering from the central portion to the ends, one tapered portion being inserted in said jaw recess and the other projecting outwardly therefrom and spring-held apart, a chuck head forming a jaw-contracting member, having a tapered mouth engaging said outwardly projecting tapered portion, and a barrel



extension slidably and non-rotatably arranged on said body and externally threaded, and an operating sleeve internally threaded and engaging said barrel extension of the chuck head and rotatable on said annular flange.

1,392,110. COLLAPSIBLE HUT AND OTHER COLLAPSIBLE STRUCTURE. JOSEPH BLASCHECK, Westcliff-on-Sea, England, assignor to Blascheck Patents Limited, London, England, a Company of the United Kingdom of Great Britain and Ireland. Filed Mar. 21, 1921. Serial No. 454,215. 3 Claims. (Cl. 20—2.)

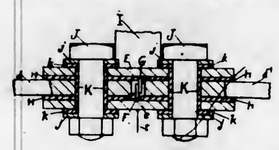


1. A collapsible structure comprising a floor part, opposite walls hinged to the corresponding edges of said floor part, walls extending between the ends of the aforesaid walls hinged to the vertical edges of one of them, a roof hinged to the upper edge of the wall opposite the one to which the end walls are hinged and across which it extends, holes near the top of the wall adjacent to the outer edge of the roof also near the outer edge of the end walls and in that part of the wall adjacent to the outer edge of said end walls when in their erected positions, and cords attached to the outer edge of the roof passing successively through one of the holes in the adjacent wall and afterward through the hole in one of the end walls to which it is attached and finally through the hole in the wall adjacent thereto when the structure is in its erected position substantially as set forth.

1,392,111. RAMP-RAIL INSTALLATION. ANDREW J. BROOKINS, Chicago, Ill. Filed Oct. 18, 1920. Serial No. 417,705. 10 Claims. (Cl. 246—49.)

7. A ramp rail comprising a plurality of sections, tie members to join said sections and insulated therefrom, an electric conducting member to electrically connect said

tie members to a rail of a trackway, means to selectively energize a predetermined one of said sections, said means having as elements thereof a source of electrical energy, a conductor from said source to said predetermined sec-



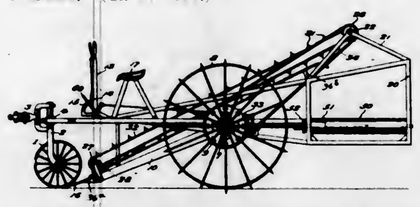
tion and an additional conductor from said source to said tie members; and said means adapted to form a closed and energized electric circuit upon the breaking down of said insulating means.

1,392,112. VALVE AND GRINDING MECHANISM THEREFOR. HUGH C. BROWN, Philadelphia, Pa. Filed Oct. 9, 1920. Serial No. 415,771. 2 Claims. (Cl. 51—29.)



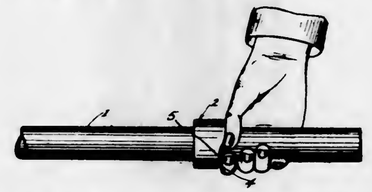
1. A valve grinding tool, comprising a shank, a curved fixed jaw forming an extension of one end of the shank, a movable jaw shaped in conformity with the fixed jaw and pivoted to the shank at the inner end of the fixed jaw, said movable jaw including an integral finger receiving extension, an expansion spring interposed between the extension and the shank tending to close the jaws, and means limiting the action of the spring.

1,392,113. BEAN-HARVESTER. GLENN D. CARR, Cambridge, Nebr. Filed June 15, 1920. Serial No. 389,152. 4 Claims. (Cl. 56—153.)



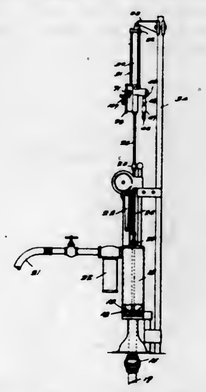
1. In a bean harvester, the combination of a wheeled main frame, a buncher frame carried at the rear of the main frame, spaced longitudinal and vertical swinging beams connected with the main frame and extending downwardly and forwardly from the points of connection, ways supported on the main frame and extending rearwardly and upwardly beyond the same and adapted to discharge into the buncher frame, a transverse shaft supported above the buncher frame, idlers supported above the forward portions of the beams, elevator aprons mounted upon and connected with said shaft and idlers, knives with inner, rearwardly converged cutting edges, carried at the forward ends of the beams, a driving connection intermediate one of the ground wheels and the transverse shaft above the buncher frame, means for discharging beans from said buncher frame, and means for adjustably fixing the beams with respect to the main frame.

1,392,114. WHEELBARROW-HANDLE. HERBERT M. CASWELL, Kingman, Ariz. Filed Sept. 3, 1920. Serial No. 407,967. 1 Claim. (Cl. 280—52.)



A wheel barrow having abutment elements on the handles thereof, said abutment elements having concavities in the rear edges of said elements at the bases of the same.

1,392,115. METERING-MOTOR. HERBERT W. CHENEY, Milwaukee, Wis. Filed Mar. 29, 1917. Serial No. 158,294. 15 Claims. (Cl. 221—103.)

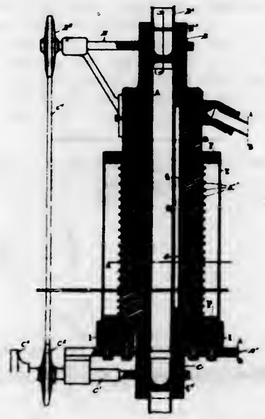


1. In combination, a reciprocating fluid pressure motor, a direction-controlling valve operated by said motor at the ends of the strokes thereof for reversing the direction of movement, a main valve controlling the supply of fluid pressure to said motor, setting means adjustable for different numbers of motor strokes and operating to shut the main valve at the end of a number of strokes corresponding to such setting, and interlocking means for preventing the operation of said setting means save when said main valve is shut.

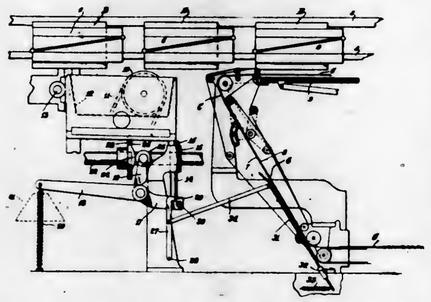
1,392,116. AUTOMATIC INDICATOR OF THE PROPORTION OF MOISTURE. MARCEL CHOPIN, Nancy, France, assignor to himself and LA SOCIETE ANONYME des Grands Moulins de Vilgrain, Nancy, France. Filed Aug. 7, 1920. Serial No. 401,995. 9 Claims. (Cl. 73—51.)

1. The method of automatically and continuously determining the percentage of water contained in pulverulent

or granular material, consisting in passing the material through a chamber while maintaining a constant quantity therein, which chamber is heated to a temperature sufficiently high to convert approximately the entire moisture content of the material into steam; and then measuring the quantity of steam given off per unit of time.

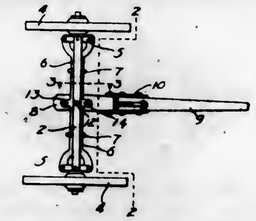


1,392,117. DETECTOR-CONTROLLED GLUING MECHANISM. LE GRAND L. CLARK, New York, N. Y., assignor of one-half to The Sheridan Iron Works, a Corporation of New York, and one-half to T. W. & C. B. Sheridan Company, a Corporation of New York. Filed Nov. 14, 1919. Serial No. 338,021. 2 Claims. (Cl. 91—51.)



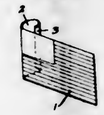
1. In combination, means for conveying books or analogous articles with the under surface thereof exposed, means for applying covers or sheets to the exposed under surfaces of the articles, means for conducting the sheets successively to the point of application, a glue applying device adapted to apply glue to the under side of each article before the application of a sheet thereto, the same adapted to rise to the article to be glued and to descend to an inoperative position, a yielding means tending to lift the glue device to operative position, timed connections acting after each gluing operation for causing the glue device to descend to inoperative position and allowing it to rise for the next operation, a normally inoperative lock device adapted to act when the gluing device is in its lowered position for holding it down against the lifting tendency of said yielding means, and detector-actuated connections, controlled by the presence of the sheets in said sheet conducting means, adapted for rendering operative said lock device, and thereby preventing the application of glue to the article when the corresponding sheet is missing, without stopping the machine.

1,392,118. VEHICLE RUNNING-GEAR. WILLIAM CONWAY, Soo, Ontario, Canada. Filed Mar. 1, 1920. Serial No. 362,183. 1 Claim. (Cl. 280—103.)



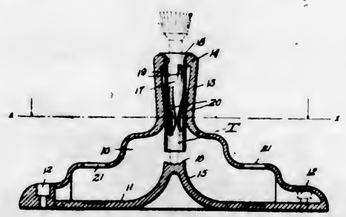
A wagon gear comprising a front axle, straps secured to the upper and lower faces of said axle and having their ends projecting beyond the ends of the axle, spindle knuckles pivoted between the said ends, arms projecting from the front and rear of each knuckle, rods slidably mounted on the front and rear faces of the axle and having their ends curved outwardly and pivotally connected with the arms, a tongue pivoted to the axle and having a rear part extending beyond the axle, a slotted offset part at the center of each sliding rod and bolts in the tongue and engaging the slots in said offset parts.

1,392,119. CLIP. HERBERT H. CORBIN and PETER VELLEMA, Grand Rapids, Mich. Filed Aug. 9, 1917. Serial No. 185,325. 1 Claim. (Cl. 24—259.)



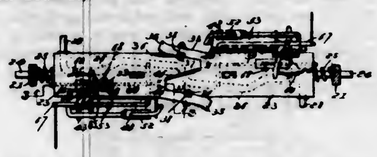
A clip comprising a body having an inner surface, and an outer display surface, one end of the body being curved backwardly to define a flat tongue which is approximately parallel to the body, the extremity of the tongue being convexed and having a gripping edge disposed obliquely with respect to the length of the body and pressed yieldingly against the inner surface of the body, the extremity of the tongue being disposed at an angle to the inner surface of the body to form an entering throat, the tongue being offset to project beyond one longitudinal edge of the body, for the convenient manipulation of the tongue.

1,392,120. UMBRELLA-HOLDER. CHARLES A. COOPER, New York, N. Y. Filed Aug. 13, 1920. Serial No. 403,310. 1 Claim. (Cl. 45—33.)



An umbrella stand comprising a closed hollow base constituting a receptacle for drip water, an upstanding tubular socket on the upper wall of said receptacle having communication with the interior, an interior upstanding pedestal provided on the bottom wall of the receptacle in vertical alinement with the socket for supporting an umbrella tip inserted therein, and means within said socket for holding the umbrella tip in spaced relation thereto to permit the drip water to freely drain from the umbrella into the receptacle.

1,392,121. AUTOMATIC TRAIN-PIPE CONNECTOR. TONY CRAVELONE and CARL MARTELLO, Anaconda, Mont. Filed Feb. 10, 1920. Serial No. 357,654. 10 Claims. (Cl. 284—9.)



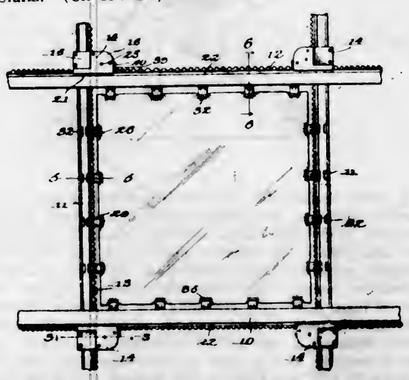
1. A train pipe connector having complemental heads provided with interlocking jaws, each head having an air passage in communication with the train pipe and terminating at the face of one of the jaws for registration with the terminal of the corresponding air passage of the complemental head, a main valve for controlling said air passage, means operable upon the engagement of the two heads to effect a partial opening of the said main valve, and means for completing the opening movement of said valves subsequent to the completion of the coupling operation of the heads.

1,392,122. RAZOR-BLADE HOLDER. JOSEPH P. CADISE, Chicago, Ill. Filed Oct. 23, 1920. Serial No. 418,962. 5 Claims. (Cl. 30—25.)



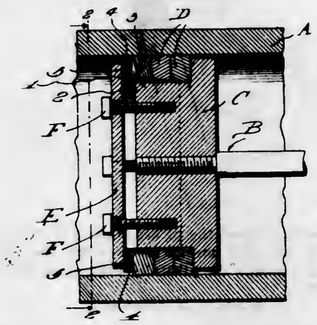
1. A razor blade holder comprising a handle, gripping plates carried by the handle, each comprising a curved member having a resiliency whereby the gripping portions of the plates tend to spring toward each other, a manually operated screw extending into the space between the said gripping plates, and means carried by the screw and connected to the plates whereby the said gripping plates may be drawn toward each other when the screw is manually operated to be drawn outwardly of the space between the said plates.

1,392,123. EMBROIDERY-FRAME. VITO DANISI, New York, N. Y. Filed Oct. 31, 1919. Serial No. 334,655. 1 Claim. (Cl. 45—24.)



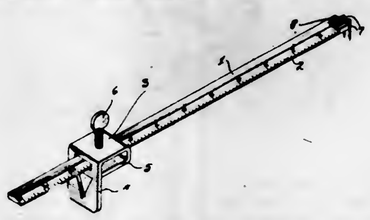
In an embroidery frame, a plurality of relatively adjustable rails constituting a work supporting frame, connecting and actuating devices carried by said rails and co-acting therewith for effecting relative adjustments of the same with respect to each other, clamping elements carried by said rails, and receiving portions formed in said rails adjacent said clamping elements for the reception of the same when thrown to an inactive position.

1,392,124. COMBINED FOLLOWER AND EXPANDER FOR PACKING-RINGS. LLOYD H. DONKEL, Macon, Ga., assignor of one-half to Samuel G. Pate, Macon, Ga. Filed Jan. 17, 1921. Serial No. 437,880. 3 Claims. (Cl. 74—109.)



1. In combination, a piston head, a compressible packing ring arranged thereon, a self-actuated split radially expansible expander disposed between the head and packing ring, and an actuator for moving the expander toward the inner end of the piston, said expander being normally expanded but becoming more and more contracted when moved inwardly by said actuator thus the inherent resiliency of the expander causing it to resist such contraction and permitting it to function as an expander to compress the packing ring.

1,392,125. GAGE FOR LOOMS. JACOB DUDASH and ISIDORE DUDASH, Lawrence, Mass. Filed Sept. 1, 1920. Serial No. 407,426. 1 Claim. (Cl. 33—42.)

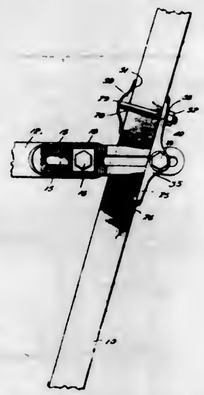


A cloth weaver's gage comprising a graduated bar, a pair of spaced prongs fixed at right angles to one end of said bar, said prongs being adapted to enter between the threads of the warp, a slide movable on said bar, means for clamping said slide in adjustment, and a plate extension on said slide adapted to engage over the breast of a loom.

1,392,126. LOOM ATTACHMENT. WILLIAM H. DUMAS, Lebanon, N. H., assignor of one-half to Joseph Moore, Lebanon, N. H. Filed July 11, 1918. Serial No. 244,453. 1 Claim. (Cl. 139—48.)

In a device of the class described, a picker stick, a sweep stick, a plate mounted on one side of the picker stick and provided with slots extending longitudinally of the picker stick and also provided with apertures in ap-

proximate alinement with the slots, slotted straps extending on opposite sides of the sweep stick and passing respectively through the slots in the plate, and a staple

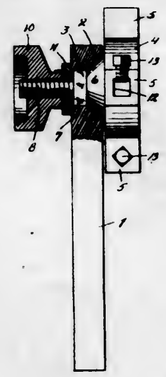


member passing around the picker stick, and through the apertures in the plate, means for securing the staple to the plate, and means for pivotally connecting the straps with the plate.

1,392,127. INSULATING AND BUILDING MATERIAL AND METHOD OF PRODUCING SAME. TORGNY ALBIN EKLUND, Stockholm, and CARL GÖSTA LÖFVEBERG, Visby, Sweden. Filed Mar. 11, 1920. Serial No. 365,053. 2 Claims. (Cl. 106—18.)

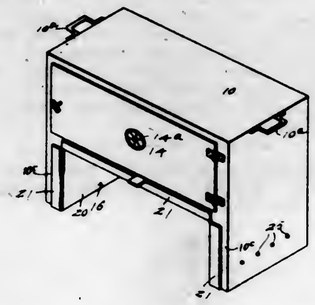
2. An insulating and building material consisting of a mixture of marl and cellulosic fiber.

1,392,128. TURRET TOOL-HOLDER. FRED EKMAN, Honolulu, Hawaii. Filed Apr. 3, 1918. Serial No. 226,448. 1 Claim. (Cl. 29—49.)



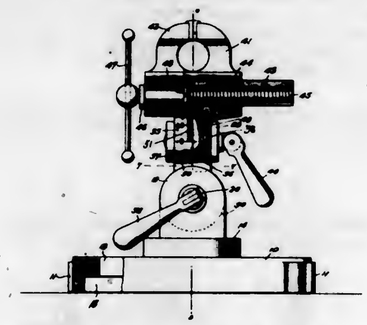
The combination with a standard provided with a frusto-conical recess and having a polygonal recess communicating with the converging end of said frusto-conical recess, of a circular head provided with a central opening and having a plurality of transverse openings therein communicating with said central opening, a plurality of tool holding arms formed integrally upon diametrically opposite sides of said head, provided with longitudinal openings therethrough communicating with the transverse openings in said head and having transverse threaded openings therein communicating with said longitudinal openings, a frusto-conical projection formed integrally on said head and engaging said frusto-conical recess, a polygonal projection formed integrally with said frusto-conical projection and engaging said polygonal recess, a stem formed integrally with said polygonal projection and exteriorly threaded throughout its length, a knurled lock nut engaging said threaded stem, a washer disposed on said stem between said nut and polygonal projection and engaging said standard, and set screws engaging the threaded openings in said tool holding arms.

1,392,129. OVEN AND WARMING-CLOSET. ANNIE E. ENGLAND, Calvert, Md. Filed Dec. 8, 1920. Serial No. 429,122. 6 Claims. (Cl. 126—275.)



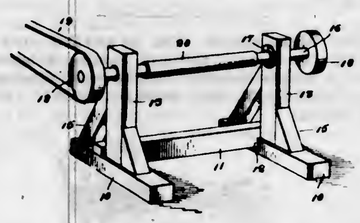
1. A convertible oven and warming closet having interior shelves and a door for giving access to the interior, and having one of its sides cut away near the bottom to form an opening, and interchangeable members for closing said opening, one of said members consisting of an interiorly accessible box for partitioning the interior of the casing.

1,392,130. VISE. OTTO L. ENGSTROM and HERMAN C. NELSON, South Bend, Ind. Filed May 23, 1921. Serial No. 471,742. 6 Claims. (Cl. 81—41.)



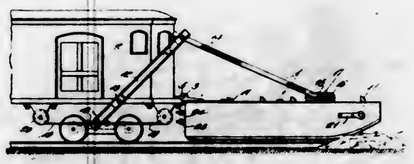
1. In an apparatus of the class described, a foundation member having a longitudinal guide slot, a base member rotative on the foundation member, means for clamping the base member in adjusted position on the foundation member, perforated lugs rising from the base member, a cylindrical member disposed for rotation between the spaced lugs, means for clamping the cylindrical member between the lugs, a cheek member rising from the cylindrical member, a vise device including a stationary jaw and a movable jaw, a cheek member depending from the stationary vise jaw and bearing against the cheek member of the cylindrical member, and means for clamping the cheek members in adjusted position.

1,392,131. POWER-TRANSMITTING APPARATUS. LEON ESSNER, Benton, Mo. Filed Apr. 17, 1920. Serial No. 374,737. 1 Claim. (Cl. 74—106.)



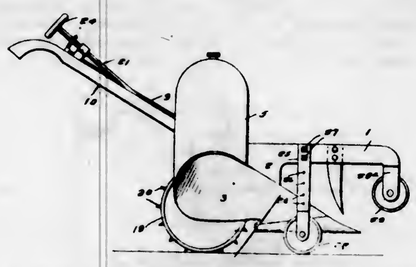
A power transmitting apparatus for motor operated vehicles, comprising spaced parallel members constituting a base, a transverse member connecting the parallel members and forming part of said base, standards rising from each of the parallel members, reinforcing elements arranged at the opposite sides of each standard and connecting the latter with the base, a shaft journaled between said standards, pulleys carried by the shaft beyond said standards, a sleeve of relatively soft material fitted on said shaft and substantially co-extensive in length with that portion of the shaft positioned between said standards, said sleeve being arranged in contacting cogagement with the rear portion of one of the drive wheels of the vehicle when said wheel is spaced from the ground.

1,392,132. SNOWPLOW. WILLIAM A. EVERITT, Portland, Oreg. Filed Sept. 16, 1920. Serial No. 410,661. 6 Claims. (Cl. 37—60.)



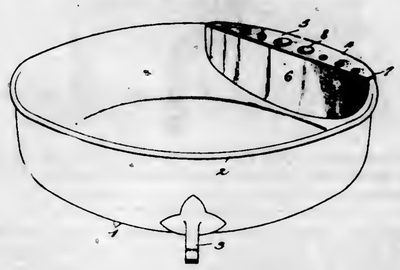
1. A snow plow adapted for hinged connection with a car for vertical swinging movement, beams adapted to be connected with a car for vertical swinging movement, arms loosely connected with the beams and pivotally and slidably connected with the plow adjacent the forward end thereof and means for swinging the beams to raise and lower the plow.

1,392,133. PLOW. JENNIE FAIRFIELD, Detroit, Mich. Filed May 16, 1919. Serial No. 297,473. 1 Claim. (Cl. 180—19.)



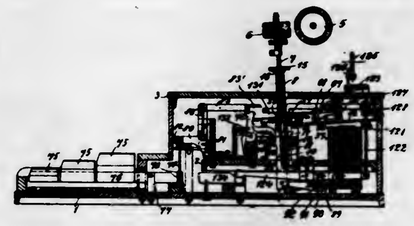
A tractor having a motor, a shaft, a rotatable member journaled on the shaft driven from the motor, a second shaft, a sprocket chain passing over said rotatable member, a sprocket wheel on the second shaft over which the chain passes, a frame, supporting means on the frame for the motor, a supporting wheel structure adjustable from the frame, a bearing on the frame for the first shaft, arms rigid with the first shaft journaling the second shaft, a traction means on the second shaft, a worm wheel on the first shaft, and an adjusting rod having a worm in mesh with the worm wheel.

1,392,134. NUT-BOWL. LOUIS FARBER and HARRY FARBER, New York, N. Y. Filed June 25, 1920. Serial No. 391,706. 1 Claim. (Cl. 65—15.)



A device of the class described comprising an instrument receiving portion having a curvilinear edge rolled to grasp the beaded edge of a curved dish and an apron portion bent at an acute angle and having a curvilinear lower edge to be seated against the curved inner surface of said dish so as to set up a binding action against removal of the device from the dish.

1,392,135. TYPEWRITING-MACHINE. OSKAR FISCHER, Berlin-Wilmersdorf, Germany. Filed Mar. 19, 1914. Serial No. 825,776. 35 Claims. (Cl. 197—12.)



1. In a typewriting machine, the combination with the platen, and a rotatable type carrier having circumferentially arranged types, of means for turning the type carrier with one of the types in printing position, means for throwing the type carrier toward the platen, means for operating the turning means, means controlled by said turning means for operating the throwing means, means for simultaneously throwing said turning and throwing means out of operation, and means to return the type carrier into initial position.

1,392,136. ELECTRIC LUG. EDWIN VERNE FOAD, Galena, Kans. Filed Jan. 23, 1920. Serial No. 353,555. 1 Claim. (Cl. 287—82.)

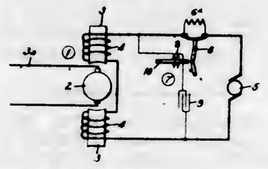
A connecting device comprising a hollow member having an opening in one end thereof, a pair of separate complementary gripping members located within the hollow member and each having a longitudinally extending groove in its opposed face for the reception of the end of a wire.

a spring connecting the members at one end and tapered extremities provided at the opposite end of said members



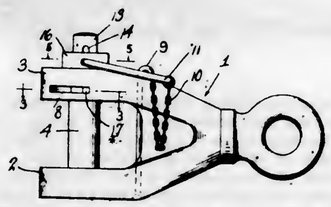
for engagement with the walls of the opening in the hollow member to force the complementary members to grip the wire.

1,392,137. CIRCUIT-INTERRUPTER. CHARLES LEG. FORTESCUE, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Oct. 6, 1916. Serial No. 124,054. 11 Claims. (Cl. 175—294.)



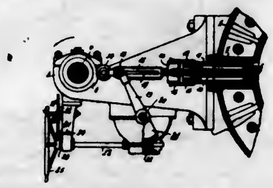
6. The combination with a dynamo-electric machine, of actuating means for a circuit interrupter electrically connected to the field-magnet winding only and adapted to be traversed by current only when a disturbance occurs on the armature of the machine.

1,392,138. CLEVIS. WILLIAM R. FREEMAN and JAMES M. FREEMAN, Washoe, Mont. Filed Feb. 7, 1921. Serial No. 443,269. 2 Claims. (Cl. 97—4.)



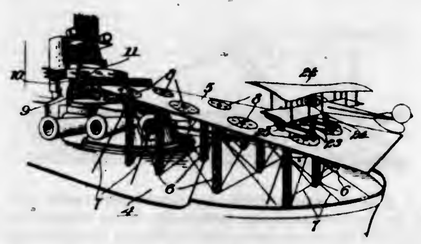
2. In combination with a clevis or coupling having spaced open jaws provided with alining round openings, the upper jaw having a square depression forming a pocket that surrounds the opening therein and the lower wall of the pocket having a notch and the side wall of the jaw having a slot communicating with the notch, a coupling pin movable through the openings in the jaws, a lug thereon designed to be received in the notch and to enter the slot, when the pin is turned on the clevis or coupling, said pin having a square extension provided with a key hole slot, a block slidable on said extension and designed to be received in the pocket, and a ring member having a bit portion passing transversely through the block and through the key hole slot in the pin and designed, when the block is in the pocket to be turned to bring the bit thereof transversely in the widened passage of the key hole slot in a position to bridge the restricted passage of the said slot.

1,392,139. MECHANISM FOR STARTING GAS-ENGINES. TOUSSAINT GENDARME, Séraing, Belgium, assignor to Societe Anonyme, John Cockerill, Seraing, Belgium. Filed Oct. 27, 1919. Serial No. 333,694. 3 Claims. (Cl. 60—16.)



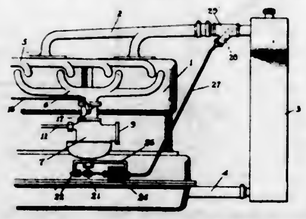
1. In a mechanism of the kind described in combination with the starting valves of a gas engine and with their actuating cams, a lever pivoted to the rod of each starting cam, a hand wheel and actuating means between said hand-wheel and lever whereby this lever can be maintained in the position in which it is acted upon by its cam or can be disengaged from said cam or be pushed so as to open the starting valve.

1,392,140. APPARATUS FOR LANDING FLYING-MACHINES. HUGO GERNSBACK, New York, N. Y. Filed May 20, 1918. Serial No. 235,675. 2 Claims. (Cl. 244—2.)



1. Landing apparatus having a platform of glass provided with a recess, an electromagnet disposed in said recess with its upper surface flush with the upper surface of the platform, means to support the platform, means to energize said electro-magnets including wires, and means embedded in the platform through which the wires pass to the magnets.

1,392,141. CARBURETER. JEAN V. GIESLER, Knoxville, Tenn., assignor to The Fulton Company, Knoxville, Tenn., a Corporation of Maine. Filed Sept. 25, 1916. Serial No. 122,122. 29 Claims. (Cl. 123—122.)



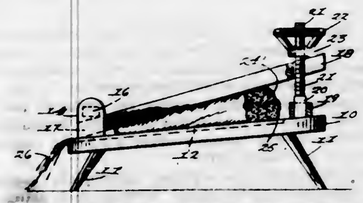
1. In an internal-combustion engine, in combination with a carbureter comprising a fuel-regulating valve and an air inlet coöperating therewith, means to vary the proportion of fuel to air delivered by said carbureter, means for circulating a cooling medium in operative relation to the engine, and means automatically and solely controlled by the temperature of said cooling medium at substantially the temperature at which it leaves said engine for controlling said proportion-varying means.

1,392,142. SPORTING-SHOE. DANIEL J. GOLDEN, Brockton, Mass. Filed June 14, 1921. Serial No. 477,379. 1 Claim. (Cl. 36—17.)



A shoe of the character stated, comprising an inner sole, an upper, a welt, a flexible casing strip, said parts being united by inseam stitches, a middle sole united to the welt, and an elastic outer sole cemented to the outer face of the middle sole and to a portion of the confining strip, said strip being wider than the welt, and its outer edge portion being formed and arranged to cover the margins of the middle and outer soles.

1,392,143. CHEESE-PRESS. JOHN GORA, Johnsonburg, Pa. Filed Oct. 12, 1920. Serial No. 416,502. 1 Claim. (Cl. 100—55.)



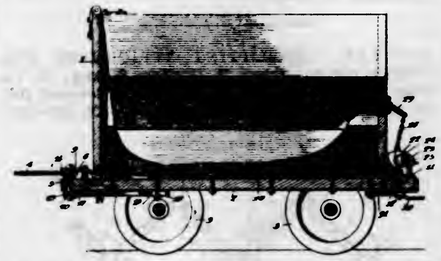
A cheese press of the character described comprising two presser boards, a reduced tail end on the upper board, the lower board provided with a groove in its upper face for the removal of the liquid, four legs secured to said lower board, two guide pieces on the lower board connected by a cross-piece near their upper ends providing a means for removably holding the tail piece of the upper board under the cross-piece, a screw-socket on the opposite end of the lower board, a screw bolt resting with its lower end in said socket, and a hand wheel upon the upper end of said screw bolt above the upper board resting with a collar against the upper face of said upper board, substantially as described and for the purpose set forth.

1,392,144. PORTABLE CAMERA-SUPPORT. SAMUEL R. GRAY, Germantown, Pa. Filed June 2, 1921. Serial No. 474,354. 4 Claims. (Cl. 248—43.)
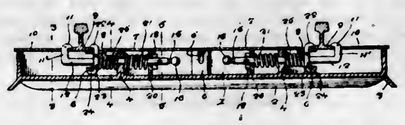


1. In a portable camera support the combination with a guide block, of legs pivotally connected thereto, engaging means on the legs, and a rigid plate adapted for direct removable connection with said engaging means for forming a rigid and inflexible support.

1,392,145. AUTOMATIC COUPLING FOR MINE-CARS. GEORGE T. GREGORY, New Kensington, and HENRY W. BURKET, Arnold, Pa. Filed May 16, 1919. Serial No. 297,519. 4 Claims. (Cl. 213—50.)



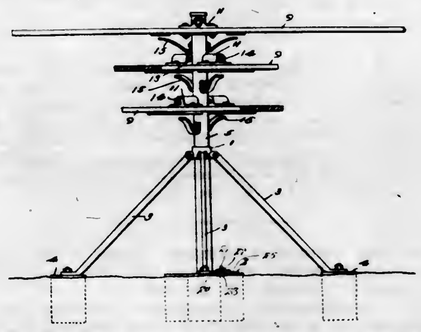
1. A car coupling comprising a coupling pin and link, the link having a collar formed with a seat and the pin formed with a key to fit in the seat to connect one to the other to be rotatable together and non-rotatable one relatively to the other, and means coöperating with the pin for normally holding the link in a forwardly projected position.

1,392,146. TIE. ROSCOE M. GRIZZLE and AARON H. THACKER, Terre Haute, Ind. Filed Mar. 30, 1921. Serial No. 457,004. 7 Claims. (Cl. 238—76.)



1. In a device for the purpose set forth, a metallic tie and rails resting thereon, clamps carried by the tie for holding the rails on said tie, said clamps including respectively a longitudinally disposed member having a hooked end for engaging the outer flange of the rail, and a swinging member having a hooked end for engaging the inner edge of the rail, and independent spring means influencing each member for holding the same in rail engaging position.

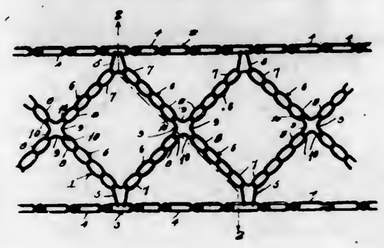
1,392,147. COMBINED TEETER AND ROUNDABOUT. EDMUND DAVIS GROVE, Oakland, Calif. Filed May 17, 1920, Serial No. 382,108. Renewed May 19, 1921. Serial No. 470,951. 3 Claims. (Cl. 46—27.)



2. In a combined teeter and roundabout, the combination of an upright revolvible post, means supporting the

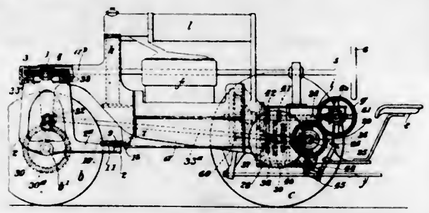
same, a teeter fulcrumed on and extending in opposite directions from the post, a bolt movable rectilinearly into and out of engagement with the post and having an upturned outer arm terminating in an eye, and a hinge including a fixed member and a vertically swinging member having claws adapted to rest at opposite sides of the bolt arm below the eye thereon, whereby when a lock is secured in the eye the post and the parts carried thereby will be locked against rotation.

1,392,148. ANTISLIPPING ATTACHMENT FOR WHEEL-TIRES. BERTA B. GUNNOE, Beckley, W. Va. Filed Jan. 8, 1918, Serial No. 210,932. Renewed Dec. 23, 1920. Serial No. 432,862. 1 Claim. (Cl. 152—14.)



A tire chain comprising cruciform central links each having its arms arranged diagonally with relation to the tire and angularly with relation to the plane of the link, side chains, and diagonally arranged cross chains connected to the arms of the central links and to the side chains, the angular arrangement of the arms of the central links serving to present a maximum of tread surface of the central and adjacent links whereby lateral and circumferential skidding is prevented.

1,392,149. MOTOR-TRACTOR FOR AGRICULTURAL WORK. WILLIAM GUTHRIE, Motherwell, Scotland, assignor of one-half to Duncan McNaughton Wallace, Glasgow, Scotland. Filed Apr. 7, 1920. Serial No. 371,875. 12 Claims. (Cl. 180—18.)



1. A tractor for agricultural and other work having two rear driving wheels and a combined driving and steering wheel intermediately disposed in front of the two rear wheels, means whereby all three wheels are positively driven in conjunction when the tractor is traveling straight forward and means whereby the front wheel and one of the rear wheels work together when the tractor is turning while the other back wheel runs free.

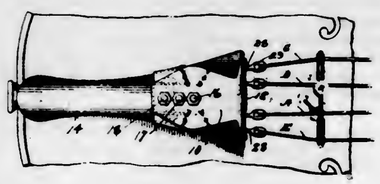
1,392,150. SHOCK-ABSORBER. PETER F. HALFERTY, Aberdeen, Wash. Filed June 10, 1920. Serial No. 387,917. 2 Claims. (Cl. 267—8.)

1. A shock absorber, comprising a cylindrical casing, rods movable in the ends of the casing, elastic pistons on the rods, nuts on the rods at opposite sides of the pistons adapted when moved toward and away from each other to adjust the diameter of the pistons, said pistons snugly fitting the casing, coiled springs on the rods between the



ends of the casing and said pistons, and an outwardly opening manually operated valve controlling a port in the intermediate portion of the casing between the pistons.

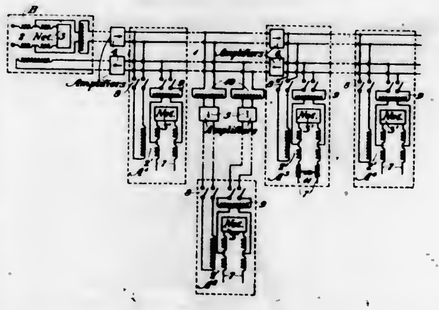
1,392,151. TONE-INDICATING DEVICE FOR VIOLINS. WILLIAM F. HAMES, Providence, R. I. Filed Oct. 4, 1920. Serial No. 414,595. 10 Claims. (Cl. 84—297.)



3. A tone-indicator attachment for stringed instruments comprising a frame supported on the tail-piece of an instrument, a set of spring arms carried by said frame and to which the strings of the instrument are to be connected, means for readily securing the frame to the tail-piece, and means on said frame for visibly indicating by the position of each spring member when the tension of its string is at concert pitch.

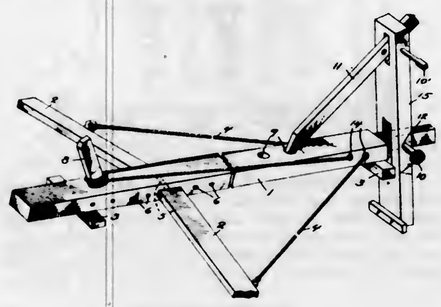
9. A tone-indicator for stringed instruments comprising upper and lower plates, posts between said plates and maintained in position thereby, spring arms extending laterally from said posts to each of which a string of said instrument may be connected, setting points on the top plate, and means on the arms to coöperate with the setting points.

1,392,152. MULTIPLE-STATION TRANSMISSION-CIRCUITS. WILLIAM H. HARDEN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Dec. 13, 1918. Serial No. 266,636. 8 Claims. (Cl. 178—44.)



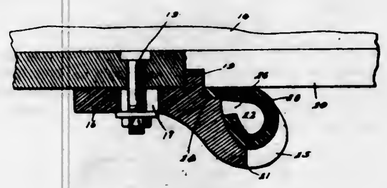
1. In combination, a circuit comprising a section having separate lines for transmitting signals in opposite directions respectively, a plurality of stations some of which are bridged across said section of the circuit at various points and means associated with the circuit for substantially equalizing the transmission from a selected one of said stations to each of the others.

1,392,153. ROOFING-SCAFFOLD. SAM HAWKINS, Centralia, Ill. Filed Apr. 8, 1920. Serial No. 372,416. 2 Claims. (Cl. 304—23.)



1. A roofing scaffold comprising a main timber, adapted to extend from the ridge to a point adjacent the eaves ridge-engaging means carried by the upper end of the timber, footpieces each having one terminal provided with a spike, the main timber being provided on its lateral faces with spaced apertures adapted to selectively receive said spikes, whereby said foot-pieces may be removably secured to said timber in adjusted position, and flexible means connecting the outer ends of said foot-pieces with said timber.

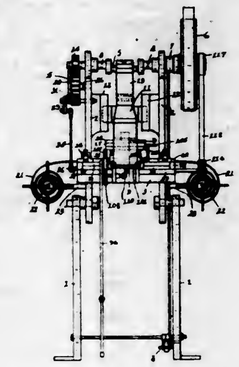
1,392,154. PICKER-STICK-CUSHIONING MEANS. THOMAS PARKINSON HAYDOCK, New Bedford, Mass. Filed June 8, 1921. Serial No. 475,982. 4 Claims. (Cl. 139—22.)



3. Picker stick cushioning means comprising a body in which is a pocket open at its upper side to confine a cushion against an opposed loom portion, the end of said pocket being bifurcated to enable a picker stick to act against the cushion, and the inner and upper portion of the pocket being shouldered.

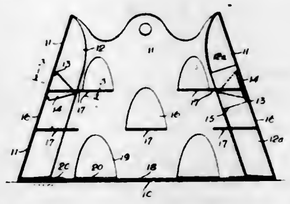
1,392,155. APPARATUS FOR FITTING INSERTS IN SEPARATORS. CLARENCE W. HAZELETT, Lakewood, and FRANCIS A. HOLT, Cleveland, Ohio, assignors to National Carbon Company, Inc., a Corporation of New York. Filed Oct. 29, 1918. Serial No. 260,091. 25 Claims. (Cl. 144—196.)

1. In apparatus of the kind described, the combination of a die, strip feeding mechanism adapted to deliver a strip thereto, a support for a blank to be operated upon, a reciprocating punch and means coöperating therewith adapted to relatively adjust the support and



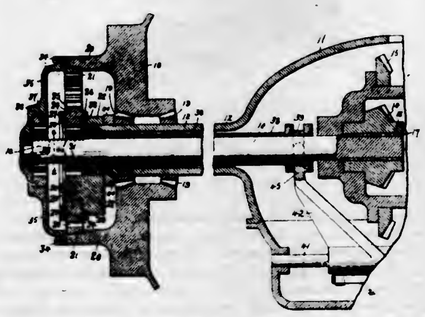
punch on alternate cutting strokes for the purpose set forth.

1,392,156. SANITARY FLYTRAP. ALFRED B. HELLER, Hamburg, Pa. Filed Apr. 8, 1921. Serial No. 459,620. 2 Claims. (Cl. 43—115.)



1. A fly trap having a bottom and sides of sheet material, said sides being foldable into the plane of the bottom or set-up to give the trap a box-like form, said sides being formed with flanges along their side edges and bent to extend laterally inward at the interior of the trap at the corners and with adjacent flanges lying against each other, certain of said flanges having portions in the form of locking tongues and the adjacent flanges having slots through which said tongues may extend.

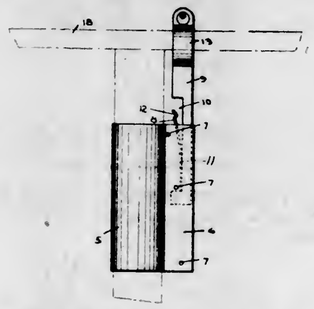
1,392,157. CHANGE-SPEED GEARING. LEO HERMAN and FRANK J. KARG, Akron, Ohio. Filed Nov. 26, 1920. Serial No. 426,640. 1 Claim. (Cl. 74—34.)



A device of the class described comprising a shaft mounted for rotation, an outer sleeve inclosing the

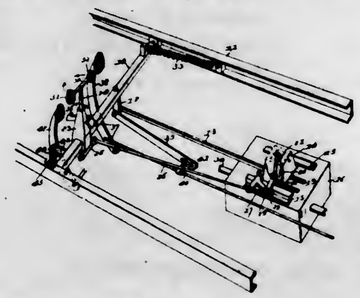
shaft, a member rotative on the outer sleeve, an outer ring gear carried by the rotative member, a pinion slidable on the shaft, an inner sleeve connected to the pinion, a holding element carried by the outer sleeve, an inner ring gear rotative on the holding element and having outer teeth engaging the outer ring gear and inner teeth engaging the pinion when the same is in inner position, a clutch element carried by the rotative member and engaged by the pinion when the pinion is in outer position, and means for shifting the inner sleeve to change the position of the pinion.

1,392,158. AUTOMOBILE-LOCK. EMIL WILLIAM HESSEL, Granite City, Ill. Filed June 30, 1920. Serial No. 393,024. 1 Claim. (Cl. 70—129.)



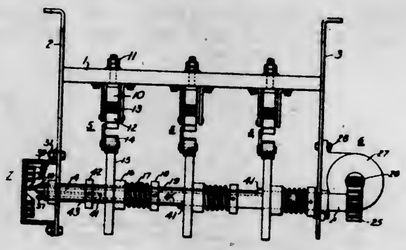
In combination with a steering column, and the steering wheel supported at one end thereof, a locking device including a tubular body portion having flanges, means extending through the flanges for securing the flanges together to provide a housing, a locking arm disposed within the housing and having a cut out portion providing a pocket, a leaf spring disposed within the pocket and having one extremity thereof extending toward the tubular portion of the locking device, said extended portion of the spring having an offset portion, designed to engage the flange securing means, and locking means disposed at one end of the locking arm for locking the wheel against rotation.

1,392,159. GEAR-SHIFTER. ERNEST C. HICKS, Waynesville, Mo. Filed Nov. 13, 1920. Serial No. 423,781. 6 Claims. (Cl. 74—58.)



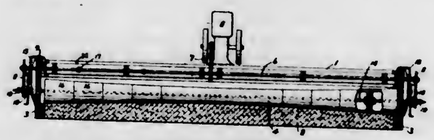
1. A gear shifting mechanism for motor driven vehicles having a pedal actuated rocker, a slide operatively connected with the rocker, a selector movable transversely to the path of the slide for respective engagement with the gear shifting yokes, and a selector actuating spindle movable in opposite directions from a neutral position and axially arranged in radial relation with the rocker, said spindle having a cross arm carrying opposite pedal plates.

1,392,160. CONTROL APPARATUS. OLIVER P. HIPPLE, Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 6, 1917. Serial No. 178,909. 9 Claims. (Cl. 200—17.)



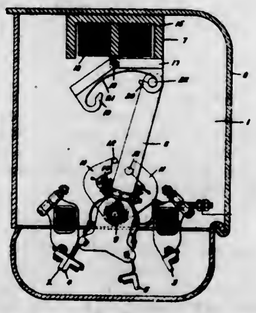
1. Control apparatus comprising a plurality of sets of stationary and movable contact members, means for actuating said movable contact members in a certain direction, and means for selectively effecting disengagement of said contact members by moving said actuating means in a direction transverse to said certain direction.

1,392,161. FINISHING-MACHINE FOR ROADS AND THE LIKE. HAROLD E. HILTS, Philadelphia, Pa. Filed Feb. 9, 1921. Serial No. 443,539. 8 Claims. (Cl. 94—45.)



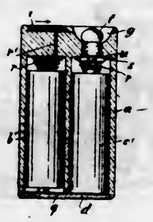
1. A finishing machine for roads comprising the combination of side-forms, a carriage movable on the side-forms, a roller tapering toward its center and carried by the carriage, means for rotating the roller in a direction opposite to the movement of the carriage, and mechanism for, at the same time, imparting a transverse motion to the roller.

1,392,162. CIRCUIT-INTERRUPTER. CHARLES H. HODGKINS, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Mar. 14, 1918. Serial No. 222,474. 9 Claims. (Cl. 200—94.)



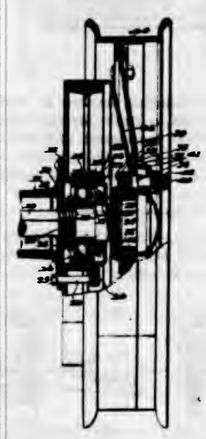
3. In a double-throw switch, the combination with an operating lever, of a single electromagnet, and a double-throw armature therefor having means coöperating with the lever by which the armature is moved toward its coöperating positions with respect to the magnet.

1,392,163. ELECTRIC POCKET-LAMP. OSCAR HOFFMANN, Stuttgart, Germany. Filed Jan. 11, 1921. Serial No. 436,629. 5 Claims. (Cl. 240—8.5.)



1. In an electric pocket lamp, a casing, cell compartments, contacts adapted to engage with the terminals of electric cells located in said compartments, sliding lid for closing the said compartments, a spring permanently fixed at the end of each said compartment, a lamp engaging spring contact member electrically connected with one of the springs, a sliding circuit closer electrically connected with the other of the said springs, the said springs being arranged to exert pressure upon cells located in the compartments whereby the latter are actuated to hold the said lid in closed position, and an electrically connected member in the lid for interconnecting the said cells, said lid and circuit closer being arranged substantially flush with the outer surface of the casing.

1,392,164. VEHICLE-WHEEL. ORMOND E. HUNT, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a Corporation of Michigan. Filed Nov. 14, 1919. Serial No. 337,954. 6 Claims. (Cl. 301—6.)



1. In combination, an axle, a brake drum, means for securing said brake drum to said axle, a wheel, and means for securing said wheel to said axle in such a manner that the wheel may be demounted from the axle without demounting the brake drum.

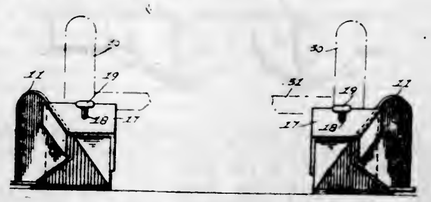
1,392,165. FLASHLIGHT. ROBERT L. HUNTER, Norfolk, Va. Filed Feb. 18, 1921. Serial No. 445,922. 2 Claims. (Cl. 245—8.5.)

2. Means for changing the focus of the light of a flashlight, comprising a flashlight case, a cap for said case, means adapted to permit said cap to travel on the said case, and means attached to said case and coöperating with said cap to stop automatically the outward



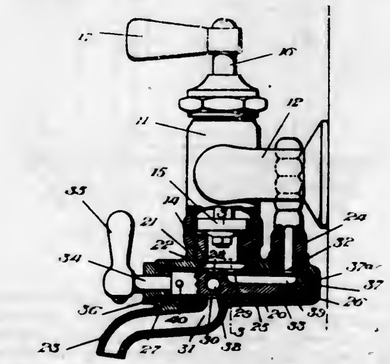
travel of said cap, said means being further adapted to be manually operated to be moved to a non stop position to allow separation of said cap from said case.

1,392,166. ROAD-CLEARER. SZCZEPAN IMMER, New York, N. Y. Filed July 31, 1920. Serial No. 400,405. 3 Claims. (Cl. 37—57.)



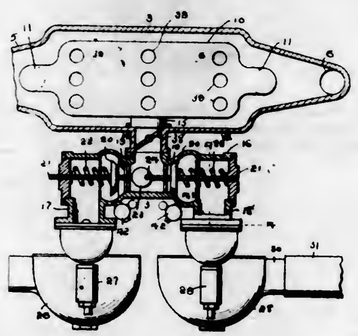
1. A device of the character described comprising a plow adapted to be secured to the front part of a vehicle, a triangular bottom plate having its rear end spaced from the plow bottom, a screw-bolt and hand wheel for regulating the distance between said plate and the ground, and means for securing said device to the vehicle.

1,392,167. DUPLEX FAUCET. JACOB T. JOHNSON, Atlanta, Ga. Filed Dec. 27, 1920. Serial No. 433,320. 4 Claims. (Cl. 251—109.)



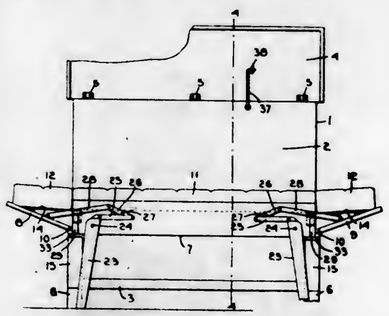
1. A duplex faucet comprising a horizontal body to be disposed below another faucet and having an upper inlet portion between its ends attachable to such other faucet, the body having a delivery spout leading downwardly from between its ends and a nipple extending upwardly from the body at a point spaced longitudinally from said inlet portion and spout to be disposed behind said other faucet, and a longitudinal valve in said body having an operating handle beyond the forward end of the body and having a passage to establish communication between said inlet portion and spout and a longitudinal channel to establish communication between said inlet portion and nipple, said passage and channel being arranged for the alternate flow from the inlet portion into said spout and nipple.

1,392,168. EXPLOSIVE-ENGINE MANIFOLD. LESTER E. JOHNSON, Coffeyville, Kans., assignor to John Higbee Johnson, Coffeyville, Kans. Filed Dec. 2, 1916. Serial No. 134,697. 1 Claim. (Cl. 123—122.)



In an explosive engine, an exhaust manifold having inlet and outlet ports, an inlet manifold arranged within the exhaust manifold and having pairs of openings in the front and rear walls thereof, fire tubes connecting said openings, and enlargements formed on the intake manifold and arranged opposite to some of the exhaust ports of the exhaust manifold to deflect the exhaust of the engine toward the fire tubes.

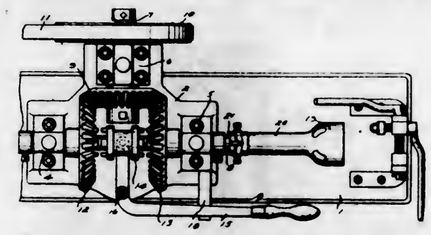
1,392,169. FOLDING BED. JOSEPH JOHNSYN, Dorchester, Mass. Filed Jan. 27, 1921. Serial No. 440,425. 5 Claims. (Cl. 5—18.)



1. In a folding bed, in combination, a cabinet element and a bed bottom element hinged thereto to fold about an axis extending longitudinally of the bed, said bed bottom element comprising a central section and two end sections hinged thereto, said central section forming the front of the cabinet and the end sections forming the ends of the cabinet when the bed is folded.

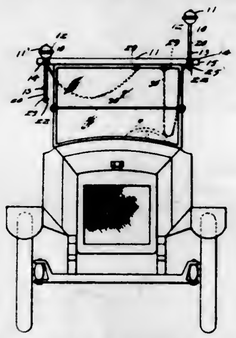
1,392,170. THREAD CUTTING AND TAPPING MACHINE. ELI JONES, Luverne, Minn. Filed Mar. 11, 1920. Serial No. 364,998. 3 Claims. (Cl. 10—137.)

3. A machine of the character stated, comprising a support, a horizontal shaft on the support, means for turning the shaft in either direction, a chuck on the shaft, a pair of brackets on the shaft, a transversely positioned rod connecting the brackets, a pair of transversely movable vise members mounted on the rod, a second rod having right and left hand screw threads engaging the respective vise members, a third vise member movable longitudinally of the support, a spring exerting pressure



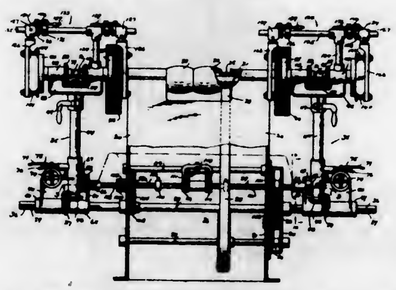
on the last-mentioned vise member tending to move it in one direction, and a screw engaging the last-mentioned vise member adapted to move it in the opposite direction.

1,392,171. DIRECTION-INDICATOR FOR VEHICLES. WILSON E. JURY, Freeport, Ill. Filed Apr. 16, 1921. Serial No. 461,790. 2 Claims. (Cl. 116—50.)



1. A direction indicator having a signaling element provided with a stem, a guide for directing the stem for substantially vertical movement and an operating cord connected with said stem, the guiding means for the stem consisting of a clip adapted for attachment to a vehicle top bow.

1,392,172. BUFFING-MACHINE. JOSEPH KELLER, Buffalo, N. Y. Filed May 24, 1919. Serial No. 299,585. 21 Claims. (Cl. 51—91.)



1. A buffing machine, comprising a spindle, a buffing wheel carried by the spindle, a plurality of work-piece chucks, releasing means for the chucks, means, controlled by the releasing means, for alternately placing the chucks, one at a time, into working position, means for rotating the chucks, and means for reciprocating the chucks.

1,392,173. COMPOSITE MOLDING. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed July 25, 1918. Serial No. 246,763. 7 Claims. (Cl. 64—19.)



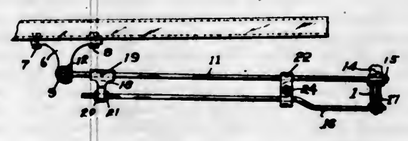
1. A composite molded article comprising a body portion composed of insulating material impregnated with a hardened binder and an insert of similar material containing a lubricant.

1,392,174. COMPOSITE MOLDING. WILLARD H. KEMPTON, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Original application filed July 25, 1918, Serial No. 246,763. Divided and this application filed Apr. 4, 1919, Serial No. 287,580. Renewed Apr. 7, 1921. Serial No. 459,309. 8 Claims. (Cl. 18—59.)



4. A method of molding composite articles that comprises separately disposing substantially tubular bodies of different moldable compositions in a substantially annular mold chamber, with one body surrounding another, and applying axial pressure against the bodies, together with heat, to compact and cure the compositions, whereby a unitary composite article is formed.

1,392,175. FRONT-AXLE RADIUS-ROD. GEORGE S. KING, South Berkeley, Calif. Filed Jan. 12, 1920. Serial No. 350,911. 2 Claims. (Cl. 267—66.)



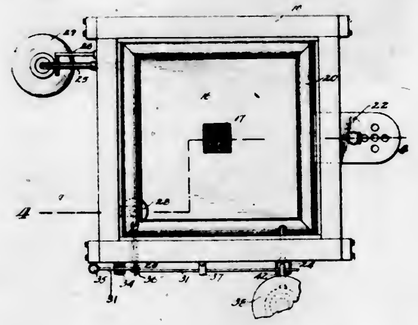
1. A radius rod for the front axles of vehicles comprising a long rod having a ball at one end, a shorter rod having one end threaded, clamps for connecting the two rods at their middle portion, a depending bracket secured to the longer rod adjacent the ball and to which the threaded end of the shorter rod is adjustably connected and a depending bracket adapted to be connected to the frame of a vehicle to which the longer rod is connected by means of said ball, both of said rods being adapted to be connected at their other ends to the vehicle axle.

1,392,176. DUPLEX LAMP-SOCKET. WILLIAM J. KOENIG, Brooklyn, N. Y.; Annie Allen, administratrix of said William J. Koenig, deceased, assignor to Ralph J. De Ross, Brooklyn, N. Y. Filed Jan. 20, 1920. Serial No. 352,887. 2 Claims. (Cl. 173—344.)



1. The herein described lamp socket comprising a shell, an abutment member fixed in the shell and having a guide hole therethrough, a floating contact carrier within the shell spaced from the abutment but movable toward the abutment on the introduction of a lamp, resilient means between the abutment and the carrier normally supporting the carrier spaced from the abutment, and a contact member carried by the carrier and projecting through the hole in the abutment, the said contact member being composed of a flat piece of metal of uniform width and bent upon itself near its center to form a loop, and which after the ends are passed through the carrier are bent apart upon the contact surface of the carrier.

1,392,177. INCUBATOR. JOE KOVAR, Coupland, Tex. Filed Oct. 25, 1920. Serial No. 419,359. 2 Claims. (Cl. 236—4.)

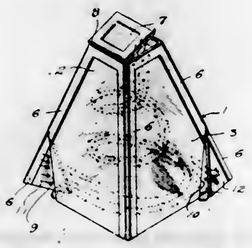


2. In a heating system, a liquid conduit, means for heating the liquid of the conduit, an intake trough communicating with the conduit, a cold water receptacle having a flexible tube extending above said trough, a thermostat, a pivoted lever operated by the thermostat, an adjustable support, a second lever pivoted intermediate of its ends in the said support and with which the free end of the first lever has a loose connection adjacent its pivot, one end of the second lever having a weight thereon and its other end extending below and in engagement with the pipe of the receptacle, and means for limiting the upward movement of said second lever.

1,392,178. COLLAPSIBLE AND VENTILATING BELL OR FORCING-GLASS. OTTO C. KUEBLER, Yonkers, N. Y. Filed Apr. 16, 1919. Serial No. 290,377. 1 Claim. (Cl. 47—22.)

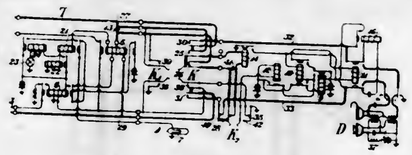
A plant forcing device comprising a body consisting of pairs of side walls hinged together and forming an open-

ing at their upper ends, a hinge cover for said opening, some of said walls having openings at their lower ends and located opposite to each other, and hinged doors for the last named openings, and one of said doors adapted to



open inwardly of the side walls and the other door open outwardly thereof, said doors when in an open position adapted to cause an air current to pass through the device and outwardly of the first opening in a spiral path.

1,392,179. OPERATOR'S TRUNK-CIRCUIT. GEORGE W. KUHN, Brooklyn, N. Y., assignor to American Telephone and Telegraph Company, a Corporation of New York. Filed Sept. 5, 1918. Serial No. 252,765. 14 Claims. (Cl. 179—41.)

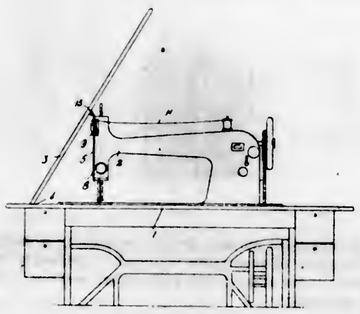


5. In a signaling system, a subscriber's station, a common battery link circuit for establishing connections from said subscriber's station, a trunk for extending connections from said subscriber's station through said link circuit to another station, a bridge across said trunk including an inductance and a condenser, and single switching means for connecting said trunk to said other station and for shunting a winding about said condenser.

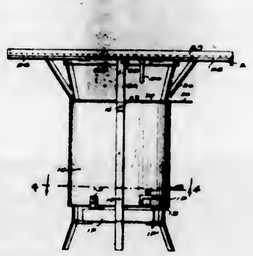
12. In a signaling system, a trunk leading to a special operator's desk, an operator's telephone apparatus at said position, switching means associated with said trunk for connecting said operator's telephone apparatus thereto, a signal responsive relay associated with said trunk, a signal controlled by said relay and responsive to the actuation of said relay by signaling current, and a second relay associated with said trunk responsive to the actuation of said switching means to alter the responsive condition of said signal, and a plurality of terminals and connections for said relays and switching means whereby the trunk may be adapted for either common battery signal or ring-down signaling by a simple change in wiring.

1,392,180. SEWING-MACHINE ATTACHMENT. DOIN KWON, Honolulu, Hawaii. Filed Sept. 14, 1920. Serial No. 410,297. 2 Claims. (Cl. 112—218.)

1. A buffer plate of the character described, adapted to be used with a hinged extension board or leaf of a sewing machine, said plate having screw receiving openings therein, whereby said plate is secured to the outer face of the sewing machine head, said plate having a slot therein and a thread guiding notch therein, and an upwardly and outwardly projecting cushion tongue on the plate to receive the hinged extension board thereagainst and prevent contact of the board with the head of the machine.



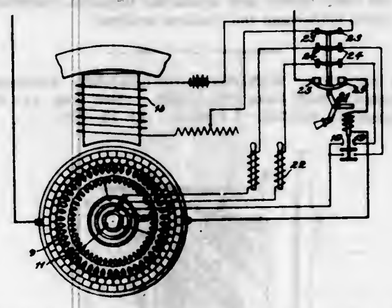
1,392,181. PLASTIC-MATERIAL FURNACE. CHARLES G. LACY, deceased, Alliance, Ohio; by Lydia Lacy, administratrix, Alliance, Ohio. Filed Oct. 7, 1920. Serial No. 415,427. 1 Claim. (Cl. 126—33.)



In apparatus of the character described, an upstanding fire-box shell, upstanding strap-legs secured thereto and extending upwardly and downwardly beyond the same and having their upper ends bent to form substantially triangular open heads embodying horizontal portions, a tray adapted to be arranged upon the horizontal portions of the triangular open heads, straps crossing each other and diagonally arranged upon the lower surface of the tray and rigidly secured thereto for engagement with the triangular heads, said straps having sockets formed therein, and a shifting ring mounted within the sockets and carrying laterally extending bolts adapted to enter the triangular heads for engagement with the horizontal portions thereof.

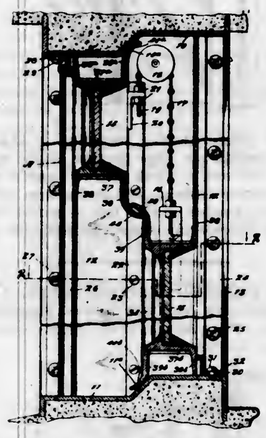
1,392,182. MEANS FOR PREVENTING COMMUTATOR-FLASHING. BENJAMIN G. LAMME, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 17, 1918, Serial No. 240,422. Renewed July 9, 1921. Serial No. 483,610. 11 Claims. (Cl. 171—228.)

1. The combination with a dynamo-electric machine of the commutator type provided with a main armature winding connected to the commutator and an auxiliary armature winding, of means for interconnecting a plurality of points of different poteatial in said auxiliary winding



upon the passage of abnormal current through said main winding.

1,392,183. WINDOW. LOUIS LANE, Habana, Cuba. Filed Sept. 18, 1919. Serial No. 324,522. 15 Claims. (Cl. 189—72.)



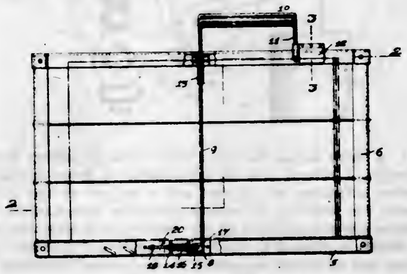
1. A window including a window frame and a sliding sash therein having its frame formed of channel bars, presenting side flanges of unequal width, said window frame having guide means for the narrower flanges of the sash and with which said narrower flanges contact at their outer surfaces, the end edges of said narrow flanges being disposed toward the opposed vertical surface of the frame; and said frame presenting channels receiving the edge portions of the wider flanges of the sash.

1,392,184. CHAIN-HOOK. BERTIE J. LONG, West Brooklyn, Ill. Filed Apr. 26, 1921. Serial No. 464,652. 1 Claim. (Cl. 24—241.)



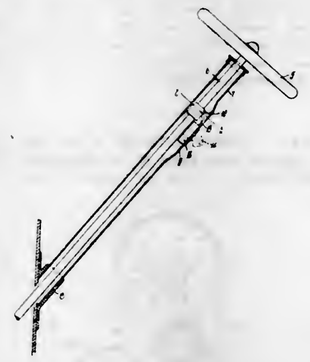
A hook for the purpose described comprising side by side members corresponding in outline and having forward ends that describe an arc of a circle; one of the said members having in its forward portion a curvilinear slot that reaches upwardly from its lower edge and then downwardly and also having an upstanding tongue between said slot portions, and the other member having a slot in its forward portion that reaches downwardly from its upper edge and then upwardly, and also having a comparatively wide pendent tongue between said slot portions, and the forward walls of the forward slot portions being arranged to describe an arc of a circle concentric with the forward ends of the members.

1,392,185. SHEET-TURNER. WILLIAM A. LUCKE, New York, N. Y. Filed Oct. 21, 1920. Serial No. 418,403. 3 Claims. (Cl. 84—493.)



3. A sheet turner, including pairs of spaced bars, cross bars extending between said pairs of bars, shafts rotatably mounted within said cross bars, and having their upper ends extending outwardly beyond the same, a spring for each of said shafts, said spring having one of its ends secured thereto, its body encircling the same, and having its opposite end secured to said cross bars, whereby to effect a turning of said shaft, plungers slidably secured to the second of said cross bars, springs for normally projecting said plungers to permit of their engagement with the stop secured to each of said shafts for preventing a rotation of the same, crank shafts rotatably mounted between one of the pairs of bars, connecting rods extending between said crank shaft and the rear ends of said plungers, said crank shafts being each provided with finger pieces to permit a rotation of the same.

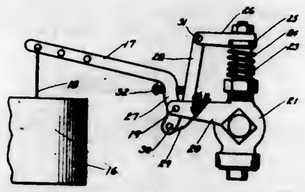
1,392,186. LOCK FOR STEERING-POSTS. JEROME E. LYNCH, Newton Center, and JAMES W. WOODWARD, Brookline, Mass. Filed Apr. 28, 1920. Serial No. 377,246. 3 Claims. (Cl. 70—90.)



2. In combination, a steering post provided with an enlarged portion formed integral therewith, a steering wheel attached to said steering post, a casing surrounding said steering post and a lock attached to said casing upon the

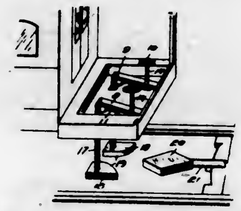
interior thereof and provided with a bolt adapted to be moved by a key into locking engagement with said enlarged portion and thereby to prevent the rotation of said steering post.

1,392,187. OIL-BURNER. GEORGE H. MAHAN, Kansas City, Mo. Filed Feb. 16, 1920. Serial No. 359,065. 3 Claims. (Cl. 158—36.)



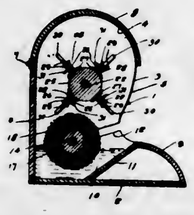
1. A valve casing having a valve stem projecting therethrough, a lateral arm on said casing, a lever having a curved extension at one end and a weight at the other, means for pivoting the curved extension intermediate its ends to the arm, an arm on the valve stem, a link, one end of which is pivoted to the second mentioned arm and the other end of which is pivoted to the curved extension of the lever at one side of the pivotal connection between the lever and the first named arm, and means normally urging the valve to open position.

1,392,188. SWITCH-OPERATOR. OTTO MAKI and KAAL ARLIN, Palmer, Mass. Filed Apr. 7, 1921. Serial No. 459,460. 3 Claims. (Cl. 246—323.)



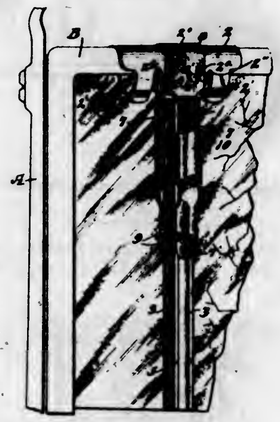
1. A switch operating mechanism comprising a pair of bent levers adapted to be pivotally connected beneath the front platform of a car, each of said levers having a vertical arm extending below the platform and supporting a switch point operating shoe at its terminal, a foot pedal for depressing said shoe to its operative position and resilient means for maintaining said shoes in their raised, normally inoperative position.

1,392,189. COMB CLEANER AND DISINFECTOR. HAYATO MAKIE, New York, N. Y. Filed Sept. 14, 1920. Serial No. 410,347. 6 Claims. (Cl. 15—25.)



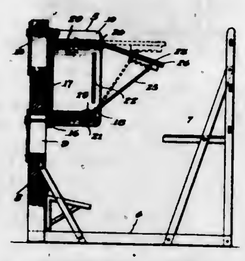
1. A comb cleaner and disinfector comprising a casing, a comb holder rotatably mounted in said casing, a cleaning medium rotatably mounted in said casing and adapted to remove foreign matter from and disinfect combs carried by the comb holder, and means for imparting rotation to the comb holder and the cleaning medium.

1,392,190. WINDSHIELD-CLEANER. BESHARA I. MALOUF, Salt Lake City, Utah. Filed Aug. 11, 1920. Serial No. 402,769. 5 Claims. (Cl. 15—59.)



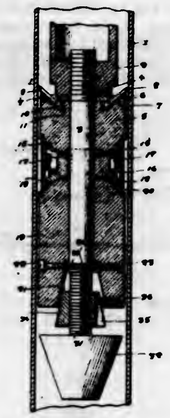
1. A wind shield cleaner including a U-shaped clip adapted to straddle an edge portion of the wind shield and to slide thereon, a wiper element, and a spring arm carrying the wiper element, said spring arm being formed with a looped portion which has a quickly detachable spring acting interlocking connection with the clip.

1,392,191. COMBINED WRITING-DESK AND CABINET. VADAKKATH RAMUNNI MENON, Singapore, Straits Settlements. Filed Apr. 3, 1920. Serial No. 371,055. 1 Claim. (Cl. 45—6.)



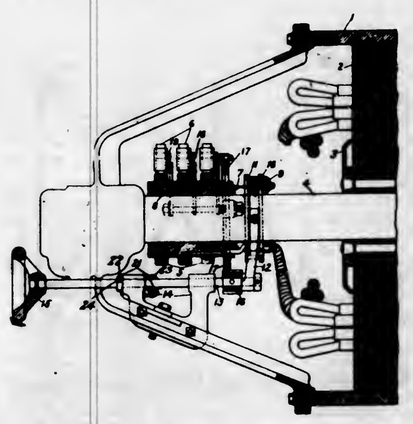
A device of the class described comprising a pair of spaced uprights provided with a plurality of alined slots, rectangular plates secured to said uprights, provided with longitudinal slots in alinement with the slots in said uprights and having a plurality of transverse grooves formed in the outer face thereof, a cabinet, flanges formed on a rear wall of said cabinet and provided with openings, T-shaped bolts extending through said openings and slots aforesaid and provided with serrated inner faces engaging the transverse grooves of said plates, thumb nuts mounted on said bolts and engaging said flanges, a cover hingedly connected to the top wall of said cabinet, a notched plate secured to the inner face of said cover, a hinge pivotally secured to one wall of said cabinet, and a prop secured to said hinge and adapted to engage the notched plate secured to said cover.

1,392,192. PIPE-CUTTER. GEORGE W. MILLER, Mansfield, Mo. Filed June 22, 1920. Serial No. 390,932. 6 Claims. (Cl. 81—194.)



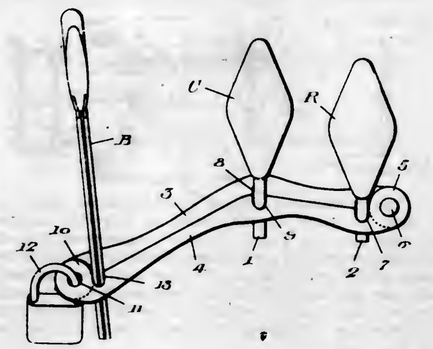
1. In a cutting device for well casings, a body carrying laterally disposed cutters, and a head, means carried by the latter for engaging with the casing to hold the head against turning, latching means for said holding means, releasing means for said holding means, means for revolving the body, means for advancing the cutters to their work with the turning of the body, and means for normally holding the cutters against such advancement.

1,392,193. SHORT-CIRCUITING AND BRUSH-LIFTING DEVICE FOR DYNAMO-ELECTRIC MACHINES. CHESTER B. MILLS, East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Apr. 9, 1918. Serial No. 227,416. 4 Claims. (Cl. 172—120.)



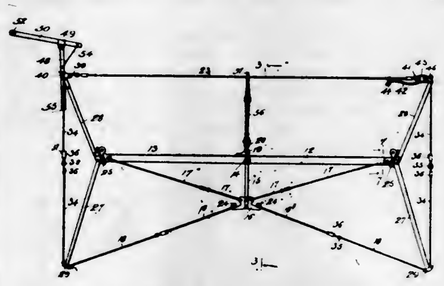
1. In a dynamo-electric machine, the combination with a plurality of collector rings, and current-collecting devices in engagement therewith, each of said devices being provided with a projection, of a semi-annular ring member provided with a cam-shape surface mounted adjacent each of said devices so as to engage said projection, all of said ring members being connected into a unitary structure, and means for rotating said structure.

1,392,194. AUTOMOBILE-LOCK. JAMES FRANKLIN MILLS, Uvalda, Ga. Filed Apr. 17, 1919, Serial No. 290,730. Renewed Apr. 26, 1921. Serial No. 464,537. 1 Claim. (Cl. 70—126.)



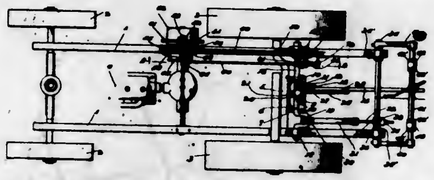
An automobile locking device for retaining a brake, and high speed lever in forward high speed position, a reverse pedal lever in forward reverse position and a clutch pedal lever in rear open position, comprising a pair of arms each being of obtuse angled form, one arm to extend across said levers in front thereof and the other to extend across the levers in rear thereof, said arms being adapted to fit snugly together, the rear arm within the angle of the forward arm, each arm being provided with ears at its opposite ends extending toward the other arm, a pivot connecting the ears at one end in overlapping relation, the ears at the other end being apertured, and a padlock to engage through the last named ears, the adjacent sides of the arms having complementary notches immediately adjacent to said ears for receiving the brake and high speed lever and reverse pedal lever with the ears adjacent to said levers, the forward arm having a recess at the angle thereof, and the rear arm having a complementary recess at the elbow thereof for receiving the clutch pedal lever.

1,392,195. FOLDABLE COT. GEORGES MISSOGENIS, Edgewater, N. J., assignor, by mesne assignments, to Plato Guimes, Palisade, N. J. Filed Aug. 6, 1918, Serial No. 248,543. Renewed Aug. 24, 1921. Serial No. 494,922. 1 Claim. (Cl. 5—5.)



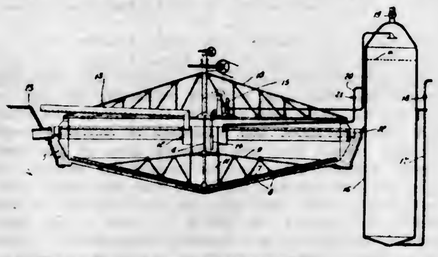
In a foldable cot or bed structure, a foldable head rest frame including vertically disposed arms, and means for supporting the same, horizontally disposed members pivotally connected to said vertical arms, rods detachably connecting one end of said horizontal members to said vertical arms, and a rod pivotally connected to the free end of one of said members and having detachable connection with the free end of the other of said members.

1,392,196. PLOW-LIFTING MECHANISM. ALEXANDER MITCHELL, Pueblo, Colo., assignor to The Alex Mitchell Motor Plow Company, a Corporation of Colorado. Filed Feb. 24, 1920. Serial No. 360,747. 9 Claims. (Cl. 97—30.)



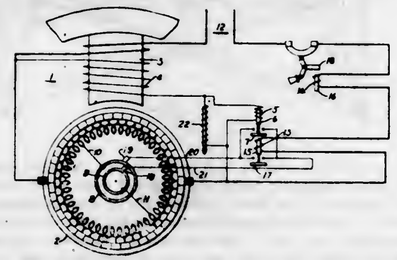
1. The combination with a wheel-supported frame, of a plow, a motor on the frame, a rotatable member mounted upon the frame, operative connections between said member and the plow, means driven by the motor for rotating said member in one direction, and means movable with said last-mentioned means for interrupting the rotation of said member whereby a partial rotation will raise the plow and further rotation in the same direction will lower the plow.

1,392,197. SEWAGE TREATMENT. HOWARD WALL MORGAN, North Tarrytown, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed Nov. 10, 1920. Serial No. 423,009. 7 Claims. (Cl. 210—2.)



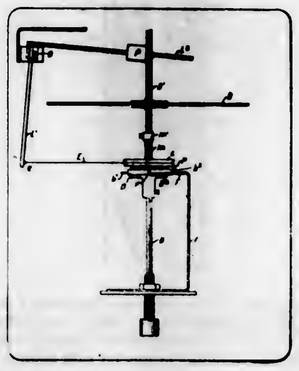
1. The method of treating sewage which comprises, subjecting the sewage to sedimentation and decantation in an appropriate basin having a sludge discharge outlet in communication with the bottom thereof, mechanically working material settling on the bottom of said basin toward said outlet, withdrawing settled material through said outlet in the form of sludge, and supplying such withdrawn sludge to a relatively deep body of similarly obtained sludge undergoing biological digestion.

1,392,198. PROTECTIVE APPARATUS FOR DYNAMO-ELECTRIC MACHINES. CHARLES MCL. MOSS, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed June 29, 1918. Serial No. 242,623. Renewed Nov. 23, 1920. Serial No. 426,106. 15 Claims. (Cl. 171—228.)



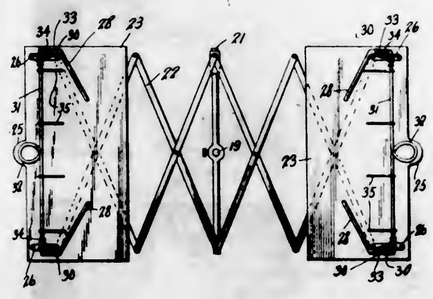
1. The combination with a dynamo-electric machine of the commutator type, of means for interconnecting a plurality of points of different potentials in the armature winding thereof, upon an abnormal change in the field flux of said dynamo-electric machine.

1,392,199. ELECTRICAL MEASURING INSTRUMENT. ALFREDO MURATORI, Rome, Italy, assignor to The British Westinghouse Electric and Manufacturing Company Limited, a Corporation of Great Britain. Filed Dec. 9, 1916. Serial No. 136,061. 7 Claims. (Cl. 171—34.)



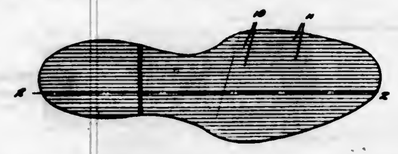
1. In an excess-demand meter, the combination with a rotatable member, of a single weighted bell-crank lever, a pulley loosely mounted on the rotatable member, means for connecting the lever to the pulley, and means for recurrently connecting the pulley to the rotatable member.

1,392,200. BOOK-HOLDER. JOHN A. NAKONEY, Marysville, Mich. Filed Jan. 11, 1921. Serial No. 436,476. 3 Claims. (Cl. 45—82.)



2. A device of the character described comprising a supporting standard, an elongatable book support proper carried by said standard, clamping means carried by said book support engageable with the covers of a book disposed thereon, and clamping means engageable with the exposed pages of the book when the latter is in open position, said last named clamping means being operable independently of the first named clamping means, and both clamping means being simultaneously released when the first named clamping means is released.

1,392,201. COMPOSITE BOOT AND SHOE SOLE. ABLE D. NEARON, Muncie, Ind. Filed July 21, 1919. Serial No. 312,199. 1 Claim. (Cl. 36—30.)



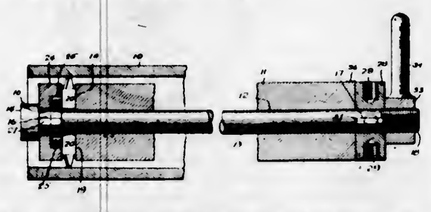
A composite sole for shoes composed of longitudinally disposed alternating strips of rubber and textile material, the strips being united by vulcanizing and set on edge and continuous from end to end and extending from edge to edge of the sole.

1,392,202. FLUE-CLEANER. WENCIL NECHVILLE, Cedar Rapids, Iowa. Filed Mar. 26, 1920. Serial No. 368,924. 3 Claims. (Cl. 15—41.)



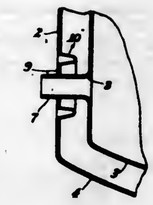
1. A flue cleaner, including a pair of arms hingedly secured together adjacent one of their ends, a pair of yoke links pivotally secured together at one of their ends and being pivotally attached to the inner faces of said arms, and a spring extending between the point of pivotal connection of said yoke links one to the other, and having its opposite end secured to said arms at their point of hinged connection, one with the other, and flue cleaning means secured to the outer ends of said arms.

1,392,203. ADJUSTABLE BORING-TOOL. OLOF NELSON, Belmont, Mass. Filed Aug. 7, 1919. Serial No. 315,998. 3 Claims. (Cl. 10—142.) (Filed under act of Mar. 3, 1883, 22 Stat. L., 625.)



3. A boring tool, including a hollow bar, a cutting tool mounted for radial movement in one end of the bar, a shaft extending through the bar, a cam secured to one end of the shaft and engaging the cutting tool for adjusting it by the rotary movement of the shaft, a collar secured to the other end of the shaft, an indicator on the bar and graduations on the collar to indicate the angular displacement of the collar and shaft.

1,392,204. OUTLET FOR JACKETED VESSELS. EDGAR B. NICHOLS, Rochester, N. Y., assignor to the Pfaudler Company, Rochester, N. Y. Filed Dec. 30, 1920. Serial No. 434,068. 3 Claims. (Cl. 220—14.)



1. An outlet for jacketed vessels comprising a nipple extending from the vessel; an annular collar on said nipple, and a ring of substantially U-shaped cross-section, the inner edge of the ring being welded to said collar and the outer edge of the ring being welded to the jacket of the vessel.

1,392,205. SIGHT-FEED DEVICE. OSCAR CARL NORTON, Roodhouse, Ill. Filed May 7, 1920. Serial No. 379,605. 3 Claims. (Cl. 123—25.)



1. In a sight feed device, the combination with a body provided with upper and lower spaced branches having valve seats, upper and lower needle valves threaded longitudinally into said branches and engaging the valve seats of the same, said body being provided with inlet means in communication with said upper branch and with discharge means in communication with said lower branch, said lower branch being provided with an open bowl extending below said lower needle valve and the valve seat of the same, the space between said upper and lower branches being entirely unobstructed to permit a priming fluid to be introduced into said bowl.

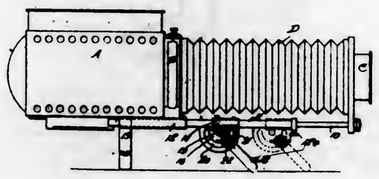
1,392,206. STAKE. ERIK OLSON, Great Falls, Mont. Filed Jan. 22, 1921. Serial No. 439,145. 1 Claim. (Cl. 280—147.)



A stake, a metal ferrule encircling the lower end of the stake, said stake having a tapering recess therein, an extension on the ferrule concealing said recess, a spring strip

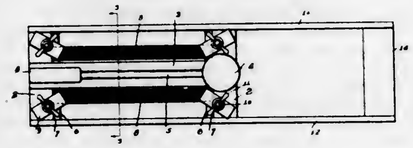
located in the recess and having its upper end secured to the inner face of the extension, said strip terminating in an integral locking dog located below the ferrule and engageable under the lower end of a stake pocket to prevent accidental withdrawal of a stake therefrom.

1,392,207. PROJECTION APPARATUS. HARVEY N. OTT, Buffalo, N. Y., assignor to Spencer Lens Company, Buffalo, N. Y. Filed Aug. 11, 1920. Serial No. 402,850. 10 Claims. (Cl. 88—24.)



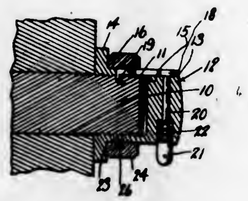
4. In projection apparatus, the combination with a lamp box, a projection objective, and extensible members connecting said projection objective and said lamp box, of a support for one end of the apparatus, said support comprising sleeves surrounding said extensible members and supporting legs angularly adjustable relatively thereto.

1,392,208. BEARING-DRESSING DEVICE. CHARLES S. OVERMAN, Detroit, Mich. Filed Aug. 14, 1920. Serial No. 403,540. 3 Claims. (Cl. 29—80.)



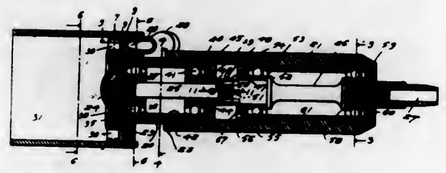
1. A device of the class described comprising a frame consisting of a pair of cross pieces and a longitudinally extending connecting piece, a file on each side of said connecting piece and means for clamping the files to the cross pieces.

1,392,209. NUT-LOCK. STEPHEN PAJEWSKI, Natrona, Pa. Filed Feb. 23, 1921. Serial No. 447,117. 2 Claims. (Cl. 151—6.)



1. The combination with a bolt having an opening therein, of a nut threaded thereon, a dog carried by and movable transversely of the nut for removable engagement in said opening, said dog operating in an elongated longitudinally disposed opening provided in the nut, whereby said dog may be engaged in the bolt opening and movable means for holding the dog in engaged position.

1,392,210. HIGH-SPEED SPINDLE. JOHN W. PARKER, Detroit, Mich. Filed May 5, 1920. Serial No. 379,118. 8 Claims. (Cl. 253—3.)

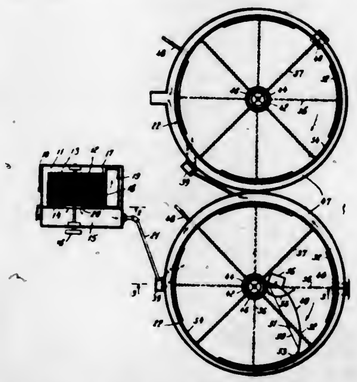


1. A high speed spindle having a casing consisting of terminally telescoping tubular body and sleeve members, of which the former is provided with a head, an exhaust tube or cylinder carried by said head, a propeller having a drive shaft mounted in bearings in the body member of the casing and provided with peripheral blades or buckets, and a fluid pressure nozzle attached to said head, the latter being provided with a plurality of tapered jet passages for directing the fluid pressure upon the blades or buckets of the propeller.

1,392,211. PROCESS OF SEWAGE TREATMENT. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed Mar. 27, 1920. Serial No. 369,201. 16 Claims. (Cl. 71—8.)

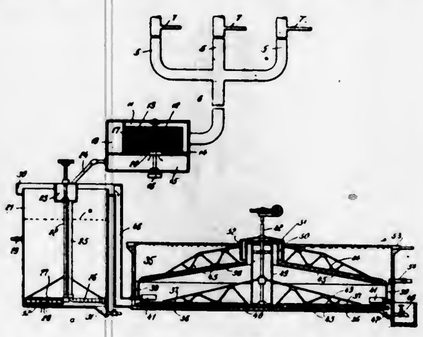
5. The method of treating sewage and simultaneously fixing atmospheric nitrogen and absorbing the products of fixation in the sewage which comprises subjecting the sewage to the action of an organism favorable to the clarification of the sewage and simultaneously forcing air through the sewage in the presence of a compound of iron.

1,392,212. TREATMENT OF SEWAGE. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed Mar. 27, 1920. Serial No. 369,202. 19 Claims. (Cl. 210—2.)



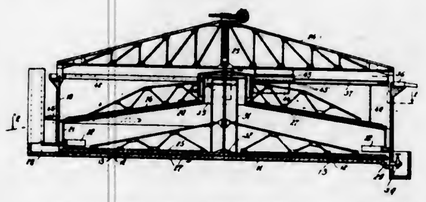
1. The method of treating sewage and similar liquors containing nitrogen-rich and nitrogen-poor solid matters, which comprises comminuting the nitrogen-rich solid matter contained in the liquor into particles of a smaller size than the nitrogen-poor solid matter, subjecting the liquor to a screening operation in the course of which the bulk of the liquor together with the major part of the nitrogen-rich solid matter passes through the screen, removing from the liquor during the screening operation solid matter poor in nitrogen, and subjecting the screened liquor containing the comminuted nitrogen-rich solid matter to biological clarification.

1,392,213. TREATMENT OF SEWAGE. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, a Corporation of Delaware. Filed July 31, 1920. Serial No. 400,480. 27 Claims. (Cl. 210—2.)



1. The method of treating sewage which comprises subjecting the sewage to biological action in the presence of biological growths favorable to the clarification of the sewage, adjusting the hydroxyl-ion concentration of the sewage to a value between about 1×10^{-3} and 1×10^{-4} and maintaining within the sewage a favorable environment for such biological action by introducing into the sewage undergoing treatment one or more agents conducive to the development of said favorable environment.

1,392,214. APPARATUS FOR TREATING SEWAGE. CHARLES LEE PECK, New York, N. Y., assignor to The Dorr Company, New York, N. Y., a Corporation of Delaware. Filed Oct. 14, 1920. Serial No. 416,872. 31 Claims. (Cl. 210—8.)



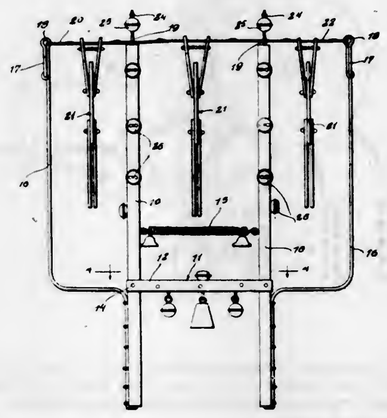
1. An apparatus of the character described, comprising a receptacle divided by a transverse tray into a lower chamber and a superposed settling chamber, said tray having openings near its periphery by which communication is provided between the two chambers, and a positively actuated mechanical mechanism operatively mounted in proximity to the upper surface of said tray for working material settling on the tray toward the periphery thereof.

1,392,215. GAGE. HENRI CIPRIEN PELAMORGUE, Grand Montrouge, France, assignor of one-half to Morton B. Connelly, Philadelphia, Pa. Filed Oct. 19, 1920. Serial No. 418,126. 5 Claims. (Cl. 33—147.)



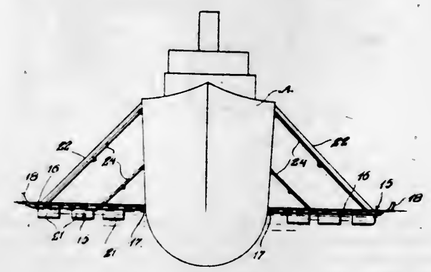
1. A gage comprising a bed, spaced ears upstanding from the bed, a roller positioned in parallelism with the bed and adapted to rotate on an eccentric journal, and a scale embodying means to register the point at which the rotation of the roller is interrupted.

1,392,216. MOVING AND SOUNDING TOY. GUIDO PITONI, Rochester, N. Y. Filed May 29, 1920, Serial No. 385,254. Renewed Aug. 5, 1921. Serial No. 490,108. 2 Claims. (Cl. 46—40.)



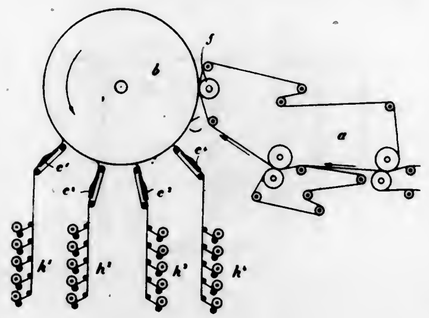
1. A toy comprising spaced substantially parallel relatively movable arms, a spacing bar, means for pivotally connecting the arms to the bar, spring arms carried by and spaced from the movable arms, a spring connecting said movable arms, a flexible element connecting both the movable and spring arms and jointed figures carried by the flexible element.

1,392,217. UNSINKABLE BOAT. SALVATORE PONZIO, Syracuse, N. Y. Filed Mar. 1, 1920. Serial No. 362,254. 1 Claim. (Cl. 114—68.)



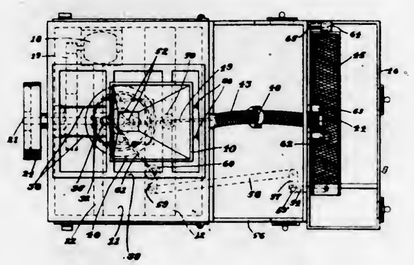
In combination with the hull of a ship, a buoying device comprising a plurality of frames pivoted upon the hull adjacent the water line, a plurality of floats carried by each frame, windlasses mounted upon the deck of the ship, flexible members trained about said windlasses and connected with said frames whereby said frames may be elevated, and a plurality of diagonally disposed brace bars pivotally connected with the hull of the ship near the deck line and pivotally connected with the frame, each of said brace bars being jointed intermediate its ends by means of a rule joint, the function of said brace bars being to hold said frame in substantially horizontal position when in use.

1,392,218. MACHINE FOR PRODUCING NARROW PAPER STRIPS. FRIEDRICH PAUL PRIEM, Heidenheim, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Apr. 15, 1919. Serial No. 290,362. 6 Claims. (Cl. 92—39.)



1. Machine for producing narrower paper strips comprising the combination of strip producing means and folding means for longitudinally folding the strips produced by the first named means.

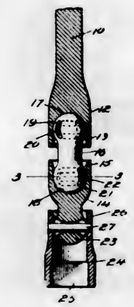
1,392,219. MILL FOR GRINDING GRAIN. THOMAS PROKOPOWICZ, St. Louis, Mo. Filed June 20, 1919. Serial No. 305,587. 1 Claim. (Cl. 83—7.)



In a mill for grinding grain of the character described, the combination of a movable hopper having a downwardly extending projection with a rigid casing, a grinding wheel in said casing having a plurality of conical openings in its bottom element, a rim forming an annular space in said wheel upon said openings and a plurality of inwardly extending vertical lugs adapted to make contact with said projection during the rotation of said wheel, substantially as described and for the purpose set forth.

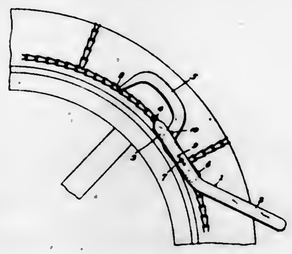
1,392,220. SOCKET-WRENCH. MICHAEL QUINT, Hays, Kans. Filed Dec. 17, 1920. Serial No. 431,450. 1 Claim. (Cl. 81—121.)

An implement of the class described comprising a stock member having a semi-globular socket in one end, a nut engaging portion having a semi-globular socket in one end, pins extending respectively through the sockets, and a link member having semi-globular terminals engaging in said sockets, said link member having transverse slots



at reverse angles to the longitudinal axis of the link and through which the pins extend.

1,392,221. CHAIN-TIGHTENER. PETER MILLER QUINT, Hays, Kans. Filed May 10, 1921. Serial No. 468,459. 2 Claims. (Cl. 254—78.)

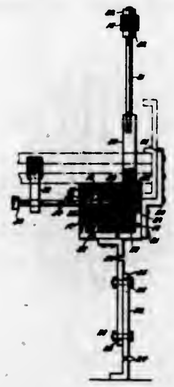


1. A chain tightener comprising an obtuse angled bar and a U-shaped bar, the latter having a substantially right angled longitudinal extension at the end of one arm, said extension and the front portion of the obtuse angled bar being pivotally connected intermediate their ends, said arm and the free end of the other arm of the U-shaped bar having opposed hooks at their terminals, and a stop on one of said members for engagement with the other to lock them at a predetermined point.

1,392,222. CLAMPING ATTACHMENT FOR NAILING-MACHINES. RUDOLPH C. RASMUSSEN, Philadelphia, Pa. Filed Oct. 31, 1919. Serial No. 334,647. 1 Claim. (Cl. 1—15.)

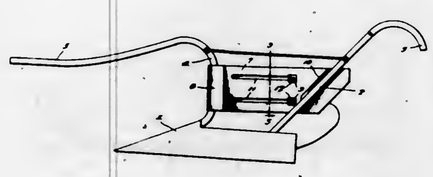
A clamping attachment for nailing machines comprising a rectangular casing equipped for attachment to a stationary part of the machine, a slidable block in said housing and having an inclined face, said slidable block having an element extending through a wall of the casing and being adapted for movement in opposition to compression means for clamping the part to be nailed in proper position, the said compression means interposed between the block and said wall of the casing and a depending plunger adapted to be attached

to and carried by the driving head and having an inclined portion at its lower part for coöperation with the



aforesaid inclined face of the movable member to actuate the latter in advance of an actual nailing operation.

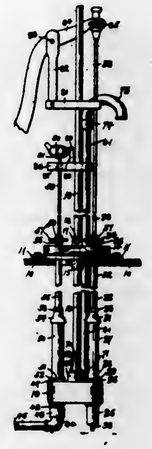
1,392,223. FENDER. JAMES A. RINGLE, Hoxie, Ark. Filed Dec. 13, 1920. Serial No. 430,400. 1 Claim. (Cl. 97—18.)



A fender for plows, for the purpose set forth, comprising two plates arranged in contacting relation, the outer plate having one of its ends rounded upon itself to provide a lip to engage with a portion of the plow, said outer member having spaced inwardly projecting threaded elements, the innner member having one of its ends bent upon itself to provide an angle lip to engage with a part of the plow, said inner member having elongated slots through which the threaded elements pass, and nuts on said threaded elements contacting the inner member and binding the same against the outer member.

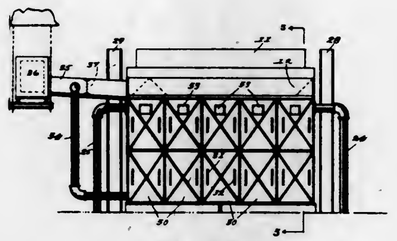
1,392,224. PUMP-OPERATNG APPARATUS. DOMINICK ROHEN, Evart, Mich. Filed Jan. 13, 1921. Serial No. 436,942. 5 Claims. (Cl. 103—79.)

3. In an apparatus of the class described, a casing adapted to be connected to a pump device, a tubular pump rod guide detachably connected to said casing, a discharge conductor leading from said casing, a tubular guide for a cutoff rod detachably coupled to said casing, a support having a plurality of relatively large openings through which the discharge conductor and the tubular guides extend, and means operative on said sup



port for detachably clamping said guide devices to the support.

1,392,225. CHARCOAL DRIER AND CLEANER. THOMAS SAROCKIN and JOHN MAGIELDA, Crockett, Calif. Filed May 3, 1920. Serial No. 378,617. 20 Claims. (Cl. 34—34.)

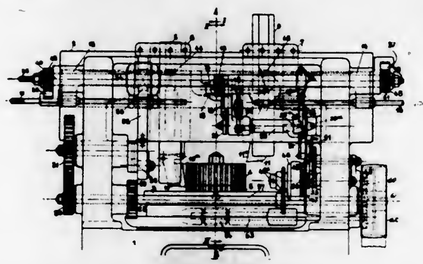


1. An apparatus for treating charcoal of the character described comprising a tower, consisting of three superposed floors, a preliminary drying chamber on the upper floor, heating retorts and a fire box in the central floor, and cleaning, cooling and delivery means on the ground floor, means for regulating the draft, means for visibly indicating the degree of the draft regulation, means for supplying charcoal to said tower, and means for supplying fuel to the same.

1,392,226. GEAR-SLOTTING MACHINE. OTTO SCHAEBER, Basel, Switzerland. Filed June 29, 1920. Serial No. 392,675. 6 Claims. (Cl. 90—8.)

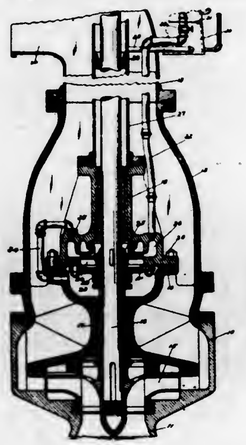
2. In a gear slottting machine, the combination of a rotary table adapted to hold the blank coaxially to the table, two tool rams arranged diametrically opposite each other with regard to the axis of the blank, a driving shaft, means to convert the rotary motion of the driving shaft into a reciprocating motion of the tool rams and to actuate same alternately so that one ram is

performing its working stroke while the other is performing its return stroke whereby a uniform consumption



of power is atttained, and a feed mechanism for imparting to each tool ram a uniform feed motion in a radial direction with regard to the blank.

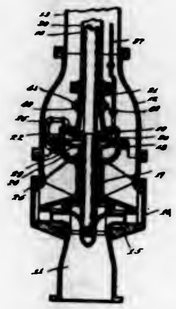
1,392,227. DEEP-WELL-PUMP-LUBRICATION SYSTEM. VICTOR SCHLEYER, Anderson, Ind., assignor to Midwest Engine Company, Indianapolis, Ind., a Corporation of Indiana. Filed Oct. 30, 1920. Serial No. 420,694. 9 Claims. (Cl. 253—199.)



1. In a deep-well pump, the combination of a shaft extending down into the well, a rotary pump in the well and having a runner connected to said shaft, a water-discharge pipe extending up from said pump around said shaft, a main pump bearing above the runner on said shaft, a lubricant-pump having a runner above said main pump bearing, a lubricant-conducting pipe surrounding said shaft and extending upward from the inlet of said lubricant pump, and a connection from the discharge of said lubricant pump to said main bearing.

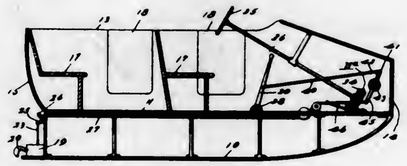
1,392,228. SELF-MAINTAINING LUBRICATING SYSTEM FOR DEEP-WELL PUMPS. VICTOR SCHLEYER, Anderson, Ind., assignor to Midwest Engine Company, Indianapolis, Ind., a Corporation of Indiana. Filed Nov. 8, 1920. Serial No. 422,493. 12 Claims. (Cl. 253—199.)

1. In a deep-well pump, the combination of a shaft extending down into the well, a rotary pump in the well and having a runner connected to said shaft, a water-discharge pipe extending up from said pump around said shaft, a lubricant pump also located in the well and having a runner connected to said shaft, a lubricant-conducting pipe surrounding said shaft and extending upward from the inlet of said lubricant pump, a tank connected to the upper end of said lubricant-conducting



pipe, a second lubricant-conducting pipe extending upward from the discharge of said lubricant-pump to said tank, said tank being arranged to provide a serpentine course between said two pipes to permit settling from the lubricant of any sand and dirt carried thereby, and a water-admission conduit provided with a filter and connecting the inlet of said lubricant pump with the water in the well.

1,392,229. SLEIGH-BRAKE. MARTIN WILHELM SEIFERT, Murray, Utah. Filed May 8, 1920. Serial No. 379,861. 4 Claims. (Cl. 188—8.)

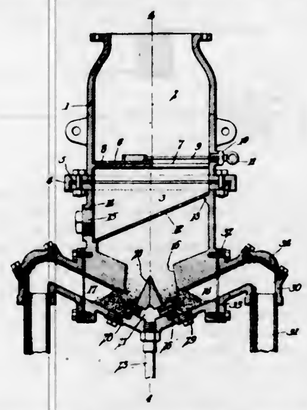


1. The combination with a sleigh, of shoes pivotally mounted upon each of the runners and normally disposed above the lower surface thereof, toothed segments mounted upon each side of the center of the sleigh and flexibly connected with the shoes, a manually operated gear engaging both segments to depress the shoes independently to provide a steering mechanism, means connected to the steering mechanism to depress the shoes simultaneously to provide a braking mechanism and means for normally holding the shoes in elevated position.

1,392,230. TRACK-SANDER. HOWARD M. SHADE, Conemaugh, Pa. Filed Mar. 7, 1921. Serial No. 450,212. 2 Claims. (Cl. 291—5.)

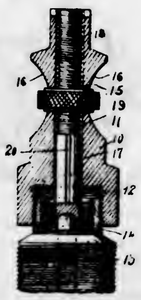
2. A device of the class described comprising a bracket having a discharge opening in its bottom, a deflector extending into said opening, said bottom having three outlet ports therein communicating with the opening and the deflector having a T-shaped port therein and an L-shaped port therein, a pair of nozzles adjustably mounted in the T-shaped port, a nozzle adjustably

mounted in the L-shaped port, said nozzles being arranged to discharge into the three ports above mentioned,



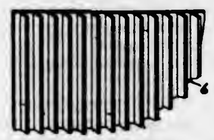
means for supplying compressed air to the T and L-shaped ports and delivery pipes connected with the three ports above mentioned.

1,392,231. TIRE-DEFLATOR. MASAO SHIMADA, Kahului, Hawaii. Filed Oct. 7, 1920. Serial No. 415,350. 1 Claim. (Cl. 152—12.)



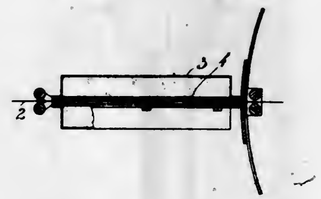
A device of the class described comprising a body having a longitudinal bore and a transverse opening, a threaded rod movable in said bore and adapted to engage a valve stem, and a nut engaging said threaded rod and operative through said opening.

1,392,232. SECONDARY OR STORAGE BATTERY. EDWARD WANTON SMITH, Philadelphia, Pa. Filed Sept. 4, 1915, Serial No. 49,005. Renewed July 15, 1921. Serial No. 485,036. 6 Claims. (Cl. 204—29.)



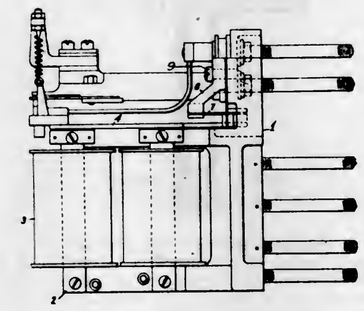
1. A separator consisting of the combination of wood and a gelatinous substance filling the interstices of the wood and adapted to protect the same from destructive action.

1,392,233. FILM-FIRE EXTINGUISHER. ERICH STROHBACH, Vienna, Austria. Filed Aug. 1, 1914. Serial No. 854,600. 4 Claims. (Cl. 169—2.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. An apparatus for use in preventing flames from spreading along celluloid films or the like, comprising a substance adapted to liberate inert gases upon being heated by the combustion of a film to suppress combustion, and a good heat conductor at one side of said substance, so that the apparatus may be located with the heat conductor between said substance and the film, said conductor being adapted to extract heat from said film and transmit it to said substance.

1,392,234. PIVOTAL MOUNTING. ALLEN A. TIRRILL, Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 11, 1917. Serial No. 185,793. 8 Claims. (Cl. 175—336.)

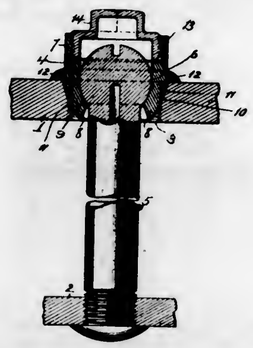


8. In an electromagnet, the combination with an armature, of a pivotal mounting therefor comprising plate springs arranged with their planes intersecting each other and each having one end attached to the armature, and a frame to which the other ends of the springs are attached.

1,392,235. STAYBOLT STRUCTURE. BENJAMIN E. D. STAFFORD and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Sept. 10, 1919. Serial No. 322,879. 1 Claim. (Cl. 85—1.5.)

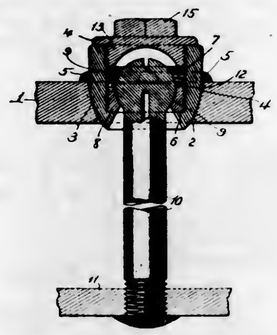
In a staybolt structure, the combination of a boiler sheet having an opening, a part of the wall of which is reamed forming an enlarged tapering portion, a bearing sleeve having a tapering portion entering said opening and bearing on the enlarged tapering portion thereof, the inner end of said bearing sleeve terminating in the contracted inner end portion of the opening in the boiler sheet and the outer part of said bearing sleeve projecting outwardly beyond

the outer face of the boiler sheet, a staybolt having a head mounted in said bearing sleeve, and a weld surrounding



the outwardly projecting part of the bearing sleeve and uniting the latter to the boiler sheet.

1,392,236. STAYBOLT STRUCTURE. BENJAMIN E. D. STAFFORD and ETHAN I. DODDS, Pittsburgh, Pa., assignors to Flannery Bolt Company, Pittsburgh, Pa. Filed Sept. 12, 1919. Serial No. 323,364. 2 Claims. (Cl. 85—1.5.)



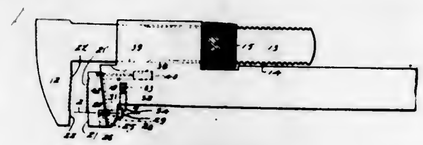
1. In a staybolt structure, the combination with a boiler sheet having an opening, of a bearing sleeve having a threaded interior portion and an internal shoulder near its lower end, a bearing ring located in said bearing sleeve over said internal shoulder and threaded to mesh with the threads in the sleeve, said ring having a seat for the head of a staybolt, a staybolt, having a head seated on said bearing ring, and means closing the outer end of said sleeve.

1,392,237. GARMENT SUPPORTER. MARY STARMER, Newport News, Va. Filed July 8, 1920. Serial No. 394,618. 3 Claims. (Cl. 24—188.)



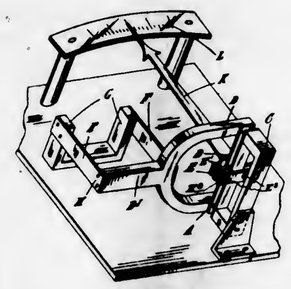
1. The combination with an adjusting buckle having a rear bar formed with spurs and upper and lower front bars forming a loop, of a web slidable in said loop with its extremity passed around said rear bar and punctured by said spurs, retaining prongs on the front bars to engage the web, and a locking lever on said front bars.

1,392,238. WRENCH. CHARLES C. STEWART, Stoddard, Ariz. Filed May 5, 1920. Serial No. 379,115. 3 Claims. (Cl. 81—177.)



1. In a device of the class described, a stationary jaw, a movable jaw, a working block slidable along the face of the stationary jaw, and having tongue and groove connection therewith, said block having an opening therein and a slot communicating with the opening, a stop pin passing through the stationary jaw and entering said opening, said pin having a reduced end portion, the reduced portion coöperating with the opening and slot and being adapted to retain the block against slidable movement and at times to permit of limited slidable movement, and a key for retaining said pin in position to perform either of said functions.

1,392,239. MEANS FOR PRODUCING MAGNIFICATIONS OF MINUTE MOVEMENTS. JAMES GIBB STEWART, Dundee, Scotland. Filed Apr. 2, 1920. Serial No. 370,840. 4 Claims. (Cl. 33—172.)



1. An instrument consisting of two flexible members each narrow in comparison with its length and thin according to the flexibility required, arranged opposite one another with their longitudinal axes contained in a plane normal or approximately so to their surfaces, a connector by which the two flexible members are rigidly connected together at a position between their ends, a stationary support to which the ends of one member are fixed, a movable frame to which the ends of the other member are fixed, a lateral guide for the movable frame, and means to which the angular movements of the connector are imparted, for the purposes set forth.

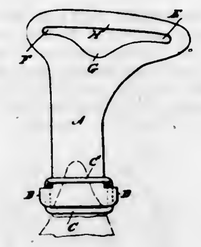
1,392,240. RUBBER COMPOSITION AND METHOD OF MAKING THE SAME. NICOLAS WALCH, Newton Highlands, Mass., assignor to Erwa Chemical Manufacturing Company, Needham, Mass., a Corporation of Massachusetts. Filed Mar. 30, 1918. Serial No. 225,656. 14 Claims. (Cl. 106—23.)

1. A composition composed essentially of rubber and celluloid.

1,392,241. TROUSERS-SUPPORTER. LEONARD WOODS, St. Louis, Mo. Filed Aug. 9, 1919. Serial No. 316,393. 4 Claims. (Cl. 24—81.)

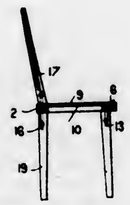
2. A device of the character described comprising a plate body having laterally projecting shoulders near the bottom end, and a rectangular lever frame having parallel

cross bars on opposite sides of said body and connecting curved lever bars adjustably fulcrumed on said shoulders so as to locate one bar adjacent to the bottom end of the body and slide it toward and away from said bottom end and the other bar adjustably mounted above the shoul-



ders on the back side of the body, and slidable to and from said shoulders, the slidable mounting of the frame on said shoulders allowing of either cross bar being used with the bottom end of the body for reversing the device, substantially as described.

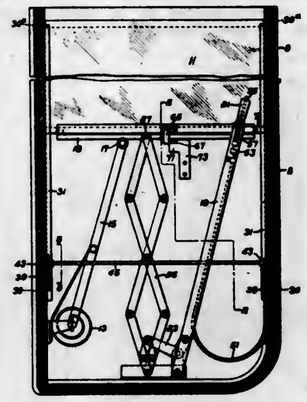
1,392,242. SEPARABLE CHAIR. BERNARDO ALBERGOLI, Las Rosas, Argentina. Filed Mar. 22, 1920. Serial No. 367,976. 2 Claims. (Cl. 155—178.)



1. A demountable chair comprising in combination, a seat frame the side members of which are formed with grooves and the front member of which has its top slightly below the level of said grooves, a bar fitting on the top of said front member and having its upper face flush with the upper level of the side members, front legs each made in a single piece, a relatively short bolt securing each front leg to the seat frame, each bolt extending vertically through and having its head in engagement with the front member of the frame, said bolt also extending vertically into the upper end portion of the leg and having its screw-threaded end in engagement with a nut located in an opening in said leg, a seat comprising slats arranged transversely of said seat frame and having their ends located in said grooves, said bar covering the heads of said bolts and maintaining said slats against removal, and rear legs and a back rest secured to said seat frame.

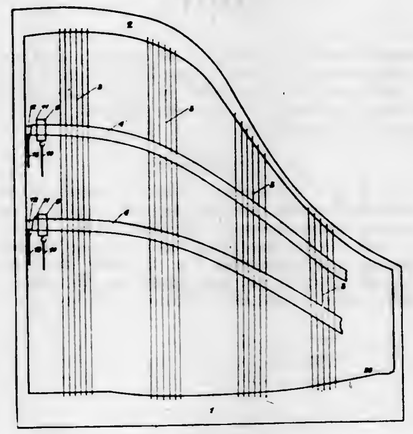
1,392,243. WINDOW CONSTRUCTION. DAVID BOURQUE, Amesbury, Mass., assignor to G. W. J. Murphy Company, Amesbury, Mass., a Corporation of Massachusetts. Filed May 29, 1918. Serial No. 237,332. 19 Claims. (Cl. 268—4.)

1. In a window construction, a light, fixed angle bars each having a flange presented to one side of the light to guide the same, angle bars having flanges connected to other flanges of said fixed bars for relative diagonal move-



ment whereby to provide spreadable channel guides and means for longitudinally shifting said latter bars.

1,392,244. HARMONIC DAMPER FOR PIANOS. GEORGES CLOETENS, Brussels, Belgium, assignor of one-third to Georges Laloux, Liege, Belgium, and one-third to Louis Van Der Heyden a Hauzeur, Brussels, Belgium. Filed Jan. 19, 1920. Serial No. 352,345. 1 Claim. (Cl. 84—234.)



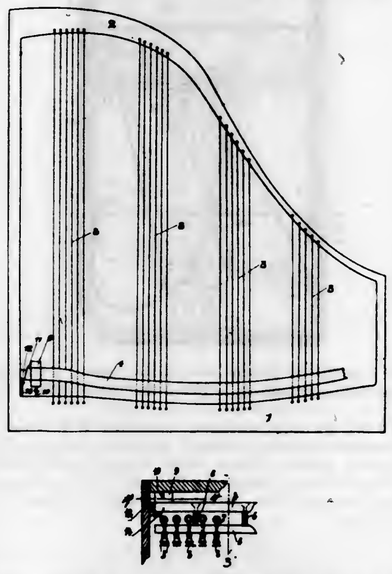
In a stringed musical instrument, the combination with the strings, of a plurality of pressers located to produce harmonics of the strings when moved thereagainst, a bar supporting said pressers, means located to move said bar toward said strings, and means located to move said bar longitudinally in order that the pressers may be applied only against certain of the strings in each note when said bar is moved toward said strings.

1,392,245. STRINGED MUSICAL INSTRUMENT. GEORGES CLOETENS, Brussels, Belgium, assignor of one-third to Georges Laloux, Liege, Belgium, and one-third to Louis Van Der Heyden a Hauzeur, Brussels, Belgium. Original application filed Jan. 19, 1920. Serial No. 352,345. Divided and this application filed Mar. 7, 1921. Serial No. 450,496. 3 Claims. (Cl. 84—216.)

2. A stringed musical instrument, comprising a plurality of pressers located to be applied against the strings

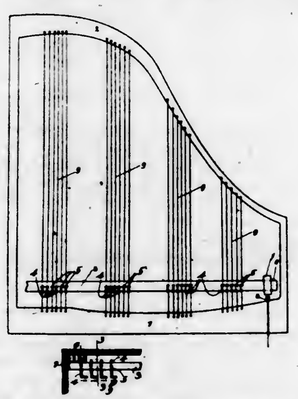
near the ends thereof, a support common to said pressers, and means for moving said support toward said strings.

3. A stringed musical instrument, comprising a plurality of pressers located to be applied against the strings near the ends thereof, a support common to said



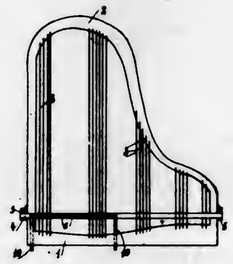
pressers, means for moving said support toward said strings, and means for moving said support longitudinally in order that the pressers may be applied only against certain of the strings of each note when the support is moved toward said strings.

1,392,246. STRINGED MUSICAL INSTRUMENT. GEORGES CLOETENS, Brussels, Belgium, assignor of one-third to Georges Laloux, Liege, Belgium, and one-third to Louis Van Der Heyden a Hauzeur, Brussels, Belgium. Original application filed Jan. 19, 1920, Serial No. 352,345. Divided and this application filed Mar. 7, 1921. Serial No. 450,497. 2 Claims. (Cl. 84—216.)



2. A stringed musical instrument played by hammers, having a bar positioned transversely above the strings in proximity to the hammer line, adjustable rods carried by said bar bent at their lower ends to form hard pieces extending transversely above the strings of the several notes, and means for moving said bar toward said strings, to position said hard pieces to be struck by said strings only when the latter vibrate.

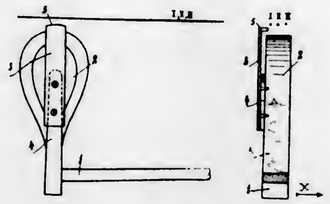
1,392,247. PIANISSIMO DEVICE OF THE CURTAIN TYPE. GEORGES CLOETENS, Brussels, Belgium, assignor of one-third to Georges Laloux, Liege, Belgium, and one-third to Louis Van Der Heyden a Hauzeur, Brussels, Belgium. Original application filed Jan. 19, 1920, Serial No. 352,345. Divided and this application filed Mar. 7, 1921. Serial No. 450,498. 4 Claims. (Cl. 84—220.)



1. A stringed musical instrument played by hammers, and having a band of felt or the like supported in proximity to a side of the instrument for insertion between the strings and the hammers by a movement at right angles to the strings and in a plane substantially parallel to the plane of the strings.

4. In a stringed instrument played by hammers, two guiding ribbons stretched transversely between the hammers and the strings, reels at the ends of said ribbons and under the instrument, and bands of felt or the like led on said ribbons and reels.

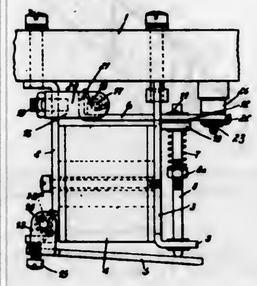
1,392,248. MANDOLIN ATTACHMENT FOR PIANOS. GEORGES CLOETENS, Brussels, Belgium. Filed Mar. 7, 1921. Serial No. 450,499. 2 Claims. (Cl. 94—254.)



1. In a stringed instrument played by means of hammers means for producing the effect of plucked strings comprising hard pieces fixed on a portion of the hammers which does not strike the strings during the ordinary play, and projecting beyond the surface of the hammers, so as to strike one or more of the strings of each note when the hammers are moved laterally.

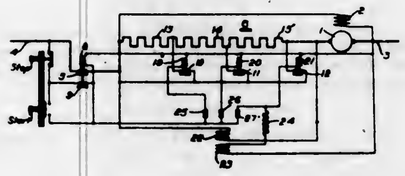
1,392,249. CURRENT-LIMIT RELAY. RAY E. DE CAMP, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 21, 1918. Serial No. 241,259. 10 Claims. (Cl. 200—94.)

2. In a switch mechanism, the combination with means for creating a magnetic field, and a plurality of armatures controlled by said field, of means for successively actuating said armatures in opposition to said magnetic



field, and means for preventing the operation of a plurality of said armatures until one of said armatures has operated.

1,392,250. CONTROL SYSTEM. RAY E. DE CAMP, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 26, 1918. Serial No. 251,429. 9 Claims. (Cl. 172—288.)

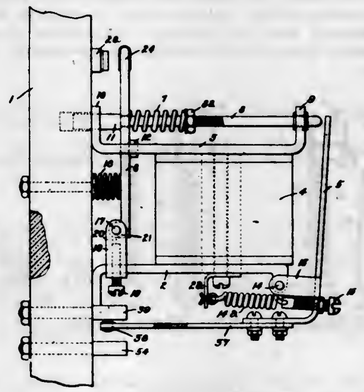


1. In a motor-control system, the combination with an electric circuit including a resistor, of a circuit comprising a switch for short-circuiting said resistor, and means for maintaining said resistor short-circuited, said means comprising a relay member for controlling said switch and a coil energized in accordance with the position of said relay member.

2. In a motor-control system, the combination with an electric circuit including a resistor, of a circuit comprising a circuit-controlling device for effecting the shunting of said resistor, an actuating coil for said device in parallel relation to said resistor, and means controlled by the closing of said device for maintaining the latter closed.

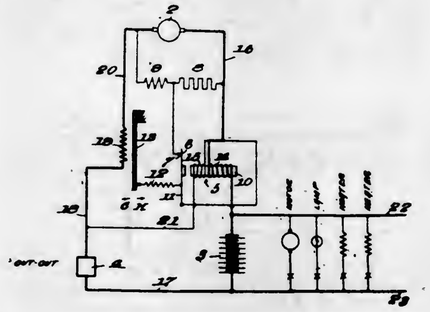
1,392,251. RELAY. RAY E. DE CAMP, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed Aug. 26, 1918. Serial No. 251,430. 6 Claims. (Cl. 200—94.)

4. The combination with a switch member and a relatively weak spring tending to retain said member in its inoperative position, of a coil for retaining said member in its inoperative position so long as said coil is energized above a predetermined degree, an armature member controlled by said coil, and a relatively strong spring con-



trolled by said armature member to actuate said switch member.

1,392,252. SYSTEM OF ELECTRICAL DISTRIBUTION. JAMES KENDALL DELANO, New York, N. Y. Filed July 21, 1920. Serial No. 397,963. 9 Claims. (Cl. 171—313.)



1. In a system of electrical distribution, the combination, with a generator and an adjustable automatic current regulator therefor, of thermostatic means for varying the adjustment of said regulator, and timing means operable by the regulated current to vary the time period of operation of said thermostatic means.

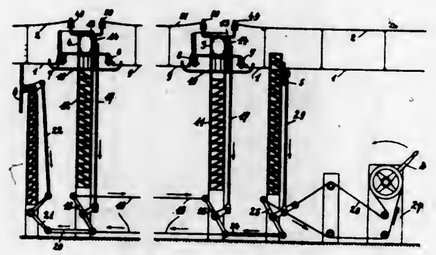
1,392,253. PREPARED FISH-EGGS. RAY GAMBLE and EGBERT J. SLITER, Tacoma, Wash. Filed Mar. 22, 1920. Serial No. 367,686. 2 Claims. (Cl. 99—8.)

2. A preserved fish egg having its contents partially solidified, coated with powdered lycopodium.

1,392,254. BLOCK-SIGNAL SYSTEM. FRITZ GRÜNIG, Thun, Switzerland. Filed Feb. 3, 1921. Serial No. 442,290. 6 Claims. (Cl. 246—4.)

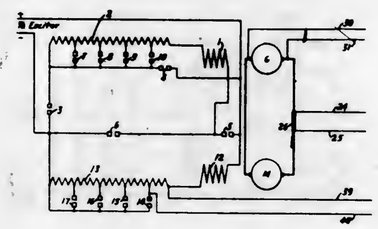
1. In a signaling arrangement for preventing accidents on electrically operated rail roads where the electric locomotive is attended by one man, and in combination, two circuit breakers 13, 14, the one connected with the usual distant or advance signal 6 and the other connected with the usual home or main signal 5, an inter-

locking plant adapted to transmit motion from the usual locking frame located at the station to the circuit breakers, so as to operate the latter simultaneously with the signals, at least one danger signal actuated by a storage battery and controlled by a circuit closer both situated upon the locomotive and adapted to warn the engine driver and provided on the locomotive with



means for closing its circuit in case the locomotive has overrun the stop signal, a danger signal upon the locomotive adapted to warn the train staff of the inattention of the engine driver, a clockwork for operating the danger signal for the train staff and a hand operated circuit breaker for controlling the operating of the last said signal substantially as shown and described and for the purpose set forth.

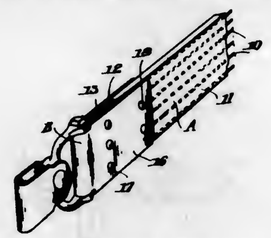
1,392,255. MOTOR-CONTROL SYSTEM. EDWIN S. LAMMERS, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, a Corporation of Pennsylvania. Filed June 13, 1917. Serial No. 174,439. 21 Claims. (Cl. 172—288.)



1. In a motor-control system, the combination with a generator and a motor in series circuit relation, each of said dynamo-electric machines having a field-magnet winding, and a resistor in circuit with each of said field-magnet windings, of means for controlling said resistors, said means comprising a plurality of electromagnetically operable switches each of which is provided with a pair of magnet coils both of which must be energized to close the corresponding switch, and means for insuring the energization of one member of each pair of coils in a definite sequence.

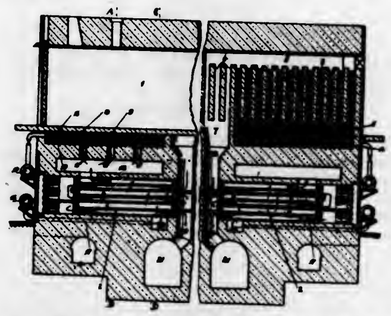
1,392,256. BELT OR STRAP. DUNCAN ALFRED MACARTHUR, Ottawa, Ontario, Canada, assignor to The Goodyear Tire & Rubber Company of Canada Limited, Toronto, Ontario, Canada. Filed July 2, 1917. Serial No. 178,312. 2 Claims. (Cl. 54—52.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A belt comprising a plurality of equi-distantly spaced wires, fabric covering the said wires and vulcanized thereto, part of the fabric being cut away to form a recess at the end of the belt and expose the wires, a plate having a plurality of holes, fitting the said recess,



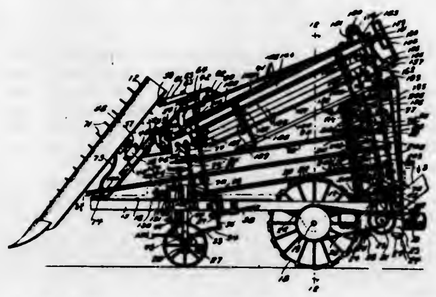
the free ends of the wires being passed through the holes and bent backwardly, and a fitting secured to the said plate.

1,392,257. COKE-OVEN. MAURICE MATHY, Liege, Belgium. Filed July 17, 1919. Serial No. 311,609. 2 Claims. (Cl. 202—9.)



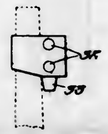
1. A coke oven comprising retorts, flues on each side of said retorts, filled with porous and refractory materials and means for conveying a mixture of air and gas for surface combustion inside said flues.

1,392,258. CANE-HARVESTING MACHINE. RUDOLPH A. MAYER, Pecan Island, La. Filed Mar. 31, 1919. Serial No. 286,543. 25 Claims. (Cl. 56—17.)



1. In a machine of the class described, a frame structure comprising two side members and means whereby said side members are adjustably connected together, each side member being provided with a ground wheel and a steering wheel, and each side member having an independent superstructure; in combination with a frame bar, obliquely disposed and connected at its front end with the superstructure of one side member and at its rear end with the superstructure of the other side member of the frame.

1,392,259. MACHINE FOR MAKING PICKERS. WILLIAM A. PARMENTER, Brockton, Mass., assignor to C. S. Pierce Company, Brockton, Mass, a Corporation of Massachusetts. Filed Nov. 4, 1920. Serial No. 421,798. 9 Claims. (Cl. 69—1.)



1. A machine of the character described comprising a mandrel on which the strip is to be wound, a crossbar, a plurality of guide members projecting from said crossbar, a crosshead slidably mounted on said guide members so as to slide toward and from said crossbar, a pressure roller rotatably mounted on a shaft projecting laterally from said slidable crosshead, and a spring which exerts pressure on said crosshead to hold said roller in yielding engagement with the strip being wound on the mandrel.

1,392,260. RETAINING AND RELEASING DEVICE FOR ROPES, CORDAGE, AND THE LIKE. PERCY WILLIAM SCHOLLAR, London, England, assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Filed Sept. 8, 1919. Serial No. 322,544. 3 Claims. (Cl. 24—241.)



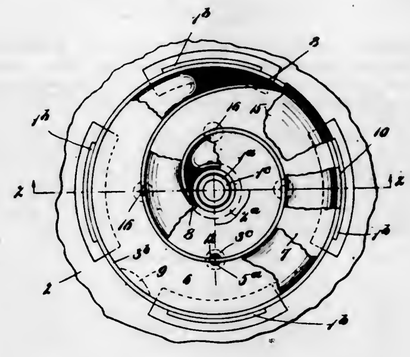
2. A device for detachably connecting ropes comprising a block having an eye for the attachment of a rope thereto, an aperture in said block, a member rotatably mounted in said block and having a recess therein adapted in one position of the member to register with the said aperture, a pair of spring controlled buttons one of which is movable within the other and which are normally pressed in opposite directions to lock said rotatable member and can be pressed together to release said member to permit of partial rotation thereof, and means in said block for limiting the movement of said buttons.

1,392,261. SAW-FITTING TOOL. GUSTAF ANDERSON, Atlin, British Columbia, Canada. Filed Apr. 20, 1920. Serial No. 375,234. 10 Claims. (Cl. 76—46.)



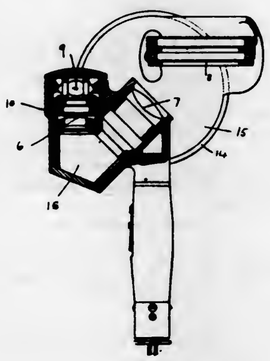
1. In a saw jointer and gage, a frame having parallel saw engaging side planes and longitudinally spaced apart top surfaces at right angles to the side planes, cap plates in spaced relation carried thereby, a horizontal swage gage support, integral with the frame, in the space between the cap plates and beneath the plane thereof, and a resilient swage gage member adjustably clamped to said support, and provided with laterally projecting gaging portions within close proximity of each other and out of registry with the two points of a raker tooth of a saw, to prevent their simultaneous contact therewith, and means for shifting said gage member from a horizontal position to a longitudinally inclined position of the gage member, for the purpose described.

1,392,262. RESILIENT WHEEL. W. EDMANDS BABBITT, Portsmouth, N. H., assignor of two-fifths to Ralph W. Foster, Boston, Mass. Filed Jan. 7, 1919. Serial No. 269,998. 4 Claims. (Cl. 152—46.)



3. A resilient wheel comprising two concentric disks of different diameters slidable one on the other and furnished with walls so disposed as to form an expansible and contractible spiral chamber.

1,392,263. APPARATUS FOR DETERMINING ANGULAR ELEVATION OR DEPRESSION OF DISTANT OBJECTS. LIONEL BARTON BOOTH, Northwood, England. Filed Dec. 9, 1920. Serial No. 429,525. 7 Claims. (Cl. 88—2.4.)



1. An apparatus for determining the angle of elevation or depression of a distant object using a bubble as a point

of reference in lieu of a natural horizon, comprising in combination a curved bubble container, a reflector having a transparent portion through which the distant object may be viewed directly, a collimating lens system by which the image of the bubble is thrown on the reflector to be viewed by the observer and having a focal length sensibly equal to the radius of curvature of the bubble container, and means coöperating with the reflector for bringing the bubble image into coincidence with the directly observed distant object.

1,392,264. COTTON FABRIC. GEORGES HEBERLEIN, Wattwil, Switzerland. Filed Mar. 18, 1921. Serial No. 453,488. 10 Claims. (Cl. 8—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A cotton fabric in which the fibers have undergone a permanent structural change to produce a closer mesh fabric, with a dull, crape-like effect, like fine thin woolen fabric.

1,392,265. COTTON FABRIC. GEORGES HEBERLEIN, Wattwil, Switzerland. Filed Mar. 18, 1921. Serial No. 453,489. 12 Claims. (Cl. 8—20.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

1. A cotton fabric having pattern effects, *i. e.*, background portions and design portions, and in which one has the physical characteristic of mercerized fabric, *i. e.*, soft and glossy, and the other has the physical characteristic of organdie, the contrast between said portions being such as to clearly define the desired pattern.

1,392,266. PROCESS FOR THE MANUFACTURE OF CARBON ELECTRODES OR OF PURE RETORT-CARBON. EMERICH SZARVASY, Budapest, Hungary. Filed June 3, 1920. Serial No. 386,410. 3 Claims. (Cl. 204—65.)

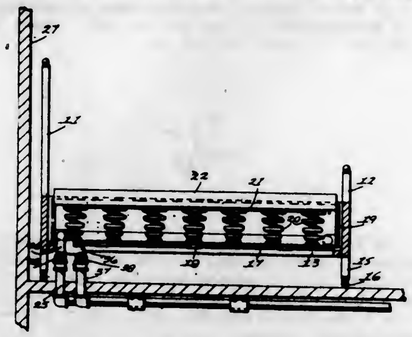
1. A process for the manufacture of entirely pure retort carbon by the dissociation of methane, said process consisting in conducting methane through a decomposing chamber heated by external heating above the dissociation temperature of methane and composed, at the parts heated to said temperature, of pure retort carbon previously produced by the same process, whereby carbon proceeding from the decomposition of methane is deposed on the inner surface of the carbon walls of the decomposing chamber, crushing the carbon deposit together with the carbon walls of the decomposing chamber and using a part of the carbon for manufacturing further carbon decomposing chambers.

1,392,267. PROCESS FOR THE MANUFACTURE OF CARBON ELECTRODES. EMERICH SZARVASY, Budapest, Hungary. Filed June 3, 1920. Serial No. 386,409. 2 Claims. (Cl. 204—65.)

1. A process for the manufacture of carbon electrodes, which consists in subjecting natural gas to a cracking operation by heat in a continuous flow in a decomposing vessel, in such a manner, as to produce a mixture of soot and tar, removing the mixture, and molding and burning it in the usual way.

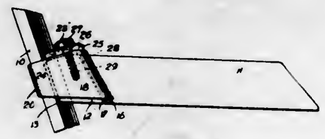
1,392,268. DEVICE FOR HEATING AND COOLING MATTRESSES. MARK S. MARUDA, Chicago, Ill. Filed Sept. 1, 1920. Serial No. 407,334. 2 Claims. (Cl. 126—205.)

1. Device of the character described comprising in combination with a bedstead and mattress therefor, a flanged support plate, means for supporting said plate on the bedstead-bottom, a plurality of coiled springs supported and fastened with their lower ends on said plate, a pipe conduit consisting of a plurality of convolutions secured to said plate between the single rows of springs, connections for said pipe conduit with a source of water and steam,



and valves for controlling the supply and exhaust of said water and steam.

1,392,269. TOOL-HOLDER. BENJAMIN T. CARSON, Rensselaer, N. Y. Filed Mar. 22, 1921. Serial No. 454,366. 7 Claims. (Cl. 29—100.)



1. The combination with a tool holder including a shank, an angular outer end provided with a vertical groove, a yoke member adapted to be supported from said end of the shank to constitute a tool receiving socket and means formed respectively on the yoke and the side faces of said shank end adapted to co-act upon relative vertical adjustments to vary the size of the tool receiving socket, of means for positively locking the yoke to the shank.

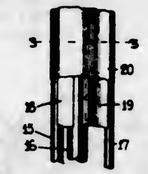
1,392,270. SHOE-LACE TIP. JOHN CHRISTIAN, Cleveland, Ohio. Filed June 23, 1921. Serial No. 479,744. 5 Claims. (Cl. 24—143.)



1. A shoe lace tip comprising a blank of substantially rectangular form having an opening therein near one end through which the end of a shoe lace is inserted, said lace being turned back over the edge of the blank so as to overlie and rest upon said inserted end, and the body of the blank bent over and around one of its longitudinal edges so as to clasp the inserted end and overlying body portion of the lace between the overturned or folded portions of the blank and form a round tip.

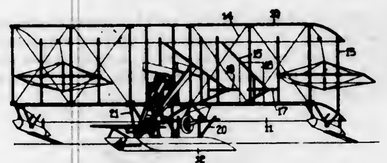
1,392,271. STREAM-LINE WIRING FOR AIRPLANES. GLENN H. CURTISS, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed May 4, 1918. Serial No. 232,487. 5 Claims. (Cl. 244—31.)

1. Airplane wiring including two wires of different gage, the wires being arranged one behind the other with the wire of larger gage in front, and fairing between the wires for spacing them, the fore and aft longitudinal edges of



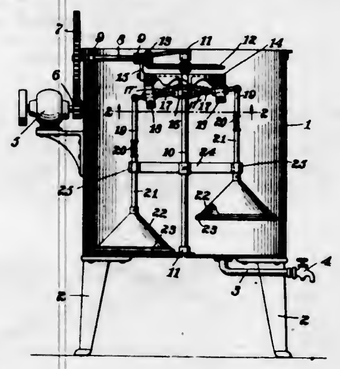
the fairing being grooved to complement the wires and the cross sectional shape of the fairing being such that the wires and fairing together approximate a streamline form.

1,392,272. AIRPLANE LANDING-GEAR. GLENN H. CURTISS, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Original application filed Aug. 22, 1911, Serial No. 645,340. Divided and this application filed May 13, 1918. Serial No. 234,250. 2 Claims. (Cl. 244—2.)



1. A landing gear for aircraft including a plurality of landing gear struts arranged in pairs, one pair of struts being located at one side of the longitudinal vertical plane of the fore and aft axis of the craft and another pair at the opposite side thereof, a flotation base, the pairs of struts in each instance being substantially vertically disposed to support the flotation base at points respectively fore and aft, and the struts in each instance comprising laterally divergent strut legs which extend at an angle to each other.

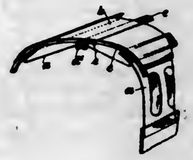
1,392,273. WASHING-MACHINE. EMMET B. DIGBY, Atlanta, Ga. Filed Sept. 7, 1920. Serial No. 408,517. 2 Claims. (Cl. 259—99.)



1. A washing machine comprising a tank, a central shaft vertical throughout its length located therein, a bevel gear mounted on said shaft near its upper end, a cam member mounted on said shaft and held against rotation, two arms pivotally mounted beneath said cam member and provided with rollers thereon for contacting with said cam

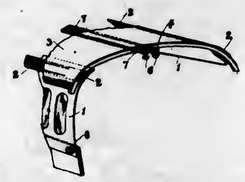
member, vertical arms pivotally mounted on said aforementioned arms and provided with a cone member on their ends, a cross arm secured to said central shaft the ends of which form bearings for said arms having the cone members on their ends, and means for rotating said central shaft to thereby impart a rotary and reciprocatory motion to said cone members.

1,392,274. VEHICLE-TOP. FREDERICK HAROLD HALL, Holford, near Bridgewater, England. Filed Jan. 10, 1921. Serial No. 436,272. 2 Claims. (Cl. 296—141.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. A folding vehicle top, comprising a collapsible roof portion, side curtains secured at their upper ends to the roof portion, transversely extending sticks carrying said roof portion, longitudinal flexible means lying beneath the middle of the roof portion and secured solely to the sticks, and means carried by the said flexible means for detachably securing the lower portions of the curtains to said flexible means to relieve the roof portion of the weight of the curtains and permit the latter to be folded with the roof portion in a zigzag manner while attached to the said flexible means.

1,392,275. VEHICLE-TOP. FREDERICK HAROLD HALL, Holford, near Bridgewater, England. Filed Jan. 10, 1921. Serial No. 436,272. 1 Claim. (Cl. 296—141.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)

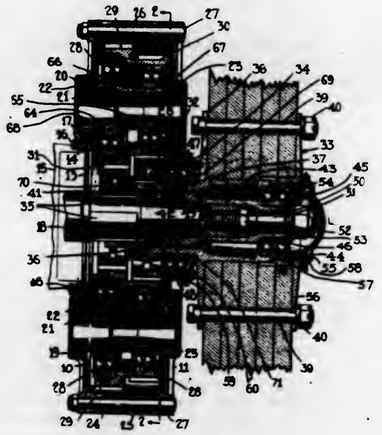


A foldable vehicle top comprising a collapsible roof covering, cross sticks carrying said covering, longitudinal flexible members beneath the opposite side portions of the roof covering and secured solely to the sticks, longitudinal central flexible means secured solely to the sticks below the roof covering, side curtains secured against movement at their upper edges to the flexible members beneath the opposite side portions of the covering, and means for detachably securing the lower portions of the curtains to the said central longitudinal flexible means to relieve the covering of the vehicle top of all weight of the curtains and permitting the curtains to fold and unfold with the said roof covering and the sticks.

1,392,276. REDUCTION-GEARING. CHARLES B. KIRKHAM, Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed Feb. 28, 1917. Serial No. 151,511. 10 Claims. (Cl. 74—7.)

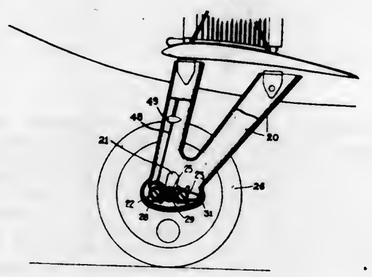
1. A driving connection for aeronautical propellers, including a crank case and stub shaft projecting therefrom,

an extension for said stub shaft comprising a sleeve insertible axially thereon and overhanging the outer end thereof, a driving connection between said extension and said stub shaft, means for retaining the extension on the stub shaft, a propeller hub bearings for carrying the pro-



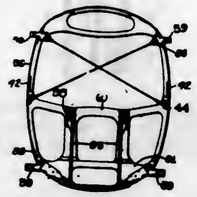
peller hub and located respectively on the overhanging and inner ends of said extension, and a means interposed between said propeller hub and said stub shaft to produce relatively different rotative speeds of said stub shaft and said propeller.

1,392,277. AIRPLANE LANDING-GEAR. CHARLES B. KIRKHAM, Garden City, and ARTHUR L. THURSTON, Hempstead, N. Y., assignors to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed Oct. 7, 1918. Serial No. 257,275. 29 Claims. (Cl. 244—2.)



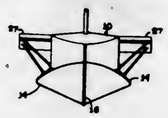
1. An aeroplane landing gear including landing gear struts, a non-rigid axle member comprising independently movable axle sections having pivot axes sufficiently removed one from the other to locate one of said axes nearer to one of said struts and the other of said axes nearer to the other of said struts than to the longitudinal vertical plane of the fore and aft axis of the craft, means extending between the landing gear struts to support both pivot axes, wheels mounted upon the outer ends of the axle sections, and means for yieldingly resisting the displacement of the wheels and axle sections.

1,392,278. FUSELAGE. CHARLES B. KIRKHAM, Garden City, and ARTHUR L. THURSTON, Hempstead, N. Y., assignors to Curtiss Aeroplane and Motor Corporation, a Corporation of New York. Filed Oct. 14, 1918. Serial No. 258,102. 20 Claims. (Cl. 244—30.)



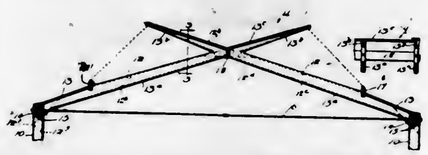
1. A fuselage for airplanes including a transverse diaphragm provided with integral lugs which serve as anchorages for the airplane wings.

1,392,279. FLYING-BOAT HULL. HENRY KLECKLER, Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation, Buffalo, N. Y., a Corporation of New York. Filed Dec. 23, 1918. Serial No. 267,998. 8 Claims. (Cl. 244—2.)



1. In a hull for flying boats, the combination with an airplane wing including a wing beam extended into the hull, of a plurality of braces inclosed in the hull and connecting with the wing beam, the arrangement of the braces being such that the airplane wing is effectually braced in a fore and aft direction, the braces radiating from the wing beam and connecting with the bottom of the hull at its chines to directly carry the hydroplaning stresses (while hydroplaning) to the airplane wing and to distribute the stresses due to the weight mass of the hull (while flying) over substantially the entire fore and aft extent of the hull bottom, at least one of the braces at its forward end terminating at a point nearer to the bow end of the hull than to the transverse vertical plane of the wing beam.

1,392,280. SYSTEM OF INTEGRALLY-CAST REINFORCED-CONCRETE PITCHED-ROOF CONSTRUCTION FOR BUILDINGS. EDGAR D. MARTIN, Chicago, Ill., assignor of one-half to Richard E. Schmidt, Chicago, Ill. Filed Dec. 19, 1918. Serial No. 267,448. 27 Claims. (Cl. 108—1.)



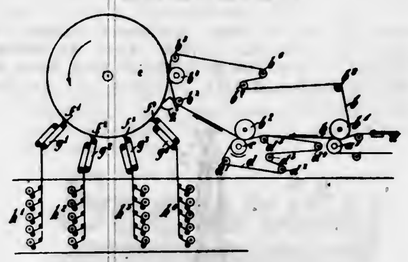
23. A roof, comprising reinforced concrete girders, a series of concrete upwardly inclined and intersecting roof supporting members, extending up therefrom, the free ends outside of the intersections acting as cantalivers supporting a middle concrete roof slab.

1,392,281. SNAP-FASTENER. WILLIAM W. PENFIELD, Stamford, Conn., assignor to William W. Penfield, Inc., Stamford, Conn. Filed Feb. 25, 1921. Serial No. 447,671. 2 Claims. (Cl. 24—220.)



2. A socket member for a snap fastener having an exterior shell, an integral double flanged interior shell, a continuous and imperforate reinforcing member between them, supported at its edge by the outer flange of the interior shell, and a collet having an annular internally projecting rib at its base and a solid top and perforated sides.

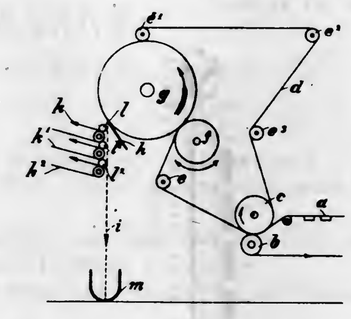
1,392,282. MACHINE FOR PRODUCING ROVINGS FROM PAPER-PULP. FRIEDRICH PAUL PRIEM, Heidenheim-on-the-Brenz, Germany, assignor to Turk Gesellschaft M. B. H., Hamburg, Germany. Filed Mar. 26, 1918. Serial No. 224,873. 3 Claims. (Cl. 92—39.)



1. In a machine of the character described the combination with means for forming and conveying strips of wet paper stock; of a distributing drum of large diameter and a plurality of rubbing devices to roll said strips into rovings, said drum presenting a circumference large enough to maintain said rubbing devices spaced sufficiently for access between them of workmen.

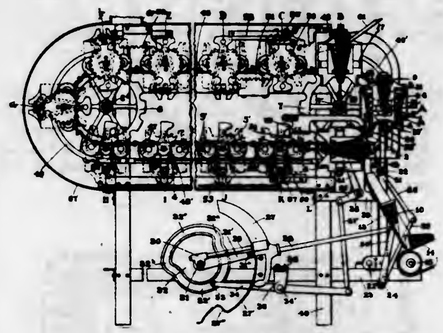
1,392,283. DEVICE FOR LEADING AWAY AND DISTRIBUTING FIBER STRIPS IN MANUFACTURING ROVINGS FROM PAPER-PULP AND THE LIKE. FRIEDRICH PAUL PRIEM, Heidenheim-on-the-Brenz, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed July 7, 1919. Serial No. 309,148. 4 Claims. (Cl. 92—39.)

4. A device for leading away and distributing fiber strips from a movable carrier surface which comprises a series of transporting means consisting of a guide member and a conveying member, said series of transporting means being arranged one above the other below the point at which the fiber strip leaves the carrier and the said series of transporting means being disposed so that the front



thereof is vertical with respect to the line of delivery from the carrier surface.

1,392,284. AUTOMATIC CONE-MAKING MACHINE. WEBSTER M. ROBERTS and PARK D. ROBERTS, St. Joseph, Mo. Filed Aug. 11, 1916. Serial No. 114,895. 34 Claims. (Cl. 107—58.)



14. In a machine of the character described, the combination, with an endless chainlike carrier, a plurality of mold units secured thereto and adapted to be moved through a fixed path thereby, said mold units comprising a sectional mold having a plurality of mold cavities therein and a corresponding plurality of forming cores, means to raise the cores in the mold cavities to permit batter to be supplied thereto, means to heat the mold units to bake the product therein, means to raise the cores in the molds to release the baked product from the cores, and means to remove the said product from the molds.

29. In a machine of the character described, a main frame, an endless chain-like carrier mounted therein on drums spaced apart, a plurality of separable mold sections carried by said carrier, each having cavities in their adjacent faces, said sections and cores adapted to travel over said drums, said sections and cores inverting at times and reverting at other times, and positive mechanical core-supporting means for holding said cores in said molds when said mold sections are in an inverted position.

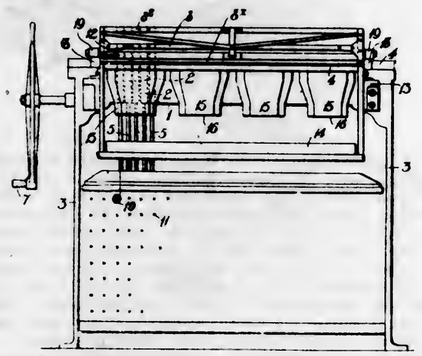
33. In a machine of the character described, the combination, with a mold comprising separable halves, of opening and closing devices comprising slidable means having cam surfaces adapted to engage the mold halves to open and close them.

1,392,285. TOOTHBRUSH. SIDNEY SPRAGUE, Ossining, N. Y., assignor of one-half to Walter V. Scott, Ossining, N. Y. Filed Aug. 17, 1920. Serial No. 404,283. 4 Claims. (Cl. 15—39.)



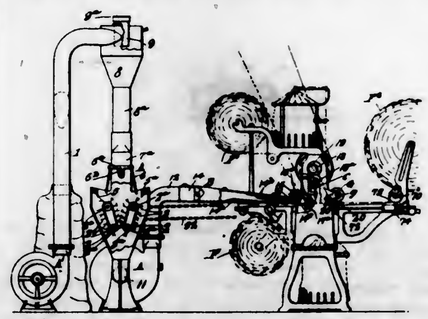
1. A tooth brush comprising a plurality of pivotally connected bristle carrying sections adapted to be folded into parallel relation with respect to each other and handle sections pivoted to the free outer end of the outermost bristle sections at a right angle to the axis of the pivotal connection between the bristle carrying sections.

1,392,286. APPARATUS FOR MANUFACTURING AND PACKING CANDLES, NIGHT-LIGHTS, AND SUCH LIKE ARTICLES. ERNEST WALLS, Bristol, England. Filed Dec. 24, 1918. Serial No. 268,199. 6 Claims. (Cl. 18—27.) (Granted under the provisions of the act of Mar. 3, 1921, 41 Stat. L., 1313.)



1. In an apparatus for manufacturing and packing candles or the like, comprising in combination groups of candle molds, the molds in each group corresponding in position and number to the finished candles in the package; and a candle clamp for receiving the finished candles from the molds, said clamp being provided with candle holes corresponding in position and number to said candle molds, whereby the candles, upon release from said clamp, are positioned in the packages without intermediate sorting or counting.

1,392,287. MACHINE FOR MAKING LAYER FABRICS. FRITZ WEVER, Stuttgart, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc., a Corporation of Delaware. Filed Oct. 29, 1918. Serial No. 260,214. 27 Claims. (Cl. 154—27.)



1. In an apparatus for making composite fabric, a receptacle for feathers and means arranged in connection with the same for loosening and separating the feathers, in combination with means for feeding a fabric layer and a device for spreading the feathers in an even layer onto the fabric layer, a blast for transferring the feathers from the loosening and separating device to the spreading device and means for connecting the feathers to the fabric layer arranged in advance of the spreading device.

REISSUES.

15,202. SOLDERING-IRON. RAYMOND C. PARENT, Chicago, Ill. Filed June 1, 1920. Serial No. 385,851. Original No. 1,303,716, dated May 13, 1919, Serial No. 268,527, filed Dec. 27, 1918. 12 Claims. (Cl. 158—27.)



1. A self-heating implement for the purposes set forth comprising a reservoir-handle, a yoke connected thereto and having openings in its sides, a burner including a needle valve secured within the yoke and accessible through openings therein for adjusting the needle-valve, feed pipes extending from the reservoir-handle to the burner, a fiber packing in the lower end of the reservoir into which the feed pipe extends, and a leather disk on top of the packing through which the liquid fuel permeates to said packing.

TRADE-MARKS

OFFICIAL GAZETTE, SEPTEMBER 27, 1921.

[PUBLISHED OCTOBER 6, 1921.]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Ser. No. 93,491. (CLASS 25. LOCKS AND SAFES.) FIRE-PROOF FURNITURE AND CONSTRUCTION COMPANY, New York, N. Y., and Miamisburg, Ohio. Filed Mar. 13, 1916.

Security

Particular description of goods.—Safes and Office-Safes Made Wholly or Partly of Sheet Metal.
Claims use since June, 1911.

Ser. No. 93,492. (CLASS 32. FURNITURE AND UPHOLSTERY.) FIRE-PROOF FURNITURE AND CONSTRUCTION COMPANY, New York, N. Y., and Miamisburg, Ohio. Filed Mar. 13, 1916.

Security

Particular description of goods.—Filing Cases, Cabinets, and Stacks, in Both Solid and Sectional Constructions, and Files, Drawers, Units and Transfer-Boxes, Wholly or Partly of Metal or Wood, Therefor; Counters and Desks, Tables, and Chairs as Articles of Household and Office Furniture; Bath-Room, Towel, and Medicine Cabinets; Wardrobes, Cupboards, Lockers, and Bookcases; Roller-Shelving, and Units and Cases, Wholly or Partly of Metal or Wood, Therefor; Plain Shelving, Book-Stacks, and Merchandise-Stacks, and Merchandise-Bins, Therefor.
Claims use since June, 1911.

Ser. No. 111,376. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) CHEMICAL CONSTRUCTION COMPANY, Charlotte, N. C. Filed June 5, 1918.

CHEMICO

Particular description of goods.—Acid-Concentrators.
Claims use since about Jan. 1, 1916.

Ser. No. 119,814. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) L. REUSCHE & CO., New York, N. Y. Filed June 20, 1919.

ELARCO

Particular description of goods.—Glassware, China, and Pottery; Decorators' Materials—Namely, Silver and Gold Paint Prepared in Paste and Liquid Form, Thinning-Oils for Paints, Colored Enamels for Flat and High-Relief Decoration of Glass, Colors, Both Opaque and Transparent, Drying-in Powders, Antitarnish-Lacquers to be Applied over Silver Decorations, Liquid Luster Colors for Glass Decoration, Decalcomania-Varnish, Dry Colors, and Sulfur Paint.
Claims use since Apr. 1, 1906.

Ser. No. 125,142. (CLASS 45. BEVERAGES, NON ALCOHOLIC.) ARTHUR WHITTAKER, Manchester, England. Filed Nov. 20, 1919.

Sesquito

Particular description of goods.—Non-Alcoholic, Non-Cereal, Maltless Extracts, Essences, and Prepared Syrups Used in and for Carbonated and Still Drinks and for Non-Intoxicating Carbonated and Still Beverages Sold as Soft Drinks.
Claims use since 1908.

Ser. No. 128,212. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE KLEIN MANUFACTURING COMPANY, Cleveland, Ohio. Filed Feb. 10, 1920.

LINSOLIFE

Particular description of goods.—Paints for Wood, Iron, Tin, or Steel, Structural Iron of Every Description, Telephone-Poles, Tanks, Silos, &c.
Claims use since June 1, 1908.

Ser. No. 130,632. (CLASS 39. CLOTHING.) WACHUSETT SHIRT CO., Leominster, Mass. Filed Apr. 3, 1920. Under ten-year proviso.

Wachusett

Particular description of goods.—Men's Shirts—Namely, Stiff-Bosom, Negligée, Work, and Sport Shirts, Night-Robes and Pajamas.
Claims use since 1889.

Ser. No. 131,389. (CLASS 39. CLOTHING.) MARY E. HEWETT, San Francisco, Calif. Filed Apr. 20, 1920.



The same being a fanciful figure.
Particular description of goods.—Misses' and Children's Outer Garments, Rompers, and Dresses.
Claims use since July 1, 1919.

Ser. No. 132,807. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) THE TURBINE AIR TOOL COMPANY, Cleveland, Ohio. Filed May 24, 1920.



No claim is made to the words "Air Turbine" apart from the mark shown in the drawing.
Particular description of goods.—Pneumatic Drills, Pneumatic Planers, Pneumatic Grinders, Pneumatic Valve-Grinders, and Pneumatic Sanding-Machines.
Claims use since February, 1920.

Ser. No. 133,291. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) FELIX UHAY, Chicago, Ill. Filed June 4, 1920.

De Luxe

Particular description of goods.—Powder-Puffs.
Claims use since on or about Jan. 1, 1917.

Ser. No. 133,304. (CLASS 39. CLOTHING.) FOWNES BROTHERS & CO., London, England, and Gloversville, Amsterdam, and New York, N. Y., assignors to Fownes Brothers & Co., Incorporated, New York, N. Y., a Corporation of New York. Filed June 5, 1920.

"Doesilk"

Particular description of goods.—Fabric Gloves.
Claims use since Mar. 8, 1920.

Ser. No. 133,774. (CLASS 39. CLOTHING.) ABRAHAM FISCH, Los Angeles, Calif. Filed June 16, 1920.

Kowl-o-Robe

Particular description of goods.—Hooded Coats and Bath-Robes.
Claims use since May 20, 1920.

Ser. No. 133,939. (CLASS 17. TOBACCO PRODUCTS.) SCOTT TOBACCO COMPANY, Bowling Green, Ky. Filed June 19, 1920.



Consists of the symbol of a star, red in color, and the words "Red Star." The symbol of a star is disclaimed except when displayed as shown.
Particular description of goods.—Plug, Twist, and Smoking Tobacco.
Claims use since on or about Feb. 1, 1920.

Ser. No. 133,998. (CLASS 39. CLOTHING.) MAURICE C. HYMAN, Rochester, N. Y. Filed June 21, 1920.

"TINY TOTS"

Particular description of goods.—Infants' and Children's Boots and Shoes of Leather, Rubber, Fabric, and Combinations.
Claims use since November, 1912.

Ser. No. 134,262. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NICK NEOFITOS, Chicago, Ill. Filed June 26, 1920.

CLEANOLA

Particular description of goods.—Cleaning Fluid and Dry Cleaner for Cleaning Cloth and Leather Goods.
Claims use since June 30, 1919.

Ser. No. 134,308. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE GOLDBERG PADDING MACHINE COMPANY, Cincinnati, Ohio. Filed June 28, 1920.



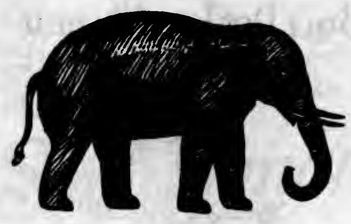
No claim being made to the words "World's Greatest" except in the connection shown in the drawing.
Particular description of goods.—Sewing-Machines.
Claims use since Jan. 2, 1920.

Ser. No. 135,806. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS. (NAAMLOOZE VENNOOTSCHAP OLIEFABRIEKEN INSULINDE, Amsterdam, Netherlands. Filed Aug. 7, 1920.



Particular description of goods.—Soaps.
Claims use since May 1, 1919.

Ser. No. 136,704. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) WILLIAM HALL & CO., LIMITED, Studley, England. Filed Sept. 1, 1920.



Particular description of goods.—Needles, Toilet-Pins, and Bodkins, Knitting-Pins and Crochet-Hooks.
Claims use since Dec. 8, 1882.

Ser. No. 137,809. (CLASS 39. CLOTHING.) ALFRED C. GAUNT, Methuen, Mass. Filed Oct. 1, 1920.

Travel-Tex

Particular description of goods.—Suits, Overcoats, Ulsters, Mackintoshes, Coats, Dresses, Cloaks, Wraps.
Claims use since Sept. 10, 1920.

Ser. No. 137,935. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GLOBE GRAIN & MILLING COMPANY, Los Angeles, Calif. Filed Oct. 5, 1920.

RED MARK



Particular description of goods.—Poultry Food, Animal-Feeding Stuffs, Refined Vegetable Oils for Cooking and Salads, Hydrogenated Vegetable Oils for Shortening, Cornmeal, Graham Flour, Whole-Wheat Flour, Health-Bran, Wheat-Flakes, Pastry-Flour, Farina, Rolled Oats, Steel-Cut Oatmeal, Cracked Wheat, Hominy, Rye-Flour, Rye-Meal, and Pancake-Flour.
Claims use since 1914.

Ser. No. 138,314. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE BULL DOG LOCK WASHER CO., Baltimore, Md. Filed Oct. 15, 1920.

BULL DOG LOCK WASHER



"Never Lets Go the Bolt"

No claim being made to the use of the words "Lock Washer" and "Never Lets Go the Bolt" apart from the mark as shown.
Particular description of goods.—Lock-Washers.
Claims use since Sept. 1, 1920.

Ser. No. 138,437. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) H. FISHELOV & COMPANY, Chicago, Ill. Filed Oct. 18, 1920.



Particular description of goods.—Toys—Namely, Kazoos, Toy French Horns, Toy Cornets, and Miniature All-Metal Articles—Namely, Automobiles, Shoes, Lanterns, Aeroplanes, Animals, Dolls, Aprons, Knives, and Forks.
Claims use since July 1, 1920.

Ser. No. 138,560. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) EDWIN C. HAWKINS, Paducah, Ky. Filed Oct. 20, 1920.

LAFONT'S BEST

Particular description of goods.—Wheat-Flour.
Claims use since about Sept. 27, 1917.

Ser. No. 138,583. (CLASS 39. CLOTHING.) AMSON L. MYERSON, Philadelphia, Pa. Filed Oct. 20, 1920.

MYERSON

Particular description of goods.—Dress and Negligée Shirts, Men's and Young Men's Underwear of One and Two Piece Garments Made of Textile Fabrics, Night-Robes, Pajamas, and Collars.
Claims use since Aug. 25, 1920.

Ser. No. 139,027. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) FALK AMERICAN POTATO FLOUR CORPORATION, Pittsburgh, Pa. Filed Nov. 1, 1920.

"THE BAKING AID THAT NATURE MADE"

Particular description of goods.—Potato-Flour.
Claims use since July 19, 1919.

Ser. No. 139,338. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SOCIÉTÉ ANONYME DES ATELIERS BOREL-PROFIL, Peseux, Switzerland. Filed Nov. 5, 1920.

VERJOUX

Particular description of goods.—Machine-Tools for Working Metals, Wood, Celluloid, Fiber, and in General Any other Malleable Material, Consisting of Presses, Lathes, Drilling-Machines, Planing-Machines, Shaping-Machines, Milling-Machines; Tools for Cutting, Stamping, Punching, and Hammering All Malleable Material; Steam, Pneumatic, and Internal-Combustion Motors; Typewriter-Machines; Machines and Instruments for Land Working and Improvement Consisting of Internal-Combustion Motors, Tractors, Plows, Automobile Plows, Soil-Firmers, Soil-Stampers, Soil-Pulverizers; Hay-Presses, Cotton-Presses, Fruit-Presses, Cotton-Gins; Water, Steam, and Air Pumps; Seeders and Planters, Mowers, Harvesters, Reapers, Straw-Choppers, Harrows, Potato-Diggers, Beet Diggers and Choppers, Land-Rollers, Rakes, Tedders, Threshers, Winnowing-Machines, Stalk-Choppers, Binders, Wooden Handles for Tools; Edge-Tools Consisting of Axes, Hatchets; Table-Knives and Table-Forks of Base Metals, Pocket-Knives, Scissors, Shears, Hair-Clippers, and Machines for Sewing, Gathering, Knitting, and Plaiting.
Claims use since Jan. 30, 1920.

Ser. No. 139,339. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS AND PARTS THEREOF.) SOCIÉTÉ ANONYME DES ATELIERS BOREL-PROFIL, Peseux, Switzerland. Filed Nov. 5, 1920.

.VERJOUX.

Particular description of goods.—Machine-Tools for Working Metals, Wood, Celluloid, Fiber, and in General Any other Malleable Material, Consisting of Presses, Lathes, Drilling-Machines, Planing-Machines, Shaping-Machines, Milling-Machines; Tools for Cutting, Stamping, Punching, and Hammering All Malleable Material; Steam, Pneumatic, and Internal-Combustion Motors; Typewriting-Machines; Machines and Instruments for Land Working and Improvement Consisting of Internal-Combustion Motors, Tractors, Plows, Automobile Plows, Soil-Firmers, Soil-Stampers, Soil-Pulverizers; Hay-Presses, Cotton-Presses, Fruit-Presses, Cotton-Gins; Water, Steam, and Air Pumps; Seeders and Planters, Mowers, Harvesters, Reapers, Straw-Choppers, Harrows, Potato-Diggers, Beet Diggers and Choppers, Land-Rollers, Rakes, Tedders, Threshers, Winnowing-Machines, Stalk-Choppers, Binders, Wooden Handles for Tools; Edge-Tools Consisting of Axes, Hatchets; Table-Knives and Table-Forks of Base Metals, Pocket-Knives, Scissors, Shears, Hair-Clippers, and Machines for Sewing, Gathering, Knitting, and Plaiting.
Claims use since Jan. 30, 1920.

Ser. No. 139,928. (CLASS 39. CLOTHING.) ASSOCIATED MERCHANDISING CORPORATION, Newark, N. J., and New York, N. Y. Filed Nov. 22, 1920.



Particular description of goods.—Children's Shoes of Leather.
Claims use since Nov. 4, 1920.

Ser. No. 140,040. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) GEORGE S. JOHNSON, Detroit, Mich. Filed Nov. 23, 1920.



Particular description of goods.—Face-Cream.
Claims use since Sept. 10, 1920.

Ser. No. 140,332. (CLASS 39. CLOTHING.) THE HAMILTON BROWN SHOE COMPANY, Boston, Mass. Filed Nov. 27, 1920.

AMERICA'S FINEST FOOTWEAR
HB
Spotts-man
SHOES

No claim is made to the words "America's Finest Foot Wear and Shoes" apart from the mark shown on the drawing.
Particular description of goods.—Leather Boots and Shoes.
Claims use since Sept. 3, 1920.

Ser. No. 140,544. (CLASS 15. OILS AND GREASES.) RUSK OIL CO. OF PHILADELPHIA, PA., Philadelphia, Pa. Filed Dec. 2, 1920.

GLOBOLINE

Particular description of goods.—Motor-Lubricating Oil.
Claims use since Nov. 11, 1920.

Ser. No. 140,773. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) S. BAKAL & SON, New York, N. Y. Filed Dec. 8, 1920.

PIN WEIGHT

DRESS SHIELD

No claim is made to the exclusive use of the words "Pin Weight" and "Dress Shield" apart from the mark shown in the drawing.

Particular description of goods.—Dress-Shields.

Claims use since about November, 1920.

Ser. No. 141,167. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN GRAY & COMPANY, LIMITED, Glasgow, Scotland. Filed Dec. 16, 1920.



Particular description of goods.—Fruit Jams, Jellies, Preserves, and Marmalade.

Claims use since 1840.

Ser. No. 141,344. (CLASS 17. TOBACCO PRODUCTS.) AXTON-FISHER TOBACCO COMPANY, Louisville, Ky. Filed Dec. 21, 1920.

CLOWN

Particular description of goods.—Cigarettes.

Claims use since on or about Nov. 8, 1920.

Ser. No. 142,035. (CLASS 39. CLOTHING.) SOMERVELL BROTHERS LIMITED, Kendal, England. Filed Jan. 10, 1921.

K

Particular description of goods.—Boots and Shoes All Made of Leather.

Claims use since Apr. 1, 1921.

Ser. No. 142,363. (CLASS 37. PAPER AND STATIONERY.) JOHN W. FITZGERALD, Boston, Mass. Filed Jan. 17, 1921.

SALES · SALT · BOSTON · CLOTHING CO.

No claim is made to the word "Boston."

Particular description of goods.—Both Filing and Mailing Envelops, File-Folders, and File-Pockets.

Claims use since July 1, 1919.

Ser. No. 142,753. (CLASS 39. CLOTHING.) THE EPSTEIN-CHAS. DOUGLIS CO., Rochester, N. Y. Filed Jan. 25, 1921.



FINSBURY CLOTHES

No claim is made to the exclusive use of the words "Finsbury Clothes" except as is shown in the drawing.

Particular description of goods.—Men's and Young Men's Suits and Overcoats.

Claims use since about Dec. 31, 1920.

Ser. No. 143,104. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) ABE ROSENBLUM, Brooklyn, N. Y. Filed Feb. 2, 1921.

R

Particular description of goods.—Potatoes, Onions, Apples, Cabbages, Turnips, Beets, and Carrots in Their Natural State.

Claims use since two years last past.

Ser. No. 143,238. (CLASS 39. CLOTHING.) ABRAHAM ZWIBELSON, New York, N. Y. Filed Feb. 5, 1921.

Lovers Form

No claim is made to the exclusive use of the representation of the corset apart from the mark as shown on the drawing.

Particular description of goods.—Brassières and Corsets.

Claims use since Jan. 28, 1921.

Ser. No. 143,290. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE OLIVER-SHERWOOD CO., San Francisco, Calif. Filed Feb. 7, 1921.

CUTLESS BEARINGS

The word "Bearings" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Journal-Bearings for Rotating Machinery.

Claims use since Aug. 3, 1920.

Ser. No. 143,366. (CLASS 39. CLOTHING.) FORT SMITH GARMENT CO., Fort Smith, Ark. Filed Feb. 9, 1921.

THE FLYER



Particular description of goods.—Men's and Boys' Overalls, Overall-Coats, and Pants.

Claims use since May, 1911.

Ser. No. 143,480. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) BROOKLYN GALVANIZING & MFG. CO., INC., New York, N. Y. Filed Feb. 12, 1921.

GALBROOK

Particular description of goods.—Iron, Steel, and Alloy Sheets, Wire, Tin-Plate, Corrugated Metal Sheets for Roofing and other Purposes not Specially Formed, and Tool and Special Steels.

Claims use since Jan. 25, 1921.

Ser. No. 143,551. (CLASS 39. CLOTHING.) ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Feb. 14, 1921.

NOXALL

Particular description of goods.—Dress and Work Shirts, Overalls, Jumpers, Jackets, Coats, Vests, and Trousers, Including Such Special Articles as "Mackinaw" Coats and Duck, Moleskin, Corduroy, Blanket, and Sheepskin-Lined Coats and Vests and Leather Vests with and without Sleeves.

Claims use since November, 1884.

Ser. No. 143,807. (CLASS 39. CLOTHING.) THE CONVERSE RUBBER SHOE COMPANY, Malden, Mass. Filed Feb. 19, 1921.

CABOOSE

Particular description of goods.—Boots and Shoes Made of Rubber or Fabric and Rubber.

Claims use since Dec. 30, 1920.

Ser. No. 143,988. (CLASS 39. CLOTHING.) KOB & KAPLAN, New York, N. Y. Filed Feb. 24, 1921.

LiROCK

Particular description of goods.—Hosiery, Underdrawers, Undershirts, and Union-Suits for Men, Women, and Children, Constructed from Knitted and Textile Fabrics, and for Sweaters.

Claims use since July 1, 1919.

Ser. No. 144,462. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOHN S. LEWIS, Syracuse, N. Y. Filed Mar. 8, 1921.

E-Z-OFF

Particular description of goods.—Dish-Scraper.

Claims use since May 1, 1919.

Ser. No. 144,479. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THE WM. SCHLUDERBERG-T. J. KURDLE CO., Baltimore, Md. Filed Mar. 8, 1921.

ESS-KAY
REFINED
PURE LARD
SK

Particular description of goods.—Lards.
Claims use since Nov. 15, 1920.

Ser. No. 144,514. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) DILLE & MCGUIRA MFG. CO., Richmond, Ind. Filed Mar. 9, 1921.

KING

Particular description of goods.—Lawn-Mowers.
Claims use since 1900.

Ser. No. 144,651. (CLASS 39. CLOTHING.) UNITED STATES RUBBER COMPANY, New Brunswick, N. J., and New York, N. Y. Filed Mar. 11, 1921.

PYRAMID
BRAND

No claim is made to the word "Brand" apart from the mark as shown.
Particular description of goods.—Boots, Shoes, and Slippers.
Claims use since Jan. 21, 1921.

Ser. No. 144,700. (CLASS 39. CLOTHING.) WYMAN, PARTRIDGE & CO., Minneapolis, Minn. Filed Mar. 12, 1921.



Particular description of goods.—Men's Knit Underwear and Sweaters, Ladies', and Children's Knit Underwear and Sweaters, Union-Suits, and Vests, Hockey-Caps, and Scarfs.
Claims use since July, 1909.

Ser. No. 144,833. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OLSON RUG COMPANY, Chicago, Ill. Filed Mar. 16, 1921.

"From Our Looms To Your Rooms"

Particular description of goods.—Woven Rugs and Carpets.
Claims use since about Jan. 20, 1920.

Ser. No. 144,865. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) TONY LONG, Chicago, Ill. Filed Mar. 17, 1921.

Classo

Particular description of goods.—A Liquid Preparation for the Alleviation of Rheumatism.
Claims use since Feb. 1, 1921.

Ser. No. 145,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) H. B. FAGAN, Burlington, Iowa. Filed Mar. 21, 1921.



Particular description of goods.—Concentrated Extract of Malt Sugar Used for Food Purposes.
Claims use since Jan. 1, 1921.

Ser. No. 145,018. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HEIT MILLER LAU CO., Fort Wayne, Ind. Filed Mar. 21, 1921.



Particular description of goods.—Candy.
Claims use since October, 1912.

Ser. No. 145,052. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ANTI-CORROSION ENGINEERING CO., INC., New York, N. Y. Filed Mar. 22, 1921.

DEACTIVATOR

Particular description of goods.—Apparatus for Treating Water or other Liquids Either Chemically or Mechanically, or Both, to Render the Same Substantially Non-Corrosive.
Claims use since Feb. 1, 1921.

Ser. No. 145,299. (CLASS 39. CLOTHING.) CORNELIUS WEISS, INC., Brooklyn, N. Y. Filed Mar. 26, 1921.

BOB EVANS

Particular description of goods.—Boys' and Men's Hats.
Claims use since Feb. 10, 1921.

Ser. No. 145,400. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) HENNINGSEN PRODUCE CO., Butte, Mont. Filed Mar. 29, 1921. Under ten-year proviso.

Blanchard

Particular description of goods.—Butter, Eggs, Ice-Cream, Cheese, Canned Salmon, Evaporated Whole Milk, Box-Packed Dressed Poultry.
Claims use since 1889.

Ser. No. 145,470. (CLASS 48. MALT BEVERAGES, EXTRACTS AND LIQUORS.) OSCAR E. MAURER, San Francisco, Calif. Filed Mar. 30, 1921.



The lines on the drawing indicate the color red, no claim being made to the word "Brew" apart from the mark shown in the drawing.
Particular description of goods.—A Non-Alcoholic, Malt Beverage.
Claims use since July, 1918.

Ser. No. 145,507. (CLASS 39. CLOTHING.) GOTTLIEB BROS., New York, N. Y. Filed Mar. 31, 1921.



Particular description of goods.—Fur Garments.
Claims use since 1901.

Ser. No. 145,595. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SCIENTIFIC FARMING MACHINERY COMPANY, Minneapolis, Minn. Filed Apr. 1, 1921.

ONCE-OVER

Particular description of goods.—Tillers Comprising a Plow and a Soil-Disintegrator.
Claims use since on or about June 1, 1916.

Ser. No. 145,606. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) WALTER L. BOARDMAN, Blossom, Tex. Filed Apr. 2, 1921.

3 IN 1

Particular description of goods.—A Hand-Tool for Cleaning Spark-Plugs.
Claims use since Feb. 1, 1921.

Ser. No. 145,618. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE EDLIS BARBERS' SUPPLY CO., Pittsburgh, Pa. Filed Apr. 2, 1921.

Special № 715

Particular description of goods.—Razors.
Claims use since Dec. 15, 1904.

Ser. No. 145,654. (CLASS 39. CLOTHING.) SIMPLE SIMON MANUFACTURING COMPANY, Wilmington, Del., and Philadelphia, Pa. Filed Apr. 2, 1921.

SIMPLE



SIMON

Particular description of goods.—Children's Dresses and Rompers.
Claims use since Feb. 22, 1921.

Ser. No. 145,663. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WARD BAKING COMPANY, New York, N. Y. Filed Apr. 2, 1921.

GOLDEN RING

Particular description of goods.—Cake.
Claims use since Mar. 3, 1920.

Ser. No. 145,674. (CLASS 43. THREAD AND YARN.) DEXTER YARN COMPANY, Pawtucket, R. I. Filed Apr. 4, 1921.

DEXTER



Nusilk

The picture in the drawing being that of N. G. B. Dexter.
Particular description of goods.—Mercerized Mending-Cotton.
Claims use since May, 1905.

Ser. No. 145,833. (CLASS 39. CLOTHING.) IMPERIAL CHILDREN'S SHOE CORPORATION, Rochester, N. Y. Filed Apr. 7, 1921.

HAPPY TOZ

Particular description of goods.—Leather Shoes for Children.
Claims use since Feb. 1, 1921.

Ser. No. 145,863. (CLASS 39. CLOTHING.) HENRY WALLNER & SON, Hoboken, N. J. Filed Apr. 7, 1921.

Bessy Rose

Particular description of goods.—Linings for Tam-o'-Shanter Hats and Bonnets.
Claims use since Dec. 1, 1920.

Ser. No. 145,888. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FAR EAST PRODUCTS CO., Yonkers, N. Y. Filed Apr. 8, 1921.



The drawing is lined to indicate color. The representation of the maid, as shown in the accompanying drawing, is clothed in a red coat with blue and yellow striped collar and cuffs, green trousers with a yellow stripe, and red shoes with yellow soles, and is carrying a black fan with an orange stripe thereon and a yellow lantern with blue figures thereon.
Particular description of goods.—Face-Powders, Cold-Creams, Massage-Creams, Vanishing Creams, and Perfumes.
Claims use since Dec. 20, 1920.

Ser. No. 146,178. (CLASS 39. CLOTHING.) THE JOSEPH LAZARUS COMPANY, Cincinnati, Ohio. Filed Apr. 14, 1921.



Particular description of goods.—Ladies' Hats.
Claims use since 1905.

Ser. No. 146,254. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOSEPHINE M. DILLMEIER COMPANY, New York, N. Y. Filed Apr. 16, 1921.

UNEX

Particular description of goods.—Casserole-Holders of Base Metal.
Claims use since Jan. 17, 1921.

Ser. No. 146,255. (CLASS 39. CLOTHING.) DOYLE JUVENILE SHOE CO., Chicago, Ill. Filed Apr. 16, 1921.



Buddies



Particular description of goods.—Children's Leather and Fabric Shoes of All Kinds.
Claims use since Mar. 23, 1921.

Ser. No. 146,388. (CLASS 39. CLOTHING.) A. PHILLIPS & CO. INC., New York, N. Y. Filed Apr. 19, 1921.

Chummy SLIPPERS

The word "Slippers" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Slippers and Shoes of Felt and Combinations of Felt and Leather, Silk and Combinations of Silk and Leather, and Combinations of Silk, Felt, and Leather.
Claims use since Jan. 1, 1921.

Ser. No. 146,405. (CLASS 39. CLOTHING.) GEO. VANDERPORTEN, New York, N. Y. Filed Apr. 19, 1921.

Pedi-Grip

Particular description of goods.—Shoes of Leather.
Claims use since Jan. 1, 1921.

Ser. No. 146,454. (CLASS 39. CLOTHING.) THE MILLER RUBBER COMPANY, Akron, Ohio. Filed Apr. 20, 1921.

Marvelter

Particular description of goods.—Rubber Belts for Personal Wear.
Claims use since Mar. 14, 1921.

Ser. No. 146,507. (CLASS 39. CLOTHING.) WILLIAM HOLLINS & COMPANY, LIMITED, London and Mansfield, England. Filed Apr. 21, 1921.

RAMADA

Particular description of goods.—Men's and Boys' Vests, Pants, Socks, Combinations; Ladies' Vests, Combinations, Stockings, Knickers, Night-Dresses, Blouses, Sleeping-Suits; Children's Jerseys, Combinations, Vests, Socks, Bootees, Jackets.
Claims use since Oct. 20, 1910.

Ser. No. 146,515. (CLASS 39. CLOTHING.) BAREN, LEHRMAN & BERLER, INC., New York, N. Y. Filed Apr. 22, 1921.

FOR YOUNG MEN UP TO SIXTY

Particular description of goods.—Men's Overcoats, Suits, Vests, Trousers, Coats.
Claims use since Feb. 1, 1919.

Ser. No. 146,565. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) G. S. KOLAR LABORATORIES, Chicago, Ill. Filed Apr. 22, 1921.

DELNA

Particular description of goods.—Complexion-Meal, Nail-Polish, Antiseptic Oil, Brilliantine, Bandoline, Hair-Dressing, Depilatories, Skin-Lotions, Nail-Bleach, Nail-Paste, Nail-Whitener, Shampoo, Talcum Powder, Scalp-Ointment, Rouge, Skin-Astringent.
Claims use since October, 1916.

Ser. No. 146,629. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EMPIRE STAMPING TOOL & MFG. CO., St. Louis, Mo. Filed Apr. 23, 1921.

EMPIRE

Particular description of goods.—Wear-Plates for Shoes.
Claims use since about Oct. 1, 1917.

Ser. No. 146,699. (CLASS 39. CLOTHING.) THE DOMESTIC PRODUCTS CO., Dayton, Ohio. Filed Apr. 25, 1921.

Jolly Molly

Consists of the words "Jolly Molly."
Particular description of goods.—Dresses and Skirts.
Claims use since Feb. 11, 1921.

Ser. No. 146,706. (CLASS 39. CLOTHING.) HORACE H. HESS, Pine Grove, Pa. Filed Apr. 25, 1921.

TRIPLE HHH UNDERWEAR

No claim is made to the word "Underwear" apart from the mark shown in the drawing.
Particular description of goods.—Textile-Fabric Underwear Consisting of One and Two Piece Garments for Men, Women, and Children.
Claims use since Feb. 1, 1921.

Ser. No. 146,767. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Filed Apr. 26, 1921. Under ten-year proviso.

LEYNER

Particular description of goods.—Mining Machinery, Rock-Drills, Hammer-Drills, Drill-Sharpening Machines, Shank and Bit Punches, Pin-Pullers, Centering Devices, Drill-Rests, Shanking Devices, and Component Parts of and Repair Parts for All of the Above Devices.
Claims use since Sept. 30, 1893.

Ser. No. 146,833. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LANG BROS., INC., New York, N. Y. Filed Apr. 27, 1921.

PIERCE FABRICS

Consists of the word "Pierce," with an arrow in red running through the word. The exclusive right to the use of the word "Fabrics" is disclaimed apart from the mark shown on the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Mar. 15, 1921.

Ser. No. 146,885. (CLASS 39. CLOTHING.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Heels and Soles Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,892. (CLASS 39. CLOTHING.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Heels and Soles Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,899. (CLASS 39. CLOTHING.) THE FEDERAL RUBBER COMPANY, Cudahy, Wis. Filed Apr. 28, 1921.

FEDERAL

Particular description of goods.—Heels and Soles Made Wholly or Partly of Rubber.
Claims use since Jan. 1, 1910.

Ser. No. 146,919. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ARTHUR LAVAC, Cicero, Ill. Filed Apr. 28, 1921.

TINCTURINE
A NEW HAIR GROWER

Applicant disclaims the use of the words "A New Hair Grower" as shown on the drawing.
Particular description of goods.—Hair-Grower.
Claims use since Jan. 20, 1921.

Ser. No. 147,045. (CLASS 39. CLOTHING.) G. M. POIX, INC., Brooklyn, N. Y. Filed Apr. 30, 1921.



Particular description of goods.—Brassières.
Claims use since February, 1920.

Ser. No. 147,253. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) NOVIA CANDY CO., INC., Brooklyn, N. Y. Filed May 5, 1921.

Pegs

Particular description of goods.—Chocolates and Candies.
Claims use since Mar. 1, 1921.

Ser. No. 147,255. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE PETERS & HERRON CO., Columbus, Ohio. Filed May 5, 1921.

PYLENITT

Particular description of goods.—Knitted Fabrics in the Piece for Outside Wearing-Apparel, Textile Lap and Carriage Robes, and Textile Blankets.
Claims use since May 4, 1921.

Ser. No. 147,283. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) DAVIS-BOURNONVILLE COMPANY, New York, N. Y., and Jersey City, N. J. Filed May 6, 1921.

ATLAS

Particular description of goods.—Cast-Iron Welding Sticks or Rods.
Claims use since 1913.

Ser. No. 147,315. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE RINGER COMPANY, New York, N. Y. Filed May 6, 1921.

"Venida rules the waves"

Particular description of goods.—Hair-Nets.
Claims use since Jan. 30, 1918.

Ser. No. 147,329. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ACME FISHING TOOL COMPANY, Parkersburg, W. Va. Filed May 7, 1921.

"ACME" FISHING TOOL CO. PARKERSBURG W.VA.

No claim is made to the words "Parkersburg, W. Va." apart from the mark shown on the drawing.
Particular description of goods.—Oil-Well Drilling and Fishing Tools.
Claims use since July, 1900.

Ser. No. 147,333. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) BOUSMAN MANUFACTURING COMPANY, Grand Rapids, Mich. Filed May 7, 1921.

BOUMANCO

Particular description of goods.—Gasolene and Oil Stills.
Claims use since Aug. 21, 1919.

Ser. No. 147,393. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AIR-O-MIX CORPORATION, New York, N. Y. Filed May 9, 1921.

"WHIP-ALL"

Particular description of goods.—Stirring-Machines for Mixing or Aerating Liquids or Semisolids.
Claims use since Apr. 1, 1921.

Ser. No. 147,394. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE AIR-O-MIX CORPORATION, New York, N. Y. Filed May 9, 1921.

AIR-O-MIX

Particular description of goods.—Stirring-Machine for Mixing or Aerating Liquids or Semisolids.
Claims use since Feb. 1, 1921.

Ser. No. 147,406. (CLASS 38. PRINTS AND PUBLICATIONS.) CORONA TYPEWRITER COMPANY, INC., Groton, N. Y. Filed May 9, 1921.

Visualized Typing

Particular description of goods.—Instruction Books and Charts for Teaching Typewriting, Published from Time to Time.
Claims use since Apr. 21, 1921.

Ser. No. 147,417. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) DIRECT COFFEE MILLS, Texarkana, Ark. Filed May 9, 1921.

Skyscraper

Particular description of goods.—Coffee.
Claims use since September, 1913.

Ser. No. 147,467. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ISIDORO RANDAZZO, Kansas City, Mo. Filed May 9, 1921.

FRUTERBA

Particular description of goods.—Medicinal Preparation for Stomach, Liver, and Kidney Troubles.
Claims use since May 1, 1919.

Ser. No. 147,538. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) Mrs. FRANCIS THURMAN, Casper, Wyo. Filed May 10, 1921.



Particular description of goods.—Face-Powder, Rouge, Toilet Waters, Skin-Creams, and Lotions.
Claims use since Aug. 8, 1921.

Ser. No. 147,546. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) GILBERT BARRIS, Los Angeles, Calif. Filed May 11, 1921.



Particular description of goods.—Piston Pins and Valves of Internal-Combustion Engines.
Claims use since July 1, 1920.

Ser. No. 147,637. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ONEIDA COMMUNITY, LIMITED, Oneida, N. Y. Filed May 12, 1921.

O.C LUSTRA

Particular description of goods.—Table Flat-Ware, Plated and Nickel, Comprising Spoons, Forks, Knives, Ladles, Carvers, Game Shears, Sugar-Tongs, Servers, Food-Pushers, and Cheese-Scoops.
Claims use since Apr. 20, 1921.

Ser. No. 147,807. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) T. & T. DANDRUFF REMEDY COMPANY, East St. Louis, Ill. Filed May 16, 1921.

T&T

Particular description of goods.—Dandruff Remedy.
Claims use since Mar. 30, 1921.

Ser. No. 147,818. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE CINCINNATI ALUMINUM CASTING COMPANY, Cincinnati, Ohio. Filed May 17, 1921.

SHURFUT

Particular description of goods.—Aluminum Foot-Rests, Heel-Rests, Door-Mats, and Foot-Mats.
Claims use since Aug. 1, 1920.

Ser. No. 147,824. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) AUGUST ERLENGER, New York, N. Y. Filed May 17, 1921.

PROCELLENCE
PROCELLENCE

Particular description of goods.—Medicinal Preparation for Treatment of Cholelithiasis, Nephrolithiasis, Vesicalithiasis, Rheumatism, Gout, Arteriosclerosis, Uric Acid, Diabetic Mellitus, and Diabetic Insipidus.
Claims use since Mar. 23, 1921.

Ser. No. 147,896. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ARTHUR L. SMITH MOTORS, INC., Portland, Oreg. Filed May 18, 1921.



Consisting of a volcano in eruption shown within a circular field with the word "Hi-Powr" arched above the volcano. The word "Hi-Powr" is disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Manifolds, Fuel-Economizers for Hydrocarbon Internal-Combustion Motors.

Claims use since Jan. 1, 1921.

Ser. No. 147,926. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) KOLOMAN KOVACS, Duquesne, Pa. Filed May 19, 1921.

Royal Quality

No claim being made to the word "Quality" apart from the mark shown.

Particular description of goods.—Sweet Spirit Niter, Sweet Oil, Spirit Camphor; Spirit Ammonia, Aromatic; Spirit Turpentine for Medicinal Uses, Essence Peppermint for Medicinal Uses, Tincture Ginger for Medicinal Uses, Tincture Iodin, Tincture Arnica, Glycerin, Paregoric, Larkspur Lotion, Glycerin and Rose-Water, Camphorated Oil, Castor-Oil, Aromatic Cascara, Aromatic Castor-Oil, Alkaline Antiseptic Solution, White Mineral Oil for Medicinal Purposes, Bay-Rum, Witch-Hazel, Hoffmann's Drops, Compound Licorice Powder, Powdered Chalk, Mustard Powder for Medicinal Purposes, Sulfur, Sodium Phosphate, Epsom Salt, Rochelle Salt, Bicarbonate of Soda, Alum, Boric Acid.

Claims use since Nov. 5, 1920.

Ser. No. 147,984. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) G. PRUNIER & CIE., Paris, France. Filed May 20, 1921.

PHOSPHATINE

Particular description of goods.—Concentrated Food for Infants, Invalids, and Convalescents.

Claims use since July 12, 1900.

Ser. No. 148,038. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) THE SUPERIOR SHEET STEEL COMPANY, Louisville, Ohio. Filed May 21, 1921.



No claim is made to the words "Copper Laden Steel Sheets" apart from the mark shown.

Particular description of goods.—Rolled Steel Sheets Having a Copper Content.

Claims use since Apr. 22, 1921.

Ser. No. 148,099. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) VAUGHAN & BUSHNELL MANUFACTURING COMPANY, Chicago, Ill. Filed May 23, 1921.



The terms "Chicago" and "U. S. A." are disclaimed apart from the mark shown in the drawing.

Particular description of goods.—Ratchet-Braces, Non-Ratchet Braces, Breast-Drills, Hammers, Hatchets, Axes, Auger-Bits, Chuck-Bits, Machine-Punches, Belt-Punches, Nail-Sets, Rivet-Sets, Machinists' Chisels, Carpenters' Chisels, Saws, Planes, Pincers, Nippers, Hoof-Parers, Pliers, Wrenches, Screwdrivers, Star-Drills, Claw-Bars, Crate-Openers.

Claims use since 1913.

Ser. No. 148,121. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE BOYLE-DAYTON CO., Los Angeles, Calif. Filed May 24, 1921.



The lining expressing the color red. Trade-mark consists in the characters arranged in the circle and as shown in the drawing, no claim being made in this application for the other matter.

Particular description of goods.—Pumps and Compressors.

Claims use since Apr. 1, 1921.

Ser. No. 148,168. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) DWIGHT C. ROSE, Cambridge, Mass. Filed May 24, 1921.

VITAMINTS

Particular description of goods.—A Medicated Confection Useful in Stimulating the Process of Digestion.

Claims use since May 3, 1921.

Ser. No. 148,243. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) SAN ANTONIO MACHINE & SUPPLY COMPANY, San Antonio, Tex. Filed May 26, 1921.

"Krueger"

Consisting of the facsimile signature of the president of the company.

Particular description of goods.—Internal-Combustion Engines.

Claims use since Mar. 1, 1921.

Ser. No. 148,262. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) EXCELSIOR QUILTING COMPANY, New York, N. Y. Filed May 26, 1921. Under ten-year proviso.



Particular description of goods.—Quilted Mattress-Protectors, Table-Pads, Paddings, and Nursery-Cloth.

Claims use since about September, 1888.

Ser. No. 148,331. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE HUMASON MANUFACTURING COMPANY, Bristol, Conn. Filed May 27, 1921.



Particular description of goods.—Coil and Flat Springs and Screw-Machine Products Consisting of Set-Screws, Cap-Nuts, and Turned Knobs.

Claims use since October, 1919.

Ser. No. 148,394. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) JOHN R. MITCHELL, Brooklyn, N. Y. Filed May 28, 1921.

MITCHELL

Particular description of goods.—Soaps, Soap Powder, Dish-Washing Compound, Cleaning and Sweeping Compounds.
Claims use since about January, 1908.

Ser. No. 148,406. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE TIROS VALVE SYNDICATE, London, England. Filed May 28, 1921.

TIROS

Particular description of goods.—Combined Pressure and Vacuum Valves.
Claims use since May 1, 1916.

Ser. No. 148,443. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JIFFY-ANDY TOE PROTECTOR CO., Allentown, Pa. Filed May 31, 1921.

Jiffy-Andy

No claim being made to the representation of a toe protector on a shoe apart from the mark shown.
Particular description of goods.—Toe-Protectors.
Claims use since Apr. 25, 1921.

Ser. No. 148,616. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) THE WILLIAM PRYM COMPANY, LIMITED, Stolberg, Germany. Filed June 3, 1921.

555 DRUCKKNOPF

The word "Druckknopf" is disclaimed apart from the mark shown in the drawing.
Particular description of goods.—Snap-Fasteners.
Claims use since July 12, 1906.

Ser. No. 148,725. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ELECTRIC STEEL & FORGE COMPANY, Cleveland, Ohio. Filed June 6, 1921.

ESF

Particular description of goods.—Steel Bars, Plates, Shapes, and Steel Castings and Forgings.
Claims use since Jan. 1, 1919.

Ser. No. 148,761. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) ROCKFORD MALLEABLE IRON WORKS, Rockford, Ill. Filed June 6, 1921.



Particular description of goods.—Iron and Steel Castings and Forgings.
Claims use since June, 1916.

Ser. No. 148,763. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) JOHN P. REINIG, Buffalo, N. Y. Filed June 6, 1921.

O-U-T-

Particular description of goods.—Printed Game-Sheet Having Partial Squares to be Completed by Filling in the Missing Lines with a Pen or Pencil.
Claims use since about Apr. 5, 1921.

Ser. No. 148,828. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) JOSEPH R. ANDERSON, Louisville, Ky. Filed June 8, 1921.

PENDENNIS

Particular description of goods.—Blade Sharpening and Stropping Machines.
Claims use since Apr. 1, 1921.

Ser. No. 148,871. (CLASS 39. CLOTHING.) MADGE S. CARSON, Greenwich, Conn. Filed June 9, 1921.

MISTYLOOM

Particular description of goods.—Scarfs for Personal Wear.
Claims use since Sept. 1, 1920.

Ser. No. 149,013. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE MARIETTA PAINT & COLOR CO., Marietta, Ohio. Filed June 11, 1921.

MARIETTA

Particular description of goods.—Interior Floor-Paint, Porch and Deck Paint, Automobile Paint Enamels, Varnish, Wood-Finish, Ground Color, Opaque Enamel, Stains, and Mixed Paints.
Claims use since 1898.

Ser. No. 149,140. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) WILLIS J. MERCHANT, Oroville, Calif. Filed June 14, 1921.



Trade-mark is a true likeness of himself, and that he consents to the use of such likeness as a trade-mark for such purpose.

Particular description of goods.—Cleaner and Polisher for Cleaning and Polishing Pianos and All Kinds of Furniture.
Claims use since on or about Sept. 15, 1915.

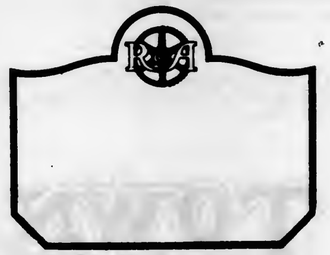
Ser. No. 149,141. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) C. H. MOHR AND COMPANY, Chicago, Ill. Filed June 14, 1921.

DERBY



Particular description of goods.—A Liquid Preparation for the Alleviation of Diseases of Horses—Namely, Distemper, Pink-Eye, Epizootic, Influenza, Catarrhal Fever, Shipping and Acclimating Fever, Gleet, and Heaves, and for a Powdered Preparation for Horses for the Prevention of Colic, Expellation of Worms, and the Alleviation of Derangement of the Digestive Organs; Also Acts as a Tonic.
Claims use since May 1, 1921.

Ser. No. 149,148. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) RICE & ADAMS CORPORATION, Buffalo, N. Y. Filed June 14, 1921.



Particular description of goods.—Bottle-Washers, Can-Washers, Biscuit-Tin Washers, Metal-Parts Washers, Dish-Washers, Battery-Jar Washers, Milk-Bottle Fillers, Milk-Bottle Cappers, Milk-Bottle Pasteurizers.
Claims use since Jan. 22, 1921.

Ser. No. 149,151. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAMSTAG & HILDER BROS., New York, N. Y. Filed June 14, 1921.

Fashionette

Particular description of goods.—Talcum Powder.
Claims use since June 2, 1921.

Ser. No. 149,159. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE WHITE TAR COMPANY, New York, N. Y. Filed June 14, 1921.

DIXIE

Particular description of goods.—Dyes.
Claims use since May 10, 1920.

Ser. No. 149,165. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) AMERICAN METAL POLISH CO., Somerville, Mass. Filed June 15, 1921. Under ten-year proviso.

PUTZ CREAM

Particular description of goods.—Metal-Polish.
Claims use since 1892.

Ser. No. 149,504. (CLASS 2. RECEPTACLES.) WORTENDYKE MANUFACTURING CO., Richmond, Va. Filed June 17, 1921.

TOWN TALK

Particular description of goods.—Paper Bags.
Claims use since May 1, 1921.

Ser. No. 149,667. (CLASS 2. RECEPTACLES.) YORK MILK MACHINERY COMPANY, York, Pa. Filed June 25, 1921.

MYM CO

Particular description of goods.—Bottle-Crates.
Claims use since June 12, 1921.

Ser. No. 149,690. (CLASS 38. PRINTS AND PUBLICATIONS.) THE ENGINEERING MAGAZINE COMPANY, New York, N. Y. Filed June 27, 1921.

Industry Illustrated

Particular description of goods.—Printed Publications Issued Monthly.
Claims use since June 1, 1921.

Ser. No. 149,734. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JULIUS D. BOOTH & SON, INC., New York, N. Y. Filed June 28, 1921.

TRICOTWIL

Particular description of goods.—Wool and Serge Goods in the Piece to be Manufactured into Dresses.
Claims use since Jan. 1, 1921.

Ser. No. 149,786. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) VULCAN CRUCIBLE STEEL CO., Aliquippa, Pa. Filed June 28, 1921.

WOLFRAM

Particular description of goods.—Steel.
Claims use since January, 1909.

Ser. No. 149,830. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) UNIVERSAL INDUSTRIAL CORPORATION, Hackensack, N. J. Filed June 29, 1921.

UNIVERSAL

Particular description of goods.—Hose-Clamps.
Claims use since September, 1917.

Ser. No. 149,831. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) UNIVERSAL INDUSTRIAL CORPORATION, Hackensack, N. J. Filed June 29, 1921.



Applicant disclaims the exclusive use of the words "Hose Clamp" and the picture of the hose clamp as shown apart from the mark as shown.
Particular description of goods.—Hose-Clamps.
Claims use since September, 1917.

Ser. No. 149,847. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) COLGATE & CO., Jersey City, N. J., and New York, N. Y. Filed June 30, 1921.

SOLID SUDS

The exclusive use of the word "Suds" being disclaimed.
Particular description of goods.—Soap Pellets.
Claims use since Dec. 31, 1917.

Ser. No. 149,872. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) THE SANITATION AND SUPPLY COMPANY, New York, N. Y. Filed June 30, 1921.

EZ-OFF

Particular description of goods.—A Liquid Compound for Cleaning Wood, Metal, Painted, and Similar Surfaces.
Claims use since May 24, 1921.

Ser. No. 149,926. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed July 1, 1921.

VICTRA

Particular description of goods.—Hair-Nets.
Claims use since May 31, 1921.

Ser. No. 149,983. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MAX STRAUSS, New York, N. Y. Filed July 2, 1921.

KIUSHA KREPE

Consisting of the words "Kiusha Krepe," no claim being made to the exclusive use of the word "Krepe" apart from the mark as shown on the drawing.
Particular description of goods.—Piece Goods—Namely, Silk, Woolen, and Cotton and Combinations of the Same.
Claims use since Apr. 19, 1921.

Ser. No. 150,001. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) THE BASSICK COMPANY, Bridgeport, Conn. Filed July 5, 1921.

The Neglected Inch

Particular description of goods.—Casters.
Claims use since May 13, 1921.

Ser. No. 150,448. (CLASS 2. RECEPTACLES.) HOAGUE-SPRAGUE CORP., Lynn, Mass. Filed July 16, 1921.

Daintie-Pack

The words "Daintie-Pack."
Particular description of goods.—Collapsible Cardboard Hat-Boxes.
Claims use since Mar. 1, 1921.

Ser. No. 150,513. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif. Filed July 18, 1921.

KAL KLOTH

No claim is made to the word "Kloth" apart from the mark shown on the drawing.
Particular description of goods.—White Cotton Piece Goods.
Claims use since June 1, 1919.

Ser. No. 150,552. (CLASS 38. PRINTS AND PUBLICATIONS.) NATIONAL SAFETY COUNCIL, Chicago, Ill. Filed July 18, 1921.



Particular description of goods.—Pamphlets, Circulars, and Printed Books.
Claims use since Dec. 1, 1913.

Ser. No. 150,605. (CLASS 38. PRINTS AND PUBLICATIONS.) FONTAINE FOX, New York, N. Y. Filed July 19, 1921.

Tomboy Taylor

Particular description of goods.—Series of Cartoons.
Claims use since Nov. 17, 1916

Ser. No. 150,606. (CLASS 38. PRINTS AND PUBLICATIONS.) FONTAINE FOX, New York, N. Y. Filed July 19, 1921.

The Terrible-Tempered Mr. Bang

Particular description of goods.—Series of Cartoons.
Claims use since Sept. 16, 1915.

Ser. No. 150,607. (CLASS 38. PRINTS AND PUBLICATIONS.) FONTAINE FOX, New York, N. Y. Filed July 19, 1921.

Aunt Eppie Hogg

Particular description of goods.—Series of Cartoons.
Claims use since Jan. 26, 1918.

Ser. No. 150,608. (CLASS 38. PRINTS AND PUBLICATIONS.) FONTAINE FOX, New York, N. Y. Filed July 19, 1921.

The Powerful Katrinka

Particular description of goods.—Series of Cartoons.
Claims use since Dec. 17, 1915.

Ser. No. 150,609. (CLASS 38. PRINTS AND PUBLICATIONS.) FONTAINE FOX, New York, N. Y. Filed July 19, 1921.

The Toonerville Trolley

Particular description of goods.—Series of Cartoons.
Claims use since Feb. 11, 1916.

Ser. No. 150,619. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) JUDKINS & MCCORMICK COMPANY, New York, N. Y. Filed July 19, 1921.

Satin Bagatelle

No claim is made to the exclusive use of the word "Satin" except in connection with the word "Bagatelle."
Particular description of goods.—Satin Cloth in Piece Goods.
Claims use since July 1, 1921.

Ser. No. 150,796. (CLASS 38. PRINTS AND PUBLICATIONS.) FRANKLIN P. ADAMS, New York, N. Y. Filed July 22, 1921.

The Conning Tower

Particular description of goods.—Newspaper-Column.
Claims use since January, 1911.

Ser. No. 150,803. (CLASS 38. PRINTS AND PUBLICATIONS.) THOMAS P. DOLAN, Pittsburgh, Pa. Filed July 22, 1921.

Exo

Particular description of goods.—Calendars.
Claims use since January, 1919.

Ser. No. 150,860. (CLASS 38. PRINTS AND PUBLICATIONS.) HUGHES & BRETTELL, New York, N. Y. Filed July 23, 1921.



Particular description of goods.—House Organs, Pamphlets, Folders, and Booklets.
Claims use since Oct. 14, 1920.

Ser. No. 150,929. (CLASS 38. PRINTS AND PUBLICATIONS.) LOUIS W. PEIRCE, Cleveland, Ohio. Filed July 25, 1921.



Particular description of goods.—Merchants' Trade-Discount Stamps.
Claims use since Dec. 1, 1920.

Ser. No. 151,021. (CLASS 38. PRINTS AND PUBLICATIONS.) READERS' PUBLISHING CORPORATION, New York, N. Y. Filed July 27, 1921.

Ace-High

Consisting of the word "Ace-High."
Particular description of goods.—Monthly Publications.
Claims use since July 1, 1921.

Ser. No. 151,065. (CLASS 2. RECEPTACLES.) SHEET METAL SPECIALTY COMPANY, Pittsburgh, Pa. Filed July 28, 1921.

SECURITY

Particular description of goods.—Metal Cans.
Claims use since June 4, 1921.

Ser. No. 151,255. (CLASS 2. RECEPTACLES.) A. BENNETT & Co., New York, N. Y. Filed Aug. 2, 1921.



Particular description of goods.—Crates for Fruits and Various Vegetables.
Claims use since Dec. 1, 1906.

Ser. No. 151,350. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE GEORGE W. BLABON COMPANY, Philadelphia, Pa. Filed Aug. 4, 1921.

PARALINO

Particular description of goods.—Linoleum.
Claims use since June 17, 1921.

Ser. No. 151,351. (CLASS 20. LINOLEUM AND OILED CLOTH.) THE GEORGE W. BLABON COMPANY, Philadelphia, Pa. Filed Aug. 4, 1921.



Particular description of goods.—Linoleum.
Claims use since June 17, 1921.

Ser. No. 151,519. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) NATIONAL TRADING COMPANY, Chicago, Ill. Filed Aug. 6, 1921.

FYNETTE

Particular description of goods.—Hair-Nets.
Claims use since July 15, 1921.

Ser. No. 151,559. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) PAGODA IMPORT COMPANY, INC., New York and Brooklyn, N. Y. Filed Aug. 8, 1921.

Matinee

Particular description of goods.—Hair-Nets.
Claims use since Nov. 15, 1920.

Ser. No. 151,607. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BURTON BROS. & CO., New York, N. Y. Filed Aug. 10, 1921.

"OUIJA"

"The Miracle Cloth"

Consisting of the words "Ouija The Miracle Cloth." No claim being made to the word "Cloth" apart from the mark as shown in the drawing.
Particular description of goods.—Cotton Piece Goods.
Claims use since Jan. 1, 1921.

Ser. No. 151,640. (CLASS 12. CONSTRUCTION MATERIALS.) STANDARD ASPHALT & REFINING CO., Chicago, Ill. Filed Aug. 10, 1921.

MUSHROOM TOP

Particular description of goods.—Expansion-Joint Fillers for Street-Pavements, Alleys, Roads, Reservoirs, and Building Construction.
Claims use since Mar. 31, 1916.

Ser. No. 151,702. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Aug. 12, 1921.

Kitseal

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since June 17, 1921.

Ser. No. 151,703. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Aug. 12, 1921.

Moirelaam

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since July 14, 1921.

Ser. No. 151,705. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) SIDNEY BLUMENTHAL & CO. INC., New York, N. Y. Filed Aug. 12, 1921.

Karakulam

Particular description of goods.—Pile Fabrics in the Piece.
Claims use since June 8, 1921.

Ser. No. 151,710. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) CLAFLINS INCORPORATED, New York, N. Y. Filed Aug. 12, 1921.

CLENDURE

Consisting of the word "Clendure."
Particular description of goods.—Cotton Piece Goods.
Claims use since Apr. 1, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905.]

SEPTEMBER 27, 1921.

146,940. A LIQUID FOR INTENSIFYING AND INCREASING THE EFFICIENCY OF PETROLEUM FUELS. AMANDUS W. ALMQUIST, Orange, N. J.
Filed October 21, 1920. Serial No. 138,622. PUBLISHED MAY 24, 1921.

146,941. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed November 11, 1920. Serial No. 139,499. PUBLISHED JUNE 21, 1921.

146,942. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed November 11, 1920. Serial No. 139,502. PUBLISHED JUNE 21, 1921.

146,943. ROPE, CORD, AND TWINE MANUFACTURED FROM VEGETABLE FIBER. AMERICAN MANUFACTURING COMPANY, Boston, Mass., and Brooklyn, N. Y.
Filed December 3, 1920. Serial No. 140,555. PUBLISHED JUNE 21, 1921.

146,944. COTTON PIECE GOODS. AMOSKEAG MANUFACTURING COMPANY, Manchester, N. H.
Filed January 22, 1921. Serial No. 142,600. PUBLISHED JUNE 14, 1921.

146,945. ROUGE. F. R. ARNOLD & CO., New York, N. Y.
Filed January 24, 1921. Serial No. 142,686. PUBLISHED JUNE 14, 1921.

146,946. CANDY. BAIRD BROTHERS CO., INC., Boston, Mass.
Filed March 1, 1921. Serial No. 144,175. PUBLISHED JUNE 14, 1921.

146,947. CANNED FRUITS AND CANNED VEGETABLES. H. A. BAKER, INC., Sumner, Wash.
Filed November 23, 1920. Serial No. 140,008. PUBLISHED JUNE 14, 1921.

146,948. TWINES. J. E. BARBOUR COMPANY, Paterson, N. J.
Filed November 24, 1920. Serial No. 140,093. PUBLISHED JUNE 21, 1921.

146,949. CANDIES, PARTICULARLY CHOCOLATES AND BONBONS. CARL A. BARRETT, Chicago, Ill.
Filed March 7, 1921. Serial No. 144,378. PUBLISHED JUNE 14, 1921.

146,950. A HAIR-TONIC AND A PREPARATION TO STRAIGHTEN AND GIVE LIFE TO OBSTINATE HAIR. Mrs. ALBERTA BATTS, Detroit, Mich.
Filed March 16, 1920. Serial No. 129,772. PUBLISHED MAY 31, 1921.

146,951. CERTAIN NAMED CHEMICAL PREPARATIONS. THOMAS BIGG LIMITED, London, England.
Filed October 25, 1920. Serial No. 138,789. PUBLISHED MAY 31, 1921.

146,952. CERTAIN NAMED CHEMICAL PREPARATIONS. THOMAS BIGG LIMITED, London, England.
Filed October 25, 1920. Serial No. 138,790. PUBLISHED MAY 31, 1921.

146,953. PHARMACEUTICAL AND TOILET PREPARATIONS. HENRY GEO. BITTERS, Chicago, Ill.
Filed August 25, 1919. Serial No. 121,967. PUBLISHED MAY 24, 1921.

146,954. GENERAL TONIC. W. B. BOND & CO., Newark, N. J.
Filed December 4, 1920. Serial No. 140,583. PUBLISHED MAY 31, 1921.

146,955. PERFUMES AND FACE-POWDERS. KITCHELL M. BOORMAN, New York, N. Y.
Filed January 22, 1921. Serial No. 142,579. PUBLISHED JUNE 14, 1921.

146,956. CANDY. E. J. BRACH & SONS, Chicago, Ill.
Filed March 8, 1921. Serial No. 144,446. PUBLISHED JUNE 14, 1921.

146,957. CONCENTRATED COFFEE ESSENCE. ANDERSON D. BROWN, Chicago, Ill.
Filed January 4, 1921. Serial No. 141,825. PUBLISHED JUNE 14, 1921.

146,958. INSECTICIDE. NICHOLAS H. BROWN, La Fargeville, N. Y.
Filed December 31, 1920. Serial No. 141,716. PUBLISHED MAY 31, 1921.

146,959. CANNED FISH AND CANNED BERRIES. BRYANT & COMPANY, Portland, Oreg.
Filed December 21, 1920. Serial No. 141,351. PUBLISHED JUNE 21, 1921.

146,960. CANDY. LOUIS G. BURNS, Seattle, Wash.
Filed December 15, 1920. Serial No. 141,097. PUBLISHED JUNE 14, 1921.

146,961. CERTAIN NAMED MEDICINAL PREPARATIONS. THE CALCO CHEMICAL COMPANY, Bound Brook, N. J.
Filed January 19, 1921. Serial No. 142,435. PUBLISHED JUNE 14, 1921.

146,962. A PATENTED FOOD INGREDIENT ADAPTED TO BE MIXED WITH FLOUR TO MAKE BREAD. CAMPBELL BAKING COMPANY, Kansas City, Mo., and Wilmington, Del.
Filed December 10, 1920. Serial No. 140,861. PUBLISHED JUNE 21, 1921.

146,963. COOKING-OILS PRODUCED FROM COTTONSEED. CAPITOL REFINING CO., South Washington, Va.
Filed December 20, 1920. Serial No. 141,294. PUBLISHED JUNE 14, 1921.

146,964. SALAD-OILS PRODUCED FROM COTTONSEED. CAPITOL REFINING CO., South Washington, Va.
Filed December 21, 1920. Serial No. 141,357. PUBLISHED JUNE 14, 1921.

146,965. LAXATIVE PILLS. CHARLES E. CESSNA, Chicago, Ill.
Filed January 8, 1921. Serial No. 141,966. PUBLISHED MAY 31, 1921.

146,966. BRILLIANTINE, FACE-POWDER, FACE-CREAM, TOILET WATER, PERFUME, SACHET AND TALCUM POWDER. CHERAMY, INCORPORATED, New York, N. Y.
Filed January 21, 1921. Serial No. 142,554. PUBLISHED JUNE 14, 1921.

146,967. CHOCOLATE CANDY CONTAINING YEAST. CHOCOLATE YEAST CO., INC., New York, N. Y.
Filed February 4, 1921. Serial No. 143,158. PUBLISHED JUNE 14, 1921.

146,968. A CERTAIN NAMED TONIC. THE CLYDE COLLINS COMPANY, Memphis, Tenn.
Filed January 19, 1921. Serial No. 142,434. PUBLISHED JUNE 14, 1921.

146,969. WATER. COE & HILL, Oklahoma, Okla.
Filed November 13, 1920. Serial No. 139,650. PUBLISHED JUNE 21, 1921.

146,970. NON-ALCOHOLIC, MALTLESS BEVERAGE. COLEMAN AND COMPANY, LIMITED, Norwich, England.
Filed December 11, 1920. Serial No. 140,918. PUBLISHED JUNE 21, 1921.

146,971. CAKES. THE COLONIAL BISCUIT COMPANY, Philadelphia, Pa.
Filed December 10, 1920. Serial No. 140,860. PUBLISHED JUNE 21, 1921.

146,972. COLD-CREAM, VANISHING CREAM, ROUGE, AND FOOT-RELIEF IN FORM OF A MASSAGE-CREAM. IDA R. COOK, St. Louis, Mo.
Filed October 1, 1920. Serial No. 137,805. PUBLISHED MAY 31, 1921.

146,973. CORN-SUGAR. CORN PRODUCTS REFINING CO., New York, N. Y.
Filed March 18, 1921. Serial No. 144,896. PUBLISHED JUNE 14, 1921.

146,974. PERFUMES, TOILET WATERS, FACE-POWDERS, SACHET-POWDERS, LOTION FOR SKIN AND HAIR, AND BRILLIANTINE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed October 27, 1920. Serial No. 138,837. PUBLISHED MAY 24, 1921.

146,975. PERFUMES, TOILET WATERS, AND BRILLIANTINE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed October 27, 1920. Serial No. 138,838. PUBLISHED MAY 24, 1921.

146,976. PERFUMES, TOILET WATERS, AND BRILLIANTINE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed October 27, 1920. Serial No. 138,839. PUBLISHED MAY 24, 1921.

146,977. PERFUMES, TOILET WATERS, AND BRILLIANTINE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed October 27, 1920. Serial No. 138,840. PUBLISHED MAY 24, 1921.

146,978. PERFUMES, TOILET WATERS, AND BRILLIANTINE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed October 27, 1920. Serial No. 138,841. PUBLISHED MAY 24, 1921.

146,979. PERFUMES, TOILET WATERS, AND BRILLIANTINE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed October 27, 1920. Serial No. 138,843. PUBLISHED MAY 24, 1921.

146,980. PERFUMES, TOILET WATERS, FACE-POWDERS, SACHET-POWDERS, LOTIONS FOR THE SKIN AND HAIR, AND BRILLIANTINE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed October 27, 1920. Serial No. 138,845. PUBLISHED MAY 24, 1921.

146,981. PERFUMES, TOILET WATERS, FACE-POWDERS, SACHET-POWDERS, LOTIONS FOR THE SKIN AND HAIR, AND BRILLIANTINE. FRANÇOIS JOSEPH DE SPOTURNO COTY, Suresnes, France.
Filed October 27, 1920. Serial No. 138,846. PUBLISHED MAY 24, 1921.

146,982. CANDY KISSES. DILLING & COMPANY, Indianapolis, Ind.
Filed December 16, 1920. Serial No. 141,159. PUBLISHED JUNE 14, 1921.

146,983. A REMEDY FOR CONSTIPATION. SHEPHERD DRAIN, M. D., Baltimore, Md.
Filed December 20, 1920. Serial No. 141,334. PUBLISHED MAY 31, 1921.

146,984. MEDICINE FOR CONSTIPATION, FEVER, RESTLESSNESS, SLEEPLESSNESS, DIARRHEA, VOMITING, AND OTHER SIMILAR AILMENTS. THE DUSCO CO., Buffalo, N. Y.
Filed May 17, 1920. Serial No. 132,516. PUBLISHED MAY 31, 1921.

146,985. A MEDICINE FOR THE TREATMENT OF THE KIDNEYS AND BLADDER. Mrs. K. G. ELLIS, Beaumont, Tex.
Filed December 17, 1920. Serial No. 141,219. PUBLISHED MAY 31, 1921.

146,986. FLAVORING-MATTER USED IN THE PREPARATION OF PASTRIES, JELLIES, CUSTARDS, AND ICE-CREAMS. ABRAHAM FINKENSTEIN, Omaha, Nebr.
Filed December 6, 1920. Serial No. 140,639. PUBLISHED JUNE 21, 1921.

146,987. DECHLORINATED OILS, WITH OR WITHOUT RESIN ADDITIONS. HENRY A. GARDNER, Washington, D. C.
Filed August 31, 1920. Serial No. 136,678. PUBLISHED MAY 31, 1921.

146,988. FRESH DECIDUOUS FRUITS. LLOYD GARRETSON CO., Yakima, Wash.
Filed November 6, 1920. Serial No. 139,290. PUBLISHED JUNE 14, 1921.

146,989. CANNED, PICKLED, OR DRIED FISH. GOWAN-LENNING-BROWN CO., Duluth, Minn.
Filed March 24, 1921. Serial No. 145,163. PUBLISHED JUNE 14, 1921.

146,990. ANTISEPTICS. MARGARET JANE GRIFFITH, Wallasey, England.
Filed September 14, 1920. Serial No. 137,173. PUBLISHED MAY 24, 1921.

146,991. A MEDICINAL PREPARATION FOR THE TREATMENT OF INFANTILE TROUBLES—VIZ., COLIC AND TEETHING. Dr. M. F. GROVES SON & CO., Philadelphia, Pa.
Filed October 15, 1920. Serial No. 138,317. PUBLISHED MAY 24, 1921.

146,992. A CERTAIN NAMED MEDICINAL PREPARATION. HALL & RUCKEL, New York, N. Y.
Filed October 20, 1920. Serial No. 138,569. PUBLISHED MAY 24, 1921.

146,993. A PREPARATION FOR USE IN THE TREATMENT OF STOMACH TROUBLES. HALL & RUCKEL, New York, N. Y.
Filed October 20, 1920. Serial No. 138,571. PUBLISHED MAY 24, 1921.

146,994. CANDIES. WALTER T. HALL & CO., Ottumwa, Iowa.
Filed March 18, 1921. Serial No. 144,910. PUBLISHED JUNE 14, 1921.

146,995. GRAPEFRUIT PASTE. JOHN HARITOPOL, Tampa, Fla.
Filed March 9, 1921. Serial No. 144,523. PUBLISHED JUNE 14, 1921.

146,996. CANDY. HELM CANDY CO., Lancaster, Pa.
Filed March 1, 1921. Serial No. 144,183. PUBLISHED JUNE 14, 1921.

146,997. INSECTICIDE. HEYERS & VANRIPER, Bloomfield, N. J.
Filed November 27, 1920. Serial No. 140,328. PUBLISHED MAY 31, 1921.

146,998. PREPARATION OF AN OILY NATURE FOR TREATING TEXTILE FABRICS. E. F. HOUGHTON & CO., Philadelphia, Pa.
Filed November 18, 1920. Serial No. 139,835½. PUBLISHED MAY 31, 1921.

146,999. CANDY. HOWARD H. HOYT CANDY CO., Chicago, Ill.
Filed March 7, 1921. Serial No. 144,394. PUBLISHED JUNE 14, 1921.

147,000. COMMODITY FOR REMOVING DYE FROM HAIR. HYMAN & OPPENHEIM, New York, N. Y.
Filed October 21, 1920. Serial No. 138,639. PUBLISHED MAY 24, 1921.

147,001. CHEWING-GUM. THE INDIA COMPANY, Newark, N. J.
Filed March 8, 1921. Serial No. 144,457. PUBLISHED JUNE 14, 1921.

147,002. POULTRY FEED. JOSEY MILLER CO., Beaumont, Tex.
Filed December 1, 1920. Serial No. 140,496. PUBLISHED JUNE 21, 1921.

147,003. TOOTH-PASTE. KAFFIR CHEMICAL LABORATORIES, Omaha, Nebr.
Filed December 2, 1920. Serial No. 140,533. PUBLISHED MAY 31, 1921.

147,004. CASTER-OIL. SPENCER KELLOGG & SONS, INC., Buffalo, N. Y.
Filed July 30, 1920. Serial No. 135,603. PUBLISHED MAY 24, 1921.

147,005. CERTAIN NAMED TOILET PREPARATIONS. LUCRETIA BENTLEY KERLIN, Chester, Pa.
Filed December 13, 1920. Serial No. 141,001. PUBLISHED MAY 31, 1921.

147,006. A GENERAL TONIC MADE FROM ROOT, HERB, AND BERRY EXTRACT. WILLIAM F. KUHLBACH, Fort Wayne, Ind.
Filed November 27, 1920. Serial No. 140,335. PUBLISHED MAY 31, 1921.

147,007. A TALCUM POWDER, FACIAL CREAM, FACE-POWDER, TALC, AND A TISSUE-BUILDER. (MASSAGE-CREAM.) LADY CHRISTABEL COMPANY, Norfolk, Va.
Filed August 4, 1919. Serial No. 121,247. PUBLISHED MAY 24, 1921.

147,008. BARLEY-MALT EXTRACT. G. LOEWUS & CO., Jersey City, N. J.
Filed January 12, 1921. Serial No. 142,153. PUBLISHED JUNE 21, 1921.

147,009. GENERAL TONIC. DONATO MADDALONI, Plainfield, N. J.
Filed November 18, 1920. Serial No. 139,807. PUBLISHED MAY 31, 1921.

147,010. MEDICINAL FOOD TONIC. THE MAZOMUL COMPANY, Scranton, Pa.
Filed January 12, 1921. Serial No. 142,156. PUBLISHED MAY 31, 1921.

147,011. POPCORN AND NUT CONFECTIONERY. SAMUEL R. MERCER, Seattle, Wash.
Filed March 10, 1921. Serial No. 144,581. PUBLISHED JUNE 14, 1921.

147,012. CERTAIN NAMED MEDICINES, CHEMICALS, AND PHARMACEUTICAL PREPARATIONS. MEYER BROTHERS DRUG COMPANY, St. Louis, Mo.
Filed October 14, 1920. Serial No. 138,291. PUBLISHED MAY 31, 1921.

147,013. LIVE POULTRY. M. C. PETERS MILL CO., Omaha, Nebr.
Filed March 23, 1921. Serial No. 145,124. PUBLISHED JUNE 14, 1921.

147,014. CERTAIN NAMED MEDICINAL AND TOILET PREPARATIONS. J. JOHNSTON MOORE, Montgomery, Ala.
Filed December 22, 1919. Serial No. 126,329. PUBLISHED MAY 24, 1921.

147,015. OINTMENT. THE MOTHER'S REMEDIES COMPANY, Chicago, Ill.
Filed October 11, 1920. Serial No. 138,172. PUBLISHED MAY 31, 1921.

147,016. FULLING AND SCOURING OIL. U. S. OIL & SUPPLY CO., Providence, R. I.
Filed December 28, 1920. Serial No. 141,612. PUBLISHED MAY 31, 1921.

147,017. CERTAIN NAMED MEDICINAL PREPARATIONS. A. A. PEARSON, Greensboro, Ga.
Filed January 19, 1921. Serial No. 142,449. PUBLISHED JUNE 14, 1921.

147,018. ALKALINE ANTISEPTIC, TONIC LAXATIVE, AND NERVE-TONIC. PHYSICIAN'S DRUG MANUFACTURING ASSOCIATION, Wilmington, Del., and Springfield, Mass.
Filed January 22, 1921. Serial No. 142,668. PUBLISHED JUNE 14, 1921.

147,019. GENERAL TONIC. WILLIAM S. PICKERING, Lynn, Mass.
Filed March 28, 1919. Serial No. 116,995. PUBLISHED MAY 24, 1921.

147,020. HAIR-TONIC. CLARISSA LIZZIE RILEY, Canton, Miss.
Filed December 10, 1920. Serial No. 140,901. PUBLISHED MAY 31, 1921.

147,021. A PREPARATION FOR THE TREATMENT OF TIRED FEET, RHEUMATISM, AND NERVOUS PAINS. RIVEROYLL & GUZMAN COMPANY, San Antonio, Tex.
Filed October 20, 1920. Serial No. 138,592. PUBLISHED MAY 24, 1921.

147,022. FACE-POWDERS, FACE-CREAMS, FACE-POWDER COMPACTS, AND PERFUMES. JUSTO J. RODRIGUEZ, Scranton, Pa.
Filed December 16, 1920. Serial No. 141,188. PUBLISHED MAY 31, 1921.

147,023. SPANISH PAPRIKA. VALENTIN RODRIGUEZ, New York, N. Y.
Filed March 25, 1921. Serial No. 145,236. PUBLISHED JUNE 14, 1921.

147,024. A CHEMICAL PREPARATION FOR REMOVING RUST. THE RUSTICIDE COMPANY, Cleveland, Ohio.
Filed December 16, 1920. Serial No. 141,190. PUBLISHED MAY 31, 1921.

147,025. TOILET WATERS, PERFUMES, MASSAGE-CREAMS, AND SHAMPOO PREPARATIONS. ABRAHAM SALIKOF, Philadelphia, Pa.
Filed November 17, 1920. Serial No. 139,760. PUBLISHED MAY 31, 1921.

147,026. DISINFECTANT, INSECTICIDE, AND DEODORIZER. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,424. PUBLISHED JUNE 14, 1921.

147,027. DISINFECTANT AND INSECTICIDE. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,425. PUBLISHED JUNE 14, 1921.

147,028. GARGLE AND NASAL SPRAY. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,427. PUBLISHED JUNE 14, 1921.

147,029. A CERTAIN NAMED MEDICINAL PREPARATION. SAN ANTONIO DRUG CO., San Antonio, Tex.
Filed January 18, 1921. Serial No. 142,428. PUBLISHED JUNE 14, 1921.

147,030. CERTAIN NAMED TOILET AND PHARMACEUTICAL PREPARATIONS. SANITOL CHEMICAL LABORATORY CO., St. Louis, Mo.
Filed November 23, 1920. Serial No. 140,071. PUBLISHED MAY 31, 1921.

147,031. A CERTAIN NAMED GERMICIDAL PREPARATION. THE SCALP GERMICIDE COMPANY, Youngstown, Ohio.
Filed January 19, 1921. Serial No. 142,455. PUBLISHED JUNE 14, 1921.

147,032. A GENERAL TONIC. SCRANTON DISTRIBUTING AND MANUFACTURING COMPANY, Scranton, Pa.
Filed October 29, 1920. Serial No. 138,964. PUBLISHED MAY 24, 1921.

147,033. CANDIES. SEARS, ROEBUCK AND COMPANY, Chicago, Ill.
Filed October 30, 1920. Serial No. 139,006. PUBLISHED JUNE 14, 1921.

147,034. MEDICINE FOR THE BLOOD. W. F. SEVERA Co., Cedar Rapids, Iowa.
Filed January 12, 1921. Serial No. 142,174. PUBLISHED MAY 31, 1921.

147,035. CANNED FRUITS, CANNED FRUIT SALAD, CANNED VEGETABLES, AND DRIED FRUITS. SMITH-FRANK PACKING CO., Sacramento, Calif.
Filed December 30, 1920. Serial No. 141,698. PUBLISHED JUNE 14, 1921.

147,036. COUGH-SYRUP. SMITH AND HARRISON, Washington, D. C.
Filed January 12, 1921. Serial No. 142,169. PUBLISHED MAY 31, 1921.

147,037. WHEAT-FLOUR. SPARKS MILLING COMPANY, Terre Haute, Ind.
Filed November 10, 1920. Serial No. 139,479. PUBLISHED JUNE 21, 1921.

147,038. A GENERAL TONIC. STRANTRA COMPANY, New York, N. Y.
Filed September 22, 1920. Serial No. 137,502. PUBLISHED MAY 24, 1921.

147,039. CORN-SALVE. DAVID THALL, Manchester, N. H.
Filed September 15, 1920. Serial No. 137,246. PUBLISHED MAY 24, 1921.

147,040. CERTAIN NAMED FOODS. THE TWITCHELL-CHAMPLIN COMPANY, Portland, Me., and Boston, Mass.
Filed December 17, 1920. Serial No. 141,202. PUBLISHED JUNE 21, 1921.

147,041. CREAM TARTAR, BAKING-SODA, SULFUR, AND EPSOM SALTS. THE TWITCHELL-CHAMPLIN COMPANY, Portland, Me., and Boston, Mass.
Filed December 17, 1920. Serial No. 141,203. PUBLISHED MAY 31, 1921.

147,042. A CERTAIN NAMED LINIMENT. WEIGHTMAN CHEMICAL COMPANY, Greensburg, Pa.
Filed August 3, 1920. Serial No. 135,773. PUBLISHED MAY 31, 1921.

147,043. CANDIES. STEPHEN F. WHITMAN & SON, INC., Philadelphia, Pa.
Filed February 15, 1921. Serial No. 143,623. PUBLISHED JUNE 14, 1921.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF MARCH 19, 1920, SEC. 1 (b)].

SEPTEMBER 27, 1921.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION.

147,044. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) D. AUERBACH & SONS, New York, N. Y. Filed Apr. 29, 1921. Serial No. 146,946.

"Candy Headquarters"

Particular description of goods.—Candy.
Claims use since Jan. 1, 1916.

147,045. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921. Serial No. 148,205.

SELECT

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Detached Waterproof Wagon-Covers.
Claims use since 1919.

147,046. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921. Serial No. 148,206.

EXTRA

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Detached Waterproof Wagon-Covers.
Claims use since 1910.

147,047. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921. Serial No. 148,207.

SUPERIOR

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Detached Waterproof Wagon-Covers.
Claims use since 1910.

147,048. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921. Serial No. 148,208.

CLIFTON

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Detached Waterproof Wagon-Covers.
Claims use since 1910.

147,049. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921. Serial No. 148,209.

STANDARD

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Detached Waterproof Wagon-Covers.
Claims use since 1910.

147,050. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921. Serial No. 148,210.

RELIABLE

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Detached Waterproof Wagon-Covers.
Claims use since 1919.

147,051. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) CLIFTON MFG. COMPANY, Waco, Tex. Filed May 25, 1921. Serial No. 148,212.

REGULAR

Particular description of goods.—Tents, Awnings, Paulins, Tarpaulins, and Detached Waterproof Wagon-Covers.
Claims use since 1910.

147,052. (CLASS 33. GLASSWARE.) CORNING GLASS WORKS, Corning, N. Y. Filed Dec. 20, 1920. Serial No. 141,292.



The seal is printed in gold, and the body of the letters forming the word "Pyrex" in red.
Particular description of goods.—Glass.
Claims use since about Jan. 1, 1916.

147,053. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) DEVOE & RAYNOLDS CO. INC., New York, N. Y. Filed Dec. 11, 1920. Serial No. 140,931.

DEVOE
MOTTLETONE

Particular description of goods.—Paste and Ready-Mixed Paints and Wall-Finishes—Namely, Cold-Water Paints.
Claims use since December, 1919.

147,054. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WILLIAM C. GARWOOD, Seattle, Wash. Filed Jan. 26, 1921. Serial No. 142,785.

Curiously Good

Particular description of goods.—Candy.
Claims use since Sept. 20, 1915.

147,055. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) HOOD RIVER APPLE VINEGAR CO., Hood River, Oreg. Filed Aug. 3, 1921. Serial No. 151,818.

HOOD RIVER

Particular description of goods.—Cider and Carbonated Beverages.
Claims use since November, 1916.

147,056. (CLASS 12. CONSTRUCTION MATERIALS.) THE HYDREX CORPORATION, New York, N. Y.; Rahway, N. J.; Chicago, Ill.; Washington, D. C., and various other places. Filed May 6, 1921. Serial No. 147,291.

THE MEMBRANE METHOD

Particular description of goods.—Certain Named Construction Materials.
Claims use since Mar. 15, 1906.

147,057. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) P. M. KELLY, Dalhart, Tex. Filed Dec. 4, 1920. Serial No. 140,599.

KELLY BROS.

Particular description of goods.—Spurs and Bits.
Claims use since Jan. 1, 1912.

147,058. (CLASS 2. RECEPTACLES.) WILLIAM F. LUICK, Milwaukee, Wis. Filed Sept. 27, 1920. Serial No. 137,663.

TAG-BAK

Particular description of goods.—Shipping-Containers for Ice-Cream, Ices, and Frozen Custard.
Claims use since June 21, 1920.

147,059. (CLASS 2. RECEPTACLES.) NEWARK TORTOISE SHELL NOVELTY CO., Newark, N. J. Filed July 28, 1920. Serial No. 135,525.

LA PARISIENNE

Particular description of goods.—Hair-Receivers, Bottle-Holders, Salve-Jars, Pin-Boxes, and Pin-Trays.
Claims use since Jan. 1, 1920.

147,060. (CLASS 3. BAGGAGE, HORSE EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE PERKINS-CAMPBELL COMPANY, Cincinnati, Ohio. Filed Feb. 28, 1921. Serial No. 144,147.

Campbell

Particular description of goods.—Saddles, Collars, and Harness Parts.
Claims use since first part of January, 1916.

147,061. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) U. S. SPECIALTY MFG. CO., Somerville, Mass. Filed Jan. 31, 1921. Serial No. 143,018.

RE-NU

Particular description of goods.—Dry-Cleaning Preparation in the Form of Stick or Pencil for Leather and Fabric.
Claims use since March, 1912.

147,062. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Serial No. 151,387.

DAKOTA

Particular description of goods.—Cotton-Batting.
Claims use since Dec. 20, 1898.

147,063. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Serial No. 151,388.

LUZON

Particular description of goods.—Cotton-Batting.
Claims use since Feb. 23, 1900.

147,064. (CLASS 1. RAW OR PARTLY-PREPARED MATERIALS.) THE STEARNS & FOSTER COMPANY, Lockland, Ohio. Filed Aug. 4, 1921. Serial No. 151,409.

YUKON

Particular description of goods.—Cotton-Batting.
Claims use since Dec. 20, 1898.

147,065. (CLASS 45. BEVERAGES, NON-ALCOHOLIC.) THE TISCO COMPANY, Chicago, Ill. Filed Nov. 5, 1920. Serial No. 139,234.

EMERALD ISLE

Particular description of goods.—A Non-Alcoholic Beverage.
Claims use since 1915.

147,066. (CLASS 38. PRINTS AND PUBLICATIONS.) VANITY FAIR STUDIOS, INC., Philadelphia, Pa. Filed Apr. 20, 1920. Serial No. 131,414.

"Vanity Fair"

Consisting of the words "Vanity Fair."
Particular description of goods.—Photographs.
Claims use since Dec. 1, 1919.

147,067. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) WHITTEMORE BROTHERS CORPORATION, Cambridge, Mass. Filed Apr. 19, 1920 Serial No. 131,366.

Whittemore's

Particular description of goods.—Dressing and Cleaners for Articles Made of Leather and Fabric.
Claims use since Oct. 22, 1884.

DECISIONS

OF THE

COMMISSIONER OF PATENTS

AND OF

UNITED STATES COURTS IN PATENT CASES.

COMMISSIONER'S DECISIONS.

P. BEIERSDORF & Co. *v.* LEHN & FINK, INC.

Decided August 30, 1921.

1. TRADE-MARK—OPPOSITION—SPELLED-OUT INITIALS, (NOT MERELY A NAME.)

The mark "Pebeco," made up of the initials of opposer P. B. Co., *Held* that this word made from spelled-out initials is not merely the name of the opposer within the ruling of the case of *Simplex Electric Heating Co.* v. *Ramey Co.*

2. SAME—SAME—REREGISTRATION.

Where an applicant for reregistration obtained title to a seized trade-mark by purchase from the Alien Property Custodian, *Held* there is no authority for reregistration merely because there has been a change in ownership.

3. SAME—SAME—POINTS NOT RAISED BY NOTICE OF OPPOSITION MAY BE CONSIDERED.

Where the question of the right to reregister a mark because secured by assignment is not raised in the notice of opposition, *Held* that there is justification for passing upon this question.

APPEAL from Examiner of Interferences.

TRADE-MARK FOR TOOTH-PASTE.

Messrs. Briesen & Sohrenk for P. Beiersdorf & Co.

Messrs. Emery, Varney, Blair & Hoguet for Lehn & Fink, Inc.

FENNING, *Acting Commissioner:*

This is an appeal from the decision of the Examiner of Interferences dismissing an opposition brought by P. Beiersdorf & Co. against an application of Lehn & Fink for registration of "Pebeco" as a trade-mark for tooth paste, which the application says—

> has been heretofore registered by P. Beiersdorf & Co. of Hamburg, Germany, under date of April 2, 1907, No. 61,678, which said registration is now owned by the undersigned.

The notice of opposition sets up title to the trade mark and the registration in opposer and alleges that Lehn & Fink have been the agent of the opposer.

The answer alleges, among other things, that in March, 1919, the Alien Property Custodian, acting under the provisions of the Trading with the Enemy Act, seized the trade-mark and the business of opposer in the United States appurtenant to said trade-mark by an instrument duly recorded in the Patent Office which, under article 7, sub section c, of the Trading with the Enemy Act, has the same force and effect as a duly-executed assignment to the Alien Property Custodian. Thereafter in April, 1919, said trade mark and the business of opposer in the United States appurtenant thereto were sold by the Alien Property Custodian to applicant and an assignment in writing recorded in the Patent Office, wherefor the applicant became owner of the trade-mark and the business in the United States appurtenant thereto of the opposer. The case was set down on motion under equity rule 29 to test the sufficiency of these allegations in the answer.

For the purposes of this case opposer admits that the seizure was legal and the sale was properly made and consummated. It is urged, however, that applicant is not entitled to reregister the mark in its own name for the reason that such registration may injure the reputation of opposer. It is stated that opposer has registered the mark in practically every country that has a trade mark law; that opposer's business is international, and that visitors to the United States will be deceived into purchasing applicant's goods in the belief that they are purchasing the same goods as opposer sells under the mark in their home countries. This, and the other arguments depending thereon are not sufficient to support the opposition. In *Imperial Cotto Sales Co.* v. *The N. K. Fairbanks Co.*, (284 O. G., 961.) the court of appeals has indicated that the redress accorded in opposition proceedings rests fundamentally upon the right of a person to be protected in the reputation and good-will of his business. The assignment having been made, it would seem that the entire reputation and good-will of the business in the United States rests with applicant here, and we should not be concerned with fine spun theories of putative damage to opposer's business or good-will in other parts of the world. If such damage arises, it will be caused, not by the registration now of the trade-mark, but by the transfer of the trade-mark and the business in the United States.

It is suggested that the mark is made up of the initials of opposer thus: "P B Co" and consequently the mark should not be registered to applicant under the holding in *Simplex Electric Heating Co.* v. *The Ramey Company*, (243 O. G., 793; 1917, C. D., 197; 46 App. D. C., 400.) This seems to be sufficiently met by the suggestion that the word

made from spelled out initials is not the name of opposer and that applicant is here claiming the mark through a transfer of opposer's business.

Opposer argues that applicant has changed the composition of the tooth-paste and so has changed the goods from what the mark originally indicated to the detriment of the international reputation of "Pebeco," but this is not pleaded or proven, and so need not be considered.

These matters, however, become of little moment, as opposer urges that—

under the existing Beiersdorf United States registration and the assignment thereof by the Alien Property Custodian, Lehn & Fink are vested with every right that is afforded by the trade-mark law of the United States. There is not a single provision of that law the benefits of which would be denied to Lehn & Fink, assuming the assignment to be valid, merely because Lehn & Fink's title was acquired by assignment rather than founded on a registration taken out by Lehn & Fink

and further that—

there is no authority, however, which authorizes such re-registration merely as a matter of whim or desire or where no good or sufficient reasons are shown to justify the same.

Applicant points out that this issue is not raised by the notice of opposition. It would seem, however, justified by *in re Herbst* (1909, C. D., 333; 32 App. D. C., 565) and *Schierling* v. *Schulze Baking Co.*, (240 O. G., 642; 46 App. D. C., 50.) These cases seem to meet the contention of applicant that the rights of the public have nothing to do with opposition proceedings.

Ex parte Shinola Company (177 O. G., 524) is cited as authority for the reregistration of the trade-mark by the applicant. That case indicates that such reregistration may occur "where good and sufficient reasons are shown to justify the same." The reasoning there seems to be based on the theory that in order to obtain trade-mark registration in foreign countries, such reregistration was necessary. Applicant has not cited and I am unable to find any single country of which this is true, and, moreover, in the present case it seems clear that Beiersdorf has the mark already registered throughout the world and applicant's right is limited to the United States.

Applicant intimates an assignee of a trade-mark has the absolute right to reregister the same, notwithstanding the guarded statement in the Shinola case. Applicant in its brief, however, urges reasons for its reregistration. It is more convenient to prove title if a suit should be necessary if the mark is registered in its own name. This is too trivial to outweigh the corresponding inconvenience to the public of having two co-existing registrations for the same mark. Applicant urges its desire to file copies of its registration with the collectors of customs to exclude goods made by opposer or some other and bearing the trade-mark in question. It seems, however, that this can be accomplished by filing in the Treasury Department the existing registration, together with the transfer thereof. Applicant further alleges that it "does not know whether the 1907 registration is valid." It would seem, however, that applicant must be fairly satisfied of this fact, since the annual report of the Federal Trade Commission for the year ending June 30, 1920, indicates that applicant had paid a royalty of $800,000 a year and on the purchase of the mark, paid $1,000,000. Applicant might have applied for cancelation under section 13 of the statute.

I am unable, however, to find in the trade-mark statutes any authority for reregistering a trade-mark merely because there has been a change in ownership. Section 12 of the act of 1905 provides that the certificate shall remain in force for twenty years. Section 10 provides for the assignment of a registered mark. Section 12 provides for the renewal of a certificate of registration upon request of the registrant—

or transferees of record in the Patent Office, and such request may be made at any time *not more than six months* prior to the expiration of the period for which the certificates of registration were issued or renewed.

It seems clear from this that Congress intended in this act to provide for but a single registration of a trade-mark. Congress has provided for a definite procedure when the trade-mark is assigned or transferred, and it would seem that the Office has exhausted its authority under the statute when it follows the procedure laid down in the statute. Applicant has followed the statute in recording in the Patent Office a transfer of the mark, and by such act it has procured every right which the statute can give it. For this reason we must grant opposer's prayer that the application for registration be denied.

The Examiner of Interferences is reversed, the opposition is sustained, and the registration now asked is refused to applicant.

DECISIONS OF THE U. S. COURTS.

U. S. Circuit Court of Appeals—Third Circuit.

AKRON-OVERLAND TIRE CO. *v.* WILLYS-OVERLAND CO.

Decided June 13, 1921.

[273 Fed. Rep., 674.]

1. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—TIRE MANUFACTURER HAS BUSINESS SUFFICIENTLY RELATED TO AUTOMOBILE-MAKER TO ENTITLE THE LATTER TO PREVENT APPROPRIATION OF NAME.

A corporation engaged in the business of retreading tires for automobiles, though not in direct competition with a manufacturer of automobiles, is engaged in a business so connected with automobiles that the public in buying the stocks and securities, as well as the tires, of the tire company might be misled by the use by the tire company of a distinctive word of the automobile company's name, so that the automobile company can restrain the use of such word, especially where it was shown that third parties had confused the tire company with the automobile company.

2. TRADE-MARKS AND TRADE NAMES AND UNFAIR COMPETITION—CHOICE OF NAME SIMILAR TO EXISTING BUSINESS IS EVIDENCE OF BELIEF CONFUSION WOULD THEREBY RESULT.

When a corporation with a practically unlimited field of distinctive names to choose from chose for the name of its tires the word "Overland," which was then well known by the public in connection with a make of automobiles, when such word had no connection or association with the automobile trade except that which the maker had given it, that fact in and of itself is evidence of the corporation's belief that its business and that of the automobile manufacturer concerned a common field and that the adoption of the name was calculated to confuse the public mind and enable the corporation to draw to itself the good will established by automobile manufacturer.

APPEAL from the District Court of the United States for the District of Delaware; Hugh M. Morris, judge.

Suit by the Willys-Overland Company against the Akron-Overland Tire Company to restrain the use by defendant of the name "Overland" in the transaction of its business. From a decree granting a preliminary injunction (268 Fed., 151) defendant appeals. Affirmed.

Mr. John R. Nicholson (*Warren H. Small* of counsel) for the appellant.

Mr. Robert G. Thach and *Mr. Andrew C. Gray* for the appellee.

Before BUFFINGTON, WOOLLEY, and DAVIS, Circuit Judges.

BUFFINGTON, *Cir. J.:*

In this case, the court below, on hearing, being of opinion, as recited in its decree, "that the use of the word 'Overland' by the defendant in its name, in the transaction of its business and in the threatened sale of its stock and securities, is calculated to lead the public to believe that the goods, stocks, and securities of the defendant are the goods, stocks, and securities of the complainant, and that thereby the complainant is irreparably injured," and the complainant having given an adequate indemnity bond, issued a preliminary injunction enjoining the defendant from using the word "Overland" pending the further order of the court. The facts of the case and the reasons and adjudged cases in support of the court's action, are set forth in its opinion printed in 268 Fed., 151.

[1] A study of the record shows that in the grant of a preliminary injunction there was no abuse by the court of the discretionary power vested in it upon such a showing of facts and circumstances as is there disclosed. We note the earnest contention of defendant's counsel that the case was one where there could be no unfair competition on the part of the defendant, because the defendant was not in business competition where the parties were not in competition in the same kind of business. In view of this contention we deem it proper to say the matter has had our serious consideration, and we find no ground to convict the court below of error, either in its use of authorities or in other regards; for, while it may be conceded that the plaintiff company manufactures automobiles and the defendant does not, and while the plaintiff does not make or sell automobile-tires, and the defendant retreads and sells tires, and in exact terms the two do not compete in these particular things, yet the fact remains that the business of both is so connected with automobiles that the public, in buying the stocks, securities, and retread-tires of the defendant company, by the use of the word "Overland" in connection therewith, will, by such descriptive word, be led to believe it is buying property or articles owned or dealt in by the plaintiff or one of its subsidiary companies. That the plaintiffs had in the word "Overland" a good will of high reputation and great value in connection with automobiles cannot be gainsaid. That the defendants' use of the word "Overland," in connection with the sale of its retread-tires and its stocks and securities, would enable it to share in the plaintiff's good will and reputation, also cannot be gainsaid. That such use of the word "Overland" by the defendant would breed confusion and misunderstanding in the minds of the public is foreshadowed by what did happen in the way of third parties confusing and connecting the defendant and its acts with the plaintiff company, and even holding the plaintiff accountable for such acts. Indeed, it is manifest that under the facts of this case the maintenance by the plaintiff of the good will attributed to Overland business and products would, in the future, be determined, not alone by what the plaintiff did to uphold the standard of that good will, but by what the defendant might do by failure to uphold such reputation and maintain such good will.

[2] Moreover, with a practically unlimited field of distinctive names open to it for choice, when the defendant lately entered the automobile industry, the fact that it chose to take a name that had no connection or association with the automobile trade, except the good will and association which the plaintiff had given it, shows conclusively that the name was given to this new venture in the automobile field because of its established high regard in that industry, which had been given it by the plaintiff. We are not misled by suggestions that the name "Overland" had significance from the Overland Trail and affairs of 80 years ago. But we are impressed by the fact that at the present time, and for some years past, the word "Overland" has been closely associated in the public mind, with the plaintiff company's automobile business. Under such conditions the taking of the name Overland by the defendant, when it went into the automobile business, and its using that name in connection with its automobile business, in and of itself evidences the belief of the defendant that its business and the plaintiff's business concern a common field of business endeavor, and that the public would recognize, by the use of the word "Overland," that the business of both concerned the automobile business.

It will thus be seen that the business of both companies, because they both concerned some phase of automobile activity, were interrelated, and that since the operations of the plaintiff company in that field were known to, and described by, the public by the business or trade name of "Overland," it necessarily followed that, when the defendant company sought to also describe its

ventures by the trade name "Overland," it was calculated to confuse the public mind and enabled the defendant to draw to itself, and to draw from the plaintiff, the exclusive trade name and trade good will which the plaintiff, by a business course of years, had given to the word "Overland" in connection with the automobile industry. Such being the fact, it follows that both the English and American authorities justify the court below in its action, for in fact there was substantial and material competition between these parties.

Taking the case on the whole, we find no abuse of discretion on the part of the court below in the grant of its injunction.

ADJUDICATED PATENTS.

(U. S. D. C. Conn.) The Carnes patent, No. 760,102. claims 1 and 4, for mechanical artificial arm and hand, *Held* valid and infringed. *Carnes Artificial Limb Co.* v. *Dilworth Arm Co.*, 273 Fed. Rep., 838.

(U. S. D. C. N. J.) The Corby reissue patent, No. 11,751, for the making and shaping of dough, *Held* valid and infringed. *Weber* v. *Ward Baking Co.*, 273 Fed. Rep., 818.

(U. S. C. C. A. Pa.) The Jones reissue patent, No. 14,341, for incandescent-lamp socket, not infringed. *General Electric Co.* v. *Philadelphia Electric & Mfg. Co.*, 273 Fed. Rep., 897.

(U. S. C. C. A. Cal.) The Zidell patent, No. 54,809, for child's romper, *Held* not to disclose invention. *Faris* v. *Patsy Frok & Romper Co.*, 273 Fed. Rep., 900.

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 6TH DAY OF SEPTEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aber, Edgar, St. Joseph, Mich. Flue-scraper. No. 1,390,072; Sept. 6; v. 290; p. 104.
Adams, Thoms F., *et al.* (See Garrard, William B., assignor.)
Adams, Thomas W. (See Seymour, C. R., Hoch, and Adams.)
Adams, William, Hartselle, Ala. Plant-chopping machine. No. 1,389,570; Sept. 6; v. 290; p. 3.
Ahlmgren, Walborg, New York, N. Y. assignor of one-third to H. C. Karlson, Hasbrouck Heights, N. J., and one-third to C. A. Bursell, New York, N. Y. Toy carousel. No. 1,389,926; Sept. 6; v. 290; p. 74.
Akimoff, Nicholas W., Wynnewood, assignor to General Machinery Foundations Company, Philadelphia, Pa. Hinge connection. No. 1,389,728; Sept. 6; v. 290; p. 34.
Akre, Salemon, Seattle, Wash. Apparatus for handling purse-seines. No. 1,390,006; Sept. 6; v. 290; p. 90.
Aktiebolaget Lidkopings Mekaniska Verkstad. (See Olsson, Karl, and A. H., assignors.)
Alden, George I. (See Dower, George G., assignor.)
Alderson, William, Kimberly, Cape of Good Hope, South Africa. Wheel and resilient tire for road-vehicles. No. 1,389,729; Sept. 6; v. 290; p. 34.
Allen, Charles E., Williamson, Pa. Nut-lock. No. 1,390,007; Sept. 6; v. 290; p. 90.
Allen, Orren, Denver, Colo. Concrete-reinforcing metal unit for the walls, doors, and ceilings of buildings and for other concrete construction work. No. 1,390,073; Sept. 6; v. 290; p. 104.
Alma Manufacturing Company of Baltimore City. (See Kerngood, Allen H., assignor.)
Altenberg, George P., assignor to The Icy-Hot Bottle Company, Cincinnati, Ohio. Heat-insulated container. No. 1,390,227; Sept. 6; v. 290; p. 134.
Ambler, Joseph A., Norwich, Conn., and H. D. Gibbs, San Francisco, Calif. Manufacture of naphthalene sulfonic acids. No. 1,390,241; Sept. 6; v. 290; p. 136.
Ambühl, Robert, and M. Teitsch, Troy, N. Y. Tire-filler. No. 1,389,806; Sept. 6; v. 290; p. 49.
American Assembling Machine Company. (See Juengst, Charles A., assignor.)
American Can Company. (See Fleischer, Paul W., assignor.)
American Can Company. (See Graham, Charles W., assignor.)
American Can Company. (See Sharp, Lee C., assignor.)
American Flyer Manufacturing Co. (See Frohne, Albin, assignor.)
American Optical Company. (See Hamilton, Frederick, assignor.)
American Sanitary Refrigeration Co. (See Fischbacher, Philip, assignor.)
American Smelting & Refining Company. (See Garr, S. R., and Barker, assignors.)
American Smelting and Refining Company. (See Thiele, A. A., and Ingersol, assignors.)
American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)
American Whaley Engine Company. (See Whaley, William B. S., assignor.)
American Wheel Company. (See Boswell, Fletcher O., assignor.)
Anderson-Barngrover Mfg. Co. (See Thompson, Albert R., assignor.)
Anderson Electric & Equipment Co. (See Anderson, Ernst G. K., assignor.)
Anderson Electric & Equipment Co. (See Grigsby, Bertram J., assignor.)
Anderson, Ernst G. K., assignor to Anderson Electric & Equipment Co., Chicago, Ill. Lamp focal adjustment. No. 1,389,571; Sept. 6; v. 290; p. 3.
Anderson, Frank C., Cincinnati, Ohio. Switch-stand. No. 1,389,730; Sept. 6; v. 290; p. 34.
Angell, Otis R., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Method of and machine for cutting heel-seats. No. 1,389,613; Sept. 6; v. 290; p. 11.
Anti-Bacilli Company, The. (See Tabler, Frank C., assignor.)
Apgar, Milton P. (See Harsley, J. W., and Apgar.)
Apple, Vincent G., Dayton, Ohio. Laminated structure and making same. No. 1,390,242; Sept. 6; v. 290; p. 136.
Arduino, Pier T., Turin, Italy. Machine for making coffee and like infusions. No. 1,390,008; Sept. 6; v. 290; p. 90.
Arledge, Elbert H., assignor of one-half to Harry Hamilton, Fort Worth, Tex. Detachable inside door-lock. No. 1,390,009; Sept. 6; v. 290; p. 91.
Arnold, Lyman, Lynn, Mass., assignor to General Electric Company. Constant-current transformer. No. 1,390,074; Sept. 6; v. 290; p. 104.
Art Color Motion Picture Co. (See Miller, Frederic R., assignor.)
Automatic Electric Heater Company. (See Clark, Warren F., assignor.)
Automatic Machine Company. (See Eanes, Hugh P., assignor.)
Automotive Supply Manufacturing Company. (See Carroll, M. W., Jr., assignor.)
B. & B. Photo Co. (See Barber, Anthony A., assignor.)
Babcock & Wilcox Company, The. (See Spyer, Arthur, assignor.)
Baines Engineering Company, The. (See Baines, Henry C., assignor.)
Baines, Henry C., East Cleveland, assignor to The Baines Engineering Company, Canal Dover, Ohio. Tractor. No. 1,389,851; Sept. 6; v. 290; p. 59.
Baird Demountable Rim Lock Company. (See Baird, Robert M., assignor.)
Baird, Robert M., Salt Lake City, Utah. Demountable-rim lock for vehicle-wheels. No. 1,390,186; Sept. 6; v. 290; p. 126.
Baird, Robert M., assignor to Baird Demountable Rim Lock Company, Salt Lake City, Utah. Demountable-rim lock. No. 1,390,187; Sept. 6; v. 290; p. 127.
Baker, Jesse F. (See Day, Charles B., and L. F., and Baker.)
Ball, Augustus A., Lynn, Mass. Lock-nut. No. 1,389,927; Sept. 6; v. 290; p. 75.
Ball, Henry P., assignor to S. Sternau & Company, Inc., Brooklyn, N. Y. Burner for vapor-stoves. No. 1,389,614; Sept. 6; v. 290; p. 11.
Barber, Anthony A., Newark, N. J., assignor to B. & B. Photo Co. Photographic-printing frame. No. 1,389,615; Sept. 6; v. 290; p. 11.
Barbet, Emile A., Paris, France. Process and apparatus for the continuous treatment of fusel-oil. No. 1,389,852; Sept. 6; v. 290; p. 59.
Barham, Angeline M., Philadelphia, Miss. Tatting-shuttle. No. 1,390,188; Sept. 6; v. 290; p. 127.
Barker, Ralph F. (See Garr, S. R., and Barker.)
Barker, Wendell A., Elkhart, Ind. Chuck. No. 1,389,731; Sept. 6; v. 290; p. 34.
Barks, Frank S., assignor to Lincoln Steel and Forge Company, St. Louis, Mo. Truck-frame for mine-cars. No. 1,389,928; Sept. 6; v. 290; p. 75.
Barnes, Joseph H., Stockport, England. Incandescent-gas-mantle box. No. 1,390,234; Sept. 6; v. 290; p. 135.
Baron, Charles S., Tiffin, Ohio. Sanitary pitcher or the like. No. 1,389,732; Sept. 6; v. 290; p. 35.
Baron, Charles S., Tiffin, Ohio. Sanitary pitcher or the like and means for connecting their covers thereto. No. 1,389,733; Sept. 6; v. 290; p. 35.
Baron, Charles S., Tiffin, Ohio. Liquid-container having separable top. No. 1,389,734; Sept. 6; v. 290; p. 35.
Barrow, Charles J., Hull, Mass. Ground-wire connection. No. 1,389,929; Sept. 6; v. 290; p. 75.
Bates, Lindon W., Mount Lebanon, N. Y. Fuel and producing same. No. 1,390,228; Sept. 6; v. 290; p. 134.
Bates, Lindon W., Mount Lebanon, N. Y. Raising the specific gravity and flash-points of liquids. No. 1,390,229; Sept. 6; v. 290; p. 134.
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Bates, Lindon W., Mount Lebanon, N. Y. Increasing the specific gravity and flash-point of liquids. No. 1,390,233; Sept. 6; v. 290; p. 135.
Baumann, Gustav, assignor of one-half to A. Lederle, Rahway, N. J. Wheel. No. 1,389,807; Sept. 6; v. 290; p. 49.
Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Bed-spring frame. No. 1,389,930; Sept. 6; v. 290; p. 75.
Bayer, Matthew F., assignor to Simmons Company, Kenosha, Wis. Panel-bed. No. 1,389,931; Sept. 6; v. 290; p. 75.

Bead Chain Manufacturing Company, The. (See Goodridge, Gilbert W., assignor.)
Becher, Gustav, Wald, Germany. Heel with interchangeable tread. No. 1,390,075; Sept. 6; v. 290; p. 104.
Benedict, Herschel A., East Orange, and E. M. Moller, Jersey City, N. J. Truck-frame for railway-cars. No. 1,389,616; Sept. 6; v. 290; p. 11.
Benn, Erastus H., Watch Hill, R. I. Tie. No. 1,390,190; Sept. 6; v. 290; p. 127.
Bennett, George H., Kansas City, Mo. Film-cleaning device. No. 1,390,076; Sept. 6; v. 290; p. 105.
Berg, Edward H., Minneapolis, Minn. Adjustable caster-cups. No. 1,389,572; Sept. 6; v. 290; p. 8.
Bergman, Theo. (See Sadler, Edward C., assignor.)
Beronio, Fred, San Francisco, Calif., assignor to Levi Strauss & Co. Coveralls. No. 1,390,010; Sept. 6; v. 290; p. 91.
Biek, William G. (See Magin, M. J., and Biek.)
Bijur, Joseph, New York, N. Y., assignor, by mesne assignments, to Bijur Motor Appliance Company. Dynamo-construction for motor-vehicles. No. 1,390,077; Sept. 6; v. 290; p. 105.
Bijur Motor Appliance Co. (See Bijur, Joseph, assignor.)
Billman, Henry E., assignor to Industrial Track Construction Company, St. Louis, Mo. Railway accessory. No. 1,389,617; Sept. 6; v. 290; p. 11.
Bingham, George W., Cleveland, Ohio, assignor to The International Moving Picture & Film Company, Nashville, Tenn. Perforating-machine. No. 1,389,618; Sept. 6; v. 290; p. 11.
Bixler, John F., and J. A. Long, assignors to Penn Engineering Company, Reading, Pa. Vise-post. No. 1,390,189; Sept. 6; v. 290; p. 127.
Blackall, Alfred C., *et al.* (See Garrard, William B., assignor.)
Blain, John B., Rochester, N. Y. Grease-cup. No. 1,390,078; Sept. 6; v. 290; p. 105.
Blakeslee, George S., Chicago, Ill. Washing-machine. No. 1,389,853; Sept. 6; v. 290; p. 59.
Bliven, Bertrand C., San Francisco, Calif. Grease-gun. No. 1,390,011; Sept. 6; v. 290; p. 91.
Bloomfield, Arthur E., Rochester, N. Y. Map. No. 1,390,079; Sept. 6; v. 290; p. 105.
Bloomfield, John C., East Columbus, Ohio. Leveling-harrow. No. 1,389,608; Sept. 6; v. 290; p. 50.
Boelter, August H., Chicago, Ill. Rug and carpet cleaning machine. No. 1,389,809; Sept. 6; v. 290; p. 50.
Boggs, Samuel L., Ivanhoe, Va. Ore-separator. No. 1,390,080; Sept. 6; v. 290; p. 105.
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Bond, Loren C., Washington, D. C. Tag safety-pin. No. 1,390,191; Sept. 6; v. 290; p. 127.
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Boomer, George R., assignor of one-half to H. M. Mobbs, Spokane, Wash. Laundry-washing machine. No. 1,389,619; Sept. 6; v. 290; p. 12.
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Borst, William E., and C. C. Gilleo, Grand Rapids, Mich. Apparatus for cooling molds of type-metal-slug-casting machines. No. 1,389,573; Sept. 6; v. 290; p. 3.
Bosmajian, George, Fresno, Calif. Tree-limb support. No. 1,389,932; Sept. 6; v. 290; p. 76.
Bossert, William F., Utica, N. Y. Semaphore. No. 1,390,082; Sept. 6; v. 290; p. 106.
Bossu, Pierre, assignor to Société Anonyme des Etablissements L. Bleriot, Paris, France. Electric commutator. No. 1,390,192; Sept. 6; v. 290; p. 127.
Boswell, David A., assignor of one-half to J. H. Kerr and one-half to H. P. Talbert, Indianapolis, Ind. Automobile steering control. No. 1,389,620; Sept. 6; v. 290; p. 12.
Boswell, Fletcher O., assignor to American Wheel Company, Philadelphia, Pa. Automobile-lock. No. 1,389,933; Sept. 6; v. 290; p. 76.
Bourdelles, Emile A. L., Paris, France, assignor to Société Anonyme Des Etablissements Delaunay Belleville, St. Denis, France. Gas-operated machine-gun. No. 1,389,810; Sept. 6; v. 290; p. 50.
Bourke, Alexander M., London, England. Construction of ships, tanks, and the like. No. 1,390,013; Sept. 6; v. 290; p. 91.
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Bowmar, Gershen, assignor of one-half to W. E. Holder, Toronto, Ontario, Canada. Piston. No. 1,390,193; Sept. 6; v. 290; p. 128.
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Bradway, Chattin, New York, N. Y. Adjustable car for children. No. 1,389,854; Sept. 6; v. 290; p. 59.
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Brewster, Charles W., New York, N. Y., assignor to The Brewster-Goldsmith Corporation Inc. Spark-plug. No. 1,390,014; Sept. 6; v. 290; p. 92.
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Brown, George W., Fort Worth, Tex., assignor of one-fourth to H. M. Coleman, Indianapolis, Ind. Automatically-operated gate and door. No. 1,390,015; Sept. 6; v. 290; p. 92.
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Chambers Man'fg Co. (See Chambers, John E., assignor.)
Chapman, Earle E., Los Angeles, Calif., assignor to Miller-Chapman Company. Weight-lifting device. No. 1,389,814; Sept. 6; v. 290; p. 51.

Charlton, Robert W., Pineville, assignor of one-half to H. Mairus, Rapides parish, La. Auger. No. 1,389,578; Sept. 6; v. 290; p. 4.
Chase, J. M. (See Slater, Jasper P., assignor.)
Chemical Machinery Corporation. (See Field, Crosby, assignor.)
Cheney, Fred D., Gypsum, Kans. Intensifier. No. 1,390,020; Sept. 6; v. 290; p. 93.
Christian, Warren W. (See Miller, L. J., and Christian.)
Chronister, Frank L., Edmond, Okla. Taper grab. No. 1,389,859; Sept. 6; v. 290; p. 60.
Churchard, Alexander, New York, N. Y., assignor to Wilson Welder & Metals Company, Inc. Electrical solenoid. No. 1,389,625; Sept. 6; v. 290; p. 13.
Chute, Levi, St. Joseph, Mo. Animal-trap. No. 1,389,626; Sept. 6; v. 290; p. 13.
Clapp, Albert L., Danvers, Mass. Making paper and fiber board. No. 1,389,936; Sept. 6; v. 290; p. 76.
Clarenbach, Louis, Passaic, N. J. Textile-fabric-treating machine. No. 1,389,627; Sept. 6; v. 290; p. 13.
Clark, Warren F., Cleveland, Ohio, assignor, by mesne assignments, to Automatic Electric Heater Company, Warren, Pa. Beverage-urn. No. 1,389,628; Sept. 6; v. 290; p. 13.
Clawson, Leonard E., San Francisco, Calif. Cushioning device and support for vehicle-frames. No. 1,390,021; Sept. 6; v. 290; p. 93.
Clements, Carl A., Grand Rapids, Mich. Union-suit. No. 1,390,086; Sept. 6; v. 290; p. 107.
Cleveland Folding Machine Company, The. (See Olson, Andrew, assignor.)
Clifford-Wood Co. (See Phillips, Byron B., assignor.)
Clough, Frederick H. (See Taylor, H. W., and Clough.)
Coakley, William E., assignor to The Ohio Body & Blower Company, Cleveland, Ohio. Forming valve-seats. No. 1,390,022; Sept. 6; v. 290; p. 93.
Cockrill, James H., Oakland, Calif. Vehicle-wheel rim. No. 1,389,937; Sept. 6; v. 290; p. 76.
Cohen, Joseph L., New York, N. Y. Vehicle-wheel. No. 1,389,629; Sept. 6; v. 290; p. 14.
Cohen, Joseph L., New York, N. Y. Vehicle-wheel. No. 1,389,938; Sept. 6; v. 290; p. 77.
Cold Light Manufacturing Company, The. (See Erdle, Reiner W., assignor.)
Coleman, H. M. (See Brown, George W., assignor.)
Colton, George F. (See Gonzales, Alvin E., assignor.)
Combs, William J., Otterbein, Ind. Scoop-board. No. 1,389,860; Sept. 6; v. 290; p. 61.
Comment, Paul, assignor to Société Fabriques de Produits Chimiques de Thann et de Mulhouse, Rue de la Merzeau, Mülhausen, Alsace, France. Manufacture of potassium sulfate. No. 1,389,861; Sept. 6; v. 290; p. 61.
Comment, Paul, assignor to Société de Produits Chimiques de Thann et de Mulhouse, Rue de la Merzeau, Mülhausen, Alsace, France. Manufacture of potassium sulfate. No. 1,389,862; Sept. 6; v. 290; p. 61.
Conder, Charles M., Camborne, England. Blower and exhauster for moving air and gas. No. 1,390,237; Sept. 6; v. 290; p. 135.
Conklin, William F., Tarentum, Pa. Clamp. No. 1,390,087; Sept. 6; v. 290; p. 107.
Constantin, Antone, New York, N. Y. Insecticide. No. 1,390,088; Sept. 6; v. 290; p. 107.
Continental Can Company. (See Myhrum, Thomas, assignor.)
Continental Can Company. (See Robinson, Daniel P., assignor.)
Cook, Carson C., Stockton, Calif. Apparatus for tilling the soil. No. 1,390,089; Sept. 6; v. 290; p. 107.
Coon, Austin L., Aurora, Oreg. Safety-hook. No. 1,390,023; Sept. 6; v. 290; p. 94.
Cooney, Charles A., assignor of one-half to R. A. Cooney, Erie, Pa. Method of and apparatus for saturating paper. No. 1,389,630; Sept. 6; v. 290; p. 14.
Cooney, Richard A. (See Cooney, Charles A., assignor.)
Cooper, Frederick B. (See McKay, R. J., and Cooper.)
Corless, Reuben F., College Park, Ga. Inner tube for tires. No. 1,389,815; Sept. 6; v. 290; p. 51.
Cotton, Arthur L., Sayre, Pa. Surgical splint. No. 1,389,741; Sept. 6; v. 290; v. 36.
Crabtree, John I., assignor to Eastman Kodak Company, Rochester, N. Y. Colored image and producing the same. No. 1,389,742; Sept. 6; v. 290; p. 37.
Crabtree, Walter A. (See Crabtree, Wesley and W. A.)
Crabtree, Wesley and W. A., Portsmouth, Ohio. Twine-holder. No. 1,389,863; Sept. 6; v. 290; p. 61.
Craig, Homer C. (See Weaver, P., and Craig.)
Craig, John P. (See Friar, Edward, assignor.)
Croner, Martin, Klemme, Iowa. Fountain floor and furniture polisher. No. 1,389,743; Sept. 6; v. 290; p. 37.
Cucumel, Joseph, Lyon, France. Apparatus for finishing velvet and other nap fabrics. No. 1,390,093; Sept. 6; v. 290; p. 108.
Cunningham, Albert P. (See Rece, F. S., and Cunningham.)
Curran, Edward T., Detroit, Mich. Radiator. No. 1,389,631; Sept. 6; v. 290; p. 14.
Curran, Edward T., Detroit, Mich. Radiator. No. 1,389,744; Sept. 6; v. 290; p. 37.
Curran, Edward T., Detroit, Mich. Airplane-radiator. No. 1,389,745; Sept. 6; v. 290; p. 37.
Curry, Evan M., Altus, Okla. Spring-tire. No. 1,390,024; Sept. 6; v. 290; p. 94.
Curtis, Van V., Follansbee, W. Va. Automobile-jack. No. 1,390,090; Sept. 6; v. 290; p. 107.
Cutler-Hammer Mfg. Co., The. (See Van Vleet, Roy M., assignor.)
Cutright, Ishmael G., and J. A. Sharps, assignors to The Cutright Sharps Company, Inc., Buckhannon, W. Va. Shade-roller. No. 1,389,579; Sept. 6; v. 290; p. 4.
Cutright, Ishmael G. (See Sharps, J. A., and Cutright.)
Cutright Sharps Company, Inc., The. (See Cutright, I. G., and Sharps, assignors.)
Cutright Sharps Company, The. (See Sharps, J. A., and Cutright, assignors.)
D-G Storage Battery Co. (See Gardiner, William, assignor.)
Darlington, Philip J., Greenfield, Mass. Valve mechanism for liquid straining or filtering apparatus. No. 1,389,939; Sept. 6; v. 290; p. 77.
Davis, Charles D., *et al.* (See Fox, Frederick L., assignor.)
Davis, Francis W., Buffalo, N. Y. Differential gear. No. 1,389,580; Sept. 6; v. 290; p. 4.
Davis, George E., Hamburg, N. Y. Automobile-signal. No. 1,390,094; Sept. 6; v. 290; p. 108.
Davis, William H., Bronxville, and Fredrick E. Joss, Brooklyn, N. Y., assignors to Lektophone Corporation. Acoustic diaphragm. No. 1,389,632; Sept. 6; v. 290; p. 14.
Day, Charles B., L. F., and J. F. Baker, Lamar, Colo. Control apparatus for transmission and brakes of automobiles. No. 1,389,816; Sept. 6; v. 290; p. 51.
Day, Luther F. (See Day, Charles B. and L. F., and Baker.)
Deal, Isaiah E., Quilcene, Wash. Concrete-molding form. No. 1,389,817; Sept. 6; v. 290; p. 52.
Dearing, Harold W., New York, N. Y. Preserve-jar opener. No. 1,389,818; Sept. 6; v. 290; p. 52.
De Bas, Willem J., The Hague, Netherlands. Producing artificial stone. No. 1,390,244; Sept. 6; v. 290; p. 137.
De Ciciliani, Antony, Los Angeles, Calif. Waterproofing composition and making same. No. 1,390,236; Sept. 6; v. 290; p. 135.
Dettinger, Martin L., J. A. Wesper, and C. Shewell, Philadelphia, Pa. Exercising apparatus. No. 1,390,095; Sept. 6; v. 290; p. 109.
De Voe, Albert H., Westfield, N. J., assignor to The Singer Manufacturing Company. Adjustable binder. No. 1,390,195; Sept. 6; v. 290; p. 128.
Dick, George, *et al.* (See Mattivi, Vigilio, assignor.)
Dick, Joseph, assignor to The Joseph Dick Manufacturing Company, Canton, Ohio. Knife-grinding machine. No. 1,390,096; Sept. 6; v. 290; p. 109.
Dick, Joseph Manufacturing Company, The. (See Dick, Joseph, assignor.)
Dickens, James C. (See Thomas, W. C., Dickens, and Fowler.)
Dickinson, Tom, Accrington, England. Carpet-sweeper. No. 1,390,099; Sept. 6; v. 290; p. 109.
Dies, Charles A., assignor to J. V. Larson, Chicago, Ill. Wrench. No. 1,389,581; Sept. 6; v. 290; p. 4.
Dillet, William H., assignor of one-third to J. M. Harp and one-third to W. T. Harp, Ralston, Okla. End-gate-fastening device. No. 1,389,819; Sept. 6; v. 290; p. 52.
Dillman, Joseph, assignor to Homan & Company, Cincinnati, Ohio. Candle-molding machine. No. 1,390,257; Sept. 6; v. 290; p. 139.
Di Sante, Vito, Wichita, Kans. Air-filter. No. 1,390,096; Sept. 6; v. 290; p. 109.
Dittrick, John, Sr., Perth, Ontario, Canada. Scooter-car. No. 1,389,633; Sept. 6; v. 290; p. 15.
Doering, Charles J. (See Doering, William M. and C. J.)
Doering, William M. and C. J., Cincinnati, Ohio. Container and display carton. No. 1,390,196; Sept. 6; v. 290; p. 128.
Domestic Refrigerating Co. (See Raddant, Walter C., assignor.)
Donaire, Pedro, Habana, Cuba. Construction for raising sunken vessels. No. 1,390,097; Sept. 6; v. 290; p. 109.
Donnellan, Edward P., assignor to Standard Coin Counter, Inc., Brooklyn, N. Y. Coin-counting machine. No. 1,389,634; Sept. 6; v. 290; p. 15.
Doss, John L., Albany, Ala. Cotton-chopper. No. 1,390,100; Sept. 6; v. 270; p. 110.
Dower, George G., assignor of one-half to G. I. Alden, Worcester, Mass. Self-lubricating metal bearing and the like. No. 1,390,197; Sept. 6; v. 290; p. 128.
Downey, Andrew, assignor of one-half to F. Martin, Columbus, Ohio. Wrecking-tool. No. 1,389,820; Sept. 6; v. 290; p. 52.
Drake, Elmer C., assignor of one-half to J. P. Teter, Indianapolis, Ind. Well-drilling apparatus. No. 1,390,025; Sept. 6; v. 290; p. 94.
Duncan, Joseph S., Chicago, Ill. Index-tab. No. 1,390,026; Sept. 6; v. 290; p. 94.
Dunkle, Wesley E., Contact, Nev. Diaphragm-pump. No. 1,389,635; Sept. 6; v. 290; p. 15.
Dunn, Calvin R. (See Shults, H., and Dunn.)
Du Pont, E. I., de Nemours & Company. (See Kraft, Frederick G., assignor.)
Durham, John W., Wichita, Kans. Fuel-heating apparatus for intake-manifolds. No. 1,390,101; Sept. 6; v. 290; p. 110.
Durham, Robert P., Chicago, Ill. Tower. No. 1,390,102; Sept. 6; v. 290; p. 110.
Eanes, Hugh P., assignor to Automatic Machine Company, Inc., Ridgeway, Va. Thread-knotter. No. 1,390,103; Sept. 6; v. 290; p. 110.
Eastman Kodak Company. (See Crabtree, John I., assignor.)

Eastridge, John R., Washington, D. C. Animal-trap. No. 1,389,636; Sept. 6; v. 290; p. 15.
Efstratiades, Eustace D., Newark, N. J. T-square. No. 1,389,864; Sept. 6; v. 290; p. 61.
Eldredge, Elmer E. (See Carpenter, L. E., and Eldredge.)
Electrical Engineers Equipment Company. (See Calloway, Russell T., assignor.)
Emmrich, Fritz, Freiberg, Germany. Mold-core for concrete bodies. No. 1,390,104; Sept. 6; v. 290; p. 110.
Erbeau, Lisa E., Camden, N. J. Convertible chair. No. 1,389,940; Sept. 6; v. 290; p. 77.
Erdle, Reiner W., Weehawken, N. J., assignor to The Cold Light Manufacturing Company. Self-luminous marker for wall-stitches and like objects. No. 1,389,941; Sept. 6; v. 290; p. 77.
Erikson, John. (See Rodin, Charles F., assignor.)
Erwin, Benjamin H., Mishawaka, Ind. Draw-bolt. No. 1,390,105; Sept. 6; v. 290; p. 111.
Etablissements Continsousa (Societe Anonyme.) (See Gauriat, Pierre S., assignor.)
Evans, William H., Joliet, Ill. Guiding device for sleds. No. 1,390,106; Sept. 6; v. 290; p. 111.
Everett, Clarence E., Milwaukee, Wis. Tire-vulcaniser. No. 1,389,821; Sept. 6; v. 290; p. 52.
Fabyan, George, Geneva, Ill. Means for classifying bi-formed alphabet. No. 1,390,027; Sept. 6; v. 290; p. 94.
Fafnir Bearing Company, The. (See Reynolds, Harry R., assignor.) (Reissue.)
Fagan, Robert Latimer Mines, Pa. Tool. No. 1,390,107; Sept. 6; v. 290; p. 111.
Falk, James W., Little Falls, Minn. Tie and rail-clamp. No. 1,390,108; Sept. 6; v. 290; p. 111.
Fangmann, John H., Templeton, Iowa. Lift for motor-vehicles. No. 1,390,109; Sept. 6; v. 290; p. 111.
Farrall, George A., and C. Maul, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Harvester. No. 1,389,746; Sept. 6; v. 290; p. 37.
Farrell, Richard J., Palmer, Mass., assignor of one-third to M. Kardes, Waterbury, Conn., and one-third to J. Bolewicz, Palmer, Mass. Non-skid wheel. No. 1,389,822; Sept. 6; v. 290; p. 52.
Favre-Bulle, Maurice P., Paris, France. Frame for electro-magnetic clock. No. 1,390,110; Sept. 6; v. 290; p. 112.
Federal Adding Machine Corporation. (See Spiro, Charles, assignor.)
Federal Arch-Lift Manufacturing Company. (See Ludwig, Walter M., assignor.)
Fettinger, Enos J., Fort Branch, Ind. Safety device for elevators. No. 1,390,111; Sept. 6; v. 290; p. 112.
Field, Crosby, Brooklyn, assignor to Chemical Machinery Corporation, New York, N. Y. Heat-transference apparatus. No. 1,389,637; Sept. 6; v. 290; p. 15.
Findley, John, De Soto, Kans. Pipe-wrench. No. 1,390,112; Sept. 6; v. 290; p. 112.
Firestone Tire and Rubber Company, The. (See Mell, Tod J., assignor.)
Fischbacher, Philip, Quincy, Ill., assignor to American Sanitary Refrigeration Co., Owensboro, Ky. Refrigerating-machine. No. 1,389,747; Sept. 6; v. 290; p. 37.
Fisher, Frank M. (See Fisher, John G., assignor.)
Fisher, Harry L., New York, assignor to S. Sternau & Co., Inc., Brooklyn, N. Y. Solid fuel and making the same. No. 1,389,638; Sept. 6; v. 290; p. 16.
Fisher, John G., Fairfax county, Va., assignor of one-half to F. M. Fisher, Paducah, Ky. Circuit-controller for train-control apparatus. No. 1,389,748; Sept. 6; v. 290; p. 38.
Fleischer, Paul W., Weehawken Heights, N. J., assignor to American Can Company, New York, N. Y. Flange-curling machine. No. 1,389,639; Sept. 6; v. 290; p. 16.
Fleming, George T., La Grande, Oreg. Safety-hook. No. 1,389,582; Sept. 6; v. 290; p. 5.
Flexible Couplings Company. (See Thomas, George H., assignor.)
Fisk Rubber Company, The. (See Midgley, Thomas, sr., assignor.)
Forbes, Kingston, Flint, assignor to General Motors Corporation, Detroit, Mich. Curtain-support. No. 1,390,113; Sept. 6; v. 290; p. 112.
Ford, Allen S., Taunton, England. Electric kettle and the like. No. 1,390,028; Sept. 6; v. 290; p. 95.
Ford, Barnie S., Coleman, Tex. Cotton-blocking machine. No. 1,390,114; Sept. 6; v. 290; p. 112.
Forwe, John H., Delwood, Ill. Back and belly band holder. No. 1,390,115; Sept. 6; v. 290; p. 113.
Fossati, Mario, Turin, Italy. Gear-wheel. No. 1,390,198; Sept. 6; v. 290; p. 128.
Foster, Harry C., and W. F. Thomas, Connersville, Ind., assignors to Indiana Lamp Company. Fastening means for lamp-lenses. No. 1,390,029; Sept. 6; v. 290; p. 95.
Fowler, Jesse W. (See Thomas, W. C., Dickens, and Fowler.)
Fox, Frederick L., assignor of one-fourth to H. I. Meader, one-fourth to D. B. Phillips, and one-fourth to C. D. Davis, Washington, D. C. Boat. No. 1,389,865; Sept. 6; v. 290; p. 61.
Fox, John B., Chicago, Ill. Box. No. 1,390,116; Sept. 6; v. 290; p. 113.
Frasier, Chauncey E., Washington, Pa. Decorating or annealing oven. No. 1,389,583; Sept. 6; v. 290; p. 5.
Freeman-Daughaday Co. (See McClellan, William J., assignor.)
Freeman, Walter B., Cuyahoga Falls, Ohio, assignor to B. F. Goodrich Company, New York, N. Y. Cutting-die. No. 1,390,117; Sept. 6; v. 290; p. 113.
Freyssinet, Eugene, assignor to Societe Des Navires en Ciment Arme, Paris, France. Reinforced concrete. No. 1,389,942; Sept. 6; v. 290; p. 78.
Friar, Edward, assignor of one-half to J. P. Craig, Hope, R. I. Picker-check. No. 1,389,823; Sept. 6; v. 290; p. 53.
Fridrichsen, Peter C. C., Wheeling, W. Va. Insulator. No. 1,390,118; Sept. 6; v. 290; p. 113.
Frisbie, William J., assignor to Justrite Manufacturing Company, Chicago, Ill. Oil-cup. No. 1,389,640; Sept. 6; v. 290; p. 16.
Froberg, Olof, Benton Harbor, Mich. Automobile-radiator. No. 1,389,749; Sept. 6; v. 290; p. 38.
Frohne, Albin, assignor to American Flyer Manufacturing Co., Chicago, Ill. Crossover for toy railways. No. 1,390,119; Sept. 6; v. 290; p. 113.
Frohne, Albin, assignor to American Flyer Manufacturing Co., Chicago, Ill. Trolley-contactor. No. 1,390,120; Sept. 6; v. 290; p. 113.
Frost, Peter I., Cedarhurst, N. Y. Burial-vault. No. 1,390,121; Sept. 6; v. 290; p. 114.
Fuller, Frans A., assignor to The J. E. Mergott Company, Newark, N. J. Inkstand. No. 1,389,650; Sept. 6; v. 290; p. 18.
Gale, Laburton A., Belmont, assignor to Library Bureau, Cambridge, Mass. Index-card. No. 1,390,199; Sept. 6; v. 290; p. 128.
Gardiner, William, assignor, by mesne assignments, to D-G Storage Co., Chicago, Ill. Electrolyte for storage batteries. No. 1,389,750; Sept. 6; v. 290; p. 38.
Garr, Samuel R., and R. F. Barker, Garfield, Utah, assignor to American Smelting & Refining Company. Removing accretions. No. 1,389,751; Sept. 6; v. 290; p. 38.
Garrard, William B., Victoria, British Columbia, Canada, assignor of one-fourth to A. C. Backall and one-fourth to T. F. Adams, Seattle, Wash. Car-fender. No. 1,389,943; Sept. 6; v. 290; p. 78.
Garrison, George H., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Safety device for firearms. No. 1,389,944; Sept. 6; v. 290; p. 78.
Gauriat, Pierre S., assignor to Etablissements Continsousa (Societe Anonyme), Paris, France. Arrangement for registering images in cinematographic projecting apparatus. No. 1,389,824; Sept. 6; v. 290; p. 53.
Gaus, Wilhelm, and W. Wild, Ludwigshafen-on-the-Rhine, Germany, assignor to A. Kuttroff, New York, N. Y. Manufacturing nitrogen-hydrogen mixtures. No. 1,390,200; Sept. 6; v. 290; p. 129.
Geltz, William T., Cleveland, Ohio. Workman's time-recorder. No. 1,389,641; Sept. 6; v. 290; p. 16.
General Electric Company. (See Arnold, Lyman, assignor.)
General Electric Company. (See Jacobs, Ernest H., assignor.)
General Electric Company. (See Knoderer, Homer G., assignor.)
General Electric Company. (See Laise, Clemens A., assignor.)
General Electric Company. (See Lee, Corliss E., assignor.)
General Electric Company. (See Macloskie, George, assignor.)
General Electric Company. (See Smith, Arthur R., assignor.)
General Electric Company. (See Taylor, H. W., and Clough, assignors.)
General Machinery Foundations Company. (See Akimoff, Nicholas W., assignor.)
General Motors Corporation. (See Forbes, Kingston, assignor.)
Geneste, Philippe, Chateau de Chapeau Corn, Vignieu, France. Stepped lenticular system for heat and light concentrating to be used on flying-machines. No. 1,390,258; Sept. 6; v. 290; p. 189.
George, John H., assignor to E. A. Hawthorne, Bridgeport, Conn. Electric-lighting apparatus. No. 1,390,201; Sept. 6; v. 290; p. 129.
George, Ollie C., Chicago, Ill. Dumping-body. No. 1,389,642; Sept. 6; v. 290; p. 17.
Georgeson, Franklin T., C. E. Tabor, and L. B. Poyfaire, Eureka, Calif. Furring-strip. No. 1,389,866; Sept. 6; v. 290; p. 61.
Gervais, Joseph, Jr., Los Angeles, Calif. Supporting and protecting piano attachment. No. 1,389,825; Sept. 6; v. 290; p. 53.
Gibbs, Harry D. (See Ambler, J. A., and Gibbs.)
Gilbert, Charles E., and A. H. Carlson, Bridgeport, Conn. Toy dump cart or wagon. No. 1,390,122; Sept. 6; v. 290; p. 114.
Gilkey, Leon L., Detroit, Mich., and C. H. Braselton, New York, N. Y. Truck. No. 1,390,123; Sept. 6; v. 290; p. 114.
Gilleo, Clarence C. (See Borst, W. E., and Gilleo.)
Gillespie, Alan K., Richmond Heights, Mo. Freezing ice-cream. No. 1,390,202; Sept. 6; v. 290; p. 129.
Gilman, Albert E., assignor to King & Hamilton Company, Ottawa, Ill. Corn-sheller. No. 1,390,030; Sept. 6; v. 290; p. 95.

Glass, Perley R., Brookline, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Turning and beading machine. No. 1,389,643; Sept. 6; v. 290; p. 17.
Goersch, William F. J., Cleveland, Ohio. Suspension-wheel. No. 1,389,826; Sept. 6; v. 290; p. 53.
Gonder, Joseph P., Newark, N. J. Spark-plug cleaner. No. 1,389,651; Sept. 6; v. 290; p. 19.
Gonsales, Alvin R., assignor of one-half to G. F. Colton, Los Angeles, Calif. Railway construction. No. 1,390,203; Sept. 6; v. 290; p. 129.
Goodrich, B. F., Company. (See Freeman, Walter B., assignor.)
Goodrich, B. F., Company, The. (See Parker, Victor A., assignor.)
Goodridge, Gilbert W., assignor to The Bead Chain Manufacturing Company, Bridgeport, Conn. Splicing-tool. No. 1,389,584; Sept. 6; v. 290; p. 5.
Goodyear's Metallic Rubber Shoe Company, The. (See Scott, Reid B., assignor.)
Goss, Charles E., (See Goss, George W. and C. E.)
Goss, George W. and C. E., Baltimore, Ohio. Farm implement. No. 1,389,652; Sept. 6; v. 290; p. 19.
Gottschalk, Henry L., Chicago, Ill. Adjustable lure-wabbler. No. 1,389,644; Sept. 6; v. 290; p. 17.
Goudeau, Wilton J., Grider, Ark. Vending-machine for grocery commodities and the like. No. 1,390,031; Sept. 6; v. 290; p. 95.
Gough, Charles M., assignor of one-half to J. Kittinger, East St. Louis, Ill. Pressing-pad. No. 1,390,124; Sept. 6; v. 290; p. 114.
Graham, Charles W., Crestwood, assignor to American Can Company, New York, N. Y. Can-end-lining machine. No. 1,389,752; Sept. 6; v. 290; p. 38.
Griffin, William, Wilnecote, near Tamworth, England. Safety device for mine-cages, lifts, and the like. No. 1,389,867; Sept. 6; v. 290; p. 62.
Grigaby, Bertram J., assignor to Anderson Electric & Equipment Co., Chicago, Ill. Extension-lamp mounting for vehicles. No. 1,389,585; Sept. 6; v. 290; p. 5.
Gronquist, Carl G., assignor, by mesne assignments, to The Locomobile Company, Bridgeport, Conn. Tire-carrier. No. 1,390,204; Sept. 6; v. 290; p. 129.
Guenin, Walter H., Lewellen, Nebr. Tank-heater. No. 1,389,653; Sept. 6; v. 290; p. 19.
Gunter, Charles S., Spruce Pine, N. C. Cigar-box-lid holder and display-ticket. No. 1,390,125; Sept. 6; v. 290; p. 114.
Gunther, George E., St. Paul, Minn. Garden-tractor. No. 1,389,945; Sept. 6; v. 290; p. 78.
Gustafson, Axel R., Chicago, Ill. Ironing-machines. No. 1,389,753; Sept. 6; v. 290; p. 39.
Guy, William L., Seward, Alaska. Pipe-cover. No. 1,389,868; Sept. 6; v. 290; p. 62.
Guyton and Cumfer Manufacturing Company. (See McFarland, Owen D., assignor.)
Hadaway, John B., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting-machine. No. 1,389,654; Sept. 6; v. 290; p. 19.
Hadfield Penfield Steel Company. (See Brown, Davis, assignor.)
Hafelfinger, Frederick E., Weehawken, N. J. Warning-signal for tire deflation. No. 1,389,655; Sept. 6; v. 290; p. 19.
Hagan, Stanley L., Butte, Mont. Register for cameras. No. 1,389,827; Sept. 6; v. 290; p. 54.
Halaska, Charles, Jr., Milwaukee, Wis. Puttying-tool. No. 1,390,126; Sept. 6; v. 290; p. 115.
Hale, Frank A., assignor to Hale Specialty Company, Chicago, Ill. Calendar-pad and holder therefor. No. 1,389,754; Sept. 6; v. 290; p. 39.
Hale Specialty Company. (See Hale, Frank A., assignor.)
Hall, George F., Providence, R. I. Launching device for lifeboats. No. 1,389,869; Sept. 6; v. 290; p. 62.
Hall, Hugh A., Philadelphia, Pa. Automatic restaurant. No. 1,389,656; Sept. 6; v. 290; p. 20.
Halstead, Eugene I., Plainville, Wis. Clock and call bell. No. 1,390,127; Sept. 6; v. 290; p. 115.
Hamel Shoe Machinery Company. (See Angell, Otis R., assignor.)
Hamel Shoe Machinery Company. (See Valois, Felix E., assignor.)
Hamilton, Frederick, Providence, R. I., assignor to American Optical Company, Southbridge, Mass. Eye-testing instrument. No. 1,389,755; Sept. 6; v. 290; p. 39.
Hamilton, Harry. (See Arledge, Elbert H., assignor.)
Hanley, Timothy, East Norfolk, Mass. Convertible furniture. No. 1,389,756; Sept. 6; v. 290; p. 39.
Harp, James M., *et al.* (See Dillet, William H., assignor.)
Harp, William F., *et al.* (See Dillet, William H., assignor.)
Harriman, Paul J., Akron, Ohio. Protractor-scale. No. 1,389,946; Sept. 6; v. 290; p. 78.
Harsley, John W., and M. P. Apgar, New York, N. Y. Combination spring-compressor and spring-clamp. No. 1,389,657; Sept. 6; v. 290; p. 20.
Harvey, Leonard C., Maiden, and H. S. Buckley, Westminster, London, England. Means for feeding powdered fuel to furnaces. No. 1,389,828; Sept. 6; v. 290; p. 54.
Hastings, Walter G., Battle Creek, Mich. Abradant-supplying apparatus. No. 1,390,128; Sept. 6; v. 290; p. 115.
Hassler, Frans, Hamburg, Germany, assignor to A. Kuttroff, New York, N. Y. Readily-soluble tanning agent. No. 1,390,205; Sept. 6; v. 290; p. 129.
Hatten, Edgar O., Evanston, Wyo. Vibrator. No. 1,389,586; Sept. 6; v. 290; p. 5.
Hawthorne, Ellsworth H. (See George, John H., assignor.)
Haynes, Caleb V., Indianapolis, Ind. Airplane-brake. No. 1,389,757; Sept. 6; v. 290; p. 39.
Heath, Andrew E., Footscray, Melbourne, Victoria, Australia. Apparatus for handling of grain in bulk. No. 1,390,032; Sept. 6; v. 290; p. 96.
Heberlein, Christian, London, England. Electrolysing a solution of nickel salt. No. 1,389,829; Sept. 6; v. 290; p. 54.
Hechler, Valentine, assignor to Wilson & Co., Inc., Chicago, Ill. Compounding fats and oils. No. 1,389,947; Sept. 6; v. 290; p. 79.
Heeter, Thomas E., St. Louis, Mo. Loose-leaf book. No. 1,389,658; Sept. 6; v. 290; p. 20.
Henderson, Angus. (See Moore, William E., assignor.)
Henderson, Edwin L., assignor to The Kemper Thomas Company, Norwood, Ohio. Paper chest-protector. No. 1,390,033; Sept. 6; v. 290; p. 96.
Henderson, Monroe L., Moore, Mont. Tire-chain. No. 1,389,870; Sept. 6; v. 290; p. 62.
Hersh, William R., Dayton, Ohio. Apparatus for charging storage batteries. No. 1,389,871; Sept. 6; v. 290; p. 63.
Hesse, Emil C., Chicago, Ill. Snap-hook. No. 1,390,129; Sept. 6; v. 290; p. 115.
Hilborn, Bert E., Spokane, Wash. Clamp. No. 1,389,587; Sept. 6; v. 290; p. 5.
Hoch, Otto M. (See Seymour, C. R., Hoch, and Adams.)
Hoe, R., and Co. (See Johnston, Robert T., assignor.)
Hoe, R., and Co. (See Roesen, Oscar, assignor.)
Hoff, Conrad F. (See Lyons, L. D., and Hoff.)
Holder, William E. (See Bowmar, Gershon, assignor.)
Hollowood, Mathew J., Rochester, N. Y. Receptacle for bacterial cultures. No. 1,389,659; Sept. 6; v. 290; p. 20.
Holmes, Ferdinand M., Everett, Mass. Bookkeeping apparatus and the like. No. 1,389,872; Sept. 6; v. 290; p. 63.
Holmes, George A., Newton Center, Mass., assignor to United States Fastener Company. Stud for snap-fasteners. No. 1,389,758; Sept. 6; v. 290; p. 40.
Homan & Company. (See Dillman, Joseph, assignor.)
Hopkins, Marcus C., Chevy Chase, D. C. Vibration-transmission connection for talking-machines. No. 1,390,206; Sept. 6; v. 290; p. 130.
Hoppe, Herbert P., St. Louis, Mo. Safety-signals for street-cars. No. 1,389,660; Sept. 6; v. 290; p. 21.
Horne, Theodore P., Newport News, Va. Aero-propeller efficiency-indicator. No. 1,389,830; Sept. 6; v. 290; p. 54.
Howard, William C., Kansas City, Mo. Internal-combustion engine. No. 1,390,034; Sept. 6; v. 290; p. 96.
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Howarth, Harry A. S., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,390,131; Sept. 6; v. 290; p. 116.
Howarth, Mark, Padgate, Warrington, England. Continuous wire-drawing machinery. No. 1,390,132; Sept. 6; v. 290; p. 116.
Howell, Charles A. (See Howell, Robert B. and C. A.)
Howell, Robert B., Omaha, Nebr., and C. A. Howell, Ann Arbor, Mich. Gate for pouring pipe-joints. No. 1,390,133; Sept. 6; v. 290; p. 116.
Hudson, Albert E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Perforating. No. 1,389,645; Sept. 6; v. 290; p. 17.
Huff, Sireno E., Greeley, Colo. Ratchet-wrench. No. 1,389,759; Sept. 6; v. 290; p. 40.
Hughes, Dow B., Cleveland, Ohio, assignor, by mesne assignments, to Motor Ignition & Devices Company. Ignition system. No. 1,389,646; Sept. 6; v. 290; p. 17.
Hughes, Dow B., Cleveland, Ohio, assignor, by mesne assignments, to Motor Ignition & Devices Company. Ignition system. No. 1,389,647; Sept. 6; v. 290; p. 18.
Hult, Carl A., Stockholm, Sweden. Four-cycle internal-combustion engine. No. 1,389,873; Sept. 6; v. 290; p. 63.
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Hume, Walter R., Adelaide, South Australia, Australia, assignor to Hume Pipe & Concrete Construction Company, Limited, London, England. Molding of concrete products. No. 1,390,134; Sept. 6; v. 290; p. 116.
Humiston, John M., Chicago, Ill. Rod-coupling. No. 1,389,661; Sept. 6; v. 290; p. 21.
Icy-Hot Bottle Company, The. (See Altenberg, George P., assignor.)
Iddings, Roscoe C., Dayton, Ohio. Fire-extinguisher. No. 1,390,035; Sept. 6; v. 290; p. 96.
Indiana Lamp Company. (See Foster, H. C. and Thomas, assignors.)
Indiana Lamp Company. (See Matteoli, William M., assignor.)
Individual Drinking Cup Company. (See Moore, Hugh, assignor.)
Industrial Track Construction Company. (See Billman, Henry E., assignor.)
Ingersol, John W. (See Thiele, A. A., and Ingersol.)
Ingle, Arthur H. (See Ward, Wallace E., assignor.)

International Moving Picture & Film Company, The. (See Bingham, George W., assignor.)
International Time Recording Company, The. (See Bryce, James W., assignor.)
Irwin, John R., Cobourg, Ontario, Canada. Means for treatment of pyorrhea. No. 1,389,662; Sept. 6; v. 290; p. 21.
Israel, Sidney M., Richmond Hill, N. Y. Electric-light chandelier. No. 1,389,831; Sept. 6; v. 290; p. 55.
Ito Katsuichi, Nishi Ku, Osaka, Japan. Preparing licorice-root extract. No. 1,389,663; Sept. 6; v. 290; p. 21.
Iverson Piano Player Company. (See Peterson, Claus E., assignor.)
Jackson, Arthur A., Long Beach, Calif. Garment. No. 1,389,664; Sept. 6; v. 290; p. 21.
Jacobs, Ernest H., Schenectady, N. Y., assignor to General Electric Company. Electric switch. No. 1,390,036; Sept. 6; v. 290; p. 96.
Jacobson, David L., Jersey City, N. J., assignor to The Koppers Company, Pittsburgh, Pa. Purifying gases. No. 1,390,037; Sept. 6; v. 290; p. 97.
James, Owen, Brooklyn, N. Y. Fountain-brush. No. 1,389,665; Sept. 6; v. 290; p. 25.
Jantsen, Carl C., Portland, Oreg., assignor to Jantsen Knitting Mills. Bathing-suit. No. 1,390,135; Sept. 6; v. 290; p. 116.
Jantsen Knitting Mills. (See Jantsen, Carl C., assignor.)
Jarred, Arthur, London, England. Clock, watch, and the like timekeeping instrument. No. 1,389,666; Sept. 6; v. 290; p. 21.
Johnson, Albert C., Stillwater, Minn. Rotary steam-engine. No. 1,389,874; Sept. 6; v. 290; p. 63.
Johnson, Alfred C., Winters, Calif. Tractor-wheel. No. 1,389,875; Sept. 6; v. 290; p. 63.
Johnston, Robert T., Scotch Plains, N. J., assignor to R. Hoe and Co., New York, N. Y. Plate finishing and cooling machine. No. 1,389,761; Sept. 6; v. 290; p. 40.
Jones, Llewellyn, Muncie, Ind., and C. Westlake, Jr., Youngstown, Ohio. Material for forming brick, tile, and the like. No. 1,390,038; Sept. 6; v. 290; p. 97.
Jones, Ralph E., U. S. Army. Electric bulletin. No. 1,390,039; Sept. 6; v. 290; p. 97.
Joss, Fredrick E. (See Davis, W. H., and Joss.)
Juengst, Charles A., Croton Falls, N. Y., assignor to American Assembling Machine Company, Inc., Memphis, Tenn. Book covering and binding machine. No. 1,389,762; Sept. 6; v. 290; p. 40.
Justrite Manufacturing Company. (See Frisbie, William J., assignor.)
Kadow, August, Toledo, Ohio. Vehicle-body-equalising means. No. 1,389,648; Sept. 7; v. 290; p. 18.
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Karlson, Henry C., *et al.* (See Ahlmgren, Walborg, assignor.)
Keenum, Charles B., Cleveland, Ohio. Vehicle-rim. No. 1,389,649; Sept. 6; v. 290; p. 18.
Keesey, John A., Brooklyn, N. Y. Means for operating signaling devices. No. 1,390,040; Sept. 6; v. 290; p. 97.
Keith, John M., executor. (See Schutt, Richard R.)
Keller, John G., assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Steam-engine. No. 1,389,832; Sept. 6; v. 290; p. 55.
Kemper Thomas Company, The. (See Henderson, Edwin L., assignor.)
Kenny, Walter R., Ottawa, Ontario, Canada. Sound-reproducing machine. No. 1,390,041; Sept. 6; v. 290; p. 97.
Kent, Charles E., assignor of one-fourth to W. L. Bowers, Los Angeles, Calif. Hook. No. 1,389,833; Sept. 6; v. 290; p. 55.
Keppler, Albert C., assignor to Sunderman Corporation, Newburgh, N. Y. Automobile gasoline-shut-off apparatus. No. 1,389,876; Sept. 6; v. 290; p. 64.
Kerestes, George A., assignor to Novelty Amusement Co., Pittsburgh, Pa. Motion-picture and target apparatus. No. 1,389,877; Sept. 6; v. 290; p. 64.
Kern, William A., Ellwood City, assignor to F. Schaefer, Pittsburgh, Pa. Manufacturing brake-levers. No. 1,390,207; Sept. 6; v. 290; p. 130.
Kerngood, Allen H., assignor to Alma Manufacturing Company of Baltimore City, Baltimore, Md. Apparel-buckle. No. 1,389,948; Sept. 6; v. 290; p. 79.
Kerr, Jackson H., *et al.* (See Boswell, David A., assignor.)
Kewell, Charles H., San Francisco, Calif. Spinner. No. 1,389,763; Sept. 6; v. 290; p. 41.
Khalil, Seyed, assignor of forty-five per cent. to I. Stern, Newark, N. J. Motor-vehicle. No. 1,389,764; Sept. 6; v. 290; p. 41.
King & Hamilton Company. (See Gilman, Albert E., assignor.)
King, Percival F., Vancouver, British Columbia, Canada. Automobile-cover. No. 1,390,137; Sept. 6; v. 290; p. 117.
Kingsbury, Albert. (See Howarth, Harry A. S., assignor.)
Kippenhan, William, Kewaskum, Wis. Rod-coupling. No. 1,390,042; Sept. 6; v. 290; p. 96.
Kirkpatrick, Grace E., Leadwood, Mo. Biscuit and doughnut cutter. No. 1,390,138; Sept. 6; v. 290; p. 117.
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Klay, Andrew, Lima, Ohio. Grinder. No. 1,389,588; Sept. 6; v. 290; p. 6.
Knapp, Emanuel W., Nevada, Ohio. Tire-retaining rim for automobile-wheels. No. 1,390,043; Sept. 6; v. 290; p. 96.
Knauber, Albert P. (See Thompson, A. N., and Knauber.)
Knobbs, Charles H., Philadelphia, Pa. Priming-cup. No. 1,390,139; Sept. 6; v. 290; p. 117.
Knoderer, Homer G., Englewood, N. J., assignor to General Electric Company. Chart for selecting outlet-boxes and covers. No. 1,390,044; Sept. 6; v. 290; p. 98.
Knoop Metal Feeder Company. (See Knoop, John H. W., assignor.)
Knoop, John H. W., Highland Park, Pa., assignor to Knoop Metal Feeder Company, Wilmington, Del. Metal-feeder for linotype and similar machines. No. 1,390,140; Sept. 6; v. 290; p. 117.
Knowlton, M. D., Company. (See Seniour, C. R., Hoch, and Adams, assignors.)
Kohn, Sigmund F., New York, N. Y. Toy. No. 1,389,589; Sept. 6; v. 290; p. 6.
Kohanski, August J., Chicago, Ill. Automobile-wheel rim. No. 1,390,141; Sept. 6; v. 290; p. 117.
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Koppers Company, The. (See Ramsburg, Charles J., assignor.)
Kraft, Frederick G., assignor to E. I. du Pont de Nemours, Wilmington, Del. Flow-controller for cellulosic solutions. No. 1,389,834; Sept. 6; v. 290; p. 55.
Kraft, Henry P., Ridgewood, N. J. Extracting-tool. No. 1,389,667; Sept. 6; v. 290; p. 22.
Kramer, Andrew A., Kansas City, Mo. Vehicle-tank construction. No. 1,390,045; Sept. 6; v. 290; p. 98.
Kraut, Hans B. Chicago, Ill. Combination coping and notching machine. No. 1,389,878; Sept. 6; v. 290; p. 64.
Kraut, Hans B., Chicago, Ill. Frame for metal-cutting machines. No. 1,389,879; Sept. 6; v. 290; p. 64.
Kraut, Hans B., Chicago, Ill. Combined punching, shearing, section-cutter, bar-cutter, and coping and notching machine. No. 1,389,880; Sept. 6; v. 290; p. 65.
Kraut, Hans B., Chicago, Ill. Metal-section cutter. No. 1,389,881; Sept. 6; v. 290; p. 65.
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Krueger, Theodore H., New York, N. Y. Making paper-package fasteners. No. 1,390,211; Sept. 6; v. 290; p. 131.
Krueger, Theodore H., New York, N. Y. Machine for making paper-package fasteners. No. 1,390,245; Sept. 6; v. 290; p. 137.
Krump, Nic, Chicago, Ill. Safety-switch for a suspended two-rail track. No. 1,389,668; Sept. 6; v. 290; p. 22.
Kugel, Emil W. R., Benedict, Nebr. Canning apparatus. No. 1,390,142; Sept. 6; v. 290; p. 118.
Kurowski, Alfred G. F., Brooklyn, assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,389,949; Sept. 6; v. 290; p. 79.
Kusterle, Frank, assignor to Simmons Company, Kenosha, Wis. Corner-fastening. No. 1,389,950; Sept. 6; v. 290; p. 79.
Kuttroff, Adolf. (See Gaus, W., and Wild, assignors.)
Kuttroff, Adolf. (See Hassler, Frans, assignor.)
Laise, Clemens A., Weehawken, N. J., assignor, by mesne assignments, to General Electric Company, Schenectady, N. Y. Welding low-melting-point metals and alloys to high-melting-point metals. No. 1,390,243; Sept. 6; v. 290; p. 136.
Lake, Clair D., Binghamton, N. Y., assignor to The Tabulating Machine Company. Attachment for card-sorting machines. No. 1,389,951; Sept. 6; v. 290; p. 79.
Lake, Frederick D. (See Morrison, W. A., and Lake.)
Lamb, Margaret C. T., Bowdon, England. Harness. No. 1,389,882; Sept. 6; v. 290; p. 65.
Lambert, William O., and G. H. Pound, El Paso, Tex. Fiber-extracting machine. No. 1,389,883; Sept. 6; v. 290; p. 65.
Landon, William G., New York, N. Y. Superheater. No. 1,390,046; Sept. 6; v. 290; p. 98.
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Lange, William, New York, N. Y. Spraying-nozzle. No. 1,390,047; Sept. 6; v. 290; p. 99.
Lange, William, New York, N. Y. Spraying-nozzle. No. 1,390,048; Sept. 6; v. 290; p. 99.
Langer, Gotthold L., assignor to Sticky-Fruit Packaging Machine Company, Portland, Oreg. Packaging-machine. No. 1,389,669; Sept. 6; v. 290; p. 22.
Langleb, Louis, New York, N. Y. Pocketbook and the like. No. 1,390,049; Sept. 6; v. 290; p. 99.
Lants, Hugo, New York, N. Y. Brake mechanism. No. 1,389,952; Sept. 6; v. 290; p. 79.
Larson, John V. (See Dies, Charles A., assignor.)
Lasnier, Arthur L., Bristol, Conn. Spring-tire. No. 1,390,143; Sept. 6; v. 290; p. 118.
Launder, John A., assignor to J. A. Launder & Company Limited, Newcastle-upon-Tyne, England. Means for supporting garment-hangers. No. 1,390,144; Sept. 6; v. 290; p. 118.
Launder, J. A., & Company, Limited. (See Launder, John A., assignor.)

Lasenby, William R., Hardin, Mont. Trap. No. 1,389,884; Sept. 6; v. 290; p. 66.
Leas, Frederick A., Manilla, Philippine Islands. Rice rake or harrow. No. 1,390,208; Sept. 6; v. 290; p. 130.
Lecomte, Albert, Thiais, France. Grinding-machine. No. 1,389,835; Sept. 6; v. 290; p. 56.
Lederle, Anton. (See Baumann, Gustav, assignor.)
Lee, Corliss E., Pittsfield, Mass., assignor to General Electric Company. Transformer. No. 1,390,050; Sept. 6; v. 290; p. 99.
Lee Gas Generator Company. (See Lee, Joseph W., assignor.)
Lee, Joseph W., River Forest, Ill., assignor to Lee Gas Generator Company. Gas-generator. No. 1,389,670; Sept. 6; v. 290; p. 22.
Lee, Resie E. (See Stroberger, O., and Lee.)
Lees, Ernest J., assignor to H. T. Bradner, Cleveland, Ohio. Gear-grinder. No. 1,390,145; Sept. 6; v. 290; p. 118.
Leicht, Charles A., Sr. (See Thompson, Carl L., assignor.)
Lektophone Corporation. (See Davis, W. H. and Joss., assignors.)
Leonard, John E., Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co. Adjustable curtain for cameras. No. 1,390,246; Sept. 6; v. 290; p. 137.
Leonard, John E., Los Angeles, Calif., assignor, by mesne assignments, to Mitchell Camera Co. Film-moving mechanism for motion-picture cameras. No. 1,390,247; Sept. 6; v. 290; p. 137.
Levi Strauss & Co. (See Beronio, Fred, assignor.)
Lewis, Frank D., West Orange, N. J., assignor to Pathe Freres Phonograph Company, Brooklyn, N. Y. Stylus-holder for talking-machines. No. 1,389,885; Sept. 6; v. 290; p. 66.
Lewis, Frank D., West Orange, N. J., and Nemnich, New York, N. Y., assignors to Pathe Freres Phonograph Company, Brooklyn, N. Y. Stylus-holder for talking-machines. No. 1,389,886; Sept. 6; v. 290; p. 66.
Leyland, Frederick W., Cambridge, and E. P. Brock, Boston, Mass. Machine for cooling chocolates and the like. No. 1,389,887; Sept. 6; v. 290; p. 66.
Libby, Albion D. T., East Orange, assignor to Splitdorf Electrical Company, Newark, N. J. Impulse-coupling. No. 1,390,146; Sept. 6; v. 290; p. 118.
Liberty Tractor Corporation. (See Neely, Roy J., assignor.)
Library Bureau. (See Gale, Laburton A., assignor.)
Lichter, Adolph H., Toledo, Ohio. Vehicle-top. No. 1,389,671; Sept. 6; v. 290; p. 23.
Light, George K., Brooklyn, N. Y. Pumping device. No. 1,390,031; Sept. 6; v. 290; p. 99.
Lincoln Steel and Forge Company. (See Barks, Frank S., assignor.)
Littell, F. J., Machine Co. (See Swangren, Edwin V. and V., assignors.)
Littlefield, Arlon, Cranston, assignor to New England Butt Company, Providence, R. I. Braiding-machine. No. 1,389,672; Sept. 6; v. 290; p. 23.
Lockhart, George, New York, N. Y. Automobile-signal. No. 1,389,673; Sept. 6; v. 290; p. 23.
Locomobile Company, The. (See Gronquist, Carl G., assignor.)
Loebker, Albert F., Knoxville, Tenn. Spring-motor. No. 1,389,953; Sept. 6; v. 290; p. 80.
Lomb, George W. C., Covington, Ky. Vehicle-tire. No. 1,389,766; Sept. 6; v. 290; p. 41.
Long, James A. (See Bixler, J. F., and Long.)
Lucas, Orlo A., Richwood, W. Va. Box-gluing apparatus. No. 1,390,052; Sept. 6; v. 290; p. 100.
Ludwig, Walter M., Boston, Mass., assignor to Federal Arch-Lift Manufacturing Company. Arch-supporter. No. 1,389,767; Sept. 6; v. 290; p. 41.
Lumatainen, William, Albion, Pa. Tire-chain-connecting device. No. 1,389,590; Sept. 6; v. 290; p. 6.
Lyons, Leo D., and C. F. Hoff, Butte, Mont. Flotation-machine. No. 1,389,674; Sept. 6; v. 290; p. 23.
McArthur, Finley, Cedar Rapids, Iowa. Animal-operated feeding device. No. 1,390,209; Sept. 6; v. 290; p. 130.
McClellan, William J., Attleboro, assignor to Freeman-Daughaday Co., Chartley, Mass. Collar-holder. No. 1,389,675; Sept. 6; v. 290; p. 23.
McClung, James R., Carter, Okla. Cotton-seed-meal press. No. 1,390,053; Sept. 6; v. 290; p. 100.
McCombs, George F., Connersville, Ind. Dental tool for extracting lower molars. No. 1,389,954; Sept. 6; v. 290; p. 80.
McCracken, George B., Willimantic, Conn. Valve. No. 1,389,955; Sept. 6; v. 290; p. 80.
McDade, Andrew J., Brooklyn, N. Y. Calendar. No. 1,389,676; Sept. 6; v. 290; p. 23.
McDavis, John H., Newark, N. J. Medical compound. No. 1,389,677; Sept. 6; v. 290; p. 24.
McFarland, Owen D., assignor to Guyton and Cumfer Manufacturing Company, Chicago, Ill. Flanged coupling for double-pipe conduits. No. 1,389,768; Sept. 6; v. 290; p. 41.
McFeely, Ronald F., deceased, Beverly, by E. M. Sullivan, administrator, Boston, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making shoes. No. 1,389,678; Sept. 6; v. 290; p. 24.
McGowan, Edward, Mulberry, Kans., and P. Upham, Boston, Mass.; said Upham assignor of his entire right to Sullivan Machinery Company, Claremont, N. H. Material-handling apparatus. No. 1,389,885; Sept. 6; v. 290; p. 66.
McKay, Robert J., and F. R. Cooper, Pittsburgh, assignors to The Breakless Staybolt Company. McKees Rocks, Pa. Boiler-brace. No. 1,389,889; Sept. 6; v. 290; p. 67.
McKenna, Philip M., Congress Heights, D. C. Alloy steel. No. 1,389,679; Sept. 6; v. 290; p. 24.
McKenna, Philip M., Congress Heights, D. C. Alloy steel. No. 1,389,680; Sept. 6; v. 290; p. 24.
McKeown, Samuel C., assignor to Splitdorf Electrical Company, Newark, N. J. Starting mechanism for magnetos. No. 1,389,890; Sept. 6; v. 290; p. 67.
McKinley Milton H., Seattle, Wash. Clothesline. No. 1,389,681; Sept. 6; v. 290; p. 24.
McMullen, Allen, Kenwood, assignor to Oneida Community, Limited, Oneida, N. Y. Jaw-trap. No. 1,390,210; Sept. 6; v. 290; p. 130.
McNeely, Marion G., Alpaugh, Calif. Clothes hanger and presser. No. 1,390,054; Sept. 6; v. 290; p. 100.
Macé, Jules, Grasse, France. Lock. No. 1,390,147; Sept. 6; v. 290; p. 119.
Macloskie, George, Erie, Pa., assignor to General Electric Company. Electropneumatic brake. No. 1,390,055; Sept. 6; v. 290; p. 100.
Magin, Michael J., and W. G. Biek, Dowagiac, Mich. Shock-absorber. No. 1,389,591; Sept. 6; v. 290; p. 6.
Marius, Harry. (See Charlton, Robert W., assignor.)
Mardis, Samuel J., Johnstown, Pa. Vehicle-wheel. No. 1,389,891; Sept. 6; v. 290; p. 67.
Marinsky, Davis, New York, N. Y. Retainer for the closure-caps of collapsible tubes. No. 1,389,956; Sept. 6; v. 290; p. 80.
Martin, Elisabeth M., Sterling, Ill. Radiator-brush. No. 1,389,957; Sept. 6; v. 290; p. 80.
Martin, Frederick. (See Downey, Andrew, assignor.)
Massey-Harris Harvester Company. (See Farrall, G. A., and Maul, assignor.)
Massey-Harris Harvester Company. (See Maul, Christian, assignor.)
Mather, Marion, Olean, N. Y. Card-exhibitor. No. 1,389,592; Sept. 6; v. 290; p. 6.
Matteoli, William M., Connersville, Ind., assignor to Indiana Lamp Company. Means for securing lamp-lens closures. No. 1,389,958; Sept. 6; v. 290; p. 81.
Mattivi, Vigilio, assignor of one-third to J. Brunelli and one-third to G. Dick, Walsenburg, Colo. Flying-machine. No. 1,389,959; Sept. 6; v. 290; p. 81.
Maul, Christian. (See Farrall, G. A., and Maul.)
Maul, Christian, assignor to Massey-Harris Harvester Company, Inc., Batavia, N. Y. Harvester. No. 1,389,769; Sept. 6; v. 290; p. 42.
May, Minnie M., Evansville, Ind. Cooking utensil. No. 1,389,770; Sept. 6; v. 290; p. 42.
Maynard, Faye S., Ararat, Pa. Clutch control for automobiles. No. 1,390,148; Sept. 6; v. 290; p. 119.
Meader, Henry I., *et al.* (See Fox, Frederick L., assignor.)
Meese & Gottfried Company. (See Bried, Julien A., assignor.)
Megary, Harry H., New York, N. Y. Folding couch-bed. No. 1,390,248; Sept. 6; v. 290; p. 137.
Meil, Ted J., assignor to The Firestone Tire and Rubber Company, Akron, Ohio. Manufacturing tires and apparatus therefor. No. 1,389,960; Sept. 6; v. 290; p. 81.
Melling, Herbert T., Regina, Saskatchewan, Canada. Manifold-cover. No. 1,389,961; Sept. 6; v. 290; p. 81.
Mellenthin, Edwin E., Waukesha, Wis. Temperature control for radiators. No. 1,389,771; Sept. 6; v. 290; p. 42.
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Mers, Carl L., New York, N. Y. Safety-razor. No. 1,389,962; Sept. 6; v. 290; p. 81.
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Militor Corporation. (See Neuteboom, Boudewijn B., assignor.)
Millar, George A., Ensley, Ala. Air-cushion nozzle. No. 1,389,593; Sept. 6; v. 290; p. 7.
Miller-Argue, Robert A., Essendon, Melbourne, Victoria, Australia. Safety starting device for internal-combustion engines. No. 1,390,149; Sept. 6; v. 290; p. 119.
Miller, Arthur H. (See Miller, Fredrick J. and A. H.)
Miller-Chapman Company. (See Chapman, Earle E., assignor.)
Miller, Frederic R., Brooklyn, assignor to Art Color Motion Picture Co., New York, N. Y. Color cinematography. No. 1,389,963; Sept. 6; v. 290; p. 82.
Miller, Fredrick J. and A. H., Silver City, Iowa. Fountain-paintbrush. No. 1,389,772; Sept. 6; v. 290; p. 42.
Miller, Henry L., Knoxville, Tenn. Trolley-wire support. No. 1,389,773; Sept. 6; v. 290; p. 43.
Miller, Lawrence J., and W. W. Christian, St. Louis, Mo. Automobile-signal. No. 1,390,150; Sept. 6; v. 290; p. 119.
Miltner, Nelson B., Perth Amboy, N. J. Line-holder. No. 1,390,152; Sept. 6; v. 290; p. 119.

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Mitiska, Carl J., Howell, Ind. Stove. No. 1,390,151; Sept. 6; v. 290; p. 119.
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Moenkhaus, Henry H., Evansville, Ind. Cooling-receiver for coffee-roasters. No. 1,389,964; Sept. 6; v. 290; p. 82.
Moller, Edvard M. (See Benedict, H. A., and Moller.)
Mooney, Ernest, York, England. Lubricating device for railway-vehicle axle. No. 1,389,965; Sept. 6; v. 290; p. 82.
Mooney, Melvin, Chicago, Ill. Colorimeter and the like. No. 1,389,836; Sept. 6; v. 290; p. 56.
Moore, Charles A., Elisabeth, and D. K. Thornton, Roselle Park, N. J. Auto-shoe-expanding tool. No. 1,389,837; Sept. 6; v. 290; p. 56.
Moore, George A., Medford, Mass. Sound-box. No. 1,389,683; Sept. 6; v. 290; p. 24.
Moore, Hugh, Leonia, N. J., assignor to Individual Drinking Cup Company, Inc. Paper-cup holder. No. 1,389,594; Sept. 6; v. 290; p. 7.
Moore, William E., assignor to A. Henderson, Chicago, Ill. Cone-baking machine. No. 1,389,774; Sept. 6; v. 290; p. 43.
Moore, William H., Pasadena, Calif. Tire-cover. No. 1,389,838; Sept. 6; v. 290; p. 56.
Morris, Edward B., Vallejo, Calif. Combination gear control and auto-lock. No. 1,389,966; Sept. 6; v. 290; p. 82.
Morrison, William A., and F. D. Lake, St. Catherines, Ontario, Canada. Electric heater. No. 1,389,684; Sept. 6; v. 290; p. 25.
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Muck, John, Milwaukee, Wis. Machine for making wire clothespins. No. 1,389,893; Sept. 6; v. 290; p. 68.
Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,389,775; Sept. 6; v. 290; p. 43.
Mueller, Albert B., Chicago, Ill. Picture-projection apparatus. No. 1,389,776; Sept. 6; v. 290; p. 43.
Mulerts, Catharine D., San Francisco, assignor of one-half to L. R. Taylor, Modesto, Calif. Non-skid tire attachment. No. 1,389,777; Sept 6; v. 290; p. 43.
Mulford, Frank B., St. Louis, Mo. Vehicle-wheel. No. 1,389,778; Sept. 6; v. 290; p. 44.
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Murphy, Peter W., assignor to Murphy Engineering Company, Chicago, Ill. Internal-combustion engine. No. 1,389,967; Sept. 6; v. 290; p. 82.
Murray, William B., Danville, Ill., assignor of one-half to C. D. Townsend, Ironton, Ohio. Ladle. No. 1,390,212; Sept. 6; v. 290; p. 131.
Myhrum, Thomas, Chicago, Ill., assignor to Continental Can Company, Inc., Syracuse, N. Y. Soldering-machine. No. 1,389,894; Sept. 6; v. 290; p. 68.
Nadeau, Joseph, Port Alberni, British Columbia, Canada. Spar-tree cap. No. 1,389,968; Sept. 6; v. 290; p. 82.
Nast, Charles F., Anacortes, Wash. Wrench. No. 1,389,685; Sept. 6; v. 290; p. 25.
National Foundry Company. (See Willis, Andrew H., assignor.)
Naylor, Ira, and J. C. Tucker, Braxton, W. Va. Rail-joint closer. No. 1,390,153; Sept. 6; v. 290; p. 120.
Neale, Herbert H., New York, N. Y. Spring suspension of self-propelled vehicles. No. 1,389,839; Sept. 6; v. 290; p. 56.
Neceda Manufacturing Corporation, The. (See Thompson, A. N., and Knauber, assignors.)
Neely, Roy J., assignor to Liberty Tractor Corporation, Detroit, Mich. Coupling device for vehicles. No. 1,389,840; Sept. 6; v. 290; p. 57.
Nein, William C. (See Varley, T. W., and Nein.)
Nelson, Andrew, Chattanooga, Tenn. Non-skid attachment for vehicle-wheels. No. 1,389,969; Sept. 6; v. 290; p. 83.
Nemnich, Gustave. (See Lewis, F. D., and Nemnich.)
Neuteboom, Boudewijn B., Detroit, Mich., assignor to Militor Corporation, New York, N. Y. Motor suspension. No. 1,390,154; Sept. 6; v. 290; p. 120.
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Nibbe, George W., Chicago, Ill. Tie-plate. No. 1,389,686; Sept. 6; v. 290; p. 25.
Nieberding, Joseph, Baltimore, Md. Docking appliance. No. 1,390,056; Sept. 6; v. 290; p. 101.
Nodon, Albert, Bordeaux, France. Electric accumulator. No. 1,390,155; Sept. 6; v. 290; p. 120.
Noel, Eli, Kansas City, Mo. Universal joint. No. 1,389,970; Sept. 6; v. 290; p. 83.
Noel, Eli, Kansas City, Mo. Universal joint. No. 1,389,971; Sept. 6; v. 290; p. 83.
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O'Connor, Frank M., Mason City, Iowa. Store-fixture. No. 1,389,973; Sept. 6; v. 290; p. 83.
Ogden, Jacob W., assignor to Pitney-Bowes Export Corporation, Stamford, Conn. Postage-meter and mail-marking machine. No. 1,390,156; Sept. 6; v. 290; p. 120.
Ohde, George E., Milwaukee, Wis. Tray. No. 1,390,157; Sept. 6; v. 290; p. 120.
Ohio Body & Blower Company, The. (See Coakley, William B., assignor.)
Okey, George W., Des Moines, Iowa. Pneumatic and cushion tire. No. 1,390,057; Sept. 6; v. 290; p. 101.
Oksenholt, Jens N. (See Texada, D. K., and Oksenholt.)
Olsson, Rangval. (See Thompson, Emil, assignor.)
Olin, Gustaf A., Worcester, Mass. Chuck. No. 1,389,974; Sept. 6; v. 290; p. 84.
Olson, Andrew, assignor to The Cleveland Folding Machine Company, Cleveland, Ohio. Paper-folding machine. No. 1,390,213; Sept. 6; v. 290; p. 131.
Olsson, Anders H. (See Olsson, Karl and A. H.)
Olsson, Karl and A. H., assignors to Aktiebolaget Lidköping Mekaniska Verkstad, Lidköping, Sweden. Lathe-bed. No. 1,389,687; Sept. 6; v. 290; p. 25.
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Oneida Community. (See O'Neil, Jeremiah, assignor.)
O'Neil, Jeremiah, Sherrill, assignor to Oneida Community, Limited, Oneida, N. Y. Game-trap. No. 1,390,214; Sept. 6; v. 290; p. 131.
O'Neil, Jeremiah, Sherrill, assignor to Oneida Community, Limited, Oneida, N. Y. Trap-jaw. No. 1,390,215; Sept. 6; v. 290; p. 131.
O'Neil, Rodolph S., assignor to O'Neil's Recorder Syndicate Limited, London, England. Electrical signaling and indicating device for ships and other vessels. No. 1,389,895; Sept. 6; v. 290; p. 68.
O'Neil's Recorder Syndicate Limited. (See O'Neil, Rodolph S., assignor.)
Ottenheimer, Reuben E., Baltimore, Md. Refrigerator. No. 1,389,898; Sept. 6; v. 290; p. 25.
Owen, Edward C., assignor to S. Owen, Grand Rapids, Mich. Phonograph-horn. No. 1,390,238; Sept. 6; v. 290; p. 135.
Owen, Sovilla. (See Owen, Edward C., assignor.)
P & M Company, The. (See Warr, Harold G., assignor.)
Palmbush, Andrew H., Conrad, Mont. Shock-forming device. No. 1,389,779; Sept. 6; v. 290; p. 44.
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Parker, Victor A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire-mold. No. 1,390,058; Sept. 6; v. 290; p. 101.
Parsons, Frederick W., Cleveland, Ohio. Feeding mechanism for metal-working machines. No. 1,389,975; Sept. 6; v. 290; p. 84.
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Pathe Freres Phonograph Company. (See Lewis, F. D., and Nemnich, assignors.)
Patten, Nathaniel R., Minneapolis, Minn. Doughnut-machine. No. 1,389,976; Sept. 6; v. 290; p. 84.
Paul, Charles P., Texas City, Tex. Waiterless restaurant. No. 1,389,690; Sept. 6; v. 290; p. 26.
Pearson, Severin, Brooklyn, N. Y. Burner-support. No. 1,389,841; Sept. 6; v. 290; p. 57.
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Peet, William, Kansas City, Mo. Box-sealing machine. No. 1,390,059; Sept. 6; v. 290; p. 101.
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Penn Engineering Company. (See Bixler, J. F., and Long, assignors.)
Pennington, Gordon R., Cleveland, and S. K. Wellman, Cleveland Heights, Ohio. Transmission mechanism. No. 1,389,692; Sept. 6; v. 290; p. 26.
Perrin, John G., Detroit, Mich. Automobile-pump. No. 1,389,782; Sept. 6; v. 290; p. 45.
Peters, Frederick J., Milwaukee, Wis. Target. No. 1,389,977; Sept. 6; v. 290; p. 84.
Peterson, Claus E., Worcester, assignor to Iverson Piano Player Company, Boston, Mass. Music-sheet-guiding mechanism. No. 1,389,693; Sept. 6; v. 290; p. 26.
Peterson, Claus E., Worcester, assignor to Iverson Piano Player Company, Boston, Mass. Pneumatic piano-player. No. 1,389,694; Sept. 6; v. 290; p. 27.
Petinot, Napoleon, assignor to United States Ferro-Alloys Corporation, New York, N. Y. Alloy of iron zirconium and silicon and the production thereof. No. 1,389,695; Sept. 6; v. 290; p. 27.
Petinot, Napoleon, New York, N. Y., and B. Turnbull, Niagara Falls, N. Y. Alloy of nickel and iron and the production thereof. No. 1,389,696; Sept. 6; v. 290; p. 27.
Pfau, Arnold, Milwaukee, Wis. Ventilator. No. 1,389,896; Sept. 6; v. 290; p. 68.
Phenix Cheese Company. (See Carpenter, L. E., and Eldredge, assignors.)
Phillips, Byron B., assignor to Gifford-Wood Co., Hudson, N. Y. Ice-saw. No. 1,390,158; Sept. 6; v. 290; p. 121.
Phillips, Donald B., et al. (See Fox, Frederick L., assignor.)
Phillips, Robert E., Portland, Oreg. Wardrobe-trunk. No. 1,389,595; Sept. 6; v. 290; p. 7.
Phipps, Arthur, assignor to Southern-Rome Company, a branch of Rome Metallic Bedstead Company, Baltimore, Md. Double-deck bunk. No. 1,389,697; Sept. 6; v. 290; p. 27.

Pitney-Bowes Export Corporation. (See Ogden, Jacob W., assignor.)
Pitts, William L., Marshall, Tex. Shipping-basket. No. 1,389,897; Sept. 6; v. 290; p. 69.
Plumer, Charles H., Newark, N. J. Cigarette-holder. No. 1,389,842; Sept. 6; v. 290; p. 57.
Posson, Edward, Chicago, Ill. Side bearing for railway-cars. No. 1,389,698; Sept. 6; v. 290; p. 27.
Postel-Vinay, Pierre J. R., Paris, France, assignor to Societe Des Moteurs Salmson (Systeme Canton-Unne), of Billancourt, France. Metal fitting for assembling longitudinals and uprights in aeroplanes. No. 1,390,216; Sept. 6; v. 290; p. 132.
Pound, George H. (See Lambert, W. O., and Pound.)
Poyfaire, Leonard B. (See Georgeson, F. T., Tabor, and Royfaire.)
Praytor, William B., Mount Pleasant, Tex. Showcase or screen. No. 1,389,898; Sept. 6; v. 290; p. 69.
Price, Filmore M., Floydada, Tex. Attachment for broadcast headers. No. 1,390,159; Sept. 6; v. 290; p. 121.
Price, Louis T., Portland, Oreg. Washing-machine. No. 1,390,160; Sept. 6; v. 290; p. 121.
Primrose, John, New York, N. Y. Oil-still. No. 1,389,978; Sept. 6; v. 290; p. 84.
Privett, Charles R., et al. (See Privett, Henry C., assignor.)
Privett, Helen E., et al. (See Privett, Henry C., assignor.)
Privett, Henry C., Long Beach, assignor of one-half to C. R. Privett, Burbank, three-sixteenths to H. E. Privett, and one-sixteenth to H. F. Privett, Long Beach, Calif. Puncture-closing tread-strip. No. 1,390,249; Sept. 6; v. 290; p. 138.
Privett, Hollis F., et. al. (See Privett, Henry C., assignor.)
Raddant, Walter C., Pittsburgh, assignor to Domestic Refrigerating Co., Coraopolis, Pa. Refrigerating-machine. No. 1,390,161; Sept. 6; v. 290; p. 121.
Radey, Joseph F., Cato, Wis. Pumping attachment. No. 1,389,783; Sept. 6; v. 290; p. 45.
Radio Corporation of America. (See Weagant, Roy A., assignor.)
Rahr, Chester E., Brookline, Mass., and C. Russell, Penn Yan, N. Y. Prepared roofing-shingle. No. 1,389,979; Sept. 6; v. 290; p. 85.
Ramsburg, Charles J., Pittsburgh, Pa., assignor to The Koppers Company. Apparatus and process for purifying gases. No. 1,389,980; Sept. 6; v. 290; p. 85.
Randall, Clifford R., Council Bluffs, Iowa. Automatic cash-drawer. No. 1,389,981; Sept. 6; v. 290; p. 85.
Ratel, Maurice, New York, N. Y. Automatic stoker of the underfeed type. No. 1,389,982; Sept. 6; v. 290; p. 85.
Raven, Glean S., Watertown, N. Y. License-number plate for automobiles. No. 1,389,983; Sept. 6; v. 290; p. 85.
Rea, Thomas K., Charlotte, N. C. Lease comb and reed. No. 1,390,162; Sept. 6; v. 290; p. 121.
Race, Frank S., and A. P. Cunningham, Dallas, Tex. Poultry-killer. No. 1,389,784; Sept. 6; v. 290; p. 45.
Reed, Evan L., Sterling, Ill. Rack for glass globes. No. 1,389,984; Sept. 6; v. 290; p. 86.
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Reimann, Adolph H., Detroit, Mich. Curtain-guard for windows. No. 1,389,843; Sept. 6; v. 290; p. 57.
Rejkowski, Martin, Akron, Ohio. Vegetable slicing and chopping machine. No. 1,390,217; Sept. 6; v. 290; p. 132.
Remington Arms Company. (See Garrison, George H., assignor.)
Reynolds, Harry R., assignor to The Fafnir Bearing Company, New Britain, Conn. Shaft-hanger bearing. (Reissue.) No. 15,187; Sept. 6; v. 290; p. 140.
Rhodes, William A., New York, N. Y., assignor to American Telephone and Telegraph Company. Desk-operator's circuits. No. 1,389,596; Sept. 6; v. 290; p. 7.
Riblet, Byron C. (See Riblet, Royal N., assignor.)
Riblet, Royal N., assignor of one-half to B. C. Riblet, Spokane, Wash. Cable-repair device. No. 1,389,785; Sept. 6; v. 290; p. 45.
Richey, Frank W., assignor to W. F. Richey, Chicago, Ill. Display-clip. No. 1,390,163; Sept. 6; v. 290; p. 122.
Ridgers, Frederick G., Hamilton, Ontario, Canada. Goggles. No. 1,389,985; Sept. 6; v. 290; p. 86.
Riggs, Fletcher S., Marshall, Tex. Switch. No. 1,389,899; Sept. 6; v. 290; p. 69.
Rintenpart, Chester H., Thousand Oaks, Calif. Adjustable tray. No. 1,389,986; Sept. 6; v. 290; p. 86.
River, Adolph, Brooklyn, N. Y. Nail driving and setting machine. No. 1,390,060; Sept. 6; v. 290; p. 101.
Rivett, Edward, Hull, Mass. Endless belt or cord and machine and process for making the same. No. 1,289,699; Sept. 6; v. 290; p. 27.
Robinson, Arthur D., St. Louis, Mo. Desiccating apparatus. No. 1,389,597; Sept. 6; v. 290; p. 7.
Robinson, Daniel P., Baltimore, Md., assignor to Continental Can Company, Inc., Syracuse, N. Y. Hermetically attaching can ends to can-bodies. No. 1,389,900; Sept. 6; v. 290; p. 69.
Rockwood Sprinkler Company of Massachusetts. (See Carlson, Hjalmar G.)
Rodin, Charles F., assignor of one-half to John Erikson, San Francisco, Calif. Shock-absorber. No. 1,389,987; Sept. 6; v. 290; p. 86.
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Rodrigues, Mathias B., London, England. X-ray apparatus. No. 1,390,250; Sept. 6; v. 290; p. 138.
Roesen, Oscar, assignor to R. Hoe and Co., New York, N. Y. Plate cooling and finishing machine. No. 1,389,844; Sept. 6; v. 290; p. 57.
Rose, Ralph G., Catesby, Okla. Nut-lock. No. 1,389,845; Sept. 6; v. 290; p. 57.
Rose, William A., Peekskill, N. Y. Oar. No. 1,389,988; Sept. 6; v. 290; p. 86.
Rosenbluth, Edwin M., Wallingford, Pa. Automobile accessory. No. 1,389,901; Sept. 6; v. 290; p. 69.
Rosenthal, Morris G., Cincinnati, Ohio. Label-feeding means for automatic label and patch stitching machines. No. 1,389,598; Sept. 6; v. 290; p. 8.
Ross, Oscar A., New York, N. Y. Self-starter or the like. No. 1,389,701; Sept. 6; v. 290; p. 28.
Ross, Oscar A., New York, N. Y. Telephone instrument or the like. No. 1,389,902; Sept. 6; v. 290; p. 69.
Ross, William L., Porterville, Calif. Frost-preventing device for orchards. No. 1,389,989; Sept. 6; v. 290; p. 86.
Rosselot, Oliver J., Kokomo, Ind. Burner for heating-stoves. No. 1,389,990; Sept. 6; v. 290; p. 86.
Roth, Elias. (See Seelig, Bernard, assignor.)
Rouse, Lovell M., Portland, Oreg. Bottle-capper. No. 1,389,786; Sept. 6; v. 290; p. 46.
Rowland, Charles E., Toledo, Ohio. Portable carrying means for electric generator sets. No. 1,389,903; Sept. 6; v. 290; p. 70.
Roy, Alfred A., Lowell, Mass., and P. J. Landry, Pelham, N. H. Multiple-feed circular spring-needle knitting-machine. No. 1,390,164; Sept. 6; v. 290; p. 122.
Rudolph, Herbert F., Milwaukee, Wis. T-square guide. No. 1,389,904; Sept. 6; v. 290; p. 70.
Russell, Calvin. (See Rahr, C. E. and Russell.)
Russell, William C., East Sheen, England. Airscrew having adjustable blades. No. 1,389,991; Sept. 6; v. 290; p. 87.
Sadler, Edward C., assignor to T. Bergmann, Portland, Oreg. Calk-lock. No. 1,390,165; Sept. 6; v. 290; p. 122.
Salgee, Charles P., Philadelphia, Pa. Means and method for making signs. No. 1,390,166; Sept. 6; v. 290; p. 122.
Sand, William G. (See Wood, W. J., and Sands.)
Sarfaty, Morton P., New York, N. Y. Photographic camera. No. 1,389,992; Sept. 6; v. 290; p. 87.
Sauset, Peter, Bonn, Germany. Machine for cleaning builders' planks from cement. No. 1,390,218; Sept. 6; v. 290; p. 132.
Savage, Arthur J., San Diego, Calif. Vulcaniser. No. 1,389,588; Sept. 6; v. 290; p. 8.
Scavini, Enrico, Turin, Italy. Manufacturing heads of puppets, dolls, and like articles. No. 1,389,905; Sept. 6; v. 290; p. 70.
Schacht, Louis L., New York, N. Y. Flashlight-torch. No. 1,389,702; Sept. 6; v. 290; p. 28.
Schaefer, Frederic. (See Kern, William A., assignor.)
Schmidt, Frank, Swanwick, Ill. Calf-weaner. No. 1,390,061; Sept. 6; v. 290; p. 102.
Schoenfeld, Henry F., Roseburg, Oreg. Truss. No. 1,389,600; Sept. 6; v. 290; p. 8.
Schoenthal, Fred C., Buffalo, N. Y. Disk wheel. No. 1,389,601; Sept. 6; v. 290; p. 8.
Schöppner, William C., Astoria, N. Y. Process and apparatus for refining chocolate and the like. No. 1,390,251; Sept. 6; v. 290; p. 138.
Schuls, John C., Stockport, Iowa. Breeding-crate. No. 1,389,993; Sept. 6; v. 290; p. 87.
Schumaker, Charles F., St. Louis, Mo. Fence-stretcher. No. 1,389,994; Sept. 6; v. 290; p. 87.
Schuster, Harold C., Oconomowoc, Wis. Spring-leaf spreader. No. 1,390,167; Sept. 6; v. 290; p. 122.
Schutt, Richard R., deceased; J. M. Keith, executor, San Jose, Costa Rica, assignor to United Fruit Company, Boston, Mass. Loading device. No. 1,389,995; Sept. 6; v. 290; p. 88.
Schweyer, Daniel H., Easton, Pa. Automatic train-control system. No. 1,389,602; Sept. 6; v. 290; p. 8.
Scott, Ephriam J. (See Bowen, Eugene F., assignor.)
Scott, Reid B., Naugatuck, Conn., assignor to The Goodyear's Metallic Rubber Shoe Company. Lasting-jack. No. 1,389,846; Sept. 6; v. 290; p. 58.
Scott, William M., Tredyffrin township, Chester county, Pa. Switching apparatus. No. 1,389,996; Sept. 6; v. 290; p. 88.
Sears, Joseph M., Lockhart, Tex. Automobile attachment. No. 1,389,847; Sept. 6; v. 290; p. 58.
Sedgwick, Stanley W., Edmonton, Alberta, Canada. Fluid-conducting structure. No. 1,389,997; Sept. 6; v. 290; p. 88.
Seelig, Bernard, assignor of one-half to E. Roth, New York, N. Y. Scraper attachment. No. 1,390,168; Sept. 6; v. 290; p. 123.
Segal, Isaac, New York, N. Y. Fabric-laying apparatus. No. 1,389,906; Sept. 6; v. 290; p. 70.
Seifried, Clarence K., Grayville, Ill. Harrow. No. 1,390,169; Sept. 6; v. 290; p. 123.
Seymour, Charles R., O. M. Hoch, and T. W. Adams, assignors to M. D. Knowlton Company, Rochester, N. Y. Circuit-closer for sheet-trips. No. 1,389,998; Sept. 6; v. 290; p. 88.
Shackleford, Franklin T., Minneapolis, Minn. Amplifier for sound-reproducing machines. No. 1,389,999; Sept. 6; v. 290; p. 89.

Shaffer, William H., Cumberland, Md. Lard and butter cutter. No. 1,390,170; Sept. 6; v. 290; p. 123.
Shaker-Dump Coal Grate Co. (See Tatum, James W., assignor.)
Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Can heading and flanging machine. No. 1,389,703; Sept. 6; v. 290; p. 28.
Sharp, Lee C., Plattsmouth, Nebr., assignor to American Can Company, New York, N. Y. Can-closing machine. No. 1,389,704; Sept. 6; v. 290; p. 29.
Sharps, John A. (See Cutright, I. G., and Sharps.)
Sharps, John A., and I. G. Cutright, assignors to Cutright Sharps Company, Inc., Buckhannon, W. Va. Shade-roller fixture. No. 1,389,603; Sept. 6; v. 290; p. 9.
Shepard, Oscar F., assignor to The Warner Elevator Mfg. Company, Cincinnati, Ohio. Control for electric motors. No. 1,390,259; Sept. 6; v. 290; p. 140.
Sherwood, William, Detroit, Mich. Water-inlet valve for tanks. No. 1,389,907; Sept. 6; v. 290; p. 71.
Shewell, Carroll. (See Dettinger, M. L., Wesper, and Shewell.)
Shults, Harry, and C. R. Dunn, Gloversville, N. Y. Dish-drainer. No. 1,389,908; Sept. 6; v. 290; p. 71.
Sickmann, Henry C., Marthasville, Mo. Rail-fastener. No. 1,389,705; Sept. 6; v. 290; p. 29.
Silverman, Charles, Providence, R. I. Collar-holder. No. 1,389,604; Sept. 6; v. 290; p. 9.
Simmons Company. (See Bayer, Matthew F., assignor.)
Simmons Company. (See Kusterle, Frank, assignor.)
Simmons Company. (See Travis, Don C., assignor.)
Singer Manufacturing Company, The. (See De Voe, Albert H., assignor.)
Skinner, Ralph L., Sacramento, Calif. Indicator. No. 1,389,909; Sept. 6; v. 290; p. 71.
Slater, Jasper P., assignor of one-half to J. M. Chase, Charleston, W. Va. Horseshoe. No. 1,390,171; Sept. 6; v. 290; p. 123.
Smith, Arthur R., Schenectady, N. Y., assignor to General Electric Company. Power plant. No. 1,390,062; Sept. 6; v. 290; p. 102.
Smith, Claude de F., assignor to Smith Signal Corporation, New York, N. Y. Three-way switch. No. 1,389,848; Sept. 6; v. 290; p. 58.
Smith, Ervin H., New London, Wis. Price tag or card holder. No. 1,390,172; Sept. 6; v. 290; p. 123.
Smith, George L., Washington, D. C. Collapsible top-frame for vehicles. No. 1,390,219; Sept. 6; v. 290; p. 132.
Smith, George L., Washington, D. C. Collapsible top-frame for vehicles. No. 1,390,220; Sept. 6; v. 290; p. 132.
Smith, Graham, Savannah, Ga. Operating mechanism for the ignition-generators of internal-combustion engines. No. 1,389,706; Sept. 6; v. 290; p. 29.
Smith-Hecht Company. (See Smith, Herman E., assignor.)
Smith, Herman E., assignor to Smith-Hecht Company, Indianapolis, Ind. Electrical display-sign. No. 1,389,707; Sept. 6; v. 290; p. 29.
Smith, James C., Havana, Ark. Corn and cotton chopper. No. 1,390,173; Sept. 6; v. 290; p. 124.
Smith, Joseph T., London, England. Color photography. No. 1,390,252; Sept. 6; v. 290; p. 138.
Smith, Marion A., Salt Lake City, Utah. Beet-topping apparatus. No. 1,389,708; Sept. 6; v. 290; p. 29.
Smith Signal Corporation. (See Smith, Claude de F., assignor.)
Societe Anonyme des Etablissements Delaunay Belleville. (See Bourdelles, Emile A. L., assignor.)
Société Anonyme Etablissements L. Blériot. (See Bossu, Pierre, assignor.)
Societe des Moteurs Salmson (Systeme Canton-Unne.) (See Postel-Vinay, Pierre, J. R., assignor.)
Societe des Navires en Ciment Armé. (See Freyssinet, Eugène, assignor.)
Société Fabriques de Produits Chimiques de Thann et de Mulhouse. (See Comment, Paul, assignor.)
Soravia, Joseph. (See Winquist, F., and Soravia.)
Southern-Rome Company. (See Phipps, Arthur, assignor.)
Specker, John E., Ree Heights, S. D. Automatic door. No. 1,390,174; Sept. 6; v. 290; p. 124.
Spiess, Paul, Zurich, Switzerland. Multistage axial-flow steam or gas turbine. No. 1,389,910; Sept. 6; v. 290; p. 71.
Spiro, Charles, assignor to Federal Adding Machine Corporation, New York, N. Y. Typewriter. No. 1,389,911; Sept. 6; v. 290; p. 71.
Splitdorf Electrical Company. (See Libby, Albion, D. T., assignor.)
Splitdorf Electrical Company. (See McKeown, Samuel C., assignor.)
Spyer, Arthur, London, England, assignor to The Babcock & Wilcox Company, Bayonne, N. J. Boiler-furnace. No. 1,390,225; Sept. 6; v. 290; p. 132.
Stageman, Harry C., Council Bluffs, Iowa. Phonograph sound-regulator. No. 1,389,605; Sept. 6; v. 290; p. 9.
Standard Coin Counter. (See Donnellan, Edward P., assignor.)
Stanley, Thomas R., Oil City, Pa. Coupling for rods. No. 1,389,787; Sept. 6; v. 290; p. 46.
Stead, Ernest, Binghamton, N. Y. Device for positioning and measuring optical axes of lenses in edge-grinding machines. No. 1,389,912; Sept. 6; v. 290; p. 72.
Steger, August, assignor of one-fourth to G. A. Woodman, Chicago, Ill. Car-ventilator. No. 1,389,788; Sept. 6; v. 290; p. 46.
Stehli Silks Corporation. (See Bonner, Paul H., assignor.)
Stephens, Albert G., Indianapolis, Ind. Sanitary display-case. No. 1,390,000; Sept. 6; v. 290; p. 89.
Stephens, Milo M. and W., Lakeview, Mich. Potato-picker. No. 1,389,789; Sept. 6; v. 290; p. 46.
Stephens, William. (See Stephens, Milo M. and W.)
Stern, Isador. (See Khalil, Seyed, assignor.)
Stern, Mitchel, Philadelphia, Pa. Backrest for bathtubs. No. 1,390,221; Sept. 6; v. 290; p. 132.
Sternau, S., & Company. (See Ball, Henry P., assignor.)
Sternau, S., & Co. (See Fisher, Harry L., assignor.)
Sternberg, William D., London, England. Heel of boots and shoes. No. 1,389,913; Sept. 6; v. 290; p. 72.
Sticky-Fruit Packaging Machine Company. (See Langer, Gotthold L., assignor.)
Stillwagon, George B., Redstone township, Fayette county, Pa. Commercial instrument. No. 1,389,849; Sept. 6; v. 290; p. 58.
Stone, Reuben, Ogema, Wis. Envelop-ejector. No. 1,390,175; Sept. 6; v. 290; p. 124.
Stroberger, Otto, and R. E. Lee, Creighton, Nebr. Engine-cylinder dresser. No. 1,389,850; Sept. 6; v. 290; p. 58.
Struve, Albert H., Pocatello, Idaho. Washing device. No. 1,390,176; Sept. 6; v. 290; p. 124.
Stumpf Una-Flow Engine Company. (See Turnwald, Wolfgang, assignor.)
Stubber, Morris, Philadelphia, Pa. Window and door lock. No. 1,389,709; Sept. 6; v. 290; p. 30.
Sullivan, E. Mark, administrator. (See McFeely, Ronald F.)
Sullivan Machinery Company. (See McGowan, E., and Upham, assignors.)
Sulzberger, Nathan, New York, N. Y. Salts of aromatic hydroxyl amins. No. 1,390,260; Sept. 6; v. 290; p. 140.
Sunderman Corporation. (See Keppler, Albert C., assignor.)
Swangren, Edwin V. and V., Maywood, assignor to F. J. Littell Machine Co., Chicago, Ill. Work-piece-feeding mechanism. No. 1,389,790; Sept. 6; v. 290; p. 46.
Swangren, Victor. (See Swangren, Edwin V. and V.)
Synck, Henry, assignor, by mesne assignments, to The New Idea Spreader Company, Coldwater, Ohio. Bearing for spreader-shafts. No. 1,389,606; Sept. 6; v. 290; p. 9.
Tabler, Frank C., assignor to The Anti-Bacilli Company, St. Louis, Mo. Antiseptic mouthpiece for telephones. No. 1,389,914; Sept. 6; v. 290; p. 72.
Tabor, Clarence E. (See Georgeson, F. F., Tabor, and Poyfaire.)
Tabulating Machine Company, The. (See Lake, Clair D., assignor.)
Talbert, Harry P., *et al.* (See Boswell, David A., assignor.)
Tannehill, Arthur L., Gary, Ind. Producing artificial resin. No. 1,389,791; Sept. 6; v. 290; p. 47.
Tatum, James W., assignor to Shaker-Dump Coal-Grate Co., Durham, N. C. Coal-grate. No. 1,389,792; Sept. 6; v. 290; p. 474.
Taylor, Henry W., Bilton, and F. H. Clough, Rugby, England, assignors to General Electric Company. Winding for dynamo-electric machines. No. 1,390,063; Sept. 6; v. 290; p. 102.
Taylor, Henry W., Bilton, and F. H. Clough, Rugby, England, assignors to General Electric Company. Winding for dynamo-electric machines. No. 1,390,064; Sept. 6; v. 290; p. 102.
Taylor, Levin G., Tampa, Fla. Combination seat and bed for automobiles. No. 1,390,177; Sept. 6; v. 290; p. 124.
Taylor, Loyd R. (See Mulerts, Catharine D., assignor.)
Taylor, William H., Des Moines, Iowa. Window-frame and chute structure. No. 1,390,178; Sept. 6; v. 290; p. 125.
Teitsch, Marx. (See Ambühl, R., and Teitsch.)
Teter, Jacob P. (See Drake, Elmer C., assignor.)
Texada, Davidson K., and J. N. Oksenholt, Boyce, La. Automatic fuel-saver. No. 1,390,179; Sept. 6; v. 290; p. 125.
Thackray, George E., Westmont borough, Pa. Draft-rigging. No. 1,389,793; Sept. 6; v. 290; p. 47.
Thiele, Adolph A., and J. W. Ingersoll, Omaha, Nebr., assignors to American Smelting and Refining Company, New York, N. Y. Lead-stacking machine. No. 1,389,794; Sept. 6; v. 290; p. 47.
Thomas, George H., assignor to Flexible Couplings Company, Westfield, N. Y. Universal joint. No. 1,389,915; Sept. 6; v. 290; p. 72.
Thomas, Hanson, Pittsburgh, Pa. Feeding mechanism for bolt-machines. No. 1,389,916; Sept. 6; v. 290; p. 72.
Thomas, Lloyd E., Detroit, Mich. Combined badge and detachable watch-guard. No. 1,389,711; Sept. 6; v. 290; p. 30.
Thomas, William C., J. C. Dickens, and J. W. Fowler, Goose Creek, Tex. Device for unscrewing and withdrawing pipe. No. 1,389,710; Sept. 6; v. 290; p. 30.
Thompson, Albert E., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Peach-pitter. No. 1,389,795; Sept. 6; v. 290; p. 47.
Thompson, Albert E., assignor to Anderson-Barngrover Mfg. Co., San Jose, Calif. Peeling fruit. No. 1,389,796; Sept. 6; v. 290; p. 47.
Thompson, Arthur N., Milwaukee, and A. P. Knauber, Wauwatosa, assignors to The Necedah Manufacturing Corporation, Necedah, Wis. Motor-propeller for boats. No. 1,389,712; Sept. 6; v. 290; p. 30.

Thompson, Carl L., assignor of one-half to C. A. Leicht, Sr., New Lisbon, Wis. Brake mechanism for trucks. No. 1,389,917; Sept. 6; v. 290; p. 73.
Thompson, Emil, assignor of one-half to R. Olsson, Omaha, Nebr. Electrical wall-switch. No. 1,389,713; Sept. 6; v. 290; p. 31.
Thompson, Ida J., Lincoln, Nebr. Antiskid device. No. 1,389,607; Sept. 6; v. 290; p. 9.
Thompson, Robert M., Tacoma, Wash. Airplane. No. 1,389,797; Sept. 6; v. 290; p. 48.
Thoms, William F. (See Foster, H. C., and Thoms.)
Thornton, David K. (See Moore, C. A., and Thornton.)
Towers, Augustus R., Richmond, Va. Record and reference book. (Reissue.) No. 15,189; Sept. 6; v. 290; p. 140.
Townsend, Clark D. (See Murray, William B., assignor.)
Traeger, Alfred H., Kensington Gardens, South Australia, Australia. Combined variable-speed, clutch, and free-wheel device for motorcycles. No. 1,390,065; Sept. 6; v. 290; p. 102.
Travis, Don C., assignor to Simmons Company, Kenosha, Wis. Mattress-frame. No. 1,389,918; Sept. 6; v. 290; p. 73.
Trinks, Franz, Brunswick, Germany. Calculating-machine. No. 1,390,180; Sept. 6; v. 290; p. 125.
Tromlitz, Oscar, Cleveland, Ohio. Vehicle-wheel. No. 1,389,798; Sept. 6; v. 290; p. 48.
Troolin, Erick, Braham, Minn. Form for concrete walls. No. 1,390,066; Sept. 6; v. 290; p. 103.
Trueman, Charles J., Baltimore, Md. Pipe-fitting. No. 1,389,608; Sept. 6; v. 290; p. 9.
Tscherne, Alois, Rorschach, Switzerland. Machine for piling fabric. No. 1,390,253; Sept. 6; v. 290; p. 138.
Tscherne, Alois, Rorschach, Switzerland. Machine for cutting embroidery. No. 1,390,254; Sept. 6; v. 290; p. 139.
Tucker, James C. (See Naylor, I., and Tucker.)
Turnbull, Robert. (See Petinot, N., and Turnbull.)
Turnwald, Wolfgang, Syracuse, N. Y., assignor to Stumpf Una-Flow Engine Company. Auxiliary clearance-valve. No. 1,390,239; Sept. 6; v. 290; p. 136.
Underwood Typewriter Company. (See Kurowski, Alfred G. F., assignor.)
Underwood Typewriter Company. (See Waldheim, John, assignor.)
United Fruit Company. (See Schutt, Richard R., assignor.)
United Shoe Machinery Corporation. (See Glass, Perley R., assignor.)
United Shoe Machinery Corporation. (See Hadaway, John B., assignor.)
United Shoe Machinery Corporation. (See Hudson, Albert E., assignor.)
United Shoe Machinery Corporation. (See McFeely, Ronald F., assignor.)
United States Fastener Company. (See Holmes, George A., assignor.)
United States Ferro-Alloys Corporation. (See Petinot, Napoleon, assignor.)
Upham, Preston. (See McGowan, E., and Upham.)
Usher, Ruth H, Brooklyn, N. Y. Doll. (Reissue.) No. 15,188; Sept. 6; v. 290; p. 140.
Von Babo, Max, Seattle, Wash. Automobile attachment. No. 1,389,717; Sept. 6; v. 290; p. 32.
Van Etten, Frank C., Chicago, Ill. Portable drafting outfit. No. 1,390,181; Sept. 6; v. 290; p. 125.
Van Gelder, Moses, Chicago, Ill. Mattress. No. 1,389,715; Sept. 6; v. 290; p. 31.
Valois, Felix E., Haverhill, Mass., assignor to Hamel Shoe Machinery Company. Sole-laying machine. No. 1,389,714; Sept. 6; v. 290; p. 31.
Vansickle, Fred M., Lewiston, Idaho. Illuminated sign. No. 1,389,799; Sept. 6; v. 290; p. 48.
Van Vleet, Roy M., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Electric generating system. No. 1,389,716; Sept. 6; v. 290; p. 31.
Varley, Thomas W., and W. C. Nein, New York, N. Y. Railway-crossing signal. No. 1,390,067; Sept. 6; v. 290; p. 103.
Varley, Thomas W., and W. C. Nein, New York, N. Y. Crossing-signal. No. 1,390,068; Sept. 6; v. 290; p. 103.
Vaudreuil, John, Milwaukee, Wis. Spray. No. 1,390,069; Sept. 6; v. 290; p. 103.
Villaret, Gustave E., New York, N. Y. Lamp. No. 1,390,070; Sept. 6; v. 290; p. 103.
Vilter Manufacturing Company, The. (See Keller, John G., assignor.)
Waldheim, John, Elisabeth, N. J., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,389,718; Sept. 6; v. 290; p. 32.
Walker, Sanders, Wichita Falls, Tex. Carburetor. No. 1,389,719; Sept. 6; v. 290; p. 32.
Waller, Paul H., Camberwell, London, England. Signaling or indicating apparatus. No. 1,390,001; Sept. 6; v. 290; p. 89.
Ward, Charles A., Mount Vernon, N. Y. Lubricating means and process. No. 1,389,720; Sept. 6; v. 290; p. 32.
Ward, Wallace E., assignor to A. H. Ingle, Rochester, N. Y. Headstock mechanism of lathes. No. 1,389,919; Sept. 6; v. 290; p. 73.
Ware, William P., Alderson, W. Va. Railway street and road crossing. No. 1,390,182; Sept. 6; v. 290; p. 126.
Warner Elevator Mfg. Company. (See Shepard, Oscar F., assignor.)
Warr, Harold G., Park Ridge, assignor to The P & M Company, Chicago, Ill. Rail-anchor. No. 1,389,721; Sept. 6; v. 290; p. 33.
Weagant, Roy A., New York, N. Y., assignor, by mesne assignments, to Radio Corporation of America. Radio-signaling apparatus. No. 1,389,800; Sept. 6; v. 290; p. 48.
Weaver, Paul, Tampico, and H. C. Craig, Portrero del Llamo Camp, Mexico, assignor of one-half to Whitehall Petroleum Corporation, Limited, London, England. Well. No. 1,389,920; Sept. 6; v. 290; p. 73.
Webb, John G., Richmond, Va. Mold for plural castings. No. 1,389,722; Sept. 6; v. 290; p. 33.
Weiher, George F., Dayton, Ohio. Aeroplane-propeller. No. 1,389,609; Sept. 6; v. 290; p. 10.
Weiler, George L., Elyria, Ohio. Measuring device. No. 1,389,723; Sept. 6; v. 290; p. 33.
Wellman, Frank E., assignor to The Kansas City Gasoline Company, Kansas City, Kans. Refining liquid hydrocarbons. No. 1,390,002; Sept. 6; v. 290; p. 89.
Wells, John, Cairo, Egypt. Gas-cleaning apparatus. No. 1,390,183; Sept. 6; v. 290; p. 126.
Wesper, John A. (See Dettinger, M. L., Wesper, and Shewell.)
Westlake, Charles, Jr. (See Jones, L., and Westlake, Jr.)
Wetzstein, Henry A., Brooklyn, N. Y. Tool. No. 1,390,071; Sept. 6; v. 290; p. 104.
Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Automatic governing mechanism for internal-combustion engines. No. 1,389,801; Sept. 6; v. 290; p. 48.
Whitehall Petroleum Corporation. (See Weaver, P., and Craig, assignors.)
Whitehead, Oliver W., near Dayton, Ohio. Sash-lifting device for automobiles. No. 1,390,003; Sept. 6; v. 290; p. 89.
Whitehead, Thomas, Blackpool, England. Apparatus for spinning, doubling, and twisting yarns for threads of fibrous substances. No. 1,389,921; Sept. 6; v. 290; p. 74.
Widness, Lawrence J., Brooklyn, N. Y. Toy. No. 1,389,802; Sept. 6; v. 290; p. 48.
Wild, Wilhelm. (See Gaus, W., and Wild.)
Wilde, G. F., Limited. (See Worsley, Ernest, assignor.)
Willett, Benedict E., near Dayton, Ohio. Tank-truck. No. 1,389,724; Sept. 6; v. 290; p. 33.
Williams, Geoffrey W., Burgess Hill, England. Phonograph-record cabinet. No. 1,389,610; Sept. 6; v. 290; p. 10.
Willis, Andrew H., assignor to National Foundry Company, Erie, Pa. Pouring steel. No. 1,389,725; Sept. 5; v. 290; p. 33.
Willman, Samuel K. (See Pennington, G. R., and Wellman.)
Wilson & Co. (See Hechler, Valentine, assignor.)
Wilson Welder & Metals Company. (See Churchward, Alexander, assignor.)
Wilson, Wilfred A., London, England. Cuff-link, stud, solitaire, tie ornament, and the like. No. 1,390,255; Sept. 6; v. 290; p. 139.
Windecker, Martin, Ruddock, La. Soap-holder. No. 1,390,184; Sept. 6; v. 290; p. 126.
Winquist, Fritz, Chicago, and J. Soravia, Oak Park, Ill. Stringed musical instrument. No. 1,390,004; Sept. 6; v. 290; p. 90.
Winship, Boit & Co. (See Winship, Charles N., assignor.)
Winship, Charles N., assignor to Winship, Boit & Co., Wakefield, Mass. Union-suit. No. 1,389,922; Sept. 6; v. 290; p. 74.
Wise, Solomon, Cincinnati, Ohio. Lock. No. 1,390,222; Sept. 6; v. 290; p. 133.
Wolcott, Frank E., Hartford, Conn. Dish-washing machine. No. 1,390,223; Sept. 6; v. 290; p. 133.
Wolcott, Frank E., Hartford, Conn. Washing-machine. No. 1,390,224; Sept. 6; v. 290; p. 133.
Wold, Charles J., Grantsburg, Wis. Cant-hook and carrier. No. 1,390,185; Sept. 6; v. 290; p. 126.
Wolfe, Frank D., San Jose, Calif. Reinforced concrete construction. No. 1,389,803; Sept. 6; v. 290; p. 49.
Wolter, Fred W., Cuero, Tex. Clevis attachment for plows. No. 1,390,240; Sept. 6; v. 290; p. 136.
Wood, Walter J., Newark, and W. G. Sand, Irvington, N. J. Game apparatus. No. 1,389,611; Sept. 6; v. 290; p. 10.
Wooddell, George C., and H. C. Reeser, Dayton, Ohio. Power agricultural implement. No. 1,389,612; Sept. 6; v. 290; p. 10.
Woodman, George A. (See Steger, August, assignor.)
Worley, Clarence G., Marietta, Ga. Automobile-headlight. No. 1,389,726; Sept. 6; v. 290; p. 33.
Worsley, Ernest, Blackley, assignor to G. F. Wilde Limited, Stockport, England. Machine for granulating moist material. No. 1,390,256; Sept. 6; v. 290; p. 139.
Wrenn, John O., Portland, Oreg. Humidizing attachment for hot-air furnaces. No. 1,389,804; Sept. 6; v. 290; p. 49.
Wright, Thomas M., Bertram, Tex. Resilient hub for wheels. No. 1,390,226; Sept. 6; v. 290; p. 134.

Wycherley, Arthur J., Wellington, New Zealand. Lock. No. 1,389,905; Sept. 6; v. 290; p. 49.
Yeiter, Clarence W., Alto, Mich. Snowplow. No. 1,389,727; Sept. 6; v. 290; p. 84.
Young, John C., Washington, D. C. Method and apparatus for vulcanising. No. 1,390,005; Sept. 6; v. 290; p. 90.
Zalkind, Philip, New York, N. Y. Container. No. 1,389,923; Sept. 6; v. 290; p. 74.
Zeller, Isaiah N., Chicago, Ill. Hairpin. No. 1,389,924; Sept. 6; v. 290; p. 74.
Zurovec, Wilhelm, Fischamend, near Vienna, German Austria. Captive flying-machine of the helicopter type. No. 1,389,925; Sept. 6; v. 290; p. 74.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Alexander, Laura E., Indianapolis, Ind. Doll. No. 58,863; Sept. 6; v. 290; p. 141.
American Can Company. (See Hoffman, Edmund, assignor.)
Apfel, Joseph S., New York, N. Y. Boudoir-lamp or the like. No. 58,864; Sept. 6; v. 290; p. 141.
Apfel, Joseph S., New York, N. Y. Boudoir-lamp. No. 58,865; Sept. 6; v. 290; p. 141.
Asaturian, Setrak, New York, N. Y. Spinning-top. No. 58,866; Sept. 6; v. 290; p. 141.
Barber, William J. (See Kerr, H. E., and Barber.)
Batavia Rubber Company. (See Yost, Helen S., assignor.)
Baxter, Robert H., Brooklyn, N. Y., assignor to Defiance Manufacturing Company. Calendar-stand base. No. 58,867; Sept. 6; v. 290; p. 141.
Benson, Flora, Angleton, Tex. Paper doll. No. 58,868; Sept. 6; v. 290; p. 142.
Berkowitz, Max, Richmond Hill, N. Y. Vanity-case. No. 58,869; Sept. 6; v. 290; p. 142.
Bianchini, Charles L. G., Paris, France. Fabric used in upholstering and decorating. Nos. 58,870–8; Sept. 6; v. 290; p. 142.
Black, Otto E., assignor to The Lucas-Miner Tool and Production Company, Dayton, Ohio. Radiator-cap. No. 58,874; Sept. 6; v. 290; v. 143.
Bradley Knitting Company. (See Byrnes, Daniel F., assignor.)
Bradley Knitting Company. (See Tyrrell, Wallace B., assignor.)
Bross, Ernest E., Detroit, Mich. Finger-ring. No. 58,875; 58,874; Sept. 6; v. 290; p. 143.
Bub Body Corporation. (See Zwebell, Albert R., assignor.)
Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Brocade fabric. No. 58,876; Sept. 6; v. 290; p. 143.
Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. Nos. 58,877–8; Sept. 6; v. 290; p. 143.
Bureau of the Holy Name Society. (See Smith, Ignatius, assignor.)
Byrnes, Daniel F., assignor to Bradley Knitting Company, Delavan, Wis. Knitted cap. No. 58,879; Sept. 6; v. 290; p. 144.
Campbell, Charles A., New York, N. Y. Lamp-globe. No. 58,880; Sept. 6; v. 290; p. 144.
Cleveland Gas Burner & Appliance Co. (See Kerr, H. E., and Barber, assignors.)
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Back-plate of a wall-bracket for lighting-fixtures. No. 58,882; Sept. 6; v. 290; p. 144.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Bracket-arm for lighting-fixtures. No. 58,883; Sept. 6; v. 290; p. 145.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Lighting-fixture unit. No. 58,884; Sept. 6; v. 290; p. 145.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Combined wall-bracket and socket-cover for lighting-fixtures. No. 58,885; Sept. 6; v. 290; p. 145.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Back-plate of a wall-bracket for lighting-fixtures. No. 58,886; Sept. 6; v. 290; p. 145.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Lighting-fixture unit. No. 58,887; Sept. 6; v. 290; p. 146.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Three-way plate for lighting-fixtures. No. 58,888; Sept. 6; v. 290; p. 146.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Lighting-fixture unit. No. 58,889; Sept. 6; v. 290; p. 146.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Wall-plate of a bracket for a lighting-fixture. No. 58,890; Sept. 6; v. 290; p. 146.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Wall-plate for a lighting-fixture. No. 58,891; Sept. 6; v. 290; p. 147.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Lighting-fixture unit. No. 58,892; Sept. 6; v. 290; p. 147.
Crockett, James B. (See Holtom, A. O., and Crockett.)
Defiance Manufacturing Company. (See Baxter, Robert H., assignor.)
Domingo y Cañellas, Joseph, Nice, France. Combined spoon and fork. No. 58,881; Sept. 6; v. 290; p. 144.
Dragar, Regina T., Seattle, assignor of one-half to C. A. Shuart, King county, Wash. Anklet. No. 58,893; Sept. 6; v. 290; p. 147.
Drufva, John T., Long Meadow, Mass., assignor to Henry Hyman & Co., Inc., New York, N. Y. Contact device for portable electric lights. Nos. 58,894–6; Sept. 6; v. 290; p. 147.
Eclipse Light Company. (See Newland, Isidor, assignor.)
Eisele, Adolphe, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,897; Sept. 6; v. 290; p. 148.
Elliott, Clair H., and A. Supansick, assignors of one-third to E. Loos, San Diego, Calif. Electric-lamp stand. No. 58,898; Sept. 6; v. 290; p. 148.
Elliott, Clarence E., and O. O. Nichols, Kansas City, Mo. Ornament for a radiator-cap. No. 58,899; Sept. 6; v. 290; p. 148.
Follender, Otto, East Islip, N. Y. Doll-wig. No. 58,900; Sept. 6; v. 290; p. 148.
Geisler, Frank J., San Francisco, Calif. Statuette. No. 58,901; Sept. 6; v. 290; p. 148.
Gilbert, A. C., Company, The. (See Gilbert, Alfred C., assignor.)
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Motor-fan guard. No. 58,903; Sept. 6; v. 290; p. 149.
Gilbert, Alfred C., assignor to The A. C. Gilbert Company, New Haven, Conn. Electric-motor casing. No. 58,904; Sept. 6; v. 290; p. 149.
Gilbert, Ruby, Etiwanda, Calif. Rompers. No. 58,902; Sept. 6; v. 290; p. 148.
Harrington, John W., Houston, Tex. Powder-box. No. 58,905; Sept. 6; v. 290; p. 149.
Henry Hyman & Co. (See Drufva, John T., assignor.)
Hoffman, Edmund, Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. No. 58,906; Sept. 6; v. 290; p. 149.
Holtom, Albert O., and J. B. Crockett, New York, N. Y. Radiator for an automobile. No. 58,907; Sept. 6; v. 290; p. 149.
Hummert, Robert H., Dayton, Ohio. Radiator-cap. No. 58,908; Sept. 6; v. 290; p. 150.
Hyatt, Frank S., Brooklyn, N. Y. Powder-container top. No. 58,909; Sept. 6; v. 290; p. 150.
Hygrade Lighting Fixture Corporation. (See Cohn, Harry, assignor.)
Jackson, William A., Binghamton, N. Y. Temple-gage. No. 58,910; Sept. 6; v. 290; p. 150.
Jewell, Edward J., Chicago, Ill. Statue. No. 58,911; Sept. 6; v. 290; p. 150.
Kats, Clara, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,913; Sept. 6; v. 290; p. 150.
Kelly, Lloyd C. (See Scarborough, Lee R., assignor.)
Kerr, Harry E., and W. J. Barber, assignors to Cleveland Gas Burner & Appliance Co., Cleveland, Ohio. Gas-burner. No. 58,914; Sept. 6; v. 290; p. 151.
Kirstein, E., Sons Company. (See Leytham, Thomas, assignor.)
Koket, Isidor, New York, N. Y. Crown and bow for watch-cases. No. 58,915; Sept. 6; v. 290; p. 151.
Kroehle, Oscar, Lakewood, Ohio. Front of a signal-lens. No. 58,916; Sept. 6; v. 290; p. 151.
Labourdette, Jean H., Courbevoie, France. Trailer for automobile vehicles. Nos. 58,917–18; Sept. 6; v. 290; p. 151.
Lachs, Louis. (See Teasdale, George, assignor.)
Leeper, Edward E., Council Bluffs, Iowa. Medicine-carton. No. 58,919; Sept. 6; v. 290; p. 152.
Leytham, Thomas, assignor to E. Kirstein Sons Company, Rochester, N. Y. Shell spectacle-frame. No. 58,920; Sept. 6; v. 290; p. 152.
Lisby, Arthur M., New York, N. Y. Button. No. 58,921; Sept. 6; v. 290; p. 152.
Lombard, Nathaniel, assignor to Lombard, White Company, Worcester, Mass. Washing-machine casing. No. 58,922; Sept. 6; v. 290; p. 152.
Lombard, White Company. (See Lombard, Nathaniel, assignor.)
Loos, Edward. (See Elliott, C. H., and Supansick, assignors.)
Lucas-Miner Tool and Production Company, The. (See Black, Otto E., assignor.)
Massey, James S., Toledo, Ohio. Reflector. No. 58,923; Sept. 6; v. 290; p. 152.
Mieding, William E., Sr., New Orleans, La. Phonograph-cabinet. No. 58,924; Sept. 6; v. 290; p. 153.
Minton, Gustave M., New York, N. Y. Ash-tray. No. 58,925; Sept. 6; v 290; p. 153.

Minton, Gustave M., New York, N. Y. Smoker's tray. No. 58,926; Sept. 6; v. 290; p. 153.
Minton, Gustave M., New York, N. Y. Cigarette-holder and ash-tray. No. 58,927; Sept. 6; v. 290; p. 153.
Moore, William H., Jr., Little Rock, Ark. Emblem, badge, or similar article to be applied to ties, shirts, and similar articles of wearing-apparel. No. 58,928; Sept. 6; v. 290; p. 153.
Nesmith, Florence, Tewksbury, Mass. Garment. No. 58,929; Sept. 6; v. 290; p. 153.
Neugebauer, Conrad, Columbus, Ohio. Bath-mitten. No. 58,930; Sept. 6; v. 290; p. 154.
Newland, Isidor, New York, N. Y., assignor to Eclipse Light Company. Chandelier. Nos. 58,931–6; Sept. 6; v. 290; pp. 154–5.
Nichols, Orville O. (See Elliott, C. E., and Nichols, assignors.)
Oehmann, Andrew, Washington, D. C. Game-board. No. 58,937; Sept. 6; v. 290; p. 155.
Owen, Richard B., Washington, D. C. Electric-storage-battery container. No. 58,938; Sept. 6; v. 290; p. 155.
Pieper, Alphonse F. (See Pieper, Oscar H. and A. F.)
Pieper, Oscar H. and A. F., Rochester, N. Y. Panel for dental appliances. No. 58,939; Sept. 6; v. 290; p. 156.
Porcupine Manufacturing Company. (See Steell, Edgar W., assignor.)
Quabaug Rubber Company. (See Richards, Thomas G., assignor.)
Reichenbach, Bernard, New York, N. Y. Box for a set of building-blocks or similar articles. No. 58,940; Sept. 6; v. 290; p. 156.
Reliable Knitting Works. (See Rosenberg, Samuel, assignor.)
Richards, Thomas G., assignor to Quabaug Rubber Company, Brookfield, Mass. Rubber mat. No. 58,941; Sept. 6; v. 290; p. 156.
Richards, Thomas G., assignor to Quabaug Rubber Company, Brookfield, Mass. Rubber matting. No. 58,942; Sept. 6; v. 290; p. 156.
Rigotty, Annie, Los Angeles, Calif. Statuette. No. 58,943; Sept. 6; v. 290; p. 156.
Rosenberg, Samuel, assignor to Reliable Knitting Works, Milwaukee, Wis. Combined head and neck covering. No. 58,944; Sept. 6; v. 290; p. 157.
Scarborough, Lee R., Seminary Hill, Tex., assignor to L. C. Kelly, Pineville, Ky. Badge, button, pin, broach, or emblem. No. 58,945; Sept. 6; v. 290; p. 157.
Schott, Theodore P., Panama City, Fla. Footrest. No. 58,946; Sept. 6; v. 290; p. 157.
Schulze, John W., assignor to Alfred Vester Sons, Inc., Providence, R. I. Rosette for lighting-fixtures. No. 58,947; Sept. 6; v. 290; p. 157.
Sebring, Harry D., New York, N. Y. Medicinal container. No. 58,948; Sept. 6; v. 290; p. 157.
Shuart, Charles A. (See Drager, Regina T., assignor.)
Smith, Ignatius, assignor to Bureau of the Holy Name Society, New York, N. Y. Button, badge, or article of similar nature. No. 58,949; Sept. 6; v. 290; p. 157.
Stebe, Jacob, Chicago, Ill. Straw-weave as applied to a straw hat. No. 58,950; Sept. 6; v. 290; p. 158.
Steell, Edgar M., assignor to Porcupine Manufacturing Company, Spokane, Wash. Tire-patch. No. 58,951; Sept. 6; v. 290; p. 158.
Stirling, Robert, Jr., East Chicago, Ind. Nipple attachment for automobile-radiators. No. 58,952; Sept. 6; v. 290; p. 158.
Supansick, Arthur. (See Elliott, C. H., and Supansick.)
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Susquehanna Silk Mills. (See Eisele, Adolphe, assignor.)
Susquehanna Silk Mills. (See Kats, Clara, assignor.)
Swanson, John A., Omaha, Nebr. Table. No. 58,953; Sept. 6; v. 290; p. 158.
Tait, Basil M., Denver, Colo. Candy-box. No. 58,954; Sept. 6; v. 290; p. 159.
Teasdale, George, assignor to L. Lachs, Kansas City, Mo. Humidor for cigars. No. 58,955; Sept. 6; v. 290; p. 158.
Trout, Charles L., New York, N. Y. Wedding-ring. No. 58,956; Sept. 6; v. 290; p. 159.
Tyrrell, Wallace B., assignor to Bradley Knitting Company, Delavan, Wis. Knitted cap. No. 58,957; Sept. 6; v. 290; p. 159.
Vester, Alfred Sons, Inc. (See Schulze, John W., assignor.)
Waddell, Sanford R., Toronto, Ontario, Canada. Form for bow-ties. No. 58,958; Sept. 6; v. 290; p. 159.
Wendland, Louis C., Oakland, Calif. Radius-rod for vehicles. No. 58,959; Sept. 6; v. 290; p. 159.
Wilcox, Urquhart, Buffalo, N. Y. Chair. No. 58,960; Sept. 6; v. 290; p. 159.
Wilcox, Urquhart, Buffalo, N. Y. Table. No. 58,961; Sept. 6; v. 290; p. 159.
Willmann, Max J., Milwaukee, Wis. Pincushion. No. 58,962; Sept. 6; v. 290; p. 160.
Wittstein, Francis H., Newark, N. J. Finger-ring. Nos. 58,979–80; Sept. 6; v. 290; p. 164.
Wittstein, Francis H., Newark, N. J. Finger ring, bracelet, or the like. Nos. 58,981–2; Sept. 6; v. 290; p. 164.
Wittstein, Charles T., Newark, N. J. Phonograph-cabinet. Nos. 58,963–78; Sept. 6; v. 290; pp. 160–3.
Wood, Annie, Winnipeg, Manitoba, Canada. Display-stand. No. 58,983; Sept. 6; v. 290; p. 164.
Yost, Helen S., assignor to Batavia Rubber Company, Batavia, N. Y. Tire-tread. No. 58,984; Sept. 6; v. 290; p. 164.
Zwebell, Albert R., assignor to Bub Body Corporation, Milwaukee, Wis. Automobile-body. No. 58,912; Sept. 6; v. 290; p. 150.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

A. P. W. Paper Co., Albany, N. Y. Toilet-paper. No. 146,414; Sept. 6; v. 290; p. 205.

Abbott, A. Theo., & Co., Philadelphia, Pa. Fiber fabric imitating silk in the piece and draperies, table-covers, &c. No. 146,415; Sept. 6; v. 290; p. 205.

Acme Cabinet Company, Kansas City, Mo. Phonographs. No. 146,416; Sept. 6; v. 290; p. 206.

Adams & Jewell, Rome, N. Y. Refractory cement and high-temperature cements. No. 146,417; Sept. 6; v. 290; p. 206.

Adams-Bach Hdkf. Mfg. Co., Inc., New York, N. Y. Handkerchiefs. No. 146,154; Sept. 6; v. 290; p. 197.

Alnas, M. & Sons, Inc., El Paso, Tex. Wheat-flour. No. 146,155; Sept. 6; v. 290; p. 197.

Air Reduction Company Inc, New York, N. Y. Oxygen, acetylene, and nitrogen. No. 146,156; Sept. 6; v. 290; p. 197.

Ajax Electrothermic Corporation, Trenton, N. J. High-frequency electric furnaces and parts thereof and certain associated devices. No. 146,157; Sept. 6; v. 290; p. 197.

Alexander Cabinet Company, Hanover, Pa. Talking-machines. No. 146,418; Sept. 6; v. 290; p. 205.

American Agricultural Company, New York, N. Y. Fertilizers. No. 146,419; Sept. 6; v. 290; p. 205.

American Chemical Paint Company, Philadelphia, Pa. Metal-treating fluid for preparing work for soldering. No. 146,158; Sept. 6; v. 290; p. 197.

American Cotton Oil Company, The. (See Industrial Cotton Oil Properties, assignors.)

American Display Company, The, Dayton, Ohio. Certain transmissions. No. 146,159; Sept. 6; v. 290; p. 197.

American Fork and Hoe Company, The, Cleveland, Ohio. Hand-cultivators. No. 146,160; Sept. 6; v. 290; p. 197.

American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Corn-syrup. No. 146,161; Sept. 6; v. 290; p. 197.

American Indian Film Co., The, Denver, Colo. Motion-picture films. No. 146,162; Sept. 6; v. 290; p. 197.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, twine. No. 146,420; Sept. 6; v. 290; p. 205.

American Multigraph Sales Company, The, Cleveland, Ohio. Printing-machines and parts thereof. No. 146,163; Sept. 6; v. 290; p. 197.

American Stationery Mfg. Co., New York, N. Y. Lubricating oils and greases. No. 146,421; Sept. 6; v. 290; p. 206.

American Tobacco Company, The, New York, N. Y. Smoking and chewing tobacco and cigarettes. No. 146,164; Sept. 6; v. 290; p. 197.

American Tripoli Company, Seneca, Mo. Tripoli flour, (ground tripoli stone.) No. 146,422; Sept. 6; v. 290; p. 206.

American Writing Paper Company, Holyoke, Mass. Ledger-paper. No. 146,423; Sept. 6; v. 290; p. 206.

American Valve Co., Coxsackie, N. Y. Valves. No. 146,165; Sept. 6; v. 290; p. 197.

Amoskeag Manufacturing Company, Manchester, N. H., and Boston, Mass. Cotton piece goods. No. 146,424; Sept. 6; v. 290; p. 206.

Arkansas Soft Pine Bureau, Little Rock, Ark. Lumber. Nos. 146,425–6; Sept. 6; v. 290; p. 206.

Associated Oil Company, San Francisco, Calif. Lubricating-oils and gasolene. No. 146,166; Sept. 6; v. 290; p. 197.

Atlantic Refining Company, The, Philadelphia, Pa. Linseed-oil substitute. No. 146,167; Sept. 6; v. 290; p. 197.

Austin, Nichols & Company, Incorporated, Brooklyn and New York, N. Y. Canned food products. No. 146,168; Sept. 6; v. 290; p. 197.

Babcock, A. P., Company, New York, N. Y. Talcum and face powders; toilet extract and water, rouge, &c. No. 146,169; Sept. 6; v. 290; p. 197.

Bake-Rite Oven Manufacturing Company, Reno, Nev., and San Francisco, Calif. Electrical devices. No. 146,170; Sept. 6; v. 290; p. 197.

Baker Chemical Company, Havelock, Nebr. Liquid preparations. No. 146,427; Sept. 6; v. 290; p. 207.

Banister & Pollard Co., Newark, N. J. Certain hardware. No. 146,428; Sept. 6; v. 290; p. 207.

Barcolo Manufacturing Company, Buffalo, N. Y. Beds, cribs, bed-springs, mattresses. No. 146,429; Sept. 6; v. 290; p. 207.

Barker, C. B., & Co. Ltd., New York, N. Y. Sewing-machine needles, machine knitting-needles. No. 146,171; Sept. 6; v. 290; p. 197.

Barnebey-Cheney Engineering Company, The, Columbus, Ohio. Absorbent material to absorb gases. No. 146,172; Sept. 6; v. 290; p. 197.

Barr & Stroud, Limited, Anniesland, Glasgow, Scotland. Instruments of precision. No. 146,174; Sept. 6; v. 290; p. 197.

Batterton Coffee Co., Birmingham, Ala. Baking-powder. No. 146,175; Sept. 6; v. 290; p. 197.

Bausinger, Charles J., Cincinnati, Ohio. Soda-ash. No. 146,430; Sept. 6; v. 290; p. 207.

Beal-Burrow Dry Goods Co., Little Rock, Ark. Hosiery, neckties, garters, gloves, suspenders. No. 146,431; Sept. 6; v. 290; p. 207.

Beck Duplicator Company, The, New York, N. Y. Duplicating-rolls comprising a cloth base or foundation and a layer of duplicating material, as gelatin. No. 146,175; Sept. 6; v. 290; p. 197.

Bell, Samuel, & Sons, Philadelphia, Pa. Wheat-flour. No. 146,176; Sept. 6; v. 290; p. 197.

Benard & Begin, Waterville, Me. Veterinary medicine. No. 146,432; Sept. 6; v. 290; p. 207.

Beyerle Mfg. Co., New York, N. Y. Rubber baby-pants. Nos. 146,433–4; Sept. 6; v. 290; pp. 207–8.

Binney & Smith Company, New York, N. Y. Paint-pigments. No. 146,177; Sept. 6; v. 290; p. 197.

Blackstone Manufacturing Co., Newark, N. J. Cough syrup, witch-hasel, camphorated oil, pure glycerin. No. 146,178; Sept. 6; v. 290; p. 197.

Bob & Baskind, New York, N. Y. Men's flannel, work, and dress shirts. No. 146,179; Sept. 6; v. 290; p. 197.

Boon, J. A., Gary, Ind. Liniment for use in the treatment of rheumatism. No. 146,180; Sept. 6; v. 290; p. 198.

Bornstein, M., & Sons, Paterson, N. J. Silk shirtings in the piece. No. 146,181; Sept. 6; v. 290; p. 198.

Bosak Manufacturing Co., Scranton, Pa. Reconstructive tonic. No. 146,182; Sept. 6; v. 290; p. 198.

Bre Manufacturing Company, Boston, Mass. Bath-room fittings. No. 146,183; Sept. 6; v. 290; p. 198.

Brentano's, New York, N. Y. Mail-order sheets. No. 146,184; Sept. 6; v. 290; p. 198.

Briggs, J., & Sons Co., Providence, R. I. Certain non-ferrous metals. No. 146,185; Sept. 6; v. 290; p. 198.

Brizman, Herman W., Cleveland, Ohio. Hair-tonic, perfume, toilet water, talcum, rouge, &c. No. 146,186; Sept. 6; v. 290; p. 198.

Brunswick Refrigerating Company, New Brunswick, N. J. Refrigerating and ice-making machines. No. 146,435; Sept. 6; v. 290; p. 208.

Buck, A., & Co. Calora, Zurich, Switzerland. Electric heating appliances. No. 146,187; Sept. 6; v. 290; p. 198.

Buffalo Lens Mfg. Co. Inc., Buffalo, N. Y. Ophthalmic lenses. No. 146,188; Sept. 6; v. 290; p. 198.

Buser and Company, Niederdorf, Switzerland. Clocks, parts of clocks, clockworks, watches, parts of watches, and watchworks. No. 146,189; Sept. 6; v. 290; p. 198.

Bushnell, Alvah, Company, Philadelphia, Pa. Paper and paper-composition, filing-containers, mailing-envelops, &c. No. 146,190; Sept. 6; v. 290; p. 198.

Butler, J. W., Paper Company, Chicago, Ill. Colored writing-paper. No. 146,191; Sept. 6; v. 290; p. 198.

California Food Specialties Co., Emeryville, Calif. Canned fruits and pork and beans and fruit preserves. No. 146,436; Sept. 6; v. 290; p. 208.

California Packing Corporation, San Francisco, Calif. Canned fruits, berries, and vegetables. No. 146,192; Sept. 6; v. 290; p. 198.

Calina Cannery Company, Los Angeles, Calif. Canned tomatoes and apricots. No. 146,437; Sept. 6; v. 290; p. 208.

Central Ohio Paper Co., The, Columbus, Ohio. Printing and writing papers. No. 146,435; Sept. 6; v. 290; p. 208.

Central Talking Machine Shop, (Inc.,) New York, N. Y. Toys for use with automatic pianos. No. 146,193; Sept. 6; v. 290; p. 198.

Champion Blower & Forge Co., Lancaster, Pa. Blowers. No. 146,439; Sept. 6; v. 290; p. 208.

Chase & Co., Jacksonville, Fla. Fresh citrus fruits. Nos. 146,440–1; Sept. 6; v. 290; p. 208.

Chemical Products Co., The, Memphis, Tenn. Preparation for the treatment of the gums. No. 146,442; Sept. 6; v. 290; p. 208.

Chemical Works Flora, Dubendorf, Switzerland. Essences, fruit oils, syrup for beverages. No. 146,194; Sept. 6; v. 290; p. 198.

Cheney, S., & Son, Manlius, N. Y. Gray-iron chaplets. No. 146,443; Sept. 6; v. 290; p. 208.

Cincinnati Storage Battery Company, Cincinnati, Ohio. Electric batteries. No. 146,444; Sept. 6; v. 290; p. 208.

Cirola Phonograph Corporation, Philadelphia, Pa. Phonographs. No. 146,195; Sept. 6; v. 290; p. 198.

Citizens' Wholesale Supply Company, The, Columbus, Ohio. Filter, paraffin-wax, and toilet papers. No. 146,196; Sept. 6; v. 290; p. 198.

Clark, Frank W., Los Angeles, Calif. Foot powder and deodorant. No. 146,197; Sept. 6; v. 290; p. 198.

Clayton Mfg. Co., Bristol, Conn. Shears and scissors. No. 146,198; Sept. 6; v. 290; p. 198.

Cluett, Peabody & Co., Inc., Troy, N. Y. Handkerchiefs. No. 146,199; Sept. 6; v. 290; p. 198.

Coffee Dan's, Inc., Detroit, Mich. Coffee. No. 146,200; Sept. 6; v. 290; p. 198.

Cohen, Abraham, Baltimore, Md. Cooking and shortening compound. No. 146,201; Sept. 6; v. 290; p. 198.
Colonial Salt Company, The, Akron, Ohio. Salt. No. 146,202; Sept. 6; v. 290; p. 198.
Colorado Milling & Elevator Company, The, Denver, Colo., and Weiser, Idaho. Wheat-flour. No. 146,203; Sept. 6; v. 290; p. 198.
Consumers Biscuit Co., New Orleans, La. Mixed biscuits. No. 146,445; Sept. 6; v. 290; p. 209.
Continental Gin Co., Birmingham, Ala. Cotton gins, cotton presses, and distributers, lint-flues, &c. No. 146,204; Sept. 6; v. 290; p. 198.
Cook, Charles I., Menominee, Mich. Canned goods, catsup, pickles, &c. No. 146,446; Sept. 6; v. 290; p. 209.
Copeland, Merrell S., Oelwein, Iowa. Cheming-gum. No. 146,205; Sept. 6; v. 290; p. 198.
Cosin, Joseph J., New York, N. Y. Powder-puffs. No. 146,447; Sept. 6; v. 290; p. 209.
Cunning, Geo. A., Las Animas, Colo. Veterinarian and poultry preparation in the nature of a tonic and healing-powder for the treatment of roup in poultry and spavin in horses. No. 146,206; Sept. 6; v. 290; p. 198.
Curwin's Accountancy Co., South Bend, Ind. Accounting-forms. No. 146,207; Sept. 6; v. 290; p. 198.
Dahlin, Erik, Clearbrook, Minn. Medicine for coughs, catarrh, &c. No. 146,208; Sept. 6; v. 290; p. 198.
Davidson, David, Providence, R. I. Pictures. No. 146,448; Sept. 6; v. 290; p. 209.
De Met and Company, Chicago, Ill. Candy. No. 146,210; Sept. 6; v. 290; p. 198.
Deagan, J. C., Inc., Chicago, Ill. Xylophones. Nos. 146,449–51; Sept. 6; v. 290; p. 209.
Dee, John, Rock Island, Ill. Connecting-rod aliners. No. 146,209; Sept. 6; v. 290; p. 198.
Dependable Truck and Tractor Company, Galesburg, Ill. Motor-trucks. No. 146,452; Sept. 6; v. 290; p. 209.
Devoe & Raynolds Co. Inc., New York, N. Y. Oil-paint for flat wall-finish. No. 146,211; Sept. 6; v. 290; p. 198.
Dorfman & Korman, New York, N. Y. Ladies' petticoats, bloomers, corset-covers, &c. No. 146,212; Sept. 6; v. 290; p. 199.
Does Rubber & Tube Co., Inc., The, Atlanta, Ga. Rubber tires. No. 146,454; Sept. 6; v. 290; p. 210.
Dubinski, Benjamin, San Antonio, Tex. Storage batteries. No. 146,455; Sept. 6; v. 290; p. 210.
Duncan, Cecil T., Quincy, Mass. Toilet, medicinal, and pharmaceutical preparations. No. 146,213; Sept. 6; v. 290; p. 199.
Dunn, John, Son & Co., New York, N. Y. Wire and steel or iron hoops. No. 146,214; Sept. 6; v. 290; p. 199.
Duplan Silk Corporation, New York, N. Y. Broad-silk piece goods. No. 146,215; Sept. 6; v. 290; p. 199.
Durham Cotton Mfg. Co., East Durham, N. C. Denims in the piece. No. 146,456; Sept. 6; v. 290; p. 210.
Edenfield, William N., Atlanta, Ga. Mineral oil for treatment of the intestines. No. 146,216; Sept. 6; v. 290; p. 199.
Elgin Waist Company, Philadelphia, Pa. Waists, dresses, &c. No. 146,457; Sept. 6; v. 290; p. 210.
Ellis, Lexey B., Jr., Memphis, Tenn. Tooth-paste. No. 146,217; Sept. 6; v. 290; p. 199.
Emanuel Slag Company, Allentown and Glendale, Pa. Dense hard slag. No. 146,458; Sept. 6; v. 290; p. 210.
Englander Spring Bed Co., Brooklyn, N. Y. Beds, couches, springs, cribs, &c. No. 146,459; Sept. 6; v. 290; p. 210.
Everett, Heaney & Company, Inc., New York, N. Y. Bleached, colored, and dyed cotton and cotton and silk mixtures in the piece. No. 146,218; Sept. 6; v. 290; p. 199.
Eserskin, Charles, Chicago, Ill. Medicine used in the treatment of rheumatism. No. 146,219; Sept. 6; v. 290; p. 199.
Fan Flame Spark Plug Co., Inc., Yonkers, N. Y. Spark-plugs. No. 146,220; Sept. 6; v. 290; p. 199.
Federal Electric Company, Chicago, Ill. Phonographs. No. 146,460; Sept. 6; v. 290; p. 210.
Filene's, Wm., Sons, Company, Boston, Mass. Articles of clothing. No. 146,223; Sept. 6; v. 290; p. 199.
Filteau, Wilfred E., Boston, Mass. Mouth-wash, tooth powder and paste. No. 146,224; Sept. 6; v. 290; p. 199.
Firsching, Joseph A., Utica, N. Y. Certain underwear of knitted, netted, and textile fabrics. No. 146,461; Sept. 6; v. 290; p. 210.
Fisher Flouring Mills Company, Settle, Wash. Wheat-flour. No. 146,225; Sept. 6; v. 290; p. 199.
Flannery Bolt Company, Pittsburgh, Pa. Lock-nuts. No. 146,226; Sept. 6; v. 290; p. 199.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 146,227–8; Sept. 6; v. 290; p. 199.
Foyer, Chas. A., & Company, Cleveland, Ohio. Typewriter-ribbons and carbon-paper. No. 146,229; Sept. 6; v. 290; p. 199.
Galbraith & Co., Seattle, Wash. Compressed hay. No. 146,462; Sept. 6; v. 290; p. 210.
Gardiner-McInnes Co., Inc., New York, N. Y. Paints, varnishes, paint enamels. No. 146,463; Sept. 6; v. 290; p. 211.
Gebhardt, Emma M., Los Angeles, Calif. Ointment for the treatment of piles. No. 146,231; Sept. 6; v. 290; p. 199.
General Manufacturing Corporation, Milwaukee, Wis. Phonographs. No. 146,232; Sept. 6; v. 290; p. 199.
Genatee, Joseph, Brooklyn, N. Y. Throat-gargle. No. 146,464; Sept. 6; v. 290; p. 211.
Genuine Haarlem Oil Mfg. Co., New York, N. Y. Medicinal preparation. No. 146,465; Sept. 6; v. 290; p. 211.
Giddings & Lewis Machine Tool Company, Fond du Lac, Wis. Metal working, boring, drilling, and milling machines. No. 146,233; Sept. 6; v. 290; p. 199.
Girard, David, Detroit, Mich. Medicinal preparation for piles, hemorrhages of the bowels, boils, &c. No. 146,235; Sept. 6; v. 290; p. 199.
Glemby's, S., Sons Co. Inc., New York, N. Y. Hair-nets. No. 146,467; Sept. 6; v. 290; p. 211.
Goldberg & Rosenblatt, New York, N. Y. Waists. No. 146,469; Sept. 6; v. 290; p. 211.
Gordon, M. Martin, Chicago, Ill. Toilet and pharmaceutical preparations. No. 146,236; Sept. 6; v. 290; p. 199.
Gottfried, Dale M., Falls City, Oreg. Card game. No. 146,468; Sept. 6; v. 290; p. 211.
Gray & Prior Machine Company, Hartford, Conn. Internal-combustion engines. No. 146,470; Sept. 6; v. 290; p. 211.
Greaney, Thomas E., Boston, Mass. Neckties and mufflers. No. 146,471; Sept. 6; v. 290; p. 211.
Great Atlantic and Pacific Tea Company, The, Jersey City, N. J. Foods. No. 146,237; Sept. 6; v. 290; p. 199.
Green, Dr. L. O., Chicago, Ill. Flexible hypodermic needles. No. 146,472; Sept. 6; v. 290; p. 211.
Green, Frances H., New York, N. Y. Toilet preparations. No. 146,238; Sept. 6; v. 290; p. 199.
Green Mountain Violin Corporation, Stowe, Vt. Violins. No. 146,239; Sept. 6; v. 290; p. 199.
Greene, William E., New York, N. Y. Paints. No. 146,240; sept. 6; v. 290; p. 199.
Grip Bow Tie Co., Omaha, Nebr. Neckties. No. 146,473; Sept. 6; v. 290; p. 211.
Groveton Paper Company, Inc., Groveton, N. H. Paper for writing, typewriting, printing, and lithographing. No. 146,241; Sept. 6; v. 290; p. 199.
Gsell, Roland A., New York, N. Y. Watchcases and parts thereof, watches, watch-movements. No. 146,242; Sept. 6; v. 290; p. 199.
Gullick and Snyder Rubber Co., Columbus, Ohio. Rubber heels. No. 146,474; Sept. 6; v. 290; p. 212.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, woolen, linen, and cotton piece goods and combinations thereof. No. 146,243; Sept. 6; v. 290; p. 199.
Hammond Standish & Co., Detroit, Mich. Oleomargarin. No. 146,475; Sept. 6; v. 290; p. 212.
Hansen, Oswald H., Port Washington, Wis. Canning machinery. No. 146,476; Sept. 6; v. 290; p. 212.
Hanson, E. J., Frederick, Camden, N. J. Bread. No. 146,230; Sept. 6; v. 290; p. 199.
Hardwick & Magee Company, Philadelphia, Pa. Wilton carpets and rugs. Nos. 146,477–8; Sept. 6; v. 290; p. 212.
Harrods (North America) Ltd., New York, N. Y. Hair-tonic. No. 146,244; Sept. 6; v. 290; p. 199.
Harrow-Taylor Butter Co., Kansas City, Mo. Oleomargarin. No. 146,245; Sept. 6; v. 290; p. 200.
Heberlein, Heinrich T., Jr., Markneukirchen, Germany. Certain stringed musical instruments and strings and bows therefor. No. 146,480; Sept. 6; v. 290; p. 212.
Heddon's, James, Sons, Dowagiac, Mich. Artificial minnows. No. 146,246; Sept. 6; v. 290; p. 200.
Hedge's Orange Ale Co., Detroit, Mich. Non-cereal maltless beverage. No. 146,479; Sept. 6; v. 290; p. 212.
Hester, Zachary, Chicago, Ill. Medicine for the treatment of lungs. No. 146,247; Sept. 6; v. 290; p. 200.
Heunser, H. N., & Son, Hanover, Pa. Cigars. No. 146,248; Sept. 6; v. 290; p. 200.
Hickok, George F., San Francisco, Calif. Certain tools. No. 146,249; Sept. 6; v. 290; p. 200.
Higley and Mortensen, San Francisco, Calif. Musical instruments. No. 146,250; Sept. 6; v. 290; p. 200.
Hill, W. H., Co., Detroit, Mich. Tablets for colds, coughs, headache, and la grippe. No. 146,481; Sept. 6; v. 290; p. 212.
Hite, S. P., Company, Inc., Roanoke, Va. Olive-oil, flavoring oils and extracts. No. 146,482; Sept. 6; v. 290; p. 212.
Holden, Leonard, Company, New York, N. Y. Worsted and woolen textile fabrics in the piece. No. 146,251; Sept. 6; v. 290; p. 200.
Hollingshead, W. B., Company, Binghamton, N. Y. Toy. No. 146,252; Sept. 6; v. 290; p. 200.
Hood Rubber Company, Watertown, Mass. Rubber boots and shoes, rubber overshoes, and rubber-soled canvas shoes. No. 146,253; Sept. 6; v. 290; p. 200.
Hospital Specialty Company, The, Cleveland, Ohio. Sanitary napkins. No. 146,483; Sept. 6; v. 290; p. 213.
Houbigant, Inc. (See Parfumerie, Houbigant, assignor.)
Houghton, E. F., & Co., Philadelphia, Pa. Lubricating-oils. Nos. 146,254–5; Sept. 6; v. 290; p. 200.
Houghton, E. F., & Co., Philadelphia, Pa. Metal-cutting oils. No. 146,256; Sept. 6; v. 290; p. 200.
Houghton, E. F., & Co., Philadelphia, Pa. Core-oils. No. 146,484; Sept. 6; v. 290; p. 218.
Howard Specialties Company Inc., New York, N. Y. Mechanical razor-stroppers. No. 146,257; Sept. 6; v. 290; p. 200.
Huber Ice Cream Company, The, Bridgeport, Conn. Ice-cream. No. 146,485; Sept. 6; v. 290; p. 213.
Imperial Hosiery Co., Pittsburgh, Pa. Boys' stockings. No. 146,258; Sept. 6; v. 290; p. 200.

Inderrieden Canning Co., Chicago, Ill. Canned vegetables. No. 146,486; Sept. 6; v. 290; p. 213.
Indiana Indestructible Paint Co., Chicago, Ill. Paints. No. 146,487; Sept. 6; v. 290; p. 213.
Industrial Cotton Oil Properties, Boston, Mass., assignor to The American Cotton Oil Company. Cotton-seed meal. No. 146,259; Sept. 6; v. 290; p. 200.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Machinery, tools, and parts thereof. No. 146,488; Sept. 6; v. 290; p. 213.
Inland American Tractor Company, Eau Claire, Wis. Tractors. No. 146,260; Sept. 6; v. 290; p. 200.
International Chemical Company, The, Cleveland, Ohio. Chemical insect-exterminators. No. 146,261; Sept. 6; v. 290; p. 200.
International Tag Company, Chicago, Ill. Shipping-tags. No. 146,489; Sept. 6; v. 290; p. 213.
Ismert-Hincke Milling Company, The, Kansas City, Kans., and Kansas City, Mo. Wheat-flour. No. 146,262; Sept. 6; v. 290; p. 200.
Italy Commercial Co., New York, N. Y. Salad-oil. No. 146,263; Sept. 6; v. 290; p. 200.
Iten Biscuit Co., Clinton, Iowa. Cakes. No. 146,264; Sept. 6; v. 290; p. 200.
Jacobs Brothers, Baltimore, Md. Blouses, dresses, &c. No. 146,265; Sept. 6; v. 290; p. 200.
Jaenecke-Ault Company, Newark, N. J. Printing-inks. No. 146,266; Sept. 6; v. 290; p. 200.
Jarvis, Henry C., New York, N. Y. Pills for constipation and torpid liver. No. 146,490; Sept. 6; v. 290; p. 214.
Jiffo Company Incorporated, The, Little Rock, Ark. Ready-mixed cake-flour. No. 146,267; Sept. 6; v. 290; p. 200.
Kelleher, William J., Toronto, Ontario, Canada. English toffee. No. 146,268; Sept. 6; v. 290; p. 200.
Kelley Brothers, Detroit, Mich. Coffee. No. 146,269; Sept. 6; v. 290; p. 200.
Kelley, Julius C., Birmingham, Ala. Remedy for the scalp and hair. No. 146,270; Sept. 6; v. 290; p. 200.
Kelsey Heating Company, Syracuse, N. Y. Steam hot-water, and hot-air furnaces. Nos. 146,491–2; Sept. 6; v. 290; p. 214.
Kent, Earl, Tacoma, Wash. Butter. No. 146,271; Sept. 6; v. 290; p. 200.
Kibby, Adaline, Mrs., Columbus, Ohio. Salve. No. 146,272; Sept. 6; v. 290; p. 200.
Kinsle Rubber & Manufacturing Co., Chicago, Ill. Raincoats. No. 146,493; Sept. 6; v. 290; p. 214.
Kirk-Barber Company, Chicago, Ill. Fly-wheel gear-rings. No. 146,494; Sept. 6; v. 290; p. 214.
Klein, Samuel, Philadelphia, Pa. Toy cars for children. No. 146,273; Sept. 6; v. 290; p. 200.
Klemperer, Gustav, New York, N. Y. Hair-nets. Nos. 146,495–6; Sept. 6; v. 290; p. 214.
Klenke, August C., San Francisco, Calif. Child's toy vehicle. No. 146,274; Sept. 6; v. 290; p. 200.
Knight and Co., Inc., Lancaster, Pa. Antiseptic mouth-wash. No. 146,275; Sept. 6; v. 290; p. 200.
Kollmorgen Optical Corporation, Brooklyn, N. Y. Lenses for motion-picture projection and similar purposes. Nos. 146,276–7; Sept. 6; v. 290; p. 200.
Lax-Ton-All Co., New York, N. Y. Reconstructive tonic in tablet form. No. 146,278; Sept. 6; v. 290; p. 200.
Le Sieur, Phillas E., Boston, Mass. Preparation for relief of coughs, colds, sore throat, and catarrh. No. 146,280; Sept. 6; v. 290; p. 201.
Lee, Joseph H., Elmira Heights, N. Y. Medicine for coughs, bronchitis, consumption, &c. No. 146,279; Sept. 6; v. 290; p. 200.
Leschen, A., & Sons Rope Company, St. Louis, Mo. Wire rope. Nos. 146,529–30; Sept. 6; v. 290; p. 218.
Liberty Manufacturing Co., The, Baltimore, Md. Articles of clothing. No. 146,281; Sept. 6; v. 290; p. 201.
Lindsey Wagon Co., Laurel, Miss. Wagons and skidders. No. 146,551; Sept. 6; v. 290; p. 218.
Low, Frank E., Paterson, N. J. Hair-nets. No. 146,283; Sept. 6; v. 290; p. 201.
Lublin, Kora M., New York, N. Y. Toilet preparations. No. 146,284; Sept. 6; v. 290; p. 201.
Ludlum Steel Company, Watervliet, N. Y. Tool-steel and carbon tool-steel. No. 146,532; Sept. 6; v. 290; p. 218.
Ludlum Steel Company, Watervliet, N. Y. Rustless steel. No. 146,533; Sept. 6; v. 290; p. 218.
Luminous Specialty Company, Indianapolis, Ind. Electric-light-diffusing fixtures. No. 146,285; Sept. 6; v. 290; p. 201.
Lysle, J. C. Milling Company, The, Leavenworth, Kans. Self-rising wheat-flour. No. 146,287; Sept. 6; v. 290; p. 201.
M. H. Pharmacal Co., (Inc.,) Chicago, Ill. Preparation for removing hair. No. 146,331; Sept. 6; v. 290; p. 202.
McArthur, Harold M., & Co. Limited, Liverpool, England. Tanning materials. No. 146,295; Sept. 6; v. 290; p. 201.
McCaskey Register Company, The, Alliance, Ohio. Filing appliances. No. 146,539; Sept. 6; v. 290; p. 219.
MacMillan, Frank, Fort Lee, N. J. Skates. No. 146,534; Sept. 6; v. 290; p. 219.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 146,288-90; Sept. 6; v. 290; p. 201.
Manufacture Metallurgique de Tournus, Tournus, France. Metallic kitchen and cooking utensils. No. 146,291; Sept. 6; v. 290; p. 201.
Marko, Paul M., & Co., Inc., Brooklyn, N. Y. Storage batteries. No. 146,535; Sept. 6; v. 290; p. 219.
Marshall Field & Company, Chicago, Ill. Cotton piece goods. No. 146,221; Sept. 6; v. 290; p. 199.
Marshall Field & Company, Chicago, Ill. Muslins in the piece. No. 146,222; Sept. 6; v. 290; p. 199.
Marshall Field & Company, Chicago, Ill. Silverware. No. 146,536; Sept. 6; v. 290; p. 219.
Marshall Oil Company of Iowa, Marshalltown, Iowa. Lubricating-oils. No. 146,537; Sept. 6; v. 290; p. 219.
Martin, Willard S., Plainfield, Vt. Sheep and cattle. No. 146,292; Sept. 6; v. 290; p. 201.
Marul, H., & Co., New York, N. Y. Metal-leaf. No. 146,293; Sept. 6; v. 290; p. 201.
Master Jewelers, Inc., The, New York, N. Y. Watches. No. 146,294; Sept. 6; v. 290; p. 201.
Master Rule Mfg. Co., Inc., New York, N. Y. Rules, folding and extension rules. No. 146,538; Sept. 6; v. 290; p. 219.
Mermaid Dish Washer Company, Middletown, Conn. Electric dish-washing machines and parts thereof. No. 146,296; Sept. 6; v. 290; p. 201.
Midland Flour Milling Co., The, Kansas City, Mo. Self-rising wheat-flour and wheat-flour. No. 146,298; Sept. 6; v. 290; p. 201.
Milton Piano Company, New York, N. Y. Pianos and player-pianos. No. 146,540; Sept. 6; v. 290; p. 219.
Milwaukee Auto Engine & Supply Co., Milwaukee, Wis. Spark-timers for internal-combustion engines. No. 146,541; Sept. 6; v. 290; p. 219.
Montrose Worsted Company, Woonsocket, R. I., and New York, N. Y. Worsteds and woolens in the piece. No 146,299; Sept. 6; v. 290; p. 201.
Moore, William R., Dry Goods Company, Memphis, Tenn. Ginghams, sephyrs, and cheviots in the piece. No. 146,300; Sept. 6; v. 290; p. 201.
Motor Gasket Seal Co., Los Angeles, Calif. Liquid composition for sealing gaskets, joints, &c. No. 146,542; Sept. 6; v. 290; p. 219.
Mullins, Viola B., Jacksonville, Fla. Preparation for the hair and scalp. No. 146,301; Sept. 6; v. 290; p. 201.
Naamloose Vennootschap Oliefabrieken Insulinde, Amsterdam, Netherlands. Oils used in treating textile fabrics. No. 146,302; Sept. 6; v. 290; p. 201.
Nacol, Joseph, Eunice, La. Paint and varnish remover. No. 146,303; Sept. 6; v. 290; p. 201.
Namco Products Corporation. (See North American Ginseng Co., assignors.)
National Bank of Commerce in New York, New York, N. Y. Monthly periodical. No. 146,305; Sept. 6; v. 290; p. 201.
National Carbon Company, Inc., New York, N. Y. Dry batteries. No. 146,306; Sept. 6; v. 290; p. 201.
National Sales Company, Des Moines, Iowa. Corn and popcorn products, &c. No. 146,543; Sept. 6; v. 290; p. 220.
National Trading Company, Chicago, Ill. Hair-nets and veils. No. 146,544; Sept. 6; v. 290; p. 220.
Native Son Orchards Co., Lindsay, Calif. Fresh and preserved pomegranates. No. 146,304; Sept. 6; v. 290; p. 201.
Neuss, Hesslein & Co., Inc., New York, N. Y. Woven cotton piece goods—namely, gray cotton goods. No. 146,309; Sept. 6; v. 290; p. 201.
Neustadtl, Victor, New York, N. Y. Malt and cereal beverages, malt extracts, and tonics. No. 146,308; Sept. 6; v. 290; p. 201.
Never-Skid Manufacturing Co., Incorporated, New York, N. Y. Non-skid chains and double-tired wheels. No. 146,545; Sept. 6; v. 290; p. 220.
New York Store Mercantile Company, Cairo, Ill. Foods. No. 146,310; Sept. 6; v. 290; p. 201.
Newman, I., & Sons, New Haven, Conn. Corsets. No. 146,546; Sept. 6; v. 290; p. 220.
Newman, Julius C., Cleveland, Ohio. High-grade cigars. No. 146,307; Sept. 6; v. 290; p. 201.
Nicholson, Michael, Worcester, Mass. Medicine for the treatment of epilepsy and nervous troubles. No. 146,311; Sept. 6; v. 290; p. 201.
Norman, Hodge W., Phoenix, Ariz. Liquid medicinal preparation for tuberculosis. No. 146,312; Sept. 6; v. 290; p. 201.
North American Ginseng Co., Inc., assignor to Namco Products Corporation, New York, N. Y. Hair-nets. No. 146,313; Sept. 6; v. 290; p. 201.
Northrup, King & Co., Minneapolis, Minn. Poultry and dairy feed. No. 146,314; Sept. 6; v. 290; p. 202.
Nut Grove Butter Co., Providence, R. I. Oleomargarin. Nos. 146,315–16; Sept. 6; v. 290; p. 202.
Oil Well Supply Company, Pittsburgh, Pa. Certain machinery and tools. No. 146,317; Sept. 6; v. 290; p. 202.
Osmers, Frank C., New York, N. Y. Imitation or artificial pearls. No. 146,318; Sept. 6; v. 290; p. 202.
Pascules Laboratories, Sioux City, Iowa. Non-narcotic capsules for use in after-extraction pains, especially after using novocain, procain, &c. No. 146,319; Sept. 6; v. 290; p. 202.
Page & Shaw, Inc., Cambridge, Mass. Chocolate, cocoa powder, and cocoa-butter. No. 146,320; Sept. 6; v. 290; p. 202.
Pan-American Cigar Manufacturing Co., Dover, Del., and Washington, D. C. Cigars. No. 146,321; Sept. 6; v. 290; p. 202.

Parfumerie Houbigant, Paris, France, assignor to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, face-powders, &c. Nos. 146,322–3; Sept. 6; v. 290; p. 202.
Patek Brothers, Milwaukee, Wis. Paints. No. 146,547; Sept. 6; v. 290; p. 220.
Patterson-Sargent Company, The, Cleveland, Ohio. Chemical carbon-removers. No. 146,324; Sept. 6; v. 290; p. 202.
Paulson, Henry, Chicago, Ill. Talking-machines. No. 146,325; Sept. 6; v. 290; p. 202.
Payne, A. S., Inc., North Bennington, Vt. Doll furniture. No. 146,326; Sept. 6; v. 290; p. 202.
Pearsall, B. S., Butter Co., Elgin, Ill. Butter, margarin, and oleomargarin. No. 146,548; Sept. 6; v. 290; p. 220.
Pease & Dwyer Co., Memphis, Tenn. Food for poultry, chickens, horses, and mules. No. 146,327; Sept. 6; v. 290; p. 202.
Pease & Dwyer Co., Memphis, Tenn. Feed for horses, mules, hogs, and hens. No. 146,328; Sept. 6; v. 290; p. 202.
Pease & Dwyer Co., Memphis, Tenn. Grain feed composed of corn, oats, alfalfa-meal, and molasses. No. 146,329; Sept. 6; v. 290; p. 202.
Pensco Products Co., Dayton, Ohio. Polish for furniture, automobiles, and floors, floor-wax. No. 146,330; Sept. 6; v. 290; p. 202.
Person, Frederick, Chicago, Ill. Container used as a hot-water bottle, &c. No. 146,549; Sept. 6; v. 290; p. 220.
Philo Hay Company, Newark, N. J. Henna shampoo. No. 146,332; Sept. 6; v. 290; p. 202.
Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat-flour. No. 146,550; Sept. 6; v. 290; p. 220.
Plant, Thomas G., Company, Boston, Mass. Boots, shoes, slippers, spats. No. 146,551; Sept. 6; v. 290; p. 220.
Platt-Rubin Company, Chicago, Ill. Velocipedes. No. 146,333; Sept. 6; v. 290; p. 202.
Poultry Producers of Central California, Inc., San Francisco, Calif. Eggs. Nos. 146,334–5; Sept. 6; v. 290; p. 202.
Prince, John D., Boston, Mass. Heels for boots and shoes. No. 146,552; Sept. 6; v. 290; p. 220.
Procter and Gamble Company, The, Cincinnati, Ohio. Cocoanut-oil. No. 146,337; Sept. 6; v. 290; p. 202.
Progress Roller Company, Omaha, Nebr. Rubber rollers for all inking-presses. No. 146,336; Sept. 6; v. 290; p. 202.
Pure Oil Company, The, Columbus, Ohio. Oil for treatment of road-surfaces. No. 146,338; Sept. 6; v. 290; p. 202.
Rahman, Luthfar, Chicago, Ill. Hair-dressing. No. 146,286; Sept. 6; v. 290; p. 201.
Rain-Sun Vision Shield Co., Los Angeles, Calif. Sun and rain shields for automobiles. No. 146,497; Sept. 6; v. 290; p. 214.
Realsilk Fabrics Corporation, New York, N. Y. Silk, cotton, &c., piece goods. No. 146,498; Sept. 6; v. 290; p. 215.
Realsilk Fabrics Corporation, New York, N. Y. Hosiery and underwear of silk fabric for men and women. No. 146,499; Sept. 6; v. 290; p. 215.
Rehm and Poole, New York, N. Y. Bank-checks. No. 146,340; Sept. 6; v. 290; p. 202.
Republic Belting Company, Inc., Baltimore, Md. Leather and rubber belting. No. 146,339; Sept. 6; v. 290; p. 202.
Richter Bros., Hartford, Conn. Insecticides. No. 146,341; Sept. 6; v. 290; p. 202.
Robbins, Charles H., Philadelphia, Pa. Blue and brown print papers and cloths, drawing instruments, &c. No. 146,344; Sept. 6; v. 290; p. 202.
Robert, Joseph, Paris, France. Medicinal preparation. No. 146,342; Sept. 6; v. 290; p. 202.
Robinson Manufacturing Co., Westfield, Mass. Memorandum-books and fillers therefor. No. 146,343; Sept. 6; v. 290; p. 202.
Rood Candy Co., The, Pueblo, Colo. Candy, peanut-butter, and marshmallow sundae. No. 146,345; Sept. 6; v. 290; p. 202.
Rudolph, J. C., & Company, Inc., Chicago, Ill. Cheese. No. 146,346; Sept. 6; v. 290; p. 203.
Ryan, Andrew H., Sapulpa, Okla. Salve or ointment for external uses. No. 146,347; Sept. 6; v. 290; p. 203.
Rycroft, W. W. & Co., New York, N. Y. Silk-warp henriettas, silk and wool black dress goods, &c. No. 146,348; Sept. 6; v. 290; p. 203.
Sales Department, Gillican-Chipley Co., Inc., New Orleans, La. Turpentine. No. 146,224; Sept. 6; v. 290; p. 199.
Samson, Abe, Cedarhurst, N. Y. Spark-plugs. No. 146,349; Sept. 6; v. 290; p. 203.
Samtag & Hilder Bros., New York, N. Y. Hair-nets. No. 146,350; Sept. 6; v. 290; p. 203.
Schreiber, John J., Minneapolis, Minn. Stock and poultry food. No. 146,351; Sept. 6; v. 290; p. 203.
Schramm-Schramm Co., Chicago, Ill. Material for manufacturing home brew. No. 146,352; Sept. 6; v. 290; p. 203.
Schuckl, Max, San Francisco, Calif. Canned fruits and salmon. No. 146,353; Sept. 6; v. 290; p. 203.
Scofield, Lillian E., New York, N. Y. Bluing for wool and silk. No. 146,354; Sept. 6; v. 290; p. 203.
Scott Paper Company, Chester, Pa. Paper towels and napkins. No. 146,355; Sept. 6; v. 290; p. 203.
Scranton Distributing and Manufacturing Company, Scranton, Pa. General tonic, laxative, and diuretic for stomach troubles. No. 146,356; Sept. 6; v. 290; p. 203.
Seligman and Latz, New York, N. Y. Scalp shampoo preparations. No. 146,500; Sept. 6; v. 290; p. 215.
Service Oil Refining Company, Kokomo, Ind. Gasolene, kerosene, lubricating oils and greases. No. 146,501; Sept. 6; v. 290; p. 215.
Sharp & Dohme, Baltimore, Md. Sugar substitute. No. 146,453; Sept. 6; v. 290; p. 209.
Sharp & Dohme, Baltimore, Md. Antiseptic solution. No. 146,502; Sept. 6; v. 290; p. 215.
Sharp & Dohme, Baltimore, Md. Uterine tonic. No. 146,503; Sept. 6; v. 290; p. 215.
Sharp & Dohme, Baltimore, Md. Anodyne, antipruritic ointment. No. 146,504; Sept. 6; v. 290; p. 215.
Sharples Specialty Company, Philadelphia, Pa. Centrifugal machines. No. 146,505; Sept. 6; v. 290; p. 215.
Shaw, Alex. D., & Co., New York, N. Y. Polish for woodwork, tables, and floors. No. 146,357; Sept. 6; v. 290; p. 203.
Sherman, Clay & Co., San Francisco, Calif. Harmonicas or mouth-organs. No. 146,358; Sept. 6; v. 290; p. 203.
Sherman Overall Manufacturing Company, Sherman, Tex. Children's play-suits. No. 146,359; Sept. 6; v. 290; p. 203.
Short, Philips & Healy, Inc., Seattle, Wash. Peanut-butter. No. 146,360; Sept. 6; v. 290; p. 203.
Simmons Hardware Company, St. Louis, Mo. Certain paints. No. 146,506; Sept. 6; v. 290; p. 215.
Simplex Corporation, Chicago, Ill. Locks for automobile steering posts and wheels. No. 146,507; Sept. 6; v. 290; p. 216.
Sims, Raphael, Pennsboro, W. Va. Bills of exchange. No. 146,361; Sept. 6; v. 290; p. 203.
Sinclair Refining Company, Chicago, Ill. Lubricating-oils. No. 146,362; Sept. 6; v. 290; p. 203.
Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Silk and satin goods in the piece. Nos. 146,363–4; Sept. 6; v. 290; p. 203.
Slavin, John M., San Francisco, Calif. Preparation for treatment of the hair and scalp. No. 146,508; Sept. 6; v. 290; p. 216.
Sligh, Samuel J., Orlando, Fla. Fresh citrus fruits and fresh tomatoes. No. 146,365; Sept. 6; v. 290; p. 203.
Smith, C. D., Drug Co., St. Joseph, Mo. Antiseptic solution. No. 146,366; Sept. 6; v. 290; p. 203.
Smith, Charles, Providence, R. I. Metal frames for wreaths for florists' use. No. 146,509; Sept. 6; v. 290; p. 216.
Smith, David C., Schenectady, N. Y. Paint withstanding high temperature. No. 146,367; Sept. 6; v. 290; p. 203.
Smith, William A., New York, N. Y. Mouth-wash. No. 146,368; Sept. 6; v. 290; p. 203.
Société Anonyme De Lusy, Neuilly-sur-Seine, France. Perfumes, toilet water and powders, &c. No. 146,510; Sept. 6; v. 290; p. 216.
Societe Anonyme Parfumerie Savonnerie Gilot, Paris, France. Perfumery, facial paints, dentifrices, and coloring-tinctures. No. 146,369; Sept. 6; v. 290; p. 203.
Soper, George F., Philadelphia, Pa. Marking-crayon. No. 146,511; Sept. 6; v. 290; p. 216.
Southern Paving Gravel Company, Savannah, Ga. Gravel. No. 146,512; Sept. 6; v. 290; p. 216.
Spokane Dry Goods Company, Spokane, Wash. Overalls, overall coats and suits. No. 146,513; Sept. 6; v. 290; p. 216.
Spreckels "Savage" Tire Company, The, San Diego, Calif. Rubber and rubber composition tires and tubes. No. 146,370; Sept. 6; v. 290; p. 203.
Steere, W. V. and L. M., Boston, Mass. Candy—namely, fudge. No. 146,371; Sept. 6; v. 290; p. 203.
Steinhardt, William, New York, N. Y. Shoes. No. 146,514; Sept. 6; v. 290; p. 216.
Stockland Road Machinery Company, Minneapolis, Minn. Road-graders. No. 146,515; Sept. 6; v. 290; p. 216.
Stoll Oil Refining Co., Louisville, Ky. Petroleum lubricating-oils. No. 146,372; Sept. 6; v. 290; p. 203.
Stuebner, Henry, Philadelphia, Pa. Knitting-machine sinkers. No. 146,373; Sept. 6; v. 290; p. 203.
Swaysee, William B., Winterset, Iowa. Non-alcoholic maltless non-cereal beverage. No. 146,374; Sept. 6; v. 290; p. 203.
Tah Chang Sen & Co., Shanghai, China. Dyes. No. 146,375; Sept. 6; v. 290; p. 203.
Tarantella Company, New York, N. Y. Mechanical blade-stoppers. No. 146,376; Sept. 6; v. 290; p. 203.
Thomas-Body Company, San Francisco, Calif. Canned fruits and vegetables. No. 146,377; Sept. 6; v. 290; p. 203.
Thomas Gill Soap Company, Inc., Brooklyn, N. Y. Footsoaps. No. 146,466; Sept. 6; v. 290; p. 211.
Thomas, J. Davis, Round Hill, Va. Preparation for the elimination of worms in cattle. No. 146,378; Sept. 6; v. 290; p. 203.
Titeflex Metal Hose Corporation, Newark, N. J. Pipe-couplings. No. 146,379; Sept. 6; v. 290; p. 203.
Tolman Print Inc., Brockton, Mass. Certain advertising literature. No. 146,516; Sept. 6; v. 290; p. 217.
Traub Manufacturing Company, Detroit, Mich. Fingering. No. 146,380; Sept. 6; v. 290; p. 204.
Tulite Auto Bulb Company, New York, N. Y. Electric lamps. No. 146,517; Sept. 6; v. 290; p. 217.
Turner & Moore Mfg. Co., Detroit, Mich. Gasolene-engines. No. 146,381; Sept. 6; v. 290; p. 204.

Union Twist Drill Company, Athol and Mansfield, Mass. Screw-threading tools, &c. No. 146,387; Sept. 6; v. 290; p. 204.
United States Playing Card Company, Cincinnati, Ohio. Playing-cards. No. 146,518; Sept. 6; v. 290; p. 217.
United States Wire Mat Co., Decatur, Ill. Certain devices for killing and disabling flies, &c. No. 146,519; Sept. 6; v. 290; p. 217.
United Drug Company, Boston, Mass. Shoes. No. 146,382; Sept. 6; v. 290; p. 204.
United Electric Company, The, Canton, Ohio. Electrically-operated vacuum-cleaners. No. 146,383; Sept. 6; v. 290; p. 204.
United States Electric Manufacturing Corporation, New York, N. Y. Flashlight cases and electric batteries. No. 146,384; Sept. 6; v. 290; p. 204.
United States Gutta Percha Paint Company, Saco, Me., and Providence, R. I. Ready-mixed paints. No. 146,385; Sept. 6; v. 290; p. 204.
United Stock Remedies Co., Atlanta, Ga. Tonic for hogs and chickens. No. 146,386; Sept. 6; v. 290; p. 204.
Val Blatz Brewing Company, Milwaukee, Wis. Non-alcoholic near beer, malt-tonic, and malt-syrup. No. 146,388; Sept. 6; v. 290; p. 204.
Van Bergh Silver Plate Co., Rochester, N. Y. Silver-plated hollow ware. No. 146,520; Sept. 6; v. 290; p. 217.
Van Dyk and Reeves, Brooklyn, N. Y. Dates. No. 146,389; Sept. 6; v. 290; p. 204.
Van Houten, C. J., & Zoon, Weesp, Netherlands, and Chicago, Ill. Cocoa. No. 146,390; Sept. 6; v. 290; p. 204.
Vapor-Vacuum Heating Co., Philadelphia, Pa. Vapor-vacuum heating system and certain parts thereof. No. 146,521; Sept. 6; v. 290; p. 217.
Vedo Medicine Company, The, Canton, Ohio. Tonic and appetiner for influenza, indigestion, &c. No. 146,391; Sept. 6; v. 290; p. 204.
Vermont Butterine Co., Inc., Providence, R. I. Oleomargarin. No. 146,392; Sept. 6; v. 290; p. 204.
Wabash Baking Powder Company, Wabash, Ind. Coffee, tea, and spices. No. 146,393; Sept. 6; v. 290; p. 204.
Wadsworth, Howland & Co., incorporated, Boston, Mass. Liquid paint for interior finish. No. 146,394; Sept. 6; v. 290; p. 204.
Wadsworth - Howland Company, Chicago, Ill. Barn-paint. No. 146,395; Sept. 6; v. 290; p. 204.
Wadsworth - Howland Company, Chicago, Ill. Mixed paint, varnish, enamel for decorative purposes, and liquid wood-filler. No. 146,396; Sept. 6; v. 290; p. 204.
Waldo, E. M. & F., New York, N. Y. Pigment having a combination of purposes. No. 146,397; Sept. 6; v. 290; p. 204.
Waldo, E. M. & F., New York, N. Y. Chemical used in the manufacture of rubber. No. 146,398; Sept. 6; v. 290; p. 204.
Waldo, E. M. & F., New York, N. Y. Pigment having a combination of purposes. No. 146,399; Sept. 6; v. 290; p. 204.
Walker Properties Association, Austin, Tex. Canned chilli-con-carne and hot tamales. No. 146,522; Sept. 6; v. 290; p. 217.
Wallace & Co., Brooklyn, N. Y. Candies. No. 146,523; Sept. 6; v. 290; p. 217.
Warren, Webster & Company, Camden, N. J. Valves for controlling steam and water. No. 146,400; Sept. 6; v. 290; p. 204.
Webster, Harry W., Toledo, Ohio. Wall-paper. No. 146,401; Sept. 6; v. 290; p. 204.
Weldely Motors Company, Indianapolis, Ind. Internal-combustion engines. No. 146,403; Sept. 6; v. 290; p. 204.
Weir Frog Company, The, Norwood, Ohio. Frogs, guard-rail clamps, rail-braces, ties. No. 146,402; Sept. 6; v. 290; p. 204.
Whitaker Paper Company, The, Baltimore, Md. Wrapping-paper. No. 146,404; Sept. 6; v. 290; p. 204.
White, David, Co., Inc., Milwaukee, Wis. Drawing and surveying instruments. No. 146,405; Sept. 6; v. 290; p. 204.
White, J. J., Paper Co., Canton, Mass. Waterproof papers. No. 146,406; Sept. 6; v. 290; p. 204.
Whittemore Brothers, Corporation, Cambridge, Mass. Shoe-dressing. No. 146,524; Sept. 6; v. 290; p. 218.
Wichert & Gardiner, Brooklyn, N. Y. Shoes and slippers. No. 146,525; Sept. 6; v. 290; p. 218.
Wickwire Spencer Steel Corporation, Worcester, Mass. Woven-wire screen-cloth. No. 146,407; Sept. 6; v. 290; p. 204.
Williams-Loper, Oshkosh, Wis. Automobile air and water filling post. No. 146,282; Sept. 6; v. 290; p. 201.
Wills Manufacturing Co., The, Scranton, Pa. Bitter stomach-tonic. No. 146,408; Sept. 6; v. 290; p. 204.
Winebrenner, D. C., & Son, Inc., Frederick, Md. Coffee. No. 146,409; Sept. 6; v. 290; p. 204.
Wisconsin Motor Manufacturing Co., West Allis, Wis. Truck, tractor, automobile, &c., motors. No. 146,526; Sept. 6; v. 290; p. 218.
Wolf River Sand Co., Memphis, Tenn. Sand and gravel. No. 146,527; Sept. 6; v. 290; p. 218.
Wyman Partridge & Co., Minneapolis, Minn. Linen crash. No. 146,410; Sept. 6; v. 290; p. 204.
Yellow Cab Manufacturing Co., Chicago, Ill. Automobiles. No. 146,411; Sept. 6; v. 290; p. 204.
Yvette Co., New York, N. Y. Hair-tonics. No. 146,412; Sept. 6; v. 290; p. 204.
Z. and S. Middy Co., New York, N. Y. Middy-blouses. No. 146,297; Sept. 6; v. 290; p. 201.
Zechnowitz, Samuel, New York, N. Y. Tea. No. 146,413; Sept. 6; v. 290; p. 204.
Zwiebelson, Abraham, New York, N. Y. Brassières and corsets. No. 146,528; Sept. 6; v. 290; p. 218.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Ayer, Harriet Hubbard, New York, N. Y. "Luxuria." (For a Cosmetic Marvel Superior to Cold-Cream.) Nos. 23,335–6; Sept. 6; v. 290; p. 223.
Ayer, Harriet Hubbard, New York, N. Y. "The Ayeristocrat (of All)." (For Finishing Vanishing Non-Greasy Cream.) No. 23,337; Sept. 6; v. 290; p. 223.
Ayer, Harriet Hubbard, New York, N. Y. "Snowdrift." (For Preparations for Increasing the Brilliancy and Removing the Yellowness from White or Gray Hair.) No. 23,338; Sept. 6; v. 290; p. 223.
Ayer, Harriet Hubbard, New York, N. Y. "Lotion de Fraises (Strawberry Lotion)." (For Invigorant for the Skin.) No. 23,339; Sept. 6; v. 290; p. 223.
Ayer, Harriet Hubbard, New York, N. Y. "Bath Salts." (For Preparations for Perfuming and Softening Bath-Water.) No. 23,340; Sept. 6; v. 290; p. 223.
Berks Knitting Company, Reading, Pa. "Bonnie Belle." (For Hosiery.) No. 23,341; Sept. 6; v. 290; p. 223.
Blom, Benjamin, Detroit, Mich. "Blom's Home Made Peur-Egg Mayonnaise." (For Mayonnaise.) No. 23,342; Sept. 6; v. 290; p. 223.
Burger, Iwan, Inc., New York, N. Y. "Norbest." (For Sardines.) No. 23,344; Sept. 6; v. 290; p. 223.
Burgoon, E., Columbus, Ohio. "Mother's Pile Ointment." (For Medicinal Salve.) No. 23,345; Sept. 6; v. 290; p. 223.
Burk-Donaldson-Taylor Fruit Company, Denver, Colo. "Extra Select Diamond Brand." (For Boxes of Grapefruit.) No. 23,343; Sept. 6; v. 290; p. 223.
Burns, John, Buffalo, N. Y. "Sal-Li-Lax." (For Medicines for Disorders of the Stomach, Liver, and Bowels.) No. 23,346; Sept. 6; v. 290; p. 223.
California Brewing Association, San Francisco, Calif. "Light Acme a Healthful Beverage." (For Barrels, Containers, or Packages for Containing the Beverage.) No. 23,347; Sept. 6; v. 290; p. 223.
Cheek-Neal Coffee Company, Nashville, Tenn. "Hotel Galvez." (For Coffee.) No. 23,348; Sept. 6; v. 290; p. 223.
Collins-Hencke Candy Co., San Francisco, Calif. "Gingham Girl." (For Candy.) No. 23,350; Sept. 6; v. 290; p. 223.
Collins, J. N., Company, Minneapolis, Minn. "Honey Scotch." (For Candy.) No. 23,349; Sept. 6; v. 290; p. 223.
Creech Chemical Co., Smithfield, N. C. "Johnston's Dentex." (For Bottles Containing a Tooth-Cleaner.) No. 23,351; Sept. 6; v. 290; p. 223.
Duncan, James Floyd, Mount Vernon, Ill. "The Dont Worry Tire Patch." (For Patches Prepared for Use in Repairing Rubber Articles.) No. 23,352; Sept. 6; v. 290; p. 223.
Evans, Elise M., New York, N. Y. "Cupids Haunt." For Articles of Women's Apparel, Ladies' Waists or Blouses, Underwear, Hosiery, Neckwear, Sweaters, Corsets, Gloves, and Dresses.) No. 23,353; Sept. 6; v. 290; p. 223.
Farmers Mutual Creamery Inc. (See Menasha Printing and Carton Company, assignors.)
Fortune Products Company, Chicago, Ill. "Fortune." (For Egg-Noodles.) No. 23,354; Sept. 6; v. 290; p. 223.
Furnish, Richard D., Boston, Mass. "F C L." (For Labels Applied to Containers for a Mange and Dandruff Remedy.) No. 23,355; Sept. 6; v. 290; p. 223.
Gibbs & Co., Chicago, Ill. "Margie Cap Net." (For Hair-Nets.) No. 23,356; Sept. 6; v. 290; p. 223.
Gibbs & Co., Chicago, Ill. "Charlotte Fringe Net." (For Hair-Nets.) Nos. 23,357–8; Sept. 6; v. 290; p. 223.
Globe Bottling & Sales Co. "Arrow." (For a Cereal Malt Beverage.) No. 23,359; Sept. 6; v. 290; p. 223.
Griffin Broom Company, The, Chanute, Kans. "Made-Right." (For Brooms.) No. 23,360; Sept. 6; v. 290; p. 223.
Henning Wennersten Incorporated, Chicago, Ill. "Berg's Best." (For Malt Exeracts.) No. 23,361; Sept. 6; v. 290; p. 223.
Herzog, Moses, New York, N. Y. "Jannetta." (For Hair-Nets.) No. 23,362; Sept. 6; v. 290; p. 223.
Hirsch, Walter J., Company, Chicago, Ill. "Peanut Kake." (For Candy.) No. 23,363; Sept. 6; v. 290; p. 223.

Hoefner, A., & Sons, Buffalo, N. Y. "Silver Gloss Laundry Soap." (For Soap.) No. 23,364; Sept. 6; v. 290; p. 223.

International Refining Company, San Antonio, Tex. "Apple Brand Shortening." (For a Compound of Choice Cotton-Seed Oil and Vegetable Stearin for Cooking Purposes.) No. 23,365; Sept. 6; v. 290; p. 223.

Johnstown Sanitary Dairy Company. (See Menasha Printing and Carton Company, assignors.)

Kiesling, Charles E., Canton, Ohio. "Hedrelef." (For Medicine Tablets for Headache, Neuralgia, Colds, La Grippe, Aches, and Pains.) No. 23,366; Sept. 6; v. 290; p. 223.

Kinnett Coal & Ice Company. (See Menasha Printing and Carton Company, assignors.)

Kornberg, S., Chicago, Ill. "The Bull Dog Grip." (For Leather Goods, Traveling-Bags, and Suitcases.) No. 23,367; Sept. 6; v. 290; p. 223.

Lantz Bros. Baking Co., St. Louis, Mo. "Grandma's Cake." (For Cake.) No. 23,368; Sept. 6; v. 290; p. 223.

Liggett & Myers Tobacco Company, New York, N. Y. "Home Run." (For Wrappers Inclosing or Containing Cigarettes.) No. 23,369; Sept. 6; v. 290; p. 223.

May Department Stores Company, New York, N. Y. "Good Value." (For Toilet-Paper, Being Applied to the Package Containing the Same.) No. 23,370; Sept. 6; v. 290; p. 223.

May Department Stores Company, New York, N. Y. "Old Linen." (For Toilet-Paper, Being Applied to the Package Containing the Same.) No. 23,371; Sept. 6; v. 290; p. 224.

May Department Stores Company, New York, N. Y. "The Winner." (For Toilet-Paper, Being Applied to the Package Containing the Same.) No. 23,372; Sept. 6; v. 290; p. 224.

May Department Stores Company, New York, N. Y. "Sanatory." (For Toilet-Paper, Being Applied to the Package Containing the Same.) No. 23,373; Sept. 6; v. 290; p. 224.

Memphis Bread Company, Memphis, Tenn. "Happy Home." (For Bread.) No. 23,374; Sept. 6; v. 290; p. 224.

Menasha Printing & Carton Company, Menasha, Wis., assignor to Thacher Ice Cream Company, Pittsburgh, Pa. "Thacher Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,375; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha., Wis., assignor to Terre Haute Pure Milk & Ice Cream Company, Terre Haute, Ind. "Our Favorite Creamery Butter." (For Cartons Containing Butter.) No. 23,376; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha., Wis., assignor to Farmers Mutual Creamery, Inc., Abingdon, Va. "Virginia's Best Creamery Butter." (For Cartons Containing Butter.) No. 23,377; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha., Wis., assignor to Potomac Butter Company, Washington, D. C. "Potomac Creamery Butter." (For Cartons Containing Butter.) No. 23,378; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Odom Ice Cream Company, Macon, Ga. "Odom's Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,379; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Miller Creamery Company, Oakland, Calif. "Miller's Quality Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,380; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to The Quaker Creamery Company, Minneapolis, Minn. "Quaker Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,381; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Kinnett Coal & Ice Company, Macon, Ga. "Kinnett's Velvet Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,382; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. "Telling's Ice Cream Dolly Madison." (For Cartons Containing Ice-Cream.) No. 23,383; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. "Telling's Ice Cream Martha Washington." (For Cartons Containing Ice-Cream.) No. 23,384; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. "Telling's Ice Cream Belle Vernon." (For Cartons Containing Ice-Cream.) No. 23,385; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to The Telling-Belle Vernon Company, Cleveland, Ohio. "Telling's Vanilla Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,386; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Johnstown Sanitary Dairy Company, Johnstown, Pa. "Sanitary Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,387; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Metropolitan Ice Cream Company, Newark, N. J. "Metropolitan Ice Cream." (For Cartons Containing Ice-Cream.) No. 23,388; Sept. 6; v. 290; p. 224.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Sanitary Bakery, Berwick, Pa. "Dainty Bread." (For Waxed Paper Bread-Wrappers Containing Bread.) No. 23,389; Sept. 6; v. 290; p. 224.

Metropolitan Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)

Metzner, H. & G., Albany, N. Y. "United States Panama Canal Cigar." (For Cigars.) No. 23,390; Sept. 6; v. 290; p. 224.

Miller Creamery Company. (See Menasha Printing and Carton Company, assignors.)

Morris, Mann & Reilly, Chicago, Ill. "Red Seal Pure Wool Powder Puffs." (For Powder-Puffs.) No. 23,391; Sept. 6; v. 290; p. 224.

National Paper Can Company, The, Milwaukee, Wis. "Pure Sugar Stick Candy." (For Stick-Candy.) No. 23,392; Sept. 6; v. 290; p. 224.

Northrop, King & Co., Minneapolis, Minn. "No Kil Scratch Feed." (For Bags of Poultry Feed.) No. 23,393; Sept. 6; v. 290; p. 224.

Odom Ice Cream Company. (See Menasha Printing and Carton Company, assignors.)

Olsen, Andrew, Jr., San Francisco, Calif. "Trio Nuggets." (For Packages Containing Candy and Confectionery.) No. 23,394; Sept. 6; v. 290; p. 224.

Olsen, Andrew, Jr., San Francisco, Calif. "Walnut Nuggets." (For Packages Containing Candy and Confectionery.) No. 23,395; Sept. 6; v. 290; p. 224.

Oppenheimer, A. E., & Bro., Philadelphia, Pa. "Princess Hair Pins." (For Boxes and Packages Containing Hair-Pins.) No. 23,396; Sept. 6; v. 290; p. 224.

Pep-Step Corp., Cedar Rapids, Iowa. "Pep-Step." (For Cartons Containing Foot-Pads.) No. 23,397; Sept. 6; v. 290; p. 224.

Pine Salve Co., Norfolk, Va. "Pine Salve." (For Bottles Containing Soothing and Healing Salve.) No. 23,398; Sept. 6; v. 290; p. 224.

Potomac Butter Company. (See Menasha Printing and Carton Company, assignors.)

Quaker Creamery Company, The. (See Menasha Printing and Carton Company, assignors.)

Republic Metalware Company, Buffalo, N. Y. "R M Wash Boiler—Helps Make the Perfect Wash Day—Reliably Made by Hand." (For Washboilers.) No. 23,399; Sept. 6; v. 290; p. 224.

Robinson, W. H., Cairo, Ga. "White Label Brand." (For Pure Georgia Cane-Syrup.) No. 23,400; Sept. 6; v. 290; p. 224.

Royal Scottish Golf Co. Limited, Brooklyn, N. Y. "Royal Scottish Golf Co. Limited Standard Ball." (For Cardboard Boxes Containing Golf-Balls.) No. 23,401; Sept. 6; v. 290; p. 224.

Sanitary Bakery. (See Menasha Printing and Carton Company, assignors.)

Saniwax Paper Co., Kalamazoo, Mich. "Potato." (For Bread.) No. 23,402; Sept. 6; v. 290; p. 224.

Saniwax Paper Co., Kalamazoo, Mich. "Honey Krust." (For Bread.) No. 23,403; Sept. 6; v. 290; p. 224.

Schoenhofen Company, Chicago, Ill. "Green River." (For Soft Drinks.) No. 23,404; Sept. 6; v. 290; p. 224.

St. Albans Grain Company, St. Albans, Vt. "Worthmore Buttermilk Baby-Chick Food." (For Buttermilk Baby-Chick Food.) No. 23,405; Sept. 6; v. 290; p. 224.

Strauss Bros., Chicago, Ill. "B. & J. B." (For Cigar-Boxes.) No. 23,406; Sept. 6; v. 290; p. 224.

Telling-Belle Vernon Company, The. (See Menasha Printing and Carton Company, assignors.)

Terre Haute Pure Milk Company. (See Menasha Printing and Carton Company, assignors.)

Thacher Ice Cream Company. (See Menasha Printing & Carton Company, assignor.)

Tipton-Berry Cigar Company, The. "Tipton-Berry's Guaranteed Mild Havana Pageant." (For Cigars.) No. 23,407; Sept. 6; v. 290; p. 225.

True Shape Hosiery Co., Philadelphia, Pa. "True Shape." (For Hosiery.) Nos. 23,408–9; Sept. 6; v. 290; p. 225.

Truthan, Edwin, New York, N. Y. "Topaz Brand Malt Extract." (For Malt Extract.) No. 23,410; Sept. 6; v. 290; p. 225.

Watkins, R. L., Company, The, Cleveland, Ohio. "Watkins Mulsified Cocoanut Oil Shampoo." (For Advertising Purposes for Watkins Mulsified Cocoanut-Oil Shampoo.) No. 23,411; Sept. 6; v. 290; p. 225.

Watts, Edward J., Berkeley, Calif. "E-Z Way." (For Container for Soap in Powder Form.) No. 23,413; Sept. 6; v. 290; p. 225.

Worch, Albert, St. Paul, Minn. "La Sebana." (For Cigars, Cigarettes, and Tobacco.) No. 23,412; Sept. 6; v. 290; p. 225.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Banov, Leon, New York, N. Y. "Clar-O-Type." (For Material for Cleaning Typewriters.) No. 5,730; Sept. 6; v. 290; p. 226.

Bryant, Augustus H., Bloomfield, N. J., and New York, N. Y. "Blue Back Blades." (For Advertising Purposes for Safety-Razor Blades.) No. 5,731; Sept. 6; v. 290; p. 226.

Columbia Carbon Company, Dayton, Ohio. "The Mineral Wax Twins, Clean and Good." (For Advertising Purposes for Inked Ribbons and Carbon-Sheets for Duplicating or Transferring Impressions.) No. 5,732; Sept. 6; v. 290; p. 226.

Fairbank, N. K., Company, The, New York, N. Y. "The Symbol of Fairy Purity." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) No. 5,733; Sept. 6; v. 290; p. 226.

Fairbank, N. K., Company, The, New York, N. Y. "Gold Dust Costs Little Goes Far." (For Advertising Purposes for Gold Dust Washing-Powder.) No. 5,734; Sept. 6; v. 290; p. 226.

Fairbank, N. K., Company, The, New York, N. Y. "Kept Clean with Gold Dust." (For Advertising Purposes for Gold-Dust Washing-Powder.) No. 5,735; Sept. 6; v. 290; p. 226.

Fairbank, N. K., Company, The, New York, N. Y. "Fairy Soap Pure White Floating." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) No. 5,736; Sept. 6; v. 290; p. 226.

Fairbank, N. K., Company, The, New York, N. Y. "For Your Spring Cleaning Gold Dust." (For Advertising Purposes for Gold Dust Washing-Powder.) No. 5,737; Sept. 6; v. 290; p. 226.

Kelly, J. A., & Brothers, Clinton, Iowa. "Kelly Comfort Chairs." (For Advertising Purposes for Reclining-Chairs.) No. 5,738; Sept. 6; v. 290; p. 226.

McLendon, Abner P., Waco, Tex. "It's The Taste That Tells." (For Advertising Purposes on Ice-Cream.) No. 5,739; Sept. 6; v. 290; p. 226.

Nyal Co., Detroit, Mich. "Nyal Corn Remover for Mine." (For Advertising Purposes for a Corn Remedy.) No. 5,740; Sept. 6; v. 290; p. 226.

Oswald, Jaeger Baking Co., Milwaukee, Wis. "4th of July." (For Advertising Purposes for Bread.) No. 5,741; Sept. 6; v. 290; p. 226.

Oswald Jaeger Baking Co., Milwaukee, Wis. "Labor Day." (For Advertising Purposes for Bread.) No. 5,742; Sept. 6; v. 290; p. 226.

Oswald Jaeger Baking Co., Milwaukee, Wis. "Thanksgiving." (For Advertising Purposes for Bread.) No. 5,743; Sept. 6; v. 290; p. 226.

Pick, Albert & Co., Chicago, Ill. "Pinks the Distinctive Straw." (For Advertising Purposes for Drinking Straws.) No. 5,744; Sept. 6; v. 290; p. 226.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Go on and get a pipe and some P. A.!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,745; Sept. 6; v. 290; p. 226.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "P. A. in a pipe? Say, now, you're setting real words to real music." (For Advertising Purposes for Smoking-Tobacco.) No. 5,746; Sept. 6; v. 290; p. 226.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "It's Prince Albert's quality that rings so true to your taste!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,747 Sept. 6; v. 290; p. 226.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Get yours, too! Put it up to a pipe—and P. A.!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,748; Sept. 6; v. 290; p. 226.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "Gee!—How good a pipe tastes with P. A. for the packing!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,749; Sept. 6; v. 290; p. 226.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. "You bet you'll enjoy a jimmy pipe—if it's packed with Prince Albert!" (For Advertising Purposes for Smoking-Tobacco.) No. 5,750; Sept. 6; v. 290; p. 226.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Adams-Morgan Company, Montclair, N. J. Radio apparatus. No. 137,696; Sept. 6; v. 290; p. 169.

Aktiebolaget Eskilstuna Separator, Eskilstuna, Sweden. Milk or cream separators. No. 146,198; Sept. 6; v. 290; p. 180.

Alinell Mfg. Co., Worcester, Mass. Interior warm-water or oil wall-finish. No. 142,881; Sept. 6; v. 290; p. 172.

American Drug and Chemical Co., Gettysburg, Pa. Toy chemical sets. No. 150,178; Sept. 6; v. 290; p. 194.

American Hide and Leather Company, Chicago, Ill. Leather. No. 146,860; Sept. 6; v. 290; p. 182.

American Oil Company, Providence, R. I. Lubricating-oils, dynamo, screw-cutting loom, and spindle oil. No. 148,015; Sept. 6; v. 290; p. 187.

Anderson, John D., New York, N. Y. Medicinal yeast preparations for the treatment of debility, stomach disorders, &c. No. 146,245; Sept. 6; v. 290; p. 180.

Aron, J., & Company, Inc., New York, N. Y. Coffee. No. 148,785; Sept. 6; v. 290; p. 190.

Arwood, Sam B., Preacher, Va. Medicinal treatment of gonorrhea, blood medicine, &c. No. 132,835; Sept. 6; v. 290; p. 167.

Asahel Wheeler Company, Boston, Mass. Ready-mixed paints and varnishes. No. 136,320; Sept. 6; v. 290; p. 168.

Aspegren, John, New York, N. Y. Prime cooking-oil obtained from soy-beans. No. 147,701; Sept. 6; v. 290; p. 186.

Atlantic Macaroni Co. Inc., Long Island City, N. Y. Macaroni. No. 145,053; Sept. 6; v. 290; p. 176.

Atlantic Refining Company, The, Philadelphia, Pa. Turpentine substitute. No. 148,691; Sept. 6; v. 290; p. 190.

Atlas Specialty Company, Inc., Richmond, Va. Table-syrup and molasses. No. 134,231; Sept. 6; v. 290; p. 167.

Auerbach, Charles H., and R. P. Auerbach, Chicago, Ill. Insecticides, germicides, and related products. No. 148,112; Sept. 6; v. 290; p. 188.

Autohome Plate Company, Ellensburg, Wash. Name and licence plates for motor-vehicles. No. 146,160; Sept. 6; v. 290; p. 179.

Bassick Company, The, Bridgeport, Conn. Casters. No. 150,002; Sept. 6; v. 290; p. 194.

Bassick Company, The, Bridgeport, Conn. Casters. No. 150,093; Sept. 6; v. 290; p. 194.

Beals, Allen E., Corporation, New York, N. Y. Daily and weekly publication, newspaper, magazine or report. No. 148,115; Sept. 6; v. 290; p. 188.

Bemis Bros. Bag Co., St. Louis, Mo. Parcel-post mailing-envelops. No. 142,244; Sept. 6; v. 290; p. 172.

Benoliel, Solomon D., Philadelphia, Pa. Swabbing compound for cannon. No. 145,493; Sept. 6; v. 290; p. 177.

Bernheimer, Jacob S., & Bro., New York, N. Y. Cotton voile in the piece. No. 148,113; Sept. 6; v. 290; p. 188.

Bianchini, Férier, Lyon, France. Piece goods of silk. Nos. 148,699–700; Sept. 6; v. 290; p. 190.

Blake, McFall Company, Portland, Oreg. Paper bags. No. 142,687; Sept. 6; v. 290; p. 173.

Blarette Manufacturing Co., Los Angeles, Calif. Electrical devices comprising gasifiers adapted to be positioned between carbureters and internal-combustion engines, spark-plugs. No. 142,004; Sept. 6; v. 290; p. 171.

Blaw-Knox Company, Pittsburgh, Pa. Steel buildings. No. 145,813; Sept. 6; v. 290; p. 178.

Borgfeldt, George, Co., New York, N. Y. Bisque-headed dolls. No. 143,909; Sept. 6; v. 290; p. 174.

Bowman Drug Co., Oakland, Calif. Perfumes, powders, rouge, &c. No. 146,108; Sept. 6; v. 290; p. 179.

Brien Manufacturing Co., Oakland, Calif. Table-cloths and napkins. No. 135,404; Sept. 6; v. 290; p. 168.

Brierley, John R., Brooklyn, N. Y. Chemical compound for treating the nasal cavities and throat. No. 123,294; Sept. 6; v. 290; p. 166.

Bruder, Edmund, Chicago, Ill. Game-board, game-indicator, game-counter, &c. No. 147,332; Sept. 6; v. 290; p. 184.

Bruder, Edmund, Chicago, Ill. Game-board, game-indicator, game-counter, &c. No. 147,703; Sept. 6; v. 290; p. 186.

Bruder, Edmund, Chicago, Ill. Game-board, game-indicator, game-counter, &c. No. 148,529; Sept. 6; v. 290; p. 190.

Bruns, Benjamin J., Cincinnati, Ohio. General medicinal system-tonic. No. 148,788; Sept. 6; v. 290; p. 190.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Bryden Horse Shoe Co., Catasaqua, Pa. Horseshoes and horseshoe-calks. No. 98,918; Sept. 6; v. 290; p. 165.
Bullard, O. W., & F. C. Bullard, Sheridan, Wyo. Frozen confections and base for same. No. 145,874; Sept. 6; v. 290; p. 179.
California Citrograph Publishing Company, Los Angeles, Calif. Monthly magazine. No. 149,631; Sept. 6; v. 290; p. 193.
California Paint Company, Oakland, Calif. Mixed and dry paints, stains, varnishes, paint enamels, &c. No. 146,109; Sept. 6; v. 290; p. 179.
Carolina Crushed Shell Co., Charleston, S. C. Crushed oyster-shell used as poultry feed. No. 150,514; Sept. 6; v. 290; p. 195.
Catania, Francesco P., Philadelphia, Pa. Preparation used in the treatment of tuberculosis, and a preparation for treatment of the eyes. No. 148,374; Sept. 6; v. 290; p. 189.
Cement Gun Construction Company, Chicago, Ill. Cement, mortar, concrete, &c. No. 128,916; Sept. 6; v. 290; p. 166.
Cereal Products Refining Company, San Francisco, Calif. Cereal malt beverage syrup concentrate. No. 146,481; Sept. 6; v. 290; p. 180.
Chapin & Company, Hammond, Ind., and Chicago, Ill. Prepared poultry feed. No. 147,092; Sept. 6; v. 290; p. 183.
Chatham Manufacturing Company, Winston-Salem, N. C. Blankets made of wool and cotton or a combination of wool and cotton. No. 148,484; Sept. 6; v. 290; p. 190.
Chicago Pneumatic Tool Company, New York, N. Y. Pneumatic tools—namely, riveting-hammers. No. 146,296; Sept. 6; v. 290; p. 180.
Clayton-Wright, Ltd., Birmingham, England. Electric horns and electric-lighting systems for motor-vehicles. No. 146,756; Sept. 6; v. 290; p. 181.
Clyde Collins Company, Inc., The, Memphis, Tenn. Tonic for rheumatism. No. 148,430; Sept. 6; v. 290; p. 189.
Colgate & Company, Jersey City, N. J. Soaps. Nos. 149,444–5; Sept. 6; v. 290; p. 193.
Commercial Furniture Company, Chicago, Ill. Desks. No. 146,876; Sept. 6; v. 290; p. 182.
Corona Braid Works, Corona, N. Y. Mercerized cottons, &c., soutache, shell-braids. No. 144,666; Sept. 6; v. 290; p. 175.
Crown Willamette Paper Company, San Francisco, Calif. Paper bags. No. 142,695; Sept. 6; v. 290; p. 173.
Crown Willamette Paper Company, San Francisco, Calif. Paper bags. Nos. 145,319–20; Sept. 6; v. 290; p. 177.
Curtiss Candy Co., Chicago, Ill. Candy. No. 146,414; Sept. 6; v. 290; p. 180.
Cutler-Magner Co., Duluth, Minn. Block-salt. No. 148,423; Sept. 6; v. 290; p. 189.
Davis, Horace W., New York, N. Y. Bleach, beauty, cold, and cleansing creams, face-powders, rouge, &c. No. 148,133; Sept. 6; v. 290; p. 188.
Decatur Brewing Company, Decatur, Ill. Malt extract used as a food product. No. 147,415; Sept. 6; v. 290; p. 184.
Doss Rubber & Tube Co. Inc., Atlanta, Ga. Rubber tires. No. 134,241; Sept. 6; v. 290; p. 167.
Doublene Oil Co., Chicago, Ill. Lubricating-oils. No. 143,636; Sept. 6; v. 290; p. 173.
Dry Oil Products, Ltd., London, England, and New York, and Trout Creek, N. Y. Cathartic or other medicinal cookie, cake, or cracker containing castor-oil, &c. No. 148,258; Sept. 6; v. 290; p. 188.
Du-Rite Products Co., New York, N. Y. Liquid preparation for polishing finished surfaces. No. 147,820; Sept. 6; v. 290; p. 187.
Dunn, John, Son & Co., New York, N. Y. Painters' materials. No. 140,870; Sept. 6; v. 290; p. 171.
Dura Mechanical Hardware Co. Inc., Toledo, Ohio. Window-regulators. No. 145,675; Sept. 6; v. 290; p. 178.
East and West Trading Corporation, New York, N. Y. Human-hair nets. No. 149,692; Sept. 6; v. 290; p. 194.
Empire Cream Separator Company, Bloomfield, N. J. Centrifugal separators. No. 134,359; Sept. 6; v. 290; p. 167.
Empire Cream Separator Company, Bloomfield, N. J. Milking-machines and milking-machine systems and parts thereof. No. 134,360; Sept. 6; v. 290; p. 168.
Fairbanks Co., The, New York, N. Y. Mill-baskets, oil-cabinets, tool-chests, hose-reels, &c. No. 142,208; Sept. 6; v. 290; p. 172.
Fairbanks Co., The, New York, N. Y. Detachable link belts, fusible boiler-plugs, bibs, &c. No. 142,250; Sept. 6; v. 290; p. 172.
Federal Rubber Company, The, Cudahy, Wis. Repair gums, rubber cement made wholly or partly of rubber. No. 146,881; Sept. 6; v. 290; p. 182.
Federal Rubber Company, The, Cudahy, Wis. Repair gums, rubber cement. No. 146,888; Sept. 6; v. 290; p. 182.
Federal Rubber Company, The, Cudahy, Wis. Repair gums, rubber cement. No. 146,895; Sept. 6; v. 290; p. 182.
Filmolens Sales Co., Detroit, Mich. Devices for diffusing light, such as lenses for automobile-lamps, &c. No. 150,894; Sept. 6; v. 290; p. 195.
Firth Sterling Steel Company, McKeesport, Pa. Steel including tool and die steel. No. 149,583; Sept. 6; v. 290; p. 193.
Gasser, Florence P., Reading, Pa. Potato chips. No. 149,184; Sept. 6; v. 290; p. 191.
Gibbs, Walter A., Chester, Pa. Animal-trap. No. 148,934; Sept. 6; v. 290; p. 191.
Gifford-Wood Company, Hudson, N. Y. Rubber, &c., conveyer-belting. Nos. 121,583–4; Sept. 6; v. 290; p. 165.
Goldenberg Brothers & Company, New York, N. Y. Cotton piece goods. No. 149,587; Sept. 6; v. 290; p. 193.
Goldsborough, John B., *et al.* (See Stim-U-Plant Tablet Co., assignor.)
Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber belting. No. 116,463; Sept. 6; v. 290; p. 165.
Gordon, Lucius L., Mobile, Ala. Furniture-polish. No. 127,567; Sept. 6; v. 290; p. 166.
Gould, Arthur, New York, N. Y. Liquid nail-polish, mud massage, lemon cream, &c. No. 146,909; Sept. 6; v. 290; p. 182.
Great Western Smelting & Refining Company, Chicago, Ill. Solder. No. 149,282; Sept. 6; v. 290; p. 192.
Grey, C. M., Mfg. Co., East Orange, N. J. Electric cut-out switches, spark-timers, ignition-distributers, &c. No. 146,824; Sept. 6; v. 290; p. 181.
Gulbransen-Dickinson Company, Chicago, Ill. Player-pianos. No. 140,591; Sept. 6; v. 290; p. 170.
Hall Products Co., Portland, Oreg. Dressing for leather, rubber, and fabrics in general, &c. No. 148,440; Sept. 6; v. 290; p. 189.
Harriet Hubbard Ayer, New York, N. Y. Cold, face, massage, and vanishing creams, skin and tissue builder, &c. No. 146,618; Sept. 6; v. 290; p. 187.
Hayden, Henry F., Washington, D. C. Vegetable liquid boiler compound and also antifreezing compound. No. 140,646; Sept. 6; v. 290; p. 171.
Helwig & Leitch, Baltimore, Md. Bluing. No. 148,225; Sept. 6; v. 290; p. 188.
Holcomb & Hoke Mfg. Co., Indianapolis, Ind. Heat-resisting glassware for the popping-chamber in popcorn-machines, &c. No. 146,967; Sept. 6; v. 290; p. 183.
Holmes Chemical Company Inc., Elisabeth, N. J., and New York, N. Y. Insecticide. No. 148,277; Sept. 6; v. 290; p. 188.
Homeaid Products Co., Jersey City, N. J. Preparation for exterminating vermin on the human body and hair. No. 148,071; Sept. 6; v. 290; p. 187.
Homeaid Products Co., Jersey City, N. J. Preparation for treatment of warts. No. 148,072; Sept. 6; v. 290; p. 187.
Homestead Growers' Assn., Homestead, Fla. Fresh tomatoes. No. 139,275; Sept. 6; v. 290; p. 170.
Hooper, Wm. E., & Sons Co., Baltimore, Md. Cotton-duck paper-felts, oil-press cloth, cider-press cloth, &c. No. 147,724; Sept. 6; v. 290; p. 186.
Houdlett, Albert & Sons, Inc., Brooklyn, N. Y. Banjos, mandolins, &c. No. 145,211; Sept. 6; v. 290; p. 177.
Houston Brothers, Vicksburg, Miss. Dressed and undressed lumber. No. 145,565; Sept. 6; v. 290; p. 177.
Howlett & Hockmeyer Co., Inc., New York, N. Y. Cotton fabrics in the piece. No. 149,549; Sept. 6; v. 290; p. 193.
Hughes-Keenan Company, Mansfield, Ohio. Metal toilet partitions. No. 146,077; Sept. 6; v. 290; p. 179.
International Drug Company, Wilmington, Del. Toilet soap. No. 149,185; Sept. 6; v. 290; p. 191.
International Toy Manufacturing Co., Seattle, Wash. Toy dog. No. 145,109; Sept. 6; v. 290; p. 176.
Ismert-Hincke Milling Company, The, Kansas City, Kans., and Kansas City, Mo. Mixed wheat and corn flour. No. 143,866; Sept. 6; v. 290; p. 174.
Jefferson Forge Products Company, The, Detroit, Mich. Steel drop-forgings. No. 148,384; Sept. 6; v. 290; p. 189.
Johnson, B. M., Manufacturing Co., Jackson, Tenn. Headache-tablets, quinin sulfate, liver pills, &c. No. 143,645; Sept. 6; v. 290; p. 173.
Johnson, Le Roy J., Logansport, Ind. Bread. No. 134,368; Sept. 6; v. 290; p. 168.
Jonesees Manufacturing Co., Berkeley, Calif. Flat wood toy figures depicting human beings and animals. No. 141,423; Sept. 6; v. 290; p. 171.
Kappler-Fox Foundry Co., The, Philadelphia, Pa. Gas, coal, and oil. No. 150,754; Sept. 6; v. 290; p. 195.
Karpen, S., & Bros., Chicago, Ill. Upholstered davenports, sofas, rockers, &c. No. 148,929; Sept. 6; v. 290; p. 174.
Kolynos Company, The, New Haven, Conn. Soap. No. 149,406; Sept. 6; v. 290; p. 192.
Komo Chemical Company, Philadelphia, Pa. Fly liquids. No. 138,860; Sept. 6; v. 290; p. 169.
Kopp, C. M., Company, The, Yakima, Wash. Fresh onions. No. 145,069; Sept. 6; v. 290; p. 176.
Kronyte Manufacturing Corporation, Rochester, N. Y. Fiber gaskets and packings, and fiber in sheet form for gaskets and packings. No. 147,668; Sept. 6; v. 290; p. 186.
Kuehnle, C. Albert, Co., Inc., Philadelphia, Pa. Paints, ready mixed and in paste form, varnishes, &c. No. 149,332; Sept. 6; v. 290; p. 192.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

L & W Toe and Heel Savers, Newark, N. J. Toe and Heel protectors. No. 150,278; Sept. 6; v. 290; p. 194.
Laclede-Christy Clay Products Company, St. Louis, Mo. Fire brick and tile. No. 150,904; Sept. 6; v. 290; p. 195.
Lake Region Packing Association, Tavares, Fla. Fresh citrus fruits. No. 146,534; Sept. 6; v. 290; p. 181.
Lakeland Phosphate & Fertiliser Company, Wilmington, Del., and Lakeland, Fla. Fertilisers, &c. No. 143,931; Sept. 6; v. 290; p. 174.
Lee Tire & Rubber Co., Whitemarsh township, Montgomery county, Pa. Pneumatic rubber tires. No. 142,446; Sept. 6; v. 290; p. 172.
Levin Store Co., Lindsborg, Kans. Roasted coffee. No. 145,023; Sept. 6; v. 290; p. 176.
Leyse Aluminum Company, Kewaunee, Wis. Aluminum cooking utensils. No. 129,728; Sept. 6; v. 290; p. 166.
Little Giant Company, Mankato, Minn. Power-hammers and metal and wood lathes. No. 147,436; Sept. 6; v. 290; p. 184.
Log Cabin Products Company, The, St. Paul, Minn. Syrups for table purposes. No. 147,672; Sept. 6; v. 290; p. 186.
Loft Incorporated, New York, N. Y. Candies. No. 148,081; Sept. 6; v. 290; p. 187.
Lull, R. V., Ithaca, N. Y. Preservative cleaner polish and restorative for varnished and enameled surfaces. No. 147,433; Sept. 6; v. 290; p. 184.
Magnus, Saul, & Henry G. Mosler, Los Angeles, Calif. Food syrups, candies, nuts, plain, salted, and candied, fruits, &c. No. 136,989; Sept. 6; v. 290; p. 169.
Manowitz, J., & Sons, New York, N. Y. Linen-duck padding in the piece. No. 149,715; Sept. 6; v. 290; p. 194.
Manufacturing Company of America, Philadelphia, Pa. Candy. No. 147,936; Sept. 6; v. 290; p. 187.
Mappin & Webb Limited, London, England. Knives, forks, scissors, razors, &c. Nos. 130,424–5; Sept. 6; v. 290; p. 167.
Marathon Tire and Rubber Company, The, Cuyahoga Falls, Ohio. Golf-balls and golf-stick grips. No. 149,923; Sept. 6; v. 290; p. 194.
Martellotta, Giovanni, New York, N. Y. Hair-tonic and dandruff remedy. No. 148,395; Sept. 6; v. 290; p. 189.
Masterphone Corporation of America, New York, N. Y. Phonograph-needles. No. 147,834; Sept. 6; v. 290; p. 187.
McDougall-Butler Co. Inc., Buffalo, N. Y. Paint enamel. No. 149,412; Sept. 6; v. 290; p. 192.
Melchior Supply Co., Chicago, Ill. Hair tonics and dressings. No. 139,041; Sept. 6; v. 290; p. 169.
Meriden Creamery Company, The, Kansas City, Mo. Creamery-butter. No. 147,203; Sept. 6; v. 290; p. 183.
Miller & Headley Company, The, Toledo, Ohio. Cotton sheeting, sheets, and pillow-cases. No. 145,030; Sept. 6; v. 290; p. 176.
Miller, Dr. O. A., Chemical Company Incorporated, Parsons, W. Va. Antiseptic mouth-wash. No. 148,293; Sept. 6; v. 290; p. 189.
Miller, Jacob, Sons & Co., Philadelphia, Pa. Cotton, silk goods and linen and mixtures of cotton, silk, and linen. No. 149,340; Sept. 6; v. 290; p. 192.
Miller, Max, New York, N. Y. Perfumes and facial creams, milk massage-cream, face-powder, &c. No. 146,776; Sept. 6; v. 290; p. 181.
Miller Rubber Company, The, Akron, Ohio. Dolls. No. 150,763; Sept. 6; v. 290; p. 195.
Minerva, Sociedad Anónima, Malaga, Spain. Alimentary oils. No. 138,774; Sept. 6; v. 290; p. 169.
Mohler Bros. Coffee Company, Hattiesburg, Miss. Coffee. No. 148,501; Sept. 6; v. 290; p. 190.
Moore, Walter N., Dry Goods Co., San Francisco, Calif. Woven romper-cloths, piece goods. No. 143,873; Sept. 6; v. 290; p. 174.
Morrison, Benjamin R., Wilmington, N. C. Sanitary receptacles for toothbrushes. No. 145,840; Sept. 6; v. 290; p. 179.
Moses, Stephen E., Birmingham, Ala. Hair-grower. No. 145,792; Sept. 6; v. 290; p. 178.
Nathan & Cie. Laboratories Cadum, Courbevoie, France. Toilet and shaving soap. No. 149,237; Sept. 6; v. 290; p. 191.
National Asbestos Manufacturing Co., Jersey City, N. J. Prepared roofing. No. 145,579; Sept. 6; v. 290; p. 178.
National Drug Stores Corp., New York, N. Y. Toothpaste. No. 148,962; Sept. 6; v. 290; p. 191.
National Paint Syndicate, Inc., New York, N. Y. Paint enamels, ready-mixed paints, varnishes, and furniture-polish. No. 149,346; Sept. 6; v. 290; p. 192.
National Products Co., Eau Claire, Wis. Face washes and creams, talcum powders, toilet waters, hair-tonics, &c. No. 148,342; Sept. 6; v. 290; p. 189.
National Trading Company, Chicago, Ill. Hair-nets. No. 139,588; Sept. 6; v. 290; p. 170.
Neversalp Manf. Co., The, New Brunswick, N. J. Horseshoes and horseshoe-calks. No. 98,908; Sept. 6; v. 290; p. 165.
Newark Tortoise Shell Novelty Co., Newark, N. J. Hair-receivers, bottle-holders, salve-jars, pin-boxes, and pin-trays. No. 135,527; Sept. 6; v. 290; p. 168.
Nissley Creamery Company, Fort Worth, Tex. Milk, buttermilk, ice-cream, cheese, &c. No. 133,486; Sept. 6; v. 290; p. 167.
Novelty Products Company, The, Berkeley, Calif. Toy coaster. No. 144,198; Sept. 6; v. 290; p. 175.
Nupoint Mfg. Co., Chicago, Ill. Phonograph-needles. No. 144,681; Sept. 6; v. 290; p. 176.
Oden, Eugene R., San Francisco, Calif. Paint and waterproof coatings. No. 145,702; Sept. 6; v. 290; p. 178.
Ohio Steel Foundry Company, The, Lima, Ohio. Metal castings. No. 148,731; Sept. 6; v. 290; p. 181.
Opera Disc Company, Incorporated, New York, N. Y. Phonograph-records. No. 145,648; Sept. 6; v. 290; p. 178.
Oregon Growers Cooperative Assn., Salem, Oreg. Dried and fresh fruits and berries. No. 146,584; Sept. 6; v. 290; p. 180.
Owen, Charles A., Meadville, Pa. Malted milk and malted milk chocolate. No. 143,512; Sept. 6; v. 290; p. 173.
Parker-Kiskadden Company, Detroit, Mich. Transmission and like greases. No. 149,202; Sept. 6; v. 290; p. 191.
Penboss, Lucy, Brooklyn, N. Y. Packing. No. 139,473; Sept. 6; v. 290; p. 170.
Pittsburgh Tool Steel Wire Company, Monaca, Pa. Drill-rods and cold-drawn steel. No. 149,243; Sept. 6; v. 290; p. 191.
Poldi Steel Corporation of America, New York, N. Y. Steel billets, bars, forgings, and desks. Nos. 146,391–2; Sept. 6; v. 290; p. 180.
Prontic Druggists, Inc., The, Baltimore, Md. Bromics, cold and grippe tablets, kidney and bladder pills, &c. No. 147,047; Sept. 6; v. 290; p. 183.
Pruyn, Francis L., *et al.* (See Stim-U-Plant Tablet Co., assignor.)
Radio Corporation of America, New York, N. Y. Electrical vacuum-tubes and valves. Nos. 146,929–30; Sept. 6; v. 290; p. 183.
Radior Co. Ltd. of London, New York, N. Y. Skin-soap. No. 125,245; Sept. 6; v. 290; p. 166.
Raymond Granite Company, San Francisco and Los Angeles, Calif. Construction materials. No. 141,806; Sept. 6; v. 290; p. 171.
Renovite Corporation, New York, N. Y. Dried, ready-mixed, and paste paints, varnish, &c. No. 148,090; Sept. 6; v. 290; p. 188.
Rex Supply Company, Inc., Oakland, Calif. Toilet tank ball-cocks and trough ball-cocks. No. 150,335; Sept. 6; v. 290; p. 195.
Reynolds, Raymond E., Columbus, Ohio. Medicinal preparation for the relief of kidney and bladder trouble. No. 147,311; Sept. 6; v. 290; p. 183.
Richardson, W. H., Baltimore, Md. Medicinal preparation for impure blood, rheumatism, &c. No. 141,882; Sept. 6; v. 290; p. 171.
Rober, Lewis J., Minneapolis, Minn. Baseball-game ball. Nos. 144,352–3; Sept. 6; v. 290; p. 175.
Rockwell, Byrd C., Camden, Ark. Screen-doors. No. 150,255; Sept. 6; v. 290; p. 194.
Roethlisberger & Co. Inc., New York, N. Y. Cheese. Nos. 147,313–14; Sept. 6; v. 290; pp. 83–4.
Sacks, I., & Sons, New York, N. Y. Silks in the piece. No. 149,030; Sept. 6; v. 290; p. 191.
San Antonio Drug Co., San Antonio, Tex. Baseballs. No. 142,422; Sept. 6; v. 290; p. 172.
Scheffer & Roesum Co., St. Paul, Minn. Stationary vulcanising plants. No. 128,281; Sept. 6; v. 290; p. 166.
Scheidt, Adam, Brewing Co., Norristown, Pa. Malt extract. No. 143,787; Sept. 6; v. 290; p. 174.
Schwarzenbach, Huber & Company, West Hoboken, N. J., and New York, N. Y. Broad silks in the piece. No. 148,351; Sept. 6; v. 290; p. 189.
Scranton Silk Machine Company, Scranton, Pa. Machinery used in the preparation and treatment of silk and silk manufactures. No. 134,660; Sept. 6; v. 290; p. 168.
Selditch, Pincus, Philadelphia, Pa. Phonographs. No. 148,713; Sept. 6; v. 290; p. 174.
Seven Oils Company, The, Boston, Mass. Medicated candy tablets for throat irritations. No. 129,574; Sept. 6; v. 290; p. 166.
Shalita Bros., New York, N. Y. Sheet-metal caps and pails. No. 140,613; Sept. 6; v. 290; p. 171.
Shapiro, Bernstein & Co. Inc., New York, N. Y. Printed musical compositions. No. 142,538; Sept. 6; v. 290; p. 173.
Sherwin Publishing Corporation, New York, N. Y. Biweekly magazine. No. 147,530; Sept. 6; v. 290; p. 185.
Shu-Milk Products Corporation, Belleville, N. J. Shoe-polishes. No. 149,247; Sept. 6; v. 290; p. 192.
Silica Products Co. Inc., San Francisco, Calif. Polishing and cleaning compounds in cake and powdered form. No. 149,526; Sept. 6; v. 290; p. 193.
Smith, Lucius A., Buffalo, N. Y. Trusses. No. 139,012; Sept. 6; v. 290; p. 169.
Snyder, Andrew M., Hamilton, Ohio. Furniture and auto polish. No. 149,654; Sept. 6; v. 290; p. 194.
Société Anonyme des Usines Giulini, Basel, Switzerland. Aluminium, alloys of aluminium, and solders. No. 148,955; Sept. 6; v. 290; p. 191.
Sonora, Inc., New York, N. Y. Talking-machines, phonographs, music-boxes. No. 145,089; Sept. 6; v. 290; p. 176.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 3, 1907.]

Southern Cotton Oil Company, Jersey City and Bayonne, N. J.; New York, N. Y.; Gretna, La.; Savannah, Ga., and Chicago, Ill. Prepared fatty oleaginous or unctuous food substances. Nos. 147,580–6; Sept. 6; v. 290; pp. 185–6.

Southern Spring Bed Co., Atlanta, Ga. Mattresses, iron and brass beds, and bed-springs. No. 139,233; Sept. 6; v. 290; p. 169.

Standard Oil Company, San Francisco, Calif. Flushing-oil. Nos. 145,976–7; Sept. 6; v. 290; p. 179.

Standard Varnish Works, New York, N. Y. Varnish, varnish-remover, liquid drier, black lacquer, &c. No. 148,627; Sept. 6; v. 290; p. 190.

Stanley, William W., New York, N. Y. Waterproofed cotton duck and canvas. No. 147,579; Sept. 6; v. 290; p. 185.

Star Milling Company, Statesville, N. C. Self-rising wheat-flour. No. 139,319; Sept. 6; v. 290; p. 170.

State Leaf Tobacco Co., The, New York, N. Y. Cigar-boxes. No. 142,536; Sept. 6; v. 290; p. 172.

Stebbins, E., Manufacturing Company, Springfield, Mass. Faucets, cocks, and bibs. No. 143,670; Sept. 6; v. 290; p. 173.

Stim-U-Plant Tablet Co., Newark, N. J., assignors to F. L. Pruyn, New York, and J. B. Goldsborough, Croton-on-the-Hudson, N. Y. Plant food in tablet form. No. 136,534; Sept. 6; v. 290; p. 168.

Stock, Jno. J., Erdenheim, Pa. Trackless trolley amusement-vehicle. No. 144,301; Sept. 6; v. 290; p. 166.

Stone, Nannie P., Nashville, Tenn. Preparation for use in bleaching the skin, &c. No. 146,848; Sept. 6; v. 290; p. 182.

Storick, Harold C., Berrien Springs, Mich. Liniment, and a preparation for the treatment of croup. No. 146,596; Sept. 6; v. 290; p. 181.

Superior Sheet Steel Company, The, Louisville, Ohio. Rolled steel in various forms and finishes. No. 148,039; Sept. 6; v. 290; p. 187.

Texas Company, The, Houston and Port Arthur, Tex., and New York, N. Y. Petroleum, asphalt oils, bensin, &c. No. 129,955; Sept. 6; v. 290; p. 166.

Thom, Charles E., Los Angeles, Calif. Bottled ginger-ale. No. 144,207; Sept. 6; v. 290; p. 175.

Tru-Blu Biscuit Company, Spokane, Wash. Biscuit and bakery products. No. 144,486; Sept. 6; v. 290; p. 175.

Tru-Blu Biscuit Company, Spokane, Wash. Biscuits, cakes, and bakery products. No. 144,487; Sept. 6; v. 290; p. 175.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Golf-balls. No. 133,806; Sept. 6; v. 290; p. 167.

Vulcan Motor Axle Corporation, Detroit, Mich. Axles for pleasure-automobiles and automobile-trucks. No. 140,622; Sept. 6; v. 290; p. 171.

Ward Baking Company, New York, N. Y. Bread. No. 140,511; Sept. 6; v. 290; p. 170.

Wells Flour Milling Company, Wells, Minn. Wheat-flour. No. 145,296; Sept. 6; v. 290; p. 177.

Western Soap Company, Spokane, Wash. Laundry soap. No. 149,367; Sept. 6; v. 290; p. 192.

Will, William C., Buffalo, N. Y. Eggs. No. 147,381; Sept. 6; v. 290; p. 184.

Witman, Warren F., Philadelphia, Pa. Paints. No. 143,725; Sept. 6; v. 290; p. 174.

Woods, George O., Fargo, N. D. Table game. No. 138,610; Sept. 6; v. 290; p. 169.

Wright, Rosa B., Washington, D. C. Polishes for automobiles, furniture, floors, &c. No. 150,086; Sept. 6; v. 290; p. 194.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 6TH DAY OF SEPTEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abradant-supplying apparatus. W. G. Hastings. No. 1,390,128; Sept. 6; v. 290; p. 115.

Accretions, Removing. S. R. Garr and R. F. Barker. No. 1,389,751; Sept. 6; v. 290; p. 88.

Acids, Manufacture of naphthalene sulfonic. J. A. Ambler and H. D. Gibbs. No. 1,390,241; Sept. 6; v. 290; p. 136.

Acoustic diaphragm. W. H. Davis and F. E. Joss. No. 1,389,632; Sept. 6; v. 290; p. 14.

Aero-propeller efficiency-indicator. T. P. Horne. No. 1,389,830; Sept. 6; v. 290; p. 54.

Aeroplane-propeller. G. F. Welher. No. 1,389,609; Sept. 6; v. 290; p. 10.

Aeroplanes, Metal fitting for assembling longitudinals and uprights in. P. J. R. Postel-Vinay. No. 1,390,216; Sept. 6; v. 290; p. 132.

Agricultural implements, Power. G. C. Wooddell and H. C. Reeser. No. 1,389,612; Sept. 6; v. 290; p. 10.

Air and gas, Blower and exhauster for moving. C. M. Conder. No. 1,390,237; Sept. 6; v. 290; p. 135.

Airplane. R. M. Thompson. No. 1,389,797; Sept. 6; v. 290; p. 48.

Airplane-brake. C. V. Haynes. No. 1,389,757; Sept. 6; v. 290; p. 39.

Airscrew having adjustable blades. W. C. Russell. No. 1,389,991; Sept. 6; v. 290; p. 87.

Alloy of iron zirconium and silicon and the production thereof. N. Petinot. No. 1,389,695; Sept. 6; v. 290; p. 27.

Alloy of nickel and iron and the production thereof. N. Petinot and R. Turnbull. No. 1,389,696; Sept. 6; v. 290; p. 27.

Alphabet, Means for classifying biformed. G. Fabyan. No. 1,390,027; Sept. 6; v. 290; p. 94.

Animal-trap. L. Chute. No. 1,389,626; Sept. 6; v. 290; p. 13.

Animal-trap. J. R. Eastridge. No. 1,389,636; Sept. 6; v. 290; p. 15.

Antiskid device. I. J. Thompson. No. 1,389,607; Sept. 6; v. 290; p. 9.

Apron. H. W. Parker. No. 1,389,689; Sept. 6; v. 290; p. 26.

Arch-supporter. W. M. Ludwig. No. 1,389,767; Sept. 6; v. 290; p. 41.

Auger. R. W. Charlton. No. 1,389,578; Sept. 6; v. 290; p. 4.

Auto-shoe-expanding tool. C. A. Moore and D. K. Thornton. No. 1,389,837; Sept. 6; v. 290; p. 56.

Automobile accessory. E. M. Rosenbluth. No. 1,389,901; Sept. 6; v. 290; p. 69.

Automobile attachment. J. M. Sears. No. 1,389,847; Sept. 6; v. 290; p. 58.

Automobile attachment. M. Von Babo. No. 1,389,717; Sept. 6; v. 290; p. 32.

Automobile-cover. P. F. King. No. 1,390,187; Sept. 6; v. 290; p. 117.

Automobile gasolene-shut-off apparatus. A. C. Keppler. No. 1,389,876; Sept. 6; v. 290; p. 64.

Automobile-headlight. C. G. Worley. No. 1,389,726; Sept. 6; v. 290; p. 33.

Automobile-jack. V. V. Curtis. No. 1,390,090; Sept. 6; v. 290; p. 107.

Automobile-lock. F. O. Boswell. No. 1,389,933; Sept. 6; v. 290; p. 76.

Automobile-pump. J. G. Perrin. No. 1,389,782; Sept. 6; v. 290; p. 45.

Automobile-radiator. O. Froberg. No. 1,389,749; Sept. 6; v. 290; p. 38.

Automobile-signal. G. E. Davis. No. 1,390,094; Sept. 6; v. 290; p. 108.

Automobile-signal. G. Lockhart. No. 1,389,673; Sept. 6; v. 290; p. 23.

Automobile-signal. L. J. Miller and W. W. Christian. No. 1,390,150; Sept. 6; v. 290; p. 119.

Automobile steering control. D. A. Boswell. No. 1,389,620; Sept. 6; v. 290; p. 12.

Automobile-wheel rim. A. J. Kobanski. No. 1,390,141; Sept. 6; v. 290; p. 117.

Automobiles, Clutch control for. F. S. Maynard. No. 1,390,148; Sept. 6; v. 290; p. 119.

Automobiles, Combination seat and bed for. L. G. Taylor. No. 1,390,177; Sept. 6; v. 290; p. 124.

Automobiles, Control apparatus for transmissions and brakes of. C. B. and L. F. Day, and J. F. Baker. No. 1,389,816; Sept. 6; v. 290; p. 51.

Automobiles, Sash-lifting device for. O. W. Whitehead. No. 1,390,003; Sept. 6; v. 290; p. 89.

Automobiles, Tractor attachment for. J. D. Caldwell. No. 1,389,576; Sept. 6; v. 290; p. 4.

Axles, Lubricating device for railway-vehicle. E. Mooney. No. 1,389,965; Sept. 6; v. 290; p. 82.

Back and belly band holder. J. H. Forme. No. 1,390,115; Sept. 6; v. 290; p. 113.

Bacterial cultures, Receptacle for. M. J. Hollowood. No. 1,389,659; Sept. 6; v. 290; p. 20.

Badge and detachable watch-guard, Combined. L. E. Thomas. No. 1,389,711; Sept. 6; v. 290; p. 30.

Basket, Shipping. W. L. Pitts. No. 1,389,897; Sept. 6; v. 290; p. 69.

Bathtubs, Backrest for. M. Stern. No. 1,390,221; Sept. 6; v. 290; p. 132.

Batteries, Apparatus for charging storage. W. R. Hersh. No. 1,389,871; Sept. 6; v. 290; p. 63.

Batteries, Electrolyte for storage. W. Gardiner. No. 1,389,750; Sept. 6; v. 290; p. 38.

Battery: *See*—
Dry-cell electric battery.

Bearing. H. A. S. Howarth. No. 1,390,130; Sept. 6; v. 290; p. 115.

Bearing. H. A. S. Howarth. No. 1,390,131; Sept. 6; v. 290; p. 116.

Bearing for spreader-shafts. H. Synck. No. 1,389,606; Sept. 6; v. 290; p. 9.

Bearing, Shaft-hanger. H. R. Reynolds. (Reissue.) No. 15,187; Sept. 6; v. 290; p. 140.

Bed, Folding couch-. H. H. Megary. No. 1,390,248; Sept. 6; v. 290; p. 137.

Bed, Panel-. M. F. Bayer. No. 1,389,931; Sept. 6; v. 290; p. 75.

Bed-spring frame. M. F. Bayer. No. 1,389,930; Sept. 6; v. 290; p. 75.

Beet-topping apparatus. M. A. Smith. No. 1,389,708; Sept. 6; v. 290; p. 29.

Bell, Clock and call-. E. I. Halsted. No. 1,390,127; Sept. 6; v. 290; p. 115.

Belt or cord and machine and process for making the same, Endless. E. Rivett. No. 1,389,699; Sept. 6; v. 290; p. 27.

Belt tightener and lacer. C. S. Humbert. No. 1,389,760; Sept. 6; v. 290; p. 40.

Binder, Adjustable. A. H. De Voe. No. 1,390,195; Sept. 6; v. 290; p. 128.

Binder, Loose-leaf. J. T. Brumfield. No. 1,390,016; Sept. 6; v. 290; p. 92.

Biscuit and doughnut cutter. G. E. Kirkpatrick. No. 1,390,138; Sept. 6; v. 290; p. 117.

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Scoop-board.

Boat. T. L. Fox. No. 1,389,865; Sept. 6; v. 290; p. 61.

Boats, Motor-propeller for. A. N. Thompson and A. P. Knauber. No. 1,389,712; Sept. 6; v. 290; p. 30.

Boiler-brace. R. J. McKay and F. R. Cooper. No. 1,389,889; Sept. 6; v. 290; p. 67.

Boiler-furnace. A. Spyer. No. 1,390,225; Sept. 6; v. 290; p. 133.

Bolt: *See*—
Drawbolt.

Bolt-machines, Feeding mechanism for. H. Thomas. No. 1,389,916; Sept. 6; v. 290; p. 72.

Book covering and binding machine. C. A. Juengst. No. 1,389,762; Sept. 6; v. 290; p. 40.

Book, Loose-leaf. T. E. Heeter. No. 1,389,658; Sept. 6; v. 290; p. 20.

Book, Record and reference. A. R. Towers. (Reissue.) No. 15,189; Sept. 6; v. 289; p. 140.

Book-support. A. Rodow. No. 1,389,700; Sept. 6; v. 290; p. 28.

Bookkeeping apparatus and the like. F. M. Holmes. No. 1,389,872; Sept. 6; v. 290; p. 63.

Bottle-capper. L. M. Rouse. No. 1,389,786; Sept. 6; v. 290; p. 46.

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Gas-mantle box. Sound-box.

Box. J. B. Fox. No. 1,390,116; Sept. 6; v. 290; p. 113.

Box-gluing apparatus. O. A. Lucas. No. 1,390,052; Sept. 6; v. 290; p. 100.
Box-sealing machine. W. Peet. No. 1,390,059; Sept. 6; v. 290; p. 101.
Boxes and covers, Chart for selecting outlet-. H. G. Knoderer. No. 1,390,044; Sept. 6; v. 290; p. 98.
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Boiler-brace.
Braiding-machine. A. Littlefield. No. 1,389,672; Sept. 6; v. 290; p. 28.
Brake: *See*—
Airplane-brake. Electropneumatic brake.
Brake-levers, Manufacturing. W. A. Kern. No. 1,390,207; Sept. 6; v. 290; p. 130.
Brake mechanism. H. Lantz. No. 1,389,952; Sept. 6; v. 290; p. 79.
Breeding-crate. J. C. Schuls. No. 1,389,993; Sept. 6; v. 290; p. 87.
Brick, tile, &c., Material for and forming. L. Jones and C. Westlake, Jr. No. 1,390,038; Sept. 6; v. 290; p. 97.
Brush, Fountain-. O. James. No. 1,389,665; Sept. 6; v. 290; p. 21.
Brush, Fountain paint-. F. J. and A. H. Miller. No. 1,389,772; Sept. 6; v. 290; p. 42.
Brush, Radiator-. E. M. Martin. No. 1,389,957; Sept. 6; v. 290; p. 80.
Buckle, Apparel-. A. H. Kerngood. No. 1,389,948; Sept. 6; v. 290; p. 79.
Builders' planks from cement, Machine for cleaning. P. Sauset. No. 1,390,218; Sept. 6; v. 290; p. 132.
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Burner for heating-stoves. O. J. Rosselot. No. 1,389,990; Sept. 6; v. 290; p. 86.
Burner-support. S. Pearson. No. 1,389,841; Sept. 6; v. 290; p. 57.
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Calendar-pad and holder therefor. F. A. Hale. No. 1,389,754; Sept. 6; v. 290; p. 39.
Calf-weaner. F. Schmidt. No. 1,390,061; Sept. 6; v. 290; p. 102.
Calk-lock. E. C. Sadler. No. 1,390,165; Sept. 6; v. 290; p. 122.
Camera, Photographic. M. P. Sarfaty. No. 1,389,992; Sept. 6; v. 290; p. 87.
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Cameras, Film-moving mechanism for motion-picture. J. E. Leonard. No. 1,390,247; Sept. 6; v. 290; p. 137.
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Can-end-lining machine. C. W. Graham. No. 1,389,752; Sept. 6; v. 290; p. 38.
Can-ends to can-bodies, Hermetically attaching. D. P. Robinson. No. 1,389,900; Sept. 6; v. 290; p. 69.
Can heading and flanging machine. L. C. Sharp. No. 1,389,703; Sept. 6; v. 290; p. 28.
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Canning apparatus. E. W. B. Kugel. No. 1,390,142; Sept. 6; v. 290; p. 118.
Car-fender. W. B. Garrard. No. 1,389,943; Sept. 6; v. 290; p. 78.
Car for children, Adjustable. C. Bradway. No. 1,389,854; Sept. 6; v. 290; p. 59.
Car, Scooter-. J. Dittrick, Sr. No. 1,389,633; Sept. 6; v. 290; p. 15.
Car-ventilator. A. Steger. No. 1,389,788; Sept. 6; v. 290; p. 46.
Cars, Safety-signal for street-. H. P. Hoppe. No. 1,389,660; Sept. 6; v. 290; p. 21.
Cars, Side bearing for railway-. E. Posson. No. 1,389,698; Sept. 6; v. 290; p. 27.
Carbonaceous substance, Transporting. L. W. Bates. No. 1,390,230; Sept. 6; v. 290; p. 134.
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Carton, Container and display-. W. M. and C. J. Doering. No. 1,390,196; Sept. 6; v. 290; p. 128.
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Cash-drawer, Automatic. C. R. Randall. No. 1,389,981; Sept. 6; v. 290; p. 85.
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Chandelier, Electric-light. S. M. Israel. No. 1,389,881; Sept. 6; v. 290; p. 55.
Cheese and sterilizing the same. L. E. Carpenter and E. E. Eldredge. No. 1,389,577; Sept. 6; v. 290; p. 4.
Chocolate, &c., Process and apparatus for refining. W. C. Schöppner. No. 1,390,251; Sept. 6; v. 290; p. 138.
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Clip: *See*—
Display-clip.
Clock, Master-. J. W. Bryce. No. 1,390,018; Sept. 6; v. 290; p. 93.
Clock, watch, and the like timekeeping instrument. A. Jarred. No. 1,389,666; Sept. 6; v. 290; p. 21.
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Clutch, Friction-. J. A. Bried. No. 1,389,855; Sept. 6; v. 290; p. 60.
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Truck-frame for mine-cars. F. S. Barks. No. 1,389,928; Sept. 6; v. 290; p. 75.
Truck-frame for railway-cars. H. A. Benedict and E. M. Moller. No. 1,389,616; Sept. 6; v. 290; p. 11.
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Typewriter. C. Spiro. No. 1,389,911; Sept. 6; v. 290; p. 71.
Typewriting-machine. A. G. F. Kurowski. No. 1,389,949; Sept. 6; v. 290; p. 79.
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Vehicle-jack. W. E. Burrows. No. 1,389,737; Sept. 6; v. 290; p. 36.
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Vehicle-tank construction. A. A. Kramer. No. 1,390,045; Sept. 6; v. 290; p. 98.
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Vehicles, Propelling mechanism for. J. R. Broach. No. 1,389,735; Sept. 6; v. 290; p. 35.
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Car-ventilator.
Ventilator. A. Pfau. No. 1,389,896; Sept. 6; v. 290; p. 68.
Vessels, Construction for raising sunken. P. Donaire. No. 1,390,097; Sept. 6; v. 290; p. 109.
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Vise-post. J. F. Bixler and J. A. Long. No. 1,390,189; Sept. 6; v. 290; p. 127.
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Waterproof gum. S. E. Brick. No. 1,389,575; Sept. 6; v. 290; p. 3.
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Gear-wheel. Tractor-wheel.
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Non-skid wheel.
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Automobile-body. A. R. Zwebell. No. 58,912; Sept. 6; v. 290; p. 150.
Automobile-radiators, Nipple attachment for. R. Stirling, Jr. No. 58,952; Sept. 6; v. 290; p. 158.
Automobile-vehicle trailer. J. H. Labourdette. Nos. 58,917–18; Sept. 6; v. 290; p. 151.
Badge, button, pin, brooch, or emblem. L. R. Scarborough. No. 58,945; Sept. 6; v. 290; p. 157.
Bath-mitten. C. Neugebauer. No. 58,930; Sept. 6; v. 290; p. 154.
Building-blocks, Box for a set of. B. Reichenbach. No. 58,940; Sept. 6; v. 290; p. 156.
Button. A. M. Lisby. No. 58,921; Sept. 6; v. 290; p. 152.
Buttton, badge, or similar article. I. Smith. No. 58,949; Sept. 6; v. 290; p. 157.
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Electric lights, Contact device for portable. J. T. Drufva. Nos. 58,894–6; Sept. 6; v. 290; pp. 147–8.
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Humidor for cigars. G. Teasdale. No. 58,955; Sept. 6; v. 290; p. 158.
Knitted cap. D. F. Byrnes. No. 58,879; Sept. 6; v. 290; p. 144.
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Lamp, Boudoir-. J. S. Apfel. Nos. 58,864–5; Sept. 6; v. 290; p. 141.
Lamp-globe. C. A. Campbell. No. 58,880; Sept. 6; v. 290; p. 144.
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Reflectors. J. S. Massey. No. 58,923; Sept. 6; v. 290; p. 152.
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Spoon and fork, Combined. J. Domingo y Cañellas. No. 58,881; Sept. 6; v. 290; p. 144.
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Absorbent material to absorb gases. Barnebey-Cheney Engineering Company. No. 146,172; Sept. 6; v. 290; p. 197.
Accounting-forms. Curwin's Accountancy Co. No. 146,207; Sept. 6; v. 290; p. 198.
Advertising literature. Tolman Print Inc. No. 146,516; Sept. 6; v. 290; p. 217.
Anodyne, antipruritic ointment. Sharp & Dohme. No. 146,504; Sept. 6; v. 290; p. 215.
Antiseptic solution. Sharp & Dohme. No. 146,502; Sept. 6; v. 290; p. 215.
Antiseptic solution. C. D. Smith Drug Co. No. 146,366; Sept. 6; v. 290; p. 203.
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Automobile steering posts and wheels, Lock for. Simplex Corporation. No. 146,507; Sept. 6; v. 290; p. 216.
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Automobiles, Sun and rain shields for. Rain-Sun Vision Shield Co. No. 146,497; Sept. 6; v. 290; p. 214.
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Batteries, Dry. National Carbon Company. No. 146,306; Sept. 6; v. 290; p. 201.
Batteries, Electric. Cincinnati Storage Battery Company. No. 146,444; Sept. 6; v. 290; p. 209.
Batteries, Storage. B. Dubinski. No. 146,455; Sept. 6; v. 290; p. 210.
Batteries, Storage. Paul M. Marko & Co. No. 146,535; Sept. 6; v. 290; p. 219.
Beds, couches, springs, &c. Englander Spring Bed Co. No. 146,450; Sept. 6; v. 290; p. 210.
Beds, cribs, bed-springs, mattresses. Barcalo Manufacturing Company. No. 146,429; Sept. 6; v. 290; p. 207.
Beer, near beer, malt tonic, &c. Val Blatz Brewing Company. No. 146,388; Sept. 6; v. 290; p. 204.
Belting, Leather and rubber. Republic Belting Company. No. 146,339; Sept. 6; v. 290; p. 202.
Beverage. Hedge's Orange Ale Co. No. 146,479; Sept. 6; v. 290; p. 212.
Beverage, Non-alcoholic, maltless, non-cereal. W. B. Swayzee. No. 146,374; Sept. 6; v. 290; p. 203.
Beverages, malt extracts and tonics, Malt and cereal. V. Neustadtl. No. 146,308; Sept. 6; v. 290; p. 201.
Bills of exchange. R. Sims. No. 146,361; Sept. 6; v. 290; p. 203.
Biscuits, Mixed. Consumers Biscuit Co. No. 146,445; Sept. 6; v. 290; p. 209.
Blouses, dresses, coats, smocks. Jacobs Brothers. No. 146,265; Sept. 6; v. 290; p. 200.
Blowers. Champion Blower & Forge Co. No. 146,439; Sept. 6; v. 290; p. 208.
Bluing. L. E. Scofield. No. 146,354; Sept. 6; v. 290; p. 203.
Books and filers therefor, Memorandum-. Robinson Manufacturing Co. No. 146,343; Sept. 6; v. 290; p. 202.
Boots, shoes, slippers, spats. Thomas G. Plant Company. No. 146,551; Sept. 6; v. 290; p. 220.
Brassières and corsets. A. Zwiebelson. No. 146,528; Sept. 6; v. 290; p. 218.
Bread. E. J. F. Hanson. No. 146,230; Sept. 6; v. 290; p. 199.
Brew, Material for home. Schrumm-Schrumm Co. No. 146,352; Sept. 6; v. 290; p. 203.
Butter. E. Kent. No. 146,271; Sept. 6; v. 290; p. 200.
Butter, margarin, &c. B. S. Pearsall Butter Co. No. No. 146,548; Sept. 6; v. 290; p. 220.
Cakes. Iten Biscuit Co. No. 146,264; Sept. 6; v. 290; p. 200.
Candles. Wallace & Co. No. 146,523; Sept. 6; v. 290; p. 217.
Candy. De Met and Company. No. 146,210; Sept. 6; v. 290; p. 198.
Candy. W. V. & L. M. Steere. No. 146,371; Sept. 6; v. 290; p. 203.
Candy, peanut-butter, marshmallow sundae. Rood Candy Co. No. 146,345; Sept. 6; v. 290; p. 202.
Canned chilli-con-carne and hot tamales. Walker Properties Associations. No. 146,522; Sept. 6; v. 290; p. 217.
Canned food products. Austin, Nichols & Company. No. 146,168; Sept. 16; v. 290; p. 197.
Canned fruit, berries, and vegetables. California Packing Corporation. No. 146,192; Sept. 6; v. 290; p. 198.
Canned fruits and pork and beans and fruit preserves. California Food Specialties Co. No. 146,436; Sept. 6; v. 290; p. 208.
Canned fruits and salmon. M. Schuckl. No. 146,353; Sept. 6; v. 290; p. 203.
Canned fruits and vegetables. Thomas-Body Company. No. 146,377; Sept. 6; v. 290; p. 203.
Canned goods, catsup, pickles, &c. C. I. Cook. No. 146,446; Sept. 6; v. 290; p. 209.
Canned tomatoes and apricots. Calima Canning Company. No. 146,437; Sept. 6; v. 290; p. 208.
Canned vegetables. Inderrieden Canning Co. No. 146,486; Sept. 6; v. 290; p. 213.
Canning machinery. O. H. Hansen. No. 146,476; Sept. 6; v. 290; p. 212.
Capsules. Non-narcotic. Pacsules Laboratories. No. 146,319; Sept. 6; v. 290; p. 202.
Cards, Playing. United States Playing Card Company. No. 146,518; Sept. 6; v. 290; p. 217.
Carpets and rugs, Wilton. Hardwick & Magee Company. Nos. 146,477–8; Sept. 6; v. 290; p. 212.
Cements, Refractory and high-temperature. Adams & Jewell. No. 146,417; Sept. 6; v. 290; p. 205.
Centrifugal machines. Sharples Company. No. 146,505; Sept. 6; v. 290; p. 215.
Chains and wheels. Never-Skid Manufacturing Co. No. 146,545; Sept. 6; v. 290; p. 220.
Checks, Bank-. Behm and Poole. No. 146,340; Sept. 6; v. 290; p. 202.
Cheese. J. C. Rudolph & Company. No. 146,346; Sept. 6; v. 290; p. 203.
Chemical carbon-removers. Patterson-Sargent Company. No. 146,324; Sept. 6; v. 290; p. 202.
Chemical used in the manufacture of rubber. E. M. & F. Waldo. No. 146,398; Sept. 6; v. 290; p. 204.
Chocolate, cocoa powder and butter. Page & Shaw. No. 146,320; Sept. 6; v. 290; p. 202.
Cigars. H. N. Heunser & Son. No. 146,248; Sept. 6; v. 290; p. 200.
Cigars. J. C. Newman. No. 146,307; Sept. 6; v. 290; p. 201.
Cigars. Pan-American Cigar Manufacturing Co. No. 146,321; Sept. 6; v. 290; p. 202.
Cleaners, Vacuum-. United Electric Company. No. 146,383; Sept. 6; v. 290; p. 204.
Clocks and watches. Buser and Company. No. 146,189; Sept. 6; v. 290; p. 198.
Clothing, Articles of. Wm. Filene's Sons Company. No. 146,223; Sept. 6; v. 290; p. 199.
Clothing, Articles of. Liberty Manufacturing Co. No. 146,281; Sept. 6; v. 290; p. 201.
Cocoa. C. J. Van Houten & Zoon. No. 146,390; Sept. 6; v. 290; p. 204.
Coffee. Coffee Dan's Inc. No. 146,200; Sept. 6; v. 290; p. 198.
Coffee. Kelly Brothers. No. 146,269; Sept. 6; v. 290; p. 200.
Coffee. D. C. Winebrenner & Son. No. 146,409; Sept. 6; v. 290; p. 204.
Coffee, tea, and spices. Wabash Baking Powder Company. No. 146,393; Sept. 6; v. 290; p. 204.
Composition for sealing gaskets, &c. Motor Gasket Seal Co. No. 146,542; Sept. 6; v. 290; p. 219.
Connecting-rod aliners. J. Dee. No. 146,209; Sept. 6; v. 290; p. 198.
Container. F. Person. No. 146,549; Sept. 6; v. 290; p. 220.
Cooking and shortening compound. A. Cohen. No. 146,201; Sept. 6; v. 290; p. 198.
Corn and popcorn products, &c. National Sales Company. No. 146,543; Sept. 6; v. 290; p. 220.
Corsets. I. Newman & Sons. No. 146,546; Sept. 6; v. 290; p. 220.
Cotton and cotton and silk mixtures in the piece. Everett, Heaney & Company. No. 146,218; Sept. 6; v. 290; p. 199.
Cotton gins and presses, &c. Continental Gin Co. No. 146,204; Sept. 6; v. 290; p. 198.
Cotton piece goods. Amoskeag Manufacturing Company. No. 146,424; Sept. 6; v. 290; p. 206.
Cotton piece goods. Marshall Field & Company. No. 146,221; Sept. 6; v. 290; p. 199.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 146,309; Sept. 6; v. 290; p. 201.
Cough-syrup, witch-hazel, camphorated oil, pure glycerin. Blackstone Manufacturing Co. No. 146,178; Sept. 6; v. 290; p. 197.
Crash, Linen. Wyman, Partridge & Co. No. 146,410; Sept. 6; v. 290; p. 204.
Crayon, Marking-. G. F. Soper. No. 146,511; Sept. 6; v. 290; p. 216.
Cultivators, Hand-. American Fork and Hoe Company. No. 146,160; Sept. 6; v. 290; p. 197.
Dates. Van Dyk and Reeves. No. 146,389; Sept. 6; v. 290; p. 204.
Denims in the piece. Durham Cotton Mfg. Co. No. 146,456; Sept. 6; v. 290; p. 210.
Dish-washing machines and parts thereof, Electric. Mermaid Dish Washer Company. No. 146,296; Sept. 6; v. 290; p. 201.
Doll furniture. A. S. Payne, Inc. No. 146,326; Sept. 6; v. 290; p. 202.
Drawing and surveying instruments, &c. David White Co. No. 146,405; Sept. 6; v. 290; p. 204.

Duplicating-rolls. Beck Duplicator Company. No. 146,175; Sept. 6; v. 290; p. 197.
Dyes. Tar Chang Sen & Co. No. 146,375; Sept. 6; v. 290; p. 203.
Eggs. Poultry Producers of Central California. Nos. 146,334–5; Sept. 6; v. 290; p. 202.
Electric heating appliances. A. Buck & Co. Calora. No. 146,187; Sept. 6; v. 290; p. 198.
Electric-light-diffusing fixtures. Luminous Specialty Company. No. 146,285; Sept. 6; v. 290; p. 201.
Electrical devices. Bake-Rite Oven Manufacturing Company. No. 146,170; Sept. 6; v. 290; p. 197.
Engines, Internal-combustion. Gray & Prior Machine Company. No. 146,470; Sept. 6; v. 290; p. 211.
Engines, Internal-combustion. Weidely Motors Company. No. 146,403; Sept. 6; v. 290; p. 204.
Essences, fruit oils, and syrups for beverages. Chemical Works Flora. No. 146,194; Sept. 6; v. 290; p. 198.
Fabric imitating silk, draperies, table-covers, &c., Fiber. A. Theo. Abbott & Co. No. 146,415; Sept. 6; v. 290; p. 205.
Fabrics, Oils used in treating textile. Naamlooze Vennootschap Oliefabricken Insulinde. No. 146,302; Sept. 6; v. 290; p. 201.
Feed for horses, mules, hogs, and hens. Pease & Dwyer Co. No. 146,328; Sept. 6; v. 290; p. 202.
Feed, Grain. Pease & Dwyer Co. No. 146,329; Sept. 6; v. 290; p. 202.
Feed, Poultry and dairy. Northrup, King, & Co. No. 146,314; Sept. 6; v. 290; p. 202.
Fertilizer. American Agricultural Chemical Company. No. 146,419; Sept. 6; v. 290; p. 205.
Filing appliances. McCaskey Register Company. No. 146,539; Sept. 6; v. 290; p. 219.
Filing-containers, mailing-envelops, letter-files. Alvah Bushnell Company. No. 146,190; Sept. 6; v. 290; p. 198.
Finger-rings. Traub Manufacturing Company. No. 146,380; Sept. 6; v. 290; p. 204.
Flashlight-cases and electric batteries. United States Electric Manufacturing Corporation. No. 146,384; Sept. 6; v. 290; p. 204.
Flour, Ready-mixed cake-. Jiffo Co. No. 146,267; Sept. 6; v. 290; p. 200.
Flour, Self-rising wheat-. J. C. Lysle Milling Company. No. 146,287; Sept. 6; v. 290; p. 201.
Flour, Wheat-. M. Ainsa & Sons. No. 146,155; Sept. 6; v. 290; p. 197.
Flour, Wheat-. Colorado Milling & Elevator Company. No. 146,203; Sept. 6; v. 290; p. 198.
Flour, Wheat-. Fisher Flouring Mills Company. No. 146,225; Sept. 6; v. 290; p. 199.
Flour, Wheat-. Ismert-Hincke Milling Company. No. 146,262; Sept. 6; v. 290; p. 200.
Flour, Wheat-. Pillsbury Flour Mills Company. No. 146,550; Sept. 6; v. 290; p. 220.
Flour, Wheat-. Samuell Bell & Sons. No. 146,176; Sept. 6; v. 290; p. 197.
Flours, Self-rising wheat and wheat. Midland Flour Milling Co. No. 146,298; Sept. 6; v. 290; p. 201.
Food for poultry, chickens, horses, and mules. Pease & Dwyer Co. No. 146,327; Sept. 6; v. 290; p. 202.
Food, Stock and poultry. J. J. Schreiber. No. 146,351; Sept. 6; v. 290; p. 203.
Foods. Great Atlantic and Pacific Tea Company. No. 146,237; Sept. 6; v. 290; p. 199.
Foods. New York Store Mercantile Company. No. 146,310; Sept. 6; v. 290; p. 201.
Frogs, guard-rail clamps, rail-braces, ties. Weir Frog Company. No. 146,402; Sept. 6; v. 290; p. 204.
Fruits and fresh tomatoes. Fresh citrus. S. J. Sligh. No. 146,365; Sept. 6; v. 290; p. 203.
Fruits, Fresh citrus. Chase & Co. Nos. 146,440–1; Sept. 6; v. 290; p. 208.
Furnaces and parts thereof, and associated devices, High-frequency electric. Ajax Electrothermic Corporation. No. 146,157; Sept. 6; v. 290; p. 197.
Furniture, automobile, and floor polish, floor-wax. Pensco Products Co. No. 146,330; Sept. 6; v. 290; p. 202.
Game, Card. D. M. Gottfried. No. 146,468; Sept. 6; v. 290; p. 211.
Gargle, Throat-. J. Gentee. No. 146,464; Sept. 6; v. 290; p. 211.
Gasolene-engines. Turner & Moore Mfg. Co. No. 146,381; Sept. 6; v. 290; p. 204.
Gasolene, kerosene, &c. Service Oil Refining Company. No. 146,501; Sept. 6; v. 290; p. 215.
Gear-rings, Fly-wheel. Kirk-Barbe Company. No. 146,494; Sept. 6; v. 290; p. 214.
Ginghams, zephyrs, and cheviots in the piece. William B. Moore Dry Goods Company. No. 146,300; Sept. 6; v. 290; p. 201.
Gravel. Southern Paving Gravel Company. No. 146,512; Sept. 6; v. 290; p. 216.
Gum, Chewing-. M. S. Copeland. No. 146,205; Sept. 6; v. 290; p. 198.
Hair and scalp preparation. J. M. Slavin. No. 146,508; Sept. 6; v. 290; p. 216.
Hair and scalp preparations. V. B. Mullins. No. 146,301; Sept. 6; v. 290; p. 201.
Hair-dressing. L. Rahman. No. 146,286; Sept. 6; v. 290; p. 201.
Hair-nets. S. Glemby's Sons Co. No. 146,467; Sept. 6; v. 290; p. 211.
Hair-nets. G. Klemperer. Nos. 146,495–6; Sept. 6; v. 290; p. 214.
Hair-nets. F. E. Low. No. 146,283; Sept. 6; v. 290; p. 201.
Hair-nets and veils. National Trading Company. No. 146,544; Sept. 6; v. 290; p. 220.
Hair-nets. North American Ginseng Co. No. 146,313; Sept. 6; v. 290; p. 201.
Hair-nets. Samstag & Hilder Bros. No. 146,350; Sept. 6; v. 290; p. 203.
Hair-tonic perfume, rouge, &c. H. W. Brisman. No. 146,186; Sept. 6; v. 290; p. 198.
Hair-tonics. Yvette Co. No. 146,412; Sept. 6; v. 290; p. 204.
Handkerchiefs. Adams-Bach Hdkf. Mfg. Co. No. 146,154; Sept. 6; v. 290; p. 197.
Handkerchiefs. Cluett, Peabody & Co. No. 146,199; Sept. 6; v. 290; p. 198.
Hardware, Certain. Banister & Pollard. No. 146,428; Sept. 6; v. 290; p. 207.
Harmonicas or mouth-organs. Sherman, Clay & Co. No. 146,358; Sept. 6; v. 290; p. 203.
Hay, Compressed. Galbraith & Co. No. 146,462; Sept. 6; v. 290; p. 210.
Heaters. Kelsey Heating Company. Nos. 146,491–2; Sept. 6; v. 290; p. 214.
Heating system and certain parts thereof, Vapor-Vacuum Heating Co. No. 146,521; Sept. 6; v. 290; p. 217.
Heels for boots and shoes. J. D. Prince. No. 146,552; Sept. 6; v. 290; p. 220.
Henriettas, black dress goods, and cashmeres. W. W. Roycroft & Co. No. 146,348; Sept. 6; v. 290; p. 203.
Hoops, Wire and steel or iron. John Dunn, Son & Co. No. 146,214; Sept. 6; v. 290; p. 199.
Hosiery and underwear for men and women. Realsilk Fabrics Corporation. No. 146,499; Sept. 6; v. 290; p. 215.
Hosiery, neckties, &c. Beal-Burrow Dry Goods Co. No. 146,431; Sept. 6; v. 290; p. 207.
Hypodermic needles, Flexible. Dr. L. O. Green. No. 146,472; Sept. 6; v. 290; p. 211.
Ice-cream. Huber Ice Cream Company. No. 146,485; Sept. 6; v. 290; p. 213.
Inks, Printing-. Jeanecke-Ault Company. No. 146,266; Sept. 6; v. 290; p. 200.
Insect-exterminators, Chemical. International Chemical Company. No. 146,261; Sept. 6; v. 290; p. 200.
Insects, flies, &c., Devices for killing and disabling. United States Wire Mat Co. No. 146,519; Sept. 6; v. 290; p. 217.
Insecticides. Richter Bros. No. 146,341; Sept. 6; v. 290; p. 202.
Instruments of precision. Barr & Stroud. No. 146,174; Sept. 6; v. 290; p. 197.
Iron chaplets, Gray-. S. Cheney & Son. No. 146,443; Sept. 6; v. 290; p. 208.
Kitchen and cooking utensils, Metallic. Manufacture Metallurgique de Tournus. No. 146,291; Sept. 6; v. 290; p. 201.
Knitting-machine sinkers. H. Stuebner. No. 146,373; Sept. 6; v. 290; p. 203.
Lamps, Electric. Tulite Auto Bulb Company. No. 146,517; Sept. 6; v. 290; p. 217.
Lenses for motion-picture projection and similar purposes. Kollmorgen Optical Corporation. Nos. 146,276–7; Sept. 6; v. 290; p. 200
Liniment for rheumatism. J. A. Boon. No. 146,180; Sept. 6; v. 290; p. 198.
Lock-nuts. Flannery Bolt Company. No. 146,226; Sept. 6; v. 290; p. 199.
Lumber. Arkansas Soft Pine Bureau. Nos. 146,425–6; Sept. 6; v. 290; p. 206.
Machinery and tools and parts thereof. Ingersoll-Rand Company. No. 146,488; Sept. 6; v. 290; p. 213.
Machinery and tools, Certain. Oil Well Supply Company. No. 146,317; Sept. 6; v. 290; p. 202.
Mail-order sheets. Brentano's. No. 146,184; Sept. 6; v. 290; p. 198.
Meal, Cotton-seed. Industrial Cotton Oil Properties. No. 146,259; Sept. 6; v. 290; p. 200.
Medicinal preparation. Genuine Haarlem Oil Mfg. Co. No. 146,465; Sept. 6; v. 290; p. 211.
Medicinal preparation. J. Robert. No. 146,342; Sept. 6; v. 290; p. 202.
Medicinal preparation for piles, hemorrhages of the bowels, boils, &c. D. Girard. No. 146,285; Sept. 6; v. 290; p. 199.
Medicinal preparation for tuberculosis, Liquid. H. W. Norman. No. 146,312; Sept. 6; v. 290; p. 201.
Medicine for coughs, bronchitis, &c. J. H. Lee. No. 146,279; Sept. 6; v. 290; p. 200.
Medicine for coughs, catarrh, &c. E. Dahlin. No. 146,208; Sept. 6; v. 290; p. 198.
Medicine for epilepsy and nervous troubles. M. Nicholson. No. 146,311; Sept. 6; v. 290; p. 201.
Medicine for rheumatism. C. Eserakis. No. 146,219; Sept. 6; v. 290; p. 199.
Medicine for the treatment of lungs. Z. Hester. No. 146,247; Sept. 6; v. 290; p. 200.
Metal-leaf. H. Marui & Co. No. 146,293; Sept. 6; v. 290; p. 201.
Metal working, boring, drilling, and milling machines. Giddings & Lewis Machine Tool Company. No. 146,233; Sept. 6; v. 290; p. 199.

Metals, Certain non-ferrous. J. Briggs & Sons Co. No. 146,185; Sept. 6; v. 290; p. 198.
Middy-blouses. Z. & S. Middy Co. No. 146,297; Sept. 6; v. 290; p. 201.
Minnows, Artificial. James Heddon's Sons. No. 146,246; Sept. 6; v. 290; p. 200.
Motors, Truck, &c., internal-combustion. Wisconsin Motor Manufacturing Co. No. 146,526; Sept. 6; v. 290; p. 218.
Mouth-wash. W. A. Smith. No. 146,368; Sept. 6; v. 290; p. 203.
Mouth-wash, Antiseptic. Knight and Co. No. 146,275; Sept. 6; v. 290; p. 200.
Mouth-wash, tooth powder and paste. W. E. Filteau. No. 146,224; Sept. 6; v. 290; p. 199.
Musical instruments. Higley and Mortensen. No. 146,250; Sept. 6; v. 290; p. 200.
Musical instruments and strings and bows therefor, Stringed. H. T. Heberlein, Jr. No. 146,480; Sept. 6; v. 290; p. 212.
Muslins in the piece. Marshall Field & Company. No. 146,222; Sept. 6; v. 290; p. 199.
Neckties. Grip Bow Tie Co. No. 146,473; Sept. 6; v. 290; p. 211.
Neckties and mufflers. T. E. Greaney. No. 146,471; Sept. 6; v. 290; p. 211.
Needles and machine knitting-needles. Sewing-machine. C. B. Barker & Co. No. 146,171; Sept. 6; v. 290; p. 197.
Oil, Cocoanut-. Procter and Gamble Company. No. 146,337; Sept. 6; v. 290; p. 202.
Oil for treatment of road-surfaces. Pure Oil Company. No. 146,338; Sept. 6; v. 290; p. 202.
Oil, Mineral. W. N. Edenfield. No. 146,216; Sept. 6; v. 290; p. 199.
Oil, Salad-. Italy Commercial Co. No. 146,263; Sept. 6; v. 290; p. 200.
Oil substitute, Linseed-. Atlantic Refining Company. No. 146,167; Sept. 6; v. 290; p. 197.
Oils and flavoring extracts, Olive and flavoring. S. P. Hite Company. No. 146,482; Sept. 6; v. 290; p. 212.
Oils and gasolene, Lubricating-. Associated Oil Company. No. 146,166; Sept. 6; v. 290; p. 197.
Oils and greases, Lubricating. American Stationery Mfg. Co. No. 146,421; Sept. 6; v. 290; p. 206.
Oils, Core-. E. F. Houghton & Co. No. 146,484; Sept. 6; v. 290; p. 213.
Oils, Lubricating-. E. F. Houghton & Co. Nos. 146,254–5; Sept. 6; v. 290; p. 200.
Oils, Lubricating-. Marshall Oil Company of Iowa. No. 146,537; Sept. 6; v. 290; p. 219.
Oils, Lubricating-. Sinclair Refining Company. No. 146,362; Sept. 6; v. 290; p. 203.
Oils, Metal-cutting. E. F. Houghton & Co. No. 146,256; Sept. 6; v. 290; p. 200.
Oils, Petroleum lubricating-. Stoll Oil Refining Co. No. 146,372; Sept. 6; v. 290; p. 203.
Ointment for the treatment of piles. E. M. Gebhardt. No. 146,231; Sept. 6; v. 290; p. 199.
Oleomargarin. Hammond Standish & Co. No. 146,475; Sept. 6; v. 290; p. 211.
Oleomargarin. Harrow-Taylor Butter Co. No. 146,245; Sept. 6; v. 290; p. 200.
Oleomargarin. Nut Grove Butter Company. Nos. 146,315–16; Sept. 6; v. 290; p. 202.
Oleomargarin. Vermont Butterine Co. Inc. No. 146,392; Sept. 6; v. 290; p. 204.
Lenses, Ophthalmic. Buffalo Lens Mfg. Co. No. 146,188; Sept. 6; v. 290; p. 198.
Overalls, overall coats and suits. Spokane Dry Goods Company. No. 146,513; Sept. 6; v. 290; p. 216.
Oxygen, acetylene, and nitrogen. Air Reduction Company, Inc. No. 146,156; Sept. 6; v. 290; p. 197.
Paint. D. C. Smith. No. 146,367; Sept. 6; v. 290; p. 203.
Paint and varnish remover. J. Nacol. No. 146,303; Sept. 6; v. 290; p. 201.
Paint, Barn-. Wadsworth-Howland Company. No. 146,395; Sept. 6; v. 290; p. 204.
Paint for flat wall-finish, Oil-. Devoe & Raynolds Co. No. 146,211; Sept. 6; v. 290; p. 198.
Paint for interior finish. Wadsworth, Howland & Co. No. 146,394; Sept. 6; v. 290; p. 204.
Paint-pigments. Binney & Smith Company. No. 146,177; Sept. 6; v. 290; p. 197.
Paint, varnish, &c., Mixed. Wadsworth-Howland Co. No. 146,396; Sept. 6; v. 290; p. 204.
Paints. W. E. Greene. No. 146,240; Sept. 6; v. 290; p. 199.
Paints. Indiana Indestructible Paint Co. No. 146,487; Sept. 6; v. 290; p. 213.
Paints. Patek Brothers. No. 146,547; Sept. 6; v. 290; p. 220.
Paints, Certain named. Simmons Hardware Company. No. 146,506; Sept. 6; v. 290; p. 215.
Paints, Ready-mixed. United States Gutta Percha Paint Company. No. 146,385; Sept. 6; v. 290; p. 204.
Paints, varnishes, paint enamels. Gardiner-McInnes Co. No. 146,463; Sept. 6; v. 290; p. 211.
Paper, Colored writing-. J. W. Butler Paper Company. No. 146,191; Sept. 6; v. 290; p. 198.
Paper for writing, typewriting, &c. Groveton Paper Company. No. 146,241; Sept. 6; v. 290; p. 199.
Paper, Ledger-. American Writing Paper Company. No. 146,423; Sept. 6; v. 290; p. 206.
Paper, Toilet-. A. P. W. Paper Co. No. 146,414; Sept. 6; v. 290; p. 205.
Paper towels and napkins. Scott Paper Company. No. 146,355; Sept. 6; v. 290; p. 203.
Paper, Wall-. H. W. Webster. No. 146,401; Sept. 6; v. 290; p. 204.
Paper, Wrapping-. Whitaker Paper Company. No. 146,404; Sept. 6; v. 290; p. 204.
Papers and cloths, drawing and engineering instruments, Blue and brown print. C. H. Robbins. No. 146,344; Sept. 6; v. 290; p. 202.
Papers, Filter, paraffin-wax, and toilet. Citizens' Wholesale Supply Company. No. 146,196; Sept. 6; v. 290; p. 198.
Papers, Printing and writing. Central Ohio Paper Co. No. 146,438; Sept. 6; v. 290; p. 208.
Papers, Waterproof. J. J. White Paper Co. No. 146,406; Sept. 6; v. 290; p. 204.
Peanut-butter. Short, Philips & Healy. No. 146,360; Sept. 6; v. 290; p. 203.
Pearls, Imitation or artificial. F. C. Osmers. No. 146,318; Sept. 6; v. 290; p. 202.
Perfumery, facial paints, &c. Societe Anonyme Parfumerie Savonnerie Gilot. No. 146,369; Sept. 6; v. 290; p. 203.
Perfumes, rouges, &c. Société Anonyme De Lusy. No. 146,510; Sept. 6; v. 290; p. 216.
Perfumes, toilet waters, face-powders, &c. Parfumerie Houbigant. Nos. 146,322–3; Sept. 6; v. 290; p. 202.
Periodical, Monthly. National Bank of Commerce in New York. No. 146,305; Sept. 6; v. 290; p. 201.
Petticoats, bloomers, corset-covers, &c., Ladies'. Dorfman & Korman. No. 146,212; Sept. 6; v. 290; p. 199.
Phonographs. Acme Cabinet Company. No. 146,416; Sept. 6; v. 290; p. 205.
Phonographs. Cirola Phonograph Corporation. No. 146,195; Sept. 6; v. 290; p. 198.
Phonographs. Federal Electric Company. No. 146,460; Sept. 6; v. 290; p. 210.
Phonographs. General Manufacturing Corporation. No. 146,232; Sept. 6; v. 290; p. 199.
Pianos and player-pianos. Milton Piano Company. No. 146,540; Sept. 6; v. 290; p. 219.
Picture films, Motion-. American Indian Film Co. No. 146,162; Sept. 6; v. 290; p. 197.
Pictures. D. Davidson. No. 146,448; Sept. 6; v. 290; p. 209.
Pigment having a combination of purposes. E. M. & F. Waldo. No. 146,397; Sept. 6; v. 290; p. 204.
Pigment having a combination of purposes. E. M. & F. Waldo. No. 146,399; Sept. 6; v. 290; p. 204.
Pills for constipation and torpid liver. H. C. Jarvis. No. 146,490; Sept. 6; v. 290; p. 214.
Pipe-couplings. Titeflex Metal Hose Corporation. No. 146,379; Sept. 6; v. 290; p. 203.
Pomegranates, Fresh and preserved. Native Son Orchards Co. No. 146,304; Sept. 6; v. 290; p. 201.
Powder and deodorant, Foot. F. W. Clark. No. 146,197; Sept. 6; v. 290; p. 198.
Powder-puffs. J. J. Cosin. No. 146,447; Sept. 6; v. 290; p. 209.
Powders, toilet extract, toilet water, &c., Talcum and face. A. P. Babcock Company. No. 146,169; Sept. 6; v. 290; p. 197.
Preparation for relief of coughs, colds, &c. P. E. Le Sieur. No. 146,280; Sept. 6; v. 290; p. 201.
Preparation for removing hair. M. H. Pharmacal Co. No. 146,331; Sept. 6; v. 290; p. 202.
Preparation for the elimination of worms in cattle. J. D. Thomas. No. 146,378; Sept. 6; v. 290; p. 203.
Preparation for treatment of the gums. Chemical Products Co. No. 146,442; Sept. 6; v. 290; p. 208.
Preparation, Liquid. Baker Chemical Company. No. 146,427; Sept. 6; v. 290; p. 207.
Printing-machines and parts thereof. American Multigraph Sales Company. No. 146,163; Sept. 6; v. 290; p. 197.
Raincoats. Kinzie Rubber & Manufacturing Co. No. 146,493; Sept. 6; v. 290; p. 214.
Razor-stroppers, Mechanical. Howard Specialties Company. No. 146,257; Sept. 6; v. 290; p. 200.
Refrigerating and ice-making machines. Brunswick Refrigerating Company. No. 146,435; Sept. 6; v. 290; p. 208.
Remedy for the scalp and hair. J. C. Kelley. No. 146,270; Sept. 6; v. 290; p. 200.
Road-graders. Stockland Road Machinery Company. No. 146,515; Sept. 6; v. 290; p. 216.
Rope, cord, twine. American Manufacturing Company. No. 146,420; Sept. 6; v. 290; p. 205.
Rubber baby-pants. J. J. Beyerle Mfg. Co. Nos. 146,433–4; Sept. 6; v. 290; pp. 207–8.
Rubber boots and shoes, overshoes, &c. Hood Rubber Company. No. 146,253; Sept. 6; v. 290; p. 200.
Rubber heels. Gulick and Snyder. No. 146,474; Sept. 6; v. 290; p. 212.
Rubber rollers for all inking-presses. Progress Roller Company. No. 146,336; Sept. 6; v. 290; p. 202.
Rules. Master Rule Mfg. Co. No. 146,538; Sept. 6; v. 290; p. 219.
Salt. Colonial Salt Company. No. 146,202; Sept. 6; v. 290; p. 198.
Salve. Mrs. A. Kibby. No. 146,272; Sept. 6; v. 290; p. 200.

Salve or ointment for external uses. A. H. Ryan. No. 146,347; Sept. 6; v. 290; p. 303.
Sand and gravel. Wolf River Sand Co. No. 146,527; Sept. 6; v. 290; p. 218.
Sanitary napkins. Hospital Specialty Company. No. 146,483; Sept. 6; v. 290; p. 213.
Screw-threading tools. Union Twist Drill Company. No. 146,387; Sept. 6; v. 290; p. 204.
Shampoo, Henna. Philo Hay Company. No. 146,332; Sept. 6; v. 290; p. 202.
Shampoo preparation. Seligman and Latz. No. 146,500; Sept. 6; v. 290; p. 215.
Shears and scissors. Clayton Mfg. Co. No. 146,198; Sept. 6; v. 290; p. 198.
Sheep and cattle. W. S. Martin. No. 146,292; Sept. 6; v. 290; p. 201.
Shirtings in the piece, Silk. M. Bornstein & Sons. No. 146,181; Sept. 6; v. 290; p. 198.
Shirts, Men's flannel, work, and dress. Bob & Baskind. No. 146,179; Sept. 6; v. 290; p. 197.
Shoe-dressing. Whittemore Brothers, Corporation. No. 146,524; Sept. 6; v. 290; p. 218.
Shoes. W. Steinhardt. No. 146,514; Sept. 6; v. 290; p. 216.
Shoes. United Drug Company. No. 146,382; Sept. 6; v. 290; p. 204.
Shoes and slippers. Wichert & Gardiner. No. 146,525; Sept. 6; v. 290; p. 218.
Silk and satin goods in the piece. William Skinner & Sons. No. 146,363; Sept. 6; v. 290; p. 203.
Silk and satin goods in the piece. William Skinner & Sons. No. 146,364; Sept. 6; v. 290; p. 203.
Silk, cotton, &c., piece goods. Realskin Fabrics Corporation. No. 146,498; Sept. 6; v. 290; p. 215.
Silk piece goods. H. R. Mallinson & Co. Nos. 146,288–90; Sept. 6; v. 290; p. 201.
Silk piece goods, Broad-. Duplan Silk Corporation. No. 146,215; Sept. 6; v. 290; p. 199.
Silk, woolen, &c., piece goods. Haas Brothers Fabrics Corporation. No. 146,243; Sept. 6; v. 290; p. 199.
Silver-plated hollow ware. Van Bergh Silver Plate Co. No. 146,520; Sept. 6; v. 290; p. 217.
Silverware. Marshall Field & Company. No. 146,536; Sept. 6; v. 290; p. 219.
Skates. F. MacMillan. No. 146,534; Sept. 6; v. 290; p. 219.
Slag, Dense hard. Emanuel Slag Company. No. 146,458; Sept. 6; v. 290; p. 210.
Soaps, Foot-. Thomas Gill Soap Company. No. 146,466; Sept. 6; v. 290; p. 211.
Soda-ash. C. J. Bausinger. No. 146,430; Sept. 6; v. 290; p. 207.
Soldering, Metal-treating fluid for preparing work for. American Chemical Paint Company. No. 146,158; Sept. 6; v. 290; p. 197.
Spark-plugs. Fan Flame Spark Plug Co. No. 146,220; Sept. 6; v. 290; p. 199.
Spark-plugs. A. Samson. No. 146,349; Sept. 6; v. 290; p. 203.
Spark-timers for internal-combustion engines. Milwaukee Auto Engine & Supply Co. No. 146,541; Sept. 6; v. 290; p. 219.
Steel, Rustless. Ludlum Steel Company. No. 146,533; Sept. 6; v. 290; p. 218.
Steel, Tool and carbon tool. Ludlum Steel Company. No. 146,532; Sept. 6; v. 290; p. 218.
Stockings, Boys'. Imperial Hosiery Co. No. 146,258; Sept. 6; v. 290; p. 200.
Stroppers, Mechanical blade-. Tarantella Company. No. 146,376; Sept. 6; v. 290; p. 203.
Sugar substitute. Sharp & Dohme. No. 146,453; Sept. 6; v. 290; p. 209.
Suits, Children's play-. Sherman Overall Manufacturing Company. No. 146,359; Sept. 6; v. 290; p. 203.
Syrup, Corn-. American Hominy Company. No. 146,161; Sept. 6; v. 290; p. 197.
Tablets for colds, coughs, &c. W. H. Hill Co. No. 146,481; Sept. 6; v. 290; p. 212.
Tags, Shipping-. International Tag Company. No. 146,489; Sept. 6; v. 290; p. 213.
Talking-machines. Alexander Cabinet Company. No. 146,418; Sept. 6; v. 290; p. 205.
Talking-machines. H. Paulson. No. 146,325; Sept. 6; v. 290; p. 202.
Tanning materials. Harold M. McArthur & Co. No. 146,295; Sept. 6; v. 290; p. 201.
Tea. S. Zechnowitz. No. 146,413; Sept. 6; v. 290; p. 204.
Tires and tubes. Spreckles "Savage" Tire Company. No. 146,370; Sept. 6; v. 290; p. 203.
Tires, Rubber. Doss Rubber & Tube Co. No. 146,454; Sept. 6; v. 290; p. 210.
Tobacco and cigarettes. American Tobacco Company. No. 146,164; Sept. 6; v. 290; p. 197.
Toffee, English. W. J. Kelleher. No. 146,268; Sept. 6; v. 290; p. 200.
Toilet and pharmaceutical preparations. M. M. Gordon. No. 146,236; Sept. 6; v. 290; p. 199.
Toilet, medicinal, and pharmaceutical preparations. C. T. Duncan. No. 146,213; Sept. 6; v. 290; p. 199.
Toilet preparations. F. H. Green. No. 146,238; Sept. 6; v. 290; p. 199.
Toilet preparations. K. M. Lublin. No. 146,284; Sept. 6; v. 290; p. 201.
Tonic and appetiser for influenza, indigestion, &c. Vedo Medicine Company. No. 146,391; Sept. 6; v. 290; p. 204.
Tonic, Bitter stomach-. Wills Manufacturing Co. No. 146,408; Sept. 6; v. 290; p. 204.
Tonic for hogs and chickens. United Stock Remedies Co. No. 146,386; Sept. 6; v. 290; p. 204.
Tonic, Hair-. Harrods (North America) Ltd. No. 146,244; Sept. 6; v. 290; p. 199.
Tonic, laxative, and diuretic for stomach troubles. Scranton Distributing and Manufacturing Company. No. 146,356; Sept. 6; v. 290; p. 203.
Tonic, Reconstructive. Bosak Manufacturing Co. No. 146,182; Sept. 6; v. 290; p. 198.
Tonic, Reconstructive. Lax-Ton-All Co. No. 146,278; Sept. 6; v. 290; p. 200.
Tonic, Uterine. Sharp & Dohme. No. 146,503; Sept. 6; v. 290; p. 215.
Tools, Certain. G. F. Hickok. No. 146,249; Sept. 6; v. 290; p. 200.
Tooth-paste. L. B. Ellis, Jr. No. 146,217; Sept. 6; v. 290; p. 199.
Toy. W. R. Hollingshead Company. No. 146,252; Sept. 6; v. 290; p. 200.
Toy cars. S. Klein. No. 146,273; Sept. 6; v. 290; p. 200.
Toys for use with automatic pianos. Central Talking Machine Shop. No. 146,193; Sept. 6; v. 290; p. 198.
Toy vehicle. A. C. Klenke. No. 146,274; Sept. 6; v. 290; p. 200.
Tractors. Inland American Tractor Company. No. 146,260; Sept. 6; v. 290; p. 200.
Transmissions, Certain. American Display Company. No. 146,159; Sept. 6; v. 290; p. 197.
Tripoli flour. American Tripoli Company. No. 146,422; Sept. 6; v. 290; p. 206.
Trucks, Motor-. Dependable Truck and Tractor Company. No. 146,452; Sept. 6; v. 290; p. 209.
Turpentine. Sales Department, Gillican-Chipley Company. No. 146,234; Sept. 6; v. 290; p. 199.
Typewriter-ribbons and carbon-paper. Chas A. Foyer & Company. No. 146,229; Sept. 6; v. 290; p. 199.
Underwear. J. A. Firsching. No. 146,461; Sept. 6; v. 290; p. 210.
Valves. American Valve Co. No. 146,165; Sept. 6; v. 290; p. 197.
Valves for controlling steam and water. Warren Webster & Company. No. 146,400; Sept. 6; v. 290; p. 204.
Velocipedes. Platt-Rubin Company. No. 146,333; Sept. 6; v. 290; p. 202.
Veterinarian and poultry preparation and healing-powder. G. A. Cunning. No. 146,206; Sept. 6; v. 290; p. 198.
Veterinary medicine. Bernard & Begin. No. 146,432; Sept. 6; v. 290; p. 207.
Violins. Green Mountain Violin Corporation. No. 146,239; Sept. 6; v. 290; p. 199.
Wagons and skidders. Lindsey Wagon Co. No. 146,531; Sept. 6; v. 290; p. 218.
Waists. Goldberg & Rosenblatt. No. 146,469; Sept. 6; v. 290; p. 211.
Waists, dresses, &c. Elgin Waist Company. No. 146,457; Sept. 6; v. 290; p. 210.
Watchcases and parts thereof, watches, and watch-movements. R. A. Gsell. No. 146,242; Sept. 6; v. 290; p. 199.
Watches. Master Jewelers, Inc. No. 146,294; Sept. 6; v. 290; p. 201.
Wire rope. A. Leshen & Sons Rope Company. Nos. 146,529–30; Sept. 6; v. 290; p. 218.
Wire-screen-cloth, Woven-. Wickwire Spencer Steel Corporation. No. 146,407; Sept. 6; v. 290; p. 204.
Woodwork, table, and floor polish. Alex D. Shaw & Co. No. 146,357; Sept. 6; v. 290; p. 203.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 146,227–8; Sept. 6; v. 290; p. 199.
Worsted and woolen textile fabrics in the piece. Holden-Leonard Company. No. 146,251; Sept. 6; v. 290; p. 200.
Worsteds and woolens in the piece. Montrose Worsted Company. No. 146,299; Sept. 6; v. 290; p. 201.
Wreaths, Metal frames for. C. Smith. No. 146,509; Sept. 6; v. 290; p. 216.
Xylophones. J. C. Deagan, Inc. Nos. 146,449–51; Sept. 6; v. 290; p. 209.

ALPHABETICAL LIST OF LABELS.

"Apple Brand Shortening." (For a Compound of Choice Cotton-Seed Oil and Vegetable Stearin for Cooking Purposes.) International Refining Company. No. 23,365; Sept. 6; v. 290; p. 223.
"Arrow." (For a Cereal Malt Beverage.) Globe Bottling & Sales Co. No. 23,359; Sept. 6; v. 290; p. 223.
"B. & J. R." (For Cigar-Boxes.) Strauss Bros. No. 23,406; Sept. 6; v. 290; p. 224.
"Bath Salts." (For Preparations for Perfuming and Softening Bath-Water.) Harriet Hubbard Ayer. No. 23,340; Sept. 6; v. 290; p. 223.
"Berg's Best." (For Malt Extracts.) Henning Wennersten Incorporated. No. 23,361; Sept. 6; v. 290; p. 223.
"Blom's Home Made Peur-Egg Mayonnaise." (For Mayonnaise.) B. Blom. No. 23,342; Sept. 6; v. 290; p. 223.
"Bonnie Belle." (For Hosiery.) Berks Knitting Company. No. 23,341; Sept. 6; v. 290; p. 223.
"Charlotte Fringe Net." (For Hair-Nets.) Gibbs & Co. Nos. 23,357–8; Sept. 6; v. 290; p. 223.
"Cupid's Haunt." (For Articles of Women's Apparel, Ladies' Waists or Blouses, Underwear, Hosiery, Neckwear, Sweaters, Corset, Gloves, and Dresses.) E. M. Evans. No. 23,353; Sept. 6; v. 290; p. 223.
"Dainty Bread." (For Waxed-Paper Bread-Wrappers Containing Bread.) Menasha Printing & Carton Company. No. 23,389; Sept. 6; v. 290; p. 224.
"E-Z Way." (For Container for Soap in Powder Form.) E. J. Watts. No. 23,413; Sept. 6; v. 290; p. 225.
"Extra Select Diamond Brand." (For Boxes of Grapefruit.) Bourk-Donaldson-Taylor Fruit Company. No. 23,343; Sept. 6; v. 290; p. 223.
"F C L." (For Labels Applied to Containers for a Mange and Dandruff Remedy.) R. D. Furnish. No. 23,355; Sept. 6; v. 290; p. 223.
"Fortune." (For Egg-Noodles.) Fortune Products Company. No. 23,354; Sept. 6; v. 290; p. 223.
"Gingham Girl." (For Candy.) Collins-Hencke Candy Co. No. 23,350; Sept. 6; v. 290; p. 223.
"Good Value." (For Toilet-Paper, Being Applied to the Packing Containing the Same.) May Department Stores Company. No. 23,370; Sept. 6; v. 290; p. 223.
"Grandma's Cake." (For Cake.) Lantz Bros. Baking Co. No. 23,368; Sept. 6; v. 290; p. 223.
"Green River." (For Soft Drinks.) Schoenhofen Company. No. 23,404; Sept. 6; v. 290; p. 224.
"Happy Home." (For Bread.) Memphis Bread Company. No. 23,374; Sept. 6; v. 290; p. 224.
"Hedrelef." (For Medicine Tablets for Headaches, Neuralgia, Colds, La Grippe, Aches, and Pains.) C. E. Kiesling. No. 23,366; Sept. 6; v. 290; p. 223.
"Home Run." (For Wrappers Inclosing or Containing Cigarettes.) Liggett & Myers Tobacco Company. No. 23,369; Sept. 6; v. 290; p. 223.
"Honey Krust." (For Bread.) Saniwax Paper Co. No. 23,403; Sept. 6; v. 290; p. 224.
"Honey Scotch." (For Candy.) J. N. Collins Company. No. 23,349; Sept. 6; v. 290; p. 223.
"Hotel Galves." (For Coffee.) Check-Neal Coffee Company. No. 23,348; Sept. 6; v. 290; p. 223.
"Jannetta." (For Hair-Nets.) M. Herzog. No. 23,362; Sept. 6; v. 290; p. 223.
"Johnston's Dentex." (For Bottles Containing a Tooth-Cleaner.) Creech Chemical Co. No. 23,351; Sept. 6; v. 290; p. 223.
"Kinnetta Velvet Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,382; Sept. 6; v. 290; p. 224.
"La Sebana." (For Cigars, Cigarettes, and Tobacco.) A. Worch. No. 23,412; Sept. 6; v. 290; p. 225.
"Light Acme a Healthful Beverage." (For Barrels, Containers, or Packages for Containing the Beverage.) California Brewing Association. No. 23,347; Sept. 6; v. 290; p. 223.
"Lotion de Fraises (Strawberry Lotion)." (For Invigorant for the Skin.) Harriet Hubbard Ayer. No. 23,339; Sept. 6; v. 290; p. 223.
"Luxuria." (For a Cosmetic Marvel Superior to Cold-Cream.) Harriet Hubbard Ayer. Nos. 23,335–6; Sept. 6; v. 290; p. 223.
"Made-Right." (For Brooms.) The Griffin Broom Company. No. 23,360; Sept. 6; v. 290; p. 223.
"Margie Cap Net." (For Hair-Nets.) Gibbs & Co. No. 23,356; Sept. 6; v. 290; p. 223.
"Metropolitan Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,388; Sept. 6; v. 290; p. 224.
"Miller's Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,380; Sept. 6; v. 290; p. 224.
"Mother's Pile Ointment." (For Medicinal Salve.) E. Burgoon. No. 23,345; Sept. 6; v. 290; p. 223.
"No Kil Scratch Feed." (For Bags of Poultry Feed.) Northrup, King & Co. No. 23,393; Sept. 6; v. 290; p. 224.
"Norbest." (For Sardines.) I. Burger, Inc. No. 23,344; Sept. 6; v. 290; p. 223.
"Odom's Quality Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,379; Sept. 6; v. 290; p. 224.
"Old Linen." (For Toilet-Paper, Being Applied to the Package Containing the Same.) May Department Stores Company. No. 23,371; Sept. 6; v. 290; p. 224.
"Our Favorite Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,376; Sept. 6; v. 290; p. 224.
"Peanut Kake." (For Candy.) W. J. Hirsch Company. No. 23,363; Sept. 6; v. 290; p. 223.
"Pep-Step." (For Cartons Containing Foot-Pads.) Pep-Step Corp. No. 23,397; Sept. 6; v. 290; p. 224.
"Pine Salve." (For Bottles Containing Soothing and Healing Salve.) Pine Salve Co. No. 23,398; Sept. 6; v. 290; p. 224.
"Potato." (For Bread.) Saniwax Paper Co. No. 23,402; Sept. 6; v. 290; p. 224.
"Potomac Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,378; Sept. 6; v. 290; p. 224.
"Princess Hair Pins." (For Boxes and Packages Containing Hairpins.) A. E. Oppenheimer & Bro. No. 23,396; Sept. 6; v. 290; p. 224.
"Pure Sugar Stick Candy." (For Stick-Candy.) National Paper Candy Company, The. No. 23,392; Sept. 6; v. 290; p. 224.
"Quaker Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,381; Sept. 6; v. 290; p. 224.
"R. M. Wash Boiler—Helps Make the Perfect Wash Day—Reliably Made by Hand." (For Washboilers.) Republic Metalware Company, The. No. 23,399; Sept. 6; v. 290; p. 224.
"Red Seal • Pure Wool Powder Puffs." (For Powder Puffs.) Morris, Mann & Reilly. No. 23,391; Sept. 6; v. 290; p. 224.
"Royal Scottish Golf Co., Limited Standard Ball." (For Cardboard Boxes Containing Golf-Balls.) Royal Scottish Golf Co. Limited. No. 23,401; Sept. 6; v. 290; p. 224.
"Sal-Ll-Lax." (For Medicines for Disorders of the Stomach, Liver, and Bowels.) J. Burns. No. 23,346; Sept. 6; v. 290; p. 223.
"Sanatory." (For Toilet-Paper, Being Applied to the Packages Containing the Same.) May Department Stores Company. No. 23,373; Sept. 6; v. 290; p. 224.
"Sanitary Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,387; Sept. 6; v. 290; p. 224.
"Silver Gloss Laundry Soap." (For Soap.) A. Hoefner & Sons. No. 23,364; Sept. 6; v. 290; p. 223.
"Snowdrift." (For Preparations for Increasing the Brilliancy and Removing the Yellowness from White or Gray Hair.) Harriet Hubbard Ayer. No. 23,338; Sept. 6; v. 290; p. 223.
"Telling's Ice Cream Belle Vernon." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,385; Sept. 6; v. 290; p. 224.
"Telling's Ice Cream Dolly Madison." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,383; Sept. 6; v. 290; p. 224.
"Telling's Ice Cream Martha Washington." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,384; Sept. 6; v. 290; p. 224.
"Telling's Vanilla Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,386; Sept. 6; v. 290; p. 224.
"Thacher Ice Cream." (For Cartons Containing Ice-Cream.) Menasha Printing and Carton Company. No. 23,375; Sept. 6; v. 290; p. 224.
"The Ayeristocrat (of All)." (For Finishing Vanishing Non-Greasy Cream.) Harriet Hubbard Ayer. No. 23,337; Sept. 6; v. 290; p. 223.
"The Bull Dog Grip." (For Leather Goods, Traveling-Bags, and Suitcases.) S. Kornberg. No. 23,367; Sept. 6; v. 290; p. 223.
"The Dont Worry Tire Patch." (For Patches Prepared for Use in Repairing Rubber Articles.) J. F. Duncan. No. 23,352; Sept. 6; v. 290; p. 223.
"The Winner." (For Toilet-Paper, Being Applied to the Package Containing the Same.) May Department Stores Company. No. 23,372; Sept. 6; v. 290; p. 224.
"Tipton-Berry's Guaranteed Mild Havana Pageant." (For Cigars.) The Tipton-Berry Cigar Co. No. 23,407; Sept. 6; v. 290; p. 225.
"Topaz Brand Malt Extract." (For Malt Extract.) E. Truthan. No. 23,410; Sept. 6; v. 290; p. 225.
"Trio Nuggets." (For Packages Containing Candy and Confectionery.) A. Olsen, Jr. No. 23,394; Sept. 6; v. 290; p. 224.

"True Shape." (For Hosiery.) True Shape Hosiery Co. Nos. 23,488–9; Sept. 6; v. 290; p. 226.
"United States Panama Canal Cigar." (For Cigars.) H. & G. Metzner. No. 23,390; Sept. 6; v. 290; p. 224.
"Virginia's Best Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,377; Sept. 6; v. 290; p. 224.
"Walnut Nuggets." (For Packages Containing Candy and Confectionery.) A. Olsen, Jr. No. 23,395; Sept. 6; v. 290; p. 224.
"Watkins Mulsified Cocoanut Oil Shampoo." (For Advertising Purposes for Watkins Mulsified Cocoanut-Oil Shampoo.) The R. L. Watkins Company. No. 23,411; Sept. 6; v. 290; pp. 225.
"White Label Brand." (For Pure Georgia Cane-Syrup.) W. H. Robinson. No. 23,400; Sept. 6; v. 290; p. 224.
"Wirthmore Buttermilk Baby-Chick Food." (For Buttermilk Baby-Chick Food.) St. Albans Grain Company. No. 23,405; Sept. 6; v. 290; p. 224.

ALPHABETICAL LIST OF PRINTS.

"Blue Back Blades." (For Advertising Purposes for Safety Razor Blades.) A. H. Bryant. No. 5,731; Sept. 6; v. 290; p. 226.
"Clar-O-Type." (For Material for Cleaning Typewriters.) L. Banov. No. 5,730; Sept. 6; v. 290; p. 226.
"Fairy Soap Pure White Floating." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) N. K. Fairbank Company. No. 5,736; Sept. 6; v. 290; p. 226.
"For Your Spring Cleaning Gold Dust." (For Advertising Purposes for Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,737; Sept. 6; v. 290; p. 226.
"4th of July." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co. No. 5,741; Sept. 6; v. 290; p. 226.
"Gee!—How good a pipe tastes with P. A. for the packing!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,749; Sept. 6; v. 290; p. 226.
"Get yours too; Put it up to a pipe—and P. A.!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,748; Sept. 6; v. 290; p. 226.
"Go on and get a pipe—and some P. A." (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,745; Sept. 6; v. 290; p. 226.
"Gold Dust Costs Little Goes Far." (For Advertising Purposes for Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,734; Sept. 6; v. 290; p. 226.
"It's Prince Albert's quality that rings so true to your taste!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,747; Sept. 6; v. 290; p. 226.
"It's the Taste That Tells." (For Advertising Purposes on Ice-Cream.) A. P. McLendon. No. 5,739; Sept. 6; v. 290; p. 226.
"Kelly Comfort Chairs." (For Advertising Purposes for Reclining-Chairs.) J. A. Kelly & Brother. No. 5,738; Sept. 6; v. 290; p. 226.
"Keep Clean with Gold Dust." (For Advertising Purposes for Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,735; Sept. 6; v. 290; p. 226.
"Labor Day." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co. No. 5,742; Sept. 6; v. 290; p. 226.
"Nyal Corn Remover for Mine." (For Advertising Purposes for a Corn Remedy.) Nyal Co. No. 5,740; Sept. 6; v. 290; p. 226.
"P. A. in a pipe? Say, now, you're setting real words to real music!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,746; Sept. 6; v. 290; p. 226.
"Pinks the Distinctive Straw." (For Advertising Purposes for Drinking-Straws.) Albert Pick & Company. No. 5,744; Sept. 6; v. 290; p. 226.
"Thanksgiving." (For Advertising Purposes for Bread.) Oswald Jaeger Baking Co. No. 5,743; Sept. 6; v. 290; p. 226.
"The Mineral Wax Twins Clean and Good." (For Advertising Purposes for Inked Ribbons and Carbon-Sheets for Duplicating or Transferring Impressions.) Columbia Carbon Company. No. 5,732; Sept. 6; v. 290; p. 226.
"The Symbol of Fairy Purity." (For Advertising Purposes for Fairy Soap for Toilet and Bath.) N. K. Fairbank Company. No. 5,733; Sept. 6; v. 290; p. 226.
"You bet you'll enjoy a jimmy pipe—if it's packed with Prince Albert!" (For Advertising Purposes for Smoking-Tobacco.) R. J. Reynolds Tobacco Company. No. 5,750; Sept. 6; v. 290; p. 226.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aluminium, alloys of aluminium and solders. Société Anonyme des Usines Giulini. No. 148,955; Sept. 6; v. 290; p. 191.
Amusement-vehicle. Jno. J. Stock. No. 144,301; Sept. 6; v. 290; p. 175.
Antiseptic mouth-wash. Dr. O. A. Miller Chemical Company, Incorporated. No. 148,293; Sept. 6; v. 290; p. 189.
Automobile furniture, &c., polishes. R. B. Wright. No. 150,086; Sept. 6; v. 290; p. 194.
Axles for pleasure-automobiles and automobile-trucks. Vulcan Motor Axle Company No. 140,622; Sept. 6; v. 290; p. 171.
Ball, Baseball-game. L. J. Rober. Nos. 144,352–3; Sept. 6; v. 290; p. 175.
Ball-cocks, Toilet tank and trough. Rex Supply Company. No. 150,335; Sept. 6; v. 290; p. 195.
Balls and golf-stick grips, Golf-. Marathon Tire and Rubber Company. No. 149,923; Sept. 6; v. 290; p. 194.
Balls, Golf-. United States Rubber Company. No. 133,806; Sept. 6; v. 290; p. 167.
Banjos, mandolins, &c. Albert Houdlett & Sons. No. 145,211; Sept. 6; v. 290; p. 177.
Baseballs. San Antonio Drug Co. No. 142,422; Sept. 6; v. 290; p. 172.
Belts, fusible boiler-plugs, bibs, &c., Detachable link. Fairbanks Co. No. 142,250; Sept. 6; v. 290; p. 172.
Biscuit and bakery products. Tru-Blu Biscuit Company. No. 144,485; Sept. 6; v. 290; p. 175.
Biscuit, cakes, and bakery products. Tru-Blu Biscuit Co. No. 144,487; Sept. 6; v. 290; p. 175.
Blankets, Wool and cotton. Chatham Manufacturing Company. No. 148,484; Sept. 6; v. 290; p. 190.
Bluing. Helwig & Leitch. No. 148,225; Sept. 6; v. 290; p. 188.
Boiler compound and also antifreezing compound. H. F. Hayden. No. 140,646; Sept. 6; v. 290; p. 171.
Boxes, Cigar-. State Leaf Tobacco Co. No. 142,536; Sept. 6; v. 290; p. 172.
Bread. L. J. Johnson. No. 134,368; Sept. 6; v. 290; p. 168.
Bread. Ward Baking Company. No. 140,511; Sept. 6; v. 290; p. 170.
Bromics, cold and grippe tablets, kidney and bladder pills, &c. Prontic Druggists, Inc. No. 147,047; Sept. 6; v. 290; p. 183.
Buildings, Steel. Blaw-Knox Company. No. 145,813; Sept. 6; v. 290; p. 178.
Butter, Creamery-. Meriden Creamery Company. No. 147,203; Sept. 6; v. 290; p. 183.
Candles. Loft Incorporated. No. 148,081; Sept. 6; v. 290; p. 187.
Candy. Curtiss Candy Co. No. 146,414; Sept. 6; v. 290; p. 180.
Candy. Manufacturing Company of America. No. 147,936; Sept. 6; v. 290; p. 187.
Cans and pails, Sheet-metal. Shalita Bros. No. 140,613; Sept. 6; v. 290; p. 171.
Casters. Bassick Company. No. 150,002; Sept. 6; v. 290; p. 194.
Casters. Bassick Company. No. 150,093; Sept. 6; v. 290; p. 194.
Cathartic or other medicinal cookie, cake, or cracker containing castor-oil, &c. Dry Oil Products, Ltd. No. 148,258; Sept. 6; v. 290; p. 188.
Cement, mortar, concrete, &c. Cement Gun Construction Company. No. 128,916; Sept. 6; v. 290; p. 166.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Cereal malt beverage syrup concentrate. Cereal Products Refining Company. No. 146,481; Sept. 6; v. 290; p. 180.
Cheese. Rosthlisberger & Co. Inc. Nos. 147,313–14; Sept. 6; v. 290; pp. 183–4.
Cleaner polish and restorative, Preservative. R. V. Lull. No. 147,483; Sept. 6; v. 290; p. 184.
Coffee. J. Aron & Company. No. 148,785; Sept. 6; v. 290; p. 190.
Coffee. Mohler Bros. Coffee Company. No. 148,501; Sept. 6; v. 290; p. 190.
Coffee, Roasted. Levin Store Co. No. 145,023; Sept. 6; v. 290; p. 176.
Compound for treating the nasal cavities and throat. J. R. Brierley. No. 128,294; Sept. 6; v. 290; p. 166.
Construction materials. Raymond Granite Company. No. 141,806; Sept. 6; v. 290; p. 171.
Cooking utensils, Aluminum. Leyse Aluminum Company. No. 129,728; Sept. 6; v. 290; p. 166.
Cotton-duck paper-felts, oil-press cloth, cider-press cloth, &c. Wm. E. Hooper & Sons Co. No. 147,724; Sept. 6; v. 292; p. 186.
Cotton fabrics in the piece. Howlett & Hockmeyer Co., Inc. No. 149,549; Sept. 6; v. 290; p. 193.
Cotton piece goods. Goldenberg Brothers & Company. No. 149,587; Sept. 6; v. 290; p. 193.
Cotton, silk, linen, and mixtures of cotton, silk, and linen. J. Miller Sons & Co. No. 149,540; Sept. 6; v. 290; p. 192.
Creams, face-powders, rouge, &c., Bleach, beauty, cold, and cleansing. H. W. Davis. No. 148,133; Sept. 6; v. 290; p. 188.
Creams, skin and tissue builder, &c., Cold, face, massage, and vanishing. Harriet Hubbard Ayer. No. 146,618; Sept. 6; v. 290; p. 181.
Davenports, sofas, &c., Upholstered. S. Karpen & Bros. No. 143,929; Sept. 6; v. 290; p. 174.
Desks. Commercial Furniture Company. No. 146,676; Sept. 6; v. 290; p. 182.
Dolls. Miller Rubber Company. No. 150,763; Sept. 6; v. 290; p. 195.
Dolls, Bisque-headed. George Borgfeldt & Co. No. 143,909; Sept. 6; v. 290; p. 174.
Doors, Screen. B. C. Rockwell. No. 150,255; Sept. 6; v. 290; p. 194.
Dressing for leather, rubber, and fabrics, &c. Hall Products Co. No. 148,440; Sept. 6; v. 290; p. 189.
Drill-rods and cold-drawn steel. Pittsburgh Tool Steel Wire Company. No. 149,243; Sept. 6; v. 290; p. 191.
Eggs. W. C. Will. No. 147,881; Sept. 6; v. 290; p. 184.
Electric cut-out switches, spark-timers, ignition-distributers, &c. C. M. Grey Mfg. Co. No. 146,824; Sept. 6; v. 290; p. 181.
Electric horns and electric-lighting system for motor-vehicles. Clayton-Wright, Ltd. No. 146,756; Sept. 6; v. 290; p. 181.
Electrical devices. Blarette Manufacturing Co. No. 142,004; Sept. 6; v. 290; p. 171.
Electrical vacuum-tubes and valves. Radio Corporation of America. Nos. 146,929–30; Sept. 6; v. 290; p. 183.
Envelops, Parcel-post mailing-. Bemis Bro. Bag Co. No. 142,244; Sept. 6; v. 290; p. 172.
Face washes and creams, toilet waters, talcum powders, &c. National Products Co. No. 148,342; Sept. 6; v. 290; p. 189.
Fatty oleaginous or unctuous food substances, Prepared. Southern Cotton Oil Company. Nos. 147,580–6; Sept. 6; v. 290; pp. 185–6.
Faucets, cocks, and bibs. E. Stebbins Manufacturing Company. No. 143,670; Sept. 6; v. 290; p. 173.
Feed, Crushed oyster-shell used as poultry. Carolina Crushed Shell Co. No. 150,514; Sept. 6; v. 290; p. 195.
Feed, Prepared poultry. Chapin & Company. No. 147,092; Sept. 6; v. 290; p. 183.
Fertilizers, &c. Lakeland Phosphate & Fertiliser Company. No. 143,931; Sept. 6; v. 290; p. 174.
Fiber gaskets and packings, &c. Kronyte Manufacturing Corporation. No. 147,668; Sept. 6; v. 290; p. 186.
Fire brick and tile. Laclede-Christy Clay Products Company. No. 150,904; Sept. 6; v. 290; p. 195.
Flour, Mixed wheat and corn. Ismert-Hincke Milling Company. No. 143,866; Sept. 6; v. 290; p. 174.
Flour, Self-rising wheat-. Star Milling Company. No. 139,819; Sept. 6; v. 290; p. 170.
Flour, Wheat-. Wells Flour Milling Company. No. 145,296; Sept. 6; v. 290; p. 177.
Fly liquids. Komo Chemical Company. No. 138,860; Sept. 6; v. 290; p. 169.
Forgings, Steel drop-. Jefferson Forge Products Company. No. 148,334; Sept. 6; v. 290; p. 189.
Frozen confections and base for same. O. W. Bullard & F. C. Bullard. No. 145,874; Sept. 6; v. 290; p. 179.
Fruits, berries, Dried and fresh. Oregon Growers Co-operative Assn. No. 146,584; Sept. 6; v. 290; p. 180.
Fruits, Fresh citrus. Lake Region Packing Association. No. 146,834; Sept. 6; v. 290; p. 181.
Furniture and auto polish. A. M. Snyder. No. 149,654; Sept. 6; v. 290; p. 194.
Furniture-polish. L. I. Gordon. No. 127,867; Sept. 6; v. 290; p. 166.
Game-board, game-indicator, game-counter, &c. E. Bruder. No. 147,332; Sept. 6; v. 290; p. 184.
Game-board, game-indicator, game-counter, &c. E. Bruder. No. 147,703; Sept. 6; v. 290; p. 186.
Game-board, game-indicator, game-counter, &c. E. Bruder. No. 148,529; Sept. 6; v. 290; p. 190.
Game, Table. G. O. Woods. No. 138,610; Sept. 6; v. 290; p. 169.
Gas, coal, and oil. Kappler-Fox Foundry Co. No. 150,754; Sept. 6; v. 290; p. 195.
Ginger-ale, Bottled. C. H. Thom. No. 144,207; Sept. 6; v. 290; p. 175.
Glassware, Heat-resisting. Holcomb & Hoke Mfg. Co. No. 146,967; Sept. 6; v. 290; p. 183.
Greases, Transmission and like. Parker-Kiskadden Company. No. 149,202; Sept. 6; v. 290; p. 191.
Gums, rubber cement, Repair. Federal Rubber Company, The. No. 146,881; Sept. 6; v. 290; p. 182.
Gums, rubber cement, Repair. Federal Rubber Company, The. No. 146,888; Sept. 6; v. 290; p. 182.
Gums, rubber cement, Repair. Federal Rubber Company, The. No. 146,895; Sept. 6; v. 290; p. 182.
Hair-grower. S. E. Moses. No. 145,792; Sept. 6; v. 290; p. 178.
Hair-nets. National Trading Company. No. 139,588; Sept. 6; v. 290; p. 170.
Hair nets, Human-. East and West Trading Corporation. No. 149,692; Sept. 6; v. 290; p. 194.
Hair-receivers, bottle-holders, salve-jars, &c. Newark Tortoise Shell Novelty Co. No. 135,527; Sept. 6; v. 290; p. 168.
Hair-tonic and dandruff remedy. G. Martellotta. No. 148,395; Sept. 6; v. 290; p. 189.
Hair tonics and dressings. Melchior Supply Co. No. 139,041; Sept. 6; v. 290; p. 169.
Hammers and metal and wood-lathes, Power-. Little Giant Company. No. 147,436; Sept. 6; v. 290; p. 184.
Horseshoes and horseshoe-calks. Bryden Horse Shoe Co. No. 98,918; Sept. 6; v. 290; p. 165.
Horseshoes and horseshoe-calks. Neversslip Manf. Co. No. 98,908; Sept. 6; v. 290; p. 165.
Insecticide. Holmes Chemical Company, Inc. No. 148,277; Sept. 6; v. 290; p. 188.
Insecticides, germicides, and related products. Charles H. Auerbach and Roy P. Auerbach. No. 148,112; Sept. 6; v. 290; p. 188.
Knives, forks, scissors, razors, &c. Mappin & Webb. Nos. 130,424–5; Sept. 6; v. 290; p. 167.
Leather. American Hide and Leather Company. No. 146,860; Sept. 6; v. 290; p. 182.
Lenses, Automobile-lamp. Filmolens Sales Co. No. 150,894; Sept. 6; v. 290; p. 195.
Liniment. H. C. Storick. No. 146,596; Sept. 6; v. 290; p. 181.
Lumber. Houston Brothers. No. 145,565; Sept. 6; v. 290; p. 177.
Macaroni. Atlantic Macaroni Co. No. 145,053; Sept. 6; v. 290; p. 176.
Magazine, Biweekly. Sherwin Publishing Corporation. No. 147,530; Sept. 6; v. 290; p. 184.
Magazine, Monthly. California Citrograph Publishing Company. No. 149,631; Sept. 6; v. 290; p. 193.
Malt extract. Adam Scheidt Brewing Co. No. 143,787; Sept. 6; v. 290; p. 174.
Malt extract. Decatur Brewing Company. No. 147,415; Sept. 6; v. 290; p. 184.
Mattresses, beds, bed-springs. Southern Spring Bed Co. No. 139,233; Sept. 6; v. 290; p. 169.
Medicinal preparation. R. E. Reynolds. No. 147,311; Sept. 6; v. 290; p. 183.
Medicinal preparation. W. H. Richardson. No. 141,882; Sept. 6; v. 290; p. 171.
Medicinal tonic. B. J. Bruns. No. 148,788; Sept. 6; v. 290; p. 190.
Medicinal treatment of gonorrhea, blood medicine, &c. S. B. Arwood. No. 132,835; Sept. 6; v. 290; p. 167.
Medicinal yeast preparation. J. D. Anderson. No. 146,245; Sept. 6; v. 290; p. 180.
Metal castings. Ohio Steel Foundry Company. No. 146,731; Sept. 6; v. 290; p. 181.
Milk, &c., Malted. C. A. Owen. No. 143,512; Sept. 6; v. 290; p. 173.
Milk, buttermilk, ice-cream, &c. Nissley Creamery Company. No. 133,486; Sept. 6; v. 290; p. 167.
Milking-machines and milking-machine systems and parts thereof. Empire Cream Separator Company. No. 134,360; Sept. 6; v. 290; p. 168.
Mill-baskets, oil-cabinets, tool-chests, hose-reels, &c. Fairbanks Co. No. 142,208; Sept. 6; v. 290; p. 172.
Musical compositions, Printed. Shapiro, Bernstein & Co. No. 142,538; Sept. 6; v. 290; p. 173.
Nail-polish, mud massage, lemon cream, &c., Liquid. A. Gould. No. 146,909; Sept. 6; v. 290; p. 182.
Oil, Cooking-. J. Aspegren. No. 147,701; Sept. 6; v. 290; p. 186.
Oil, Flushing-. Standard Oil Company. Nos. 145,976–7; Sept. 6; v. 290; p. 179.
Oils, Alimentary. Minerva, Sociedad Anónima. No. 138,774; Sept. 6; v. 290; p. 169.
Oils, Lubricating-. Doublene Oil Co. No. 142,636; Sept. 6; v. 290; p. 173.

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PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Oils, Lubricating, &c. American Oil Company. No. 148,015; Sept. 6; v. 290; p. 187.
Onions, Fresh. C. M. Kopp Company. No. 145,069; Sept. 6; v. 290; p. 176.
Packing. L. Penboss. No. 139,473; Sept. 6; v. 290; p. 170.
Padding in the piece, Linen-duck. J. Manowitz & Sons. No. 149,715; Sept. 6; v. 290; p. 194.
Paint and waterproof coatings. E. R. Oden. No. 145,702; Sept. 6; v. 290; p. 178.
Paint enamel. McDougall-Butler Co. No. 149,412; Sept. 6; v. 290; p. 192.
Paints. W. F. Witman. No. 143,725; Sept. 6; v. 290; v. 174.
Paints and varnishes. Asahel Wheeler Company. No. 136,320; Sept. 6; v. 290; p. 168.
Paints and varnishes, &c. Renovite Corporation. No. 148,090; Sept. 6; v. 290; p. 188.
Paints, enamels, varnishes, and furniture-polish. National Paint Syndicate. No. 149,346; Sept. 6; v. 290; p. 192.
Paints, stains, varnishes, paint enamels, &c. California Paint Company. No. 146,109; Sept. 6; v. 290; p. 179.
Paints, varnishes, paint enamels, wood-stains, and fillers. C. Albert Kuehnle Co., Inc. No. 149,332; Sept. 6; v. 290; p. 192.
Painters' materials. John Dunn, Son & Co. No. 140,870; Sept. 6; v. 290; p. 171.
Paper bags. Crown Willamette Paper Company. No. 142,695; Sept. 6; v. 290; p. 173.
Paper bags. Crown Willamette Paper Company. Nos. 145,319–20; Sept. 6; v. 290; p. 177.
Paper bags. McFall Company. No. 142,687; Sept. 6; v. 290; p. 173.
Perfumes and facial creams, face-powder, cocoanut-oil shampoo, &c. M. Miller. No. 146,776; Sept. 6; v. 290; p. 181.
Perfumes, powders, rouge, &c. Bowman Drug Co. No. 146,108; Sept. 6; v. 290; p. 179.
Petroleum, asphalt oils, bengin, &c. Texas Company. No. 129,955; Sept. 6; v. 290; p. 166.
Phonograph-needlee. Masterphone Corporation of American. No. 147,834; Sept. 6; v. 290; p. 187.
Phonograph-needles. Nupoint Mfg. Co. No. 144,681; Sept. 6; v. 290; p. 176.
Phonograph-records. Opera Disc Company. No. 145,643; Sept. 6; v. 290; p. 178.
Phonographs. P. Seiditch. No. 143,713; Sept. 6; v. 290; p. 174.
Pianos, Player-. Gulbransen-Dickinson Company. No. 140,591; Sept. 6; v. 290; p. 170.
Plant food. Stim-U-Plant Tablet Co. No. 136,534; Sept. 6; v. 290; p. 168.
Polishing and cleaning compounds. Silica Products Co. No. 149,526; Sept. 6; v. 290; p. 193.
Potato chips. F. P. Gasser. No. 149,184; Sept. 6; v. 290; p. 191.
Preparation for exterminating vermin on the human body and hair. Homeaid Products Co. No. 148,071; Sept. 6; v. 290; p. 187.
Preparation for polishing finished surfaces. Du-Rite Products Co. No. 147,820; Sept. 6; v. 290; p. 187.
Preparation for treatment of warts. Homeaid Products Co. No. 148,072; Sept. 6; v. 290; p. 187.
Preparation for use in bleaching the skin. N. P. Stone. No. 146,848; Sept. 6; v. 290; p. 182.
Preparation used in the treatment of tuberculosis and a preparation for the eyes. F. P. Catania. No. 148,374; Sept. 6; v. 290; p. 189.
Publication, newspaper, magazine, or report. Daily and weekly. Allen E. Beals Corporation. No. 148,115; Sept. 6; v. 290; p. 188.
Radio apparatus. Adams-Morgan Company. No. 137,695; Sept. 6; v. 290; p. 169.
Romper-cloths, piece goods. Walton N. Moore Dry Goods Co. No. 143,873; Sept. 6; v. 290; p. 174.
Roofing, Prepared. National Asbestos Manufacturing Co. No. 145,579; Sept. 6; v. 290; p. 178.
Rubber belting. Goodyear Tire and Rubber Company. No. 116,463; Sept. 6; v. 290; p. 165.
Rubber, canvas, and leather belting. Gifford-Wood Company. Nos. 121,583–4; Sept. 6; v. 290; p. 165.
Salt, Block-. Butler-Magner Co. No. 148,423; Sept. 6; v. 290; p. 189.
Sanitary toothbrush-receptacles. B. R. Morrison. No. 145,840; Sept. 6; v. 290; p. 179.
Separators, Centrifugal. Empire Cream Separator Company. No. 134,359; Sept. 6; v. 290; p. 167.
Separators, Milk or cream. Aktiebolaget Eskilstuna Separator. No. 146,198; Sept. 6; v. 290; p. 180.
Sheeting, sheets, pillow-cases, Cotton. Miller & Hadley Company. No. 145,030; Sept. 6; v. 290; p. 176.
Shoe-polishes. Shu-Milk Products Corporation. No. 149,247; Sept. 6; v. 290; p. 192.
Silk and silk manufactures, Machinery used in preparation and treatment of. Scranton Silk Machine Company. No. 134,660; Sept. 6; v. 290; p. 168.
Silk piece goods. Bianchini Férier. Nos. 148,699–700; Sept. 6; v. 290; p. 190.
Silks in the piece. I. Sacks & Sons. No. 149,030; Sept. 6; v. 290; p. 191.
Silks in the piece, Broad. Schwarzenbach, Huber & Company. No. 148,351; Sept. 6; v. 290; p. 189.
Soap. Kolynos Company. No. 149,406; Sept. 6; v. 290; p. 192.
Soap, Laundry. Western Soap Company. No. 149,367; Sept. 6; v. 290; p. 192.
Soap, Skin-. Radior Co. Ltd. of London. No. 125,245; Sept. 6; v. 290; p. 166.
Soap, Toilet. International Drug Company. No. 149,185; Sept. 6; v. 290; p. 191.
Soap, Toilet and shaving. Nathan & Cie. Laboratories Cadum. No. 149,237; Sept. 6; v. 290; p. 191.
Soaps. Colgate & Company. Nos. 149,444–5; Sept. 6; v. 290; p. 193.
Solder. Great Western Smelting & Refining Company. No. 149,282; Sept. 6; v. 290; p. 192.
Soutache, shell-braids, Mercerized, &c. Corona Braid Works. No. 144,666; Sept. 6; v. 290; p. 175.
Steel. Firth Sterling Steel Company. No. 149,583; Sept. 6; v. 290; p. 193.
Steel billets, bars, forgings, and disks. Poldi Steel Corporation of America. Nos. 146,391–2; Sept. 6; v. 290; p. 180.
Steel, Rolled. The Superior Sheet Steel Company. No. 148,039; Sept. 6; v. 290; p. 187.
Swabbing compound for cannon. S. D. Benollel. No. 145,493; Sept. 6; v. 290; p. 177.
Syrup and molasses, Table-. Atlas Specialty Company. No. 134,231; Sept. 6; v. 290; p. 167.
Syrups, candies, nuts, &c., Food-. Saul Magnus & Henry G. Mosler. No. 136,989; Sept. 6; v. 290; p. 169.
Syrups for table purposes. Log Cabin Products Company. No. 147,672; Sept. 6; v. 290; p. 186.
Table-cloths and napkins. Brien Manufacturing Co. No. 135,404; Sept. 6; v. 290; p. 168.
Tablets, Medicated candy. Seven Oils Company. No. 129,574; Sept. 6; v. 290; p. 166.
Tablets, quinin sulfate, &c., Headache-. B. M. Johnson Manufacturing Co. No. 143,645; Sept. 6; v. 290; p. 173.
Talking-machines, phonographs, music-boxes. Sonora, Inc. No. 145,089; Sept. 6; v. 290; p. 176.
Tires, Lee Tire & Rubber Co. No. 142,446; Sept. 6; v. 290; p. 172.
Tires, Rubber. Doss Rubber & Tube Co. No. 134,241; Sept. 6; v. 290; p. 167.
Toe and heel protectors. L & W Toe and Heel Savers. 150,278; Sept. 6; v. 290; p. 194.
Toilet partitions. Hughes-Keenan Company. No. 146,077; Sept. 6; v. 290; p. 179.
Tomatoes, Fresh. Homestead Growers Assn. No. 139,275; Sept. 6; v. 290; p. 170.
Tonic for rheumatism. Clyde Collins Company Inc. No. 148,430; Sept. 6; v. 290; p. 189.
Tools, Pneumatic. Chicago Pneumatic Tool Company. No. 146,296; Sept. 6; v. 290; p. 180.
Tooth-paste. National Drug Stores Corp. No. 148,962; Sept. 6; v. 290; p. 191.
Toy chemical sets. American Drug and Chemical Co. No. 150,173; Sept. 6; v. 290; p. 194.
Toy coaster. Novelty Products Company. No. 144,198; Sept. 6; v. 290; p. 175.
Toy dog. International Toy Manufacturing Co. No. 145,109; Sept. 6; v. 290; p. 176.
Toy figures, Flat wood. Jonesees Manufacturing Co. No. 141,423; Sept. 6; v. 290; p. 171.
Traps, Animal-. W. A. Gibbs. No. 148,934; Sept. 6; v. 290; p. 191.
Trusses. L. A. Smith. No. 139,012; Sept. 6; v. 290; p. 169.
Turpentine substitute. The Atlantic Refining Company. No. 148,691; Sept. 6; v. 290; p. 190.
Varnish, varnish-remover, liquid drier, black lacquer, &c. Standard Varnish Works. No. 148,627; Sept. 6; v. 290; p. 190.
Vehicles, Name and license plates for motor-. Autobome Plate Company. No. 146,160; Sept. 6; v. 290; p. 179.
Voile in the piece, Cotton. Jacob S. Bernheimer & Bro. No. 148,113; Sept. 6; v. 290; p. 188.
Vulcanizing plants, Stationary. Scheffer & Rossum Co. No. 128,281; Sept. 6; v. 290; p. 166.
Wall-finish, Interior. Alinall Mfg. Co. No. 142,881; Sept. 6; v. 290; p. 172.
Waterproofed cotton duck and canvas. W. W. Stanley. No. 147,579; Sept. 6; v. 290; p. 185.
Window-regulators. Dura Mechanical Hardware Co. No. 145,675; Sept. 6; v. 290; p. 178.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 6, 1921.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 46: 1,390,060
2— 54: 1,389,689
59: 1,390,033
144: 1,389,664
1,389,922
1,390,010
1,390,086
1,390,135
149: 1,389,985
4— 2: 1,390,221
21: 1,389,896
5— 4: 1,389,930
13: 1,389,715
47: 1,389,756
49: 1,390,248
54: 1,389,931
55: 1,389,950
56: 1,389,682
60: 1,389,697
63: 1,389,918
8— 19: 1,389,627
9— 22: 1,389,809
24: 1,389,988
10— 102: 1,389,916
11— 4: 1,389,702
12— 17: 1,389,613
33: 1,389,714
53: 1,389,643
123: 1,389,846
139: 1,389,857
145: 1,389,678
13— 18: 1,389,883
15— 8: 1,389,809
1,390,076
1,390,218
13: 1,389,743
30: 1,389,957
39: 1,389,624
51: 1,389,665
56: 1,389,972
60: 1,390,099
7— 30: 1,389,784
8— 3.5: 1,390,126
6: 1,390,005
19: 1,389,905
27: 1,390,257
38: 1,389,599
42: 1,390,058
45: 1,389,821
1,389,892
48.8: 1,390,244
20— 16: 1,390,174
22— 80: 1,390,140
82: 1,390,212
116: 1,389,785
142: 1,389,722
209: 1,389,725
23— 10: 1,389,980
1,390,037
1,390,200
13: 1,389,861
1,389,862
24: 1,390,241
1,390,260
24— 7: 1,390,063
69: 1,389,590
81: 1,389,675
87: 1,389,804
102: 1,390,255
126: 1,389,859
129: 1,389,853
1,390,152
136: 1,390,087
188: 1,389,948
219: 1,389,758
233: 1,390,129
241: 1,389,582
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25— 30: 1,390,134
121: 1,389,817
127: 1,390,133
128: 1,390,104
131: 1,389,803
1,390,066
144: 1,389,583
26— 12: 1,390,093
28— 2: 1,389,699
4: 1,389,672
30: 1,390,162
34: 1,390,081
21: 1,389,761
1,389,844
62: 1,389,975
86.1: 1,389,667
86.3: 1,389,657
156: 1,389,739
157: 1,390,022
164: 1,390,307
30— 12: 1,389,962
32— 34: 1,389,954
33— 1: 1,390,027
76: 1,389,904
100: 1,389,864
111: 1,389,940
172: 1,389,912
34— 12: 1,389,887
23: 1,389,964
36— 36: 1,389,913
42: 1,390,075
67: 1,390,165
37— 57: 1,389,727
39— 18: 1,390,015
40— 1.5: 1,389,711
7: 1,390,125
11: 1,390,163
1,390,172
23: 1,390,026
24: 1,390,191
40: 1,389,707
59: 1,390,001
63: 1,389,983
68: 1,390,091
78: 1,389,592
102: 1,389,898
113: 1,389,676
120: 1,389,754
125: 1,389,587
132: 1,389,799
41— 21: 1,389,963
42— 3: 1,389,944
43— 8: 1,390,006
45: 1,389,763
46: 1,389,644
69: 1,389,636
81: 1,390,626
88: 1,390,214
90: 1,390,210
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92: 1,389,884
44— 7: 1,389,638
8: 1,390,228
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1,390,230
1,390,231
1,390,232
1,390,233
45— 7: 1,389,986
28: 1,390,184
82: 1,389,700
131: 1,390,181
46— 13: 1,389,572
27: 1,389,926
40: 1,389,892
1,390,136
1,389,589
1,389,611
69: 1,390,095
31: 1,389,932
36: 1,389,989
51— 36: 1,389,588
52: 1,390,145
56: 1,390,098
101: 1,389,835
194: 1,389,850
209: 1,389,738
263: 1,390,128
53— 1: 1,390,142
3: 1,390,008
5: 1,389,770
7: 1,389,976
54— 1: 1,389,882
1,390,115
55— 3: 1,390,208
22: 1,389,808
55— 30: 1,390,169
107: 1,389,708
56— 70: 1,389,746
1,389,709
106: 1,390,159
422: 1,389,779
58— 41: 1,390,018
52: 1,390,110
128: 1,389,666
61— 63: 1,390,056
62— 4: 1,389,668
5: 1,390,161
115: 1,389,747
64— 19: 1,390,197
25: 1,390,130
1,390,131
35: 1,389,965
36: R. 15,187
54: 1,389,606
64: 1,389,698
91: 1,389,971
92: 1,389,970
96: 1,389,915
65— 31: 1,389,732
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61: 1,389,594
65: 1,390,157
1,390,173
66— 7: 1,390,164
10: 1,390,188
67— 32: 1,389,702
68— 3: 1,389,681
9: 1,389,753
1,390,124
18: 1,390,160
70— 46: 1,389,805
75: 1,390,147
97: 1,389,858
108: 1,390,222
128: 1,389,966
129: 1,389,933
72— 1: 1,390,102
7: 1,390,121
110: 1,389,942
1,390,073
120: 1,389,866
137: 1,390,168
74— 5: 1,390,040
7: 1,390,077
1,390,092
28: 1,390,198
34: 1,389,622
36: 1,389,720
58: 1,389,816
81: 1,389,847
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99: 1,389,580
104: 1,389,728
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75— 1: 1,389,679
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78— 93: 1,390,243
81— 3: 1,390,071
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41: 1,390,189
59: 1,389,759
96: 1,390,112
105: 1,389,581
121: 1,389,736
158: 1,389,695
82— 29: 1,389,919
32: 1,389,687
83— 12: 1,390,019
14: 1,390,256
56: 1,390,235
64: 1,389,651
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85: 1,389,674
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84— 68: 1,389,694
84— 137: 1,389,693
183: 1,389,825
285: 1,390,004
87— 17: 1,389,574
1,389,575
88— 14: 1,389,836
17: 1,389,775
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18.4: 1,390,247
22: 1,389,755
26: 1,389,776
89— 33: 1,389,810
91— 39: 1,389,772
46: 1,389,630
92— 14: 1,389,936
93— 1: 1,390,059
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2: 1,390,252
32: 1,389,992
65: 1,390,246
77: 1,389,615
88: 1,389,742
97— 4: 1,390,240
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1,390,173
7: 1,390,164
1,389,188
48: 1,390,114
72: 1,390,089
98— 22: 1,389,788
99— 1: 1,389,577
13: 1,389,947
14: 1,390,202
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101— 127: 1,390,166
352: 1,390,156
103— 8: 1,390,085
10: 1,389,635
43: 1,390,051
44: 1,389,834
62: 1,389,783
104— 103: 1,389,668
254: 1,389,617
105— 62: 1,390,237
213: 1,389,616
106— 24: 1,390,038
107— 51: 1,390,138
66: 1,389,774
108— 8: 1,389,979
110— 22: 1,390,225
44: 1,389,982
112— 104: 1,389,598
137: 1,390,195
113— 23: 1,389,703
1,389,704
80: 1,389,752
87: 1,389,894
112: 1,389,900
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66.5: 1,389,865
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26: 1,389,791
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139— 22: 1,389,823
140— 83: 1,389,893
141— 7: 1,389,853
9: 1,390,223
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113: 1,389,908
145— 126: 1,389,578
146— 6: 1,389,765
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11: 1,390,217
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149— 5: 1,390,205
150— 30: 1,390,049
54: 1,389,838
151— 21: 1,389,927
28: 1,390,007
53: 1,389,845
152— 5: 1,389,806
8: 1,390,024
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14: 1,389,607
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16: 1,389,777
21: 1,390,043
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28: 1,389,798
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32: 1,390,143
33: 1,389,799
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48: 1,389,807
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155— 7: 1,390,177
148: 1,389,940
156— 29: 1,389,579
31: 1,389,603
33: 1,389,843
158— 61: 1,389,670
66: 1,389,990
97: 1,389,614
164— 15: 1,389,878
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164— 23: 1,389,654
31: 1,390,117
52: 1,389,881
61: 1,390,254
89: 1,389,618
1,389,645
166— 1: 1,389,920
167— 4: 1,389,663
6: 1,390,088
9: 1,389,677
1,389,999
1,390,238
32: 1,389,632
183— 24: 1,390,096
184— 48: 1,389,640
185— 40: 1,389,735
45: 1,389,953
186— 1: 1,389,656
1,389,690
187— 80: 1,390,111
81: 1,389,867
188— 16: 1,389,717
77: 1,389,952
119: 1,389,917
190— 13: 1,389,595
16: 1,390,012
191— 29: 1,390,119
43: 1,389,773
49: 1,390,120
192— 73: 1,389,855
193— 8: 1,389,888
33: 1,390,178
194— 91: 1,389,811
195— 15: 1,389,852
196— 14: 1,389,978
25: 1,389,934
1,390,092
197— 28: 1,389,911
66: 1,389,718
135: 1,389,949
198— 15: 1,389,828
233: 1,390,095
199— 56: 1,389,573
200— 4: 1,389,848
5: 1,389,899
52: 1,389,998
107: 1,389,996
150: 1,390,036
166: 1,389,713
204— 14: 1,389,829
29: 1,389,750
1,390,155
38: 1,389,691
205— 14: 1,390,132

206— 68: 1,390,234
208— 33: 1,389,633
165: 1,389,854
211— 8: 1,390,031
1,390,175
11: 1,390,000
14: 1,389,973
1,389,984
16: 1,389,610
1,390,144
28: 1,390,196
213— 42: 1,389,793
67: 1,389,840
214— 6: 1,389,794
65.5: 1,389,724
104: 1,390,032
215— 37: 1,389,659
217— 124: 1,389,897
218— 2.1: 1,389,790
219— 38: 1,390,101
41: 1,389,684
43: 1,390,028
44: 1,389,628
220— 9: 1,390,227
221— 60: 1,389,956
78: 1,390,011
223— 19: 1,390,054
224— 29: 1,390,204
226— 19: 1,390,170

226— 84: 1,389,786
229— 7: 1,389,923
1,390,116
230— 27: 1,389,782
234— 1.5: 1,390,017
20: 1,389,723
41: 1,389,641
235— 22: 1,389,961
91: 1,389,827
236— 8: 1,390,179
238— 2: 1,390,203
8: 1,390,182
10: 1,389,781
31: 1,390,108
60: 1,390,190
65: 1,389,705
298: 1,389,686
329: 1,389,721
240— 1: 1,389,941
7: 1,389,585
1,389,901
41: 1,389,958
44: 1,389,571
62: 1,389,726
78: 1,389,831
81: 1,390,070
242— 146: 1,389,863
244— 1: 1,389,830
19: 1,389,925

244— 20: 1,389,959
29: 1,389,757
31: 1,390,216
1,390,258
246— 63: 1,390,067
1,390,068
182: 1,389,602
208: 1,389,660
255: 1,389,748
411: 1,389,730
482: 1,390,082
249— 18: 1,389,797
250— 20: 1,389,800
34: 1,390,250
41: 1,390,020
251— 56: 1,389,939
160: 1,389,955
253— 69: 1,389,910
254— 43: 1,390,153
54: 1,389,760
68: 1,389,994
75: 1,389,814
88: 1,390,109
101: 1,390,090
102: 1,389,737
131: 1,389,820
139: 1,389,968
255— 4: 1,390,025
35: 1,389,710

257— 58: 1,389,719
125: 1,389,744
1,389,749
130: 1,389,631
1,389,745
192: 1,389,637
241: 1,389,961
259— 104: 1,390,251
113: 1,389,619
261— 90: 1,390,188
262— 33: 1,390,158
266— 43: 1,389,751
267— 20: 1,389,987
28: 1,389,591
30: 1,390,021
41: 1,389,839
268— 4: 1,390,008
270— 30: 1,389,906
1,390,253
68: 1,390,213
274— 1: 1,390,206
10: 1,390,041
28: 1,389,885
1,389,886
35: 1,389,683
279— 113: 1,389,974
114: 1,389,731
280— 5: 1,390,045
16: 1,390,106

280— 61: 1,390,128
94: 1,389,620
112: 1,389,648
281— 1: 1,390,180
283— 1: 1,389,872
1,390,044
34: 1,390,079
36: R. 15,189
60: 1,389,849
285— 22: 1,389,768
25: 1,389,997
203: 1,389,008
287— 54: 1,389,929
93: 1,390,042
103: 1,389,661
107: 1,389,787
289— 2: 1,390,103
290— 2: 1,390,062
30: 1,389,716
31: 1,389,701
292— 60: 1,389,709
247: 1,390,105
297: 1,390,009
302: 1,390,029
293— 37: 1,389,943
294— 15: 1,389,903
17: 1,390,185
295— 42: 1,389,928

296— 53: 1,389,819
59: 1,389,860
84: 1,389,935
116: 1,390,219
1,390,220
117: 1,390,137
139: 1,390,113
144: 1,389,671
298— 14: 1,389,642
19: 1,390,122
299— 69: 1,390,069
84: 1,390,176
98: 1,390,035
105: 1,390,047
115: 1,390,048
140: 1,389,593
301— 11: 1,389,778
1,390,186
17: 1,390,141
29: 1,390,187
32: 1,389,649
35: 1,389,937
41: 1,389,875
46: 1,389,822
51: 1,389,989
63: 1,389,601
136: 1,389,822
303— 15: 1,390,055

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 13TH DAY OF SEPTEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Aaltonen, Yrjo J., Tampere, Finland. Internal-combustion engine. No. 1,390,741; Sept. 13; v. 290; p. 329.
Abbott, Herbert E., and E. Enz, Oakville, Iowa. Throttle control for tractors. No. 1,390,854; Sept. 13; v. 290; p. 352.
Adams, Lawrence, Layton, Utah. Combined beet-harvester. No. 1,390,261; Sept. 13; v. 290; p. 233.
Adamson, James S. (See Montpetit, J. R., and Adamson.)
Aktiebolaget Svenska Kugghjulsfabriken. (See Wingqvist, Erik H., assignor.)
Albert, Ira C. (See Bittle, Harry, assignor.)
Album, Adolph Y. S., Chicago, Ill. Jeweler's tray. No. 1,390,855; Sept. 13; v. 290; p. 352.
Album, Adolph Y. S., Chicago, Ill. Hairpin. No. 1,390,856; Sept. 13; v. 290; p. 352.
Alfa-Laise Manufacturing Company. (See Sharp, Lee C., assignor.)
Allcut, Chester T., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Measuring device. No. 1,390,743; Sept. 13; v. 290; p. 330.
Allan, Hugh L., Ayr, Scotland. Oil-refining apparatus. No. 1,390,742; Sept. 13; v. 290; p. 329.
Allen, Charles H., and J. B. Anderson, Pittsburgh, Pa. Burner-cleaning device for blowtorches. No. 1,390,264; Sept. 13; v. 290; p. 233.
Allen, Charles H., and J. B. Anderson, Pittsburgh, Pa. Blowtorch. No. 1,390,265; Sept. 13; v. 290; p. 234.
Allen, Jessie A., *et al.* (See Huntley, Charles L., assignor.)
Allen, John D., Philadelphia, Pa. Compensating gearing for motor-vehicles. No. 1,390,420; Sept. 13; v. 290; p. 264.
Allen, Rufus R., Clarinda, Iowa. Quilting-frame. No. 1,390,857; Sept. 13; v. 290; p. 352.
Ambrose, Frank F., Los Angeles, Calif., assignor to Union Steam Pump Company, Battle Creek, Mich. Rotary pump. No. 1,390,744; Sept. 13; v. 290; p. 330.
American Bosch Magneto Corporation. (See Rosner, Adolph, assignor.)
American Instrument Company. (See Bennett, George, Sr., assignor.)
American Steel Foundries. (See Darby, Robert F., assignor.)
American Steel Foundries. (See Floyd, George G., assignor.)
American Steel Foundries. (See Lamont, John A., assignor.)
American Steel Foundries. (See Trowbridge, William S., assignor.)
American Telephone and Telegraph Company. (See Osborne, Harold S., assignor.)
American Telephone and Telegraph Company. (See Rhodes, William A., assignor.)
American Thermometer Company. (See Bolin, Charles D., assignor.)
Amerman, Ralph A., assignor to Scranton Glass Instrument Company, Scranton, Pa. Syringe-hydrometer. No. 1,390,858; Sept. 13; v. 290; p. 352.
Anderson, Bert, Granger, Tex. Gearing. No. 1,390,262; Sept. 13; v. 290; p. 233.
Anderson, James B. (See Allen, C. H., and Anderson.)
Anderson, James W., New York, N. Y. Manifolding device. No. 1,390,263; Sept. 13; v. 290; p. 233.
Anderson, Raymond M., assignor to G. M. Holley, Detroit, Mich. Carbureter. No. 1,390,477; Sept. 13; v. 290; p. 275.
Andrzejewski, Stanislaus B., Boston, Mass. Three-valve automobile gasolene-lock. No. 1,390,859; Sept. 13; v. 290; p. 353.
Araki, Kichijiro, Kagoshima, assignor of one-fourth to G. Nakamura, Kobe, Japan. Automatic productive-hen-selecting apparatus. No. 1,390,860; Sept. 13; v. 290; p. 353.
Armat, Thomas, Washington, D. C. Production of animated pictures. No. 1,390,861; Sept. 13; v. 290; p. 353.
Armes, Earl H., Julesburg, Colo. Air-cooling system. No. 1,390,862; Sept. 13; v. 290; p. 353.
Armistead, William E., La Grange, Ga. Apparatus for making ice. No. 1,390,863; Sept. 13; v. 290; p. 353.
Armstrong, Lavanda M., Peoria, Ill. Aircraft of the lighter-than-air type. No. 1,390,745; Sept. 13; v. 290; p. 330.
Armstrong, Lottie L., Washington, D. C. Bottle-holder. No. 1,390,266; Sept. 13; v. 290; p. 234.
Armstrong, Percy A. E., Loudonville, N. Y. Making cored tubular bodies. No. 1,390,746; Sept. 13; v. 290; p. 330.
Arnold Clarence F., assignor to H. F. Walliser Company, Philadelphia, Pa. Machine for making and applying tufts. No. 1,390,267; Sept. 13; v. 290; p. 234.
Arthur, James W. (See Arthur, John M., assignor.)
Arthur, John M., New Woodstock, N. Y., assignor of one-half to J. W. Arthur, Akron, Ohio. Rubber-shoe-vulcanizing machine. No. 1,390,478; Sept. 13; v. 290; p. 275.
Avery, Bruce W., Whiting, Ind. Exhaust-gas conveyer. No. 1,390,950; Sept. 13; v. 290; p. 372.
Babcock & Wilcox Company, The. (See Kerr, Howard J., assignor.)
Baker, Anna, assignor of one-half to E. Baker, Baltimore, Md. Bodkin. No. 1,390,864; Sept. 13; v. 290; p. 354.
Baker, Edva. (See Baker, Anna, assignor.)
Baker, Frank, Pimlico, London, England. Parachute. No. 1,390,598; Sept. 13; v. 290; p. 300.
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Eaton, Albert N., Omaha, Nebr. Barrel-hoop machine. No. 1,390,282; Sept. 13; v. 290; p. 237.
Eaton, George M., assignor to Westinghouse Electric & Manufacturing Company, Pittsburgh, Pa. Flexible coupling. No. 1,390,514; Sept. 13; v. 290; p. 283.
Edelmann, Erich, Chicago, Ill. Automatic hose-coupling. No. 1,390,283; Sept. 13; v. 290; p. 237.
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Edwards, Charles F., Ottawa, Ontario, Canada. Toy railway. No. 1,390,891; Sept. 13; v. 290; p. 359.
Edwards, William A., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Carbureter. No. 1,390,681; Sept. 13; v. 290; p. 318.
Ehrenfeld, Ralph, and N. Hansen, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Controller. No. 1,390,515; Sept. 13; v. 290; p. 283.
Ehrhart, Raymond N., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Heat-conserving apparatus. No. 1,390,516; Sept. 13; v. 290; p. 283.
Eichberg, Simon, Chicago, Ill. Hose-supporter. No. 1,390,769; Sept. 13; v. 290; p. 335.
Eichenhofer, Walter F. (See Brown, Jacob S., assignor.)
Eiermann, Charles M., New York, N. Y. Automobile attachment. No. 1,390,433; Sept. 13; v. 290; p. 266.
Eighmy, Elmer C. (See Lake, George L., assignor.)
Eimke, Charles, Brooklyn, N. Y. Valve-control float. No. 1,390,892; Sept. 13; v. 290; p. 360.
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Electric Railway Improvement Company. (See Stanton, Mark T., assignor.)
Elizabeth Auto Parts Manufacturing Company. (See Conord, Eugene L., assignor.)
Elkin, Margaret R. (See Knorr, Frederick J., assignor.)
Elliott, Thaddious V., New York, N. Y. Anti-skidding device. No. 1,390,893; Sept. 13; v. 290; p. 360.
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Ellis, Carleton, Montclair, N. J. Making catalyzers. No. 1,390,683; Sept. 13; v. 290; p. 319.
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Ellis, Carleton, Montclair, N. J. Food product containing hydrogenated oil. No. 1,390,689; Sept. 13; v. 290; p. 319.
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Ellis, Carleton, Montclair, N. J. Polishing or finishing composition. No. 1,390,691; Sept. 13; v. 290; p. 320.
Elvin, Robert F., *et al.* (See Hansen, William A., assignor.)
Emery, Elias J., Lynn, Mass. Resilient heel. No. 1,390,348; Sept. 13; v. 290; p. 350.
Emery, James H., New York, N. Y. Artificial grapes and producing same. No. 1,390,349; Sept. 13; v. 290; p. 250.
Ensign, Emory S., Rockford, assignor to Spengler Loomis Mfg. Co., Chicago, Ill. Chip-receptacle and producing same. No. 1,390,517; Sept. 13; v. 290; p. 284.
Enz, Ezra. (See Abbott, H. E., and Enz.)
Epworth, Charles E., Brooklyn, N. Y. Gas-heater. No. 1,390,518; Sept. 13; v. 290; p. 284.
Erickson, Eduard S., De Lamere, N. D. Grain-binder attachment. No. 1,390,894; Sept. 13; v. 290; p. 360.
Erler, Bruno G., Oak Lane, Pa., assignor of two-fifths to T. J. Davidson, Camden, N. J., and three-twentieths to J. Richter, Philadelphia, Pa. Resilient tire. No. 1,390,895; Sept. 13; v. 290; p. 360.
Error-No, Inc. (See Rothfus, Edward W., assignor.)
Evans, Fred, Summit, assignor to E. T. Tranzen, Maplewood, and A. C. Hensler, Newark, N. J. Adjustable striker-plate for doors. No. 1,390,519; Sept. 13; v. 290; p. 284.
Evans, William S., Duluth, Minn. Spotlight-support. No. 1,390,350; Sept. 13; v. 290; p. 250.
Ewing, Finis L., *et al.* (See Hansen, William A., assignor.)
Faessel, Albert, assignor to Continental Bolt & Iron Works, Chicago, Ill. Automatic nut-applying device. No. 1,390,351; Sept. 13; v. 290; p. 250.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control equipment. No. 1,390,606; Sept. 13; v. 290; p. 302.
Farmer, Clyde C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Electric contact device. No. 1,390,607; Sept. 13; v. 290; p. 302.
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Faust, Prof. Dr. Edwin H. (See Ott, Erwin, assignor.)
Fay, Leo F., Ecorse, Mich. Washing-machine. No. 1,390,520; Sept. 13; v. 290; p. 284.
Fay, Leo F., Ecorse, Mich. Washing-machine. No. 1,390,521; Sept. 13; v. 290; p. 284.
Fawick, Thomas L., Chicago, Ill., assignor to Twin Disc Clutch Company, Racine, Wis. Adjusting means for friction-clutches. No. 1,390,352; Sept. 13; v. 290; p. 251.
Felton, Charles H., Michigan City, Ind. Dust-separator. No. 1,390,284; Sept. 13; v. 290; p. 238.
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Ferguson, James, and W. H. Bennett, Vancouver, British Columbia, Canada. Telephone-mouthpiece disinfectant. No. 1,390,896; Sept. 13; v. 290; p. 360.
Fernandes, Manuel G., Buenos Aires, Argentina. Sugar-cane mill. No. 1,390,693; Sept. 13; v. 290; p. 319.
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Finnegan, Patrick H., Cresco, Iowa. Fence-wire stretcher. No. 1,390,770; Sept. 13; v. 290; p. 335.
Fish, Edwards E., Phoenixville, Pa. Superheated-steam boiler. No. 1,390,771; Sept. 13; v. 290; p. 335.
Fisher, John W., Blackpool, England. Variable gearing. No. 1,390,522; Sept. 13; v. 290; p. 285.
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Flatlite Limited. (See Balaillie, John G., assignor.)
Fleming, William E., Los Angeles, Calif. Fastener for blankets, quilts, &c., for baby-cribs. No. 1,390,608; Sept. 13; v. 290; p. 303.
Flintoff, Thomas, Claremont, Perth, Western Australia. Artificial tooth. No. 1,390,353; Sept. 13; v. 290; p. 251.
Flory, Ernest M., Harrisonburg, Va. Fuel-saver for engines. No. 1,390,897; Sept. 13; v. 290; p. 361.
Floyd, George G., assignor to American Steel Foundries, Chicago, Ill. Side frame and tie-bar connection. No. 1,390,434; Sept. 13; v. 290; p. 267.
Fontaine, Alfred, Bridgeport, and C. Vincent, New Haven, Conn. Egg-poacher. No. 1,390,772; Sept. 13; v. 290; p. 335.
Fortier, Alfred, Mayo Landing, Yukon Territory, Canada. Paddle-wheel. No. 1,390,523; Sept. 13; v. 290; p. 285.
Foster, Harry C., assignor to Indiana Lamp Company, Connersville, Ind. Latch for lamp construction. No. 1,390,773; Sept. 13; v. 290; p. 336.
Fowler, Jonathan O., New York, N. Y. Key-base for plastic material. No. 1,390,774; Sept. 13; v. 290; p. 336.
France, Arthur G., London, England. Cotter-pin, linch-pin, and the like. No. 1,390,609; Sept. 13; v. 290; p. 303.
Francis, Wilber I. (See Black, R., and Francis.)
Fraser, Lovias F., Shamrock, Okla. Separator. No. 1,390,898; Sept. 13; v. 290; p. 361.
Fraser, Warren F., Westboro, Mass., assignor, by mesne assignments, to Norton Company, Worcester, Mass. Mechanical movement. (Reissue.) No. 15,190; Sept. 13; v. 290; p. 376.
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French, Harry F., and R. C. Benner, Fremont, Ohio, assignor, by mesne assignments, to National Carbon Company, Inc. Electric battery. No. 1,390,524; Sept. 13; v. 290; p. 285.
Fried, Julius, New York, N. Y. Dental apparatus. No. 1,390,354; Sept. 13; v. 290; p. 251.
Fried. Krupp Aktiengesellschaft. (See Sundhaussen, Hermann, assignor.)
Fritz, Charles, Baltimore, Md. Nut-lock. No. 1,390,775; Sept. 13; v. 290; p. 336.
Froelich, John, assignor to L. S. Hackney, St. Paul, Minn. Circular radiator. No. 1,390,899; Sept. 13; v. 290; p. 361.
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Funkey, Charles H., Ramsay, Mich. Mine-car-loading shovel. No. 1,390,695; Sept. 13; v. 290; p. 320.
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Gahm, Frank, Streator, Ill. Bumper for automobiles. No. 1,390,285; Sept. 13; v. 290; p. 238.
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Gallagher, George S., and G. Schadee, assignors, by mesne assignments, to E. G. Gallagher and A. Schadee, New York, N. Y. Vehicle-wheel. (Reissue.) No. 15,191; Sept. 13; v. 290; p. 377.
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Gardner, George W., Bridgeport, Conn. Corset-clasp. No. 1,390,776; Sept. 13; v. 290; p. 336.
Garland, William F., New York, N. Y. Carrying drum or reel. No. 1,390,286; Sept. 13; v. 290; p. 238.
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Gathman, Monte B., Shelbyville, assignor to A. Vonnegut, Indianapolis, Ind. Feeding device. No. 1,390,777; Sept. 13; v. 290; p. 336.
Gautier, Georges. (See Mauclaire, L., Garbarini, and Gautier.)
Gazda, Adolph A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Elevator-control system. No. 1,390,526; Sept. 13; v. 290; p. 286.
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General Electric Company. (See Thompson, Louis W., assignor.)
General Lead Batteries Company. (See Gould, David F., assignor.)
Gent, Edgar W. (See Dobbin, H. F., and Gent.)
Gerdeman, Frank H., Findlay, Ohio. Tractor control. No. 1,390,287; Sept. 13; v. 290; p. 238.
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Gillham, Alfred R., Cincinnati, Ohio. Piano-player. No. 1,390,697; Sept. 13; v. 290; p. 320.
Golden, Daniel J., Brockton, Mass. Sporting-shoe. No. 1,390,698; Sept. 13; v. 290; p. 320.
Goldman, Isaac, assignor to Hyman & Oppenheim, New York, N. Y. Hair-ornament attachment. No. 1,390,778; Sept. 13; v. 290; p. 337.
Golein, Mark, Brooklyn, N. Y. Aeroplane. No. 1,390,901; Sept. 13; v. 290; p. 362.
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Goodman, Joseph, Hays, England. Electrical apparatus having windings. No. 1,390,779; Sept. 13; v. 290; p. 337.
Goodridge, Gilbert W., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric-range switch. No. 1,390,780; Sept. 13; v. 290; p. 337.
Gould, David F., Newark, N. J., assignor to General Lead Batteries Company. Separator for storage batteries and making. No. 1,390,355; Sept. 13; v. 290; p. 251.
Grafton, Charles O. (See Rhenstrom, Anthony, assignor.)
Grasselli Chemical Company, The. (See Sakryd, C. H., and Rosencrans, assignors.)
Gravel, Abundius, assignor to The Willys-Overland Company, Toledo, Ohio. Seating arrangement for coupés. No. 1,390,356; Sept. 13; v. 290; p. 251.
Gray, Edwin, Maplewood, Mo. Weather-shield for spring-shade awnings. No. 1,390,527; Sept. 13; v. 290; p. 286.
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Griffin, Sydney B., Mamaroneck, assignor to T. F. Moore, New York, N. Y. Display devices. No. 1,390,699; Sept. 13; v. 290; p. 321.
Grinham, Frederick, assignor of one-fourth to H. W. Spalding, one-fourth to J. C. Stiles, and one-fourth to G. P. Ward, St. Louis, Mo. Valve-silencer. No. 1,390,529; Sept. 13; v. 290; p. 286.
Grooms, Columbus, East Point, Ga. Balloon-searchlight. No. 1,390,902; Sept. 13; v. 290; p. 362.
Gruber, Martin L., Wernersville, Pa. Tire-carrier. No. 1,390,528; Sept. 13; v. 290; p. 286.
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Hackney, Leslie S. (See Froelich, John, assignor.)
Haines, Clarence S., Indianapolis, Ind. Hose-clamp. No. 1,390,701; Sept. 13; v. 290; p. 321.
Halsley, Charles A., Richmond, Ind. Hog-oiler. No. 1,390,611; Sept. 13; v. 290; p. 303.
Hamachek, Frank, Kewaunee, Wis. Tailings-separator. No. 1,390,781; Sept. 13; v. 290; p. 337.
Hamilton, Moses H., Forrest City, Ark. Air-pump. No. 1,390,782; Sept. 13; v. 290; p. 337.
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Hammond-Howard Manufacturing Company, (no stockholders liability.) (See Hammond, Joseph A., assignor.)
Hammond, John H., Jr., Gloucester, Mass. System for controlling moving bodies by radio energy. No. 1,390,288; Sept. 13; v. 290; p. 238.
Hammond, Joseph A., assignor to Hammond-Howard Manufacturing Company, (no stockholders liability.) Deming, N. Mex. Electric razor. No. 1,390,702; Sept. 13; v. 290; p. 321.
Hanna Furnace Company, The. (See Clark, Wilbur T., assignor.)
Hansen, Niels. (See Ehrenfeld, R., and Hansen.)
Hansen, Oswald H., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Treating substances. No. 1,390,703; Sept. 13; v. 290; p. 321.
Hansen, William A., assignor of one-sixth to R. F. Elvin, one-sixth to A. Lefavor, one-sixth to F. L. Ewing, one-sixth to M. M. Daniels, and one-sixth to J. P. Bowers, Salt Lake City, Utah. Automobile-transportation support. No. 1,390,530; Sept. 13; v. 290; p. 286.
Harbaugh, Charles A., Linwood, Kans. Explosive lock. No. 1,390,704; Sept. 13; v. 290; p. 321.
Harbaugh, Cora, administratrix. (See Harbaugh, John W.)
Harbaugh, John W., deceased, Corydon, Ind.; C. Harbaugh, administratrix. Automobile clutch-stabilizer and control-silencer. No. 1,390,954; Sept. 13; v. 290; p. 373.
Harley, William, Jr., Oak Park, Ill. Sash-lock. No. 1,390,436; Sept. 13; v. 290; p. 267.
Harrington, Joseph J., Philipsburg, Mont. Chuck-pin. No. 1,390,551; Sept. 13; v. 290; p. 291.
Harris, Joseph A., Palmyra, Nebr. Furrow-opener. No. 1,390,437; Sept. 13; v. 290; p. 267.
Harvey, Albert L., Braddock township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,390,552; Sept. 13; v. 290; p. 291.
Hattersley, John M., Birmingham, England. Memorandum or writing appliance for use in connection with telephones. No. 1,390,705; Sept. 13; v. 290; p. 322.
Hausman, Walter J., St. Louis, Mo., assignor to Underwood Typewriter Company, New York, N. Y. Typewriting-machine. No. 1,390,955; Sept. 13; v. 290; p. 373.
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Hayes, Walter A. (See Hayes, George B. and W. A.)
Haylor, William, Heppner, Oreg. Front-wheel steering mechanism for motor-vehicles. No. 1,390,903; Sept. 13; v. 290; p. 362.
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Hazelton, George, Portadown, Ireland. Sliding mechanism. No. 1,390,904; Sept. 13; v. 290; p. 362.
Hazelton, Robert T., Cincinnati, assignor to The Cincinnati Milling Machine Company, Oakley, Cincinnati, Ohio. Machine-tool trip. No. 1,390,706; Sept. 13; v. 290; p. 322.
Head, Ernest C., Van Wert, Ohio, assignor to Colburn Machine Tool Company, Franklin, Pa. Multiplying-gearing. No. 1,390,905; Sept. 13; v. 290; p. 362.
Hearn, Hiram S., and A. E. Perreten, Denver, Colo. Toothpick-dispenser. No. 1,390,553; Sept. 13; v. 290; p. 291.
Hedges, Abraham D., Long Beach, Calif. Folding automobile-top. No. 1,390,554; Sept. 13; v. 290; p. 291.
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Hedges, Abraham D., Long Beach, Calif. Automobile-top. No. 1,390,557; Sept. 13; v. 290; p. 292.
Hellner, Karl, Faiun, Sweden. Rotary boiler. No. 1,390,965; Sept. 13; v. 290; p. 375.
Hendershot, Samuel D., Independence, Calif. Centering device. No. 1,390,906; Sept. 13; v. 290; p. 363.
Henry, Earle G., Newburg, Oreg. Lettering-pen attachment. No. 1,390,290; Sept. 13; v. 290; p. 239.
Hensler, Arthur C., *et al.* (See Evans, Fred, assignor.)
Hering, Carl, Philadelphia, Pa. Method of and apparatus for transmitting heat. No. 1,390,783; Sept. 13; v. 290; p. 338.
Herrington, Claude M., St. Louis, Mo. Package. No. 1,390,784; Sept. 13; v. 290; p. 338.
Hess-Bright Manufacturing Company. See Runge, R. F., and Jackson, assignors.)
Hess, Edward B., Manhattan Beach, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting-machine. No. 1,390,708; Sept. 13; v. 290; p. 322.
Henemier, Robert H., assignor to A. Schrader's Son, Inc, Inc., Brooklyn, N. Y. Dust-cap for tire-valves. No. 1,390,707; Sept. 13; v. 290; p. 322.
Heuser, Herman, Evanston, Ill. Preserving liquid foods. No. 1,390,709; Sept. 13; v. 290; p. 322.
Heuser, Herman, Evanston, Ill. Preparing low-alcoholic beverages. No. 1,390,710; Sept. 13; v. 290; p. 323.
Heuser, Raymond S., Evanston, Ill. Manufacturing cereal beverages. No. 1,390,711; Sept. 13; v. 290; p. 323.
Heyroth, Albert H., Duluth, Minn. Automatic call system for hotels. No. 1,390,907; Sept. 13; v. 290; p. 363.
Hickey, Thomas F., Shrewsbury, Mass. Leather-cutting machine. No. 1,390,612; Sept. 13; v. 290; p. 304.
Hill, Amos D., Lansing, Mich. License-tag holder and means to illuminate same. No. 1,390,291; Sept. 13; v. 290; p. 239.
Hill, Elmer L., Rapelje, Mont. Skid-chain tightener. No. 1,390,613; Sept. 13; v. 290; p. 304.
Hill, George S., Strafford, N. H., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,390,785; Sept. 13; v. 290; p. 338.
Hillsinger, William C. (See Ullmann, W. F., and Hillsinger.)
Himmel, Robert C., Topeka, Ill. Rotary cleaner-carrier. No. 1,390,438; Sept. 13; v. 290; p. 267.
Hinckley, Frank C., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Stop mechanism for talking-machines. No. 1,390,712; Sept. 13; v. 290; p. 323.
Hinckley, Frank C., assignor, by mesne assignments, to Columbia Graphophone Manufacturing Company, Bridgeport, Conn. Stop mechanism for talking-machines. No. 1,390,713; Sept. 13; v. 290; p. 323.
Hodgson, Harold W., Worcester, Mass. Wire-drawing machine. No. 1,390,714; Sept. 13; v. 290; p. 323.
Holley, George M. (See Anderson, Raymond M., assignor.)
Holmes, Edward, assignor to The Willys-Overland Company, Toledo, Ohio. Decking system. No. 1,390,439; Sept. 13; v. 290; p. 268.
Hoover, Alex, Bellefourche, S. D. Phonographic reproducer. No. 1,390,558; Sept. 13; v. 290; p. 292.
Horiuchi, Hirosuke, Taihoku-Cho, Japan. Furnace for burning liquid fuels and pulverulous coal. No. 1,390,715; Sept. 13; v. 290; p. 323.
Horowitz, David. (See Marinsky, Davis, assignor.)
Hosch, Greene C., assignor to The Measuregraph Company, St. Louis, Mo. Measuring-roller. No. 1,390,956; Sept. 13; v. 290; p. 373.
Hosch Mechanisms Corporation. (See Turner, Douglas, assignor.)

Hosch, Walter E., assignor to The Measuregraph Company, St. Louis, Mo. Cloth winding and measuring machine. No. 1,390,957; Sept. 13; v. 290; p. 373.

Howard, Charles P. and F. E., assignors to James L. Howard & Company, Hartford, Conn. Door-holder. No. 1,390,786; Sept. 13; v. 290; p. 338.

Howard, Frank E. (See Howard, C. P. and F. E.)

Howard, James L., & Company. (See Howard, C. P. and F. E., assignors.)

Huey, Harold I., assignor, by mesne assignments, to Sayles Finishing Plants, Inc., Saylesville, R. I. Fabric for linings and other uses. No. 1,390,292; Sept. 13; v. 290; p. 239.

Hulbert, George J., Seattle, Wash. Adjustable saw. No. 1,390,958; Sept. 13; v. 290; p. 374.

Hultquist, Charles A., Los Angeles, Calif. Drilling-machine. No. 1,390,787; Sept. 13; v. 290; p. 338.

Hummel, Charles F., Roselle Park, N. J. Cutting and welding torch. No. 1,390,440; Sept. 13; v. 290; p. 268.

Huntley, Charles L., Milwaukee, Wis., assignor of one-half to J. A. Allen, Oregon City, one-fourth to J. E. Nicholson and one-fourth to J. I. Nicholson, Portland, Oreg. Variable-power hand air-pump. No. 1,390,559; Sept. 13; v. 290; p. 293.

Huntoon, Charles F., Chicago, Ill. Brake-beam. No. 1,390,968; Sept. 13; v. 290; p. 375.

Hupp, Albert, Oak Park, Ill. Spring-support for vehicles. No. 1,390,560; Sept. 13; v. 290; p. 293.

Hurley, Joseph E., Jeannette, Pa. Glass-tank furnace. No. 1,390,614; Sept. 13; v. 290; p. 304.

Huyler's. (See Bonesteel, Blanche, assignor.)

Hyman & Oppenheim. (See Goldman, Isaac, assignor.)

Icy-Hot Bottle Company. (See Lindahl, Erick P., assignor.)

Ikeda, Sumiyuki, assignor to Tomoda Goshi Kaisha, Tokyo, Japan. Preparing gelatin tubes for medicinal purposes. No. 1,390,788; Sept. 13; v. 290; p. 339.

Indiana Lamp Company. (See Foster, Harry C., assignor.)

Industrial Research Laboratories, The. (See Gerlach, O., and Lihme, assignors.)

Ingersoll-Rand Company. (See Stage, Harold I., assignor.)

Interwoven Mills, The. (See Smith, William E., assignor.)

Iverson, Richard M., Rock Island, Ill. Plow. No. 1,390,615; Sept. 13; v. 290; p. 304.

Jackson, Everett B., Colorado Springs, Colo. Motor-vehicle. No. 1,390,441; Sept. 13; v. 290; p. 268.

Jackson, Henry W. (See Runge, R. F., and Jackson.)

Jacobs, St. Charles, Brooklyn, N. Y. Amusement device. No. 1,390,789; Sept. 13; v. 290; p. 339.

Jaeger, Gebhard, Columbus, Ohio. Concrete-mixer. No. 1,390,442; Sept. 13; v. 290; p. 268.

Janette, John T., Chicago, Ill. Bearing-lubricator. No. 1,390,443; Sept. 13; v. 290; p. 268.

Jaffe, Harry, assignor to Jaffe Radiator Company, Chicago, Ill. Radiator for motor-vehicles. No. 1,390,616; Sept. 13; v. 290; p. 304.

Jaffe Radiator Company. (See Jaffe, Harry, assignor.)

Jay, Webb, Chicago, Ill. Suction-actuated pumping device. No. 1,390,617; Sept. 13; v. 290; p. 305.

Jeffs, Selma W., Santa Monica, Calif. Support for infants' bathtubs. No. 1,390,444; Sept. 13; v. 290; p. 268.

Jenkins, Charles F., Washington, D. C. Producing light-beams. No. 1,390,445; Sept. 13; v. 290; p. 269.

Jerdone, Francis, Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Fuel-reserve-supply system. No. 1,390,446; Sept. 13; v. 290; p. 269.

Jewett Phonograph Company. (See Belt, Raymond T., assignor.)

Jennison, Lyman E., West Springfield, Mass. Micrometer height-gage. No. 1,390,618; Sept. 13; v. 290; p. 305.

Jobe, Fred D., Roundup, Mont. Cooking vessel. No. 1,390,908; Sept. 13; v. 290; p. 363.

Johns, George M., assignor to Machine Products Company, St. Louis, Mo. Speed-governor for electric motors. No. 1,390,619; Sept. 13; v. 290; p. 305.

Johnson, August G., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Wire-fence machine. No. 1,390,293; Sept. 13; v. 290; p. 239.

Johnson, Jack W., Winnetka, Ill. Carbureter. No. 1,390,790; Sept. 13; v. 290; p. 339.

Johnson, Olof H., Seattle, Wash. Wheel construction. No. 1,390,909; Sept. 13; v. 290; p. 363.

Johnston, Millard L., Utica, N. Y. Gun-barrel-mussle steadier. No. 1,390,447; Sept. 13; v. 290; p. 269.

Jones, Joseph F., La Grange, Ill. Velocipede. No. 1,390,294; Sept. 13; v. 290; p. 239.

Jones, Orton R., Monrovia, Calif. Check-protector. No. 1,390,620; Sept. 13; v. 290; p. 305.

Jones, Omar G., *et al.* (See Threet, Preston E., assignor.)

Jordan, Augustus T., London, England. Talking-machine. No. 1,390,910; Sept. 13; v. 290; p. 364.

Joyce, Roy E., Bartlesville, Okla. Power-transmitting mechanism for motor-vehicles. No. 1,390,716; Sept. 13; v. 290; p. 324.

Judge, Joseph, Pittston, Pa. Steaming-crate. No. 1,390,911; Sept. 13; v. 290; p. 364.

Kaup, Harry E., Bellevue, and R. J. Wilcox, Carnegie, assignors to Pressed Steel Car Company, Pittsburgh, Pa. Discharge-door-operating mechanism. No. 1,390,357; Sept. 13; v. 290; p. 251.

Keiper, Henry B., deceased; L. R. Keiper, executrix; N. K. Long, and G. Hammond, executors; assignors to National Bearings Company, Lancaster, Pa. Thrust ball-bearing. No. 1,390,717; Sept. 13; v. 290; p. 324.

Keiper, Lucy R., *et al.*, executors. (See Keiper, Henry B.)

Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Oil-gage. No. 1,390,358; Sept. 13; v. 290; p. 252.

Kehoe, Thomas J., assignor to The Willys-Overland Company, Toledo, Ohio. Dimmer. No. 1,390,359; Sept. 13; v. 290; p. 252.

Kelly, John H., New Orleans, La. Illuminated sign. No. 1,390,561; Sept. 13; v. 290; p. 293.

Kelly, Leo I., Detroit, Mich. Power plant. No. 1,390,562; Sept. 13; v. 290; p. 293.

Kern, Peter, Montreal, Quebec, assignor of one-half to J. R. Booth, Jr., Ottawa, Ontario, Canada. Automobile-hood. No. 1,390,295; Sept. 13; v. 290; p. 240.

Kerr, Howard J., assignor to The Babcock & Wilcox Company, Bayonne, N. J. Water-back for stokers. No. 1,390,791; Sept. 13; v. 290; p. 339.

King, Clifford G., Providence, assignor to himself and A. I. Clark, Cranston, R. I. Bracelet. No. 1,390,360; Sept. 13; v. 290; p. 252.

King, Clifford G., Providence, assignor to himself and A. I. Clark, Cranston, R. I. Latch for bracelets and the like. No. 1,390,361; Sept. 13; v. 290; p. 252.

Kirkwood, Charles A., Chicago, Ill. Gas-heater. No. 1,390,296; Sept. 13; v. 290; p. 240.

Kitterman, Jesse C., Croydon, Ind. Wagon-tongue. No. 1,390,792; Sept. 13; v. 290; p. 339.

Klingbeil, Gottlieb L. E., Omaha, Nebr. Extension adjustable handle. No. 1,390,621; Sept. 13; v. 290; p. 306.

Koehler, Emma M., Evansville, Ind. Floral canopy. No. 1,390,566; Sept. 13; v. 290; p. 294.

Koenigkramer, Frank. (See McManis, J. V., and Koenigkramer.)

Kohlins, William N., Newark, N. J. Paper-filler and making the same. No. 1,390,297; Sept. 13; v. 290; p. 240.

Kolmer, John A. (See Schamberg, J. F., Raiziss, and Kolmer.)

Knoell, Walter E., Tacoma, Wash. Aeroplane-wing. No. 1,390,563; Sept. 13; v. 290; p. 293.

Knorr, Frederick J., assignor to M. R. Elkin, New York, N. Y. Hose-clamp. No. 1,390,564; Sept. 13; v. 290; p. 293.

Knowles, John, New Britain, Conn. Frame for planes. No. 1,390,565; Sept. 13; v. 290; p. 293.

Krakau, Clarence H., Chicago, Ill. Uncoupling mechanism. No. 1,390,298; Sept. 13; v. 290; p. 240.

Krieger, Peter, Sr., Paterson, N. J. Vehicle. No. 1,390,567; Sept. 13; v. 290; p. 294.

Krueger, Adolph F., Milwaukee, Wis. Method of and apparatus for removing snow. No. 1,390,622; Sept. 13; v. 290; p. 306.

Kuehn, Paul O., South Bend, Ind. Book-index. No. 1,390,623; Sept. 13; v. 290; p. 306.

Kyle, Jesse T., and V. W. Russell, Brea, Calif. Oil-trap for wells and pipe-lines. No. 1,390,793; Sept. 13; v. 290; p. 340.

La France, Richard, assignor to The Owens Bottle Machine Company, Toledo, Ohio. Apparatus for manipulating hot glass. No. 1,390,448; Sept. 13; v. 290; p. 269.

Lake, George L., assignor of one-half to E. C. Eighmy, New Market, Iowa. Automobile-radiator. No. 1,390,794; Sept. 13; v. 290; p. 340.

Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. System of electrical ship propulsion. No. 1,390,624; Sept. 13; v. 290; p. 306.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car-truck arrangement. No. 1,390,362; Sept. 13; v. 290; p. 252.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Car-truck construction. No. 1,390,449; Sept. 13; v. 290; p. 269.

Lamont, John A., assignor to American Steel Foundries, Chicago, Ill. Railway-car-truck construction. No. 1,390,450; Sept. 13; v. 290; p. 270.

Lancaster Automatic Machine Company. (See Paul, Edward B., assignor.)

Lange, Berthold A., St. Louis, Mo. Apparatus for forming box-corners by creasing. No. 1,390,795; Sept. 13; v. 290; p. 340.

Langford, Frank, Eureka, Calif. Production of tannic acid and extracts. No. 1,390,796; Sept. 13; v. 290; p. 340.

Lavagetto, Joseph T. L., Portland, Oreg. Wooden ship construction. No. 1,390,912; Sept. 13; v. 290; p. 364.

Lawler, George, Auckland, New Zealand. Heel-grip for shoes. No. 1,390,568; Sept. 13; v. 290; p. 294.

Lea, Charles W., Toronto, Ontario, Canada. Hoe-handle. No. 1,390,797; Sept. 13; v. 290; p. 340.

Leahy, Herbert V., Los Angeles, Calif. Furnace. No. 1,390,798; Sept. 13; v. 290; p. 340.

Le Cain, John A., Malden, Mass. Internal valve-gear for steam engines. No. 1,390,625; Sept. 13; v. 290; p. 307.

Lee, Albert P., assignor to Lee Trailer & Body Company, Chicago, Ill. Drawbar mechanism. No. 1,390,451; Sept. 13; v. 290; p. 270.

Lee, Henry N., Creston, Iowa. Automobile-lock. No. 1,390,913; Sept. 13; v. 290; p. 364.

Lee Trailer & Body Company. (See Lee, Albert P., assignor.)

Lee Trailer & Body Co. (See Byron, Orra E., assignor.)

Leece, Bennett M., assignor to The Leece-Neville Company, Cleveland, Ohio. Dynamo-electric-machine control. No. 1,390,452; Sept. 13; v. 290; p. 270.

Leece-Neville Company, The. (See Leece, Bennett M., assignor.)

Leet, Albert, Bixby, Okla. Display-rack. No. 1,390,969; Sept. 13; v. 290; p. 375.

Lefavor, Alfred, *et al.* (See Hansen, William A., assignor.)

Lefever, Charles F., assignor to Daisy Manufacturing Co., Plymouth, Mich. Air-gun. No. 1,390,569; Sept. 13; v. 290; p. 294.

Lewis, Thomas, and F. C. Scrimger, Pontiac, Mich. Indicator. No. 1,390,570; Sept. 13; v. 290; p. 294.

Library Bureau. (See Ohnstrand, Enoch, assignor.)

Liff, Madison M., Los Angeles, Calif. Pump. No. 1,390,453; Sept. 13; v. 290; p. 270.

Lihme, Christian B. (See Gerlach, O., and Lihme.)

Lindahl, Erick P., assignor to Icy-Hot Bottle Company, Cincinnati, Ohio. Method of and apparatus for manufacturing glassware. No. 1,390,626; Sept. 13; v. 290; p. 307.

Lindahl, Erick P., assignor to Icy-Hot Bottle Company, Cincinnati, Ohio. Chucking mechanism. No. 1,390,627; Sept. 13; v. 290; p. 307.

Lindsey, Harry W., Jr., assignor to The Willys-Overland Company, Toledo, Ohio. Spring suspension for vehicles. No. 1,390,863; Sept. 13; v. 290; p. 252.

Link Belt Company. (See Pratt, Howell D., assignor.) (Reissue.)

Lippmann, Julius D., assignor to E. Weinheim, New York, N. Y. Micrometer-adjuster for embossing-presses. No. 1,390,799; Sept. 13; v. 290; p. 341.

Litchfield, Isaac W., Newtonville, Mass. Water-excluding device for bathing-caps. No. 1,390,628; Sept. 13; v. 290; p. 308.

Little, Charles H., Chicago, Ill. Rail-joint. No. 1,390,914; Sept. 13; v. 290; p. 364.

Littleford, George, Fort Thomas, Ky. Feeding mechanism. No. 1,390,800; Sept. 13; v. 290; p. 341.

Lockwood, Nelson A., Ogden, Utah. Filter-press equipment. No. 1,390,631; Sept. 13; v. 290; p. 287.

Loffler, Edmund. (See de Lukacsevics, C., and Loffler.)

Loffler, Edmund. (See de Lukacsevics, Charles, assignor.)

London General Omnibus Company, The. (See Gage, Samuel, assignor.)

Long, Nancy K., *et al.*, executors. (See Keiper, Henry B.)

Longmesser, Paul C., assignor to William Mann Company, Philadelphia, Pa. Safety-check. No. 1,390,959; Sept. 13; v. 290; p. 374.

Loseky, Joseph, Cleveland, Ohio. Safe. No. 1,390,571; Sept. 13; v. 290; p. 295.

Loth, Julius A., Utrecht, Netherlands. Artificial limb and the like. No. 1,390,915; Sept. 13; v. 290; p. 365.

Lover, William E., Findlay, Ohio. Integral envelop and box. No. 1,390,718; Sept. 13; v. 290; p. 324.

Lowthrop, William M., Summertown, Tenn. Poultry-nest. No. 1,390,916; Sept. 13; v. 290; p. 365.

Lozano, Joaquin G., Madrid, Spain. Thermo-electrical apparatus for boiling and heating purposes. No. 1,390,719; Sept. 13; v. 290; p. 324.

Luce, Louis L., and L. Mattson, Aberdeen, Wash. Internal-combustion engine. No. 1,390,572; Sept. 13; v. 290; p. 295.

Ludeman, Oscar H., Hartford, Conn. Heat and low-water indicator. No. 1,390,532; Sept. 13; v. 290; p. 287.

Luling, Emilio, and M. Baroni, Milan, Italy. Beam, girder, or the like. No. 1,390,364; Sept. 13; v. 290; p. 253.

Lummis, Charles W., assignor to Morgan Construction Company, Worcester, Mass. Gas-producer-regulating mechanism. No. 1,390,454; Sept. 13; v. 290; p. 270.

Lusenberg, Edward A., San Antonio, Tex. Stand for rolled goods. No. 1,390,299; Sept. 13; v. 290; p. 240.

Lyndon, Lamar, assignor to Edison Storage Battery Company, West Orange, N. J. Electrode-plate for storage batteries. No. 1,390,629; Sept. 13; v. 290; p. 308.

Lyon, Frederick C., Sr., Horseheads, N. Y. Wrench. No. 1,390,917; Sept. 13; v. 290; p. 365.

Lyons, William A., Litchfield, Minn. Time-indicating device. No. 1,390,801; Sept. 13; v. 290; p. 341.

M-V All Weather Train Controller Company. (See Minnick, Alfred, assignor.)

McBride, Paul J., *et al.* (See Cushing, William H., assignor.)

McCollom, William J., Clifton, N. J. Ash-pan. No. 1,390,455; Sept. 13; v. 290; p. 271.

McCord, Harry C., Baltimore, Md. Folding crib. No. 1,390,630; Sept. 13; v. 290; p. 308.

McElligott, Harry A., Minneapolis, Minn. Calendar-fob. No. 1,390,300; Sept. 13; v. 290; p. 241.

McElroy, Karl P., assignor to Ferro Chemicals, Inc., Washington, D. C. Making ammonia. No. 1,390,533; Sept. 13; v. 290; p. 287.

McFarland, Daniel, San Francisco, Calif. Moldboard-anchor. No. 1,390,918; Sept. 13; v. 290; p. 365.

McKay, Peter M., London, England. Artificial hand. No. 1,390,802; Sept. 13; v. 290; p. 341.

McKesky, Walter W., Houston, Tex. Signal for vehicles. No. 1,390,573; Sept. 13; v. 290; p. 295.

McKiernan-Terry Drill Company. (See Riker, Malcolm D., assignor.)

McKinley, Charles W., assignor to The Willys-Overland Co., Toledo, Ohio. Spring suspension for vehicles. No. 1,390,365; Sept. 13; v. 290; p. 253.

McManis, John V., Dayton, and F. Koenigkramer; said Koenigkramer assignor to said McManis, Cincinnati, Ohio. Treatemnt-table. No. 1,390,301; Sept. 13; v. 290; p. 241.

Machine Products Company. (See Johns, George M., assignor.)

Mackenzie, Roderick J., Cambridge, assignor to Crocker Pen Company, Boston, Mass. Fountain-pen. No. 1,390,366; Sept. 13; v. 290; p. 253.

Maeda, Uichiro, Los Angeles, Calif. Skirt-templet. No. 1,390,534; Sept. 13; v. 290; p. 287.

Maier, Clarence H., New York, N. Y. Music-sheet-advertising device. No. 1,390,535; Sept. 13; v. 290; p. 288.

Malitch, Charles, Hamilton, Ohio. Rail-chair. No. 1,390,919; Sept. 13; v. 290; p. 365.

Mann, Pearly W., Minneapolis, Minn. Combination auto-truck and wagon dump. No. 1,390,368; Sept. 13; v. 290; p. 253.

Mann, William, Company. (See Longmesser, Paul C., assignor.)

Manning, Sanford E., West Columbia, Tex. Means for moving the drive-shafts of steam-engines from dead-centers. No. 1,390,536; Sept. 13; v. 290; p. 288.

Maranville, Harvey F., assignor to The Miller Rubber Company, Akron, Ohio. Mandrel. No. 1,390,302; Sept. 13; v. 290; p. 241.

Maranville, Harvey F., assignor to The Miller Rubber Company, Akron, Ohio. Air-bag for pneumatic-tire manufacture. No. 1,390,303; Sept. 13; v. 290; p. 241.

Margo, Arthur, Nantes, France. Furnace for burning factory refuse. No. 1,390,304; Sept. 13; v. 290; p. 241.

Marinsky, Davis, New York, assignor to D. Horowitz, Brooklyn, N. Y. Hair-curling device. No. 1,390,803; Sept. 13; v. 290; p. 432.

Markem Machine Company. (See Robbins, Charles F., assignor.)

Marks, Isidore, Boston, Mass. Horn-reed. No. 1,390,305; Sept. 13; v. 290; p. 241.

Marland Refining Company. (See Rial, Wirt D., assignor.)

Marshall, Charles H., assignor to Marshall Manufacturing Company, Omaha, Nebr. Cherry-pitting machine. No. 1,390,804; Sept. 13; v. 290; p. 342.

Marshall Manufacturing Company. (See Marshall, Charles H., assignor.)

Marye, Clifford P., Chicago, Ill., assignor to Marye Safety Nut Corporation. Making bolt-nuts. No. 1,390,631; Sept. 13; v. 290; p. 308.

Marye Safety Nut Corporation. (See Marye, Clifford P., assignor.)

Mason, Charles T., Sumter, S. C., assignor to Splitdorf Electrical Company, Newark, N. J. Ignition apparatus for internal-combustion engines. No. 1,390,574; Sept. 13; v. 290; p. 295.

Massey, John R., New Brunswick, N. J., assignor, by mesne assignments, to Vitrocell Company, Columbus, Ohio. Coating-machine. No. 1,390,367; Sept. 13; v. 290; p. 253.

Matthes, Samuel S., assignor to The Ohio Brass Company, Mansfield, Ohio. Trolley-wire clamp. No. 1,390,369; Sept. 13; v. 290; p. 254.

Mattson, Leroy. (See Luce, Louis L., assignor.)

Mauclaire, Louis, A. Garbarini, and G. Gautier, Paris, France. Electric-arc lamp with rotary arc. No. 1,390,456; Sept. 13; v. 290; p. 271.

Max Ams Machine Company, The. (See Brenzinger, Julus, assignor.)

Mayhew, Edward A., assignor to Union Metal Products Company, Chicago, Ill. Car-door fastener. No. 1,390,306; Sept. 13; v. 290; p. 242.

Measuregraph Company, The. (See Hosch, Greene C., assignor.)

Measuregraph Company, The. (See Hosch, Walter E., assignor.)

Measuregraph Company, The. (See Turner, Douglas, assignor.)

Measuregraph Company, The. (See Wheeler, John L., assignor.)

Mechano Gear Shift Company. (See Richardson, Bayard E., assignor.)

Mercer, Joseph H., *et al.* (See Cushing, William H., assignor.)

Mester, Robert H., Webster Groves, Mo. Protector for desks. No. 1,390,370; Sept. 13; v. 290; p. 254.

Metal Saw & Machine Co. (See Stowell, Byron F., assignor.)

Metzger, Myer, Chicago, Ill. Display and vending case. No. 1,390,632; Sept. 13; v. 290; p. 308.

Meyer, Albert J. (See Mott, A. C., Jr., and Meyer.)

Meyer, Carl, Toledo, Ohio. Wrench. No. 1,390,371; Sept. 13; v. 290; p. 254.

Michalesak, Joseph, Highland Beach, N. J. Animal-trap. No. 1,390,805; Sept. 13; v. 290; p. 342.

Michigan Steel Tube Products Company. (See Berg, Simon, assignor.)

Milhaupt, Edgar A., Appleton, Wis. Bumper-bracket. No. 1,390,633; Sept. 13; v. 290; p. 309.

Miller, Albert H., Miltona, Minn. Grain-separator. No. 1,390,806; Sept. 13; v. 290; p. 342.

Miller, Carl P., Fargo, N. D. Hat-hanger. No. 1,390,372; Sept. 13; v. 290; p. 254.

Miller, Frank E., Durand, Mich. Cylinder-head remover. No. 1,390,960; Sept. 13; v. 290; p. 374.
Miller, Frederick H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electrolytic cell. No. 1,390,575; Sept. 13; v. 290; p. 295.
Miller Rubber Company, The. (See Maranville, Harvey F., assignor.)
Miller, Theodore. (See Webb, C. M., and Miller.)
Milwaukee Reliance Boiler Works. (See Bassett, Alvin J., assignor.)
Minnick, Alfred, Newark, N. J., assignor to M-V All Weather Train Controller Company, Wilmington, Del. Demountable rim. No. 1,390,576; Sept. 13; v. 290; p. 296.
Mintz, Harry, Boston, Mass. Portable support. No. 1,390,807; Sept. 13; v. 290; p. 342.
Molenda, Henry, Ollie, Mont. Combination device. No. 1,390,307; Sept. 13; v. 290; p. 242.
Montpetit, Joseph R., and J. S. Adamson, Ottawa, Ontario, Canada. Composition of matter designed for use on shoes and boots and on leather articles generally. No. 1,390,537; Sept. 13; v. 290; p. 288.
Moon Brothers Manufacturing Company. (See Drew, John W., assignor.)
Moore, George E., Paterson, N. J. Artificial limb. (Reissue.) No. 15,192; Sept. 13; v. 290; p. 377.
Moore, T. Fred. (See Griffin, Sydney B., assignor.)
Moore, T. Fred. (See Wadsworth, Charles W., assignor.)
Moran, William E., Detroit, Mich. Apparatus for thawing frozen ground. No. 1,390,457; Sept. 13; v. 290; p. 271.
Moranic, Joseph, *et al.* (See Swintl, Alix., assignor.)
Moree, Edward A., New York, N. Y. Fish-lure. No. 1,390,458; Sept. 13; v. 290; p. 271.
Morgan Construction Company. (See Lummis, Charles W., assignor.)
Morrill, Alfred R., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Inseam-sewing machine. No. 1,390,808; Sept. 13; v. 290; p. 343.
Mosher, Ralph E., Aurora, N. Y. Detachable lining for mud-guards. No. 1,390,634; Sept. 13; v. 290; p. 309.
Moskowitz, Morris, Montclair, N. J. Brake mechanism for automobiles. No. 1,390,373; Sept. 13; v. 290; p. 254.
Moss, Leopold. (See Wayda, Peter, assiggnor.)
Mott, Abram C., Jr., and A. J. Meyer, assignor to Abram Cox Stove Company, Philadelphia, Pa. Gas-range. No. 1,390,809; Sept. 13; v. 290; p. 343.
Mullaney, Benjamin F., assignor to J. Purdon, trustee, Boston, Mass. Storage-building. No. 1,390,635; Sept. 13; v. 290; p. 309.
Muns, Mary F., Milwaukee, Wis. Washing apparatus. No. 1,390,636; Sept. 13; v. 290; p. 309.
Murphy, Walter P., New York, N. Y. Corrugated sheet-metal car end. (Reissue.) No. 15,193; Sept. 13; v. 290; p. 377.
Murray, Howard J., Brooklyn, N. Y., and W. S. Rugg, Pittsburgh, Pa. Yieldable gearing. No. 1,390,538; Sept. 13; v. 290; p. 288.
Nagy, Charles K., Gainesville, N. Y. Power transmission. No. 1,390,920; Sept. 13; v. 290; p. 366.
Nagy, Louis, Esterhazy, Saskatchewan, Canada. Piston-ring. No. 1,390,577; Sept. 13; v. 290; p. 296.
Nakamura, Goken. (See Araki, Kichijiro, assignor.)
National Bearings Company. (See Kelper, Henry B., assignor.)
National Biscuit Company. (See Beers, F., and Powell, assignors.)
National Carbon Company. (See French, H. F., and Benner, assignors.)
Nelson, Olof, assignor to The Robbins Company, Attleboro, Mass. Name-plate attachment. No. 1,390,637; Sept. 13; v. 290; p. 309.
New Jersey Patent Company. (See Cox, Harold N., assignor.)
Nichols, William H., Lanesville, Ill. Tractor gang-plow. No. 1,390,578; Sept. 13; v. 290; p. 296.
Nicholson, Edward, *et al.* (See Huntley, Charles L., assignor.)
Nicholson, Joseph I., *et al.* (See Huntley, Charles L., assignor.)
Niles, Edith L., Delaware, Ohio. Sectional furniture. No. 1,390,374; Sept. 13; v. 290; p. 255.
Norleen, David E., Abbotsford, Wis. Apparatus for pasteurizing whey. No. 1,390,308; Sept. 13; v. 290; p. 242.
Norquist, Ralph A., Jamestown, N. Y. Combination hinge and lid-support. No. 1,390,579; Sept. 13; v. 290; p. 296.
Norton Company. (See Fraser, Warren F., assignor.) (Reissue.)
Notala Verkstads Nya Aktiebolag. (See Von Porat, Karl H. V., assignor.)
Offenhäuser, Fritz, Tarrytown, N. Y. Forced articles and process and apparatus for making the same. No. 1,390,375; Sept. 13; v. 290; p. 255.
Oglesby, Richard A., assignor to Quick Action Ignition Company, South Bend, Ind. Automatic speed-governor for internal-combustion engines. No. 1,390,376; Sept. 13; v. 290; p. 255.
Ohio Brass Company, The. (See Mathes, Samuel S., assignor.)
Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Sectional filing-case. No. 1,390,377; Sept. 13; v. 290; p. 255.
Olevin, Adolph, Detroit, Mich. Loom-plate and hanger. No. 1,390,921; Sept. 13; v. 290; p. 366.
O'Neill, Frank, Jr., Philadelphia, Pa. Fibrous-plant-decorticating machine. No. 1,390,922; Sept. 13; v. 290; p. 366.
Osborn, Alden E., New York, N. Y. Internal-combustion engine. No. 1,390,810; Sept. 13; v. 290; p. 343.
Osborne, Harold S., New York, N. Y., assignor to American Telephone and Telegraph Company. Means for reducing interference. No. 1,390,580; Sept. 13; v. 290; p. 296.
Osborne, John W. (See Davis, J. W., and Osborne.)
Osman, Ralph T., assignor of one-half to E. W. Sparling, Ashland, Wis. Internal-combustion engine. No. 1,390,811; Sept. 13; v. 290; p. 343.
Ott, Erwin, assignor to Prof. Dr. E. H. Faust, Basel, Switzerland. Explosive and making same. No. 1,390,378; Sept. 13; v. 290; p. 256.
Ottenheimer, Reuben E., Baltimore, Md. Refrigerator-showcase. No. 1,390,812; Sept. 13; v. 290; p. 344.
Owens Bottle Machine Company, The. (See La France, Richard, assignor.)
Palmer, Alva L., Jamaica, N. Y. Cover-removing device for furnaces. No. 1,390,581; Sept. 13; v. 290; p. 296.
Parker, John, Philadelphia, Pa. Suspension-bearing. No. 1,390,582; Sept. 13; v. 290; p. 297.
Patin, Thaddeus, Brea, Calif. Roller-bit. (Reissue.) No. 15,194; Sept. 13; v. 290; p. 377.
Paul, Edward B., assignor to Lancaster Automatic Machine Company, Lancaster, Pa. Coin-handling apparatus. No. 1,390,583; Sept. 13; v. 290; p. 297.
Paul, Edward B., assignor to Lancaster Automatic Machine Company, Lancaster, Pa. Coin-handling apparatus. No. 1,390,584; Sept. 13; v. 290; p. 297.
Payne, Frank E., Glencoe, Ill. Means for catching and restoring fluid-leakage. No. 1,390,379; Sept. 13; v. 290; p. 256.
Pedersen, John D., Jackson, Wyo. Firearm. No. 1,390,380; Sept. 13; v. 290; p. 256.
Penney, Sydney, London, England. Wheel for road-vehicles. No. 1,390,970; Sept. 13; v. 290; p. 376.
Pepe, Emidio, Derby, Conn. Toy. No. 1,390,923; Sept. 13; v. 290; p. 366.
Perkins, Roy F., Middleboro, Mass. Wall-bracket. No. 1,390,539; Sept. 13; v. 290; p. 288.
Perreten, Arnold E. (See Hearn, H. S., and Perreten.)
Perrow, James S., Altavista, assignor of one-third to J. E. Brochu, Esmont, Va. Furnace. No. 1,390,309; Sept. 13; v. 290; p. 242.
Perry & Webster. (See Webster, Paul W., assignor.)
Petsche, Gustav B., Yonkers, N. Y. Rotary compressor. No. 1,390,585; Sept. 13; v. 290; p. 297.
Petsche, Gustav B., Yonkers, N. Y. Rotary compressor. No. 1,390,586; Sept. 13; v. 290; p. 298.
Peyré, Jules, San Francisco, Calif. Vehicle direction-indicator. No. 1,390,381; Sept. 13; v. 290; p. 256.
Phillips, William, Auburn, Ill. Needle. No. 1,390,924; Sept. 13; v. 290; p. 366.
Pichler, Stephen, Detroit, Mich. Device for testing inaccuracies in cams. No. 1,390,540; Sept. 13; v. 290; p. 288.
Pittsburgh Steel Company. (See Johnson, August G., assignor.)
Plumer, James T., Detroit, Mich. Sprayer. No. 1,390,310; Sept. 13; v. 290; p. 242.
Pope, Leslie S., Raymond, Wash. Gin-cleaner. No. 1,390,638; Sept. 13; v. 290; p. 309.
Porter, James S., Buffalo, N. Y. Machine for cleaning and treating streets. No. 1,390,639; Sept. 13; v. 290; p. 310.
Posselt, Otto W. F., New York, N. Y. Collansible umbrella. No. 1,390,382; Sept. 13; v. 290; p. 256.
Potez, Henry C. A., Aubervilliers, France. Combustion-motor. No. 1,390,926; Sept. 13; v. 290; p. 367.
Powell, George D., McKenzie, Tenn. Planter and fertilizer-distributer. No. 1,390,383; Sept. 13; v. 290; p. 257.
Powell, Howard I. (See Beers, F., and Powell.)
Powers, Henry K., New Kensington, Pa. Combined antiseptic case and surgical knife. No. 1,390,720; Sept. 13; v. 290; p. 324.
Pratt, Howell D., Philadelphia, Pa., assignor to Link-Belt Company, Chicago, Ill. Machine for cleaning railway-ballast. (Reissue.) No. 15,195; Sept. 13; v. 290; p. 378.
Pressed Steel Car Company. (See Blest, Minot C., assignor.)
Pressed Steel Car Company. (See Kaup, H. E., and Wilcox, assignors.)
Purdon, James, trustee. (See Mullaney, Benjamin F., assignor.)
Putnam, Parker A., Tintah, Minn. Harvester. No. 1,390,813; Sept. 13; v. 290; p. 244.
Quick Action Ignition Company. (See Oglesby, Richard A., assignor.)
Quick, Charles F., Dallas, Tex. Elevator-controlling device. No. 1,390,721; Sept. 13; v. 290; p. 325.
Rae, William C. (See Van Sandt, R., and Williams, assignors.)
Raisiss, George W. (See Schamberg, J. F., Raisiss, and Kolmer.)

Rainke, Charles W., Brooklyn, N. Y. Illuminated reflecting-sign. No. 1,390,459; Sept. 13; v. 290; p. 271.
Ramsaur, Thomas A., Fayetteville, N. C. Glare-shield. No. 1,390,384; Sept. 13; v. 290; p. 257.
Randall, Richard H., assignor of one-half to A. E. Gooch, Brockton, Mass. Actuating means for fuel-injector plungers. No. 1,390,541; Sept. 13; v. 290; p. 289.
Rasmussen, Andrew, Jr., Salt Lake City, Utah. Combined phonograph and picture-projector. No. 1,390,640; Sept. 13; v. 290; p. 310.
Rateau Battu Smoot Engineering Corporation. (See Smoot, Charles H., assignor.)
Reach, William F., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Ball-marker. No. 1,390,926; Sept. 13; v. 290; p. 367.
Ream, Fred H., Dayton, Ohio. Snubber. No. 1,390,385; Sept. 13; v. 290; p. 257.
Reid, James J., Oakland, Calif. Heating and baking structure. No. 1,390,542; Sept. 13; v. 290; p. 289.
Re Qua, Frederick L., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Current-regulator. No. 1,390,543; Sept. 13; v. 290; p. 289.
Reinheimer, Arthur F., Detroit, Mich. Pool-cue-tip holder. No. 1,390,722; Sept. 13; v. 290; p. 325.
Republic Flow Meters Company. (See Spitzglass, Jacob M., assignor.)
Reuter, Henry C., assignor to Block & Reuter, Chicago, Ill. Stove. No. 1,390,544; Sept. 13; v. 290; p. 289.
Rhenstrom, Anthony, Kenosha, Wis., assignor, by mesne assignments, of one-half to C. O. Grafton, Muncie, Ind. Semi-automatic machine for forming bed-spring fabrics. No. 1,390,814; Sept. 13; v. 290; p. 344.
Rhodes, William A., assignor to American Telephone and Telegraph Company, New York, N. Y. Desk-operator's circuits. No. 1,390,545; Sept. 13; v. 290; p. 290.
Risi, Wirt D., assignor to Marland Refining Company, Ponca City, Okla. Still. No. 1,390,386; Sept. 13; v. 290; p. 257.
Rice, John B., Uniontown, Pa. Luggage-carrier for automobiles. No. 1,390,387; Sept. 13; v. 290; p. 258.
Richardson, Bayard E., assignor to Mechano Gear Shift Company, Grand Rapids, Mich. Differential gearing. No. 1,390,641; Sept. 13; v. 290; p. 310.
Richter, Julius, *et al.* (See Erler, Bruno G., assignor.)
Richman, Walter A., Egg Harbor, N. J. Record-lifting device. No. 1,390,546; Sept. 13; v. 290; p. 290.
Riker, Malcolm D., Dover, N. J., assignor to McKiernan-Terry Drill Company, New York, N. Y. Lifting-jack. No. 1,390,642; Sept. 13; v. 290; p. 311.
Riker, Malcolm D., Dover, N. J., assignor to McKiernan-Terry Drill Company, New York, N. Y. Pile-pulling rig. No. 1,390,643; Sept. 13; v. 290; p. 311.
Ring, Catherine, Detroit, Mich. Combination tail and automobile-license light. No. 1,390,927; Sept. 13; v. 290; p. 367.
Ritchie, Thomas W., Glencoe, assignor to W. C. Ritchie & Company, Chicago, Ill. Manufacturing containers. No. 1,390,644; Sept. 13; v. 290; p. 311.
Ritchie, W. C., & Company. (See Ritchie, Thomas W., assignor.)
Ritter, Edward A., Amherst, assignor to G. B. Bassett, Buffalo, N. Y. Water-meter. No. 1,390,645; Sept. 13; v. 290; p. 311.
Robbins, Charles F., Keene, N. H., assignor to Markem Machine Company, Boston, Mass. Printing-machine. No. 1,390,388; Sept. 13; v. 290; p. 258.
Robbins Company, The. (See Nelson, Olof, assignor.)
Rogers, Harry B. and M. G., London, England. Damper for moistening adhesive cements and the like. No. 1,390,547; Sept. 13; v. 290; p. 296.
Rogers, Maurice G. (See Rogers, Harry B. and M. G.)
Rohwer, Henry, Seattle, Wash. Money-handling machine. No. 1,390,587; Sept. 13; v. 290; p. 298.
Rood, Sigurd, Tacoma, Wash. Wrench. No. 1,390,460; Sept. 13; v. 290; p. 272.
Rosa, Augusto. (See Simonetta, G., and Rosa.)
Rosencrans, Hubert M. (See Sakryd, C. H., and Rosencrans.)
Rosenfeld, Francis M., New York, N. Y., assignor, by mesne assignments, to Diamond Electric Specialties Corporation, Newark, N. J. Lighting device. No. 1,390,389; Sept. 13; v. 290; p. 258.
Rosner, Adolph, assignor to American Bosch Magneto Corporation, Springfield, Mass. Lubricator. No. 1,390,588; Sept. 13; v. 290; p. 298.
Rosner, Rudolf, Chicago, Ill. Electric gas-generator. No. 1,390,646; Sept. 13; v. 290; p. 311.
Ross, Donald W., Joliet, Ill. Milk-strainer. No. 1,390,815; Sept. 13; v. 290; p. 344.
Rothfus, Edward W., assignor to Error-No, Inc., Rochester, N. Y. Copy-holder. No. 1,390,723; Sept. 13; v. 290; p. 325.
Royal Typewriter Company. (See Hess, Edward B., assignor.)
Rudge-Whitworth Limited. (See Blair, William, assignor.)
Ruehl, Edward G., Brentwood, Calif. Toy. No. 1,390,816; Sept. 13; v. 290; p. 344.
Rugg, Walter S. (See Murray, H. J., and Rugg.)
Ruhl, Anthony, Cleveland, Ohio. Arch-support. No. 1,390,817; Sept. 13; v. 290; p. 345.
Rumens, George J., Baltimore, Md. Cooling apparatus for motor-vehicles. No. 1,390,724; Sept. 13; v. 290; p. 325.
Runge, Robert F., and H. W. Jackson, Philadelphia, Pa., assignors to The Hess-Bright Manufacturing Company. Chuck. No. 1,390,961; Sept. 13; v. 290; p. 374.
Russell Sales Co. (See Binder, Russell T., assignor.)
Russell, Vernon W. (See Kyle, J. T., and Russell.)
Ruth, James A., Marion, N. C. Automatically-locked metering door and gate device. No. 1,390,725; Sept. 13; v. 290; p. 326.
Ryan, John W., Springfield, Ill. Tie. No. 1,390,928; Sept. 13; v. 290; p. 367.
Safepack Mills. (See Currier, Andrew E., assignor.)
Sakagami, Sutekichi, Osaka, Japan. Summer-hat. No. 1,390,818; Sept. 13; v. 290; p. 345.
Sakryd, Charles H., and H. M. Rosencrans, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Suspended arsenate of lead and making same. No. 1,390,647; Sept. 13; v. 290; p. 312.
Sakryd, Charles H., and H. M. Rosencrans, assignors to The Grasselli Chemical Company, Cleveland, Ohio. Suspended arsenate of lead and making same. No. 1,390,648; Sept. 13; v. 290; p. 312.
Samain, Pierre, Cusy, France. Gearing. No. 1,390,971; Sept. 13; v. 290; p. 376.
Sametz, Louis, Brooklyn, N. Y. Power-press. No. 1,390,589; Sept. 13; v. 290; p. 298.
Sargent & Company. (See Sargent, Edward R., assignor.)
Sargent & Company. (See Voight, Henry G., assignor.)
Sargent, Edward R., assignor to Sargent & Company, New Haven, Conn. Casket-handle. No. 1,390,461; Sept. 13; v. 290; p. 272.
Saudino, Dominic, New York, N. Y. Ventilated shoe. No. 1,390,929; Sept. 13; v. 290; p. 367.
Saunders, Addison T., Chicopee, Mass., assignor to A. G. Spalding & Bros., Jersey City, N. J. Boot or shoe sole. No. 1,390,462; Sept. 13; v. 290; p. 272.
Sayles Finishing Plants, Inc. (See Huey, Harold I., assignor.)
Schadee, Alice, *et al.* (See Gallagher, G. S., and Schadee, assignors.) (Reissue.)
Schadee, Gustav. (See Gallagher, G. S., and Schadee.) (Reissue.)
Schrader's, A., Son. (See Henemier, Robert H., assignor.)
Schamberg, Jay F., G. W. Raiziss, and J. A. Kolmer, assignors to Dermatological Research Laborstories, Philadelphia, Pa. Oxy-mercury nitrophenolate. No. 1,390,972; Sept. 13; v. 290; p. 376.
Schelwer, Albert T. and D. Ferguson, Erie, Pa. Shears-grinder. No. 1,390,726; Sept. 13; v. 290; p. 326.
Schenkel, Moritz, Charlottenburg, near Berlin, Germany, assignor to Siemens Schuckertwerke, G. m. b. H., Berlin, Germany. System of transforming direct current into alternating current. No. 1,390,727; Sept. 13; v. 290; p. 326.
Schloss, Meyer W., New York, N. Y., assignor to Treo Company, Inc. Elastic Fabric. (Reissue.) No. 15,196; Sept. 13; v. 290; p. 378.
Schoenhut, A., Company. (See Schoenhut, Harry E., assignor.)
Schoenhut, Harry E., assignor to The A. Schoenhut Company, Philadelphia, Pa. Doll. No. 1,390,820; Sept. 13; v. 290; p. 345.
Schonitzer, Rudolph I., Detroit, Mich., assignor of one-third to J. K. Williams, Springfield, Ohio. Combined shipping-crate and table. No. 1,390,728; Sept. 13; v. 290; p. 326.
Schubert, Hermann J., Hackensack, N. J. Measuring and molding device. No. 1,390,590; Sept. 13; v. 290; p. 299.
Scott, Richard C., Chicago, Ill. Foldable socket-wrench. No. 1,390,463; Sept. 13; v. 290; p. 272.
Scott, Thomas T., Youngstown, Ohio. Machine for repairing the linings of furnaces. No. 1,390,930; Sept. 13; v. 290; p. 368.
Scranton Glass Instrument Company. (See Amerman, Ralph A., assignor.)
Scrimger, Franklin C. (See Lewis, T., and Scrimger.)
Scullin Steel Co. (See Doerr, Harry E., assignor.)
Seals, Rufus K., California, Pa. Angular measuring instrument. No. 1,390,821; Sept. 13; v. 290; p. 345.
Seaman, Earnest S. (See Wilson, E. M., and Seaman.)
Senstius, Antoine G., assignor to The Willys-Overland Company, Toledo, Ohio. Propeller-shaft mounting. No. 1,390,464; Sept. 13; v. 290; p. 272.
Sentrop, Johannes T., Jr., Montreal, Quebec, Canada. Cycle. No. 1,390,822; Sept. 13; v. 290; p. 345.
Shafer, Carl R., Detroit, Mich. Hair-cutting gage. No. 1,390,465; Sept. 13; v. 290; p. 273.
Shamberger, John P., Baltimore, Md. Stem and bit locking device. No. 1,390,931; Sept. 13; v. 290; p. 368.
Sharp, Lee C., Plattsmouth, Nebr., assignor to Alfa-Maise Manufacturing Company, Wilmington, Del. Forage-cutter. No. 1,390,548; Sept. 13; v. 290; p. 290.
Shaw, R. W. (See Soutullo, Raymond J., assignor.)
Sheet Steel Products Company. (See Baxter, Kenneth S., assignor.)
Shiner, Albert E., London, England. Rotary pump. No. 1,390,932; Sept. 13; v. 290; p. 368.
Siemens Schuckertwerke, G. m. b. H. (See Schenkel, Moritz, assignor.)
Sieurin, Sven E., Höganäs, Sweden. Burning of carbon electrodes. No. 1,390,823; Sept. 13; v. 290; p. 346.
Silliman, James R., Jr., New York, N. Y. Playing-cards and games. No. 1,390,824; Sept. 13; v. 290; p. 346.

Silverman, Charles, Providence, R. I. Hair-retaining device. No. 1,390,825; Sept. 13; v. 290; p. 346.
Silverthorne, Frank H., New York, N. Y. Bottle-closure. No. 1,390,549; Sept. 13; v. 290; p. 290.
Simonetta, Giuseppe, and A. Rosa, Milan, Italy. Automatic telephone system. No. 1,390,729; Sept. 13; v. 290; p. 327.
Simpson, Nelson L., Corona, N. Y. Musical tablature for rifles. No. 1,390,933; Sept. 13; v. 290; p. 368.
Skidmore, Benjamin, Jr., Chicago, Ill. Fluid-displacing apparatus. No. 1,390,390; Sept. 13; v. 290; p. 258.
Skidmore, Benjamin, Jr., Chicago, Ill. Fluid-pump. No. 1,390,391; Sept. 13; v. 290; p. 258.
Slater, William E., assignor to Buffalo Automobile Spring Company, Inc., Buffalo, N. Y. Leaf-spring. No. 1,390,649; Sept. 13; v. 290; p. 312.
Small, Frederick E., Needham, Mass. Rim-tool. No. 1,390,826; Sept. 13; v. 290; p. 346.
Smith, Frank H., Canton, Ohio. Self-dumping bar-carrier. No. 1,390,650; Sept. 13; v. 290; p. 312.
Smith, Harry, Portland, Oreg. Linotype-instruction device. No. 1,390,550; Sept. 13; v. 290; p. 291.
Smith, Henry A. W., Chatham, Va. Shears. No. 1,390,730; Sept. 13; v. 290; p. 327.
Smith, Henry J., Minneapolis, Minn. Churn and butter-worker. No. 1,390,466; Sept. 13; v. 290; p. 273.
Smith, John O., Cleveland, Ohio. Vehicle-tire. No. 1,390,467; Sept. 13; v. 290; p. 273.
Smith, William E., Milltown, assignor to The Interwoven Mills, Inc., New Brunswick, N. J. Seamless tubular knit fabric and knitting the same. No. 1,390,827; Sept. 13; v. 290; p. 346.
Smith, William H., Milwaukee, Wis. Abrading-machine. No. 1,390,828; Sept. 13; v. 290; p. 346.
Smoot, Charles H., South Orange, N. J., assignor to Ratean Batts Smoot Engineering Corporation, New York, N. Y. Regulating blowing-engines. No. 1,390,829; Sept. 13; v. 290; p. 347.
Snow, Daniel W., Fillmore, Calif. Wire-rope socket. No. 1,390,830; Sept. 13; v. 290; p. 347.
Spach, Amuel B. (See Bergman, Frederick, assignor.)
Spalding, A. G., & Bros. (See Reach, William F., assignor.)
Spalding, A. G., & Bros. (See Saunders, Addison T., assignor.)
Spalding, Henry W., *et al.* (See Grinham, Frederick, assignor.)
Spanell, Joseph, Hazleton, Pa. Drill-holder. No. 1,390,731; Sept. 13; v. 290; p. 327.
Sparling, Elliott W. (See Osman, Ralph T., assignor.)
Speaber, Theodore, Chicago, Ill. Embalming fluid. No. 1,390,392; Sept. 13; v. 290; p. 259.
Speicher, Paul J., Gaston, Ind. Auto-license holder. No. 1,390,732; Sept. 13; v. 290; p. 327.
Spelling, Thomas C., New York, N. Y. Closure for bottles and other containers. No. 1,390,832; Sept. 13; v. 290; p. 347.
Spelling, Thomas C., New York, N. Y. Closure for bottles and other containers. No. 1,390,833; Sept. 13; v. 290; p. 348.
Spence, Henry U., Painesville, Ohio. Lubricating system. No. 1,390,393; Sept. 13; v. 290; p. 259.
Spengler Loomis Mfg. Company. (See Ensign, Emory S., assignor.)
Sperry, Lawrence B., assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Steering device for aircraft. No. 1,390,653; Sept. 13; v. 290; p. 312.
Sperry Gyroscope Company, The. (See Sperry, Lawrence B., assignor.)
Spiess, Paul, Zurich, Switzerland. Construction of turbines. No. 1,390,733; Sept. 13; v. 290; p. 327.
Spitzglass, Jacob M., assignor to Republic Flow Meters Company, Chicago, Ill. Flow-meter. No. 1,390,394; Sept. 13; v. 290; p. 259.
Spiltdorf Electrical Company. (See Mason, Charles T., assignor.)
Spongberg, Axel E., Brooklyn, N. Y. Mechanical toy. No. 1,390,395; Sept. 13; v. 290; p. 259.
Soderquist, John, Beloit, Wis. Flue-cleaner. No. 1,390,831; Sept. 13; v. 290; p. 347.
Solberg, Christopher L., Minneapolis, Minn. Lawn or garden table. No. 1,390,651; Sept. 13; v. 290; p. 312.
Southard, Alfred M., Chicago, Ill., assignor to Taylor-Southard Company, Windshield. No. 1,390,652; Sept. 13; v. 290; p. 312.
Soutullo, Raymond J., assignor of one-half to R. W. Shaw, Mobile, Ala. Bottle-refrigerator. No. 1,390,934; Sept. 13; v. 290; p. 368.
Stage, Harold I., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Motor-rotation impact-tool. No. 1,390,834; Sept. 13; v. 290; p. 348.
Stanton, Mark T., Cleveland Heights, assignor to The Electric Railway Improvement Company, Cleveland, Ohio. Rail-bond protector. No. 1,390,468; Sept. 13; v. 290; p. 273.
Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Manufacturing nozzle-diaphragms for elastic-fluid turbines. No. 1,390,835; Sept. 13; v. 290; p. 348.
Stevens, Leo W., Everett, Wash. Insect-protector. No. 1,390,734; Sept. 13; v. 290; p. 328.
Stevenson, George M. (See Waters, G. E., and Stevenson.)
Stevings, M. Edith. (See Brady, Meredith D., assignor.)
Stewart-Warner Speedometer Corporation. (See Edwards, William A., assignor.)
Stewart, William, Newark, N. J. Lifeboat or raft. No. 1,390,935; Sept. 13; v. 290; p. 369.
Stiles, John C., *et al.* (See Grinham, Frederick, assignor.)
Stilgenbauer, Fred M., Shepherd, Mich. Tractor. No. 1,390,936; Sept. 13; v. 290; p. 369.
Stockton, William H., Ashtabula, Ohio. Auto-light control. No. 1,390,937; Sept. 13; v. 290; p. 369.
Stoll, Frank M., Denver, Colo. Camp-stool. No. 1,390,836; Sept. 13; v. 290; p. 348.
Stork, Henry A., St. Louis, Mo. Antislip rope and cable clamp. No. 1,390,654; Sept. 13; v. 290; p. 313.
Stowell, Byron F., assignor, by mesne assignments, to Metal Saw & Machine Co. Inc., Springfield, Mass. Operating device for material-working machines. No. 1,390,469; Sept. 13; v. 290; p. 273.
Straughan, Augustus E. (See Campbell, W. L., and Straughan.)
Strauss, Joseph B., Chicago, Ill. Railway-car. No. 1,390,396; Sept. 13; v. 290; p. 259.
Stubbe, John H., Pittsburgh, Pa. Elevator for automobile-trucks and the like. No. 1,390,837; Sept. 13; v. 290; p. 348.
Stull, Eleanor R., *et al.* (See Buhrman, Catherine M., assignor.)
Stull, Harry W., *et al.* (See Buhrman, Catherine M., assignor.)
Stull, Reuby M., *et al.* (See Buhrman, Catherine M., assignor.)
Stupar, Gottfried, Chicago, Ill. Phonograph. No. 1,390,655; Sept. 13; v. 290; p. 213.
Sturm, Lewis D., Portland, Oreg. Rear-axle pulley-drive for automobile vehicles. No. 1,390,656; Sept. 13; v. 290; p. 312.
Sturman, Robert E., Delano, Minn. Heating-boiler. No. 1,390,838; Sept. 13; v. 290; p. 348.
Sturtevant, B. F., Company. (See de Clamecy, Philippe, assignor.)
Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Crushing-mill. No. 1,390,839; Sept. 13; v. 290; p. 349.
Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Machine for reducing and separating materials. No. 1,390,840; Sept. 13; v. 290; p. 349.
Subtirelu, Christea N., New York, N. Y. Smoker's pipe. No. 1,390,657; Sept. 13; v. 290; p. 313.
Sundhaussen, Hermann, Essen, assignor to Fried, Krupp Aktiengesellschaft, Essen-on-the-Ruhr, Germany. Gyroscopic stabilizer. No. 1,390,471; Sept. 13; v. 290; p. 274.
Sutton, Edward R., Philadelphia, Pa. Car-unloader. No. 1,390,591; Sept. 13; v. 290; p. 299.
Svenson, Tobias, Milwaukee, Wis. Self-clearing propeller. No. 1,390,397; Sept. 13; v. 290; p. 260.
Swartwout, Everett W., White Plains, N. Y. Uniflow engine. No. 1,390,398; Sept. 13; v. 290; p. 260.
Swartwout, Everett W., White Plains, N. Y. Steam-motive-power plant. No. 1,390,399; Sept. 13; v. 290; p. 260.
Swinti, Alix, assignor of one-half to J. Moranic and M. Zlotorowicz, Detroit, Mich. Lock. No. 1,390,841; Sept. 13; v. 290; p. 349.
Szostek, Wojciech, Three Rivers, Mass. Collapsible chair. No. 1,390,842; Sept. 13; v. 290; p. 349.
Tabb, Warner T. (See Douglas, T., and Tabb.)
Taber, George H., Jr., assignor to Gulf Refining Company, Pittsburgh, Pa. Manufacture of gasolene. No. 1,390,472; Sept. 13; v. 290; p. 274.
Taylor-Southard Company. (See Southard, Alfred M., assignor.)
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Locomotive brake equipment. No. 1,390,592; Sept. 13; v. 290; p. 299.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Load-brake apparatus. No. 1,390,593; Sept. 13; v. 290; p. 299.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control equipment. No. 1,390,594; Sept. 13; v. 290; p. 300.
Thomas, Thomas H., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety car-control device. No. 1,390,595; Sept. 13; v. 290; p. 300.
Thompson, James H., Harrisonville, Mo. Support for endless tracks. No. 1,390,473; Sept. 13; v. 290; p. 274.
Thompson, Louis W., Schenectady, N. Y., assignor to General Electric Company. Regulating system for dynamo-electric machines. No. 1,390,843; Sept. 13; v. 290; p. 349.
Thompson, Stewart T., Lynn, Mass. Book-holder. No. 1,390,938; Sept. 13; v. 290; p. 369.
Thornton, Frank, Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Terminal structure and making same. No. 1,390,596; Sept. 13; v. 290; p. 300.

Threet, Preston E., assignor of one-third to A. Dredden and one-third to O. G. Jones, Philadelphia, Pa. Combination-tool. No. 1,390,400; Sept. 13; v. 290; p. 260.
Thurn, Lloyd A., Fremont, Ohio. Motor-meter light. No. 1,390,939; Sept. 13; v. 290; p. 369.
Tibbits, Wiley P., Charleston, S. C. Life-preserver. No. 1,390,474; Sept. 13; v. 290; p. 274.
Timanus, Eugene H., *et al.* (See Webb, Ernest E., assignor.)
Timmons, Edward B., Charlotte, N. C. Seeder. No. 1,390,940; Sept. 13; v. 290; p. 370.
Togami, Komanosuke, Fukuoka, Japan. Hydraulic gastric examiner or hydraulic stomach-examining apparatus. No. 1,390,844; Sept. 13; v. 290; p. 350.
Toler, Hubert, Sweetwater, Tex. Safety medicine-spoon. No. 1,390,475; Sept. 13; v. 290; p. 275.
Tomlinson, Horace, Philadelphia, Pa. Billet-charging apparatus. No. 1,390,845; Sept. 13; v. 290; p. 350.
Tomoda Goshi Kaisha. (See Ikeda, Sumiyuki, assignor.)
Townsend, William S., Washington, D. C. Portable liquid-dispenser. No. 1,390,476; Sept. 13; v. 290; p. 275.
Towson, Richard M., Stafford, Va. Recoil neutralizer and muffler. No. 1,390,658; Sept. 13; v. 290; p. 313.
Tranzen, Eric T., *et al.* (See Evans, Fred, assignor.)
Treo Company. (See Schloss, Meyer W., assignor.) (Reissue.)
Trotter, James, Chicago, Ill. Automatically-adjustable exhaust-nozzle for locomotive-engines. No. 1,390,401; Sept. 13; v. 290; p. 260.
Trowbridge, William S., assignor to American Steel Foundries, Chicago, Ill. Truck-side-frame arrangement. No. 1,390,311; Sept. 13; v. 290; p. 243.
Tryfogle, George D., *et al.* (See Webb, Ernest E., assignor.)
Tullis, John K., assignor to Fulcra Tan Company, New York, N. Y. Tanning. No. 1,390,735; Sept. 13; v. 290; p. 238.
Turner, Douglas, assignor to The Hosch Mechanisms Corporation, St. Louis, Mo. Leather-measuring machine. No. 1,390,313; Sept. 13; v. 290; p. 124.
Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Roller construction. No. 1,390,312; Sept. 13; v. 290; p. 243.
Twin Disc Clutch Company. (See Fawick, Thomas I., assignor.)
Ullmann, William F., and W. C. Hillsinger, Syracuse, N. Y. Angle-cock. No. 1,390,314; Sept. 13; v. 290; p. 243.
Underwood Computing Machine Company. (See Degener, Gustave O., assignor.)
Underwood Typewriter Company. (See Hausman, Walter J., assignor.)
Union Metal Products Company. (See Mayhew, Edward A., assignor.)
Union Steam Pump Company. (See Ambrose, Frank F., assignor.)
United Shoe Machinery Corporation. (See Brock, Matthias, assignor.)
United Shoe Machinery Corporation. (See Hill, George S., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
Universal Parts Company, The. (See Yassenoff, Isidor, assignor.)
Van Ness, Henry E., Elmira, N. Y. Soldering device for fuse-sockets. No. 1,390,315; Sept. 13; v. 290; p. 244.
Van Sandt, Ray, Bakersfield, and W. T. Williams, Taft, assignors of sixty per cent. to W. C. Rae, Pasadena, Calif. Insulated electrode. No. 1,390,819; Sept. 13; v. 290; p. 345.
Vaughan, David L., Riverton, N. J. Card game. No. 1,390,659; Sept. 13; v. 290; p. 314.
Vick, Henry, Chicago, Ill. Grate-block lock. No. 1,390,316; Sept. 13; v. 290; p. 244.
Vincent, Charles. (See Fontaine, A., and Vincent.)
Vincent, Edward H., Detroit, Mich. Tire-locking device. No. 1,390,402; Sept. 13; vol. 290; p. 261.
Vitrocell Company. (See Massay, John R., assignor.)
Voight, Henry G., assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,390,403; Sept. 13; v. 290; p. 261.
Vonnegut, Anton. (See Gathman, Monte B., assignor.)
Von Niessen, Ernst H. W., Wilmersdorf-Berlin, Germany. Bristle for brooms and brushes. No. 1,390,973; Sept. 13; v. 290; p. 376.
Von Porat, Karl H. V., Stockholm, assignor to Motala Verkstads Nya Aktiebolag, Motala Verkstad, Sweden. Apparatus for stirring and feeding of pulverulent fuel in furnaces for locomotives or the like. No. 1,390,974; Sept. 13; v. 290; p. 376.
Vortex Washer Corporation. (See De Laney, Jeremiah L., assignor.)
Wadsworth, Charles W., Merrick, N. Y. Display device. No. 1,390,736; Sept. 13; v. 290; p. 328.
Wadsworth, Charles W., Merrick, assignor to T. F. Moore, New York, N. Y. Display device. No. 1,390,737; Sept. 13; v. 290; p. 328.
Wagner, Charles, New York, N. Y. Electrical current-control device. No. 1,390,317; Sept. 13; v. 290; p. 244.
Wagner, Fritz. (See Brown, R. P., and Wagner.)
Wahlberg, John, New York, N. Y. Phonograph. No. 1,390,404; Sept. 13; v. 290; p. 261.
Wainwright, Charles, Erie, Pa. Plate-valve. No. 1,390,941; Sept. 13; v. 290; p. 370.
Waldes, JindRich, Prague, Bohemia. Hook-and-eye package. No. 1,390,405; Sept. 13; v. 290; p. 261.
Walker, Charles I., San Francisco, Calif. Brake shoe and head. No. 1,390,846; Sept. 13; v. 290; p. 350.
Walker, Thomas C., Jr., Denver, Colo. Flexible-flange friction-clutch belt-pulley. No. 1,390,406; Sept. 13; v. 290; p. 261.
Walliser, H. F., Company. (See Arnold, Clarence F., assignor.)
Wallmann, Johann G., Oakland, Calif. Electric heating unit. No. 1,390,407; Sept. 13; v. 290; p. 262.
Ward, George P., *et al.* (See Grinham, Frederick, assignor.)
Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Apparatus for regulating frequency. No. 1,390,318; Sept. 13; v. 290; p. 244.
Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Self-starting synchronous motor. No. 1,390,319; Sept. 13; v. 290; p. 245.
Warren, Henry E., assignor to Warren Clock Company, Ashland, Mass. Self-starting synchronous motor. No. 1,390,320; Sept. 13; v. 290; p. 245.
Warren Clock Company. (See Warren, Henry E., assignor.)
Waterbury Buckle Co. (See Webb, C. M., and Miller, assignors.)
Waterbury Clock Co. (See Wehinger, Frederick, assignor.)
Waterman, Malcolm T., Cedar Rapids, Iowa. Towing device. No. 1,390,942; Sept. 13; v. 290; p. 370.
Waters, George E., and G. M. Stevenson, Baltimore, Md. Lumber-truck. No. 1,390,321; Sept. 13; v. 290; p. 245.
Wayda, Peter, Aurora, assignor to L. Moss, Chicago, Ill. Steering device. No. 1,390,322; Sept. 13; v. 290; p. 245.
Webb, Charles M., and T. Miller, assignors to Waterbury Buckle Co., Waterbury, Conn. Flexible clasp-button. No. 1,390,847; Sept. 13; v. 290; p. 350.
Webb, Ernest E., assignor of one-third to G. D. Fryfogle and one-third to E. H. Timanus, Baltimore, Md. Attachment for looms. No. 1,390,943; Sept. 13; v. 290; p. 370.
Webb, Purcell T., Timaru, New Zealand. Locking device for the nuts of bolts and the like. No. 1,390,944; Sept. 13; v. 290; p. 370.
Webber, William S., Chicago, Ill. End-wrench. No. 1,390,408; Sept. 13; v. 290; p. 262.
Webster, Harry G., Chicago, Ill. Automatic telephone-switch. No. 1,390,409; Sept. 13; v. 290; p. 262.
Webster, Paul W., Pelham Manor, assignor to Perry & Webster Incorporated, New York, N. Y. Acid manufacture. No. 1,390,410; Sept. 13; v. 290; p. 262.
Wehinger, Frederick, assignor to Waterbury Clock Co., Waterbury, Conn. Ship's-bells clock. No. 1,390,848; Sept. 13; v. 290; p. 350.
Weinerth, George S., Reading, Pa. Printing attachment for knitting-machines. No. 1,390,660; Sept. 13; v. 290; p. 314.
Weinheim, Emil. (See Lippmann, Julius D., assignor.)
Weisman, S., *et al.* (See Campbell, W. L., and Straughan, assignors.)
Wennerström, Torsten, Bofors, Sweden. Loading detonating-caps. No. 1,390,849; Sept. 13; v. 290; p. 351.
Wenzelmann, Gustave, Galesburg, Ill. Automatic chemical fire-extinguishing apparatus. No. 1,390,945; Sept. 13; v. 290; p. 371.
West, Leonidas D., Denver, Colo. Fuel-saver and smoke-consumer. No. 1,390,946; Sept. 13; v. 290; p. 371.
West, Leonidas D., Denver, Colo. Air-heater for stoves and furnaces. No. 1,390,947; Sept. 13; v. 290; p. 371.
Western Electric Company Incorporated. (See Dobbin, H. F., and Gent, assignors.)
Westinghouse Air Brake Company, The. (See Cass, Christopher P., assignor.)
Westinghouse Air Brake Company, The. (See Dapron, Joseph M., assignor.)
Westinghouse Air Brake Company, The. (See Farnier, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company. (See Thomas, Thomas H., assignor.)
Westinghouse Air Brake Company, The. (See Westinghouse, Henry H., assignor.)
Westinghouse Electric Manufacturing Company. (See Allcutt, Chester T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Coulson, John, assignor.)
Westinghouse Electric & Manufacturing Company. (See Eaton, George M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ehrenfeld, R., and Hansen, assignors.)
Westinghouse Electric & Manufacturing Company. (See Ehrhart, Raymond N., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gasda, Adolph A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Harvey, Albert L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Miller, Frederick H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lamme, Benjamin G., assignor.

Westinghouse Electric & Manufacturing Company. (See Thornton, Frank J., assignor.)
Westinghouse, Henry H., New York, N. Y., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid-pressure brake. No. 1,390,597; Sept. 13; v. 290; p. 300.
Wheeler, John L., assignor to The Measuregraph Company, St. Louis, Mo. Zero-setting mechanism for measuring-machines. No. 1,390,323; Sept. 13; v. 290; p. 245.
White, Noah R., Delta, Colo. Mud-chain. No. 1,390,411; Sept. 13; v. 290; p. 262.
Widheim, Margaret V., Fremont, Nebr. Feed-rack. No. 1,390,412; Sept. 13; v. 290; p. 262.
Wiggin, John D., Montclair, assignor to H. B. Wiggin's Sons Company, Bloomfield, N. J. Wall-covering and making same. No. 1,390,413; Sept. 13; v. 290; p. 263.
Wiggin's, H. B., Sons Company. (See Wiggin, John D., assignor.)
Wilcox, Richard J. (See Kaup, H. E., and Wilcox.
Willard, Walter C., Gates Mills, Ohio. Spring-retainer for puppet-valves. No. 1,390,661; Sept. 13; v. 290; p. 314.
Williams, Chester L., *et al.* (See Davis, J. W., and Osborne, assignors.)
Williams, J. K. (See Schonitzer, Rudolph I., assignor.)
Williams, Owen J., Orchard Park, N. Y. Socket-wrench. No. 1,390,738; Sept. 13; v. 290; p. 328.
Williams, William T. (See Van Sandt, R., and Williams.)
Willys-Overland Company, The. (See Belden, Edward H., assignor.)
Willys-Overland Company, The. (See Gravel, Abundius, assignor.
Willys-Overland Company, The. (See Holmes, Edward, assignor.)
Willys-Overland Company, The. (See Jerdone, Francis, Jr., assignor.)
Willys-Overland Company, The. (See Kehoe, Thomas J., assignor.)
Willys-Overland Company, The. (See Lindsey, Harry W., Jr., assignor.)
Willys-Overland Co., The. (See McKinley, Charles W., assignor.)
Willys-Overland Company, The. (See Sentius, Antoine G., assignor.)
Wilson, David H., Philadelphia, Pa. Phonograph-reproducer. No. 1,390,962; Sept. 13; v. 290; p. 374.
Wilson, David H., Philadelphia, Pa. Phonograph-reproducer. No. 1,390,963; Sept. 13; v. 290; p. 374.
Wilson, David H., Philadelphia, Pa. Stylus-bar mounting for reproducers. No. 1,390,964; Sept. 13; v. 290; p. 375.
Wilson, Earl M., St. Paul, and E. S. Seamon, Minneapolis, Minn. Railway-switch point. No. 1,390,850; Sept. 13; v. 290; p. 351.
Winckler, Henry J., San Antonio, Tex. Flush-valve. No. 1,390,851; Sept. 13; v. 290; p. 351.
Wilson, Robert F., Montrose, Colo. Potato-cutter. No. 1,390,739; Sept. 13; v. 290; p. 329.
Wingqvist, Erik H., assignor to Aktiebolaget Svenska Kugghjulsfabriken, Gottenborg, Sweden. Gear-wheel. No. 1,390,414; Sept. 13; v. 290; p. 263.
Winters, Lee L., Ann Arbor, Mich. Oil-gage. No. 1,390,415; Sept. 13; v. 290; p. 263.
Winton, E. H., *et al.* (See Campbell, W. L., and Straughan, assignors.
Wisconsin Chair Company, The. (See Hansen, Oswald H., assignor.
Wittig, Alfred C., Rochester, N. Y. Operating mechanism for signals and other devices. No. 1,390,662; Sept. 13; v. 290; p. 314.
Wolf, Jacob, Milwaukee, Wis. Gas-engine. No. 1,390,416; Sept. 13; v. 290; p. 263.
Woodbridge, Richard G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propellent bulk smokeless powder. No. 1,390,740; Sept. 13; v. 290; p. 329.
Woodward, Norman C., Hornell, N. Y. Spring-tire. No. 1,390,948; Sept. 13; v. 290; p. 371.
Woolley, Rollin, Carlton, Oreg. Bunk. No. 1,390,852; Sept. 13; v. 290; p. 351.
Worth Brothers Corporation. (See Worth, John S., assignor.)
Worth, James M., Chicago, Ill. Traction mechanism. No. 1,390,324; Sept. 13; v. 290; p. 245.
Worth, John S., Coatesville, Pa., assignor to Worth Brothers Corporation, Claymont, Del. Roller transfer-table. No. 1,390,853; Sept. 13; v. 290; p. 351.
Wyckoff, Joseph E., Los Angeles, Calif. Beet-harvester. No. 1,390,663; Sept. 13; v. 290; p. 314.
Yamamoto, Takejiro, Tokyo, Japan. Intertwisted net. No. 1,390,325; Sept. 13; v. 290; p. 246.
Yarbrough, Walter W., Memphis, Tenn. Attachment for crank-shafts. No. 1,390,417; Sept. 13; v. 290; p. 263.
Yassenoff, Isidor, assignor to The Universal Parts Company, Columbus, Ohio. Cam-shaft and making the same. No. 1,390,949; Sept. 13; v. 290; p. 372.
Zlotorowicz, Mike, *et al.* (See Swinti, Alix, assignor.)
Zutman, Morres, Chicago, Ill. Vehicle-top. No. 1,390,418; Sept. 13; v. 290; p. 264.
Zybach, Frank L., Grand Island, Nebr. Automatic tractor-guide. No. 1,390,419; Sept. 13; v. 290; p. 264.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Adam, Harry C., St. Louis, Mo. Wall-plate for lighting-fixtures. No. 58,985; Sept. 13; v. 290; p. 378.
Adam, Harry C., St. Louis, Mo. Lighting-fixture urn. No. 58,986; Sept. 13; v. 290; p. 378.
American Bank Note Company. (See Major, Alfred S., assignor.)
Ames, Raymond R. (See Norman, E., and Ames.)
Beck, August B., Jersey City, N. J. Lady's girdle. No. 58,987; Sept. 13; v. 290; p. 378.
Binch, Herbert, Glens Falls, assignor to Thomas Wilson & Co., New York, N. Y. Lace. Nos. 58,988–9; Sept. 13; v. 290; p. 379.
Blue Ribbon Silver Manufacturers. (See Sherman, Max, assignor.)
Brueggebors, Otto, West Hoboken, N. J. Lace. Nos. 58,990–1; Sept. 13; v. 290; p. 379.
Bunting, James H., assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 58,992; Sept. 13; v. 290; p. 379.
Burke, Mattie M., Los Angeles, Calif. Apron. No. 58,993; Sept. 13; v. 290; p. 379.
Burns, James P., Los Angeles, Calif. Sandal. No. 58,994; Sept. 13; v. 290; p. 379.
Campbell, Byrde, Evansville, Ind. Coal-cabinet. No. 58,995; Sept. 13; v. 290; p. 380.
Cartlidge, Rowland E., Akron, Ohio, assignor to Lomer Armored Tire Company, Newcastle, Ind. Tire-tread. Nos. 58,996–7; Sept. 13; v. 290; p. 380.
Daudy, Marc H., assignor to North American Lace Company, Philadelphia, Pa. Lace. No. 58,998; Sept. 13; v. 290; p. 380.
Dever, Harry A., Wilmette, Ill. Rear signaling device for automobiles. No. 58,999; Sept. 13; v. 290; p. 380.
Electric Vulcanising Rubber Company, The. (See Weller, Edward G., assignor.)
Emerson, Jerome E. (See Ransom, H. L., and Emerson.)
Ensign, Emory S., Jamaica, N. Y. Bob-sled. No. 59,000; Sept. 13; v. 290; p. 380.
Fiberbone Company, The. (See Fredericks, Maurice B., assignor.)
Fisher, Kenneth G., Tacoma, Wash. Signboard for weighing-scales. No. 59,001; Sept. 13; v. 290; p. 381.
Fredericks, Maurice B., assignor to The Fiberbone Company, Waltham, Mass. Protective cover for a loom picker. No. 59,002; Sept. 13; v. 290; p. 381.
Fredericks, Maurice B., assignor to The Fiberbone Company, Waltham, Mass. Picker for a loom. No. 59,003; Sept. 13; v. 290; p. 381.
Goldstein, Eli B., Chicago, Ill. Inkwell. No. 59,004; Sept. 13; v. 290; p. 381.
Hannaford, Pearl B., Los Angeles, Calif. Child's blouse. No. 59,005; Sept. 13; v. 290; p. 381.
Hart & Company, The. (See Mason, Joseph W., assignor.)
Hoke, Jacob F., Jr. (See Holcomb, J. I., and Hoke, Jr.)
Holcomb, James I., and J. F. Hoke, Jr., Indianapolis, Ind. Vending-cabinet. No. 59,006; Sept. 13; v. 290; p. 381.
Holmes, Joseph D., New York, N. Y. Stand. No. 59,007; Sept. 13; v. 290; p. 382.
Jamrowicz, Joseph F., Detroit, Mich. Tire-tread. No. 59,008; Sept. 13; v. 290; p. 382.
Kapotkin, Herman, New York, N. Y. Soft-collar clasp. No. 59,009; Sept. 13; v. 290; p. 382.
Kehr, Rudolf, Weehawken, N. J. Trimming for fabrics and like materials. No. 59,010; Sept. 13; v. 290; p. 382.
Keller, William F., Detroit, Mich. Toy monkey. No. 59,011; Sept. 13; v. 290; p. 382.
Kelly, Ida N., Long Beach, Calif. Night-shirt. No. 59,012; Sept. 13; v. 290; p. 383.
Kniffin & Demarest Co. (See Stuart, Ralph E., assignor.)
Knisely, Elwood E., assignor to G. R. Shanklin, Springfield, Ill. Pencil-cap. No. 59,013; Sept. 13; v. 290; p. 383.
Krupicka, Ella, assignor to Susquehanna Silk Mills, New York, N. Y. Textile fabric. No. 59,014; Sept. 13; v. 290; p. 383.
Lane, Helen P., Boston, Mass. Flag, banner, or article of a similar nature. No. 59,015; Sept. 13; v. 290; p. 383.
La Pierre, Frank H., East Orange, N. J. Vase. No. 59,016; Sept. 13; v. 290; p. 383.
La Tour, Lee, and A. F. Munnell, assignors to Progress Roller Company, Omaha, Nebr. Inking-roller. No. 59,017; Sept. 13; v. 290; p. 383.
Lentz, Frederick G., Langhorne, assignor to The Quaker Mills, Philadelphia, Pa. Quilt. No. 59,018; Sept. 13; v. 290; p. 384.
Lomer Armored Tire Company. (See Cartlidge, Rowland E., assignor.)
Lund, Clarence W. (See Worthy, J. H., and Lund.)

McCollough, Charles D., Des Moines, Iowa. Tire-core. No. 59,024; Sept. 13; v. 290; p. 385.
McCullough, David R., Oakland, Calif. Combined watch and key-ring strap. No. 59,025; Sept. 13; v. 290; p. 385.
Major, Alfred S., assignor to American Bank Note Company, New York, N. Y. Bank-note. No. 59,019; Sept. 13; v. 290; p. 384.
Manfredy, Moise, Brooklyn, N. Y. Pin. No. 59,020; Sept. 13; v. 290; p. 384.
Marko, Paul M., Brooklyn, N. Y. Storage-battery terminal. No. 59,021; Sept. 13; v. 290; p. 384.
Mason, Joseph W., assignor to The Hart & Company, Cleveland, Ohio. Hat-lining. No. 59,023; Sept. 13; v. 290; p. 385.
Minnis, George F., Chicago, Ill., assignor to National Safety Window Device Company. Anchor for safety-harness. Nos. 59,026–7; Sept. 13; v. 290; pp. 385–6.
Mosauer, Harry D., assignor to Tuskeloid Company, Inc., New York, N. Y. Top, bottom, or the like for a toilet-receptacle. No. 59,022; Sept. 13; v. 290; p. 384.
Munnell, Alton F. (See La Tour, L., and Munnell.)
National Safety Window Device Company. (See Minnis, George F., assignor.)
Niagara Textile Company. (See Ransom, H. L., and Emerson, assignors.)
Norden, Mortimer, New York, N. Y. Electric sign. No. 59,029; Sept. 13; v. 290; p. 386.
Norman, Ernest, and R. E. Ames, New York, N. Y. Bag-frame. No. 59,030; Sept. 13; v. 290; p. 386.
Norris, Paul E., Forest Hill borough, Pa. Holddown-plate for batteries. No. 59,028; Sept. 13; v. 290; p. 386.
North American Lace Company. (See Daudy, Marc H., assignor.)
Philips, Frank, Brooklyn, N. Y. Shoe. No. 59,031; Sept. 13; v. 29; p. 386.
Polhamus, Kathleen M., South Pasadena, Calif. Bonnet. No. 59,032; Sept. 13; v. 290; p. 387.
Polhamus, Kathleen M., South Pasadena, Calif. Sunbonnet. No. 59,033; Sept. 13; v. 290; p. 387.
Progress Roller Company. (See La Tour L., and Munnell, assignors.)
Quaker Mills, The. (See Lentz, Frederick G., assignor.)
Ransom, Harry L., and J. E. Emerson, assignors to Niagara Textile Company, Lockport, N. Y. Textile fabric or similar article. No. 59,034; Sept. 13; v. 290; p. 387.
Shanklin, George R. (See Knisely, Elwood E., assignor.)
Sheaffer, Walter A., Fort Madison, Iowa. Pencil. No. 59,035; Sept. 13; v. 290; p. 387.
Sherman, Max, Brooklyn, assignor to Blue Ribbon Silver Manufacturers, Inc., New York, N. Y. Vase. No. 59,036; Sept. 13; v. 290; p. 387.
Smith, Doris M., Oakland, Calif. Child's frock. No. 59,037; Sept. 13; v. 290; p. 388.
Stuart, Ralph E., Buffalo, N. Y., assignor to Kniffin & Demarest Co. Crockery and chinaware. Nos. 59,038–9; Sept. 13; v. 290; p. 388.
Sumner, Chester L., Tacoma, Wash. Handkerchief. No. 59,040; Sept. 13; v. 290; p. 388.
Susquehanna Silk Mills. (See Bunting, James H., assignor.)
Susquehanna Silk Mills. (See Krupicka, Ella, assignor.)
Sutton, Eugene S., Seattle, Wash. Kitchen-cabinet. No. 59,041; Sept. 13; v. 290; p. 389.
Swan, Herbert H., Grand Rapids, Mich. Tire-tread. No. 59,042; Sept. 13; v. 290; p. 389.
Travis, John M., St. Louis, Mo. Beverage-dispensing apparatus. No. 59,043; Sept. 13; v. 290; p. 389.
Tuskeloid Company. (See Mosauer, Harry D., assignor.)
Tweedie, Charles, Jefferson City, Mo. Anklet. Nos. 59,044–6; Sept. 13; v. 290; p. 389.
Tweedie, Charles, Jefferson City, Mo. Boot-top. Nos. 59,047–8; Sept. 13; v. 290; p. 390.
Wahl Company, The. (See Worthy, J. H., and Lund, assignors.)
Weller, Edward G., assignor to The Electric Vulcanizing Rubber Company, Cleveland, Ohio. Tire. No. 59,049; Sept. 13; v. 290; p. 390.
Wellen, Henry, New York, N. Y. Bow-clasp or similar article. No. 59,050; Sept. 13; v. 290; p. 390.
Wilcox, Urquhart, Buffalo, N. Y. Doll. No. 59,051; Sept. 13; v. 290; p. 391.
Wilson, Thomas, & Co. (See Binch, Herbert, assignor.)
Worthy, John H. Elgin, and C. W. Lund, Chicago, Ill., assignors to The Wahl Company, Wilmington, Del. Pen and pencil case. No. 59,052; Sept. 13; v. 290; p. 391.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Alabama Annual White Sweet Clover Seed Growers Association, Inc., Newbern, Ala. Clover-seed. No. 146,553; Sept. 13; v. 290; p. 421.

American Auto Top Company, The, Delphi, Ind. Automobile-tops. No. 146,627; Sept. 13; v. 290; p. 425.

American Chemical Paint Company, Philadelphia, Pa. Paint that is used to advantage on surfaces exposed to heat. No. 146,554; Sept. 13; v. 290; p. 421.

American Thread Company, The, Jersey City, N. J. Spool-cotton, sewing-cotton, thread, and cotton yarn. Nos. 146,628–30; Sept. 13; v. 290; p. 425.

Anthony Company, The, Long Island City, N. Y. Burners, furnaces, forges, ovens, and torches. No. 146,631; Sept. 13; v. 290; p. 425.

Aquazone Laboratories, Inc., Los Angeles, Calif. Medicinal water. No. 146,632; Sept. 13; v. 290; p. 425.

Athol Manufacturing Company, Athol, Mass. Pyroxylin-coated fabrics in the piece. No. 146,633; Sept. 13; v. 290; p. 425.

Bastian-Morley Co., Laporte, Ind. Gas water-heaters. No. 146,634; Sept. 13; v. 290; p. 425.

Belden Manufacturing Company, Chicago, Ill. Magnet-wires. No. 146,555; Sept. 13; v. 290; p. 421.

Belden Manufacturing Company, Chicago, Ill. Rubber-covered electrical conductors. No. 146,556; Sept. 13; v. 290; p. 421.

Bornstein, M., & Sons, Paterson, N. J. Silk shirtings in the piece. Nos. 146,557–8; Sept. 13; v. 290; p. 421.

Bridgeport Coach Lace Co., The, Bridgeport, Conn. Manufactured leather for vehicle-tops. No. 146,559; Sept. 13; v. 290; p. 421.

Central Consumers Company, Incorporated, Louisville, Ky. Non-alcoholic, maltless beverage and syrup for making same. No. 146,635; Sept. 13; v. 290; p. 426.

Chalmette Laundry Co. Ltd., The, New Orleans, La. Laundry-receptacles, such as boxes, bags, and the like. No. 146,560; Sept. 13; v. 290; p. 421.

Chatham Manufacturing Company, Winston-Salem, N. C. Blankets made of wool and of cotton or combination of wool and cotton. No. 146,637; Sept. 13; v. 290; p. 426.

Cheney & Co., New York, N. Y. Composition floorings and the mineral compositions for use in making same. No. 146,561; Sept. 13; v. 290; p. 421.

Chipman Chemical Engineering Co. Inc., New York, N. Y. Protective paint for iron, steel, and other metals. Nos. 146,562–3; Sept. 13; v. 290; p. 421.

Cincinnati Ball Crank Co., The, Cincinnati, Ohio. Stabilizers, drag-links for vehicle steering-gears, and bumpers. No. 146,636; Sept. 13; v. 290; p. 426.

Common Sense Gum Company, New York, N. Y. Chewing-gum. No. 146,638; Sept. 13; v. 290; p. 426.

Cosin, Joseph J., New York, N. Y. Powder-puffs. No. 146,639; Sept. 13; v. 290; p. 426.

Crouse, Lothaire E., Columbus, Ohio. Powdered preparation for certain named purposes. Nos. 146,640–1; Sept. 13; v. 290; p. 426.

Cullen Man'f'g Co., Salt Lake City, Utah. Candy. No. 146,642; Sept. 13; v. 290; p. 426.

Curtiss Candy Co., Chicago, Ill. Candy. No. 146,564; Sept. 13; v. 290; p. 421.

Dalton, Harry, Sr., Philadelphia, Pa. Combined tank and carbureter for use with internal-combustion engines. No. 146,565; Sept. 13; v. 290; p. 421.

Devoe & Reynolds Co., Inc., New York, N. Y. Paints, enamels, wood-stains, varnishes. No. 146,566; Sept. 13; v. 290; p. 421.

Edlis Barbers' Supply Co., The, Pittsburgh, Pa. Liquid cream for the hair. No. 146,643; Sept. 13; v. 290; p. 427.

Eisendrath, Joseph N., Company, The, Chicago, Ill. Leather. No. 146,567; Sept. 13; v. 290; p. 421.

Electric Tachometer Corporation, The, Philadelphia, Pa. Magneto-generators, electric switches, and electric contact devices. No. 146,568; Sept. 13; v. 290; p. 421.

Faure, Alexandre, New York, N. Y. Rubber and fabric pneumatic tires for automobiles. No. 146,569; Sept. 13; v. 290; p. 421.

Federal Rubber Company, The, Cudahy, Wis. Reliners, inside and outside tire-sleeves made wholly or partly of rubber. Nos. 146,570–1; Sept. 13; v. 290; p. 421.

Forest Electric Co., Newark, N. J. Rheostats. No. 146,572; Sept. 13; v. 290; p. 421.

Franklin Optical Company, Indianapolis, Ind. Reading-glasses. No. 146,573; Sept. 13; v. 290; p. 421.

Geigy Company, Inc., New York, N. Y. Dyestuffs. No. 146,644; Sept. 13; v. 290; p. 427.

Glosstein, Louis, Wilkes-Barre, Pa. Storage batteries. No. 146,574; Sept. 13; v. 290; p. 421.

Goodrich, B. F., Company, The, New York, N. Y. Gun recoil-pads. No. 146,645; Sept. 13; v. 290; p. 427.

Graf Bros., New York, N. Y. Hair-nets. No. 146,646; Sept. 13; v. 290; p. 427.

Graff, George B., Company, Somerville, Mass. Pencil-sharpeners. No. 146,575; Sept. 13; v. 290; p. 421.

Gudebrod Bros. Silk Co., New York, N. Y., and Philadelphia, Pa. Spool-silk. No. 146,647; Sept. 13; v. 290; p. 427.

Harris, Samuel A., New York, N. Y. Fountain-pens. No. 146,576; Sept. 13; v. 290; p. 421.

Hartmann, Thomas W. C., Philadelphia, Pa. Spring shock-absorbing devices. No. 146,577; Sept. 13; v. 290; p. 421.

Hollins, William, & Company, Limited, London and Mansfield, England. Articles of clothing. No. 146,578; Sept. 13; v. 290; p. 421.

India Tire and Rubber Company, The, Akron and Mogadore, Ohio. Tires, tubes, tire-repair materials and accessories. No. 146,648; Sept. 13; v. 290; p. 427.

International Heater Company, Utica, N. Y. Warm-air heaters and furnaces. No. 146,649; Sept. 13; v. 290; p. 427.

International Mfg. Co., Phillips, Me. Toothpicks. No. 146,579; Sept. 13; v. 290; p. 422.

J. & P. Coats (R. I.) Inc., Pawtucket, R. I. Thread and yarn. No. 146,580; Sept. 13; v. 290; p. 422.

Jaeger, H. B., Barber Supply Co., Jacksonville, Ill. Hair-tonics. No. 146,650; Sept. 13; v. 290; p. 428.

Johnson, John O., Chicago, Ill. Lawn-grass seed. No. 146,651; Sept. 13; v. 290; p. 428.

Kahlenberg Bros. Co., Two Rivers, Wis. Crude-oil engines. No. 146,581; Sept. 13; v. 290; p. 422.

La Fay, Arthur J., Toronto, Ontario, Canada. Furnaces, heaters, and boilers equipped with fuel-economizers. No. 146,582; Sept. 13; v. 290; p. 422.

Liberty & Co., Limited, London, England. Articles of clothing. No. 146,583; Sept. 13; v. 290; p. 422.

Lime Cola Co., Montgomery, Ala. Non-alcoholic, maltless extract and syrup for making soft drinks. No. 146,652; Sept. 13; v. 290; p. 428.

Lincoln Manufacturing Company, Detroit, Mich. Electric art lighting fixtures. No. 146,584; Sept. 13; v. 290; p. 422.

Litchfield Manufacturing Company, The, Waterloo, Iowa. Manure and straw spreaders, feed-grinders, manure-loaders. No. 146,585; Sept. 13; v. 290; p. 422.

Lloyd, William M., Company, Philadelphia, Pa. Lumber. No. 146,586; Sept. 13; v. 290; p. 422.

Lynn Rubber Manufacturing Company, Warren, R. I. Arch-supporters and bunion-protectors. No. 146,587; Sept. 13; v. 290; p. 422.

Lysle, Edmond, New York, N. Y. Motion-pictures. No. 146,588; Sept. 13; v. 290; p. 422.

McIver, M. J., Van Buren, Me. Fresh potatoes. No. 146,589; Sept. 13; v. 290; p. 422.

Manley, Job R., East Liverpool, Ohio. Non-alcoholic drink made from herbs, roots, barks, fruits, and pepsin. No. 146,653; Sept. 13; v. 290; p. 428.

Manufacturing Dealers Company, The, Pittsburg, Kans., and Boston, Mass. Razors. No. 146,590; Sept. 13; v. 290; p. 422.

Marburg Brothers, Inc., New York, N. Y. Steel letter-die punches. No. 146,593; Sept. 13; v. 290; p. 422.

Myers, Leonard C., Los Angeles, Calif. Automobile-window. No. 146,654; Sept. 13; v. 290; p. 428.

National Biscuit Company, New York, N. Y. Biscuit and crackers. No. 146,655; Sept. 13; v. 290; p. 428.

Nicholas, L. V., Oil Company, The, Omaha, Nebr. Lubricating oils and greases. No. 146,591; Sept. 13; v. 290; p. 422.

No-Leak-O Piston Ring Company, Baltimore, Md. Piston-rings. No. 146,656; Sept. 13; v. 290; p. 428.

O'Connell, Joseph P., Boston, Mass. Waterproofing compound for roofing and construction use. No. 146,592; Sept. 13; v. 290; p. 422.

Orange Nectar Co., Brooklyn, N. Y. Non-cereal, maltless beverage. No. 146,657; Sept. 13; v. 290; p. 429.

Pagnotta, Joseph, Latrobe, Pa. Antiseptic powder for relieving burns. No. 146,658; Sept. 13; v. 290; p. 429.

Parker Tire & Rubber Company, The, Indianapolis, Ind. Pneumatic rubbber tires. No. 146,594; Sept. 13; v. 290; p. 422.

Pattison, William L., Kansas City, Mo. Gratings. No. 146,595; Sept. 13; v. 290; p. 422.

Pennsylvania Pump & Compressor Co., Easton, Pa. Compressors and pumps and attachments therefor. No. 146,596; Sept. 13; v. 290; p. 422.

Ranney-Davis Mercantile Company, The, Arkansas City, Kans. Canned fruits, vegetables, and fish, cereals, syrup, &c. No. 146,597; Sept. 13; v. 290; p. 422.

Rath, Wilhelm, Niederteufen, Switzerland. Medicine for lung troubles, tuberculosis, asthma, &c. No. 146,598; Sept. 13; v. 290; p. 422.

Rice-Stix Dry Goods Company, St. Louis, Mo. Cotton piece goods. No. 146,659; Sept. 13; v. 290; p. 429.

Richardson Lubricating Company, Quincy, Ill. Lubricating oils and greases and axle-grease. No. 146,599; Sept. 13; v. 290; p. 422.

Robinson, A. M., Company, Atlanta, Ga. Cotton piece goods. No. 146,601; Sept. 13; v. 290; p. 422.

Rochfort, Alexander E., San Francisco, Calif. Fly-killers and flycatchers. No. 146,600; Sept. 13; v. 290; p. 422.

Ruglen, Rufus J., Detroit, Mich. Disinfectants, insecticides, and exterminators. No. 146,602; Sept. 13; v. 290; p. 422.

Runyan, Arthur L., Omaha, Nebr. Educational device. No. 146,603; Sept. 13; v. 290; p. 422.

Rutenber Electric Co., Marion, Ind. Electric toasters. No. 146,604; Sept. 13; v. 290; p. 422.

Seaboard and Inland Oil Corporation, Bloomsburg, Pa. Lubricating oils and greases. No. 146,605; Sept. 13; v. 290; p. 422.

Seamless Rubber Company, Inc., The, New Haven, Conn. Rubber hot-water bags or bottles. No. 146,606; Sept. 13; v. 290; p. 422.

Shapleigh Hardware Company, St. Louis, Mo. Certain cutlery, machines, and tools. No. 146,607; Sept. 13; v. 290; p. 422.

Singer Manufacturing Company, The, Elizabeth, N. J., and New York, N. Y. Electric motors and controllers therefor. No. 146,608; Sept. 13; v. 290; p. 422.

State of New York, Saratoga Springs, N. Y. Natural mineral water. Nos. 146,609–11; Sept. 13; v. 290; p. 422.

Tractor Appliance Company, The, New Holstein, Wis. Governors, &c., for internal-combustion engines. No. 146,612; Sept. 13; v. 290; p. 423.

Tuttle, Jason H., New York, N. Y. Metal castings for dental work, consisting of bridges, crowns, inlays, and plates. No. 146,613; Sept. 13; v. 290; p. 423.

Union Broach Co., Inc., New York, N. Y. Mouth-mirrors. No. 146,614; Sept. 13; v. 290; p. 423.

United States Playing Card Company, The, Cincinnati, Ohio. Playing-cards. No. 146,660; Sept. 13; v. 290; p. 429.

Unkefer Varnish Company, Chicago, Ill. Varnishes, fillers, stains, and varnish coatings. No. 146,615; Sept. 13; v. 290; p. 423.

Valdosta Retort Co., Valdosta, Ga. Retorts for distilling wood. No. 146,616; Sept. 13; v. 290; p. 423.

Van Zanten, M. Veldhuyzen, & Zonen, Lisse, Netherlands. Bulbs, plants, seed. No. 146,617; Sept. 13; v. 290; p. 423.

Victor Shoe Machinery Company, Lynn, Mass. Certain shoe machinery. No. 146,618; Sept. 13; v. 290; p. 423.

Ward Baking Company, New York, N. Y. Bread. No. 146,619; Sept. 13; v. 290; p. 423.

Washburn & Granger, Inc., New York, N. Y. Grates and incinerators. No. 146,661; Sept. 13; v. 290; p. 429.

Waterloo Saddlery Company, The, Waterloo, Iowa. Harness. No. 146,620; Sept. 13; v. 290; p. 423.

Welch, Gustin, Niagara Falls, N. Y. Inhalers. No. 146,621; Sept. 13; v. 290; p. 423.

Welever Piston Ring Company, The, Toledo, Ohio. Piston-rings. No. 146,622; Sept. 13; v. 290; p. 423.

Wellman-Seaver-Morgan Company, The, Cleveland, Ohio. Certain machinery. No. 146,623; Sept. 13; v. 290; p. 423.

West Michigan Steel Foundry Co., Muskegon, Mich. Carbonizing, annealing, tempering, and melting pots and boxes and metal crucibles for industrial purposes. No. 146,624; Sept. 13; v. 290; p. 423.

Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical apparatus. No. 146,662; Sept. 13; v. 290; p. 429.

White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Fibrous gold for filling teeth. No. 146,625; Sept. 13; v. 290; p. 423.

Whittall, M. J., Associates, Worcester, Mass. Wilton, Brussels, and plush rugs and carpets. No. 146,626; Sept. 13; v. 290; p. 423.

ALPHABETICAL LIST OF REGISTRANTS OF LABELS.

Brach, E. J., and Sons, Chicago, Ill. "Rastus 7—11." (For Candy.) No. 23,414; Sept. 13; v. 290; p. 431.

Bright Star Battery Co., New York, N. Y. "Bright Star." (For Dry-Cell Batteries.) No. 23,415; Sept. 13; v. 290; p. 431.

Burson Knitting Company, Rockford, Ill. "Burson Fashioned Hose." (For Cartons for Hosiery.) No. 23,416; Sept. 13; v. 290; p. 431.

Columbia Graphophone Company, New York, N. Y. "Columbia Exclusive Artist." (For Sound-Records of the Columbia Graphophone Company.) No. 23,417; Sept. 13; v. 290; p. 431.

Eze Products Company, Denver, Colo. "Eze Auto Polish." (For Liquid Auto-Polish.) No. 23,418; Sept. 13; v. 290; p. 431.

Fluno Co., Bridgeport, N. J. "Flunoine." (For Boxes, Bottles, Jars, and Packages Containing Emollient and Healing Medicaments as an Inhalent and a Rubefacient for Relief of Colds and Congestion in the Head, Throat, and Chest.) No. 23,419; Sept. 13; v. 290; p. 431.

Haeberlein, Walter J., Camden, N. J. "Kreem Nut." (For Oleomargarin.) No. 23,420; Sept. 13; v. 290; p. 431.

Kemling, F. Wm., Co., San Jose, Calif. "Prunes From Los Gatos." (For Boxes of Prunes.) No. 23,421; Sept. 13; v. 290; p. 431.

Krank, Alfred J., St. Paul, Minn. "Krank's In Vigorator." (For Bottles of Hair-Dresser.) No. 23,422; Sept. 13; v. 290; p. 431.

L. & R. Company, The, Providence, R. I. "Permanent Tip." (For Shoe-Laces.) No. 23,423; Sept. 13; v. 290; p. 431.

Malleable Iron Range Company, Beaver Dam, Wis. "Vitrifused Glass Coated Flues." (For Flue-Linings for Monarch Ranges.) No. 23,424; Sept. 13; v. 290; p. 431.

Mauer, Robert, Chino, Calif. "Lapidar." (For Goods Named Lapidar Which Consist of Medicinal Tablets Made of Herbs and Roots from the Swiss Alps.) No. 23,425; Sept. 13; v. 290; p. 431.

Menasha Printing and Carton Company, Menasha, Wis., assignor to Washington Dairy Company, Inc., Peoria, Ill. "Washington Brand Pure Creamery Butter." (For Cartons Containing Butter.) No. 23,426; Sept. 13; v. 290; p. 431.

Messing, Philip, Long Island City, N. Y. "Chocolate Cherries." (For Cartons Containing Chocolate Cherries.) No. 23,427; Sept. 13; v. 290; p. 431.

Morris, Mann & Reilly, Chicago, Ill. "Red Seal Rubber Baby Pants." (For Baby-Pants.) No. 23,428; Sept. 13; v. 290; p. 431.

Nicomora Products Company, The, Cleveland, Ohio. "The Smokers Gum." (For Chewing-Gum.) No. 23,429; Sept. 13; v. 290; p. 431.

Pacific Co-Operative Poultry Producers, Portland, Oreg. "Nu-Lade Eggs." (For Eggs.) No. 23,430; Sept. 13; v. 290; p. 431.

Park & Pollard Co., The, Boston, Mass. "Baby Buster." (For Chick Feed.) No. 23,431; Sept. 13; v. 290; p. 431.

Patent Cereals Company, The, Geneva, N. Y. "Sun-Seal Sunnycorn." (For a Breakfast Cereal Made of Corn.) No. 23,432; Sept. 13; v. 290; p. 431.

Seeds, F. E., Covington, Ky. "Seeds' Dressing." (For a Dressing for Floors, Interior Decorations, Automobiles.) No. 23,433; Sept. 13; v. 290; p. 431.

Steel, L. R., Company, Inc., Buffalo, N. Y. "Mary Lincoln." (For Candles.) No. 23,434; Sept. 13; v. 290; p. 431.

Stein, Leon, New York, N. Y. "Charm Onet." (For Hair-Nets.) No. 23,435; Sept. 13; v. 290; p. 431.

Sweet Candy Co., Salt Lake City, Utah. "Sweet's Salt Lake Brilliant Gloss Filled Candles." (For a Tin Containing Filled Candles.) No. 23,436; Sept. 13; v. 290; p. 431.

Washington Dairy Company. (See Menasha Printing and Carton Company, assignor.)

Weiss, Nathan, New York, N. Y. "Populaire." (For Cigars.) No. 23,437; Sept. 13; v. 290; p. 431.

Western Bottle Manufacturing Company, Chicago, Ill. "Gainsborough." (For Envelops Containing Hair-Nets.) No. 23,438; Sept. 13; v. 290; p. 431.

Wilhelm, Henry, Company, Pittsburgh, Pa. "Nuffibre." (For Prepared Moss.) No. 23,439; Sept. 13; v. 290; p. 431.

ALPHABETICAL LIST OF REGISTRANTS OF PRINTS.

Bracken Furnishing Goods Company, The, Kansas City, Mo. "Spark Plug." (For Advertising Purposes for Neckwear.) No. 5,751; Sept. 13; v. 290; p. 432.

Cryder, Floyd E., Chicago, Ill. "Sterling Milk." (For Advertising Purposes for Milk.) No. 5,752; Sept. 13; v. 290; p. 432.

Deubener, Walter H., St. Paul, Minn. "Kash Karry Koffee." (For Containers or Bags for Advertising Coffee.) No. 5,753; Sept. 13; v. 290; p. 432.

Fairbank, N. K., Company, The, Chicago, Ill. "5¢ Will Still Buy Gold Dust—for Your Spring Cleaning." (For Advertising Gold Dust Washing-Powder.) No. 5,754; Sept. 13; v. 290; p. 432.

Green, Elizabeth R., Washington, D. C. "Betty Allen." (For Advertising Purposes for Ladies' Gowns.) No. 5,755; Sept. 13; v. 290; p. 432.

Greist Manufacturing Company, The. (See Penn, A. C., Inc., assignor.)

Haynes Automobile Company, The, Kokomo, Ind. "Haynes Character Cars." (For Advertising Purposes for Automobiles.) No. 5,756; Sept. 13; v. 290; p. 432.

Kirk, James S., Company, Chicago, Ill. "Glorious Hair." (For Advertising Kirk's "Jap Rose" Soap.) No. 5,757; Sept. 13; v. 290; p. 432.

Kirk, James S., Company, Chicago, Ill. "The Wonder Soap." (For Advertising Kirk's Original Cocoa Hardwater Castile Soap.) No. 5,758; Sept. 13; v. 290; p. 432.

Kirk, James S., Company, Chicago, Ill. "A Beautiful Skin." (For Advertising Kirk's "Jap Rose" Soap.) No. 5,759; Sept. 13; v. 290; p. 432.

Morrison-Ricker Mfg. Company, Grinnell, Iowa. "Grinnell Gloves, 'Best for Every Purpose.'" (For Advertising Purposes for Gloves.) Nos. 5,760–3; Sept. 13; v. 290; p. 432.

Peck, A. E., Manufacturing Co., Minneapolis, Minn. "Dr. Peck's Py-Zo-Sis Tooth Brush." (For Advertising Purposes for Toothbrushes.) No. 5,766; Sept. 13; v. 290; p. 432.

Penn, A. C., Inc., New York, N. Y., assignor to The Greist Manufacturing Company. "Penn Double Bevel Blade." (For Advertising Purposes for Safety-Razor Blades.) No. 5,764; Sept. 13; v. 290; p. 432.

Reo Motor Car Co., Lansing, Mich. "Speed Wagon." (For Advertising Purposes for Motor-Trucks.) No. 5,765; Sept. 13; v. 290; p. 432.

Schieren, Chas. A., Company, New York, N. Y. "Duxbak Steamproof Nutan." (For Advertising Purposes for an Article of Manufacture—viz., Leather Belting.) No. 5,767; Sept. 13; v. 290; p. 432.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Belting Co., Boston, Mass. Oil-gages. No. 148,190; Sept. 13; v. 290; p. 407.

Adlerika Company, The, St. Paul, Minn. Tablet form of cathartic and laxative preparation. No. 148,193; Sept. 13; v. 290; p. 407.

Altwein, Oscar R., Asheville, N. C. Hair-straightening combs. No. 145,867; Sept. 13; v. 290; p. 402.

American Bleached Goods Company, New York, N. Y.; Chicago, Ill., and St. Louis, Mo. Cotton goods in the piece. No. 137,692; Sept. 13; v. 290; p. 396.

American Milk Products Corporation, New York, N. Y. Canned evaporated milk and canned condensed milk. No. 127,882; Sept. 13; v. 290; p. 394.

Armor Oil & Chemical Co., Kansas City, Mo. Lubricating oils and greases. No. 147,758; Sept. 13; v. 290; p. 405.

Armor Oil & Chemical Co., Kansas City, Mo. Paints. No. 147,757; Sept. 13; v. 290; p. 405.

Aultman, Inc., Milwaukee, Wis. Signs of a structural or mechanical nature. No. 148,049; Sept. 13; v. 290; p. 406.

Automobile Appliance Company, Boston, Mass. Reserve-providers for gasolene and other liquid-fuel tanks of internal-combustion engines. No. 145,148; Sept. 13; v. 290; p. 401.

Benson, E. R., Manufacturing Co., Portland, Me. Devices for locating cause of knocks or sounds produced by defects in operating mechanism of automobiles, &c. No. 150,504; Sept. 13; v. 290; p. 414.

Bieganowski, Stanley, Chicago, Ill. Hair-restorer. No. 148,969; Sept. 13; v. 290; p. 410.

Biochemical Food Products Corporation, Chicago, Ill. General tonic and tissue-building preparation. No. 142,324; Sept. 13; v. 290; p. 399.

Bissell Carpet Sweeper Co., Grand Rapids, Mich. Toy carpet-sweepers. No. 147,334; Sept. 13; v. 290; p. 404.

Blatchford Calf Meal Company, Waukegan, Ill. Food for hogs or swine. No. 137,063; Sept. 13; v. 290; p. 396.

Bond, Chas. K., San Francisco, Calif. Complexion-powder. No. 148,965; Sept. 13; v. 290; p. 410.

Boyle, John, & Company Incorporated, New York, N. Y. Cotton ducks and drills, muslins, calicoes, &c. No. 148,793; Sept. 13; v. 290; p. 409.

Brager Bros., New York, N. Y. Garment-hangers. No. 144,799; Sept. 13; v. 290; p. 400.

Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Machines for cleaning lawn-surfaces. No. 97,175; Sept. 13; v. 290; p. 393.

Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. No. 97,177; Sept. 13; v. 290; p. 393.

Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. No. 97,180; Sept. 13; v. 290; p. 393.

Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. No. 97,185; Sept. 13; v. 290; p. 393.

Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. No. 97,187; Sept. 13; v. 290; p. 393.

Braun, John, & Sons, assignors to Pennsylvania Lawn Mower Works, Philadelphia, Pa. Lawn-mowers. Nos. 97,189–90; Sept. 13; v. 290; p. 394.

Brennan Packing Co., Chicago, Ill. Packing-house products—viz., bacon, fat-backs, butts, plates, &c. No. 141,624; Sept. 13; v. 290; p. 399.

British America Paint Company Limited, Victoria, British Columbia, Canada. Shingle-stain, ready-mixed paint, varnish. No. 147,912; Sept. 13; v. 290; p. 406.

Bruckner, Henry, New York, N. Y. Non-alcoholic, non-cereal, maltless beverages. No. 148,198; Sept. 13; v. 290; p. 407.

Bruning, William H., Evansville, Ind. Coffee. No. 137,164; Sept. 13; v. 290; p. 396.

Burnstine and Nachman, New York, N. Y. Notions and general merchandise. No. 137,819; Sept. 13; v. 290; p. 397.

Burlingame, Ira L., St. Louis, Mo. Water-bag journal-coolers. No. 140,897; Sept. 13; v. 290; p. 398.

Calco Chemical Company, The, Boundbrook, N. J. Medicinal preparation for use as external disinfectant—viz., mouth-wash, &c. No. 148,316; Sept. 13; v. 290; p. 407.

California Grape Products Co., Ukiah, Calif. Non-alcoholic beverage and syrup for making same. No. 145,740; Sept. 13; v. 290; p. 401.

Camp, Dr. Charles D., Company, Chicago, Ill. Emulsifier of essential oils. No. 148,127; Sept. 13; v. 290; p. 406.

Carter, A. H., Limited, Bristol, England. Artificial fertilizers. No. 145,550; Sept. 13; v. 290; p. 401.

Cartier, Inc., New York, N. Y. Purses and pocketbooks. No. 144,963; Sept. 13; v. 290; p. 401.

Central Adhesive Company, Chicago, Ill. Vegetable glue and paste for paper-box manufacturing, &c. No. 149,170; Sept. 13; v. 290; p. 411.

Chew't Company, Cincinnati, Ohio. Combination of chicle and essence of tobacco. No. 133,402; Sept. 13; v. 290; p. 395.

Christie Film Company Inc., Los Angeles, Calif. Motion-pictures. No. 147,860; Sept. 13; v. 290; p. 405.

Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, &c. No. 148,211; Sept. 13; v. 290; p. 407.

Clifton Mfg. Company, Waco, Texas. Tents, awnings, paulins, tarpaulins, textile waterproof wagon-covers. Nos. 148,200–4; Sept. 13; v. 290; p. 407.

Clyde Collins Company, Inc., The, Memphis, Tenn. Aphrodisiac. No. 148,431; Sept. 13; v. 290; p. 408.

Cohen, Samuel, Philadelphia, Pa. Motion and still picture films. No. 149,125; Sept. 13; v. 290; p. 410.

Cross Rod & Tackle Co., Lynn, Mass. Shafts for golf-clubs. No. 147,502; Sept. 13; v. 290; p. 404.

Crazy Well Water Company of Mineral Wells, The, Mineral Wells, Tex. Concentrated natural mineral water. No. 148,059; Sept. 13; v. 290; p. 406.

Curd and Blakemore Co. Inc., Louisville, Ky. Table-syrups. No. 144,448; Sept. 13; v. 290; p. 400.

Cyclone Manufacturing Co. Inc., Urbana, Ind. Poultry and stock feeders and fountains. No. 144,220; Sept. 13; v. 290; p. 400.

Dahl, H. Geo., Oakland, Calif. Hand-soap. No. 141,363; Sept. 13; v. 290; p. 399.
De Long Hook and Eye Company, The, Philadelphia, Pa. Snap-fasteners. Nos. 147,601–2; Sept. 13; v. 290; p. 405.
Detroit Graphite Company, Detroit, Mich. Paints and paint enamels. No. 141,251; Sept. 13; v. 290; p. 398.
Diamond Whip Company, Chicago, Ill. Whips. No. 139,853; Sept. 13; v. 290; p. 397.
Dicks, Robert P., New York, N. Y. Dyeing, coloring, and tinting compositions. No. 148,019; Sept. 13; v. 290; p. 406.
Donnelley, Julia, New York, N. Y. Chocolate candies. No. 147,956; Sept. 13; v. 290; p. 406.
Dorros Bros, Incorporated, New York, N. Y. Veils and veiling piece goods. No. 147,097; Sept. 13; v. 290; p. 404.
Dory, Paul G., Watertown, S. D. Non-alcoholic, maltless beverage, and syrups for making same. No. 143,351; Sept. 13; v. 290; p. 399.
Dresden Baking Powder Company, Zanesville, Ohio. Baking-powder. No. 146,694; Sept. 13; v. 290; p. 402.
Dukes, Newton A., New York, N. Y. Series of text-books. No. 147,282; Sept. 13; v. 290; p. 404.
Dunn, John, Son & Co., New York, N. Y. Cotton duck in the piece. No. 140,876; Sept. 13; v. 290; p. 398.
Educational Films Corporation of America, New York, N. Y. Motion-pictures. No. 147,870; Sept. 13; v. 290; p. 406.
Electrox Company, Peoria, Ill. Edible vegetable oils, cooking oils, salad-oils, &c. Nos. 141,252–4; Sept. 13; v. 290; p. 398.
Erwin Cotton Mills Co., The, West Durham, N. C. Denims in the piece. No. 137,454; Sept. 13; v. 290; p. 396.
Evans, Henry, Washington, D. C. Solution for cleaning kid gloves, &c. No. 149,739; Sept. 13; v. 290; p. 412.
Fables Pictures Inc., New York, N. Y. Animated cartoons, some being motion-picture films. Nos. 148,727–8; Sept. 13; v. 290; p. 409.
Federal Rubber Company, Cudahy, Wis. Hoof-pads. No. 146,880; Sept. 13; v. 290; p. 403.
Federal Rubber Company, Cudahy, Wis. Hoof-pads. No. 146,887; Sept. 13; v. 290; p. 403.
Federal Rubber Company, Cudahy, Wis. Hoof-pads. No. 146,894; Sept. 13; v. 290; p. 403.
Flores, Rodolfo, Sedalia, Mo. Powder soap for affections of the skin. No. 149,581; Sept. 13; v. 290; p. 412.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. Nos. 150,597–602; Sept. 13; v. 290; p. 414.
Glass, Henry, & Co., New York, N. Y. Plain woven and printed cotton piece goods. No. 150,859; Sept. 13; v. 290; p. 416.
Goheen Corporation, The, Wilmington, Del., and Newark, N. J. Liquid paint for coating plastic concrete, &c. No. 148,998; Sept. 13; v. 290; p. 410.
Goldsmith, L., & Son, Newark, N. J. Trunks. No. 146,209; Sept. 13; v. 290; p. 402.
Heiss, Melvin W., New York, N. Y. Men's, women's, and children's handkerchiefs. No. 149,963; Sept. 13; v. 290; p. 413.
Hendler Creamery Company, Baltimore, Md. Title for a monthly publication. No. 139,273; Sept. 13; v. 290; p. 397.
Hewitt Bros. Soap Company, The, Dayton, Ohio. Laundry and clothes-washing preparation. No. 138,226; Sept. 13; v. 290; p. 397.
Hindle, Charles F., New York, N. Y. String-galvanometers and photographic recording and projecting apparatus for same. No. 132,358; Sept. 13; v. 290; p. 395.
Hite, S. P., Company, Inc., Roanoke, Va. Ammonia, asthma and catarrh powders, bay-rum, cold-cream, &c. No. 146,764; Sept. 13; v. 290; p. 403.
Hoffmanns, William M., Philadelphia, Pa. Rag-rugs and carpets. No. 148,737; Sept. 13; v. 290; p. 409.
Hollingshead, R. M., Co., The, Camden, N. J. Flake-graphite, mica, and soapstone. No. 149,133; Sept. 13; v. 290; p. 410.
Holophane Glass Company, New York, N. Y. Annual catalogue. No. 135,241; Sept. 13; v. 290; p. 395.
Hope Webbing Company, Inc., Pawtucket, R. I. Elastic webbing. No. 150,681; Sept. 13; v. 290; p. 415.
Independent Breweries Company, St. Louis, Mo. Root-beer. No. 151,274; Sept. 13; v. 290; p. 416.
Interstate Shade Cloth Co., Hoboken, N. J. Hand-painted shade-cloth. No. 147,200; Sept. 13; v. 290; p. 404.
Interstate Shade Cloth Co., Hoboken, N. J. Self-acting spring shade-roller. No. 147,199; Sept. 13; v. 290; p. 404.
Jacobs, Jacob M., Paterson, N. J. Medicinal preparation for removing corns, callouses, and warts. No. 129,933; Sept. 13; v. 290; p. 394.
Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. No. 150,864; Sept. 13; v. 290; p. 416.
Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. No. 150,867; Sept. 13; v. 290; p. 416.
Johnson, Clarence P., Sheldon, Ill. Soft drink. No. 146,561; Sept. 13; v. 290; p. 402.
Kawasaki, Utakichi, San Francisco, Calif. Toy automobiles. No. 144,459; Sept. 13; v. 290; p. 400.
Kelley, Grant S., Inc., New York, N. Y. Woolen piece goods. No. 150,453; Sept. 13; v. 290; p. 413.
Kellogg, H., & Sons, Philadelphia, Pa. Grape-juice, ginger-ale, sarsaparilla, &c. No. 149,757; Sept. 13; v. 290; p. 412.
Ken-Wel Sporting Goods Co., Gloversville, N. Y. Baseball gloves and mitts, boxing-gloves, &c. No. 147,027; Sept. 13; v. 290; p. 403.
Keystone Hair Net Imp. Corp., New York, N. Y. Hair-nets. No. 150,753; Sept. 13; v. 290; p. 415.
Keystone Hair Net Imp. Corp., New York, N. Y. Hair-nets. No. 150,816; Sept. 13; v. 290; p. 416.
Kimbell, William A., Atlanta, Ga. Preparation for relief of headache, neuralgia, &c. No. 148,078; Sept. 13; v. 290; p. 406.
Kimmerle Bros., San Francisco, Calif. Tools for handling disabled vehicles—viz., wrecking-jacks, &c. No. 137,942; Sept. 13; v. 290; p. 397.
King, Elmer H., Boston, Mass. Woolen, worsted, mohair, &c., piece goods. No. 149,913; Sept. 13; v. 290; p. 412.
Klar, Adolph, New York, N. Y. Hair-nets. Nos. 150,685–7; Sept. 13; v. 290; p. 415.
Klar, Adolph, New York, N. Y. Hair-nets. Nos. 150,751–2; Sept. 13; v. 290; p. 415.
Klens-Zol Co., The, Glenn, Mich. Automobile and furniture cleaner and polish. No. 147,350; Sept. 13; v. 290; p. 404.
Kloss, A. F., Co., Scranton, Pa. Non-alcoholic non-cereal maltless beverages and syrups for making same. No. 144,815; Sept. 13; v. 290; p. 400.
Laboratorium "Leo," Dr. Phil, Ottomar Heinsius v. Mayenburg, Dresden, Germany. Tooth pastes, powder, and wash. No. 147,033; Sept. 13; v. 290; p. 403.
Lewis, John, & Company, Spokane, Wash. Packing-house products. No. 125,571; Sept. 13; v. 290; p. 394.
Lichtenstein, Marvin, & Bro., New York, N. Y. Fur buttons. No. 146,638; Sept. 13; v. 290; p. 402.
Lopez & Co., Philadelphia, Pa. Macaroni. No. 144,923; Sept. 13; v. 290; p. 401.
Los Angeles Ice & Cold Storage Company, Los Angeles, Calif. Maltless, non-cereal beverages. No. 150,545; Sept. 13; v. 290; p. 414.
Lowrie, Alfred H., Hartford, Conn. Anointing oil and ointment for rheumatism, neuritis, &c. No. 148,028; Sept. 13; v. 290; p. 406.
Marcy, Ira, Oil City, Pa. Cement glue for gluing china, glassware, wood, &c. No. 145,113; Sept. 13; v. 290; p. 401.
Mastodon Films Inc., New York, N. Y. Motion-picture and stereopticon films. No. 148,544; Sept. 13; v. 290; p. 408.
Mastodon Films Inc., New York, N. Y. Motion-picture films and films for stereopticon projections. No. 150,759; Sept. 13; v. 290; p. 415.
Matthews, H. Paul, Baltimore, Md. Butter, lard, and sausage. No. 145,751; Sept. 13; v. 290; p. 401.
McAdam, Charles, Company, Chicago, Ill. Soap. No. 141,686; Sept. 13; v. 290; p. 399.
Melba Manufacturing Company, Chicago, Ill. Hair-nets. No. 150,697; Sept. 13; v. 290; p. 415.
Mergott, J. E., Company, The, Newark, N. J. Bag, purse, and pocket-book frames. No. 146,125; Sept. 13; v. 290; p. 402.
Monaghan, Victor, Company, Greenville, S. C. Cotton piece goods. No. 150,644; Sept. 13; v. 290; p. 415.
Monmouth County Farmers' Exchange, Freehold, N. J. Commercial fertilizers. No. 150,323; Sept. 6; v. 290; p. 413.
Mutual Orange Distributors, Redlands, Calif. Fresh citrus fruits. No. 146,570; Sept. 13; v. 290; p. 402.
Mutual Paint Company, St. Paul, Minn. Ready-mixed paints, varnishes, and paint enamels. No. 140,047; Sept. 13; v. 290; p. 397.
Narrow Fabric Co., The, West Reading Borough, near Reading, Pa. Elastic braids. No. 149,144; Sept. 13; v. 290; p. 411.
National Baking Company, Seattle, Wash. Bread. No. 143,994; Sept. 13; v. 290; p. 400.
Nyal Company, Detroit, Mich. Toilet preparations. No. 130,547; Sept. 13; v. 290; p. 395.
Neuss, Hesslein & Co. Inc., New York, N. Y. Woven cotton piece goods. No. 143,829; Sept. 13; v. 290; p. 400.
Newark Tortoise Shell Novelty Co., Newark, N. J. Hand-mirrors, and picture-frames. No. 135,526; Sept. 13; v. 290; p. 395.
Newberry & Nichols, New York, N. Y. Indicating-thermometers. No. 150,629; Sept. 13; v. 290; p. 414.
Nuro Silver Co., Burkeville, Va. Cleansing preparation for silverware, cut-glass, &c. No. 148,564; Sept. 13; v. 290; p. 409.
Omnia Import Corporation, New York, N. Y. Moving-picture film. No. 150,974; Sept. 13; v. 290; p. 416.
Osterweil Bros. Inc., Newark, N. J. Trunks. No. 150,285; Sept. 13; v. 290; p. 413.
Owl Specialty Co., The, Paterson, N. J. Dress and skirt belting and bindings. No. 147,733; Sept. 13; v. 290; p. 405.
Paristyle Novelty Co. Inc., New York, N. Y. Hair-nets. No. 150,631; Sept. 13; v. 290; p. 414.
Penn Rivet Corporation, Philadelphia, Pa. Snap-fasteners. No. 151,285; Sept. 13; v. 290; p. 416.
Penn Rivet Corporation, Philadelphia, Pa. Safety-pins. No. 151,286; Sept. 13; v. 290; p. 416.

Penn Rivet Corporation, Philadelphia, Pa. Snap-fasteners. No. 151,375; Sept. 13; v. 290; p. 417.
Penn Rivet Corporation, Philadelphia, Pa. Safety-pins. No. 151,376; Sept. 13; v. 290; p. 417.
Pennsylvania Lawn Mower Works. (See Braun, John, & Sons, assignors.)
Peterson, John, Hoboken, N. J. Trunks. No. 150,023; Sept. 13; v. 290; p. 413.
Polisheen Manufacturing Company, Newport, R. I. Automobile, &c., polish, floor-wax, cleaning compound. No. 150,201; Sept. 13; v. 290; p. 413.
Portland Cordage Co., The, Portland, Oreg. Lariat-ropes. No. 150,465; Sept. 13; v. 290; p. 413.
Portland Cordage Co., The, Portland, Oreg. Transmission-rope. No. 150,467; Sept. 13; v. 290; p. 413.
Ralstin, Colin C., Stillwater, Okla. Ointment or salve for external treatment of sores, burns, itch. No. 147,048; Sept. 13; v. 290; p. 403.
Remar Company, The, Oakland, Calif. Bakery products. No. 122,999; Sept. 13; v. 290; p. 394.
Richardson Corporation, Rochester, N. Y. Orange syrup used in making soft drinks. No. 145,363; Sept. 13; v. 290; p. 401.
Roberts & Monroe, Inc., New York, N. Y. Force-feed lubricators. No. 138,236; Sept. 13; v. 290; p. 397.
Ross Gould Company, St. Louis, Mo. Filing-receptacles. No. 139,053; Sept. 13; v. 290; p. 397.
Rub-No-More Company, The, Fort Wayne, Ind. Soap and soap products. No. 137,631; Sept. 13; v. 290; p. 396.
Rusk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Motor-oil. No. 140,546; Sept. 13; v. 290; p. 397.
Russell Manufacturing Co., The, Middletown, Conn. Dress-belting. No. 151,291; Sept. 13; v. 290; p. 416.
Russell Miller Milling Co., Minneapolis, Minn. Wheat-flour. No. 141,130; Sept. 13; v. 290; p. 398.
Sabatella, Antonio, Curitiba, Parana, Brasil. Medicine for treatment of rheumatism and arthritism. No. 137,187; Sept. 13; v. 290; p. 396.
San Antonio Beverage Syrup Co., San Antonio, Tex. Maltless, non-intoxicating beverage and syrup for making same. No. 151,292; Sept. 13; v. 290; p. 416.
Schaefer Tent & Awning Co., The, Denver, Colo. Auto porch-beds, a portable and serviceable bed carried with automobiles. No. 134,922; Sept. 13; v. 290; p. 395.
Schutter Johnson Candy Co., Chicago, Ill. Candy. No. 147,374; Sept. 13; v. 290; p. 404.
Service Studios, Chicago, Ill. Theatrical scenery and window backgrounds. No. 149,035; Sept. 13; v. 290; p. 410.
Sidenberg, G., & Co., New York, N. Y. Ruffings and plaitings for neckwear and trimmings. No. 149,865; Sept. 13; v. 290; p. 412.
Simonson, Rogers & Jaeger, Inc., New York, N. Y. Linings in the piece for men's wear. No. 149,781; Sept. 13; v. 290; p. 412.
Sleep-Well Mattress Co., Chicago, Ill. Mattress. No. 148,903; Sept. 13; v. 290; p. 410.
Southwestern Pharmacal Company, Dallas, Tex. Antispasmodic and sedative preparations. No. 148,898; Sept. 13; v. 290; p. 409.
Spyrosal Manufacturing Company, St. Louis, Mo. Piston-rings. No. 149,297; Sept. 13; v. 290; p. 411.
State of New York, Saratoga Springs, N. Y. Natural mineral water. No. 151,066; Sept. 13; v. 290; p. 416.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. Nos. 151,384–6; Sept. 13; v. 290; p. 417.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. Nos. 151,389–406; Sept. 13; v. 290; pp. 417–19.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. No. 151,412; Sept. 13; v. 290; p. 419.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. Nos. 151,416–17; Sept. 13; v. 290; p. 419.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. Nos. 151,419–22; Sept. 13; v. 290; pp. 419–20.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting, particularly glazed cotton wadding. Nos. 151,426–7; Sept. 13; v. 290; p. 420.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting, particularly glazed cotton wadding. No. 151,431; Sept. 13; v. 290; p. 420.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting, particularly glazed cotton wadding. No. 151,433; Sept. 13; v. 290; p. 420.
Stetson, Walter E., Somerville, Mass. Cotton duck in the piece. No. 149,296; Sept. 13; v. 290; p. 411.
Suregrow Hair Tonic Company, New York, N. Y. Hair-tonic. No. 148,242; Sept. 13; v. 290; p. 407.
Swett, Dr., Root Beer, Inc., Boston, Mass. Root-beer. No. 148,514; Sept. 13; v. 290; p. 408.
Tagit Company, The, Rockford, Ill. Tags. No. 118,407; Sept. 13; v. 290; p. 394.
Take-a-Tik Co., Bridgeton, N. J. Car or other ticket holders. No. 147,645; Sept. 13; v. 290; p. 405.
Testall Electric Manufacturing Co., San Antonio, Tex. Electrical testing devices. No. 143,899; Sept. 13; v. 290; p. 400.
Turner, Halsey Company, New York, N. Y. Cotton textiles in the piece. No. 149,301; Sept. 13; v. 290; p. 411.
Tusuline Company, Akron, Ohio. Coating for wood and masonry to preserve, harden, and waterproof same. No. 147,536; Sept. 13; v. 290; p. 405.
United Electric Company, The, Canton, Ohio. Monthly publication. No. 146,853; Sept. 13; v. 290; p. 403.
Van Dyk and Reeves, Brooklyn, N. Y. Fresh dates. No. 143,071; Sept. 13; v. 290; p. 399.
Van Rouge Co., Inc., Minneapolis, Minn. Non-alcoholic, non-cereal, maltless beverage and syrup for making same. No. 148,465; Sept. 13; v. 290; p. 408.
Vino Medical Co. Inc., New York, N. Y. Tonic for diabetics. No. 149,045; Sept. 13; v. 290; p. 410.
Wabash Basket Company, Marion, Swayzee, Converse, Bunker Hill, and Somerset, Ind. Various kinds of baskets. No. 144,758; Sept. 13; v. 290; p. 400.
Wade, L. B., Co., Boston and Lynn, Mass. Polish for use on automobiles, furniture, &c. No. 140,821; Sept. 13; v. 290; p. 398.
Waddington Condensed Milk Co., Inc., Waddington, N. Y. Unsweetened evaporated milk. No. 147,145; Sept. 13; v. 290; p. 404.
Wagner's, W. T., Sons Co., Cincinnati, Ohio. Non-alcoholic, maltless, minted lime beverage. No. 149,161; Sept. 13; v. 290; p. 411.
Wander Company, Chicago, Ill. Crystalline malt extract with pure liquid paraffin. No. 148,470; Sept. 13; v. 290; p. 408.
Weese, R. T., Hearne, Tex. Preparation for the treatment of dandruff and the scalp. No. 148,468; Sept. 13; v. 290; p. 408.
Wheeling Corrugating Company, Wheeling, W. Va. Sheet-metal receptacles and containers. No. 143,023; Sept. 13; v. 290; p. 399.
Wile, Julius, Sons & Co., New York, N. Y. Elastic webbing. No. 149,257; Sept. 13; v. 290; p. 411.
Wilk, Benjamin, New York, N. Y. Monthly publications. No. 149,720; Sept. 13; v. 290; p. 412.
Will Corporation, The, Rochester, N. Y. Instruments used for the measurement of hydrogen ions. No. 149,943; Sept. 13; v. 290; p. 412.
Williamsport Wire Rope Co., Williamsport, Pa. Wire rope. Nos. 137,054–5; Sept. 13; v. 290; pp. 395–6.
Wilson, Frederick S., Chicago, Ill. Liquid preparation for the reproduction and preservation of typewriter-platens. No. 148,568; Sept. 13; v. 290; p. 409.
Wilson, John, Sacramento, Calif. Soft-soap cleanser. No. 148,521; Sept. 13; v. 290; p. 408.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 13TH DAY OF SEPTEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abrading-machine. W. H. Smith. No. 1,390,828; Sept. 13; v. 290; p. 346.
Acid and extracts, Production of tannic. F. Langford. No. 1,390,796; Sept. 13; v. 290; p. 340.
Acid manufacture. P. W. Webster. No. 1,390,410; Sept. 13; v. 290; p. 262.
Adhesive cements, &c., Damper for moistening. H. B. and M. G. Rogers. No. 1,390,547; Sept. 13; v. 290; p. 290.
Aeroplane. M. Golein. No. 1,390,901; Sept. 13; v. 290; p. 362.
Aeroplane-wing. W. E. Knoell. No. 1,390,563; Sept. 13; v. 290; p. 293.
Air-cooling system. E. H. Armes. No. 1,390,862; Sept. 13; v. 290; p. 353.
Aircraft of the lighter-than-air type. L. M. Armstrong. No. 1,390,745; Sept. 13; v. 290; p. 330.
Aircraft, Steering device for. L. B. Sperry. No. 1,390,653; Sept. 13; v. 290; p. 312.
Ammonia, Making. K. P. McElroy. No. 1,390,533; Sept. 13; v. 290; p. 287.
Amusement device. S. Jacobs. No. 1,390,789; Sept. 13; v. 290; p. 339.
Animal-trap. J. Michalczak. No. 1,390,805; Sept. 13; v. 290; p. 342.
Antiseptic case and surgical knife, Combined. H. K. Powers. No. 1,390,720; Sept. 13; v. 290; p. 324.
Antiskidding device. T. V. Elliott. No. 1,390,893; Sept. 13; v. 290; p. 360.
Antislip rope and cable clamp. H. A. Stork. No. 1,390,654; Sept. 13; v. 290; p. 313.
Arch-support. A. Ruhl. No. 1,390,817; Sept. 13; v. 290; p. 345.
Arsenate of lead and making same, Suspended. C. H. Sakryd and H. M. Rosencrans. No. 1,390,647; Sept. 13; v. 290; p. 312.
Arsenate of lead and making same, Suspended. C. H. Sakryd and H. M. Rosencrans. No. 1,390,648; Sept. 13; v. 290; p. 312.
Ash-pan. W. J. McCollom. No. 1,390,455; Sept. 13; v. 290; p. 271.
Auto-license holder. P. J. Speicher. No. 1,390,732; Sept. 13; v. 290; p. 327.
Auto-light control. W. H. Stockton. No. 1,390,937; Sept. 13; v. 290; p. 369.
Automatic call system for hotels. A. H. Heyroth. No. 1,390,907; Sept. 13; v. 290; p. 363.
Automatic productive-hen-selecting apparatus. K. Arak. No. 1,390,860; Sept. 13; v. 290; p. 353.
Automobile attachment. C. M. Elermann. No. 1,390,433; Sept. 13; v. 290; p. 266.
Automobile clutch-stabilizer and control-silencer. J. W. Harbaugh. No. 1,390,954; Sept. 13; v. 290; p. 373.
Automobile gasolene-lock, Three-valve. S. B. Andrzejewski. No. 1,390,859; Sept. 13; v. 290; p. 363.
Automobile-hood. P. Kern. No. 1,390,295; Sept. 13; v. 290; p. 240.
Automobile-license light, Combination tail and. C. Ring. No. 1,390,927; Sept. 13; v. 290; p. 367.
Automobile-lock. H. N. Lee. No. 1,390,913; Sept. 13; v. 290; p. 364.
Automobile-radiator. G. L. Lake. No. 1,390,794; Sept. 13; v. 290; p. 340.
Automobile-spring. J. E. Barry. No. 1,390,326; Sept. 13; v. 290; p. 246.
Automobile-top. A. D. Hedges. No. 1,390,555; Sept. 13; v. 290; p. 292.
Automobile-top. A. D. Hedges. No. 1,390,556; Sept. 13; v. 290; p. 292.
Automobile-top. A. D. Hedges. No. 1,390,557; Sept. 13; v. 290; p. 292.
Automobile-top, Folding. A. D. Hedges. No. 1,390,554; Sept. 13; v. 290; p. 291.
Automobile-transportation support. W. A. Hansen. No. 1,390,530; Sept. 13; v. 290; p. 286.
Automobile vehicle. J. V. Carden. No. 1,390,672; Sept. 13; v. 290; p. 316.
Automobile vehicle, Rear-axle pulley-drive for. L. D. Sturm. No. 1,390,656; Sept. 12; v. 290; p. 313.
Automobile-wheels, Locking device for. A. M. Cummings. No. 1 390,674; Sept. 13; v. 290; p. 317.
Automobiles, Brake mechanism for. M. Moskowitz. No. 1,390,373; Sept. 13; v. 290; p. 254.
Automobiles, Bunker for. F. Gahm. No. 1,390,285; Sept. 13; v. 290; p. 238.
Automobiles, Luggage-carrier for. J. B. Rice. No. 1,390,387; Sept. 13; v. 290; p. 258.
Autotruck and wagon dump, Combination. P. W. Mann. No. 1,390,368; Sept. 13; v. 290; p. 253.
Awnings, Weather-shield for spring-shade. E. Gray. No. 1,390,527; Sept. 13; v. 290; p. 286.
Bait, Artificial. J. C. Caldwell. No. 1,390,601; Sept. 13; v. 290; p. 301.
Ball-marker. W. F. Reach. No. 1,390,926; Sept. 13; v. 290; p. 367.
Barrel-hoop machine. A. N. Eaton. No. 1,390,282; Sept. 13; v. 290; p. 237.
Bathtubs, Support for infants'. S. W. Jeffs. No. 1,390,444; Sept. 13; v. 290; p. 268.
Batteries and making, Separator for storage. D. F. Gould. No. 1,390,355; Sept. 13; v. 290; p. 251.
Batteries, Electroplate for storage. L. Lyndon. No. 1,390,629; Sept. 13; v. 290; p. 308.
Battery: *See*—
Electric battery. Galvanic battery.
Beam, girder, or the like. E. Luling and M. Baroni. No. 1,390,364; Sept. 13; v. 290; p. 253.
Bearing-lubricator. J. T. Janette. No. 1,390,443; Sept. 13; v. 290; p. 268.
Bearing, Suspension-. J. Parker. No. 1,390,582; Sept. 13; v. 290; p. 297.
Bearing, Thrust ball-. H. B. Keiper. No. 1,390,717; Sept. 13; v. 290; p. 324.
Bed-spring fabrics, Semi-automatic machine for forming. A. Rhenstrom. No. 1,390,814; Sept. 13; v. 290; p. 344.
Beet-topping device. G. R. and W. A. Hayes. No. 1,390,289; Sept. 13; v. 290; p. 239.
Beverages, Manufacturing cereal. R. S. Heuser. No. 1,390,711; Sept. 13; v. 290; p. 323.
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Well-drill socket. E. W. Bell. No. 1,390,750; Sept. 13; v. 290; p. 331.
Wells and pipe-lines, Oil-trap for. J. T. Kyle and V. W. Russell. No. 1,390,793; Sept. 13; v. 290; p. 340.
Wheel: *See*—
Drive-wheel. Paddle-wheel.
Gear-wheel. Vehicle-wheel.
Wheel. W. Z. Black and D. W. Butz. No. 1,390,871; Sept. 13; v. 290; p. 355.
Wheel construction. O. H. Johnson. No. 1,390,909; Sept. 13; v. 290; p. 363.
Wheel for road-vehicles. S. Penney. No. 1,390,970; Sept. 13; v. 290; p. 376.
Wheel lock, Steering-. R. T. Binder. No. 1,390,952; Sept. 13; v. 290; p. 372.
Wheel lock, Steering-. R. T. Binder. No. 1,390,953; Sept. 13; v. 290; p. 372.
Wick-carrier, Adjustable. M. Bolleau. No. 1,390,873; Sept. 13; v. 290; p. 355.
Window-ventilator. C. M. Buhrman. No. 1,390,878; Sept. 13; v. 290; p. 356.
Windshield. A. M. Southard. No. 1,390,652; Sept. 13; v. 290; p. 312.
Wire-drawing machine. H. W. Hodgson. No. 1,390,714; Sept. 13; v. 290; p. 323.
Wire-fence machine. A. G. Johnson. No. 1,390,293; Sept. 13; v. 290; p. 239.
Wire-rope socket. D. W. Snow. No. 1,390,830; Sept. 13; v. 290; p. 347.
Wrench: *See*—
End-wrench. Socket-wrench.
Wrench. F. C. Lyon, Sr. No. 1,390,917; Sept. 13; v. 290; p. 365.
Wrench. C. Meyer. No. 1,390,371; Sept. 13; v. 290; p. 254.
Wrench. S. Rood. No. 1,390,460; Sept. 13; v. 290; p. 272.
Yoke, Pulverizer-mill. E. H. Dimler. No. 1,390,431; Sept. 13; v. 290; p. 266.

ALPHABETICAL LIST OF DESIGNS.

Anklets. C. Tweedie. Nos. 59,044–6; Sept. 13; v. 290; p. 389.
Apron. M. M. Burke. No. 58,993; Sept. 13; v. 290; p. 379.
Automobile rear signaling device. H. A. Dever. No. 58,999; Sept. 13; v. 290; p. 380.
Bag-frame. E. Norman and R. A. Ames. No. 59,080; Sept. 13; v. 290; p. 386.
Batteries, Holddown-plate for. P. E. Norris. No. 59,028; Sept. 13; v. 290; p. 386.
Battery terminal, Storage-. P. M. Marko. No. 59,021; Sept. 13; v. 290; p. 384.
Beverage-dispensing apparatus. J. M. Travis. No. 59,043; Sept. 13; v. 290; p. 389.
Blouse, Child's. P. B. Hannaford. No. 59,005; Sept. 13; v. 290; p. 381.
Bonnet. K. M. Polhamus. No. 59,032; Sept. 13; v. 290; p. 387.
Boot-top. C. Tweedie. Nos. 59,047–8; Sept. 13; v. 290; p. 390.
Bow-clasp or similar article. H. Wellen. No. 59,050; Sept. 13; v. 290; p. 390.
Cabinet, Coal-. B. Campbell. No. 58,995; Sept. 13; v. 290; p. 380.
Cabinet, Kitchen-. E. S. Sutton. No. 59,041; Sept. 13; v. 290; p. 389.
Cabinet, Vending. J. I. Holcomb and J. F. Hoke, Jr. No. 59,006; Sept. 13; v. 290; p. 381.
Collar clasp, Soft-. H. Kapotkin. No. 59,009; Sept. 13; v. 290; p. 382.
Crockery and chinaware. R. E. Stuart. Nos. 59,038–9; Sept. 13; v. 290; p. 388.
Doll. U. Wilcox. No. 59,051; Sept. 13; v. 290; p. 391.
Fabric or similar article, Textile. H. L. Ransom and J. E. Emerson. No. 59,034; Sept. 13; v. 290; p. 387.
Fabric, Textile. J. H. Bunting. No. 58,992; Sept. 13; v. 290; p. 379.
Fabric, Textile. E. Krupicka. No. 59,014; Sept. 13; v. 290; p. 383.
Flag, banner, or similar article. H. P. Lane. No. 59,015; Sept. 13; v. 290; p. 383.
Frock, Child's. D. M. Smith. No. 59,037; Sept. 13; v. 290; p. 388.
Girdle, Lady's. A. B. Beck. No. 58,987; Sept. 13; v. 290; p. 378.
Handkerchief. C. L. Sumner. No. 59,040; Sept. 13; v. 290; p. 388.
Harness anchor, Safety-. G. F. Minnis. Nos. 59,026–7; Sept. 13; v. 290; pp. 385–6.
Hat-lining. J. W. Mason. No. 59,023; Sept. 13; v. 290; p. 385.
Inking-roller. L. La Tour and A. F. Munnell. No. 59,017; Sept. 13; v. 290; p. 383.
Inkwell. E. B. Goldstein. No. 59,004; Sept. 13; v. 290; p. 381.
Lace. H. Binch. Nos. 58,988–9; Sept. 13; v. 290; p. 379.
Lace. O. Brueggebors. Nos. 58,990–91; Sept. 13; v. 290; p. 379.
Lace. M. H. Daudy. No. 58,998; Sept. 13; v. 290; p. 380.
Lighting-fixture urn. H. C. Adam. No. 58,986; Sept. 13; v. 290; p. 378.
Lighting-fixture wall-plate. H. C. Adam. No. 58,985; Sept. 13; v. 290; p. 378.
Loom-picker. M. B. Fredericks. No. 59,003; Sept. 13; v. 290; p. 381.
Loom-picker, Protective cover for a. M. B. Fredericks. No. 59,002; Sept. 13; v. 290; p. 381.
Note, Bank-. A. S. Major. No. 59,019; Sept. 13; v. 290; p. 384.
Pen and pencil case. J. H. Worthy and C. W. Lund. No. 59,052; Sept. 13; v. 290; p. 391.
Pencil. W. A. Sheaffer. No. 59,035; Sept. 13; v. 290; p. 387.
Pencil-cap. E. E. Knisely. No. 59,013; Sept. 13; v. 290; p. 383.
Pin. M. Manfredy. No. 59,020; Sept. 13; v. 290; p. 384.
Quilt. F. G. Lentz. No. 59,018; Sept. 13; v. 290; p. 384.
Sandal. J. P. Burns. No. 58,994; Sept. 13; v. 290; p. 379.
Scales, Signboard for weighing-. K. G. Fisher. No. 59,001; Sept. 13; v. 290; p. 381.
Shirt, Night-. I. N. Kelley. No. 59,012; Sept. 13; v. 290; p. 383.
Shoe. F. Phillips. No. 59,031; Sept. 13; v. 290; p. 386.
Sign, Electric. M. Norden. No. 59,029; Sept. 13; v. 290; p. 386.
Sled, Bob-. E. S. Ensign. No. 59,000; Sept. 13; v. 290; p. 380.
Stand. J. D. Holmes. No. 59,007; Sept. 13; v. 290; p. 382.
Sunbonnet. K. M. Polhamus. No. 59,033; Sept. 13; v. 290; p. 387.
Tire. E. G. Weller. No. 59,049; Sept. 13; v. 290; p. 390.
Tire-core. C. D. McCollough. No. 59,024; Sept. 13; v. 290; p. 385.
Tire-tread. R. E. Cartlidge. Nos. 58,996–7; Sept. 13; v. 290; p. 380.
Tire-tread. J. F. Jamrowicz. No. 59,008; Sept. 13; v. 290; p. 382.
Tire-tread. H. H. Swan. No. 59,042; Sept. 13; v. 290; p. 389.
Toilet-receptacle, Top or bottom for. H. D. Mosauer. No. 59,022; Sept. 13; v. 290; p. 384.
Toy monkey. W. F. Keller. No. 59,011; Sept. 13; v. 290; p. 382.
Trimming for fabrics and like material. R. Kehr. No. 59010; Sept. 13; v. 290; p. 382.
Vase. F. H. La Pierre. No. 59,016; Sept. 13; v. 290; p. 383.
Vase. M. Sherman. No. 59,036; Sept. 13; v. 290; p. 387.
Watch and key-ring strap, Combined. D. R. McCullough. No. 59,025; Sept. 13; v. 290; p. 385.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antiseptic powder for relieving burns. J. Pagnotta. No. 146,658; Sept. 13; v. 290; p. 429.
Arch-supporters and bunion-protectors. Lynn Rubber Manufacturing Company. No. 146,587; Sept. 13; v. 290; p. 422.
Automobile-tops. American Auto Top Company. No. 146,627; Sept. 13; v. 290; p. 425.
Automobile-windows. L. C. Myers. No. 146,654; Sept. 13; v. 290; p. 428.
Batteries, Storage. L. Glosstein. No. 146,574; Sept. 13; v. 290; p. 421.
Beverage and syrup for making non-alcoholic, maltless. Central Consumers Company. No. 146,635; Sept. 13; v. 290; p. 426.
Beverage, Non-cereal, maltless. Orange Nectar Co. No. 146,657; Sept. 13; v. 290; p. 429.
Biscuit and crackers. National Biscuit Company. No. 146,655; Sept. 13; v. 290; p. 428.
Blankets. Chatham Manufacturing Company. No. 146,637; Sept. 13; v. 290; p. 426.
Bread. Ward Baking Company. No. 146,619; Sept. 13; v. 290; p. 423.
Bulbs, plants, seed. M. Veldhuyzen van Zanten & Zonen. No. 146,617; Sept. 13; v. 290; p. 423.
Burners, furnaces, forges, ovens, and torches. Anthony Company. No. 146,631; Sept. 13; v. 290; p. 425.
Candy. Cullen Man'f'g Co. No. 146,642; Sept. 13; v. 290; p. 426.
Candy. Curtiss Candy Co. No. 146,564; Sepa. 13; v. 290; p. 421.
Canned fruits, vegetables, and fish. Ranney-Davis Mercantile Company. No. 146,597; Sept. 13; v. 290; p. 422.
Carbonizing, annealing, tempering, and melting pots and boxes and metal crucibles. West Michigan Steel Foundry Co. No. 146,624; Sept. 13; v. 290; p. 423.
Cards, Playing-. United States Playing Card Company. No. 146,660; Sept. 13; v. 290; p. 429.
Clothing, Articles of. William Hollins & Company. No. 146,578; Sept. 13; v. 290; p. 421.
Clothing, Articles of. Liberty & Co. No. 146,583; Sept. 13; v. 290; p. 422.
Compressors and pumps and attachments therefor. Pennsylvania Pump & Compressor Co. No. 146,596; Sept. 13; v. 290; p. 422.
Cotton piece goods. Rice-Stix Dry Goods Company. No. 146,659; Sept. 13; v. 290; p. 429.
Cotton piece goods. A. M. Robinson Company. No. 146,601; Sept. 13; v. 290; p. 422.
Cotton, thread, and cotton yarn. Spool and sewing. American Thread Company. Nos. 146,628–30; Sept. 13; v. 290; p. 425.
Cream for the hair. Liquid. Edlis Barbers' Supply Co. No. 146,643; Sept. 13; v. 290; p. 427.
Cutlery, machines, and tools, Certain. Shapleigh Hardware Company. No. 146,607; Sept. 13; v. 290; p. 422.
Die punches, Steel letter-. Marburg Brothers. No. 146,593; Sept. 13; v. 290; p. 422.
Disinfectants, insecticides, and exterminators. R. J. Rugien. No. 146,602; Sept. 13; v. 290; p. 422.
Drink made from herbs, roots, &c., Non-alcoholic. J. R. Manley. No. 146,653; Sept. 13; v. 290; p. 428.
Dyestuffs. Geigy Company. No. 146,644; Sept. 13; v. 290; p. 427.
Educational device. A. L. Runyan. No. 146,603; Sept. 13; v. 290; p. 422.
Electric art lighting fixtures. Lincoln Manufacturing Company. No. 146,584; Sept. 13; v. 290; p. 422.
Electric motors and controllers therefor. Singer Manufacturing Company. No. 146,608; Sept. 13; v. 290; p. 422.
Electrical apparatus. Westinghouse Electric & Manufacturing Company. No. 146,662; Sept. 13; v. 290; p. 429.
Electrical conductors, Rubber-covered. Belden Manufacturing Company. No. 146,556; Sept. 13; v. 290; p. 421.
Engines, Crude-oil. Kahlenberg Bros. Co. No. 146,581; Sept. 13; v. 290; p. 422.
Extract and syrup for making soft drinks. Non-alcoholic, maltless. Lime Cola Co. No. 146,652; Sept. 13; v. 290; p. 428.
Fabric in the piece, Pyroxylin-coated. Athol Manufacturing Company. No. 146,633; Sept. 13; v. 290; p. 425.
Flooring, &c., Composition. Cheney & Co. No. 146,561; Sept. 13; v. 290; p. 421.
Fly-killers and flycatchers. A. E. Rochfort. No. 146,600; Sept. 13; v. 290; p. 422.
Furnaces, heaters, and boilers equipped with fuel-economizers. A. J. La Fay. No. 146,582; Sept. 13; v. 290; p. 422.
Gas water-heaters. Bastain-Morley Co. No. 146,634; Sept. 13; v. 290; p. 425.
Glasses. Reading-. Franklin Optical Company. No. 146,573; Sept. 13; v. 290; p. 421.
Gold for filling teeth, Fibrous. S. S. White Dental Manufacturing Company. No. 146,625; Sept. 13; v. 290; p. 423.
Governors, tractor-hitches, &c., for internal-combustion engines. Tractor Appliance Company. No. 146,612; Sept. 13; v. 290; p. 423.
Grates and incinerators. Washburn & Granger. No. 146,661; Sept. 13; v. 290; p. 429.
Gratings. W. L. Pattison. No. 146,595; Sept. 13; v. 290; p. 422.
Gum, Chewing-. Common Sense Gum Company. No. 146,638; Sept. 13; v. 290; p. 426.
Gun recoil-pads. B. F. Goodrich Company. No. 146,645; Sept. 13; v. 290; p. 427.
Hair-nets. Graf Bros. No. 146,646; Sept. 13; v. 290; p. 427.
Hair-tonic. H. R. Jaeger Barber Supply Co. No. 146,650; Sept. 13; v. 290; p. 428.
Harness. Waterloo Saddlery Company. No. 146,620; Sept. 13; v. 290; p. 423.
Heaters and furnaces, Warm-air. International Heater Company. No. 146,649; Sept. 13; v. 290; p. 427.
Inhalers. G. Welch. No. 146,621; Sept. 13; v. 290; p. 423
Laundry-receptacles. Chalmette Laundry Co. No. 146,560; Sept. 13; v. 290; p. 421.
Leather. Joseph N. Eisendrath Company. No. 146,567; Sept. 13; v. 290; p. 421.
Leather for vehicle-tops, Manufactured. Bridgeport Coach Lace Co. No. 146,559; Sept. 13; v. 290; p. 421.
Lumber. William M. Lloyd Company. No. 146,586; Sept. 13; v. 290; p. 422.
Machinery, Certain. Wellman-Seaver-Morgan Company. No. 146,623; Sept. 13; v. 290; p. 423.
Magnet-wires. Belden Manufacturing Company. No. 146,555; Sept. 13; v. 290; p. 421.
Magneto-generators, electric switches and contact devices. Electric Tachometer Corporation. No. 146,568; Sept. 13; v. 290; p. 421.
Manure and straw spreaders, feed-grinders, manure-loaders. Litchfield Manufacturing Company. No. 146,585; Sept. 13; v. 290; p. 422.
Medicine for lung troubles, tuberculosis, &c. W. Rath. No. 146,598; Sept. 13; v. 290; p. 422.
Metal coatings for dental work. J. H. Tuttle. No. 146,613; Sept. 13; v. 290; p. 423.
Mirrors, Mouth-. Union Broach Co. No. 146,614; Sept. 13; v. 290; p. 423.
Oils and greases, and axle-grease, Lubricating. Richardson Lubricating Company. No. 146,599; Sept. 13; v. 290; p. 422.
Oils and greases, Lubricating. L. V. Nicholas Oil Company. No. 146,591; Sept. 13; v. 290; p. 422.
Oils and greases, Lubricating. Seaboard and Inland Oil Corporation. No. 146,605; Sept. 13; v. 290; p. 422.
Paint. American Chemical Paint Company. No. 146,554; Sept. 13; v. 290; p. 421.
Paint for iron, steel, &c., Protective. Chipman Chemical Engineering Co. Nos. 146,562–3; Sept. 13; v. 290; p. 421.
Paints, enamels, wood-stains, varnishes. Devoe & Raynolds Co. No. 146,566; Sept. 13; v. 290; p. 421.
Pens, Fountain-. S. A. Harris. No. 146,576; Sept. 13; v. 290; p. 421.
Pictures, Motion-. E. Lysle. No. 146,588; Sept. 13; v. 290; p. 422.
Piston-rings. No-Leak-O Piston Ring Company. No. 146,656; Sept. 13; v. 290; p. 428.
Piston-rings. Welever Piston Ring Company. No. 146,622; Sept. 13; v. 290; p. 423.
Potatoes, Fresh. M. J. McIver. No. 146,589; Sept. 13; v. 290; p. 422.
Powder-puff. J. J. Cosin. No. 146,639; Sept. 13; v. 290; p. 426.
Powdered preparation. L. E. Crouse. Nos. 146,640–1; Sept. 13; v. 290; p. 426.
Razors. Manufacturing Dealers Company. No. 146,590; Sept. 13; v. 290; p. 422.
Reliners, tire-sleeves. Federal Rubber Company. Nos. 146,570–1; Sept. 13; v. 290; p. 421.
Retorts for distilling wood. Valdosta Retort Co. No. 146,616; Sept. 13; v. 290; p. 423.
Rheostats. Forest Electric Co. No. 146,572; Sept. 13; v. 290; p. 421.
Rubber hot-water bags or bottles. Seamless Rubber Company. No. 146,606; Sept. 13; v. 290; p. 422.
Rugs and carpets. M. J. Whittall Associates. No. 146,626; Sept. 13; v. 290; p. 423.
Seed, Clover-. Alabama Annual White Sweet Clover Seed Growers Association. No. 146,553; Sept. 13; v. 290; p. 421.
Seeds, Lawn-grass. J. O. Johnson. No. 146,651; Sept. 13; v. 290; p. 428.
Sharpeners, Pencil-. George B. Graff Company. No. 146,575; Sept. 13; v. 290; p. 421.

Shoe machinery, Certain. Victor Shoe Machinery Company. No. 146,618; Sept. 13; v. 290; p. 423.
Silk shirtings in the piece. M. Bornstein & Sons. Nos. 146,557–8; Sept. 13; v. 290; p. 421.
Silk Spool-. Gudebrod Bros. Silk Co. No. 146,647; Sept. 13; v. 290; p. 427.
Spring shock-absorbing devices. T. W. C. Hartmann. No. 146,577; Sept. 13; v. 290; p. 421.
Stabilisers, drag-links for vehicle steering-gear, and bumpers. Cincinnati Ball Crank Co. No. 146,636; Sept. 13; v. 290; p. 426.
Tank and carbureter, Combined. H. Dalton, Sr. No. 146,565; Sept. 13; v. 290; p. 421.
Thread and yarn. J. & P. Coats (R. I.) Inc. No. 146,580; Sept. 13; v. 290; p. 422.
Tires for automobiles, Rubber and fabric pneumatic. A. Faure. No. 146,569; Sept. 13; v. 290; p. 421.
Tires, Pneumatic rubber. Parker Tire & Rubber Company. No. 146,594; Sept. 13; v. 290; p. 422.
Tires, tubes, tire-repair materials and accessories. India Tire and Rubber Company. No. 146,648; Sept. 13; v. 290; p. 427.
Toasters, Electric. Rutenber Electric Co. No. 146,604; Sept. 13; v. 290; p. 422.
Toothpicks. International Mfg. Co. No. 146,579; Sept. 13; v. 290; p. 422.
Varnishes, fillers, stains, varnish coatings. Unkefer Varnish Company. No. 146,615; Sept. 13; v. 290; p. 423.
Water, Medicinal. Aquasone Laboratories. No. 146,632; Sept. 13; v. 290; p. 425.
Water, Natural mineral. State of New York. Nos. 146,609–11; Sept. 13; v. 290; p. 422.
Waterproofing compound for roofing and construction use. J. P. O'Connell. No. 146,592; Sept. 13; v. 290; p. 422.

ALPHABETICAL LIST OF LABELS.

"Baby Buster." (For Chick Feed.) Park & Pollard Co. No. 23,431; Sept. 13; v. 290; p. 431.
"Bright Star." (For Dry-Cell Batteries.) Bright Star Battery Co. No. 23,415; Sept. 13; v. 290; p. 431.
"Burson Fashioned Hose." (For Cartons for Hosiery.) Burson Knitting Company. No. 23,416; Sept. 13; v. 290; p. 431.
"Charm O Net." (For Hair-Nets.) L. Stein. No. 23,435; Sept. 13; v. 290; p. 431.
"Chocolate Cherries." (For Cartons Containing Chocolate Cherries.) P. Messing. No. 23,427; Sept. 13; v. 290; p. 431.
"Columbia Exclusive Artist." (For Sound Records of the Columbia Graphophone Company.) Columbia Graphophone Company. No. 23,417; Sept. 13; v. 290; p. 431.
"Ese Auto Polish." (For Liquid Auto-Polish.) Ese Products Company. No. 23,418; Sept. 13; v. 290; p. 431.
"Fluoline." (For Boxes, Bottles, Jars, and Packages Containing Emollient and Healing Medicaments as an Inhalent and a Rubefacient for Relief of Colds and Congestion in the Head, Throat, and Chest.) Fluno Co. No. 23,419; Sept. 13; v. 290; p. 431.
"Gainsborough." (For Envelops Containing Hair-Nets.) Western Bottle Manufacturing Company. No. 23,438; Sept. 13; v. 290; p. 431.
"Krank's In Vigorator." (For Bottles of Hair-Dresser.) A. J. Krank. No. 23,422; Sept. 13; v. 290; p. 431.
"Kreem Nut." (For Oleomargarin.) W. J. Haeberlein. No. 23,420; Sept. 13; v. 290; p. 431.
"Lapidar." For Goods Named Lapidar Which Consist of Medicinal Tablets Made of Herbs and Roots from the Swiss Alps.) B. Maurer. No. 23,425; Sept. 13; v. 290; p. 431.
"Mary Lincoln." (For Candies.) L. R. Steel Company. No. 23,434; Sept. 13; v. 290; p. 431.
"Nu-Lade Eggs." (For Eggs.) Pacific Co-Operative Poultry Producers. No. 23,430; Sept. 13; v. 290; p. 431.
"Nunbre." (For Prepared Moss.) Henry Wilhelm Company. No. 23,439; Sept. 13; v. 290; p. 431.
"Permanent Tip." (For Shoe-Laces.) L. & R. Company. No. 23,423; Sept. 13; v. 290; p. 431.
"Populaire" (For Cigars.) N. Weiss. No. 23,437; Sept. 13; v. 290; p. 431.
"Prunes From Los Gatos." (For Boxes of Prunes.) F. Wm. Kemling Co. No. 23,421; Sept. 13; v. 290; p. 431.
"Rastus 7—11." (For Candy.) E. J. Brach and Sons. No. 23,414; Sept. 13; v. 290; p. 431.
"Red Seal Rubber Baby Pants" (For Baby-Pants.) Morris, Mann & Reilly. No. 23,428; Sept. 13; v. 290; p. 431.
"Seeds' Dressing." (For a Dressing for Floors, Interior Decorations, Automobiles.) F. E. Seeds. No. 23,433; Sept. 13; v. 290; p. 431.
"Sun-Seal Sunnycorn." (For a Breakfast Cereal Made of Corn.) Patent Cereals Company. No. 23,432; Sept. 13; v. 290; p. 431.
"Sweet's Salt Lake Brilliant Gloss Filled Candies." (For a Tin Containing Filled Candies.) Sweet Candy Co. No. 23,436; Sept. 13; v. 290; p. 431.
"The Smokers Gum." (For Chewing-Gum.) Nicomors Products Company. No. 23,429; Sept. 13; v. 290; p. 431.
"Vitrifused Glass Coated Flues." (For Flue-Linings for Monarch Ranges.) Malleable Iron Range Company. No. 23,424; Sept. 13; v. 290; p. 431.
"Washington Brand Pure Creamery Butter." (For Cartons Containing Butter.) Menasha Printing and Carton Company. No. 23,426; Sept. 13; v. 290; p. 431.

ALPHABETICAL LIST OF PRINTS.

"A Beautiful Skin." (For Advertising Kirk's "Jap Rose" Soap.) James S. Kirk & Company. No. 5,759; Sept. 13; v. 290; p. 432.
"Betty Allen." (For Advertising Purposes for Ladies' Gowns.) E. R. Green. No. 5,755; Sept. 13; v. 290; p. 432.
"Dr. Peck's Py-Zo-Sis Tooth Brush." (For Advertising Purposes for Toothbrushes.) A. E. Peck Manufacturing Co. No. 5,766; Sept. 13; v. 290; p. 432.
"Duxbak Steamproof Nutan." (For Advertising Purposes for an Article of Manufacture—viz., Leather Belting.) Chas. A. Schieren Company. No. 5,767; Sept. 13; v. 290; p. 432.
"5¢ Will Still Buy Gold Dust—for Your Spring Cleaning." (For Advertising Gold Dust Washing-Powder.) N. K. Fairbank Company. No. 5,754; Sept. 13; v. 290; p. 432.
"Glorious Hair." (For Advertising Kirk's "Jap Rose" Soap.) James S. Kirk & Company. No. 5,757; Sept. 13; v. 290; p. 432.
"Grinnell Gloves, 'Best for Every Purpose.'" (For Advertising Purposes for Gloves.) Morrison-Ricker Mfg. Company. Nos. 5,760–3; Sept. 13; v. 290; p. 432.
"Haynes Character Cars." (For Advertising Purposes for Automobiles.) Haynes Automobile Company. No. 5,756; Sept. 13; v. 290; p. 432.
"Kash Karry Koffee." (For Containers or Bags for Advertising Coffee.) W. H. Deubener. No. 5,753; Sept. 13; v. 290; p. 432.
"Penn Double Bevel Blade." (For Advertising Purposes for Safety-Razor Blades.) A. C. Penn, Inc. No. 5,764; Sept. 13; v. 290; p. 432.
"Spark Plug." (For Advertising Purposes for Neckwear.) Bracken Furnishing Goods Company. No. 5,751; Sept. 13; v. 290; p. 432.
"Speed Wagon." (For Advertising Purposes for Motor-Trucks.) Reo Motor Car Co. No. 5,765; Sept. 13; v. 290; p. 432.
"Sterling Milk." (For Advertising Purposes for Milk.) F. E. Cryder. No. 5,752; Sept. 13; v. 290; p. 432.
"The Wonder Soap." (For Advertising Kirk's Original Cocoa Hardwater Castile Soap.) James S. Kirk & Company. No. 5,758; Sept. 13; v. 290; p. 432.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Ammonia, asthma, and catarrh powders, bay-rum, &c. S. P. Hite Company. No. 146,764; Sept. 13; v. 290; p 403.
Antispasmodic and sedative preparations. Southwestern Pharmacal Company. No. 148,898; Sept. 13; v. 290; p. 406.
Aphrodisiac. Clyde Collins Company. No. 148,431; Sept. 13; v. 290; p. 408.
Automobile and furniture cleaner and polish. Klens-Zol Co. No. 147,350; Sept. 13; v. 290; p. 404.
Automobiles, &c., Devices for locating cause of sounds produced by defects in the operating mechanism of. E. R. Benson Manufacturing Co. No. 150,504; Sept. 13; v. 290; p. 414.
Automobiles, &c., polish, floor-wax, and cleaning compound. Polisheen Manufacturing Company. No. 150,201; Sept. 13; v. 290; p. 413.
Automobile, furniture, &c., polish. L. B. Wade Co. No. 140,821; Sept. 13; v. 290; p. 398.
Bag, purses, and pocketbook frames. J. E. Margott Company. No. 146,125; Sept. 13; v. 290; p. 402.
Baking-powder. Dresden Baking Powder Company. No. 146,694; Sept. 13; v. 290; p. 403.
Bakery products. Remar Company. No. 122,999; Sept. 13; v. 290; p. 394.
Baskets. Wabash Basket Company. No. 144,758; Sept. 13; v. 290; p. 400.
Beds, Auto porch-. Schaefer Tent & Awning Co. No. 134,922; Sept. 13; v. 290; p. 395.
Belting and bindings, Dress and skirt. Owl Specialty Co. No. 147,733; Sept. 13; v. 290; p. 405.
Belting, Dress-. Russell Manufacturing Co. No. 151,291; Sept. 13; v. 290; p. 416.
Beverage and syrup for making same. California Grape-Products Co. No. 145,740; Sept. 13; v. 290; p. 401.
Beverage and syrup for making same. San Antonio Beverage Syrup Co. No. 151,292; Sept. 13; v. 290; p. 416.
Beverage and syrup for making same. Van Rouge Co. No. 148,465; Sept. 13; v. 290; p. 408.
Beverage and syrups for making same. P. G. Dory. No. 143,351; Sept. 13; v. 290; p. 399.
Beverage, Non-alcoholic. C. P. Johnson. No. 146,561; Sept. 13; v. 290; p. 402.
Beverage, Non-alcoholic. W. T. Wagner's Sons Co. No. 149,161; Sept. 13; v. 290; p. 411.
Beverages and syrups for making same. A. F. Kloss Co. No. 144,815; Sept. 13; v. 290; p. 400.
Beverages, Maltless, non-cereal. Los Angeles Ice & Cold Storage Company. No. 150,545; Sept. 13; v. 290; p. 414.
Beverages, Non-alcoholic. H. Bruckner. No. 148,198; Sept. 13; v. 290; p. 407.
Books, Series of text-. N. A. Dukes. No. 147,282; Sept. 13; v. 290; p. 404.
Bread. National Baking Company. No. 143,994; Sept. 13; v. 290; p. 400.
Butter, lard, and sausage. H. P. Matthews. No. 145,751; Sept 13; v. 290; p. 401.
Candies, Chocolate. J. Donnelly. No. 147,956; Sept. 13; v. 290; p. 406.
Candy. Schutter Johnson Candy Co. No. 147,374; Sept. 13; v. 290; p. 404.
Canned evaporated and condensed milks. American Milk Products Corporation. No. 127,882; Sept. 13; v. 290; p. 394.
Catalogue, Annual. Holophane Glass Company. No. 125,241; Sept. 13; v. 290; p. 395.
Chicle and essence of tobacco, Combination. Chew't Company. No. 133,402; Sept. 13; v. 290; p. 395.
Cleaning solution for kid gloves, &c. H. Evans. No. 149,739; Sept. 13; v. 290; p. 412.
Cleansing preparation for silverware, glass, &c. Nuro Silver Co. No. 148,564; Sept. 13; v. 290; p. 409.
Coating for wood and masonry. Tusuline Company. No. 147,536; Sept. 13; v. 290; p. 405.
Coffee. W. H. Bruning. No. 137,164; Sept. 13; v. 290; p. 396.
Combs, Hair-straightening. O. R. Altwein. No. 145,867; Sept. 13; v. 290; p. 402.
Cotton-batting. Stearns & Foster Company. Nos. 151,384–6; Sept. 13; v. 290; p. 417.
Cotton-batting. Stearns & Foster Company. Nos. 151,389–90; Sept. 13; v. 290; p. 417.
Cotton-batting. Sterns & Foster Company. Nos. 151,391–406; Sept. 13; v. 290; pp. 417–19
Cotton-batting. Stearns & Foster Company. No. 151,412; Sept. 13; v. 290; p. 419.
Cotton-batting. Sterns & Foster Company. Nos. 151,416–17; Sept. 13; v. 290; p. 419.
Cotton-batting. Stearns & Foster Company. Nos. 151,419–22; Sept. 13; v. 290; pp. 419–20.
Cotton-batting, particularly glazed cotton wadding. Stearns & Foster Company. Nos. 151,426–7; Sept. 13; v. 290; p. 420.
Cotton-batting, particularly glazed cotton wadding. Stearns & Foster Company. No. 151,431; Sept. 13; v. 290; p. 420.
Cotton-batting, particularly glazed cotton wadding. Stearns & Foster Company. No. 151,433; Sept. 13; v. 290; p. 420.
Cotton goods in the piece. American Bleached Goods Company. No. 137,692; Sept. 13; v. 290; p. 396.
Cotton piece goods. Henry Glass & Co. No. 150,859; Sept. 13; v. 290; p. 416.
Cotton piece goods. Victor Monaghan Company. No. 150,644; Sept. 13; v. 290; p. 415.
Cotton piece goods, Woven. Neuss, Hesslein & Co. No. 143,829; Sept. 13; v. 290; p. 400.
Dates, Fresh. Van Dyk and Reeves. No. 143,071; Sept. 13; v. 290; p. 399.
Denims in the piece. Erwin Cotton Mills Co. No. 137,454; Sept. 13; v. 290; p. 396.
Duck, Cotton. John Dunn Son & Co. No. 140,876; Sept. 13; v. 290; p. 398.
Duck in the piece, Cotton. W. E. Stetson. No. 149,296; Sept. 13; v. 290; p. 411.
Ducks and drills, awning-stripes, &c., Cotton. John Boyle & Company. No. 148,793; Sept. 13; v. 290; p. 409.
Dyeing, coloring, and tinting compositions. R. P. Dicks. No. 148,019; Sept. 13; v. 290; p. 406.
Elastic braids. Narrow Fabric Co. No. 149,144; Sept. 13; v. 290; p. 411.
Elastic webbing. Hope Webbing Company. No. 150,681; Sept. 13; v. 290; p. 415.
Elastic webbing. Julius Wile Sons & Co. No. 149,257; Sept. 13; v. 290; p. 411.
Electrical testing devices. Testall Electric Manufacturing Co. No. 143,899; Sept. 13; v. 290; p. 400.
Engines, Reserve-providers for gasolene, &c., tanks of internal-combustion. Automobile Appliance Company. No. 145,148; Sept. 13; v. 290; p. 401.
Feeders and fountains, Poultry and stock. Cyclone Manufacturing Co. No. 144,220; Sept. 13; v. 290; p. 400.
Fertilizers. Monmouth County Farmers' Exchange. No. 150,323; Sept. 13; v. 290; p. 413.
Fertilizers, Artificial. A. H. Carter, Limited. No. 145,550; Sept. 30; v. 290; p. 401.
Filing-receptacles. Ross-Gould Company. No. 139,053; Sept. 13; v. 290; p. 397.
Flour, Wheat-. Russell-Miller Milling Co. No. 141,130; Sept. 13; v. 290; p. 398.
Food for hogs or swine. Blatchford Calf Meal Company. No. 137,063; Sept. 13; v. 290; p. 396.
Fruits, Fresh citrus. Mutual Orange Distributors. No. 146,570; Sept. 13; v. 290; p. 402.
Fur buttons. Marvin Lichtenstein & Bro. No. 146,638; Sept. 13; v. 290; p. 402.
Galvanometers and photographic recording and projecting apparatus employed in connection therewith, String-. C. F. Hindle. No. 132,358; Sept. 13; v. 290; p. 395.
Garment-hangers. Brager Bros. No. 144,799; Sept. 13; v. 290; p. 400.
Gloves and mitts, &c., Baseball. Ken-Wel Sporting Goods Co. No. 147,027; Sept. 13; v. 290; p. 403.
Glue and paste. Central Adhesive Company. No. 149,170; Sept. 13; v. 290; p. 411.
Glue, Cement. I. Marcy. No. 145,113; Sept. 13; v. 290; p. 401.
Golf-club shafts. Cross Rod & Tackle Co. No. 147,502; Sept. 13; v. 290; p. 404.
Grape-juice, ginger-ale, &c. H. Kellogg & Sons. No. 149,757; Sept. 13; v. 290; p. 412.
Graphite, mica, and soapstone, Flake-. R. M. Hollingshead Co. No. 149,133; Sept. 13; v. 290; p. 410.
Hair-nets. Keystone Hair Net Imp. Corp. No. 150,753; Sept. 13; v. 290; p. 415.
Hair-nets. Keystone Hair Net Imp. Corp. No. 150,816; Sept. 13; v. 290; p. 416.
Hair-nets. A. Klar. Nos. 150,685–7; Sept. 13; v. 290; p. 415.
Hair-nets. A. Klar. Nos. 150,751–2; Sept. 13; v. 290; p. 415.
Hair-nets. Melba Manufacturing Company. No. 150,697; Sept. 13; v. 290; p. 415
Hair-nets. Paristyle Novelty Co. No. 150,631; Sept. 13; v. 290; p. 414.
Hair-restorer. S. Bieganowski. No. 148,969; Sept. 13; v. 290; p. 410.
Hair-tonic. Suregrow Hair Tonic Company. No. 148,242; Sept. 13; v. 290; p. 407.
Handkerchiefs. M. W. Heiss. No. 149,963; Sept. 13; v. 290; p. 413.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Hoof-pads. Federal Rubber Company. No. 146,880; Sept. 13; v. 290; p. 403.
Hoof-pads. Federal Rubber Company. No. 146,887; Sept. 13; v. 290; p. 403.
Hoof-pads. Federal Rubber Company. No. 146,894; Sept. 13; v. 290; p. 403.
Hydrogen ions, Instruments for the measurement of. Will Corporation. No. 149,943; Sept. 13; v. 290; p. 412.
Laundry and clothes-washing preparation. Hewitt Bros. Soap Company. No. 138,226; Sept. 13; v. 290; p. 397.
Lawn-surfaces, Machines for cleaning. John Braun & Sons. No. 97,175; Sept. 13; v. 290; p. 393.
Linings for men's wear. Simonson, Rogers & Jaeger. No. 149,781; Sept. 13; v. 290; p. 412.
Lubricators, Force-feed. Roberts & Monroe. No. 138,236; Sept. 13; v. 290; p. 397.
Macaroni. Lopes & Co. No. 144,923; Sept. 13; v. 290; p. 401.
Malt extract with paraffin, Crystalline. Wander Company. No. 148,470; Sept. 13; v. 290; p. 408.
Mattress. Sleep-Well Mattress Co. No. 148,903; Sept. 13; v. 290; p. 410.
Medicinal preparation. Calco Chemical Company. No. 148,316; Sept. 13; v. 290; p. 407.
Medicinal preparation for removing corns, callouses, and warts. J. M. Jacobs. No. 129,933; Sept. 13; v. 290; p. 394.
Medicine for rheumatism and arthritism. A. Sabatella. No. 137,187; Sept. 13; v. 290; p. 396.
Metal receptacles and containers, Sheet-. Wheeling Corrugating Company. No. 143,023; Sept. 13; v. 290; p. 399.
Milk, Unsweetened evaporated. Waddington Condensed Milk Co. No. 147, 145; Sept. 13; v. 290; p. 404.
Mirrors and picture-frames, Hand-. Newark Tortoise Shell Novelty Co. No. 135,526; Sept. 13; v. 290; p. 395.
Mowers, Lawn-. John Braun & Sons. No. 97,177; Sept. 13; v. 290; p. 393.
Mowers, Lawn-. John Braun & Sons. No. 97,180; Sept. 13; v. 290; p. 393.
Mowers, Lawn-. John Braun & Sons. No. 97,185; Sept. 13; v. 290; p. 393.
Mowers, Lawn-. John Braun & Sons. No. 97,187; Sept. 13; v. 290; p. 393.
Mowers, Lawn-. John Braun & Sons. Nos. 97,189–90; Sept. 13; v. 290; p. 394.
Notions and general merchandise. Burnstine and Nechman. No. 137,819; Sept. 13; v. 290; p. 397.
Oils and greases, Lubricating. Armor Oil & Chemical Co. No. 147,758; Sept. 13; v. 290; p. 405.
Oil and ointment for treatment of rheumatism, &c., Anointing. A. W. Lowrie. No. 148,028; Sept. 13; v. 290; p. 406.
Oil-gages. Acme Belting Company. No. 148,190; Sept. 13; v. 290; p. 407.
Oil, Motor-. Rusk Oil Co. No. 140,546; Sept. 13; v. 290; p. 397.
Oils, Emulsifier of essential. Dr. Charles D. Camp Company. No. 148,127; Sept. 13; v. 290; p. 406.
Oils, shortenings, butterin, &c. Electrox Company. Nos. 141,252–4; Sept. 13; v. 290; p. 398.
Ointment or salve for sores, burns, itch. C. C. Ralstin. No. 147,048; Sept. 13; v. 290; p. 403.
Packing-house products. Brennan Packing Co. No. 141,624; Sept. 13; v. 290; p. 399.
Packing-house products. John Lewis & Company. No. 125,571; Sept. 13; v. 290; p. 394.
Paint, Liquid. Goheen Corporation. No. 148,996; Sept. 13; v. 290; p. 410.
Paints. Armor Oil & Chemical Co. No. 147,757; Sept. 13; v. 290; p. 405.
Paints. Mutual Paint Company. No. 140,047; Sept. 13; v. 290; p. 397.
Paints and paint enamels. Detroit Graphite Company. No. 141,251; Sept. 13; v. 290; p. 398.
Picture film, Moving-. Omnia Import Corporation. No. 150,974; Sept. 13; v. 290; p. 416.
Picture-films. S. Cohen. No. 149,125; Sept. 13; v. 290; p. 410.
Picture-films. Mastodon Films, Inc. No. 150,759; Sept. 13; v. 290; p. 415.
Picture films, Motion-. Fables Pictures, Inc. Nos. 148,727–8; Sept. 13; v. 290; p. 409.
Picture films, Motion and stereopticon. Mastodon Films Inc. No. 148,544; Sept. 13; v. 290; p. 408.
Pictures, Motion-. Christie Film Company. No. 147,860; Sept. 13; v. 290; p. 405.
Pictures, Motion-. Educational Films Corporation of America. No. 147,870; Sept. 13; v. 290; p. 406.
Piston-rings. Spyroseal Manufacturing Company. No. 149,297; Sept. 13; v. 290; p. 411.
Powder, Complexion-. C. R. Boyd. No. 148,965; Sept. 13; v. 290; p. 410.
Preparation for relief of headache, &c. W. A. Kimbell. No. 148,078; Sept. 13; v. 290; p. 406.
Preparation for stomach, bowels, and liver disturbances. Adlerika Company. No. 148,193; Sept. 13; v. 290; p. 407.
Preparation for treatment of dandruff and the scalp. R. T. Weese. No. 148,468; Sept. 13; v. 290; p. 408.
Publication, Monthly. United Electric Company. No. 146,853; Sept. 13; v. 290; p. 403.
Publication-title. Hendler Creamery Company. No. 139,273; Sept. 13; v. 290; p. 397.
Publications, Monthly. B. Wilk. No. 149,729; Sept. 13; v. 290; p. 412.
Purses and pocketbooks. Cartier, Inc. No. 144,963; Sept. 13; v. 290; p. 401.
Rope, Transmission-. Portland Cordage Co. No. 150,467; Sept. 13; v. 290; p. 418.
Ropes, Lariat-. Portland Cordage Co. No. 150,465; Sept. 13; v. 290; p. 418.
Root-beer. Independent Breweries Company. No. 151,274; Sept. 13; v. 290; p. 416.
Root-beer. Dr. Swett Root Beer Inc. No. 148,514; Sept. 13; v. 290; p. 408.
Ruffings and plaitings. G. Sidenberg & Co. No. 149,865; Sept. 13; v. 290; p. 412.
Rugs and carpets, Rag. W. M. Hoffmanns. No. 148,737; Sept. 13; v. 290; p. 409.
Safety-pins. Penn Rivet Corporation. No. 151,286; Sept. 13; v. 290; p. 416.
Safety-pins. Penn Rivet Corporation. No. 151,376; Sept. 13; v. 290; p. 417.
Scenery and window backgrounds, Theatrical. Service Studios. No. 149,035; Sept. 13; v. 290; p. 410.
Shade-cloth. Interstate Shade Cloth Co. No. 147,200; Sept. 13; v. 290; p. 404.
Shade-roller. Interstate Shade Cloth Co. No. 147,199; Sept. 13; v. 290; p. 404.
Signs. Aultman Inc. No. 148,049; Sept. 13; v. 290; p. 406.
Silks in the piece. Jansen & Pretzfeld. No. 150,864; Sept. 13; v. 290; p. 416.
Silks in the piece. Jansen & Pretzfeld. No. 150,867; Sept. 13; v. 290; p. 416.
Snap-fasteners. De Long Hook and Eye Company. Nos. 147,601–2; Sept. 13; v. 290; p. 405.
Snap-fasteners. Penn Rivet Corporation. No. 151,285; Sept. 13; v. 290; p. 416.
Snap-fasteners. Penn Rivet Corporation. No. 151,375; Sept. 13; v. 290; p. 417.
Soap. Charles McAdam Company. No. 141,686; Sept. 13; v. 290; p. 399.
Soap and soap products. Rub-No-More Company. No. 137,631; Sept. 13; v. 290; p. 396.
Soap cleanser, Soft-. J. Wilson. No. 148,521; Sept. 13; v. 290; p. 408.
Soap, Hand-. H. G. Dahl. No. 141,363; Sept. 13; v. 290; p. 399.
Soap, Medicinal powder. R. Flores. No. 149,581; Sept. 13; v. 290; p. 412.
Stain, paint, varnish, Shingle-. British America Paint Company. No. 147,912; Sept. 13; v. 290; p. 406.
Syrup, Orange. Richardson Corporation. No. 145,363; Sept. 13; v. 290; p. 401.
Syrups, Table-. Curd and Blakemore Co. No. 144,448; Sept. 13; v. 290; p. 400.
Tags. Tagit Company. No. 118,407; Sept. 13; v. 290; p. 394.
Tents, awnings, &c. Clifton Mfg. Company. Nos. 148,200–1; Sept. 13; v. 290; p. 407.
Tents, awnings, &c. Clifton Mfg. Company. Nos. 148,203–4; Sept. 13; v. 290; p. 407.
Tents, awnings, &c. Clifton Mfg. Company. No. 148,211; Sept. 13; v. 290; p. 407.
Textiles in the piece, Cotton. Turner, Halsey Company. No. 149,301; Sept. 13; v. 290; p. 411.
Thermometers, Indicating-. Newberry & Nichols. No. 150,629; Sept. 13; v. 290; p. 414.
Ticket holders, Car, &c. Take-A-Tik Co. No. 147,645; Sept. 13; v. 290; p. 405.
Toilet preparations. Nyal Company. No. 130,547; Sept. 13; v. 290; p. 395.
Tooth-pastes, toilet powder, and tooth-wash. Laboratorium "Leo," Dr. Phil, Ottomar Heinsius v. Mayenburg. No. 147,033; Sept. 13; v. 290; p. 403.
Tonic and tissue-building preparation. Biochemical Food Products Corporation. No. 142,324; Sept. 13; v. 290; p. 399.
Tonic for diabetics. Vino Medical Co. No. 149,045; Sept. 13; v. 290; p. 410.
Toy automobiles. U. Kawasaki. No. 144,459; Sept. 13; v. 290; p. 400.
Toy carpet-sweepers. Bissell Carpet Sweeper Co. No. 147,334; Sept. 13; v. 290; p. 404.
Trunks. L. Goldsmith & Son. No. 146,209; Sept. 13; v. 290; p. 402.
Trunks. Osterweil Bros. No. 150,285; Sept. 13; v. 290; p. 413.
Trunks. J. Peterson. No. 150,023; Sept. 13; v. 290; p. 413.
Typewriter-platens, Preparation for the reproduction and preservation of. F. S. Wilson. No. 148,568; Sept. 13; v. 290; p. 409.
Vehicles, Tools for handling disabled. Kimmerle Bros. No. 137,942; Sept. 13; v. 290; p. 397.
Veils and veiling piece goods. Dorros Bros. No. 147,097; Sept. 13; v. 290; p. 404.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Water-bag Journal-coolers. I. L. Burlingame. No. 140,897; Sept. 13; v. 290; p. 398.
Water, Concentrated natural mineral. Crazy Well Water Company of Mineral Wells. No. 148,059; Sept. 13; v. 290; p. 406.
Water, Natural mineral. State of New York. No. 151,066; Sept. 13; v. 290; p. 416.
Whips. Diamond Whip Company. No. 139,853; Sept. 13; v. 290; p. 397.
Wire rope. Williamsport Wire Rope Co. Nos. 137,054–5; Sept. 13; v. 290; pp. 395–6.
Woolen piece goods. Forstmann & Huffmann Company. Nos. 150,597–600; Sept. 13; v. 290; p. 414.
Woolen piece goods. Forstmann & Huffmann Company. No. 150,602; Sept. 13; v. 290; p. 414.
Woolen piece goods. Grant S. Kelley, Inc. No. 150,453; Sept. 13; v. 290; p. 413.
Woolen, worsted, &c., piece goods. E. H. King. No. 149,913; Sept. 13; v. 290; p. 412.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 13, 1921.

NOTE.—First number=class, second number=subclass, third number=patent number.

1— 44: 1,390,498
2— 106: 1,390,628
114: 1,390,818
3— 7: R. 15,192
12: 1,390,802
4— 27: 1,390,444
5— 13: 1,390,470
22: 1,390,608
32: 1,390,807
49: 1,390,307
58: 1,390,630
8— 19: 1,390,512
20: 1,390,292
1,390,413
9— 11: 1,390,935
20: 1,390,474
10— 154: 1,390,631
155: 1,390,351
12— 14: 1,390,735
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13— 15: 1,390,638
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15— 19: 1,390,881
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27: 1,390,973
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16— 11: 1,390,915
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17— 14: 1,390,551
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14: 1,390,375
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13: 1,390,774
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13: 1,390,329
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28: 1,390,683
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1,390,686
24— 19: 1,390,701
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1,390,702
13: 1,390,730
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32— 9: 1,390,353
33— 13: 1,390,534
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1,390,653
75: 1,390,540
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34— 17: 1,390,665
35— 16: 1,390,550
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131: 1,390,291
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132: 1,390,561
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10: 1,390,671
53— 1: 1,390,772
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8: 1,390,766
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108: 1,390,261
1,390,663
56— 67: 1,390,813
301: 1,390,753
339: 1,390,760
443: 1,390,894
58— 8: 1,390,848
60— 27: 1,390,562
61— 36: 1,390,457
62— 34: 1,390,934
37: 1,390,812
159: 1,390,953
63— 5: 1,390,360
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23: 1,390,300
64— 12: 1,390,464
17: 1,390,312
21: 1,390,482
24: 1,390,443
48: 1,390,582
49: 1,390,417
1,390,717
91: 1,390,668
92: 1,390,494
64— 96: 1,390,514
66— 4: R. 15,196
1,390,325
1,390,827
67— 35: 1,390,873
68— 10: 1,390,605
18: 1,390,678
31: 1,390,636
70— 31: 1,390,841
47: 1,390,403
90: 1,390,402
1,390,674
1,390,913
129: 1,390,322
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1,390,953
72— 88: 1,390,269
110: 1,390,364
73— 51: 1,390,497
52: 1,390,666
82: 1,390,415
98: 1,390,664
109: 1,390,273
74— 7: 1,390,420
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41: 1,390,414
54: 1,390,536
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59: 1,390,262
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98: R. 15,190
106: 1,390,920
109: 1,390,577
75— 1: 1,390,951
18: 1,390,603
77— 60: 1,390,731
80— 44: 1,390,853
62: 1,390,746
81— 72: 1,390,371
1,390,917
89: 1,390,460
113: 1,390,738
121: 1,390,463
125: 1,390,408
83— 9: 1,390,839
26: 1,390,346
39: 1,390,334
45: 1,390,431
54: 1,390,840
60: 1,390,455
64: 1,390,831
84— 33: 1,390,697
69: 1,390,430
136: 1,390,421
85— 1: 1,390,485
1.5: 1,390,279
10: 1,390,918
21: 1,390,275
86— 20: 1,390,849
87— 12: 1,390,687
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88— 14: 1,390,422
17: 1,390,793
19.5: 1,390,861
28: 1,390,640
89— 42: 1,390,447
1,390,658
90— 21: 1,390,706
91— 4: 1,390,494
43: 1,390,367
44: 1,390,990
67.4: 1,390,547
92— 69: 1,390,276
93— 55: 1,390,644
58: 1,390,795
94— 45: 1,390,479
97— 18: 1,390,615
67: 1,390,578
97— 81: 1,390,419
92: 1,390,437
98— 30: 1,390,889
31: 1,390,878
49: 1,390,347
99— 1: 1,390,709
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318: 1,390,660
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102— 3: 1,390,768
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85: 1,390,829
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94: 1,390,513
104— 52: 1,390,950
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105— 141: 1,390,396
195: 1,390,392
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213: 1,390,449
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221: 1,390,434
301: 1,390,357
312: 1,390,333
368: 1,390,439
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410: R. 15,193
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114— 84: 1,390,912
115— 40: 1,390,397
116— 11: 1,390,704
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124: 1,390,759
131: 1,390,801
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118— 58: 1,390,788
119— 50: 1,390,860
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54: 1,390,412
157: 1,390,611
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46: 1,390,366
94: 1,390,517
114: 1,390,290
121— 5: 1,390,834
7: 1,390,787
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158: 1,390,625
122— 4: 1,390,791
219: 1,390,838
478: 1,390,771
123— 44: 1,390,741
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116: 1,390,518
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127— 3: 1,390,677
9: 1,390,676
128— 74: 1,390,801
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305: 1,390,720
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130— 18: 1,390,806
23: 1,390,438
30: 1,390,781
131— 12: 1,390,657
132— 41: 1,390,803
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53: 1,390,778
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133— 4: 1,390,587
134— 8: 1,390,537
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18: 1,390,297
24: 1,390,691
46: 1,390,496
65: 1,390,480
135— 33: 1,390,382
137— 93: 1,390,851
104: 1,390,892
139— 85: 1,390,943
140— 7: 1,390,814
10: 1,390,293
141— 9: 1,390,345
143— 37: 1,390,958
132: 1,390,487
246: 1,390,800
247: 1,390,177
145— 5: 1,390,565
146— 5: 1,390,804
7: 1,390,739
11: 1,390,289
14: 1,390,268
29: 1,390,548
146— 5: 1,390,735
150— 1: 1,390,718
151— 3: 1,390,944
4: 1,390,775
152— 2: 1,390,893
5: 1,390,467
8: 1,390,909
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12: 1,390,707
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17: 1,390,900
21: 1,390,576
33: R. 15,191
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51: 1,390,955
122: 1,390,506
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155— 148: 1,390,842
196: 1,390,525
156— 44: 1,390,527
157— 1: 1,390,826
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158— 4: 1,390,798
27.4: 1,390,423
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36: 1,390,752
46.5: 1,390,446
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161— 2: 1,390,907
162— 8: 1,390,401
164— 61: 1,390,612
166— 16: 1,390,793
167— 4: 1,390,796
169— 26: 1,390,945
170— 146: 1,390,523
171— 119: 1,390,543
241: 1,390,843
172— 179: 1,390,526
245: 1,390,318
274: 1,390,624
278: 1,390,319
1,390,320
173— 262: 1,390,468
269: 1,390,481
324: 1,390,506
332: 1,390,607
174— 89: 1,390,429
175— 30: 1,390,779
183— 1,390,743
318: 1,390,505
1,390,575
363: 1,390,727
364: 1,390,504
176— 51: 1,390,456
177— 351: 1,390,394
178— 63: 1,390,580
179— 18: 1,390,720
27: 1,390,409
53: 1,390,545
90: 1,390,679
185: 1,390,806
180— 12: 1,390,287
17: 1,390,880
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54: 1,390,757
56: 1,390,672
69: 1,390,295
77: 1,390,854
181— 27: 1,390,655
183— 44: 1,390,284
73: 1,390,966
184— 1: 1,390,588
13: 1,390,393
185— 26: 1,390,782
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31: 1,390,721
188— 130: 1,390,385
204: 1,390,373
205: 1,390,954
214: 1,390,968
243: 1,390,846
190— 12: 1,390,728
191— 43: 1,390,369
60.2: 1,390,885
192— 68: 1,390,330
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113: 1,390,406
116: 1,390,682
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195— 1: 1,390,710
196— 5: 1,390,742
25: 1,390,386
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197— 30: 1,390,708
132: 1,390,955
198— 24: 1,390,845
200— 6: 1,390,492
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39: 1,390,336
80: 1,390,619
84: 1,390,532

204— 6. 5: 1,390,823
29: 1,390,355
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32: 1,390,646
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205— 20: 1,390,714
206— 23: 1,390,553
38: 1,390,866
208— 27: 1,390,942
93: 1,390,822
114: 1,390,441
165: 1,390,294
210— 159: 1,390,815
193: 1,390,531
211— 8: 1,390,673
14: 1,390,566
18: 1,390,299
1,390,632
28: 1,390,855
40: 1,390,406
213— 42: 1,390,675
59: 1,390,298
67: 1,390,874
214— 49: 1,390,368
65: 1,390,695
84: 1,390,321
130: 1,390,442
215— 38: 1,390,749
64: 1,390,833
76: 1,390,549
92: 1,390,832

217— 60: 1,390,579
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219— 35: 1,390,780
38: 1,390,819
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48: 1,390,515
62: 1,390,317
63: 1,390,407
220— 4: 1,390,784
85: 1,390,511
221— 96: 1,390,271
100: 1,390,476
102: 1,390,508
137: 1,390,383
222— 3: 1,390,884
223— 37: 1,390,924
38: 1,390,864
224— 29: 1,390,339
1,390,387
1,390,528
226— 14: 1,390,583
230— 1: 1,390,762
14: 1,390,390
27: 1,390,559
30: 1,390,585
1,390,586
233— 20: 1,390,898
235— 32: 1,390,584
60: 1,390,278
98: 1,390,270
144: 1,390,323
236— 13: 1,390,758
58: 1,390,503

238— 30: 1,390,928
51: 1,390,756
203: 1,390,489
208: 1,390,919
216: 1,390,914
240— 7: 1,390,350
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41: 1,390,445
1,390,747
45: 1,390,359
61: 1,390,937
241— 1: 1,390,769
242— 110: 1,390,296
244— 3: 1,390,745
5: 1,390,901
12: 1,390,563
21: 1,390,598
31: 1,390,925
246— 61: 1,390,957
437: 1,390,850
247— 20: 1,390,921
248— 31: 1,390,539
42: 1,390,389
65: 1,390,266
250— 2: 1,390,288
8: 1,390,883
6: 1,390,950
34: 1,390,897
110: 1,390,314
119: 1,390,941
134: 1,390,661
253— 69: 1,390,733
200: 1,390,391

254— 30: 1,390,643
78: 1,390,613
86: 1,390,433
103: 1,390,642
1,390,867
163: 1,390,770
255— 26: 1,390,750
71: R.15,194
75: 1,390,876
257— 1: 1,390,783
24: 1,390,516
66: 1,390,308
75: 1,390,965
125: 1,390,274
126: 1,390,899
129: 1,390,794
130: 1,390,616
259— 84: 1,390,343
113: 1,390,520
261— 41: 1,390,477
1,390,790
1,390,681
113: 1,390,280
262— 2: R.15,195
263— 12: 1,390,581
23: 1,390,600
32: 1,390,335
41: 1,390,694
265— 45: 1,390,858
267— 20: 1,390,560
41: 1,390,363
47: 1,390,649
56: 1,390,365

267— 60: 1,390,326
268— 1: 1,390,725
274— 1: 1,390,409
9: 1,390,546
10: 1,390,404
29: 1,390,553
35: 1,390,952
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37: 1,390,910
275— 2: 1,390,940
277— 67: 1,390,669
278— 86: 1,390,792
279— 100: 1,390,931
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280— 33. 4: 1,390,428
33. 5: 1,390,451
96. 3: 1,390,903
102: 1,390,567
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153: 1,390,634
281— 12: 1,390,705
282— 3: 1,390,263
283— 9: 1,390,959
36: 1,390,623
47: 1,390,933
56: 1,390,535
284— 19: 1,390,283
285— 3: 1,390,645
82: 1,390,564
290— 31: 1,390,452
292— 198: 1,390,773
210: 1,390,436

292— 254: 1,390,786
284: 1,390,306
340: 1,390,519
298— 55: 1,390,285
1,390,633
294— 49: 1,390,870
82: 1,390,650
296— 44: 1,390,483
47: 1,390,418
64: 1,390,356
94: 1,390,652
97: 1,390,384
107: 1,390,554
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1,390,556
1,390,557
299— 69: 1,390,310
301— 11: 1,390,610
37: 1,390,425
1,390,970
41: 1,390,875
48: 1,390,871
302— 53: 1,390,974
303— 6: 1,390,594
1,390,595
1,390,602
1,390,606
14: 1,390,592
19: 1,390,604
23: 1,390,593
84: 1,390,597
305— 9: 1,390,473
10: 1,390,324

ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 20TH DAY OF SEPTEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Abramson, Samuel A., Newark, N. J. Window-frame. No. 1,391,602; Sept. 20; v. 290; p. 566.

Adams, Edward S. and W. H., Columbus, Ohio. Storage battery. No. 1,391,089; Sept. 20; v. 290; p. 416.

Adams, Walter H. (See Adams, Edward S. and W. H.)

Aichele, Albert, assignor to A. G. Brown Boverie & Cie., Baden, Switzerland. Magneto-ignition apparatus. No. 1,391,234; Sept. 20; v. 290; p. 492.

Allen, S. L., and Co. (See Mader, Joseph, assignor.)

Amberton, Richard, London, England. Electric controller. No. 1,391,522; Sept. 20; v. 290; p. 550.

American Automatic Train Control Corporation. (See Quarles, Charles H., assignor.)

American Automatic Train Control Corporation. (See Stephens, Charles Z., assignor.)

American Hominy Company. (See Atkinson, Frederick C., assignor.)

American Slicing Machine Company, The. (See Hood, E. K., and Wolff, assignors.)

American Steam Truck Company. (See Jacobsen, Ern C., assignor.)

American Telephone & Telegraph Company. (See Loynes, O. H., and Rose, assignors.)

American Telephone and Telegraph Company. (See Parker, Ralzemond D., assignor.)

Andersen, Albert, assignor to Automatic Electric Company, Chicago, Ill. Call-sending device. No. 1,391,442; Sept. 20; v. 290; p. 534.

Anderson, Albert J., Ashtabula, Ohio. Heat-deflector and draft-creating device. No. 1,391,291; Sept. 20; v. 290; p. 503.

Anderson, Hugh C., Detroit, Mich. Automobile-signal. No. 1,391,528; Sept. 20; v. 290; p. 551.

Anderson, William M., assignor to Ideal Products Company, Minneapolis, Minn. Price-card holder. No. 1,391,090; Sept. 20; v. 290; p. 462.

Andrews, William G. (See Mayer, G. K., Andrews, and Coldby.)

Anthony Company, The. (See Morse, Albert W., assignor.)

Appleby, Edmund G. (See Bentley, G. H., and Appleby.)

Appleton Wire Works. (See Weissenborn, Albert B., assignor.)

Arbuckle, Emery H., Cleveland, Ohio. Adjustable sink. No. 1,391,091; Sept. 20; v. 290; p. 416.

Arnesen, Charlotte, assignor of one-fifth to C. L. Oberg and I. A. Oberg, Portland, Oreg. Aeroplane. No. 1,391,443; Sept. 20; v. 290; p. 534.

Ashton, William J., Dallas, Tex. Motometer-anchor. No. 1,390,975; Sept. 20; v. 290; p. 439.

Atkinson, Frederick C., assignor to American Hominy Company, Indianapolis, Ind. Food product and making the same. No. 1,391,160; Sept. 20; v. 290; p. 477.

Atkinson, Frederick C., assignor to American Hominy Company, Indianapolis, Ind. Food product and preparing. No. 1,391,161; Sept. 20; v. 290; p. 477.

Atkocaitis, Juozapas, Chicago, Ill. Necktie-pressing board. No. 1,391,444; Sept. 20; v. 290; p. 534.

Atwater Kent Manufacturing Company. (See Kent, Arthur A., assignor.)

Automatic Electric Company. (See Andersen, Albert, assignor.)

Automatic Metal Products Company, The. (See Bradley, William H., assignor.)

Avery Company. (See Solomon, Edgar J., assignor.)

Axt, Joseph A., Amboy, Minn. Grain-board holder. No. 1,391,292; Sept. 20; v. 290; p. 503.

B. Z. B. Knitting Co. (See Burson, Wilson W., assignor.)

Bacon Bros. Company, The. (See Gillian, Herman A., assignor.)

Bacot, Byron L., McComb, Miss. Roofing-tile. No. 1,391,603; Sept. 20; v. 290; p. 566.

Baer, Richard, New York, N. Y. Permutation-lock. No. 1,391,357; Sept. 20; v. 290; p. 516.

Baer, Richard, New York, N. Y. Permutation-lock. No. 1,391,359; Sept. 20; v. 290; p. 517.

Baer, Richard, and H. Kopp, New York, N. Y. Locking device for motor-vehicles. No. 1,391,358; Sept. 20; v. 290; p. 517.

Baeumle, John, Milwaukee, Wis. Resilient traction-wheel. No. 1,391,445; Sept. 20; v. 290; p. 535.

Bailly, Armand, Paris, France. Pneumatic hammer. No. 1,391,162; Sept. 20; v. 290; p. 477.

Bake-Rite Oven Manufacturing Company. (See Lindsey, Ernest E., assignor.)

Baker, William E., Rock Island, Ill. Fluid-pressure engine. No. 1,391,446; Sept. 20; v. 290; p. 535.

Balough, Charles, assignor to The Hercules Motor Manufacturing Company, Canton, Ohio. Oil-sealing device. No. 1,391,293; Sept. 20; v. 290; p. 503.

Bamberger, L., & Company. (See Kaskell, Chester C., assignor.)

Banbury, Fernley H., Ansonia, assignor to Birmingham Iron Foundry, Derby, Conn. Machine for treating rubber and other heavy plastic material. No. 1,390,976; Sept. 20; v. 290; p. 439.

Bancroft, Frank H., assignor to P. Derby & Company, Gardner, Mass. Joint. No. 1,391,163; Sept. 20; v. 290; p. 477.

Barbarou, Marius J. B., Paris, France. Back axle for motor-cars. No. 1,391,294; Sept. 20; v. 290; p. 504.

Barkschat, Henry, Los Angeles, Calif. Machine for centrifugal formation of plastic bodies. No. 1,391,164; Sept. 20; v. 290; p. 477.

Barnum, Thomas E., assignor to The Cutler-Hammer Mfg. Co., Milwaukee, Wis. Motor-controller. No. 1,391,295; Sept. 20; v. 290; p. 504.

Baron, George, Montreal, Quebec, Canada. Bolt-lock. No. 1,391,447; Sept. 20; v. 290; p. 535.

Basile, Joseph, New York, assignor of one-half to Greenpoint Metallic Bed Company, Brooklyn, N. Y., and one-half to Joseph Turk Manufacturing Co., Bradley, Ill. Bedstead. No. 1,391,448; Sept. 20; v. 290; p. 535.

Baumgard, Frank H., Columbus, Ohio. Candy-sugaring machine. No. 1,391,604; Sept. 20; v. 290; p. 566.

Bayley & Sons. (See Bayley, Robert W., assignor.)

Bayley, Robert W., assignor to Bayley & Sons, Inc., Brooklyn, N. Y. Lighting unit. No. 1,391,235; Sept. 20; v. 290; p. 492.

Beach, Chester H., assignor to Wisconsin Electric Company, Racine, Wis. Electric grinder. No. 1,391,039; Sept. 20; v. 290; p. 452.

Beach, Chester H., Racine, Wis., assignor to Moore Electric Corporation, Chicago, Ill. Flexible-shaft guard. No. 1,391,092; Sept. 20; v. 290; p. 463.

Beach, Walter L., Flint, Mich. Automobile-signal-controlling device. No. 1,391,360; Sept. 20; v. 290; p. 517.

Beach, Walter L., Flint, Mich. Exhibitor for signals. No. 1,391,361; Sept. 20; v. 290; p. 517.

Behr, Henrietta, Philadelphia, Pa. Kitchen utensil. No. 1,390,977; Sept. 20; v. 290; p. 439.

Belais, David, and A. R. Bondy, New York, N. Y.; said Bondy assignor to said Belais. White gold. No. 1,391,449; Sept. 20; v. 290; p. 535.

Belden, Robert, Belden, Calif. Washing-machine. No. 1,391,605; Sept. 20; v. 290; p. 567.

Bender, John G., *et al.* (See Wilson, James M., assignor.)

Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)

Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Electric iron. No. 1,391,296; Sept. 20; v. 290; p. 504.

Bentley, George H., and E. G. Appleby, Westminster, London, England. Apparatus for agitating the fuel in gas-generators. No. 1,391,236; Sept. 20; v. 290; p. 492.

Bequette, Richard J., *et al.* (See Gilthorpe, Stanley C., assignor.)

Berdon, Albert E., assignor to Dodge Brothers, Detroit, Mich. Oil-pan heater. No. 1,391,040; Sept. 20; v. 290; p. 452.

Berry, John S., Plainfield, N. J. Window structure. No. 1,391,237; Sept. 30; v. 290; p. 492.

Best, William N., Brooklyn, assignor of one-fourth to G. B. Phelps, New York, N. Y.; one-fourth to S. A. Meisser, Quincy, Ill., and one-fourth to M. S. Spies, Creston, Iowa. Child's vehicle. No. 1,391,165; Sept. 20; v. 290; p. 477.

Bethlehem Steel Company. (See Evans, Fred, assignor.)

Bethlehem Steel Company. (See Lachman, Maurice, assignor.)

Bevelle, Joseph C., and J. J. Smith, El Paso, Tex. Valve and valve-seat. No. 1,391,450; Sept. 20; v. 290; p. 535.

Bickel, Edward, Seattle, Wash. Knockdown chair. No. 1,391,362; Sept. 20; v. 290; p. 517.

Bickel, Joseph W., Chicago Heights, Ill. Meter. No. 1,391,093; Sept. 20; v. 290; p. 463.

Bidwell, William T., Atlanta, Ga. Heating generating plant. No. 1,391,451; Sept. 20; v. 290; p. 536.

Birmingham Iron Foundry. (See Banbury, Fernley H., assignor.)

Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Cap for conduit outlet-boxes. No. 1,391,524; Sept. 20; v. 290; p. 551.
Blakeslee, Talbert W., Erie, Pa. Syringe. No. 1,391,606; Sept. 20; v. 290; p. 567.
Blood, Thomas G., Birmingham, England. Saucepan and like cooking and heating appliances. No. 1,391,525; Sept. 20; v. 290; p. 551.
Bondy, Alfred R. (See Belais, D., and Bondy.)
Boode, Axel. (See Nelson, N. S., and Boode.)
Boon, Henry G., Appleton, and C. A. Fourness, assignors to Kimberly-Clark Company, Neenah, Wis. Sizing-tester. No. 1,391,041; Sept. 20; v. 290; p. 452.
Booth, William W., Toledo, Ohio. Supplementary handle for tools. No. 1,391,452; Sept. 20; v. 290; p. 536.
Bourgeois, Victor L. J., assignor of one-half to J. N. Dubois, Montreal, Quebec, Canada. Loading and unloading apparatus for vehicles. No. 1,391,607; Sept. 20; v. 290; p. 567.
Boye Needle Mfg. Company, The. (See Carlson, Gustav A., assignor.)
Bozik, Lukas, Livingston, Ill. Furniture-caster. No. 1,391,363; Sept. 20; v. 290; p. 518.
Bowlsby, Bruce F., Brampton, N. D. Magazine-loader. No. 1,391,453; Sept. 20; v. 290; p. 536.
Brabant, John W., La Crosse, Wis. Mixing-machine. No. 1,391,454; Sept. 20; v. 290; p. 536.
Brach, Frank V., Chicago, Ill. Detachable cuff. No. 1,391,094; Sept. 20; v. 290; p. 463.
Bradley, Jessie C., Oakland, Calif. Auxiliary heating-plate. No. 1,391,166; Sept. 20; v. 290; p. 478.
Bradley, William H., assignor to The Automatic Metal Products Company, Springfield, Ohio. Metal-working machine. No. 1,390,978; Sept. 20; v. 290; p. 439.
Braunsdorf, William, New York, N. Y. Ticket-holder. No. 1,390,979; Sept. 20; v. 290; p. 439.
Brewer, Basil, Cleveland, Ohio. Paper-measuring attachment for printing-presses. No. 1,391,042; Sept. 20; v. 290; p. 453.
Bried, Julien A., Oakland, assignor of one-half to S. L. Rogers, San Francisco, Calif. Construction of pulley and friction-wheel lagging. No. 1,391,238; Sept. 20; v. 290; p. 493.
Bristol, John I. D. (See Curtis, H. K., and Hunter, assignors.)
Broad, William, Beaver Falls, assignor of three-fourths to H. E. McLain, Pittsburgh, Pa. Spark-intensifier. No. 1,391,239; Sept. 20; v. 290; p. 493.
Brommer, John F., New York, N. Y. Talking-machine. No. 1,391,455; Sept. 20; v. 290; p. 536.
Broschart, Jacob L., Trenton, Mo. Pipe-coupling. No. 1,391,456; Sept. 20; v. 290; p. 537.
Brosius, John G., Tulsa, Okla. Door and window construction. No. 1,391,608; Sept. 20; v. 290; p. 567.
Brown, A. G., Boveri & Cie. (See Aichelle, Albert, assignor.)
Brown, George D., Barrie, Ontario, Canada. Smoke-consumer. No. 1,391,609; Sept. 20; v. 290; p. 567.
Buckley, John A., and J. Nadeau, Port Alberni, British Columbia; said Nadeau assignor of one-half of his right to R. Mullally, Vancouver, British Columbia, Canada. Wire-rope choker-sling. No. 1,391,457; Sept. 20; v. 290; p. 537.
Budd, Thomas D., Chicago, Ill. Grain-elevator. No. 1,391,297; Sept. 20; v. 290; p. 504.
Budd Wheel Corporation. (See Ibach, Emil, assignor.)
Budrow, Edward H., Meriden, assignor to The Steel Products Company, Hartford, Conn. Connecting device. No. 1,390,980; Sept. 20; v. 290; p. 439.
Buff, Frank L., Wichita, Kans. Traffic-signal. No. 1,391,240; Sept. 20; v. 290; p. 493.
Bulow, Carl V., Bridgeport, Conn. Joint. No. 1,391,364; Sept. 20; v. 290; p. 518.
Burnham, George A., Saugus, assignor to S. B. Condit, Jr., Brookline, Mass. Lockout-relay. No. 1,391,241; Sept. 20; v. 290; p. 493.
Burroughs Adding Machine Company. (See Pasinski, Walter J., assignor.)
Burson, Wilson W., assignor to B. Z. B. Knitting Co., Rockford, Ill. Needle for knitting-machines. No. 1,391,043; Sept. 20; v. 290; p. 453.
Burt, James H., Springfield, Mass., assignor to Thrift-Garter Co. Inc., New York, N. Y. Hose-supporter. No. 1,391,298; Sept. 20; v. 290; p. 505.
Bustillo y Diego, Ramón J., Habana, Cuba. Drafting appliance or equipment. No. 1,391,530; Sept. 20; v. 290; p. 552.
Butler, Aaron T., Linton, Ind. File protector and sheath. No. 1,391,458; Sept. 20; v. 290; p. 537.
Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,391,610; Sept. 20; v. 290; p. 567.
Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,391,611; Sept. 20; v. 290; p. 568.
Butler, Frank L., Chicago, Ill. Electric fixture. No. 1,391,612; Sept. 20; v. 290; p. 568.
Butler, George P., assignor to Winchester Repeating Arms Co., New Haven, Conn. Screwdriver. No. 1,391,242; Sept. 20; v. 290; p. 493.
Butler, Harry R., Pelham Manor, assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Hoist-trolley. No. 1,390,981; Sept. 20; v. 290; p. 440.
Buzzaird, Raleigh B., Washington, D. C., assignor, by mesne assignments, to Davis Automatic Equipment Corporation, New York, N. Y. Locker. No. 1,391,044; Sept. 20; v. 290; p. 453.
Byles, Wilson W. (See Park, L. L., and Byles.)
Calico Printers Association, Limited, The. (See Roberts, Frederic.)
Capener, Alick W. (See Sinfield, E., and Goldfinch, assignors.)
Carling, Francis, Belfast, Ireland. Artificial tooth. No. 1,391,651; Sept. 20; v. 290; p. 576.
Carlson, Dean W., Manette, Wash. Automatic switch. No. 1,391,167; Sept. 20; v. 290; p. 478.
Carlson, Frank W., Oilfields, Calif. Device for fastening belts. No. 1,391,168; Sept. 20; v. 290; p. 478.
Carlson, Gustav A., assignor to The Boye Needle Company, Chicago, Ill. Method of and apparatus for manufacturing crochet-needles. No. 1,391,365; Sept. 20; v. 290; p. 518.
Carpenter, William H., Brooklyn, N. Y. Signaling device. No. 1,391,243; Sept. 20; v. 290; p. 494.
Case, George A., Joplin, Mo. Agricultural system. No. 1,391,169; Sept. 20; v. 290; p. 478.
Casler, Herman, Canastota, N. Y. Drill-chuck. No. 1,391,299; Sept. 20; v. 290; p. 505.
Castellanos, Guillermo, Los Angeles, Calif. Typewriter attachment. No. 1,391,244; Sept. 20; v. 290; p. 494.
Catron, John J., Bonham, Tex. Vent device. No. 1,391,245; Sept. 20; v. 290; p. 494.
Central Metal Products Corporation, The. (See Connell, Andrew J., assignor.)
Chadwick, Arthur B., South Whitley, Ind., assignor to Grip Nut Company, Chicago, Ill. Machine for compressing lock-nuts and the like. No. 1,391,170; Sept. 20; v. 290; p. 478.
Chaiken, Hyman F., Reading, Pa. Toothbrush. No. 1,391,459; Sept. 20; v. 290; p. 537.
Champion Shoe Machinery Company. (See Dobyne, Stephen A., assignor.)
Champonnois, Paul L., Villiers-le-Sec, Creuilly, France. Motor-plow. No. 1,391,366; Sept. 20; v. 290; p. 518.
Charushin, Vladimir, *et al.* (See Fickett, E. L., and Charushin.)
Chase, Cassius S. (See McLaughlin, William H., assignor.)
Chase, William F., Peekskill, N. Y. Machine for making glass beads. No. 1,391,527; Sept. 20; v. 290; p. 551.
Chekenian, Harootun. (See Ohanian, Garabed, assignor.)
Chellberg, Walter F., Chicago, Ill. Portable boring-bar. No. 1,391,045; Sept. 20; v. 290; p. 453.
Cheston, Arthur S., London, England. Folding or collapsible head or hood of vehicles. No. 1,391,369; Sept. 20; v. 290; p. 519.
Chisholm, Charles, St. Cloud, Minn. Hook and eye. No. 1,391,613; Sept. 20; v. 290; p. 568.
Chollet, Louis, Paris, France. Sound signaling device. No. 1,391,367; Sept. 20; v. 290; p. 519.
Christensen, Edna M., Winner, S. D. Receptacle for crochet-thread and the like. No. 1,390,982; Sept. 20; v. 290; p. 440.
Christensen, Hans, Chicago, Ill. Earth-pulverizing machine. No. 1,391,614; Sept. 20; v. 290; p. 568.
Christenson, Ernst, Stockton, Kans. Gate-operating mechanism. No. 1,391,095; Sept. 20; v. 290; p. 463.
Chryst, William A., Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Ignition system. No. 1,391,460; Sept. 20; v. 290; p. 537.
Chryst, William A. (See Kettering, C. F., and Chryst.)
Cincinnati Frog & Switch Company, The. (See Partington, Charles, assignor.)
Cison, John, Wausau, Wis. Hydroplane. No. 1,391,368; Sept. 20; v. 290; p. 519.
Clark, Sank. (See Wolff, Edwin H., assignor.)
Clarke, Charles M., Sewickley, Pa. Support for telephone-receivers. No. 1,391,370; Sept. 20; v. 290; p. 519.
Cleveland Osborn Manufacturing Company. (See Frost, Clinton E., assignor.)
Cleveland Osborn Manufacturing Company, The. (See Tuttle, Frank P., assignor.)
Cleveland Tractor Company, The. (See Greiner, Anton F., assignor.)
Cohen, William E. (See Krechmer, H. H., and Cohen.)
Colas, Joseph E., and E. L. M. Ragonot, Paris, France. Indicating, recording, and controlling device actuated by an electric current. No. 1,391,321; Sept. 20; v. 290; p. 510.
Coldby, Alex V. (See Mayer, G. K., Andrews, and Coldby.)
Collier, Benjamin P., Albany, Ala. Cotton-chopper. No. 1,391,246; Sept. 20; v. 290; p. 494.
Colour Photography Limited. (See Friese-Greene, William, assignor.)
Compagnie d'Applications Mecaniques. (See Rouanet, Louis, assignor.)
Comstock, Daniel F., Brookline, assignor to Kalmus, Comstock & Wescott Incorporated, Boston, Mass. Color cinematography. No. 1,390,983; Sept. 20; v. 290; p. 440.
Condit, Sears B., Jr. (See Burnham, George A., assignor.)
Condon, Ernest L., Medway, assignor to United Soda Fountain Company, Boston, Mass. Combined cover and ladle. No. 1,391,371; Sept. 20; v. 290; p. 519.
Connell, Andrew J., College Point, N. Y., assignor, by mesne assignments, to The Central Metal Products Corporation. Film-reel. No. 1,391,372; Sept. 20; v. 290; p. 519.

Connor, Thomas F., Decorah, Iowa. Wrench. No. 1,391,461; Sept. 20; v. 290; p. 538.
Conover, Ralph, and L. Hull, Terre Haute, Ind. Circuit-closer for musical instruments. No. 1,390,984; Sept. 20; v. 290; p. 440.
Conte, Attilio, Buenos Aires, Argentina. Safety device for locks. No. 1,391,615; Sept. 20; v. 290; p. 569.
Cook, Wallace L., Chicago, Ill. Lightning-arrester. No. 1,391,046; Sept. 20; v. 290; p. 453.
Copen, Eliza H., Akron, Ohio. Shaker. No. 1,391,096; Sept. 20; v. 290; p. 463.
Corcoran, Thos. J., Lamp Company, The. (See Kuen, Eugene A., assignor.)
Cornelison, Helen R., East Cleveland, Ohio. Cabinet. No. 1,391,462; Sept. 20; v. 290; p. 538.
Coters, Fernando, Central Feliz, Cuba. Double oil-burner. No. 1,391,047; Sept. 20; v. 290; p. 454.
Councel, William, assignor of one-half to J. Roche, St. Louis, Mo. Water-tube boiler. No. 1,391,300; Sept. 20; v. 290; p. 505.
Cowen Truck Company. (See Hennessy, Daniel E., assignor.)
Cowles, Edward A., Cleveland, Ohio. Milling-cutter. No. 1,391,097; Sept. 20; v. 290; p. 464.
Cox, William G., Cleveland, Ohio. Bracket for spring-bar bumpers. No. 1,391,373; Sept. 20; v. 290; p. 520.
Cranford, Rufus C., De Land, Fla. Window-shade bracket. No. 1,391,528; Sept. 20; v. 290; p. 552.
Cranmer, John J., assignor of one-fourth to L. Payton, Pine Grove, and one-fourth to J. W. Preston, Jr., San Francisco, Calif. Ore-milling machine. No. 1,391,301; Sept. 20; v. 290; p. 505.
Crawford, Harry H., Chicago, Ill. Hanger for use in concrete ceilings. No. 1,390,985; Sept. 20; v. 290; p. 441.
Creed, William T., Irving, Tex. Meat-cutting machine. No. 1,391,616; Sept. 20; v. 290; p. 569.
Crochat, Henry, Paris, France. Electrical driving. No. 1,391,529; Sept. 20; v. 290; p. 552.
Crosby, Alphonzo S., *et al.* (See Huber, William E., assignor.)
Cross, Harry, Woodstock, Ill. Shock-absorber. (Reissue.) No. 15,197; Sept. 20; v. 290; p. 577.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Curtis, Horace K., and L. T. Hunter, assignors of one-third to J. I. D. Bristol, Chappaqua, N. Y. Bottle-capping machine. No. 1,391,647; Sept. 20; v. 290; p. 575.
Custer, Levitt L., Dayton, Ohio. Driving mechanism for automobiles. No. 1,391,098; Sept. 20; v. 290; p. 464.
Cutler-Hammer Mfg. Co., The. (See Barnum, Thomas E.)
Czaran, Otto, Long Island City, N. Y. Making belting. No. 1,391,302; Sept. 20; v. 290; p. 506.
Dain, Joseph, assignor to Deere and Company, Moline, Ill. Tractor. No. 1,390,986; Sept. 20; v. 290; p. 441.
Daniel, Henry, assignor to Kiel Machine Co., Kiel, Wis. Steering device for drawing-vehicles. No. 1,391,171; Sept. 20; v. 290; p. 479.
Davis Automatic Equipment Corporation. (See Buzzard, Raleigh B., assignor.)
Dawson, William, & Sons (Othy) Limited, *et al.* (See Payne, Sydney, and Stott, assignors.)
Day, Alfred L., Brookline, Mass., assignor to Day Perforator Company. Perforating-machine. No. 1,391,099; Sept. 20; v. 290; p. 464.
Day Perforator Company. (See Day, Alfred L., assignor.)
Dayton Engineering Laboratories Company, The. (See Chryst, William A.)
Dayton Engineering Laboratories Company, The. (See Kettering, C. F., and Chryst, assignors.)
Dearborn, Richard J., Plandome, N. Y., assignor to A. Kingsbury, Pittsburgh, Pa. Bearing. No. 1,391,463; Sept. 20; v. 290; p. 530.
Deere and Company. (See Dain, Joseph, assignor.)
Deere & Company. (See Wilson, Frederick D., assignor.)
De Escobales, Hilarion, assignor to H. Escobales Co. Inc., New York, N. Y. Method of and apparatus for packaging articles. No. 1,391,173; Sept. 20; v. 290; p. 479.
De Escobales, Hilarion, assignor to H. Escobales Co. Inc., New York, N. Y. Apparatus for producing packages. No. 1,391,174; Sept. 20; v. 290; p. 479.
Degenhart, George J., Springfield, Ohio. Drainage-tube. No. 1,391,464; Sept. 20; v. 290; p. 538.
Dell, Mary E., Glendale, Calif. Hygienic garter and supporter. No. 1,391,100; Sept. 20; v. 290; p. 464.
Dellamaria, Luigi, Tulare, Calif. Lock-alarm. No. 1,391,176; Sept. 20; v. 290; p. 479.
Demeter, John, Stratton, Ontario, Canada. Railway-rail joint. No. 1,391,465; Sept. 20; v. 290; p. 538.
Den Besten, Gerrit. (See Hulsebos, A. B., and Den Besten.)
Denison, Frederick S., assignor to Minneapolis Heat Regulator Company, Minneapolis, Minn. Thermostatic switch. No. 1,390,987; Sept. 20; v. 290; p. 441.
Denmire, Harold A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Thread-guide for ball-winders. No. 1,391,247; Sept. 20; v. 290; p. 494.
Derby, P., & Company. (See Bancroft, Frank H., assignor.)
Dessart, Franklin M., Brooklyn, N. Y. Mask. No. 1,391,617; Sept. 20; v. 290; p. 569.
Dobyne, Stephen A., assignor to Champion Shoe Machinery Company, St. Louis, Mo. Heating system for wax-thread sewing-machines. No. 1,391,048; Sept. 20; v. 290; p. 454.
Dodds, Ethan I., assignor to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,390,988; Sept. 20; v. 290; p. 441.
Dodge Brothers. (See Berdon, Albert E., assignor.)
Doe, Loring B., San Francisco, Calif. Draft means. No. 1,391,101; Sept. 20; v. 290; p. 464.
Doremus, Charles A., New York, N. Y. Production of aluminum salts. No. 1,391,172; Sept. 20; v. 290; p. 479.
Dorrance, David W., San Jose, Calif. Artificial-limb joint. (Reissue.) No. 15,198; Sept. 20; v. 290; p. 577.
Dorton, William, Leadwood, Mo. Jig. No. 1,391,531; Sept. 20; v. 290; p. 552.
Doty, Lillian F., La Grange, Ill. Undergarment. No. 1,391,618; Sept. 20; v. 290; p. 569.
Doud, Charles A., Underwood, Wyo. Excavating-machine. No. 1,391,532; Sept. 20; v. 290; p. 552.
Douglas & Rudd Mfg. Co. (See Douglas, Harry A., assignor.)
Douglas, Harry A., assignor to Douglas & Rudd Mfg. Co., Bronson, Mich. Connector. No. 1,391,303; Sept. 20; v. 290; p. 506.
Dowling, Francis J., New York, N. Y. Locking hinge or connector. No. 1,391,304; Sept. 20; v. 290; p. 506.
Dubois, Joseph N. (See Bourgeois, Victor L. J., assignor.)
Dudas, Andrew. (See Szucs, Stephen, assignor.)
Duncan, Broughan G. (See Duncan, Curlaw and B. G.)
Duncan, Curlaw and B. G., Minneapolis, Minn. Tire-pressure device and gage for vulcanizing-molds. No. 1,391,374; Sept. 20; v. 290; p. 520.
Dunham, Charles A., St. Paul, Minn. Adjustable detector-bar support. No. 1,390,989; Sept. 20; v. 290; p. 441.
Dure, Miller O. (See Emery, Harry S., assignor.)
Du Sell, Giles H., assignor to Independent Pneumatic Tool Company, Chicago, Ill. Chuck. No. 1,391,177; Sept. 20; v. 290; p. 480.
Eastern Manufacturing Company. (See Little, A. L., and Verow, assignors.)
Eckstein, Reuben J., Kitchener, Ontario, Canada. Key-holder. No. 1,391,533; Sept. 20; v. 290; p. 553.
Eclipse Machine Company, The. (See Mentzer, Claude E., assignor.)
Economy Sales Company. (See Simpson, John T., assignor.)
Edgecombe, Edward F., Jr., Indianapolis, Ind., assignor to Meier-Gaynor Mfg. Co., Indianapolis, Ind. Cap-feeder for bottle-cappers. No. 1,391,648; Sept. 20; v. 290; p. 575.
Edwards, William E., Johnson City, and H. O. Stalker, Binghamton, N. Y. Size and style stamp for insoles and outsoles of shoes. No. 1,391,175; Sept. 20; v. 290; p. 479.
Edwinson, Louis A., Topeka, Kans. Ratchet-wrench. No. 1,391,619; Sept. 20; v. 290; p. 569.
Eldridge, Robert A., Herne Bay, England. Navigational instrument. No. 1,391,305; Sept. 20; v. 290; p. 506.
Electrical Engineers Equipment Company. (See Jacobs, Ernest H., assignor.)
Eliaser, Ralph, San Francisco, Calif. Game. No. 1,391,306; Sept. 20; v. 290; p. 506.
Ellison, Edward H., assignor to Monarch Refillable Fuse Co., Jamestown, N. Y. Electric fuse. No. 1,391,534; Sept. 20; v. 290; p. 553.
Emerson-Brantingham Company. (See Waterman, Lewis E., assignor.)
Emery, Harry T., assignor of one-half to M. O. Dure, Norwood, Ohio. Ash-separator. No. 1,391,178; Sept. 20; v. 290; p. 480.
Enders, Frederick B., De Quincy, La. Forming grain-shocks. No. 1,391,248; Sept. 20; v. 290; p. 495.
Endless Belt Corporation. (See Grupe, William F., assignor.)
Epstein, Albert M., Elmira, N. Y. Dental impression-tray. No. 1,391,535; Sept. 20; v. 290; p. 553.
Erich, Reuben, R., San Jose, Calif. Canning-machine. No. 1,391,307; Sept. 20; v. 290; p. 507.
Ericson, Charles G., Toronto, Ontario, Canada. Apparatus for removing excess spelter from hot galvanized articles. No. 1,390,990; Sept. 20; v. 290; p. 442.
Erzinger, Henry J., *et al.* (See Huber, William E., assignor.)
Escobales, H., Co. (See de Escobales, Hilarion, assignor.)
Essex Motors. (See Fekete, Stephen L., assignor.)
Evans, Edwin J., and G. E. Hemphill, Salt Lake City, Utah, assignors to Universal Tool Company. Monkey-wrench. No. 1,391,179; Sept. 20; v. 290; p. 480.
Evans, Edwin J., and G. E. Hemphill, Salt Lake City, Utah, assignors to Universal Tool Company. Wrench. No. 1,391,180; Sept. 20; v. 290; p. 480.
Evans, Fred, Summit, N. J., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Grouter device for tractor-wheels. No. 1,391,049; Sept. 20; v. 290; p. 454.
Evaporating and Drying Machinery Company, The. (See Miller, John C., assignor.)
Fairbairn, Francis A., assignor to Palmers Limited, Montreal, Quebec, Canada. Vanity-case. No. 1,391,050; Sept. 20; v. 290; p. 454.
Faulk, Charles L., Cleveland, Ohio. Cuff-button. No. 1,391,620; Sept. 20; v. 290; p. 570.
Federal Stamping Company. (See Somers, R. B., and Olinger, assignors.)

Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Oil-cup. No. 1,391,466; Sept. 20; v. 290; p. 539.
Fekete, Stephen I., assignor to Essex Motors, Detroit, Mich. Oil-cup. No. 1,391,467; Sept. 20; v. 290; p. 539.
Fellows, James A., assignor to Globe Ticket Company, Philadelphia, Pa. Ticket or check notching device. No. 1,391,536; Sept. 20; v. 290; p. 553.
Felt & Tarrant Manufacturing Company. (See Turck, Joseph A. V., assignor.)
Fenwirth, Frederick H., New York, N. Y. Extension-rule. No. 1,391,621; Sept. 20; v. 290; p. 570.
Ferguson, Edward E., Portsmouth, assignor of one-half to C. Van Fleming, Norfolk, Va. Combined fire-alarm box and hydrant. No. 1,391,622; Sept. 20; v. 290; p. 570.
Ferlin, John J. (See Zanon, Remo C., assignor.)
Fickett, Ernest L., and V. Charushin, Fitchburg, Mass., assignors to Manning, Maxwell & Moore, Inc., New York, N. Y. Tool-holder. No. 1,391,375; Sept. 20; v. 290; p. 520.
Fiedler, Sebastien O. A., assignor to l'Auxiliaire des Chemins de Fer et de l'Industrie, Paris, France. Means for supplying steam-boilers with feed-water. No. 1,391,308; Sept. 20; v. 290; p. 507.
Finney, Tressie V., Olildale, Calif. Attachment for high chairs for babies. No. 1,391,249; Sept. 20; v. 290; p. 495.
Fisher, Stanley L., Chester, Pa., assignor to The Pratt Read Player Action Company, Deep River, Conn. Player-piano. No. 1,391,376; Sept. 20; v. 290; p. 520.
Fitzsimmons, Osborne, Chicago, Ill. Bottle carrier and support. No. 1,391,537; Sept. 20; v. 290; p. 553.
Flannery Bolt Company. (See Dodds, Ethan I., assignor.)
Foell, Walter C., Waterbury, Conn. Cap-closure. No. 1,391,538; Sept. 20; v. 290; p. 554.
Forcier, William G., Wollaston, Mass. Damper for ventilating systems. No. 1,391,309; Sept. 20; v. 290; p. 507.
Ford, Max, New York, N. Y. Bow-necktie fastener. No. 1,391,102; Sept. 20; v. 290; p. 465.
Forgiel, Jakob. (See Sokolowski, S., and Forgiel.)
Foster Brothers Manufacturing Company. (See Foster, William B., assignor.)
Foster, James G. (See Stevens, Joseph B., assignor.)
Foster, Machine Company. (See McKean, John O., assignor.)
Foster, William B., assignor to Foster Brothers Manufacturing Company, Utica, N. Y. Bracket for angular-walled tubing. No. 1,391,103; Sept. 20; v. 290; p. 465.
Fotchuk, Theodor, Toronto, Ontario, Canada. Shoe-closure. No. 1,390,991; Sept. 20; v. 290; p. 442.
Fourness, Charles A. (See Boon, H. G., and Fourness.)
Frankel, Adolph, New York, N. Y. Snap-fastener. No. 1,391,250; Sept. 20; v. 290; p. 495.
Franzen, Harm, Phoenix, Ariz. Runner for sickle-bars. No. 1,391,181; Sept. 20; v. 290; p. 480.
Freeze, Elisha C., St. Louis, Mo. Radiator-hood. No. 1,391,468; Sept. 20; v. 290; p. 539.
French Battery & Carbon Co. (See Ruhoff, Otto E., assignor.)
Friese-Greene, William, assignor to Colour Photography Limited, London, England. Color photography. No. 1,391,310; Sept. 20; v. 290; p. 507.
Fritchle, Oliver P., Denver, Colo. Current-generating plant. No. 1,391,377; Sept. 20; v. 290; p. 520.
Frost, Clarence M., Attleboro, Mass. Aerated-water-supply device. No. 1,391,311; Sept. 20; v. 290; p. 507.
Frost, Clinton E., East Cleveland, assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Rotary brush. No. 1,391,051; Sept. 20; v. 290; p. 454.
Fryman, Harry, Grimsby, Lincoln, England. Signaling apparatus for vehicles. No. 1,391,623; Sept. 20; v. 290; p. 570.
Gale, Laburton A., Belmont, assignor to Library Bureau, Cambridge, Mass. Index-card. No. 1,391,182; Sept. 20; v. 290; p. 481.
Gardner, Sydney B., Benson, Minn. Trench-wall-supporting machine. No. 1,391,624; Sept. 20; v. 290; p. 570.
Garey, John E. (See Goyette, William E., assignor.)
Gaston, Alanson D., Washington, D. C. Combined nut and bolt lock. No. 1,391,378; Sept. 20; v. 290; p. 521.
Gebhardt, Edward J., Hoboken, N. J. Sled. No. 1,391,312; Sept. 20; v. 290; p. 508.
Geier, P. A., Company, The. (See Robertson, Frank E., assignor.)
Geiger, William A., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Reversibly-operable hand-brake. No. 1,391,052; Sept. 20; v. 290; p. 455.
Geisler, Alexander L., Bristol, R. I. Locking hook. No. 1,391,625; Sept. 20; v. 290; p. 570.
Geist Manufacturing Company. (See Wiederwax, Robert W., assignor.)
General Electric Company. (See Webster, Samuel T., assignor.)
Geoffrion, Victor, L'Assomption, Quebec, Canada. Filing-cabinet for plans. No. 1,391,313; Sept. 20; v. 290; p. 508.
George Ralph D., Kansas City, Mo. Transmission-gearing. No. 1,391,314; Sept. 20; v. 290; p. 508.
Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Co., Plainville, Conn. Electromagnetic trip mechanism. No. 1,391,469; Sept. 20; v. 290; p. 539.
Gillian, Herman A., assignor to The Bacon Bros. Company, Toledo, Ohio. Material-handling. No. 1,391,183; Sept. 20; v. 290; p. 481.
Gilthorpe, Stanley C., assignor of one-third to B. J. Bequette and one-third to H. C. Leake, New Orleans, La. Drill-head for well-drilling apparatus. No. 1,391,626; Sept. 20; v. 290; p. 571.
Ginsburg, Michael I., Philadelphia, Pa. Slip-jaw wrench. No. 1,391,251; Sept. 20; v. 290; p. 495.
Glenn, Oscar, Butte, Mont. Safety device for mine-cages. No. 1,391,539; Sept. 20; v. 290; p. 554.
Globe Ticket Company. (See Fellows, James A., assignor.)
Godkevitch, Abraham H., New York, N. Y. Wooden shipping-case. No. 1,391,470; Sept. 20; v. 290; p. 539.
Gohlke, Max, Pankow, near Berlin, Germany. Ball-bearing. No. 1,391,379; Sept. 20; v. 290; p. 521.
Goldfinch, William H. (See Sinfield, E., and Goldfinch.)
Gomes, Joseph T., Goldfield, Nev. Spark-plug cleaner. No. 1,391,471; Sept. 20; v. 290; p. 539.
Goodrich, B. F., Company, The. (See Denmire, Harold A., assignor.)
Gordon, William E., Winnipeg, Manitoba, Canada. Spring winding or stressing mechanism for talking-machines. No. 1,391,315; Sept. 20; v. 290; p. 508.
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Gould, Joseph R., West Springfield, Mass. Fluid-actuated liquid-measuring pump. No. 1,391,104; Sept. 20; v. 290; p. 465.
Gourland Typewriter Corporation. (See Spiro, Charles, assignor.)
Goyette, William E., Philadelphia, Pa., assignor to J. E. Garey, Elmira Heights, N. Y. Yarn-cleaning device. No. 1,391,540; Sept. 20; v. 290; p. 554.
Grant, John A., Atlanta, Ga. Automobile-tire. No. 1,391,541; Sept. 20; v. 290; p. 554.
Grant, Lester E., Auburndale, Mass. Vehicle-lock. No. 1,391,105; Sept. 20; v. 290; p. 465.
Green, Samuel H., Lelant, and J. D. Opie, Hayle, England. Manufacture of malt extract. No. 1,391,159; Sept. 20; v. 290; p. 475.
Greenman, Morris. (See Sprinkle, L. H., and Greenman.)
Greenpoint Metallic Bed Company, *et al.* (See Basile, Joseph, assignor.)
Greiner, Anton F., Cleveland, assignor to The Cleveland Tractor Company, Euclid, Ohio. Steering-gear attachment. No. 1,391,053; Sept. 20; v. 290; p. 455.
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Griesser, William C. (See Griesser, Wilhelm, assignor.)
Grigsby, Marion W., East Peoria, Ill. Vehicle-wheel rim. No. 1,391,472; Sept. 20; v. 290; p. 540.
Grip Nut Company. (See Chadwick, Arthur B., assignor.)
Grupe, William F., Hudson Heights, N. J., assignor to Endless Belt Corporation, Inc. Belt-guiding means. No. 1391118; Sept. 20; v. 290; p. 481.
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Gulbert, Francis W., Detroit, Mich. Internal-combustion engine. No. 1,391,106; Sept. 20; v. 290; p. 465.
Gulbransen, Axel G., assignor to Gulbransen-Dickinson Company, Chicago, Ill. Player-piano. No. 1,391,107; Sept. 20; v. 290; p. 466.
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Hadfield, Hugh R., Akron, Ohio. Construction of walls of preformed units. No. 1,391,316; Sept. 20; v. 290; p. 508.
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Hahn, Harry A., Greenville, Ohio. Battery-plate-burning rack. No. 1,391,649; Sept. 20; v. 290; p. 575.
Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Hammer-drill. No. 1,391,629; Sept. 20; v. 290; p. 571.
Haight, Harry V., Sherbrooke, Quebec, Canada, assignor to Ingersoll-Rand Company, Jersey City, N. J. Percussive tool. No. 1,391,628; Sept. 20; v. 290; p. 571.
Hales, Walter W., New York, and A. Hine, Cedarhurst, N. Y.; said Hine assignor to said Hales. Process and apparatus for improving combustion in explosive-engines. No. 1,391,630; Sept. 20; v. 290; p. 572.
Hall, Charles W., Wakefield, and F. E. Wheeler, Belmont, assignors to Henry F. Miller & Sons Piano Company, Boston, Mass. Bracket for grand-piano actions. No. 1,391,054; Sept. 20; v. 290; p. 455.
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Hamblet, Marcia C., Salem, Mass. Hand-protection device. No. 1,391,108; Sept. 20; v. 290; p. 466.
Hamel, Oscar C., Peabody, Mass. Gearing. No. 1,391,542; Sept. 20; v. 290; p. 554.
Hammersmith, Alfred F., Chicago, Ill. Extension electric-light fixture. No. 1,391,631; Sept. 20; v. 290; p. 572.
Hans, John, assignor of three-fourths to J. P. Haworth, London, England. Device for holding or gripping dish-cloths or the like. No. 1,391,632; Sept. 20; v. 290; p. 572.
Hansen, Charles C., assignor to Refrigerating Specialties Company, Chicago, Ill. Valve-stem packing. No. 1,391,317; Sept. 20; v. 290; p. 508.
Hanson, Clinton A. S., Barron, Wis. Multicylinder for cycle explosion-engines. No. 1,391,473; Sept. 20; v. 290; p. 540.

Hardy, Charles, *et al.* (See Service, William F., assignor.)
Harris, Andrew. (See Swires, James D., assignor.)
Harthan, John F. (See von Bichowsky, F., and Harthan.)
Hartwig, William J. (See Moore, William E., assignor.)
Haskins, Elbert O., Rutherford, N. J., assignor to Richmond Radiator Company. Sectional boiler. No. 1,391,381; Sept. 20; v. 290; p. 521.
Hatfield, W. D. (See Wells, Joseph C., Sr., assignor.)
Haubert, Leo, Muskogee, Okla. Power-delivering attachment for automobile trucks or tractors. No. 1,391,109; Sept. 20; v. 290; p. 466.
Hawkes, Robert L., St. Catharines, Ontario, Canada. Die-making machine. No. 1,391,055; Sept. 20; v. 290; p. 455.
Hawley, James L., Savannah, Ga., assignor of one-half to J. M. Hawley, Blythewood, S. C. Railway-journal-box jack. No. 1,391,382; Sept. 20; v. 290; p. 521.
Hawley, John M. (See Hawley, James L., assignor.)
Haworth, John P. (See Hans, John, assignor.)
Haselton, George, Portadown, Ireland. Screwed mechanism. No. 1,391,633; Sept. 20; v. 290; p. 572.
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Heath, Frederick, assignor to Heath Unit Tile Company, Tacoma, Wash. Hollow-wall construction. No. 1,391,318; Sept. 20; v. 290; p. 509.
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Heidrich, Herman C., *et al.* (See Wilson, James M., assignor.)
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Hendricks, Harry J., Sterling Station, N. Y. Lubricating system. No. 1,391,634; Sept. 20; v. 290; p. 572.
Hennessy, Daniel E., Holyoke, Mass., assignor to Cowan Truck Company. Elevating-truck. No. 1,390,992; Sept. 20; v. 290; p. 442.
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Heppel, Jean, Newark, N. J. Airship. No. 1,390,993; Sept. 20; v. 290; p. 442.
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Herrbold, William J., Kalamazoo, Mich. Paper-stock-treating machine. No. 1,391,056; Sept. 20; v. 290; p. 455.
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Hill, Raymond T., Detroit, Mich. Nut-lock. No. 1,391,186; Sept. 20; v. 290; p. 481.
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Hinsdale, Winfield E., assignor to Trenton Potteries Company, Trenton, N. J. Water-closet. No. 1,391,475; Sept. 20; v. 290; p. 540.
Hinsdale, Winfield E., Trenton, N. J. Water-closet. No. 1,391,476; Sept. 20; v. 290; p. 540.
Hinsdale, Winfield E., and W. H. Hall, Trenton, N. J. Water-closet. No. 1,391,477; Sept. 20; v. 290; p. 541.
Hinzman, Angela C., Chicago, Ill. Book-holder. No. 1,391,112; Sept. 20; v. 290; p. 467.
Hoecken, Karl, Berlin-Friedenau, Germany. Tens-carrying mechanism of computing-machines. No. 1,391,319; Sept. 20; v. 290; p. 509.
Holmes, Andrew J., Tacoma, Wash. Electric heater. No. 1,391,113; Sept. 20; v. 290; p. 467.
Holmes, Edward L., Berkeley, Calif. Phonograph. No. 1,391,543; Sept. 20; v. 290; p. 554.
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Hood, Ernest K., Indianapolis, Ind., and W. B. Wolf, assignors to The American Slicing Machine Co., Chicago, Ill. Operating mechanism for slicing-machines. No. 1,391,320; Sept. 20; v. 290; p. 510.
Hooker, Ray O., Utica, Kans. Machine-gun. No. 1,391,252; Sept. 20; v. 290; p. 495.
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Houston, John D., Prineville, Oreg. Cooling system for internal-combustion engines. No. 1,391,188; Sept. 20; v. 290; p. 482.
Howell, William M., Youngstown, Ohio. Signal for autos. No. 1,391,383; Sept. 20; v. 290; p. 522.
Huber, William E., assignor of one-third to H. J. Erzinger and one-third to A. S. Crosby, Chicago, Ill. Refrigerator-door latch. No. 1,391,114; Sept. 20; v. 290; p. 467.
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Huebner-Bleistein Patents Co. (See Huebner, William C., assignor.)
Huebner, William C., assignor to Huebner-Bleistein Patents Co., Buffalo, N. Y. Holding means for photosensitive plates and the like. No. 1,391,116; Sept. 20; v. 290; p. 468.
Huebner, William C., Buffalo, N. Y. Printing-plate or the like and means for securing the same in predetermined positions in printing-presses. No. 1,391,117; Sept. 20; v. 290; p. 468.
Hull, Henry M., Fairfield, Conn. Chain for vehicle-tires. No. 1,391,254; Sept. 20; v. 290; p. 496.
Hull, Leo. (See Conover, R., and Hull.)
Hulsebos, Albert B., and G. Den Besten, assignors to Safety Release Clevis Co., Holland, Mich. Plow safety-hitch. No. 1,391,058; Sept. 20; v. 290; p. 446.
Hunter, Louis S. (See Curtis, H. K., and Hunter.)
Hutchinson, Hubert. (See Le Fevre, G. A., and Hutchinson, H.)
Hutsell Motor Company, The. (See Hutsell, Thomas A., assignor.)
Hutsell, Thomas A., assignor to The Hutsell Motor Company, Spokane, Wash. Internal-combustion engine. No. 1,391,189; Sept. 20; v. 290; p. 482.
Ibach, Emil, assignor to Budd Wheel Corporation, Philadelphia, Pa. Hub-cap-locking device. No. 1,391,118; Sept. 20; v. 290; p. 468.
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Ihnat, Joe, Nashua, Mont. Cattle-guard for railway-crossings. No. 1,391,384; Sept. 20; v. 290; p. 522.
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Ingersoll-Rand Company. (See Haight, Harry V., assignor.)
International Precipitation Company. (See Welch, Harry V., assignor.)
Irving, John L., assignor to Moline Plow Company, Moline, Ill. Tillage implement. No. 1,391,544; Sept. 20; v. 290; p. 555.
Jacobs, Ernest H., assignor to Electrical Engineers Equipment Company, Chicago, Ill. Disconnecting-switch. No. 1,391,059; Sept. 20; v. 290; p. 456.
Jacobsen, Era C., Oak Park, assignor, by mesne assignments, to American Steam Truck Company, Chicago, Ill. Fuel-burning apparatus. No. 1,391,385; Sept. 20; v. 290; p. 522.
Jandron, Wilfred J., Minneapolis, Minn. Mask for inhalation. No. 1,391,060; Sept. 20; v. 290; p. 456.
Jarosz, Wawzeniec. (See Nawraci, W., and Jarosz.)
Jarvis, Edgar B. (See Morson, W. R., and Jarvis.)
Jennings, Thomas, Cincinnati, Ohio, assignor to The Underfeed Stoker Company of America, Chicago, Ill. Stoker. No. 1,391,061; Sept. 20; v. 290; p. 456.
Jeter, Thomas F., Snohomish, Wash. Burial-vault. No. 1,391,386; Sept. 20; v. 290; p. 522.
Johns Machine and Stamping Works Company, The. (See Stich, Charles F., assignor.)
Johnson, Carl O., St. Paul, Minn. Meat-tenderer. No. 1,391,119; Sept. 20; v. 290; p. 468.
Johnson, Edward E., St. Paul, Minn. Water-column. No. 1,391,545; Sept. 20; v. 290; p. 555.
Johnstone, S., & Company. (See Theband, John E., assignor.)
Jones, Ainsley L., 2d, Mariners Harbor, N. Y. Block system for electric-railway trains. No. 1,391,322; Sept. 20; v. 290; p. 510.
Jones, Ainsley L., 2d, Mariners Harbor, N. Y. Stop device for electric-railway trains. No. 1,391,323; Sept. 20; v. 290; p. 510.
Jones, Aldred J., Detroit, Mich. Automobile caution-signal. No. 1,391,120; Sept. 20; v. 290; p. 468.
Jones, Harry B., assignor to Permanent Products Company, Chicago, Ill. Ventilated silo-stave. No. 1,390,994; Sept. 20; v. 290; p. 443.
Judson, David P., Parnassus, Pa. Gas-burner. No. 1,391,062; Sept. 20; v. 290; p. 457.
Kalmus, Comstock & Wescott. (See Comstock, Daniel F., assignor.)
Kalmus, Comstock & Wescott. (See Wescott, William B., assignor.)
Kampfe, Otto, Bellmore, assignor of one-half to H. C. Walker, New York, N. Y. Safety-razor. No. 1,391,478; Sept. 20; v. 290; p. 541.
Kanner, Samuel. (See Pollak, Abraham, assignor.)
Kappes, William H., assignor to The Verdin, Kappes & Verdin Company, Cincinnati, Ohio. Clutch-trip mechanism. No. 1,391,190; Sept. 20; v. 290; p. 482.
Karandysszewski, Ludwik, Schenectady, N. Y. Trolley-finder. No. 1,391,387; Sept. 20; v. 290; p. 522.
Karl, Julius E., Peoria, Ill. Apparatus for automatically painting articles in bulk. No. 1,391,388; Sept. 20; v. 290; p. 523.
Kaskell, Chester C., assignor to L. Bamberger & Company, Newark, N. J. Coin-box. No. 1,391,063; Sept. 20; v. 290; p. 457.
Katz, Charles S., St. Louis, Mo. Filled Bangkok hat and making same. No. 1,391,546; Sept. 20; v. 290; p. 555.
Kazanjian, Manoog, Charlestown, Mass. Easel. No. 1,391,479; Sept. 20; v. 290; p. 541.
Keeling, Newton C., Danbury, Conn. Automatic train-stopping mechanism. No. 1,391,255; Sept. 20; v. 290; p. 496.
Keith, Henry M., assignor to Keith Pump Company, West Frankfort, Ill. Pump. No. 1,391,324; Sept. 20; v. 290; p. 510.
Keith Pump Company. (See Keith, Henry M., assignor.)
Kelley, Patrick J., Detroit, Mich. Trolley guard and finder. No. 1,391,191; Sept. 20; v. 290; p. 482.
Kellogg Switchboard & Supply Company. (See Mueller, George E., assignor.)
Kelly, Dugald J., Johnston City, Ill. Railway switch-throw and mine switch-throw. No. 1,391,547; Sept. 20; v. 290; p. 555.

Kelsey, George M., Grand Forks, N. D. Spring suspension for vehicles. No. 1,391,192; Sept. 20; v. 290; p. 483.

Kent, Arthur A., Ardmore, assignor to Atwater Kent Manufacturing Company, Philadelphia, Pa. Induction-coil structure. No. 1,391,256; Sept. 20; v. 290; p. 496.

Keppel, Charles J., Monroeville, Ohio. Garment-protector. No. 1,391,121; Sept. 20; v. 290; p. 469.

Kettering, Charles F., and W. A. Chryst, Dayton, Ohio, assignor to The Dayton Engineering Laboratories Company. Engine-starting system. No. 1,391,194; Sept. 20; v. 290; p. 483.

Kiel Machine Co. (See Daniel, Henry, assignor.)

Kiesel, William F., Jr., Altoona, Pa. Ratchet-wrench. No. 1,391,636; Sept. 20; v. 290; p. 573.

Kiffe, Bertram J., Mankato, Minn. Phonographic record and table. No. 1,391,637; Sept. 20; v. 290; p. 573.

Kildahl, Nils, Horton, Mont. Pin-fastener. No. 1,391,480; Sept. 20; v. 290; p. 541.

Killian, Frank B., New Dorp, N. Y. Grease-gun. No. 1,391,325; Sept. 20; v. 290; p. 511.

Killian, John F., Stockton, Calif. Toilet-paper holder. No. 1,391,326; Sept. 20; v. 290; p. 511.

Killits, Morris J., assignor to The S. P. Stone Company, Columbus, Ohio. Mold for concrete blocks. No. 1,391,638; Sept. 20; v. 290; p. 573.

Kimball, A., Company. (See Wallin, Gustaf A., assignor.)

Kimberly-Clark Company. (See Boon, H. G., and Fourness, assignors.)

Knickner, J. Roy. (See Phillippi, Frank A., assignor.)

King, James F., Glasgow, Scotland. Construction of ships. No. 1,391,389; Sept. 20; v. 290; p. 523.

Kingsbury, Albert. (See Dearborn, Richard J.)

Kirkeby, John, San Luis Obispo, Calif. Automatic gear-shifting device. No. 1,391,193; Sept. 20; v. 290; p. 483.

Kitsee, Isidor, Philadelphia, Pa. Dissolving cellulose. No. 1,390,995; Sept. 20; v. 290; p. 443.

Kleckley, Alvin L., Charlotte, N. C. Piston-ring remover. No. 1,391,548; Sept. 20; v. 290; p. 556.

Knapp, Charles, Minneapolis, Minn. Automobile-lock. No. 1,391,390; Sept. 20; v. 290; p. 523.

Knight, Andrew J., Toledo, Ohio. Oil-burner. No. 1,391,481; Sept. 20; v. 290; p. 541.

Knudsen, Simon D., Chicago, Ill. Roof-truss. No. 1,391,122; Sept. 20; v. 290; p. 469.

Koenen, William H., St. Louis, Mo. Shoe-protector. No. 1,391,391; Sept. 20; v. 290; p. 523.

Koontz, Victor R., assignor to The Victor Tool Company, Waynesboro, Pa. Collapsible tap. No. 1,391,639; Sept. 20; v. 290; p. 573.

Kopp, Hugo. (See Baer, R., and Kopp.)

Koyomjian, Neufer, New York, N. Y. Hat-extender. No. 1,391,123; Sept. 20; v. 290; p. 469.

Kraft, Henry P., Ridgewood, N. J. Spreader for pneumatic tires. No. 1,391,482; Sept. 20; v. 290; p. 542.

Kraft, Henry P., Ridgewood, N. J. Spreader for pneumatic tires. No. 1,391,483; Sept. 20; v. 290; p. 542.

Krechmer, Harry H., and W. E. Cohen, Philadelphia, Pa. Snap-fastener. No. 1,391,640; Sept. 20; v. 290; p. 574.

Krom, Stephen A., Birmingham, Ala. Sinter-pan. No. 1,391,124; Sept. 20; v. 290; p. 469.

Kronstein, Pauline. (See Viehweger, August F. W., assignor.)

Kuen, Eugene A., assignor to The Thos. J. Corcoran Lamp Company, Cincinnati, Ohio. Fastening for automobile-lamp closures. No. 1,391,327; Sept. 20; v. 290; p. 511.

L'Auxiliaire des Chemins de Fer et L'Industrie. (See Fiedler, Sebastien, O. A., assignor.)

L. P. T. Specialty Company. (See Lockhart, George L., assignor.)

La Fayette Motors Company. (See White, D'Orsay M., assignor.)

Lachman, Maurice, New York, N. Y., assignor, by mesne assignments, to Bethlehem Steel Company, Bethlehem, Pa. Metal wheel. No. 1,391,064; Sept. 20; v. 290; p. 457.

Ladd, Lester L., assignor to Photometric Products Corporation, Chicago, Ill. Switching or selecting mechanism. No. 1,391,195; Sept. 20; v. 290; p. 483.

Lafond, Joseph V., Chicago, Ill. Handle and shield for cooking vessels. No. 1,391,125; Sept. 20; v. 290; p. 470.

Lafontaine, George A., Los Angeles, Calif. Trolley-restoring mechanism. No. 1,391,392; Sept. 20; v. 290; p. 523.

Lamb, Joseph F., assignor to Landers, Frary & Clark, New Britain, Conn. Ball-ear and ball. No. 1,391,257; Sept. 20; v. 290; p. 496.

Lambert, Rudolph P., Chicago, Ill. Meat-transport. No. 1,391,126; Sept. 20; v. 290; p. 470.

Landers, Frary & Clark. (See Lamb, Joseph F., assignor.)

Lane, Benjamin, Des Moines, Iowa. Pencil attachment. No. 1,391,127; Sept. 20; v. 290; p. 470.

Larkin Co. (See Hornung, Charles G., assignor.)

Larsen, Stella C., Washington, D. C., assignor of one-half to J. W. Rust, Fairfax, Va. Vacuum-can. No. 1,391,549; Sept. 20; v. 290; p. 556.

Lathrop, Harry D. (See Paulson, Walter H., assignor.)

Laurie, Alexander, Carroll, Nebr. Guard-shoe for mowers. No. 1,391,128; Sept. 20; v. 290; p. 470.

Law, George, York, Pa. Open-hearth-furnace door and frame. No. 1,391,196; Sept. 20; v. 290; p. 483.

Law, George, York, Pa. Open-hearth-furnace door and frame. No. 1,391,197; Sept. 20; v. 290; p. 484.

Le Fevre, George A., Richmond Hill, N. Y., and H. Hutchinson, Newark, N. J., assignors to Paxfiat Barrel & Crate Corporation, New York, N. Y. Barrel or crate. No. 1,391,198; Sept. 20; v. 290; p. 484.

Leach, William, Moose Jaw, Saskatchewan, Canada. Train-stopping device. No. 1,391,328; Sept. 20; v. 290; p. 511.

Leake, Hunter C., *et al.* (See Gilthorpe, Stanley C., assignor.)

Lecoutre, Auguste J., assignor to Royal Worcester Corset Co., Worcester, Mass. Front steels on corsets. No. 1,391,393; Sept. 20; v. 290; p. 524.

Lee, Charles L., assignor to The National Cash Register Company, Dayton, Ohio. Ticket-printing mechanism. No. 1,391,129; Sept. 20; v. 290; p. 470.

Lemley, Frederick J., Chicago, Ill. Ball-bearing pulley. No. 1,390,996; Sept. 20; v. 290; p. 443.

Lenders, Adolph W. H., Cedar Rapids, Iowa, assignor, by mesne assignments, to Penick & Ford, Ltd., Incorporated. Food product made from corn and manufacturing the same. No. 1,391,065; Sept. 20; v. 290; p. 457.

Lennig, Edmund B., assignor to Thermic Engineering Co., San Francisco, Calif. Thermostatic device. No. 1,391,329; Sept. 20; v. 290; p. 511.

Letko, Andrew, Indiana Harbor, Ind. Rail-joint fastener. No. 1,391,130; Sept. 20; v. 290; p. 470.

Lewis, Abraham. (See Zsarnay, Béla, assignor.)

Libbey-Owens Sheet Glass Company, The. (See Rhonemus, Clarence A., assignor.)

Library Bureau. (See Gale, Laburton A., assignor.)

Library Bureau. (See Ohnstrand, Enoch, assignor.)

Lillibridge, Curtis C., Hutchinson, Kans. Oil-burner. No. 1,391,641; Sept. 20; v. 290; p. 574.

Lindsey, Ernest E., San Francisco, Calif., assignor to Rake-Rite Oven Manufacturing Company. Baking-oven. No. 1,391,258; Sept. 20; v. 290; p. 497.

Lindsey, Ernest E., San Francisco, Calif., assignor to Bake-Rite Oven Manufacturing Company. Sectional baking-oven. No. 1,391,259; Sept. 20; v. 290; p. 497.

Lindstaedt, Otto R., Indianapolis, Ind. Display-rack for bed mattresses and springs. No. 1,391,484; Sept. 20; v. 290; p. 542.

Link-Belt Company. (See Rapp, Axel G. J., assignor.)

Little, Arthur L., and G. W. Verow, Brewer, Me., assignors to Eastern Manufacturing Company, Boston, Mass. Paper-feeding means for size-tubs. No. 1,390,997; Sept. 20; v. 290; p. 443.

Lockhart, George L., St. Paul, assignor to L. P. T. Specialty Company, Minneapolis, Minn. Gymnasium-light. No. 1,391,550; Sept. 20; v. 290; p. 556.

Loeffler, Joseph E., St. Louis, Mo. Lifting and swinging support for railway motor-cars. No. 1,391,330; Sept. 20; v. 290; p. 511.

Low, John W., assignor to National Carton Company, Joliet, Ill. Butter-wrapper. No. 1,391,551; Sept. 20; v. 290; p. 556.

Loyer, Joseph C., Detroit, Mich. Heating system. No. 1,391,394; Sept. 20; v. 290; p. 524.

Loynes, Owen H., Woodridge, N. J., and A. F. Rose, New Brighton, N. Y., assignors to American Telephone and Telegraph Company. Repeater cord-circuits. No. 1,391,552; Sept. 20; v. 290; p. 556.

Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe-heating device. No. 1,390,998; Sept. 20; v. 290; p. 443.

Lund, Thomas, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Apparatus for handling stain. No. 1,391,395; Sept. 20; v. 290; p. 524.

Lynch, John, and C. McGuire, Seattle, Wash. Stump-chopping machine. No. 1,391,131; Sept. 20; v. 290; p. 471.

McCarthy, Edward F., assignor to The Ramo Manufacturing Company, Chicago, Ill. Shock-absorber for automobiles. No. 1,391,553; Sept. 20; v. 290; p. 557.

McClellan, Marion E., McClellan, Minn. Toe-strap for skees. No. 1,391,260; Sept. 20; v. 290; p. 497.

McComb, David, and J., Stoughton, Wis. Automobile-tire chain. No. 1,391,261; Sept. 20; v. 290; p. 497.

McComb, John. (See McComb, David, and J.)

McCoy, James P. A., Milwaukee, Wis., assignor to Westinghouse Electric and Manufacturing Company. Molding composition. (Reissue.) No. 15,199; Sept. 20; v. 290; p. 577.

McDowell, Rollin, Portland, Oreg. Child's vehicle. No. 1,391,554; Sept. 20; v. 290; p. 557.

McFall, Loomis N., Denver, Colo. Grinding attachment for sewing-machines. No. 1,391,555; Sept. 20; v. 290; p. 557.

McGuire, Charles. (See Lynch, J., and McGuire.)

McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Slub-catcher. No. 1,391,331; Sept. 20; v. 290; p. 512.

McKee, Ralph H., New York, N. Y. Oxidizing gases. No. 1,391,332; Sept. 20; v. 290; p. 512.

McLain, Harry E. (See Broad, William, assignor.)

McLaughlin, William H., assignor to C. S. Chase, Hartford, Conn. Traction device. No. 1,391,262; Sept. 20; v. 290; p. 498.

McLaughlin, William H., assignor to C. S. Chase, Hartford, Conn. Traction device. No. 1,391,263; Sept. 20; v. 290; p. 498.

McManus, William F., Oklahoma, Okla. Game. No. 1,391,333; Sept. 20; v. 290; p. 512.

McMurtrie, Adnah, New York, N. Y. Bushing. No. 1,391,896; Sept. 20; v. 290; p. 825.

McNaughton, John, New York, N. Y. Mop. No. 1,391,132; Sept. 20; v. 290; p. 471.

Mader, Joseph, Philadelphia, Pa., assignor to S. L. Allen & Co., Inc. Agricultural implement. No. 1,391,264; Sept. 20; v. 290; p. 498.

Majchrowicz, Frank, Cleveland, Ohio. Automatic railway-gate. No. 1,391,397; Sept. 20; v. 290; p. 525.

Manfred, Marten, Santa Barbara, Calif. Suction-washer. No. 1,391,265; Sept. 20; v. 290; p. 498.

Mann, L., *et al.* (See Nye, Sherman G., assignor.)

Manning, Maxwell & Moore, Inc. (See Fickett, E. L., and Charushin, assignors.)

Manuel, Hermogenes, Cebu Cebu, Philippine Islands. Finger-pencil. No. 1,391,556; Sept. 20; v. 290; p. 557.

Marien, Charles A., St. Louis, Mo. Automobile-radiator. No. 1,391,485; Sept. 20; v. 290; p. 542.

Marien, Charles A., St. Louis, Mo. Automobile-radiator. No. 1,391,486; Sept. 20; v. 290; p. 542.

Marklein, Otto, Brooklyn, assignor to W. O. Shadbolt, New York, N. Y. Tail-gate for vehicles. No. 1,390,999; Sept. 20; v. 290; p. 443.

Martin, Louis C., Willoughby, Ohio. Mold-insert-feeding mechanism. No. 1,391,334; Sept. 20; v. 290; p. 512.

Matchette, Frank J., Milwaukee, Wis., assignor to The Servidor Company, Wilmington, Del. No. 1,391,133; Sept. 20; v. 290; p. 471.

Mathews, Walter D., Mariette, Mich. Piston-ring. No. 1,391,335; Sept. 20; v. 290; p. 512.

Matthews, Richard B., East Grinstead, England. Manufacture of books. No. 1,391,199; Sept. 20; v. 290; p. 484.

Matlevich, Joseph, Washington Park, Ill. Combination-cabinet. No. 1,391,487; Sept. 20; v. 290; p. 543.

Mayer, Gustav K., W. G. Andrews, and A. V. Coldby, Chicago, Ill. Beverage-making material and producing the same. No. 1,391,557; Sept. 20; v. 290; p. 557.

Maytag Company, The. (See Snyder, Howard F., assignor.)

Measuregraph Company, The. (See Turner, Douglas, assignor.)

Meier-Gaynor Mfg. Co. (See Edgecombe, Edward F., Jr., assignor.)

Meiners, August H., assignor of one-half to E. Paffrath, St. Louis, Mo. Reinforced-concrete manhole and sewer-inlet casing. No. 1,391,336; Sept. 20; v. 290; p. 513.

Meisser, Sarah A., *et al.* (See Best, William N., assignor.)

Meitner, Elemer, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Electrical transmission system. No. 1,391,652; Sept. 20; v. 290; p. 576.

Meitner, Elemer, New York, assignor to The Sperry Gyroscope Company, Brooklyn, N. Y. Shock-absorbing transmission mechanism. No. 1,391,653; Sept. 20; v. 290; p. 576.

Mentzer, Claude E., Des Moines, Iowa, assignor to The Eclipse Machine Company, Elmira, N. Y. Locking device for gear-shift levers. No. 1,391,200; Sept. 20; v. 290; p. 484.

Merrell, Irving S., assignor to Merrell-Soule Company, Syracuse, N. Y. Concentrated buttermilk. No. 1,391,642; Sept. 20; v. 290; p. 574.

Merrell-Soule Company. (See Merrell, Irving S., assignor.)

Meyer, Frans M., Amsterdam, Netherlands. Water-tube boiler. No. 1,391,558; Sept. 20; v. 290; p. 557.

Meyer, Vernon H., Cleveland, Ohio. Hydrometer. No. 1,391,000; Sept. 20; v. 290; p. 444.

Meyer, William C., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,391,398; Sept. 20; v. 290; p. 525.

Miesner, Martin D., Portland, Oreg. Combination table and bed. No. 1,391,559; Sept. 20; v. 290; p. 558.

Mikolasek, Venceslaus F., Lankin, N. D. Indicator for ignition and lighting systems. No. 1,391,560; Sept. 20; v. 290; p. 558.

Miller, Henry F., & Sons Piano Company. (See Hall, C. W., and Wheeler, assignors.)

Miller, Howard C., Toledo, Ohio. Paint measuring and filling machine. No. 1,391,488; Sept. 20; v. 290; p. 543.

Miller, John C., Covington, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Food product obtained from brewers' yeast. No. 1,391,561; Sept. 20; v. 290; p. 558.

Miller, John C., Covington, Ky., assignor to The Evaporating and Drying Machinery Company, Cincinnati, Ohio. Food product obtained from brewers' yeast. No. 1,391,562; Sept. 20; v. 290; p. 558.

Mills, Herbert S. (See Sandell, Henry K., assignor.)

Mills, William J., Hazleton, Pa. Linoleum-cutter. No. 1,391,201; Sept. 20; v. 290; p. 485.

Miner, William H. (See Geiger, William A., assignor.)

Miner, William H. (See O'Connor, John F., assignor.)

Miner, William H., Chazy, N. Y. Box-car end. No. 1,391,066; Sept. 20; v. 290; p. 457.

Miner, William H., Chazy, N. Y., and J. F. O'Connor, Chicago, Ill.; said O'Connor assignor to said Miner. Railway draft-rigging. No. 1,391,067; Sept. 20; v. 290; p. 458.

Minneapolis Heat Regulator Company. (See Denison, Frederick S., assignor.)

Minney, Arthur W., Stockton, Calif. Wrench. No. 1,391,337; Sept. 20; v. 290; p. 513.

Moline Plow Company. (See Irving, John L., assignor.)

Monarch Refillable Fuse Co. (See Ellison, Edward H., assignor.)

Monin, Henri A., St. Denis, France. Abdominal belt. No. 1,391,563; Sept. 20; v. 290; p. 558.

Moore Electric Corporation. (See Beach, Chester H., assignor.)

Moore, John J., South Charleston, Ohio. Signpost. No. 1,391,001; Sept. 20; v. 290; p. 444.

Moore, William E., assignor to W. J. Hartwig, Detroit, Mich. Disk-stacking device. No. 1,391,202; Sept. 20; v. 290; p. 485.

Morgan, Henry W., and J. O. Whitener, Greenville, S. C. Picker-stick. No. 1,391,266; Sept. 20; v. 290; p. 498.

Morin, Frank Z., Sanford, Me. Fishing-signal. No. 1,391,002; Sept. 20; v. 290; p. 444.

Morris, Arthur H., Newark, N. J. Adjustable tool and head. No. 1,391,564; Sept. 20; v. 290; p. 559.

Morse, Albert W., Forest Hills, assignor to The Anthony Company, Long Island City, N. Y. Burner-support. No. 1,391,338; Sept. 20; v. 290; p. 513.

Morse Instrument Company Inc. (See Morse, Robert V., assignor.)

Morse, Lawrence H. (See Tracy, J. J., and Morse.)

Morse, Robert V., assignor to Morse Instrument Company, Inc., Ithaca, N. Y. Electric fuse-setter controller for anti-aircraft guns. No. 1,391,134; Sept. 20; v. 290; p. 471.

Morson, Walter R., and E. B. Jarvis, Toronto, Ontario, Canada. Necktie-support. No. 1,391,339; Sept. 20; v. 290; p. 513.

Moss, Benjamin L., Detroit, Mich. Fuse. No. 1,391,399; Sept. 20; v. 290; p. 525.

Mueller, George E., Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Semi-automatic telephone system. No. 1,391,135; Sept. 20; v. 290; p. 472.

Mueller, George E., Aurora, Ill., assignor, by mesne assignments, to Kellogg Switchboard & Supply Company. Telephone-exchange system. No. 1,391,136; Sept. 20; v. 290; p. 472.

Mullally, Reginald. (See Buckley, J. A., and Nadeau, assignors.)

Mulligan, Joseph O., McKees Rocks, Pa. Wire-splicer. No. 1,391,137; Sept. 20; v. 290; p. 472.

Multi-Print System Co. (See Wyrick, Clayton E., assignor.)

Murdock, William J., Clinton, Ind. Stop for talking-machines. No. 1,391,565; Sept. 20; v. 290; p. 559.

Murray, George C., Chicago, Ill. Draft-gear yoke. No. 1,391,203; Sept. 20; v. 290; p. 485.

Musselman, Frank W., Kansas City, Mo. Combined crib and wardrobe. No. 1,391,566; Sept. 20; v. 290; p. 559.

Muzzy, William H., Chicago, Ill. Fuel-feeding system. No. 1,391,204; Sept. 20; v. 290; p. 485.

Nadal, Jose M., Humacao, Porto Rico. Wall construction. No. 1,391,567; Sept. 20; v. 290; p. 559.

Nadeau, Joseph. (See Buckley, J. A., and Nadeau.)

National Carton Company. (See Low, John W., assignor.)

National Cash Register Company, The. (See Lee, Charles L., assignor.)

Nawracaj, Wojciech, and W. Jarosz, Hamtramck, Mich. Animal and bird trap. No. 1,391,489; Sept. 30; v. 290; p. 543.

Nelson, John, Glasgow, Scotland. Cracking of hydrocarbon oils and the like. No. 1,391,568; Sept. 30; v. 290; p. 559.

Nelson, John, Glasgow, Scotland. Cracking of hydrocarbon oils and the like. No. 1,391,569; Sept. 20; v. 290; p. 560.

Nelson, Nels S., and A. Boode, Detroit, Mich. Trap. No. 1,391,570; Sept. 20; v. 290; p. 560.

Nelson, Norman H. A., Flint, Mich. Fountain-pen. No. 1,391,267; Sept. 20; v. 290; p. 499.

Nelson, Ralph M., Sellersville, Pa., assignor to United States Gauge Company, New York, N. Y. Pressure-gage. No. 1,391,138; Sept. 20; v. 290; p. 472.

Neville, John J., Clifton Forge, Va. Ore-separator. No. 1,391,400; Sept. 20; v. 290; p. 525.

Newhouse, Cecil J., Mounds, Okla. Washing-machine. No. 1,391,571; Sept. 20; v. 290; p. 560.

Newman, George, San Francisco, Calif. Shirt-cuff. No. 1,391,205; Sept. 20; v. 290; p. 486.

Nichols, James C., Berwyn, and E. Ryder, Argo, Ill. Clamping device. No. 1,391,401; Sept. 20; v. 290; p. 526.

Nickel, Thomas B., McCracken, Kans. Pump-operating mechanism. No. 1,391,572; Sept. 20; v. 290; p. 560.

Nix, Edward A., Montreal, Quebec, Canada. Weather-proofing means for window-sashes. No. 1,391,003; Sept. 20; v. 290; p. 444.

Nixon, Leroy, Murray Hill, N. J. Milking apparatus. No. 1,391,573; Sept. 20; v. 290; p. 560.

Nye, Sherman G., assignor of one-half to D. B. Simon and one-fourth to I. Mann, Denver, Colo. Telegraphic indicator. No. 1,391,206; Sept. 20; v. 290; p. 486.

Nygaard, Johan O., Christiania, Norway. Horseshoe-calk. No. 1,391,490; Sept. 20; v. 290; p. 543.

Oberg, Carl L., *et al.* (See Arnesen, Charlotte, assignor.)

Oberg, Ingeborg A., *et al.* (See Arnesen, Charlotte, assignor.)

O'Brien, Francis J. T., Los Angeles, Calif. Griddle. No. 1,391,268; Sept. 20; v. 290; p. 499.

O'Brien, Francis J. T., Los Angeles, Calif. Griddle. No. 1,391,269; Sept. 20; v. 290; p. 499.

O'Brien, Thomas F. I., Brooklyn, N. Y. Timepiece-movement. No. 1,391,340; Sept. 20; v. 290; p. 513.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Railway draft-rigging. No. 1,391,068; Sept. 20; v. 290; p. 458.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N., Y. Railway draft-rigging. No. 1,391,069; Sept. 20; v. 290; p. 458.

O'Connor, John F., Chicago, Ill., assignor to W. H. Miner, Chazy, N. Y. Friction shock-absorbing mechanism. No. 1,391,070; Sept. 20; v. 290; p. 458.

O'Connor, John F. (See Miner, W. H., and O'Connor.)

O'Daniel, Uriah V., Greencastle, Ind. Automobile-radiator heater. No. 1,391,270; Sept. 20; v. 29; p. 499.

O'Donnell, Edward L., St. Louis, Mo. Music-case. No. 1,391,491; Sept. 20; v. 290; p. 543.

Ohanian, Garabed, assignor of one-half to H. Chekenian, Paterson, N. J. Hair-brush. No. 1,391,207; Sept. 20; v. 290; p. 486.

Ohnstrand, Enoch, Mohawk, N. Y., assignor to Library Bureau, Cambridge, Mass. Extension drawer-slide. No. 1,391,004; Sept. 20; v. 290; p. 444.

Oldroyd, Cyrus S., Cincinnati, Ohio. Railway-track and rail for the same. No. 1,391,574; Sept. 20; v. 290; p. 561.

Olinger, Thomas. (See Somers, R. B., and Olinger.)

Opie, John D. (See Green, S. H., and Opie.)

Oprisak, Andrew, and J. Prokopowicz, Detroit, Mich. Safety-stop for elevators. No. 1,391,575; Sept. 20; v. 290; p. 561.

Ormes, William R. Waltham, Mass. Inker for typewriter-ribbons. No. 1,391,139; Sept. 20; v. 290; p. 473.

Osswald, Herman, Richmond Hill, N. Y. Automatic threading-machine. No. 1,391,492; Sept. 20; v. 290; p. 544.

Pachko, Gregory, Detroit, Mich. Safety-envelop. No 1,391,493; Sept. 20; v. 290; p. 544.

Packard Motor Car Company. (See Tibbetts, Milton, assignor.)

Paffrath, Ernst. (See Meiners, August H., assignor.)

Palmer, Charles G., Newark, N. J. Door-lock. No. 1,391,005; Sept. 20; v. 290; p. 445.

Palmer, David, Chicago, Ill. Cigarette-holder. No. 1,391,071; Sept. 20; v. 290; p. 458.

Palmers Limited. (See Fairbairn, Francis A., assignor.)

Paquette, Herman A., Chicago, Ill. Burner. No. 1,391,494; Sept. 20; v. 290; p. 544.

Park, Leonorr L., and W. W. Byles, St. Louis, Mo. Rim expanding and contracting tool. No. 1,391,526; Sept. 20; v. 290; p. 551.

Parker, Ralsemond D., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Half-duplex alternating-current telegraph system. No. 1,391,006; Sept. 20; v. 290; p. 445.

Parsons, Earl, Philadelphia, Pa. Bracket. No. 1,391,495; Sept. 20; v. 290; p. 544.

Partington, Charles, assignor to The Cincinnati Frog & Switch Company, Cincinnati, Ohio. Switch-stand. No. 1,391,208; Sept. 20; v. 290; p. 486.

Pasinski, Walter J., assignor to Burroughs Adding Machine Company, Detroit, Mich. Adding-machine. No. 1,391,072; Sept. 20; v. 290; p. 459.

Paulsen, Thomas R., Los Angeles, Calif. Track-link for tractors. No. 1,391,140; Sept. 20; v. 290; p. 473.

Paulson, Walter H., assignor to H. D. Lathrop, Chicago, Ill. Can-washing machine. No. 1,391,141; Sept. 20; v. 290; p. 473.

Paxfiat Barrel & Crate Corporation. (See LeFevre, G. A., and Hutchinson, assignors.)

Payne & Sons (Otley) Limited, *et al.* (See Payne, S., and Stott, assignors.)

Payne, Sydney, and E. Stott, assignors to Payne & Sons (Otley) Limited, and William Dawson & Sons (Otley) Limited, Otley, England. Means for feeding sheets of paper. No. 1,391,271; Sept. 20; v. 290; p. 499.

Payton, Lee, *et al.* (See Cranmer, John J., assignor.)

Pedersen, John D., Jackson, Wyo. Firearm. No. 1,391,496; Sept. 20; v. 290; p. 544.

Pedersen, John D., Jackson, Wyo. Firearm. No. 1,391,497; Sept. 20; v. 290; p. 545.

Pedersen, John D., Jackson, Wyo. Firearm. No. 1,391,498; Sept. 20; v. 290; p. 545.

Pedersen, John D., Jackson, Wyo. Firearm. No. 1,391,499; Sept. 20; v. 290; p. 545.

Peirce, Charles L., Jr., Pittsburgh, Pa. Key-holder. (Reissue.) No. 15,200; Sept. 20; v. 290; p. 577.

Pemberton-Billing, Noel, Hertford, England. Motion-picture apparatus. No. 1,391,341; Sept. 20; v. 290; p. 514.

Penick & Ford. (See Lenders, Adolph W. H., assignor.)

Perkins Corporation. (See Williams, Edward H., assignor.)

Permanent Product Company. (See Jones, Harry B., assignor.)

Perrin, Lucien E. T., Paris, France. Insulating unit for electric suspension-chains. No. 1,391,576; Sept. 20; v. 290; p. 561.

Persson, Paul, assignor to Sanitary Garbage Box Company, Chicago, Ill. Door-hinge. No. 1,391,007; Sept. 20; v. 290; p. 445.

Peters, Arthur H., Fort Wayne, Ind. Gearing for washing-machines. No. 1,391,272; Sept. 20; v. 290; p. 499.

Peters, Gustav H., and R. E. Shoars, Milwaukee, Wis. Ash-sifter. No. 1,391,073; Sept. 20; v. 290; p. 459.

Phelan, Earl T., Jackson, Mich. Cushion-rim. No. 1,391,074; Sept. 20; v. 290; p. 459.

Phelps, George B., *et al.* (See Best, William N., assignor.)

Phillippi, Frank A., assignor of one-half to J. R. Kinckiner, Pottstown, Pa. Water-cooler. No. 1,391,075; Sept. 20; v. 290; p. 459.

Phillips, Frank, Fort Crook, Nebr. Trap. No. 1,391,577; Sept. 20; v. 290; p. 561.

Phillips, William, Chicago, Ill. Automobile-radiator. No. 1,391,500; Sept. 20; v. 290; p. 545.

Photometric Products Corporation. (See Ladd, Lester L., assignor.)

Pollak, Abraham, assignor to S. Kanner, New York, N. Y. Lead-pencil. No. 1,391,273; Sept. 20; v. 290; p. 500.

Poole, Arthur F., Kenilworth, Ill., assignor, by mesne assignments, to Remington Accounting Machine Corporation, New York, N. Y. Lock for totalisers. No. 1,391,142; Sept. 20; v. 290; p. 473.

Posnick, George, Springfield, Mass. Shaving-gage. No. 1,391,274; Sept. 20; v. 290; p. 500.

Potter, Charles H., *et al.* (See Service, William F., assignor.)

Powell, John R., Cleveland, Mont. Gate-fastener. No. 1,391,578; Sept. 20; v. 290; p. 562.

Powers, James, New York, N. Y. Wheel-chain for vehicles. No. 1,391,402; Sept. 20; v. 290; p. 526.

Powers, William H., Eugene, Oreg. Shoe-shining machine. No. 1,391,076; Sept. 20; v. 290; p. 459.

Pratt Read Player Action Company, The. (See Fisher, Stanley L., assignor.)

Preston, Joseph W., Jr., *et al.* (See Cranmer, John J., assignor.)

Proescher, Frederick, Sioux City, Iowa. Artificial cultivation of broncho-pneumonia virus for use in the treatment of swine. No. 1,391,579; Sept. 20; v. 290; p. 562.

Prokopowicz, John. (See Oprisak, A., and Prokopowicz.)

Pulliam, Oswalt S., New York, N. Y. Antiskid device. No. 1,391,342; Sept. 20; v. 290; p. 514.

Pulliam, Oswald S., New York, N. Y. Transmission. No. 1,391,343; Sept. 20; v. 290; p. 514.

Quaries, Charles H., assignor, by mesne assignments, to American Automatic Train Control Corporation, Charlottesville, Va. Support for contact-shoes. No. 1,391,502; Sept. 20; v. 290; p. 546.

Quigley Furnace Specialties Co. (See Renkin, William O., assignor.)

Ragonot, Edmond L. M. (See Colas, J. E., and Ragonot.)

Raley, Walter J., Milwaukee, Wis. Device for repairing inner tubes. No. 1,391,209; Sept. 20; v. 290; p. 486.

Ramo Manufacturing Company, The. (See McCarthy, Edward F., assignor.)

Rapp, Axel G. J., assignor to Link-Belt Company, Chicago, Ill. Hutch-valve. No. 1,391,408; Sept. 20; v. 290; p. 526.

Rathbun, Ransom E., Sioux City, Iowa. Vehicle-wheel. No. 1,391,143; Sept. 20; v. 290; p. 473.

Readey, John M., St. Louis, Mo. Air-brake apparatus. No. 1,391,404; Sept. 20; v. 290; p. 526.

Reed, Asbury, Los Angeles, Calif. Auxiliary windshield. No. 1,391,580; Sept. 20; v. 290; p. 562.

Refrigerating Specialties Company. (See Hansen, Charles C., assignor.)

Register, James W., Jasper, Fla. Pump. No. 1,391,503; Sept. 20; v. 290; p. 546.

Reliable Match Company, The. (See Warner, Noah L., assignor.)

Remington Accounting Machine Corporation. (See Poole, Arthur F., assignor.)

Remington Typewriter Company. (See Woodward, Oscar, assignor.)

Renkin, William O., Oradell, N. J., assignor to Quigley Furnace Specialties Co., Inc. Telltale device for closed bins. No. 1,391,504; Sept. 20; v. 290; p. 546.

Reynolds, William C., Remus, Mich. Seed-potato cutter. No. 1,391,505; Sept. 20; v. 290; p. 546.

Rhonemus, Clarence A., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing machine. No. 1,391,405; Sept. 20; v. 290; p. 526.

Rhonemus, Clarence A., Charleston, W. Va., assignor to The Libbey-Owens Sheet Glass Company, Toledo, Ohio. Sheet-glass-drawing apparatus. No. 1,391,406; Sept. 20; v. 290; p. 526.

Riche, J. P. (See Tucker, Arthur W., assignor.)

Richmond, Henry E., Bennington, Vt. Child's table. No. 1,391,006; Sept. 20; v. 290; p. 446.

Richmond Radiator Company. (See Haskins, Elbert O., assignor.)

Richter, Willy, Olmsted, Ill. Fluid-gage. No. 1,391,077; Sept. 20; v. 290; p. 460.

Ricketts, Joseph W., Detroit, Mich. Pneumatic wheel. No. 1,391,407; Sept. 20; v. 290; p. 527.

Rider, William J., Horley, England. Seat. No. 1,391,275; Sept. 20; v. 290; p. 500.

Riley, John H., Menominee, Mich. Ice-tractor. No. 1,391,506; Sept. 20; v. 290; p. 547.

Riser, George C., Jr., McGill, Nev. Aeration-cell. No. 1,391,078; Sept. 20; v. 290; p. 460.

Riveroll, Elfego, Los Angeles, Calif. Production of iron and steel. No. 1,391,507; Sept. 20; v. 290; p. 547.

Robbins, Sam W., Bristol, England. Wringer for mops, floor-cloths, and the like. No. 1,391,408; Sept. 20; v. 290; p. 527.

Robertson, Frank E., assignor to The P. A. Geier Company, Cleveland, Ohio. Washing-machine attachment. No. 1,391,410; Sept. 20; v. 290; p. 527.

Roberts, Frederic, Accrington, assignor of one-half to The Calico Printers' Association, Limited, Manchester, England. Machine for washing, saturating, and similarly treating textile fabrics and yarns in rope form. No. 1,391,276; Sept. 20; v. 290; p. 500.

Roberts, George E., Schenectady, N. Y. Automatic wrench. No. 1,391,581; Sept. 20; v. 290; p. 562.

Roberts, Henry T., New York, N. Y. Saddle. No. 1,391,409; Sept. 20; v. 290; p. 527.

Robertson, James, Jr., Weehawken, N. J. Repair-patch for rubber footwear. (Reissue.) No. 15,201; Sept. 20; v. 290; p. 577.

Robinson, Ralph H., Jamestown, N. Y. Oil-cup. No. 1,391,643; Sept. 20; v. 290; p. 574.

Roces, Avelino F., Manzanillo, Cuba. Hoisting apparatus. No. 1,391,411; Sept. 20; v. 290; p. 527.

Roche, James. (See Councel, William, assignor.)

Rogers, Samuel L. (See Bried, Julien A., assignor.)

Rollerson, Alexander H., Plainfield, N. J. Ignition attachment for torches or the like. No. 1,391,582; Sept. 20; v. 290; p. 562.

Roosa, Frank A., Orange township, Blackhawk county, Iowa, assignor of one-half to J. T. Zeidler, St. Joseph, Mo. Mold for concrete blocks. No. 1,391,508; Sept. 20; v. 290; p. 547.

Ropiak, John G., Chicago, Ill. Control-glove. No. 1,391,210; Sept. 20; v. 290; p. 486.

Rose, Arthur F. (See Loynes, O. H., and Rose.)

Roth, George F., Des Moines, Iowa. Auxiliary tread for pneumatic tires. No. 1,391,412; Sept. 20; v. 290; p. 528.

Rotinoff, Alexander G., London, England. Pile-driving apparatus. No. 1,391,344; Sept. 20; v. 290; p. 514.

Rouanet, Louis, Ivry Port, assignor to Compagnie d'Applications Mecaniques, Paris, France. Gaging apparatus for thrust-bearing rings. No. 1,391,509; Sept. 20; v. 290; p. 547.

Royal Worcester Corset Co. (See Lecoutre, Auguste J., assignor.)

Rubin, Adolph, assignor to Sieber Products Mfg. Co., St. Louis, Mo. Loose-leaf binder. No. 1,391,079; Sept. 20; v. 290; p. 460.

Ruhoff, Otto E., assignor to French Battery & Carbon Co., Madison, Wis. Dry-cell material and manufacture. No. 1,391,211; Sept. 20; v. 290; p. 487.

Rundell, Raymond R., assignor of one-fourth to G. C. Haesloop, Elmira, N. Y. Means for sharpening pencil-pointers. No. 1,391,080; Sept. 20; v. 290; p. 460.

Runstetler, Norval, Seattle, Wash. Non-skid safety device. No. 1,391,413; Sept. 20; v. 290; p. 528.

Rushton, Edwin E., Los Angeles, Calif. Hydrocarbon and gas burner. No. 1,391,277; Sept. 20; v. 290; p. 500.

Russell, Lewis J., Oilton, Okla. Tension for steering-knuckles. No. 1,391,081; Sept. 20; v. 290; p. 460.

Russell, Richard E., Perrysburg, Ohio. Fuel-mixture controller. No. 1,391,144; Sept. 20; v. 290; p. 474.

Rust, John W. (See Larsen, Stella C., assignor.)

Ryder, Elmer. (See Nichols, J. C., and Ryder.)

Sachs, Solomon, Washington, D. C. Display device. No. 1,391,583; Sept. 20; v. 290; p. 562.

Safety Release Clevis Co. (See Hulsebos, A. B., and Den Besten, assignors.)

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Reproducing sound-vibrations. No. 1,391,414; Sept. 20; v. 290; p. 528.

Sanitary Garbage Box Company. (See Persson, Paul, assignor.)

Sargent & Company. (See Voight, Henry G., assignor.)

Sarmas, Saul, Philadelphia, Pa. Gasolene-valve lock. No. 1,391,345; Sept. 20; v. 290; p. 514.

Schaller, William F., San Francisco, Calif. Doughnut forming and cooking machine. No. 1,391,212; Sept. 20; v. 290; p. 487.

Scheel, Rudolph, Dixon, Calif. Resilient wheel. No. 1,391,278; Sept. 20; v. 290; p. 501.

Schjelderup, Gunnar, Christiansand, Norway. Apparatus for drying material containing liquid. No. 1,391,510; Sept. 20; v. 290; p. 548.

Schneible, Elsie K. (See Schneible, Ivan M., assignor.)

Schneible, Ivan M., assignor to E. K. Schneible, Greenwich, N. Y. Sterilizer. No. 1,391,213; Sept. 20; v. 290; p. 487.

Schneider & Cie. (See Schneider, Eugène, assignor.)

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Process and apparatus for the manufacutre of metal tubes by the self-hooping process. No. 1,391,009; Sept. 20; v. 290; p. 446.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Apparatus for the manufacture of metal tubes by the self-hooping process. No. 1,391,010; Sept. 20; v. 290; p. 446.

Schneider, Eugène, assignor to Schneider & Cie., Paris, France. Tractor having two pairs of driving-wheels. No. 1,391,011; Sept. 20; v. 290; p. 446.

Schneider, William G., St. Louis, Mo. Automobile-headlight glass. No. 1,391,511; Sept. 20; v. 290; p. 548.

Scholes, William, Philadelphia, Pa. Twisting-machine. No. 1,391,512; Sept. 20; v. 290; p. 548.

Schonitzer, Rudolph L., Detroit, Mich., assignor of one-third to J. K. Williams, Springfield, Ohio. Field-stove. No. 1,391,415; Sept. 20; v. 290; p. 528.

Schroeder, Charles. (See Taplin, William M., assignor.)

Schroeder, Otto F., Santa Ana, Calif. Tire-alarm. No. 1,391,513; Sept. 20; v. 290; p. 548.

Schulder, Fred, assignor to United Brass Manufacturing Company, Cleveland, Ohio. Cock or faucet. No. 1,391,012; Sept. 20; v. 290; p. 446.

Schwager, Joseph W., Utica, Minn. Mixing-machine. No. 1,391,013; Sept. 20; v. 290; p. 447.

Schwartz, Edward H., assignor to Edward H. Schwartz, Inc., Chicago, Ill. Burner. No. 1,391,416; Sept. 20; v. 290; p. 529.

Schwarts, Edward H., Inc. (See Schwartz, Edward H., assignor.)

Schwarzer, Joseph K., Syracuse, N. Y. Cleat attachment for football-shoes. No. 1,391,346; Sept. 20; v. 290; p. 515.

Scott, George W., Cleveland, Ohio. Curtain-support. No. 1,391,418; Sept. 20; v. 290; p. 529.

Scott, George W., Cleveland, Ohio. Curtain-support for automobiles. No. 1,391,417; Sept. 20; v. 290; p. 529.

Sechler, William N., Fort Scott, Kans. Arch-support. No. 1,391,584; Sept. 20; v. 290; p. 563.

Seignol, Edouard, Neuilly, France. Indicating device. No. 1,391,279; Sept. 20; v. 290; p. 501.

Service, William F., Poughkeepsie, assignor, by mesne assignments, to C. Hardy and C. H. Potter, New York, N. Y. Timer. No. 1,391,419; Sept. 20; v. 290; p. 529.

Servidor Company, The. (See Matchette, Frank J., assignor.)

Shadbolt, William O. (See Marklein, Otto, assignor.)

Shehan, Thomas, Cleveland, Ohio. Screw-thread-cutting device. No. 1,391,514; Sept. 20; v. 290; p. 549.

Sheldon, Noble W., Los Angeles, Calif. Gasifying device. No. 1,391,280; Sept. 20; v. 290; p. 501.

Sheringham, George H., London, England. Artificial illumination. No. 1,391,585; Sept. 20; v. 290; p. 563.

Shoars, Raymond E. (See Peters, G. H., and Shoars.)

Sieber Products Mfg. Co. (See Rubin, Adolph, assignor.)

Simmen, Paul J., Buffalo, N. Y. Speed-control device for moving vehicles. No. 1,391,420; Sept. 20; v. 290; p. 530.

Simon, D. B., *et al.* (See Nye, Sherman G., assignor.)

Simpson, John T., assignor to Economy Sales Company, Chicago, Ill. Furnace-grate. No. 1,391,014; Sept. 20; v. 290; p. 447.

Sims, Frederick L. H., Toronto, Ontario, Canada. Clamp. No. 1,391,015; Sept. 20; v. 290; p. 447.

Sinclair, Paul, South Williamsport, Pa. Machine for making mantles. No. 1,391,515; Sept. 20; v. 290; p. 549.

Sinfield, Edward, and W. H. Goldfinch, assignors of one-third to A. W. Capener, London, England. Horseshoe-pad. No. 1,391,655; Sept. 20; v. 290; p. 577.

Slider, Harold R. (See Slider, W. T. and H. R.)

Slider, William T. and H. R., Indianapolis, Ind. Micrometer. No. 1,391,016; Sept. 20; v. 290; p. 447.

Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Electric translator. No. 1,391,586; Sept. 20; v. 290; p. 563.

Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Subscriber-operated telephone system. No. 1,391,587; Sept. 20; v. 290; p. 563.

Slough, Frank M., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Telephone-service system. No. 1,391,588; Sept. 20; v. 290; p. 563.

Smetana, Frank, Chicago, Ill. Flour-sifter. No. 1,391,145; Sept. 20; v. 290; p. 474.

Smith, Joseph J. (See Bevelle, J. C., and Smith.)

Smythe, Mary B. (See Smythe, William H., assignor.)

Smythe, William H., assignor to M. B. Smythe, Winthrop, Mass., Stationery-cabinet. No. 1,391,082; Sept. 20; v. 290; p. 461.

Snell, Joseph E., Newark, N. J., assignor to Henry Steers Inc., New York, N. Y. Pier construction. No. 1,391,516; Sept. 20; v. 290; p. 549.

Snyder, George C., New York, N. Y. Coating device. No. 1,391,281; Sept. 20; v. 290; p. 501.

Snyder, Howard F., assignor to The Maytag Company, Newton, Iowa. Washing-machine. No. 1,391,214; Sept. 20; v. 290; p. 487.

Sohn, Louis H., Huron, S. D. Fan. No. 1,391,517; Sept. 20; v. 290; p. 549.

Sohnle, Friedrich, Newark, N. J. Brush-holder. No. 1,391,017; Sept. 20; v. 290; p. 447.

Sohnle, Friedrich, Newark, N. J. Brush-holder. No. 1,391,018; Sept. 20; v. 290; p. 448.

Sokolowski, Stanley, and J. Forgiel, Taunton, Mass. Non-sinkable ship. No. 1,391,421; Sept. 20; v. 290; p. 530.

Solomon, Edgar J., assignor to Avery Company, Peoria, Ill. Automatic releasing-coupling. No. 1,391,422; Sept. 20; v. 290; p. 530.

Sommermeyer, Frank B., Spring Lake, Mich. Synchronizing mechanism. No. 1,391,423; Sept. 20; v. 290; p. 530.

Somers, Roy B., Zeeland, and T. Olinger, assignors to Federal Stamping Company, Holland, Mich. Spring-oiler. No. 1,391,518; Sept. 20; v. 290; p. 549.

Sorenson, Henry A., Harvey, N. D. Straw-spreader. No. 1,391,019; Sept. 20; v. 290; p. 448.

Spartan Needle Company. (See Wilcomb, J. F., assignor.)

Speer, James B., Trappe, Md. High-carbon steel-iron alloy. No. 1,391,215; Sept. 20; v. 290; p. 487.

Spencer, Thomas E., Wetaskiwin, Alberta, Canada. Mousetrap. No. 1,391,589; Sept. 20; v. 290; p. 564.
Spengler, Edward E., Chicago, Ill. Ticket-machine. No. 1,391,424; Sept. 20; v. 290; p. 530.
Sperry Gyroscope Company, The. (See Meitner, Elemer, assignor.)
Spies, Margaret S., *et al.* (See Best, William N., assignor.)
Spiro, Charles, assignor to Gourland Typewriter Corporation, New York, N. Y. Typebar-action. No. 1,391,020; Sept. 20; v. 290; p. 448.
Sprinkle, Lake H., Brooklyn, and M. Greenman, New York, N. Y. Feed-bag for horses. No. 1,391,021; Sept. 20; v. 290; p. 448.
Stalker, Harry O. (See Edwards, W. E., and Stalker.)
Stammer, Harrmann, Bartlesville, Okla. Clothespin. No. 1,391,590; Sept. 20; v. 290; p. 564.
Stanfa, Joseph I., Erie, Pa. Float-operated circuit-closer. No. 1,391,347; Sept. 20; v. 290; p. 515.
Steel Products Company, The. (See Budrow, Edward H., assignor.)
Steers, Henry, Inc. (See Snell, Joseph E., assignor.)
Steinert, Rudolph, New Haven, Conn. Phonograph-needle and resonator therefor. No. 1,391,425; Sept. 20; v. 290; p. 531.
Stephens, Charles Z., Richmond, Va., assignor, by mesne assignments, to American Automatic Train Control Corporation. System for automatically controlling the movement of trains. No. 1,391,519; Sept. 20; v. 290; p. 550.
Stephens, Phil A., St. Louis, Mo. Fountain-brush. No. 1,391,282; Sept. 20; v. 290; p. 501.
Stevens, Henry V., Emporia, Kans. Draft-regulator. No. 1,391,348; Sept. 20; v. 290; p. 515.
Stevens, Joseph B., assignor of one-half to J. G. Foster, Six Mile Run, Pa. Electric indicator and alarm. No. 1,391,591; Sept. 20; v. 290; p. 564.
Stewart, Alexander W., Glasgow, Scotland. System of ventilation. No. 1,391,216; Sept. 20; v. 290; p. 488.
Stewart, Alexander W., Glasgow, Scotland. System of ventilation. No. 1,391,217; Sept. 20; v. 290; p. 488.
Stewart-Warner Speedometer Corporation. (See Whittington, Frederick G., assignor.)
Stewart, William C., Swampscott, Mass., assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Machine for preparing soles. No. 1,391,426; Sept. 20; v. 290; p. 531.
Stich, Charles F., assignor to The Johns Machine and Stamping Works Company, Cleveland, Ohio. Wagon. No. 1,391,083; Sept. 20; v. 290; p. 461.
Stone, S. P., Co., The. (See Killits, Morris J., assignor.)
Stone, William H., Port Angeles, Wash. Air-cooler. No. 1,391,592; Sept. 20; v. 290; p. 564.
Storck, August C., St. Louis, Mo. Liquid-fuel burner. No. 1,391,022; Sept. 20; v. 290; p. 448.
Stott, Elkanah. (See Payne, S., and Stott.)
Stromberg-Carlson Telephone Manufacturing Company, The. (See Slough, Frank M., assignor.)
Suderman, Albert G., River Rouge, Mich. Corn-holder. No. 1,391,283; Sept. 20; v. 290; p. 502.
Sulzberger, Nathan, New York, N. Y. Cigarette. No. 1,391,427; Sept. 20; v. 290; p. 531.
Sutz, Eli A., Oakland, Calif. Traffic-signal. No. 1,391,284; Sept. 20; v. 290; p. 502.
Sweeting, Claude C., Chadwell Heath, England. Plow. No. 1,391,593; Sept. 20; v. 290; p. 564.
Swires, James D., assignor of one-half to A. Harris, Detroit, Mich. Fastener. No. 1,391,218; Sept. 20; v. 290; p. 488.
Sykes, George, Penryn, Calif. Article of manufacture. No. 1,391,428; Sept. 20; v. 290; p. 531.
Szucs, Stephen, assignor of one-third to A. Dudas, Homestead, Pa. Agricultural implement. No. 1,391,023; Sept. 20; v. 290; p. 448.
Takamine, Jokichi, Jr. (See Takamine, Jokichi, and J., Jr.)
Takamine, Jokichi, New York, N. Y., and J. Takamine, Jr., Clifton, N. J. Enzymic substance and making the same. No. 1,391,219; Sept. 20; v. 290; p. 488.
Taplin, William M., assignor of one-half to C. Schroeder, St. Louis, Mo. Sash-fastener. No. 1,391,429; Sept. 20; v. 290; p. 531.
Tatton, Job, North Bay, Ontario, Canada. Jack. No. 1,391,594; Sept. 20; v. 290; p. 565.
Taylor, Milton C., Chicago, Ill., assignor, by mesne assignments, to Wahl Company, Wilmington, Del. Fountain-pen. No. 1,391,430; Sept. 20; v. 290; p. 532.
Thebaud, John E., assignor to S. Johnstone & Company, Inc., Buffalo, N. Y. Cushioned vehicle-wheel. No. 1,391,024; Sept. 20; v. 290; p. 449.
Thermic Engineering Co. (See Lennig, Edmund B., assignor.)
Thomas, Arvine N., Canton, Ohio. File-cabinet follower. No. 1,391,595; Sept. 20; v. 290; p. 565.
Thompson, George, Grand Rapids, Mich. Car-door. No. 1,391,520; Sept. 20; v. 290; p. 550.
Threlkeld, Rosco S. (See Threlkeld, Stephen A., assignor.)
Threlkeld, Stephen A., assignor to R. S. Threlkeld, Hutchinson, Kans. Vehicle-spring. No. 1,391,644; Sept. 20; v. 290; p. 574.
Thrift Garter Co. Inc. (See Burt, James H., assignor.)
Tibbetts, Milton, assignor to Packard Motor Car Company, Detroit, Mich. Indicator mechanism. No. 1,391,146; Sept. 20; v. 290; p. 474.
Tolton, Dolphus M., Pomona, Calif. Display-panel. No. 1,391,349; Sept. 20; v. 290; p. 515.
Tracy, James J., and L. H. Morse, Cleveland, Ohio; said Morse assignor to said Tracy. Carbureter. No. 1,391,025; Sept. 20; v. 290; p. 449.
Trenton Potteries Company. (See Hinsdale, Winfield E., assignor.)
Truesdell, Hobart G., and M. H. Van Wormer, Suffield, Conn. Infant's table. No. 1,391,650; Sept. 20; v. 290; p. 576.
Trumbull Electric Manufacturing Co., The. (See Getchell, Benjamin E., assignor.)
Tucker, Arthur W., Tulsa, Okla., assignor of one-half to J. P. Riche, Kansas City, Mo. Steam wall-paper remover. No. 1,391,350; Sept. 20; v. 290; p. 515.
Turck, Joseph A. V., Wilmette, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Calculating-machine. No. 1,391,220; Sept. 20; v. 290; p. 488.
Turk, Joseph, Manufacturing Co., *et al.* (See Basile, Joseph, assignor.)
Turner, Douglas, assignor to The Measuregraph Company, St. Louis, Mo. Measuring-machine attachment for cloth-measuring machines. No. 1,391,431; Sept. 20; v. 290; p. 532.
Turner, Julius A., New Marlboro, Mass. Belt-coupling. No. 1,391,285; Sept. 20; v. 290; p. 502.
Tuttle, Frank P., Indianapolis, Ind., assignor to The Cleveland Osborn Manufacturing Company, Cleveland, Ohio. Brushing or polishing apparatus. No. 1,391,221; Sept. 20; v. 290; p. 489.
Underfeed Stoker Company of America, The. (See Jennings, Thomas, assignor.)
United Brass Manufacturing Company. (See Schulder, Fred, assignor.)
United Shoe Machinery Corporation. (See Lund, Thomas, assignor.)
United Shoe Machinery Corporation. (See Meyer, William C., assignor.)
United Shoe Machinery Corporation. (See Stewart, William C., assignor.)
United Soda Fountain Company. (See Condon, Ernest L., assignor.)
United States Gauge Company. (See Nelson, Ralph M., assignor.)
Universal Tool Company. (See Evans, E. J., and Hemphill, assignors.)
Updegrave, William M., Johnstown, Pa. Eye-testing chart. No. 1,391,084; Sept. 20; v. 290; p. 461.
Vander Putten, John R., assignor to The Wise-McClung Manufacturing Company, New Philadelphia, Ohio. Switch-actuating device for electric carpet-sweepers. No. 1,391,501; Sept. 20; v. 290; p. 546.
Van Fleet, Lee, Parkersburg, Iowa. Chair. No. 1,391,222; Sept. 20; v. 290; p. 489.
Van Fleming, C. (See Ferguson, Edward E., assignor.)
Van Wormer, Myron H. (See Truesdell, H. G., and Van Wormer.)
Vautrain, Charles E., Holyoke, Mass. Color-chart. No. 1,391,286; Sept. 20; v. 290; p. 502.
Verdin, Kappes & Verdin, The. (See Kappes, William H., assignor.)
Verow, George W. (See Little, A. L., and Verow.)
Victor Tool Company, The. (See Koontz, Victor R., assignor.)
Viehweger, August F. W., Hoboken, assignor of one-half to P. Kronstein, Jersey City, N. J. Circuit-closer for locks. No. 1,391,432; Sept. 20; v. 290; p. 532.
Voight, Henry G., New Britain, assignor to Sargent & Company, New Haven, Conn. Lock. No. 1,391,351; Sept. 20; v. 290; p. 516.
Von Bichowsky, Foord, and J. F. Harthan, Pomona, Calif. Synthetic production of titanium-nitrogen compounds. No. 1,391,148; Sept. 20; v. 290; p. 474.
Von Bichowsky, Foord, and J. F. Harthan, Pomona, Calif. Synthesizing titanium-nitrogen compounds. No. 1,391,147; Sept. 20; v. 290; p. 474.
Votaw, Homer S., Chopaka, Wash. Derailing-guard. No. 1,391,223; Sept. 20; v. 290; p. 489.
Votaw, Homer S., Chopaka, Wash. Railway-brake. No. 1,391,224; Sept. 20; v. 290; p. 489.
Wahl Company. (See Taylor, Milton C., assignor.)
Waldes, Jindrich, Prague, Bohemia. Display-card for safety-pins. No. 1,391,287; Sept. 20; v. 290; p. 502.
Waldes, Jindrich, Prague, Bohemia. Hairpin-package. No. 1,391,288; Sept. 20; v. 290; p. 502.
Walker, Henry C. (See Kampfe, Otto, assignor.)
Wallin, Gustaf A., Scotch Plains, N. J., assignor to A. Kimball Company, New York, N. Y. Unit package. No. 1,391,433; Sept. 20; v. 290; p. 532.
Walling, Herbert B., Salt Lake City, Utah. Screening and concentrating device. No. 1,391,026; Sept. 20; v. 290; p. 449.
Walser, Georges, Paris, France. Submarine listening apparatus. No. 1,391,654; Sept. 20; v. 290; p. 576.
Ward, Alfred P., San Antonio, Tex. Fireproof building construction. No. 1,391,352; Sept. 20; v. 290; p. 516.
Warner, Noah L., assignor to The Reliable Match Company, Ashland, Ohio. Machine for packing matches. No. 1,391,225; Sept. 20; v. 290; p. 490.
Waterman, Lewis E., assignor to Emerson-Brantingham Company, Rockford, Ill. Cultivator. No. 1,391,227; Sept. 20; v. 290; p. 449.
Waugh, John T., East San Diego, Calif. Turbine. No. 1,391,434; Sept. 20; v. 290; p. 532.
Weaver, Richard P., Carlisle, Pa. Reversible frog. No. 1,381,226; Sept. 20; v. 290; p. 490.

Weaver, Richard P., Carlisle, Pa. Sectional railway-crossing. No. 1,391,227; Sept. 20; v. 290; p. 490.
Webster, Charles B., Fall River, Mass. Tire-valve compressor. No. 1,391,228; Sept. 20; v. 290; p. 490.
Webster, Samuel T., St. Louis, Mo., assignor, by mesne assignments, to General Electric Company. Regenerative motor-control system. No. 1,391,289; Sept. 20; v. 290; p. 503.
Wegner, Fred C., Archer, Nebr. Poultry-roost. No. 1,391,596; Sept. 20; v. 290; p. 565.
Weissenborn, Albert B., assignor of one-half to Appleton Wire Works, Appleton, Wis. Let-off mechanism. No. 1,391,435; Sept. 20; v. 290; p. 533.
Welch, Harry V., assignor to International Precipitation Company, Los Angeles, Calif. Means for supporting and insulating high-tension electrodes in electrical precipitation apparatus. No. 1,391,436; Sept. 20; v. 290; p. 533.
Welffens, Emile J., West Withington, Manchester, England. Transmission mechanism. No. 1,391,290; Sept. 20; v. 290; p. 503.
Wells, Joseph C., Sr., assignor of one-half to W. D. Hatfield, Esserville, Va. Coupling. No. 1,391,597; Sept. 20; v. 290; p. 565.
Wells, Russell D., Royersford, Pa. Flowerpot or other vessel. No. 1,391,353; Sept. 20; v. 290; p. 516.
Wendell, John A., Montgomery, W. Va. Trolley-wheel. No. 1,391,085; Sept. 20; v. 290; p. 461.
Wendt, Gustave A., Spokane, Wash. Automobile-headlight. No. 1,391,229; Sept. 20; v. 290; p. 490.
Werntz, Carl N., Chicago, Ill. Artist's color-box. No. 1,391,028; Sept. 20; v. 290; p. 450.
Wescott, William B., Wellesley Hills, assignor to Kalmus, Comstock & Wescott, Incorporated, Boston, Mass. Cinematographic multiplex projection, &c. No. 1,391,029; Sept. 20; v. 290; p. 450.
Westinghouse Electric and Manufacturing Company. (See McCoy, James P. A., assignors.) (Reissue.)
Wheeler, Frank E. (See Hall, C. W., and Wheeler.)
Wheeler, George W., Lefroy, Ontario, Canada. Fish-decoy bait. No. 1,391,030; Sept. 20; v. 290; p. 450.
Wheeler, Harry S., Elizabeth, N. J., assignor to L. J. Wing Mfg. Co., New York, N. Y. Exhauster. No. 1,391,645; Sept. 20; v. 290; p. 575.
White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Auxiliary air control. No. 1,391,032; Sept. 20; v. 290; p. 450.
White, D'Orsay M., assignor to La Fayette Motors Company, Indianapolis, Ind. Steering mechanism for motor-vehicles. No. 1,391,031; Sept. 20; v. 290; p. 450.
Whitehead, Linwood M., Norfolk, Va. Tallying-machine. No. 1,391,086; Sept. 20; v. 290; p. 462.
Whitener, James O. (See Morgan, H. W., and Whitener.)
Whittington, Frederick G., assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum fuel-feed device. No. 1,391,230; Sept. 20; v. 290; p. 491.
Wiederwax, Robert W., assignor to Geist Manufacturing Company, Atlantic City, N. J. Water-heater. No. 1,391,354; Sept. 20; v. 290; p. 516.
Wiedoeft, Adolph F., Los Angeles, Calif. Kettledrum. No. 1,391,437; Sept. 20; v. 290; p. 533.
Wilkins, Arthur J., Bristow, Va. Rail-joint. No. 1,391,438; Sept. 20; v. 290; p. 533.
Wilcomb, J. F., Norristown, Pa., assignor, by mesne assignments, to Spartan Needle Company, Providence, R. I. Knitting-needle unit. No. 1,391,033; Sept. 20; v. 290; p. 451.
Willard Storage Battery Co. (See Willard, Theodore A., assignor.)
Willard, Theodore A., Cleveland Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Apparatus for sealing storage-battery jars. No. 1,391,149; Sept. 20; v. 290; p. 474.
Willey, Isaac F., Philadelphia, Pa. Ironing-machine. No. 1,391,521; Sept. 20; v. 290; p. 550.
Williams, Arthur, assignor to Wilmarth & Morman Company, Grand Rapids, Mich. Drill-holder. No. 1,391,034; Sept. 20; v. 290; p. 451.
Williams, Edward H., South Bend, assignor to Perkins Corporation, Mishawska, Ind. Stock-watering tank. No. 1,391,150; Sept. 20; v. 290; p. 475.
Williams, J. K. (See Schonitzer, Rudolph I., assignor.)
Williams, Joseph S., Riverton, N. J. Resilient annular body. No. 1,391,151; Sept. 20; v. 290; p. 475.
Williams, Nora, Spokane, Wash. Mixer. No. 1,391,439; Sept. 20; v. 290; p. 533.
Williamson, George, Oldham, England. Chuck. No. 1,391,440; Sept. 20; v. 290; p. 533.
Williamson, George, Oldham, England. Chuck. No. 1,391,441; Sept. 20; v. 290; p. 534.
Wilmarth & Morman Company. (See Williams, Arthur, assignor.)
Wilson, Della C., Eagle Rock, Calif. Kettle. No. 1,391,231; Sept. 20; v. 290; p. 491.
Wilson, Frederick D., assignor to Deere & Company, Moline, Ill. Lever. No. 1,391,152; Sept. 20; v. 290; p. 475.
Wilson, James M., assignor, by mesne assignments, to H. C. Heidrich and J. G. Bender, Newark, N. J. Master cut-out for storage batteries. No. 1,391,232; Sept. 20; v. 290; p. 491.
Winchester Repeating Arms Co. (See Butler, George P.)
Wing, L. J., Mfg. Co. (See Wheeler, Harry S., assignor.)
Wisconsin Electric Company. (See Beach, Chester H., assignor.)
Wise-McClung Manufacturing Company, The. (See Vander Putten, John R., assignor.)
Witte, Bernhard H., Chicago, Ill. Swing. No. 1,391,153; Sept. 20; v. 290; p. 475.
Wohn, Frederick, San Antonio, Tex. Overhead radial conveyer system. No. 1,391,598; Sept. 20; v. 290; p. 565.
Wolff, Edwin H., El Dorado, assignor of one-half to S. Clark, Kingsville, Kans. Stovepipe-fastener. No. 1,391,646; Sept. 20; v. 290; p. 535.
Wolff, Wallace B. (See Hood, E. K., and Wolff.)
Wolvekamp, Marl E., Oakland, Calif. Alkali salts of oxidized protalbinic acid and of oxidized lysalbinic acid as stable protective colloids for mercury compounds. No. 1,391,154; Sept. 20; v. 290; p. 475.
Wood, James, Noblesville, Ind. Shock-absorber. No. 1,391,035; Sept. 20; v. 290; p. 451.
Wood, Louis E., Farrell, Pa. Window-fixture. No. 1,391,599; Sept. 20; v. 290; p. 565.
Wood, Robert, New York, N. Y. Vacuum-breaker. No. 1,391,600; Sept. 20; v. 290; p. 566.
Woodward, Oscar, Babylon, assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,391,155; Sept. 20; v. 290; p. 476.
Worth, Leo F., South Bend, Ind. Razor-strop. No. 1,391,156; Sept. 20; v. 290; p. 476.
Woyevodsky, Nicholas, London, England. Aircraft. No. 1,391,355; Sept. 20; v. 290; p. 516.
Wulz, Edward, New York, N. Y. Combination-gage. No. 1,391,233; Sept. 20; v. 290; p. 491.
Wundrack, Otto, Maywood, assignor to T. Wundrack, Chicago, Ill. Baker's oven. No. 1,391,157; Sept. 20; v. 290; p. 476.
Wundrack, Theresia. (See Wundrack, Otto, assignor.)
Wyrick, Clayton E., Albany, N. Y., assignor to Multi-Print System Co., Inc., Chicago, Ill. Printing and serving machine. No. 1,391,356; Sept. 20; v. 290; p. 516.
Yale & Towne Manufacturing Company, The. (See Butler, Harry R., assignor.)
Yates, De Witt E., Chippewa Falls, Wis. Power-driven pump. No. 1,391,036; Sept. 20; v. 290; p. 451.
Young, Everett T., Peekskill, N. Y. Soapstone equivalent. No. 1,391,037; Sept. 20; v. 290; p. 452.
Zanon, Remo C., assignor of one-half to J. J. Ferlin, Modesto, Calif. Automatic safety-clutch. No. 1,391,601; Sept. 20; v. 290; p. 566.
Zeidler, Ernest, Marshfield, Wis. Box. No. 1,391,038; Sept. 20; v. 290; p. 452.
Zeidler, John T. (See Roosa, Frank A., assignor.)
Zink, Herman F., Jr., Chicago, Ill. Telephone attachment. No. 1,391,087; Sept. 20; v. 290; p. 462.
Zoltowski, John, Milwaukee, Wis. Waterproofing leather, cloth, or wood. No. 1,391,088; Sept. 20; v. 290; p. 462.
Zsarnay, Béla, Belleville, assignor of one-half to A. Lewis, Newark, N. J. Automatic water-drive for toys and machinery. No. 1,391,158; Sept. 20; v. 290; p. 476.

ALPHABETICAL LIST OF PATENTEES OF DESIGNS.

Ajax Rubber Company, Inc. (See Gardner, Charles T., assignor.)
Ajax Rubber Company, Inc. (See Reid, Elmer E., assignor.)
Allen, Erhard, assignor to The Dayton Display Fixture Company, Dayton, Ohio. Display-rack. No. 59,053; Sept. 20; v. 290; p. 578.
Allen, Louise R., New York, N. Y. Chain-pull for electrical-lamp sockets. No. 59,054; Sept. 20; v. 290; p. 578.
American Can Company. (See Hothersall, John M., assignor.)
Aultman, Joseph T., Milwaukee, Wis. Advertising-sign. No. 59,055; Sept. 20; v. 290; p. 578.
Beaver Machine & Tool Company. (See Downing, John B., assignor.)
Benjamin Electric Manufacturing Company. (See Benjamin, Reuben B., assignor.)
Benjamin, Reuben B., assignor to Benjamin Electric Manufacturing Company, Chicago, Ill. Reflector. No. 59,056; Sept. 20; v. 290; p. 578.
Bergstrom, George E., Chicago, Ill. Clothes-chest. Nos. 59,057–9; Sept. 20; v. 290; pp. 578–9.
Block, Hugo C., Watertown, Wis. Revolving-disk display toy. No. 59,060; Sept. 20; v. 290; p. 579.
Campbell, George. (See Papale, J. I., and Campbell.)
Chapman, Earl E., Los Angeles, Calif., assignor to Miller-Chapman Company. Spare-tire lock for automobiles. No. 59,062; Sept. 20; v. 290; p. 579.
Cohn, Harry, assignor to Hygrade Lighting Fixture Corporation, Brooklyn, N. Y. Arm of a wall-bracket for lighting-fixtures. No. 59,063; Sept. 20; v. 290; p. 580.

Colgate & Company. (See Duke, Emily, assignor.)
Danielson, Arvid G., Willmar, Minn. Frame for a paper-cutter or similar article. No. 59,064; Sept. 20; v. 290; p. 580.
Dayton Display Fixture Company, The. (See Allen, Erhard, assignor.)
Doucette, William M., Yonkers, N. Y. Tire-tread. Nos. 59,065–9; Sept. 20; v. 290; pp. 580–1.
Downing, John B., assignor to Beaver Machine & Tool Company, Newark, N. J. Feed-through switch. No. 59,070; Sept. 20; v. 290; p. 581.
Duke, Emily, assignor to Colgate & Company, New York, N. Y. Bottle. No. 59,071; Sept. 20; v. 290; p. 581.
Earle, Horatio S., Detroit, Mich. Blade for grass-hooks. No. 59,072; Sept. 20; v. 290; p. 581.
Ehrlich, Samuel T., Newark, N. J. Tire-tread. No. 59,073; Sept. 20; v. 290; p. 581.
Gallagher, Harry J., assignor to Kokomo Brass Works, Kokomo, Ind. Staff-head. No. 59,074; Sept. 20; v. 290; p. 582.
Gardner, Charles T., New York, assignor to Ajax Rubber Company, Inc., Millbrook, N. Y. Tire-tread. No. 59,075; Sept. 20; v. 290; p. 582.
Globe Stove & Range Co., The. (See Hamlin, Louis R., assignor.)
Goodyear Tire & Rubber Company, The. (See Trogner, Roland S., assignor.)
Graves, Clarence L., Eland, Wis., assignor of one-half to L. Oleson, St. Paul, Minn. Kitchen-tool. No. 59,076; Sept. 20; v. 290; p. 582.
Groves, J. Willard, assignor to The Lotus Cut Glass Co., Barnesville, Ohio. Surface ornamentation for a glass goblet or similar article. No. 59,077; Sept. 20; v. 290; p. 582.
Hamlin, Louis R., assignor to The Globe Stove & Range Co., Kokomo, Ind. Electric plate. No. 59,078; Sept. 20; v. 290; p. 582.
Harwi, Warren A., Atchison, Kans. Hand-washboard. No. 59,079; Sept. 20; v. 290; p. 582.
Hendricks, Curtis E., Southport, Ind. Ignition-wire manifold. Nos. 59,080–6; Sept. 20; v. 290; pp. 583–4.
Hibben, Samuel G., Bloomfield, N. J. Lighting-fixture. No. 59,087; Sept. 20; v. 290; p. 584.
Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Talcum-powder box. Nos. 59,088–118; Sept. 20; v. 290; pp. 584–91.
Hygrade Lighting Fixture Corporation. (See Cohn, Harry, assignor.)
Johnson, August G., Monessen, Pa. Wire fence. No. 59,119; Sept. 20; v. 290; p. 592.
Kokomo Brass Works. (See Gallagher, Harry J., assignor.)
Kurose, Keamon, Seattle, Wash. Tire-tread. No. 59,120; Sept. 20; v. 290; p. 592.
La Roche, Charles W., assignor of one-half to J. N. Meyers, Philadelphia, Pa. Lamp. No. 59,121; Sept. 20; v. 290; p. 592.
Lotus Cut Glass Co., The. (See Groves, J. Willard, assignor.)
Majestic Electric Development Co. (See Shoenberg, Milton H., assignor.)
Marko, Paul M., Brooklyn, N. Y. Handle. No. 59,122; Sept. 20; v. 290; p. 592.
Meyers, J. Nicholas. (See La Roche, Charles W., assignor.)
Miller-Chapman Company. (See Chapman, Earl E., assignor.)
Miller, Edward, & Company. (See Wolter, Herman H., assignor.)
Mirk, Paul, New York, N. Y. Casing for a radiator air-valve. No. 59,123; Sept. 20; v. 290; p. 592.
Morton, Albert L., Springfield, Ill. Toilet-chair. No. 59,126; Sept. 20; v. 290; p. 593.
Murphy, William J., Cedar Falls, Iowa. Tire-tread. Nos. 59,124–5; Sept. 20; v. 290; p. 593.
Oleson, Laves. (See Graves, Clarence L., assignor.)
Papale, Joseph I., and G. Campbell, San Francisco, Calif. Lamp. No. 59,061; Sept. 20; v. 290; p. 579.
Perrault, Joseph E., Northampton, Mass. Toothbrush. No. 59,127; Sept. 20; v. 290; p. 593.
Reid, Elmer A., Trenton, N. J., assignor to Ajax Rubber Company, Inc., Millbrook, N. Y. Tire-casing. No. 59,128; Sept. 20; v. 290; p. 593.
Romanson, Lucas, Fisherton, Manitoba, Canada. Self-setting mousetrap. No. 59,129; Sept. 20; v. 290; p. 594.
Samstag, Louis A., New York, N. Y. Stand for displaying articles of merchandise. No. 59,130; Sept. 20; v. 290; p. 594.
Scalise, Oreste, Chicago, Ill. Dustpan. No. 59,131; Sept. 20; v. 290; p. 594.
Schwartz, S. R., New York, N. Y. Portable lamp-base. No. 59,132; Sept. 20; v. 290; p. 594.
Shoenberg, Milton H., assignor to Majestic Electric Development Co., San Francisco, Calif. Radiant electric heating unit. No. 59,133; Sept. 20; v. 290; p. 594.
Soderlund, Carl, Akron, Ohio. Cushion-tire tread. No. 59,134; Sept. 20; v. 290; p. 594.
Topper, Thomas J., San Francisco, Calif. Coffee-urn. No. 59,135; Sept. 20; v. 290; p. 595.
Travis, John M., St. Louis, Mo. Beverage-dispensing apparatus. Nos. 59,136–8; Sept. 20; v. 290; p. 595.
Trogner, Roland S., assignor to The Goodyear Tire & Rubber Company, Akron, Ohio. Tire. Nos. 59,139–67; Sept. 20; v. 290; pp. 595–602.
Wolter, Herman H., assignor to Edward Miller & Company, Meriden, Conn. Lamp. Nos. 59,169–70; Sept. 20; v. 290; p. 602.
Wolter, Herman H., assignor to Edward Miller & Company, Meriden, Conn. Support for a lamp or similar article. No. 59,168; Sept. 20; v. 290; p. 602.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Acme Supply Co., Los Angeles, Calif. Malted barley-syrup. No. 146,663; Sept. 20; v. 290; p. 631.
Adams, Emory C., Columbus, Ga. Medicinal preparation for the treatment of diseases due to the improper functioning of the liver. No. 146,664; Sept. 20; v. 290; p. 631.
Ades, David, Lexington, Ky. Articles of clothing. No. 146,665; Sept. 20; v. 290; p. 631.
Ainsley, J. C., Packing Co., Campbell, Calif. Canned fruit—namely, fruit processed with syrup and gelatin to form a gelatinous molded mass. No. 146,666; Sept. 20; v. 290; p. 631.
Air-Tight Steel Tank Company, Pittsburgh, Pa. Certain tanks. No. 146,667; Sept. 20; v. 290; p. 631.
Amboy Products Co., Chicago, Ill. Chewing-gum. No. 146,668; Sept. 20; v. 290; p. 631.
American Cellulose & Chemical Manufacturing Company Limited, The, New York, N. Y. Certain cloths and fabrics in the piece of silk, artificial silk, and combinations. No. 146,669; Sept. 20; v. 290; p. 631.
American Dry Goods Company of New York, New York, N. Y. Men's, ladies', and children's underwear. No. 146,670; Sept. 20; v. 290; p. 631.
American Fashion Clothes, New York, N. Y. Men's clothing. No. 146,671; Sept. 20; v. 290; p. 631.
American Fork & Hoe Company, The, Cleveland, Ohio. Certain farm, garden, and other hand tools. No. 146,672; Sept. 20; v. 290; p. 631.
American Hominy Company, Indianapolis, Ind., and Decatur, Ill. Corn-syrup for food purposes. Nos. 146,673–4; Sept. 20; v. 290; p. 631.
American Transoceanic Traders, Inc., New York, N. Y. Matches. No. 146,675; Sept. 20; v. 290; p. 631.
American Tripoli Company, Seneca, Mo. Tripoli flour used as a polishing material. No. 146,923; Sept. 20; v. 290; p. 641.
American Tripoli Company, Seneca, Mo. Tripoli filter-stones, pressure, siphon, and disk filters. Nos. 146,676–7; Sept. 20; v. 290; p. 631.
American Zinc, Lead and Smelting Company, Boston, Mass. Zinc oxid and mixtures containing zinc oxid. No. 146,678; Sept. 20; v. 290; p. 631.
Anaheim Citrus Fruit Association, Anaheim, Calif. Fresh citrus fruits. No. 146,679; Sept. 20; v. 290; p. 631.
Anders, D. Webster, assignor to H. Freed, Boston, Mass. Preparation for the treatment of skin diseases. No. 146,680; Sept. 20; v. 290; p. 631.
Aunt Jemima Mills Company, St. Joseph, Mo. Cooking and salad oils. No. 146,681; Sept. 20; v. 290; p. 631.
Auto Ordnance Corporation, New York, N. Y. Pistols. No. 146,682; Sept. 20; v. 290; p. 631.
Avery Company, Peoria, Ill. Tractors and motor-propelled agricultural implements. No. 146,683; Sept. 20; v. 290; p. 631.
Barshaw, W. H., Co., Lowell, Mass. Phonographic needles. No. 146,684; Sept. 20; v. 290; p. 631.
Balaszek, Paul A., Cleveland, Ohio. Palliative for rheumatism, colds, &c. No. 146,685; Sept. 20; v. 290; p. 631.
Beaver Varnish Co., Inc., The, Buffalo, N. Y. Mixed paints in oil, enamels, varnishes, &c. No. 146,686; Sept. 20; v. 290; p. 631.
Benike, William E., Milwaukee, Wis. Liquid medicinal preparation for the treatment of eczema. No. 146,687; Sept. 20; v. 290; p. 631.
Bently & Twohey Silk Company, Newton, N. J., and New York, N. Y. Silk goods in the piece. No. 146,688; Sept. 20; v. 290; p. 632.
Berkowitz, Annie, Brooklyn, N. Y. Preparation for the treatment of pulmonary diseases. No. 146,689; Sept. 20; v. 290; p. 632.
Berman, John, New Judson, Ind. Sugar substitute. No. 146,690; Sept. 20; v. 290; p. 632.
Bill, Edward Lyman, Inc., New York, N. Y. Journal published monthly. No. 146,924; Sept. 20; v. 290; p. 641.
Block, Alexander E., St. Louis, Mo. Flexible non-metallic supports of leather or like material. No. 146,691; Sept. 20; v. 290; p. 632.
Bloch Go-Cart Company, Philadelphia, Pa. Baby-carriages. No. 146,692; Sept. 20; v. 290; p. 632.
Boston Blacking Company, Portland, Me., and East Cambridge, Mass. Straw-hat dye. Nos. 146,693–4; Sept. 20; v. 290; p. 632.
Boston Manufacturing Company, 1901, The, Waltham, Mass. Gingham piece goods. No. 146,695; Sept. 20; v. 290; p. 632.
Bradshaw, Reginald D., Payette, Idaho. Comb and extracted honey. No. 146,696; Sept. 20; v. 290; p. 632.
Bugenhagen, George H., Minot, N. D. Lawn-swings. No. 146,697; Sept. 20; v. 290; p. 632.
Buonaiuto, Giuseppe, New York, N. Y. Hair-tonic. No. 146,698; Sept. 20; v. 290; p. 632.
Buran, Alois, Ridgewood, N. Y. Healing-plasters for wounds, cuts, and bruises. No. 146,699; Sept. 20; v. 290; p. 632.
Burkhart, William S., Cincinnati, Ohio. Vegetable blood-purifier. No. 146,700; Sept. 20; v. 290; p. 632.
Burt, Alfred H., Buffalo, N. Y. Candy, peanuts, and popcorn. No. 146,701; Sept. 20; v. 290; p. 632.
Cabañas Font, Pio, Barcelona, Spain. Natural mineral water. No. 146,738; Sept. 20; v. 290; p. 633.
California Alkali Company, Los Angeles, Calif. Certain chemicals. No. 146,702; Sept. 20; v. 290; p. 632.
Candi-Lax Mfg. Co., The, Cincinnati, Ohio. Fruit laxative. No. 146,703; Sept. 20; v. 290; p. 632.
Carpenter, Elmer, Harvard, Ill. Face-lotion. No. 146,704; Sept. 20; v. 290; p. 632.
Carr, J. B., Biscuit Co., Wilkes-Barre, Pa. Soda biscuit and crackers. No. 146,705; Sept. 20; v. 290; p. 632.
Central Manufacturing Company, St. Louis, Mo. Laundry-washing machines and wringers. No. 146,707; Sept. 20; v. 290; p. 632.
Chatham Bottling Company, Savannah, Ga. Non-alcoholic, maltless beverages. No. 146,708; Sept. 20; v. 290; p. 632.
Cheney Brothers, South Manchester, Conn. Woven, knitted, netted, textile, and pile fabrics in the piece. No. 146,709; Sept. 20; v. 290; p. 632.
Chesapeake Belting Company, The, Baltimore, Md. Canvas belting. No. 146,710; Sept. 20; v. 290; p. 632.
Chesler, Henry, Cleveland, Ohio. Burlap, jute, and cotton bags. No. 146,711; Sept. 20; v. 290; p. 632.
Commercial Trading Company, Boston, Mass. Certain articles of clothing. Nos. 146,712–15; Sept. 20; v. 290; p. 632.
Commonwealth Cigar Co., St. Louis, Mo. Cigars. No. 146,716; Sept. 20; v. 290; p. 632.
Cotto Waxo Co., St. Louis, Mo. Poultry-tonics. No. 146,718; Sept. 20; v. 290; p. 632.
Coty, François J. de S., Suresnes, France. Perfumes, toilet waters, &c. No. 146,717; Sept. 20; v. 290; p. 632.
Coty, François J. de S., Suresnes, France. Perfumes and toilet waters. No. 146,719; Sept. 20; v. 290; p. 632.
Crown Products Co., New York, N. Y. General tonic. No. 146,720; Sept. 20; v. 290; p. 632.
Dade City Packing Co., Dade City, Fla. Fresh citrus fruits. No. 146,721; Sept. 20; v. 290; p. 632.
Davidson-Lake Tea and Coffee Co., Salt Lake City, Utah. Coffee. No. 146,722; Sept. 20; v. 290; p. 633.
Day Company, The, Minneapolis, Minn. Ventilators and chimney-caps. No. 146,723; Sept. 20; v. 290; p. 633.
Day, James B., & Co., Chicago, Ill. Paint-brushes. No. 146,724; Sept. 20; v. 290; p. 633.
Del Castillo, Angel G., Seville, Spain. Olive-oil and canned olives. No. 146,706; Sept. 20; v. 290; p. 632.
Delisco Corporation, Limited, Boston, Mass. Coffee substitute. No. 146,925; Sept. 20; v. 290; p. 641.
Diamond Chemical Co., San Francisco, Calif. Artificial mineral water. No. 146,725; Sept. 20; v. 290; p. 633.
Diamond Pure Food Company, Jeffersonville, Ind. Cake, wafers, and pancake-flour. No. 146,726; Sept. 20; v. 290; p. 633.
Dill Company, The, Norristown, Pa. Certain named medicinal preparation. No. 146,727; Sept. 20; v. 290; p. 633.
Dunlop Tire and Rubber Corporation of America, Tonawanda, N. Y. Rubber tires and parts thereof. No. 146,728; Sept. 20; v. 290; p. 633.
E. C. Manufacturing Company, The, Elkhart, Ind. Spark-plugs for ignition systems for internal-combustion engines. No. 146,729; Sept. 20; v. 290; p. 633.
Edwards, J., & Co., Inc., Philadelphia, Pa. Children's, misses', and growing girls' leather shoes. No. 146,730; Sept. 20; v. 290; p. 633.
Ely & Walker Dry Goods Company, St. Louis, Mo. India linon, ginghams, poplin, &c. No. 146,731; Sept. 20; v. 290; p. 633.
Engelhard, A., & Sons Company, Louisville, Ky. Food and food ingredients. No. 146,732; Sept. 20; v. 290; p. 633.
Escoffier Limited, London, England. Mayonnaise, catsup, food-oils, pickles, &c. No. 146,733; Sept. 20; v. 290; p. 633.
Fiberloid Corporation, The, Indian Orchard, Mass. Hair, clothes, tooth, and nail brushes. No. 146,734; Sept. 20; v. 290; p. 633.
Filmusic Company, Los Angeles, Calif. Perforated music rolls or sheets for use with mechanical player instruments. No. 146,735; Sept. 20; v. 290; p. 633.
Flash Hot Water Heater Co., Philadelphia, Pa. Hot-water heaters. No. 146,736; Sept. 20; v. 290; p. 633.
Florsheim Shoe Company, The, Chicago, Ill. Boots and shoes made of leather. No. 146,737; Sept. 20; v. 290; p. 633.
Folding Partition Company, The, New York, N. Y., assignors to The J. G. Wilson Corporation. Partitions and doors. No. 146,926; Sept. 20; v. 290; p. 641.
Forrest, T. W. W., Oakland, Calif. Vaporized grapes. No. 146,739; Sept. 20; v. 290; p. 633.
Forstmann & Huffmann Company, Passaic, N. J. Woolen piece goods. No. 146,740; Sept. 20; v. 290; p. 633.

Foster-McClellan Co., Buffalo, N. Y., and London, England. Preparations for use in connection with digestive disorders. No. 146,741; Sept. 20; v. 290; p. 633.
Frankenstein, Arthur, New York, N. Y. Military game-board. No. 146,743; Sept. 20; v. 290; p. 633.
Frank, Richard, New York, N. Y. Vanilla extract. No. 146,742; Sept. 20; v. 290; p. 633.
Freixas, Antoine, Buenos Aires, Argentina. Alcoholic beverage tinctured with anise. No. 146,744; Sept. 20; v. 290; p. 633.
Friedlander Leather Co., Inc., New York, N. Y. Leather. No. 146,745; Sept. 20; v. 290; p. 633.
Fruit Distributers Service Co., Inc., Chicago, Ill. Cantaloups and lettuce. No. 146,746; Sept. 20; v. 290; p. 633.
Garcia & Maginni Co., San Francisco, Fresno, Watsonville, Sebastopol, Santa Rosa, Forestville, and Healdsburg, Calif. Fresh and dried fruits. No. 146,747; Sept. 20; v. 290; p. 633.
Gennert, Gustave C., New York, N. Y. Photographic developers. No. 146,748; Sept. 20; v. 290; p. 633.
Ghiglino, Cesar, New York, N. Y. Concentrated fruit-syrup base, soft drinks, non-alcoholic, and wintergreen flavoring extract. No. 146,749; Sept. 20; v. 290; p. 633.
Gibson Commercial Co., Salt Lake City, Utah. Flavoring-vanilla, a fluid extract. No. 146,750; Sept. 20; v. 290; p. 633.
Goldbert, Max L., New York, N. Y. Phonographs and parts thereof. No. 146,751; Sept. 20; v. 290; p. 633.
Goldman, Herman B., Baltimore, Md. Certain medicinal preparations. No. 146,752; Sept. 20; v. 290; p. 633.
Goodrich, B. F., Company, The, New York, N. Y. Inner tubes made of rubber. No. 146,927; Sept. 20; v. 290; p. 641.
Graham Bros. Soap Company, Chicago, Ill. Shampoo, toilet powder and cream. No. 146,753; Sept. 20; v. 290; p. 633.
Gray-Juergens Co., Cincinnati, Ohio. Non-alcoholic, maltless, non-cereal beverage, and syrup for making same. No. 146,754; Sept. 20; v. 290; p. 634.
Green and Green Company, The, Dayton, Ohio. Crackers. No. 146,928; Sept. 20; v. 290; p. 641.
Gutter, B., & Sons, New York, N. Y. Watches, watch cases and movements. No. 146,756; Sept. 20; v. 290; p. 634.
Haas, Dr. Joseph, New York, N. Y. Face-lotions and hair-tonics. No. 146,759; Sept. 30; v. 290; p. 634.
Haas Brothers Fabrics Corporation, New York, N. Y. Silk, woolen, linen, and cotton piece goods. Nos. 146,757–8; Sept. 20; v. 290; p. 634.
Hammer & Co., San Francisco, Calif. Gasolene and kerosene. No. 146,760; Sept. 20; v. 290; p. 634.
Hammond Standish & Co., Detroit, Mich. Breakfast-sausages. No. 146,761. Sept. 20; v. 290; p. 634.
Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Butter-color. No. 146,762; Sept. 20; v. 290; p. 634.
Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Food-colors. No. 146,763; Sept. 20; v. 290; p. 634.
Hausman, H., & Company, New York, N. Y. Ticklngs, cotton suitings, muslins, serges, &c. No. 146,764; Sept. 20; v. 290; p. 634.
Hawley & Hoops, New York, N. Y. Candy. No. 146,765; Sept. 20; v. 290; p. 634.
Hesco Limited, London, England. Hand lifting-trucks. No. 146,766; Sept. 20; v. 290; p. 634.
Hillerich & Bradsby Co., Inc., Louisville, Ky. Baseball-bats. No. 146,767; Sept. 20; v. 290; p. 634.
Hood River Spray Company, Hood River, Oreg. Certain spraying compounds. No. 146,771; Sept. 20; v. 290; p. 634.
Holden-Leonard Co., New York, N. Y. Worsted and woolen textile fabrics in the piece. Nos. 146,768–9; Sept. 20; v. 290; p. 634.
Holley, William G., Fort Wayne, Ind. General tonic. No. 146,770; Sept. 20; v. 290; p. 634.
Houbigant, Inc. (See Parfumerie Houbigant, assignors.)
Houghton, E. F., & Co., Philadelphia, Pa. Metal-cutting oils. Nos. 146,773–4; Sept. 20; v. 290; p. 634.
Hoyt, Howard H., Candy Co., Chicago, Ill. Candy. No. 146,775; Sept. 20; v. 290; p. 634.
Hyman & Oppenheim, New York, N. Y. Hair-dressing. No. 146,776; Sept. 20; v. 290; p. 634.
Jansen & Pretzfeld, Inc., New York, N. Y. Silks in the piece. No. 146,849; Sept. 20; v. 290; p. 636.
Jentz, John N., Jersey City, N. J. Package coffee and rice. No. 146,777; Sept. 20; v. 290; p. 634.
Jordan, Robert G., Jr., Macon, Ga. Peanut-sandwiches. No. 146,782; Sept. 20; v. 290; p. 634.
Johnson, Cowdin & Company, Inc., New York, N. Y. Ribbons. Nos. 146,778–9; Sept. 20; v. 290; p. 634.
Jones, John W., Fletcher, Okla. Hair-restorer. No. 146,781; Sept. 20; v. 290; p. 634.
J-R Products Company, The, Cincinnati, Ohio. Chemical preparation for intensifying gasolene. No. 146,783; Sept. 20; v. 290; p. 634.
Keener Sand & Clay Co., Columbus, Ohio. Molding-sand. No. 146,784; Sept. 20; v. 290; p. 634.
Kelleher, William J., Toronto, Ontario, Canada. Butterscotch candy. No. 146,785; Sept. 20; v. 290; p. 634.
Kelley, William T., Kirkwood, Mo. Goiter reducer or treatment. No. 146,786; Sept. 20; v. 290; p. 635.
Kelsall & Kemp Limited, The Butts, Rochdale, England. Flannel. No. 146,787; Sept. 20; v. 290; p. 635.
Kjaer, L. Wilhjelm, Copenhagen, Denmark. Disinfectants. No. 146,790; Sept. 20; v. 290; p. 635.
King Candy Co., Fort Worth, Tex. Candy. No. 146,788; Sept. 20; v. 290; p. 635.
Kirschbaum, A. B., Company, Philadelphia, Pa. Men's and young men's outer suits and overcoats. No. 146,789; Sept. 20; v. 290; p. 635.
Koment, Adolph, Jersey City, N. J. Bread. No. 146,793; Sept. 20; v. 290; p. 635.
Knight Engineering & Sales Co., Los Angeles, Calif. Electric hand-drills. No. 146,791; Sept. 20; v. 290; p. 635.
Knights, Fannie, Wichita, Kans. Face-powder. No. 146,792; Sept. 20; v. 290; p. 635.
Krauss Bros. Lumber Co., New Orleans, La. Wooden shingles. No. 146,794; Sept. 20; v. 290; p. 635.
Kroehle, Oscar, Cleveland, Ohio. Electrically-lighted signals and parts thereof. No. 146,795; Sept. 20; v. 290; p. 635.
La-Lo Chemical Company, Providence, R. I. Hardening and waterproofing liquid for treating concrete floors. No. 146,797; Sept. 20; v. 290; p. 635.
Lang, Gerhard, Buffalo, N. Y. Fresh, smoked, and salted meats, and lard. No. 146,796; Sept. 20; v. 290; p. 635.
Leatherman, Benjamin A., Washington, D. C. Preparation for the treatment of protuding, itching, and bleeding piles. No. 146,798; Sept. 20; v. 290; p. 635.
Lee, William R., Rochester, N. Y. Felt-surfaced shoe polishes and brushes and brushes and dusters for phonographic records. No. 146,799; Sept. 20; v. 290; p. 635.
Lewis, O. I., Albuquerque, N. Mex. External remedy useful in the treatment of eczema and other skin affections. No. 146,800; Sept. 20; v. 290; p. 635.
Liberty Candy Company, Grand Rapids, Mich. Candies. No. 146,801; Sept. 20; v. 290; p. 635.
Liberty Orchards Company, Cashmere, Wash. Candy. No. 146,802; Sept. 20; v. 290; p. 635.
Lincoln Tire & Rubber Co., Cleveland, Cincinnati, Dayton, &c., Ohio. Rubber vehicle tires, casings, and tubes. No. 146,929; Sept. 20; v. 290; p. 641.
Longwear Rubber Company, The, Elyria, Ohio. Rubber tires and tubes. No. 146,930; Sept. 20; v. 290; p. 641.
Magic Beautifier Company, New York, N. Y. Face-powder in paste form. No. 146,806; Sept. 20; v. 290; p. 635.
Malleable Iron Range Company, Beaver Dam, Wis. Flue-linings. No. 146,807; Sept. 20; v. 290; p. 635.
Mallinson, H. R., & Co., Inc., New York, N. Y. Silk piece goods. Nos. 146,808–9; Sept. 20; v. 290; p. 635.
Marnite Food Extract Co., Limited, London, England. Concentrated culinary preparation, being a vegetable extract prepared from the yeast-cell. No. 146,810; Sept. 20; v. 290; p. 635.
Marshall Canning Co., Marshalltown, Iowa. Cereal breakfast food. No. 146,931; Sept. 20; v. 290; p. 642.
Marshall, Charles L., London, England. Expanded vulcanized rubber for tires, tubes, &c. No. 146,811; Sept. 20; v. 290; p. 635.
Marshall Field & Company, Chicago, Ill. Piece goods—namely, cotton duck. No. 146,812; Sept. 20; v. 290; p. 635.
Marshall Field & Company, Chicago, Ill. Muslins in the piece. No. 146,813; Sept. 20; v. 290; p. 635.
Marshall Field & Company, Chicago, Ill. Bedspreads. Nos. 146,814–15; Sept. 20; v. 290; p. 635.
Martí y Gutiérrez, Seville, Spain. Olive-oil. No. 146,755; Sept. 20; v. 290; p. 634.
McArthur, Harold M., & Co., Limited, Livespool, England. Bark from which tanning substances or extracts are made. No. 146,803; Sept. 20; v. 290; p. 635.
McDonald, J. G., Chocolate Co., Salt Lake City, Utah. Candies, chocolates, and fruit confections. No. 146,804; Sept. 20; v. 290; p. 635.
McKusick-Towle & Company, Minneapolis, Minn. Candy. No. 146,805; Sept. 20; v. 290; p. 635.
Meier, B., & Son, New York, N. Y. Smoked and dried meats and dried sausage. No. 146,816; Sept. 20; v. 290; p. 635.
Mihalovitch Co., The, Cincinnati, Ohio. Tonic used as a blood-builder and nerve-tonic. No. 146,817; Sept. 20; v. 290; p. 635.
Moore, William H., Kansas City, Mo. Cream for eczema. No. 146,818; Sept. 20; v. 290; p. 635.
Morse & Burt Co. Inc., Brooklyn, N. Y. Shoes of leather, fabric, and combinations. No. 146,819; Sept. 20; v. 290; p. 636.
Moundridge Milling Co., Moundridge, Kans. Wheat-flour. No. 146,820; Sept. 20; v. 290; p. 636.
Mueller, John, Licorice Co., The, Cincinnati, Ohio. Licorice confections. No. 146,821; Sept. 20; v. 290; p. 636.
Nash, C. A., & Son, Inc., Norfolk, Va. Locks and latches. No. 146,822; Sept. 20; v. 290; p. 636.
Newbold, John L., Washington, D. C. Candy. No. 146,823; Sept. 20; v. 290; p. 636.
Newbro Manufacturing Company, Atlanta, Ga. Hair-pomade. No. 146,824; Sept. 20; v. 290; p. 636.
Novocol Chemical Mfg. Co. Inc., Brooklyn, N. Y. Local anesthetics. No. 146,826; Sept. 20; v. 290; p. 636.
Noxal Polish Manufacturing Company, Philadelphia, Pa. Polish for automobiles, pianos, victrolas, furniture, &c. No. 146,825; Sept. 20; v. 290; p. 636.
Nucoa Butter Company, The, New York, N. Y. Vegetable shortening. No. 146,827; Sept. 20; v. 290; p. 636.

O'Leary, Timothy J., Los Angeles, Calif. Doughnuts. No. 146,828; Sept. 20; v. 290; p. 636.
One Thousand One Madison Avenue French Pastry & Restaurant Co. Incorporated, New York, N. Y. Pastries, cakes, cookies. No. 146,829; Sept. 20; v. 290; p. 636.
Owl Drug Company, The, San Francisco, Calif. Medicinal and pharmaceutical preparation. No. 146,830; Sept. 20; v. 290; p. 636.
Package Confectionery Company, Boston, Mass. Candy. No. 146,932; Sept. 20; v. 290; p. 642.
Package Confectionery Company, Boston, Mass. Wheat cereal, sugar-coated. No. 146,831; Sept. 20; v. 290; p. 636.
Paladino, John, Philadelphia, Pa. Medicinal preparations. No. 146,832; Sept. 20; v. 290; p. 636.
Parfumerie Houbigant, Paris, France, assignors to Houbigant, Inc., New York, N. Y. Perfumes, toilet waters, face-powders, &c. No. 146,772; Sept. 20; v. 290; p. 634.
Parke, Davis & Company, Detroit, Mich. Vitamin products. No. 146,833; Sept. 20; v. 290; p. 636.
Parsons, Irving R., Chicago, Ill. Nail-polish in powder form. No. 146,834; Sept. 20; v. 290; p. 636.
Peerless Paper Company, The, Dayton, Ohio. Ledger-paper. No. 146,835; Sept. 20; v. 290; p. 636.
Peninsular Paper Company, Ypsilanti, Mich. Printing, writing, cover, and bond paper. No. 146,836; Sept. 20; v. 290; p. 636.
Perfect, Mary, San Diego, Calif. Children's one and two piece dresses, rompers, hats, and textile underwear. No. 146,837; Sept. 20; v. 290; p. 636.
Peyton-Palmer Co., Danville, Ill. Canned fruits and vegetables, condiments, coffee. No. 146,838; Sept. 20; v. 290; p. 636.
Pierce, F. O., Company, New York, N. Y. Bituminous rubber paint. No. 146,839; Sept. 20; v. 290; p. 636.
Pillsbury Flour Mills Company, Minneapolis, Minn. Pancake-flour. No. 146,933; Sept. 20; v. 290; p. 642.
Plummer & Edwins, Seattle, Wash. Fresh deciduous fruit. No. 146,841; Sept. 20; v. 290; p. 636.
Pollack, Max, & Co., Inc., New York, N. Y. Sewing-threads. Nos. 146,842–5; Sept. 20; v. 290; p. 636.
Porcelain Enamel and Manufacturing Company of Baltimore, Baltimore, Md. Vitreous and porcelain enamels. No. 146,847; Sept. 20; v. 290; p. 636.
Pontiac Manufacturing Company, The, Auburn, Me. Woolen outside shirts, coats, vests, and pants. No. 146,846; Sept. 20; v. 290; p. 636.
Pozmantier, Samuel, New York, N. Y. Preparation promoting the growth of the hair. No. 146,848; Sept. 20; v. 290; p. 636.
Randall, Clide, Bartlett, Kans. Salve and ointment preparations. No. 146,850; Sept. 20; v. 290; p. 636.
Remien & Kuhnert Co., Chicago, Ill. Floor-varnish. No. 146,851; Sept. 20; v. 290; p. 636.
Remington Machine Company, Wilmington, Del. Ice-making and refrigerating machinery. No. 146,852; Sept. 20; v. 290; p. 637.
Riches, River & Co., Elizabeth, N. J., and New York, N. Y. Calcium compounds. No. 146,840; Sept. 20; v. 290; p. 636.
Richland Milling Company, Belleville, Ill. Wheat-flour. No. 146,853; Sept. 20; v. 290; p. 637.
Rogers, Company, The, Tacoma, Wash. Vegetable oils and a combination of vegetable oils and animal fats for food purposes. No. 146,854; Sept. 20; v. 290; p. 637.
Roundy, Peckham & Dexter Co., Milwaukee, Wis. Tea and coffee. No. 146,855; Sept. 20; v. 290; p. 637.
Russell Manufacturing Company, The, Middletown, Conn. Halters, surcingles, girths, web-harness, auto, bag, school, lowering, and bundle-straps. No. 146,856; Sept. 20; v. 290; p. 637.
Saino, F. L., Manufacturing Co. Inc., The, Memphis, Tenn. Metal fire doors and shutters. No. 146,857; Sept. 20; v. 290; p. 637.
Salt's Textile Manufacturing Company, The, Bridgeport, Conn., and New York, N. Y. Pile fabrics in the piece. No. 146,858; Sept. 20; v. 290; p. 637.
Samstag & Hilder Bros., New York, N. Y. Nail-brushes. No. 146,859; Sept. 20; v. 290; p. 637.
Sangtoy Company, The, Grand Rapids, Mich. Musical stringed instruments played by a bow. No. 146,860; Sept. 20; v. 290; p. 637.
Schibi Spring Brewing Co., St. Charles, Mo. Root-beer. No. 146,861; Sept. 20; v. 290; p. 637.
Schneider, Emil D., Memphis, Tenn. Cold and vanishing creams, toilet waters, &c. No. 146,864; Sept. 20; v. 290; p. 637.
Schoeneman, J., Incorporated, Baltimore, Md. Clothing. No. 146,865; Sept. 20; v. 290; p. 637.
Schriro, Benjamin, New York, N. Y. Non-alcoholic and non-cereal maltless beverages. No. 146,862; Sept. 20; v. 290; p. 637.
Schuckl, Max, San Francisco, Calif. Canned fruits and vegetables. No. 146,866; Sept. 20; v. 290; p. 637.
Shindley, Mr. & Mrs. Lewis A., Grand Rapids, Mich. Liquid external preparation for pneumonia, influenza, &c. No. 146,863; Sept. 20; v. 290; p. 637.
Shoot Chocolate Company, The, Cleveland, Ohio. Chocolates. No. 146,867; Sept. 20; v. 290; p. 637.
Shotwell Johnson Co., Minneapolis, Minn. Radiators, fenders, mud-guards, and hoods for automobiles, &c. No. 146,780; Sept. 20; v. 290; p. 634.
Simon, Franklin, & Co. Inc., New York, N. Y. Articles of clothing. No. 146,870; Sept. 20; v. 290; p. 637.
Simmons, Daniel D., Minot, N. D. Field-seed. No. 146,868; Sept. 20; v. 290; p. 637.
Simmons, Lennie, Dallas, Tex. Tonic used in treatment of the hair and scalp. No. 146,869; Sept. 20; v. 290; p. 637.
Sinclair Refining Company, Chicago, Ill. Kerosene. No. 146,875; Sept. 20; v. 290; p. 637.
Sinclair Refining Company, Chicago, Ill. Lubricating-oils. No. 146,872; Sept. 20; v. 290; p. 637.
Sinclair Refining Company, Chicago, Ill. Lubricating oils and greases. Nos. 146,873–4; Sept. 20; v. 290; p. 637.
Sinclair Refining Company, Chicago, Ill. Petroleum products used as a fuel for automobiles, &c. No. 146,871; Sept. 20; v. 290; p. 637.
Skinner, William, & Sons, New York, N. Y., and Holyoke, Mass. Satin and satin de chine in the piece. No. 146,876; Sept. 20; v. 290; p. 637.
Smooth-On Manufacturing Company, Jersey City, N. J. Substances used as a cement consisting chiefly of comminuted iron in powder and plastic form used as a cement. No. 146,877; Sept. 20; v. 290; p. 637.
South Bend Asphalt Roofing Co., South Bend, Ind. Prepared sheet-roofing. No. 146,878; Sept. 20; v. 290; p. 637.
Southern Agricultural Chemical Corporation, Richmond, Va. Sulfuric acid. No. 146,880; Sept. 20; v. 290; p. 637.
South Porto Rico Sugar Company, New York, N. Y. Sugar. No. 146,879; Sept. 20; v. 290; p. 637.
Spaulding, Perry D., Boston, Mass. Preparation indicated in all forms of inflammation and irritation of the eyes. No. 146,881; Sept. 20; v. 290; p. 637.
Spoehr's, Chicago, Ill. Candy. Nos. 146,882–4; Sept. 20; v. 290; pp. 637–8.
Stamped Specialties Company, (now by change of name John R. Lankenau Company,) Boston, Mass. Towels of textile material. No. 146,934; Sept. 20; v. 290; p. 642.
Stearns & Foster Company, The, Lockland, Ohio. Jute and cotton bats. No. 146,885; Sept. 20; v. 290; p. 638.
Steffens, George V., Paper Box Co., St. Louis, Mo. Paper boxes, razor and shear cases, and cutlery-display boxes. No. 146,886; Sept. 20; v. 290; p. 638.
Sterling Shoes Corporation, Buffalo, N. Y. Boots and shoes. No. 146,887; Sept. 20; v. 290; p. 638.
Strawberry Growers Selling Co., New Orleans, La. Fresh and preserved strawberries. Nos. 146,935–6; Sept. 20; v. 290; p. 642.
Stuart Products Corporation, Chicago, Ill. Electric batteries. No. 146,888; Sept. 20; v. 290; p. 638.
Surf Manufacturing Co., Milwaukee, Wis. Clothes-washing machines. No. 146,889; Sept. 20; v. 290; p. 638.
Swift and Company, Chicago, Ill. Oleomargarin. No. 146,890; Sept. 20; v. 290; p. 638.
Tappen, Howard A., Woodbridge, N. J. Cotton piece goods. No. 146,891; Sept. 20; v. 290; p. 638.
Torchweld Equipment Company, Chicago, Ill. Blowpipes. No. 146,892; Sept. 20; v. 290; p. 638.
Truby Broom Mfg. Co., Houston, Tex. Brooms. No. 146,893; Sept. 20; v. 290; p. 638.
"Turmac" Turkish Macedonian Tobacco Company, Arnhem, Netherlands. Cigarette-papers and mouthpieces for cigarettes and cigars. No. 146,894; Sept. 20; v. 290; p. 638.
"Turmac" Turkish Macedonian Tobacco Company, Arnhem, Netherlands. Cigarette-papers. No. 146,895; Sept. 20; v. 290; p. 638.
Twitchell-Champlin Company, The, Portland, Me., and Boston, Mass. Cream-tartar, baking-soda, sulfur, and Epsom salts. No. 146,896; Sept. 20; v. 290; p. 638.
Van Bysterveld, Anton W., Grand Rapids, Mich. General tonic. No. 146,897; Sept. 20; v. 290; p. 638.
Vanderbilt, R. T., Co., Inc., New York, N. Y. Chemical compound used as an accelerator in the preparation and manufacturing of vulcanized rubber. No. 146,898; Sept. 20; v. 290; p. 638.
Vino Medical Company, Inc., New York, N. Y. Laxative and tonic preparation. Nos. 146,899–900; Sept. 20; v. 290; p. 638.
Vivaudou, V., Inc., New York, N. Y. Toilet preparations. No. 146,901; Sept. 20; v. 290; p. 638.
Vivaudou, V., Inc., New York, N. Y. Tooth-pastes. No. 146,902; Sept. 20; v. 290; p. 638.
Voltax Company, The, Bridgeport, Conn. Ready-mixed paints and paint enamels. No. 146,903; Sept. 20; v. 290; p. 638.
Waldes & Co., Prague, Bohemia. Cigarette-paper cut to size and ready for use, portable cigarette-makers and cigarette-tubes made of paper. Nos. 146,904–5; Sept. 20; v. 290; p. 638.
Wander Company, The, Chicago, Ill. Malt extract. No. 146,906; Sept. 20; v. 290; p. 638.
Ware Shoals Mfg. Co., Ware Shoals, S. C. Cotton piece goods. No. 146,937. Sept. 20; v. 290; p. 642.
Washington Growers Packing Corporation, Vancouver, Wash. Dried fruits. No. 146,907; Sept. 20; v. 290; p. 638.
Watkins, Edwin D., Memphis, Tenn. Between-meal cake for children. No. 146,908; Sept. 20; v. 290; p. 638.
Wechsler Barber Silk Co. Inc., New York, N. Y. Women's waists, dresses, and women's silk underwear. No. 146,909; Sept. 20; v. 290; p. 638.
West Bend Equipment Co., West Bend, Wis. Platform-trucks. No. 146,910; Sept. 20; v. 290; p. 638.

Wheeling Corrugating Company, Wheeling, W. Va. Stove-pipes and stove-dampers. No. 146,938; Sept. 20; v. 290; p. 643.

Wheeling Corrugating Company, Manchester, Wheeling, W. Va. Metal ceilings and shingles and expanded metal lath. No. 146,939; Sept. 20; v. 290; p. 643.

When Clothing Company, Indianapolis, Ind. Clothing and gents' furnishing goods. No. 146,911; Sept. 20; v. 290; p. 638.

Wilder Mfg. Co. Inc., Brooklyn, N. Y. Luncheon outfit consisting of table and outer case, chairs, inner case containing metal food-container, &c. No. 146,912; Sept. 20; v. 290; p. 638.

Williams, J. B., Company, The, Glastonbury, Conn. Toilet preparations. No. 146,913; Sept. 20; v. 290; p. 638.

Wilson, J. G., Corporation, The. (See Folding Partition Company, The, assignors.)

Wright & Wright, Inc., Boston, Mass. Leather grips for golf-sticks, tennis-racket handles, and squash-racket handles. No. 146,916; Sept. 20; v. 290; p. 638.

Wright's Indian Vegetable Pill Company, New York, N. Y. Vermifuge. Nos. 146,914–15; Sept. 20; v. 290; p. 638.

Yates, John, & Co. Ltd., Birmingham, England. Spades, shovels, hoes, wedges, and ship-scrapers. No. 146,917; Sept. 20; v. 290; p. 639.

Ye Olden Times Co., New York, N. Y. Malt extracts. No. 146,918; Sept. 20; v. 290; p. 639.

Zalis, Samuel, Baltimore, Md. Work, dress, and negligée shirts. No. 146,919; Sept. 20; v. 290; p. 639.

Zaloom, S. F., & Co., New York, N. Y. Salted pistachio-nuts. No. 146,920; Sept. 20; v. 290; p. 639.

Zechnowitz, Samuel, New York, N. Y. Tea. No. 146,921; Sept. 20; v. 290; p. 639.

Zeigler, H. M., & Son, Battle Creek, Mich. Automobile, piano, and furniture polish. No. 146,922; Sept. 20; v. 290; p. 639.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Abrams, Herman C., Jackson, Miss. Gas-lamps. No. 148,256; Sept. 20; v. 290; p. 623.

American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y., and Cumberland, Md. Yarns and threads made of silk and also artificial silk. No. 148,859; Sept. 20; v. 290; p. 624.

American Cellulose & Chemical Manufacturing Company, Limited, The, New York, N. Y., and Cumberland, Md. Yarns and threads made of silk and also of artificial silk. No. 148,912; Sept. 20; v. 290; p. 624.

American Finance & Commerce Company, San Francisco, Calif. Wheat-flour. No. 148,107; Sept. 20; v. 290; p. 622.

American Finance & Commerce Company, San Francisco, Calif. Wheat-flour. No. 148,110; Sept. 20; v. 290; p. 622.

American Oil Corporation, Jackson, Mich. Lubricating oils and greases. Nos. 150,584–5; Sept. 20; v. 290; p. 628.

American Paper Goods Co., The, Kensington, Conn. Round and flat paper drinking-cups. No. 143,848; Sept. 20; v. 290; p. 611.

American Poultry Farms, Churubusco, Ind. Live poultry, eggs, and baby-chicks. No. 145,304; Sept. 20; v. 290; p. 614.

Ames, Fred W., New Orleans, La. Tooth-wash. No. 145,930; Sept. 20; v. 290; p. 615.

Amoskeag Manufacturing Company, Manchester, N. H. Bags made of cloth. Nos. 142,606–7; Sept. 20; v. 290; p. 610.

Arend, A., Drug Co., Chicago, Ill. Laxative tablets. No. 146,287; Sept. 20; v. 290; p. 616.

Ashland Tire and Rubber Company, The, Ashland, Ohio. Vehicle-tires, inner-tubes, tire-casings, &c. No. 143,907; Sept. 20; v. 290; p. 611.

Ashtabula Corrugated Box Co., The, Ashtabula, Ohio. Fiber and paper shipping-containers. No. 146,513; Sept. 20; v. 290; p. 617.

Auto-Ordnance Corporation, New York, N. Y. Shotguns, pistols, rifles, machine-guns, siege-guns, &c. No. 150,951; Sept. 20; v. 290; p. 628.

Ayer, Harriet Hubbard, New York, N. Y. Vanity-boxes. No. 146,355; Sept. 20; v. 290; p. 616.

Ayer, Harriet Hubbard, New York, N. Y. Vanity-boxes. No. 146,357; Sept. 20; v. 290; p. 616.

Ayer, Harriet Hubbard, New York, N. Y. Vanity-boxes. No. 146,359; Sept. 20; v. 290; p. 616.

Ayer, Harriet Hubbard, New York, N. Y. Vanity-boxes. No. 146,361; Sept. 20; v. 290; p. 616.

Ayer, Harriet Hubbard, New York, N. Y. Vanity-boxes. No. 146,363; Sept. 20; v. 290; p. 616.

Ayer, Harriet Hubbard, New York, N. Y. Vanity-boxes. No. 146,620; Sept. 20; v. 290; p. 617.

Ayer, Harriet Hubbard, New York, N. Y. Vanity-boxes. No. 146,622; Sept. 20; v. 290; p. 617.

B. & W. Mfg. Co., Bloomington, Ill. Poultry feeding and drinking receptacles. No. 149,209; Sept. 20; v. 290; p. 626.

Bastian-Morley Co., La Porte, Ind. Gas water-heaters. No. 151,933; Sept. 20; v. 290; p. 629.

Bengué, Jules, Paris, France. Lozenges for throat diseases. No. 133,079; Sept. 20; v. 290; p. 605.

Bennett, Fred S., Inc., New York, N. Y. Waterproof fabrics. No. 137,656; Sept. 20; v. 290; p. 607.

Bieger, Richard J., St. Louis, Mo. Serial and single cartons. No. 148,915; Sept. 20; v. 290; p. 625.

Birmingham Slag Co., Birmingham, Ala. Brick and cementitious tile. No. 147,659; Sept. 20; v. 290; p. 620.

Boericke & Runyon Co., San Francisco, and Oakland, Calif. Medicines and pharmaceutical preparations. No. 137,564; Sept. 20; v. 290; p. 607.

Brill, Alfred B., Stratford, Conn. Tooth-paste. No. 147,228; Sept. 20; v. 290; p. 618.

Burke, Frank G., New York, N. Y. Toilet-soaps. No. 149,674; Sept. 20; v. 290; p. 627.

Busbee, T. O., Chattanooga, Tenn. Coal. Nos. 147,325–6; Sept. 20; v. 290; p. 619.

Butler & Cosgrove, San Angelo, Tex. Laxative aspirin tablets for headaches, colds, la grippe, &c. No. 144,845; Sept. 20; v. 290; p. 613.

Buttermilk Sales Co., Chicago, Ill. Dried buttermilk. No. 149,577; Sept. 20; v. 290; p. 627.

Capitol Bedding Company, Washington, D. C. Mattresses. No. 145,007; Sept. 20; v. 290; p. 614.

Carpenter-Morton Company, Boston, Mass. Liquid paints, varnishes, varnish stains. No. 142,007; Sept. 20; v. 290; p. 610.

Carry-Rite Bag Company, St. Paul, Minn. Shopping-bags and paperbags. No. 147,710; Sept. 20; v. 290; p. 621.

Central Furniture Packing Company, The, Chicago, Ill. Crates, wood boxes, and cartons. No. 143,911; Sept. 20; v. 290; p. 611.

Chamberlayne, Inc., New York, N. Y. Household furniture. No. 139,253; Sept. 20; v. 290; p. 608.

Chocolats fins Zurcher S. A., Clarens-Montreux, Switzerland. Chocolate, cocoa, bonbons, &c. No. 140,165; Sept. 20; v. 290; p. 609.

City Creamery Co. Inc., Birmingham, Ala. Sweet milk, buttermilk, cream, and butter. No. 142,331; Sept. 20; v. 290; p. 610.

Cohen, N. B., Scranton, Pa. Hair-nets. No. 150,003; Sept. 20; v. 290; p. 628.

Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 149,062; Sept. 20; v. 290; p. 625.

Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. No. 149,064; Sept. 20; v. 290; p. 625.

Colgate & Company, Jersey City, N. J. Liquid and powdered perfumes. Nos. 149,067–8; Sept. 20; v. 290; p. 626.

Continental Paper & Bag Mills, New York, N. Y. Paper bags, egg-cartons, and merchandise-envelops. No. 148,480; Sept. 20; v. 290; p. 624.

Coopers Creek Chemical Company, West Conshohocken, Pa. Liquid fuel for internal-combustion engines, benzol, toluol, and naphtha. No. 127,716; Sept. 20; v. 290; p. 604.

Cord Interwoven Patch Co., The, Detroit, Mich. Rubber patches having cord interwoven therein for tire-casings and tire inner tubes. No. 145,614; Sept. 20; v. 290; p. 615.

Crassopoulos, G. C., New York, N. Y. Beans, sugar, oleo, mutton, cotton-seed and olive oils, rice, &c. No. 125,568; Sept. 20; v. 290; p. 603.

Cullinan, Harry H., Flats, Nebr. Stock gestation compound. No. 144,222; Sept. 20; v. 290; p. 612.

D. & D. Remedy Company, Chattanooga, Tenn. General medicinal tonic. No. 149,128; Sept. 20; v. 290; p. 626.

Davis, W. A. W., Corp., Newark, N. J. Felt-base floor-coverings, linoleum, oil-cloth fabrics for floors, and oil-cloths. Nos. 138,674–5; Sept. 20; v. 290; p. 608.

De Pree Chemical Company, The, Holland, Mich. Complexion powder and cream, talcum powder, toilet water, and almond cream. No. 117,647; Sept. 20; v. 290; p. 603.

Decy Iceless Express Container Co., Inc., New York, N. Y. Shipping-containers. No. 145,998; Sept. 20; v. 290; p. 616.

Dodd, William E., New York, N. Y. Cut lengths of silk and velvet ribbons. No. 127,998; Sept. 20; v. 290; p. 604.

Doyle-Kidd D. G. Co., Little Rock, Ark. Weekly and annual publications. No. 136,585; Sept. 20; v. 290; p. 607.

Du Pont-Young Corporation, Boston, Mass., and New York, N. Y. Toilet cream, lotions, powders and waters, liquid shampoo preparations, &c. No. 124,786; Sept. 20; v. 290; p. 603.

"Dynamo" Tulle Importing Company, The, New York, N. Y. Tulles, muslins, crepes, and silks in the piece, veils, veiling and nettings in the piece. No. 147,554; Sept. 20; v. 290; p. 620.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Euthola Mfg. Co., St. Louis, Mo. Face-powders, face-creams, cold-creams, hair-grower, and rouges. No. 148,380; Sept. 20; v. 290; p. 623.

Evans Builders Company, The, Uhrichsville, Ohio; Washington, D. C., and Cincinnati, Ohio. Building material. No. 146,758; Sept. 20; v. 290; p. 618.

Fairy Dye Company, Chicago, Ill. Cloth-dyes. No. 137,729; Sept. 20; v. 290; p. 608.

Ferrara, William J., Charleston, S. C. Salves for skin eruptions and sores. No. 125,615; Sept. 20; v. 290; p. 604.

Fireproof Products Co. Inc., The, New York, N. Y. Roof-coating consisting of oil and asbestos fiber and mastic roofing-cement. No. 144,715; Sept. 20; v. 290; p. 613.

Flores, Dr. Ananis, Marianna, Pa. Emulsion for influenza, palliative for venereal diseases, &c. No. 128,345; Sept. 20; v. 270; p. 605.

Garal, Dr. Frank, New York, N. Y. Oily emulsion of argenti nitras. No. 147,421; Sept. 20; v. 290; p. 619.

Gardiner-Lucas Co. Inc., The, Brooklyn, N. Y. Hollow sticks of sugar candy. Nos. 149,455–6; Sept. 20; v. 290; p. 627.

Gebrüder, Bühler, Uzwill, Switzerland. Silos. No. 148,114; Sept. 20; v. 290; p. 623.

General Coffee and Tea Company, The, Baltimore, Md. Coffee. No. 148,881; Sept. 20; v. 290; p. 624.

Gibson-Snow Co. Inc., Albany, N. Y. Salve or ointment for use in the treatment of influenza, sore throat, rheumatism, sprains, &c. No. 142,882; Sept. 20; v. 290; p. 611.

Gillette Rubber Co., Eau Claire, Wis. Rubber-tire casings. No. 146,484; Sept. 20; v. 290; p. 617.

Green and Green Company, The, Dayton, Ohio. Cheese-crackers. No. 148,066; Sept. 20; v. 290; p. 622.

Greenfield's, E., Sons, New York and Brooklyn, N. Y. Chocolate candies. No. 150,065; Sept. 20; v. 290; p. 628.

H. L. G. Manufacturing Company, Indianapolis, Ind. Shock-absorbers for motor-vehicles. No. 129,928; Sept. 20; v. 290; p. 605.

Halper, Victor, New York, N. Y. Medicinal preparation. No. 139,270; Sept. 20; v. 290; p. 608.

Heine Safety Boiler Co., St. Louis, Mo. Water-tube boilers. Nos. 151,794–6; Sept. 20; v. 290; p. 629.

Hesseberg, Magnus, Inc., Richmond, Va. Sole and harness leather. No. 147,161; Sept. 20; v. 290; p. 618.

Hicks-Fuller Company, Sioux City, Iowa. Cotton piece goods. No. 151,160; Sept. 20; v. 290; p. 629.

Hongland, Wm. W., D. D. S., San Francisco, Calif. Medicinal preparation to be used as a dentifrice for treatment of pyorrhea, etc. No. 144,861; Sept. 20; v. 290; p. 613.

Holland Mfg. Co., New York, N. Y. Sewing-thread for hand, machine, and embroidery work. Nos. 148,798–9; Sept. 20; v. 290; p. 624.

Hollingshead, R. M., Co., The, Camden, N. J. Mohair-top-patching, leather-top-patching, and pantascope-top-patching adhesive outfits, &c. No. 149,135; Sept. 20; v. 290; p. 626.

Holtzclaw, Thomas A., Montgomery, Ala. Mattresses, pillows, pads, &c. No. 145,336; Sept. 20; v. 290; p. 614.

Hood, H. P., & Sons, Inc., Boston, Mass. Milk, cream, butter, cheese, eggs, &c. No. 136,296; Sept. 20; v. 290; p. 606.

Hooper, Wm. E., & Sons Co., Baltimore, Md. Woven, &c., beltings, hose, fire-hose, filter-tubing, &c. No. 147,723; Sept. 20; v. 290; p. 621.

Ingraham, Langley, Philadelphia, Pa. Liquid preservation coating for automobile-tires. No. 142,215; Sept. 20; v. 290; p. 610.

International Standard Exporting Corporation, New York, N. Y. Cotton piece goods, silks, suitings, ducks, &c. No. 148,075; Sept. 20; v. 290; p. 622.

Irvin-Smith Co., Chicago, Ill. Lip-sticks, nail-polish, and incense. No. 131,333; Sept. 20; v. 290; p. 605.

J. L. Aircraft Corporation, New York, N. Y. Aeroplanes. No. 138,530; Sept. 20; v. 290; p. 608.

Jacob Brothers, Torrington, Conn. Candy and chocolate bars. No. 149,755; Sept. 20; v. 290; p. 627.

Jenkins, Lawrence W., Greensboro, N. C. Laxative tablet. No. 143,440; Sept. 20; v. 290; p. 611.

Jordan Marsh Company, Boston, Mass. Tie-twist silk. No. 151,010; Sept. 20; v. 290; p. 629.

K. & G. Laboratories Co., Chicago, Ill. Egg-preservative. No. 149,080; Sept. 20; v. 290; p. 626.

Kozlowski, Boleslaw R., Chicago, Ill. Ferrated bitter wine to be used as a general tonic. No. 141,784; Sept. 20; v. 290; p. 609.

Krasnow, R., & Sons, Inc., Pittsburgh, Pa. Fresh grapes. No. 150,017; Sept. 20; v. 290; p. 628.

Kuehn, Charles A., St. Louis, Mo. Baskets, galvanized-tin cemetery-vases, paper boxes for flowers, and tubs for growing flowers. No. 145,693; Sept. 20; v. 290; p. 615.

Lawrence Textile Co., New York, N. Y. Lawns in the piece. Nos. 147,519–21; Sept. 20; v. 290; p. 620.

Lehrer, John P., Belmont Park, N. Y. Automobile-vans and motor-trucks. No. 148,941; Sept. 20; v. 290; p. 625.

Lightning Sales Corporation, New York, N. Y. Demountable wheel-rims, brake-shoes, and radiator-shutters. No. 147,729; Sept. 20; v. 290; p. 621.

Lisiecki, Peter P., Detroit, Mich. Bread. No. 147,928; Sept. 20; v. 290; p. 621.

Loraine Zinc Company, Chicago, Ill. Zinc oxid. No. 148,029; Sept. 20; v. 290; p. 622.

Macaroni Foods Corporation, Omaha, Nebr. Macaroni and spaghetti sealed in paper cartons, also egg-noodles. No. 148,847; Sept. 20; v. 290; p. 624.

Magland, Solomon, assignor to Victory Pharmacal Co., Chicago, Ill. Ointment for the treatment of sunburn, tan, freckles, pimples, and for beautifying and softening the skin. No. 147,633; Sept. 20; v. 290; p. 620.

Marland Refining Company, Ponca City, Okla. Gasolene, naphtha, kerosene, &c. No. 137,537; Sept. 20; v. 290; p. 607.

Marsh, Frederick A., New York, N. Y. Lubricating-oils for motors. No. 146,493; Sept. 20; v. 290; p. 617.

Marshall Field & Company, Chicago, Ill. Apparel fabrics. No. 141,366; Sept. 20; v. 290; p. 609.

Marshall Field & Company, Chicago, Ill. Sheets and pillow-cases. No. 140,288; Sept. 20; v. 290; p. 609.

Mason, Au & Magenheimer Confectionery Manufacturing Company, Brooklyn, N. Y. Candies. Nos. 149,014–5; Sept. 20; v. 290; p. 625.

Mason, John D., Chicago, Ill. Antiseptic, germicide, and medicinal treatment for pyorrhea. No. 144,585; Sept. 20; v. 290; p. 613.

McDonald Bros. Co., Minneapolis, Minn. Lace curtains, draperies, blankets, &c. No. 125,902; Sept. 20; v. 290; p. 604.

Meeth, Arle A., Portland, Mich. Laundry soap. No. 148,447; Sept. 20; v. 290; p. 623.

Meyer, Adolph C., Trust Estate of, Baltimore, Md. Medicinal preparations in liquid and dry form. No. 144,165; Sept. 20; v. 290; p. 612.

Meyer, Adolph C., Trust Estate of, Baltimore, Md. Medicinal preparations in liquid and dry form. No. 144,240; Sept. 20; v. 290; p. 612.

Meyer, Adolph C., Trust Estate of, Baltimore, Md. Medicinal preparations in liquid and dry form. No. 144,345; Sept. 20; v. 290; p. 612.

Meyer, Adolph C., Trust Estate of, Baltimore, Md. Medicinal preparations in liquid and dry form. No. 144,400; Sept. 20; v. 290; p. 613.

Meyer, Adolph C., Trust Estate of, Baltimore, Md. Medicinal preparations in liquid and dry form. (No. 144,482; Sept. 20; v. 290; p. 613.

Meyer, Adolph C., Trust Estate of, Baltimore, Md. Liniment for the relief of various bodily ailments, such as rheumatism, neuralgia, &c. No. 144,548; Sept. 20; v. 290; p. 613.

Miczulene, Mere, Bridgeport, Conn. General medicinal tonic. Nos. 147,973–4; Sept. 20; v. 290; pp. 621–2.

Mill and Mine Supply Co., Seattle, Wash. Blacksmith-coal. No. 133,667; Sept. 20; v. 290; p. 606.

Millbrook Woolen Mills, New York, N. Y. Woolen and cotton piece goods. No. 141,955; Sept. 20; v. 290; p. 610.

Millers Milling Company, The, Enid, Okla. Wheat-flour. No. 147,444; Sept. 20; v. 290; p. 619.

Morrell, John, & Company, Ottumwa, Iowa. Bacon, fresh pork, and fresh sausage. No. 147,366; Sept. 20; v. 290; p. 619.

Navajo Laboratories, Inc., Caspar, Wyo. Radiator compound. No. 146,461; Sept. 20; v. 290; p. 617.

Needham Products Company, The, Cleveland, Ohio. Laxative. No. 143,615; Sept. 20; v. 290; p. 611.

Nelson, Mads, Canton, Ohio. Medicinal preparation for the treatment of rheumatism. No. 143,570; Sept. 20; v. 290; p. 611.

Noll-Welty Lumber Company, The, Kansas City, Mo. Shingles, roofing-paper, building-paper, and wallboard. No. 125,010; Sept. 20; v. 290; p. 603.

Parker, Mrs. Beulah, Chicago, Ill. Hair-growers. No. 136,528; Sept. 20; v. 290; p. 607.

Parker, Nella, Oakland, Calif. Preparation for the removal of superfluous hair from the human face and body. No. 134,974; Sept. 20; v. 290; p. 606.

Paton, Calvert, & Co. Limited, Liverpool, England. Boxes and the like, containers made of cardboard, &c. No. 145,752; Sept. 20; v. 290; p. 615.

Payne, William M., Ashdown, Ark. General tonic. No. 147,259; Sept. 20; v. 290; p. 618.

Peabody, Henry W., & Co., New York, N. Y. Garnet Lac. No. 141,844; Sept. 20; v. 290; p. 610.

Pectin Sales Co. Inc., Rochester, N. Y. Concentrated fruit pectin. No. 149,354; Sept. 20; v. 290; p. 626.

Penn Rivet Corporation, Philadelphia, Pa. Hair-nets. No. 151,287; Sept. 20; v. 290; p. 629.

Penn Rivet Corporation, Philadelphia, Pa. Hair-nets. No. 151,374; Sept. 20; v. 290; p. 629.

Petersen, Evelyn L., Oakland, Calif. Facial cream for the treatment of large pores, pimples, blackheads, &c. No. 144,982; Sept. 20; v. 290; p. 614.

Petoskey Portland Cement Co., Dover, Del. Portland cement. No. 146,659; Sept. 20; v. 290; p. 617.

Pioneer Creamery Co., Galesburg, Ill. Butter. No. 148,238; Sept. 20; v. 290; p. 623.

Ressler, Isidore, Detroit, Mich. Deodorant and disinfectant. No. 129,417; Sept. 20; v. 290; p. 605.

Rhyne, Wayne F., Rome, Ga. General tonic. No. 134,090; Sept. 20; v. 290; p. 606.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Robinson, Edward D., Baltimore, Md. Cocoanut-oil shampoo, brilliantine, bandoline, lip-pomade, &c. No. 145,797; Sept. 20; v. 290; p. 615.
Rolshausen, John F., Logansport, Ind. Automobile-body polish. No. 135,618; Sept. 20; v. 290; p. 606.
Rook, James H., Co., Chicago, Ill. Gift-boxes. No. 146,184; Sept. 20; v. 290; p. 616.
Rutkay, Michael, Philadelphia, Pa. Medicine for asthma. No. 146,270; Sept. 20; v. 290; p. 616.
Scintilla, Canton of Solothurn, Switzerland. Petroleum and oil lamps, lanterns, ventilators, &c. No. 136,045; Sept. 20; v. 290; p. 606.
Security Mills & Feed Company, Knoxville, Tenn. Poultry feed. No. 148,171; Sept. 20; v. 290; p. 623.
Sewell, Joseph W., Hot Springs, Ark. Preparation used in the treatment of rheumatism. No. 147,369; Sept. 20; v. 290; p. 619.
Southern Coal & Coke Company, The, Knoxville, Tenn. Coal. No. 128,026; Sept. 20; v. 290; p. 604.
Standard Chemical Works, Reading and Womelsdorf, Pa. Insecticides, deodorants, germicides, and disinfectants. No. 144,104; Sept. 20; v. 290; p. 612.
Standard Oil Company, Bayonne, N. J. Mineral oil primarily used in the preparation of cold-cream. No. 148,563; Sept. 20; v. 290; p. 624.
Standard Oil Company of New York, New York, N. Y. Petroleum products for lubricating, illuminating, heating, and power purposes. No. 150,776; Sept. 20; v. 290; p. 628.
Statite Waterproofing Products Co. Inc., Wilmington, Del., and New York, N. Y. Waterproofing liquid for leather and leather substitutes, textile-fabrics, tents, auto and buggy tops, &c. No. 149,359; Sept. 20; v. 290; p. 626.
Stoner, Fannie B., Providence, Ky. Hair-grower. No. 144,053; Sept. 20; v. 290; p. 612.
Sussman Wormser & Co., San Francisco, Calif. Canned fruits, vegetables, and oysters, vinegar, coffee, tea, spice, &c. No. 138,613; Sept. 20; v. 290; p. 608.
Templeton Coal Company, Sullivan and Glendara Mine, Ind. Coal. No. 144,991; Sept. 20; v. 290; p. 614.
Texas Company, The, Houston, Tex. Burning-oils. No. 135,460; Sept. 20; v. 290; p. 606.
Thomson-Diggs Company, The, Sacramento, Calif. Stoves, gas hot-plates, and stovepipe. No. 148,181; Sept. 20; v. 290; p. 623.
Vaycide Chemical Corporation, Birmingham, Ala. Medicinal preparation for poultry to stimulate egg-laying. No. 147,483; Sept. 20; v. 290; p. 619.
Vaycide Chemical Corporation, Birmingham, Ala. Medicinal preparation for treatment of diseases of poultry and to stimulate egg-laying. No. 147,486; Sept. 20; v. 290; p. 620.
Vick, Albert F. W., Philadelphia, Pa. Material for filling cavities in trees. No. 133,235; Sept. 20; v. 290; p. 605.
Victory Pharmacal Co. (See Magland, Solomon, assignor.)
Vinson Coffee Co., Jackson, Tenn. Coffee. No. 149,531; Sept. 20; v. 290; p. 627.
Walinder, Mathilda, Chicago, Ill. Antiseptic healing-salve. No. 131,681; Sept. 20; v. 290; p. 605.
Wallace Milling Company, The, Dales, Ind. Wheat-flour. No. 147,068; Sept. 20; v. 290; p. 618.
Ward Baking Company, New York, N. Y. Cakes. No. 119,259; Sept. 20; v. 290; p. 603.
Warren Brothers Company, Boston, Mass. Pavements and paving materials containing bituminous matter. No. 151,602; Sept. 20; v. 290; p. 629.
Warschauer & Roth, New York, N. Y. Ladies' handbags. No. 148,782; Sept. 20; v. 290; p. 624.
Weidler, Francis B., Los Angeles, Calif. Hair-tonic. No. 145,662; Sept. 20; v. 290; p. 615.
Wickwire Spencer Steel Corporation, Worcester, Mass. Bag and twine holders, milk-jar carriers, pie-racks, and waste-paper baskets. No. 147,146; Sept. 20; v. 290; p. 618.
Williams, Lewis L., East Boston, Mass. Hair-tonic. No. 140,359; Sept. 20; v. 290; p. 600.
Williamson Candy Co., Chicago, Ill. Candy. No. 150,085; Sept. 20; v. 290; p. 628.
Winthrop Chemical Company, Inc., New York, N. Y. Antiseptic medical substance in powdered form. No. 136,217; Sept. 20; v. 290; p. 606.
Winton Company, The, Cleveland, Ohio. Automobiles, motor-trucks. No. 139,488; Sept. 20; v. 290; p. 609.
Ziegler, George Co., Milwaukee, Wis. Candles. No. 149,844; Sept. 20; v. 290; p. 627.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 20TH DAY OF SEPTEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adding-machine. W. J. Pasinski. No. 1,391,072; Sept. 20; v. 290; p. 459.
Aeration-cell. G. C. Riser, Jr. No. 1,391,078; Sept. 20; v. 290; p. 460.
Aeroplane. C. Arnesen. No. 1,391,443; Sept. 20; v. 290; p. 534.
Agricultural implement. J. Mader. No. 1,391,264; Sept. 20; v. 290; p. 498.
Agricultural implement. S. Szucs. No. 1,391,023; Sept. 20; v. 290; p. 448.
Agricultural system. G. A. Case. No. 1,391,169; Sept. 20; v. 290; p. 478.
Air-brake apparatus. J. M. Readey. No. 1,391,404; Sept. 20; v. 290; p. 526.
Air control, Auxiliary. D. M. White. No. 1,391,032; Sept. 20; v. 290; p. 450.
Air-cooler. W. H. Stone. No. 1,391,592; Sept. 20; v. 290; p. 564.
Aircraft. N. Woyevodsky. No. 1,391,355; Sept. 20; v. 290; p. 516.
Airship. J. Heppel. No. 1,390,993; Sept. 20; v. 290; p. 442.
Alarm: *See*—
Lock-alarm. Tire-alarm.
Alkali salts of oxidized protalbinic acid and of oxidized lysalbinic acid as stable protective colloids for mercury compounds. M. E. Wolvekamp. No. 1,391,154; Sept. 20; v. 290; p. 475.
Alloy, High-carbon steel-iron. J. R. Speer. No. 1,391,215; Sept. 20; v. 290; p. 487.
Aluminum salts, Production of. C. A. Doremus. No. 1,391,172; Sept. 20; v. 290; p. 479.
Anchor, Motometer-. W. J. Ashton. No. 1,390,975; Sept. 20; v. 290; p. 439.
Animal and bird trap. W. Nawracaj and W. Jarosz. No. 1,391,489; Sept. 20; v. 290; p. 543.
Antiskid device. O. S. Pulliam. No. 1,391,342; Sept. 20; v. 290; p. 514.
Arch-support. W. N. Sechler. No. 1,391,584; Sept. 20; v. 290; p. 563.
Article of manufacture. G. Sykes. No. 1,391,428; Sept. 20; v. 290; p. 531.
Artist's color-box. C. N. Werntz. No. 1,391,028; Sept. 20; v. 290; p. 450.
Ash-separator. H. T. Emery. No. 1,391,178; Sept. 20; v. 290; p. 480.
Ash-sifter. G. H. Peters and R. E. Shoars. No. 1,391,073; Sept. 20; v. 290; p. 459.
Automatic releasing-coupling. E. J. Solomon. No. 1,391,422; Sept. 20; v. 290; p. 430.
Automatic switch. D. W. Carlson. No. 1,391,167; Sept. 20; v. 290; p. 478.
Automatic wrench. G. E. Roberts. No. 1,391,581; Sept. 20; v. 290; p. 562.
Automobile caution-signal. A. J. Jones. No. 1,391,120; Sept. 20; v. 290; p. 468.
Automobile-headlight. G. A. Wendt. No. 1,391,229; Sept. 20; v. 290; p. 490.
Automobile-lamp closures, Fastening for. E. A. Kuen. No. 1,391,327; Sept. 20; v. 290; p. 511.
Automobile-lock. C. Knapp. No. 1,391,390; Sept. 20; v. 290; p. 523.
Automobile-radiator. C. A. Marien. No. 1,391,485; Sept. 20; v. 290; p. 542.
Automobile-radiator. C. A. Marien. No. 1,391,486; Sept. 20; v. 290; p. 542.
Automobile-radiator. W. Phillips. No. 1,391,500; Sept. 20; v. 290; p. 545.
Automobile-radiator heater. U. V. O'Daniel. No. 1,391,270; Sept. 20; v. 290; p. 490.
Automobile-signal. H. C. Anderson. No. 1,391,523; Sept. 20; v. 290; p. 551.
Automobile-signal-controlling device. W. L. Beach. No. 1,391,360; Sept. 20; v. 290; p. 517.
Automobile trucks or tractors, Power-delivering attachment for. L. Haubert. No. 1,391,109; Sept. 20; v. 290; p. 466.
Automobiles, Curtain-support for. G. W. Scott. No. 1,391,417; Sept. 20; v. 290; p. 529.
Automobiles, Driving mechanism for. L. L. Custer. No. 1,391,098; Sept. 20; v. 290; p. 464.
Auto-signal. W. M. Howell. No. 1,391,383; Sept. 20; v. 290; p. 522.
Bail-ear and bail. J. F. Lamb. No. 1,391,257; Sept. 20; v. 290; p. 496.
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ALPHABETICAL LIST OF DESIGNS.

Advertising-sign. J. T. Aultman. No. 59,055; Sept. 20; v. 290; p. 578.
Beverage-dispensing apparatus. J. M. Travis. Nos. 591,136–8; Sept. 20; v. 290; p. 595.
Bottle. E. Duke. No. 59,071; Sept. 20; v. 290; p. 581.
Chest, Clothes-. G. E. Bergstrom. Nos. 59,057–9; Sept. 20; v. 290; pp. 578–9.
Display-rack. E. Allen. No. 59,053; Sept. 20; v. 290; p. 578.
Displaying articles of merchandise, Stand for. L. A. Samstag. No. 59,130; Sept. 20; v. 290; p. 594.
Dust-pan. O. Scalise. No. 59,131; Sept. 20; v. 290; p. 594.
Electric heating unit, Radiant. M. H. Shoenberg. No. 59,133; Sept. 20; v. 290; p. 594.
Electric plate. L. R. Hamlin. No. 59,078; Sept. 20; v. 290; p. 582.
Feed-through switch. J. B. Downing. No. 59,070; Sept. 20; v. 290; p. 581.
Fence, Wire. A. G. Johnson. No. 59,119; Sept. 20; v. 290; p. 592.
Glass goblet or similar article, Surface ornamentation for. J. W. Groves. No. 59,077; Sept. 20; v. 290; p. 582.
Handle. P. M. Marks. No. 59,122; Sept. 20; v. 290; p. 592.
Hooks, Blade for grass-. H. S. Earle. No. 59,072; Sept. 20; v. 290; p. 581.
Ignition-wire manifold. C. E. Hendricks. Nos. 59,080–6; Sept. 20; v. 290; pp. 583–4.
Kitchen-tool. C. L. Graves. No. 59,076; Sept. 20; v. 290; p. 582.
Lamp. C. W. La Roche. No. 59,121; Sept. 20; v. 290; p. 592.
Lamp. J. I. Papale and G. Campbell. No. 59,061; Sept. 20; v. 290; p. 579.
Lamp. H. H. Wolter. Nos. 59,169–70; Sept. 20; v. 290; p. 602.
Lamp-base, Portable. S. R. Schwartz. No. 59,132; Sept. 20; v. 290; p. 594.
Lamp sockets, Chain-pull for electrical-. L. R. Allen. No. 59,054; Sept. 20; v. 290; p. 578.
Lamps, Support for. H. H. Wolter. No. 59,168; Sept. 20; v. 290; p. 602.
Lighting-fixture. S. G. Hibben. No. 59,087; Sept. 20; v. 290; p. 584.
Lighting-fixtures, Arm of a wall-bracket for. H. Cohn. No. 59,063; Sept. 20; v. 290; p. 580.
Mousetrap, Self-setting. L. Romanson. No. 59,129; Sept. 20; v. 290; p. 594.
Paper-cutter or similar article, Frame for a. A. G. Danielson. No. 59,064; Sept. 20; v. 290; p. 580.
Reflector. R. B. Benjamin. No. 59,056; Sept. 20; v. 290; p. 578.
Staff-head. H. J. Gallagher. No. 59,074; Sept. 20; v. 290; p. 582.
Talcum-powder box. J. M. Hothersall. Nos. 59,088–118; Sept. 20; v. 290; pp. 584–91.
Tire. R. S. Trogner. Nos. 59,139–67; Sept. 20; v. 290; pp. 595–602.
Tire-casing. E. A. Reid. No. 59,128; Sept. 20; v. 290; p. 593.
Tire lock for automobiles, Spare-. E. E. Chapman. No. 59,092; Sept. 20; v. 290; p. 579.
Tire-tread. W. M. Doucette. Nos. 59,065–9; Sept. 20; v. 290; pp. 580–1.
Tire-tread. S. T. Ehrlich. No. 59,073; Sept. 20; v. 290; p. 581.
Tire-tread. C. T. Gardner. No. 59,075; Sept. 20; v. 290; p. 582.
Tire-tread. K. Kurose. No. 59,120; Sept. 20; v. 290; p. 592.
Tire-tread. W. J. Murphy. No. 59,124–5; Sept. 20; v. 290; p. 593.
Tire tread, Cushion-. C. Soderlund. No. 59,134; Sept. 20; v. 290; p. 594.
Toilet-chair. A. L. Morton. No. 59,126; Sept. 20; v. 290; p. 593.
Toothbrush. J. E. Perrault. No. 59,127; Sept. 20; v. 290; p. 593.
Toy, Revolving-disk display. H. C. Block. No. 59,060; Sept. 20; v. 290; p. 579.
Urn, Coffee-. T. J. Topper. No. 59,135; Sept. 30; v. 290; p. 595.
Valve, Casing for a radiator air-. P. Mirk. No. 59,123; Sept. 20; v. 290; p. 592.
Washboard, Hand-. W. A. Harwi. No. 59,079; Sept. 20; v. 290; p. 582.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Acid, Sulfuric. Southern Agricultural Chemical Corporation. No. 146,880; Sept. 20; v. 290; p. 637.
Anesthetics, Local. Novocol Chemical M'f'g. Co. No. 146,826; Sept. 20; v. 290; p. 636.
Automobile, piano, and furniture polish. H. M. Zeigler & Son. No. 146,922; Sept. 20; v. 290; p. 639.
Automobile, piano, furniture, &c., polish. Noxal Polish Manufacturing Company. No. 146,825; Sept. 20; v. 290; p. 636.
Bags, Burlap, jute, and cotton. H. Chesler. No. 146,711; Sept. 20; v. 290; p. 632.
Bark from which tanning substances are made. Harold M. McArthur & Co. Limited. No. 146,803; Sept. 20; v. 290; p. 635.
Bats, Baseball-. Hillerich & Bradsby Co. No. 146,767; Sept. 20; v. 290; p. 634.
Batteries, Electric. Stuart Products Corporation. No. 146,888; Sept. 20; v. 290; p. 638.
Bedspreads. Marshall Field & Company. Nos 146,814–5; Sept. 20; v. 290; p. 635.
Belting, Canvas. Chesapeake Belting Company. No. 146,710; Sept. 20; v. 290; p. 632.
Beverage, Alcoholic. A. Freixas. No. 146,744; Sept. 20; v. 290; p. 633.
Beverage and syrup for making same, Non-alcoholic. Gray-Juergens Co. No. 146,754; Sept. 20; v. 290; p. 634.
Beverages, Non-alcoholic. B. Schriro. No. 146,862; Sept. 20; v. 290; p. 637.
Beverages, Non-alcoholic, maltless. Chatham Bottling Company. No. 146,708; Sept. 20; v. 290; p. 632.
Biscuit and crackers, Soda. J. B. Carr Biscuit Co. No. 146,705; Sept. 20; v. 290; p. 632.
Blood-purifier, Vegetable. W. S. Burkhart. No. 146,700; Sept. 20; v. 290; p. 632.
Blowpipes. Torchweld Equipment Company. No. 146,892; Sept. 20; v. 290; p. 638.
Boots and shoes. Sterling Shoes Corporation. No. 146,887; Sept. 20; v. 290; p. 638.
Boots and shoes, Leather. Florsheim Shoe Company. No. 146,727; Sept. 20; v. 290; p. 633.
Bread. A. Koment. No. 146,793; Sept. 20; v. 290; p. 635.
Brooms. Truby Broom Mfg. Co. No. 146,893; Sept. 20; v. 290; p. 638.
Brushes, Hair, clothes, tooth, and nail. Fiberloid Corporation. No. 146,734; Sept. 20; v. 290; p. 633.
Brushes, Paint-. James B. Day & Co. No. 146,724; Sept. 20; v. 290; p. 633.
Cake for children. E. D. Watkins. No. 146,908; Sept. 20; v. 290; p. 638.
Cake, wafers, pancake-flour. Diamond Pure Food Company. No. 146,726; Sept. 20; v. 290; p. 633.
Calcimine compounds. Riches, Piver & Co. No. 146,840; Sept. 20; v. 290; p. 636.
Candies. Liberty Candy Company. No. 146,801; Sept. 20; v. 290; p. 635.
Candies, chocolates, fruit confections. J. G. McDonald Chocolate Co. No. 146,804; Sept. 20; v. 290; p. 635.
Candy. Hawley & Hoops. No. 146,765; Sept. 20; v. 290; p. 634.
Candy. Howard H. Hoyt Candy Co. No. 146,775; Sept. 20; v. 290; p. 634.
Candy. King Candy Co. No. 146,788; Sept. 20; v. 290; p. 635.
Candy. Liberty Orchards Company. No. 146,802; Sept. 20; v. 290; p. 635.
Candy. McKusick-Towle & Company. No. 146,805; Sept. 20; v. 290; p. 635.
Candy. J. L. Newbold. No. 146,823; Sept. 20; v. 290; p. 636.
Candy. Package Confectionery Company. No. 146,932; Sept. 20; v. 290; p. 642.
Candy. Snoehr's. Nos. 146,882–4; Sept. 20; v. 290; pp. 637–8.
Candy, Butter-scotch. W. J. Kelleher. No. 146,785; Sept. 20; v. 290; p. 634.
Candy, peanuts, and popcorn. A. H. Burt. No. 146,701; Sept. 20; v. 290; p. 632.
Canned fruit. J. C. Ainsley Packing Co. No. 146,666; Sept. 20; v. 290; p. 631.
Canned fruits and vegetables. M. Schuckl. No. 146,866; Sept. 20; v. 290; p. 637.
Canned fruits and vegetables, condiments, coffee. Peyton-Palmer Co. No. 146,838; Sept. 20; v. 290; p. 636.
Cantaloups and lettuce. Fruit Distributors Service Co. No. 146,746; Sept. 20; v. 290; p. 633.
Carriages, Baby-. Bloch Go-Cart Company. No. 146,692; Sept. 20; v. 290; p. 632.
Cement for pipe-joints and for stopping leaks in steam, &c., containers. Smooth-On Manufacturing Company. No. 146,877; Sept. 20; v. 290; p. 637.
Cereal, Wheat. Package Confectionery Company. No. 146,831; Sept. 20; v. 290; p. 636.
Chemicals, Certain. California Alkali Company. No. 146,702; Sept. 20; v. 290; p. 632.
Chocolates. Shoot Chocolate Company. No. 146,867; Sept. 20; v. 290; p. 637.
Cigarette papers and mouthpieces. Turmac Turkish Macedonian Tobacco Company. No. 146,894; Sept. 20; v. 290; p. 638.
Cigars. Commonwealth Cigar Co. No. 146,716; Sept. 20; v. 290; p. 632.
Clothing. Franklin Simon Co. No. 146,870; Sept. 20; v. 290; p. 637.
Clothing. J. Schoeneman, Incorporated. No. 146,865; Sept. 20; v. 290; p. 637.
Clothing and gents' furnishing goods. When Clothing Company. No. 146,911; Sept. 20; v. 290; p. 638.
Clothing, Articles of. D. Ades. No. 146,665; Sept. 20; v. 290; p. 631.
Clothing, Certain articles of. Commercial Trading Company. Nos. 146,712–15; Sept. 20; v. 290; p. 632.
Clothing, Men's. American Fashion Clothes. No. 146,671; Sept. 20; v. 290; p. 631.
Cloths and fabrics in the piece, Certain. American Cellulose & Chemical Manufacturing Company. No. 146,669; Sept. 20; v. 290; p. 631.
Coffee. Davidson-Lake Tea and Coffee Co. No. 146,722; Sept. 20; v. 290; p. 633.
Coffee and rice, Package. J. N. Jentz. No. 146,777; Sept. 20; v. 290; p. 634.
Coffee substitute. Delisco Corporation. No. 146,925; Sept. 20; v. 290; p. 641.
Color, Butter-. Chr. Hansen's Laboratory. No. 146,762; Sept. 20; v. 290; p. 634.
Colors, Food-. Chr. Hansen's Laboratory. No. 146,763; Sept. 20; v. 290; p. 634.
Concrete floors, Hardening and waterproofing liquid for treating. La-Lo Chemical Company. No. 146,797; Sept. 20; v. 290; p. 635.
Cotton-duck piece goods. Marshall Field & Company. No. 146,812; Sept. 20; v. 290; p. 635.
Cotton piece goods. H. A. Tappen. No. 146,891; Sept. 20; v. 290; p. 638.
Cotton piece goods. Ware Shoals Mfg. Co. No. 146,937; Sept. 20; v. 290; p. 642.
Crackers. Green and Green Company. No. 146,928; Sept. 20; v. 290; p. 641.
Cream-tartar, baking-soda, sulfur, Epsom salts. Twitchell-Champlin Company. No. 146,896; Sept. 20; v. 290; p. 638.
Creams, toilet waters, &c., Cold and vanishing. E. D. Schneider. No. 146,864; Sept. 20; v. 290; p. 637.
Culinary preparation, Concentrated. Marmite Food Extract Co. No. 146,810; Sept. 20; v. 290; p. 635.
Disinfectants. L. W. Kjaer. No. 146,790; Sept. 20; v. 290; p. 635.
Doughnuts. T. J. O'Leary. No. 146,828; Sept. 20; v. 290; p. 636.
Dresses, rompers, hats, underwear, Children's. M. Perfect. No. 146,837; Sept. 20; v. 290; p. 636.
Drills, Electric hand-. Knight Engineering & Sales Co. No. 146,791; Sept. 20; v. 290; p. 635.
Dye, Straw-hat. Boston Blacking Company. Nos. 146,693–4; Sept. 20; v. 290; p. 632.
Eczema, Cream for. W. H. Moore. No. 146,818; Sept. 20; v. 290; p. 635.
Electrically-lighted signals and parts thereof. O. Kroehle. No. 146,795; Sept. 20; v. 290; p. 635.
Enamels, Vitreous and porcelain. Porcelain Enamel and Manufacturing Company, Baltimore. No. 146,847; Sept. 20; v. 290; p. 636.
Fabrics in the piece, Pile. Salt's Textile Manufacturing Company. No. 146,858; Sept. 20; v. 290; p. 637.
Farm, &c., tools. American Fork & Hoe Company. No. 146,672; Sept. 20; v. 290; p. 631.
Filter-stones and filters, Tripoli. American Tripoli Company. Nos. 146,676–7; Sept. 20; v. 290; p. 631.
Fire doors and shutters, Metal. F. L. Saino Manufacturing Co. No. 146,857; Sept. 20; v. 290; p. 637.
Flannel. Kelsall & Kemp. No. 146,787; Sept. 20; v. 290; p. 635.
Flavoring-vanilla. Gibson Commercial Co. No. 146,750; Sept. 20; v. 290; p. 633.
Flour, Pancake-. Pillsbury Flour Mills Company. No. 146,933; Sept. 20; v. 290; p. 642.
Flour, Wheat-. Moundridge Milling Co. No. 146,820; Sept. 20; v. 290; p. 636.
Flour, Wheat-. Richland Milling Company. No. 146,853; Sept. 20; v. 290; p. 637.
Flue-linings. Malleable Iron Range Company. No. 146,807; Sept. 20; v. 290; p. 635.
Food and food ingredients. A. Engelhard & Sons Company. No. 146,732; Sept. 20; v. 290; p. 633.
Food, Cereal breakfast. Marshall Canning Co. No. 146,931; Sept. 20; v. 290; p. 642.
Fruit, Fresh deciduous. Plummer & Edwins. No. 146,841; Sept. 20; v. 290; p. 636.
Fruits. Garcia & Maggini Co. No. 146,747; Sept. 20; v. 290; p. 633.

Fruits, Dried. Washington Growers Packing Corporation. No. 146,907; Sept. 20; v. 290; p. 638.
Fruits, Fresh citrus. Anaheim Citrus Fruit Association. No. 146,679; Sept. 20; v. 290; p. 631.
Fruits, Fresh citrus. Dade City Packing Co. No. 146,721; Sept. 20; v. 290; p. 632.
Game-board, Military. A. Frankenstein. No. 146,743; Sept. 20; v. 290; p. 633.
Gasolene and kerosene. Hammer & Co. No. 146,760; Sept. 20; v. 290; p. 634.
Gasolene, Chemical preparation for intensifying. J-R Products Company. No. 146,783; Sept. 20; v. 290; p. 634.
Gingham piece goods. Boston Manufacturing Company, 1901. No. 146,695; Sept. 20; v. 290; p. 632.
Goiter reducer or treatment. W. T. Kelley. No. 146,786; Sept. 20; v. 290; p. 635.
Golf-stick leather grips, racket-handles. Wright & Wright. No. 146,916; Sept. 20; v. 290; p. 638.
Grapes, Vaporised. T. W. W. Forrest. No. 146,739; Sept. 20; v. 290; p. 633.
Gum, Chewing-. Amboy Products Co. No. 146,668; Sept. 20; v. 290; p. 631.
Hair and scalp tonic. L. Simmons. No. 146,860; Sept. 20; v. 290; p. 637.
Hair-dressing. Hyman & Oppenheim. No. 146,776; Sept. 20; v. 290; p. 634.
Hair preparation. S. Posmantier. No. 146,848; Sept. 20; v. 290; p. 636.
Hair-restorer. J. W. Jones. No. 146,781; Sept. 20; v. 290; p. 634.
Hair-tonic. G. Buonaiuto. No. 146,698; Sept. 20; v. 290; p. 632.
Halters, surcingles, girths, &c. The Russell Manufacturing Company. No. 146,856; Sept. 20; v. 290; p. 637.
Heaters, Hot-water. Flash Hot Water Heater Co. No. 146,736; Sept. 20; v. 290; p. 633.
Honey. R. D. Bradshaw. No. 146,696; Sept. 20; v. 290; p. 632.
Ice-making and refrigerator machinery. Remington Machine Company. No. 146,852; Sept. 20; v. 290; p. 637.
Journal published monthly. Edward Lyman Bill, Inc. No. 146,924; Sept. 20; v. 290; p. 641.
Jute and cotton bats. Stearns & Foster Company. No. 146,885; Sept. 20; v. 290; p. 638.
Kerosene. Sinclair Refining Company. No. 146,875; Sept. 20; v. 290; p. 637.
Laxative and tonic preparation. Vino Medical Company. Nos. 146,899–900; Sept. 20; v. 290; p. 638.
Laxative, Fruit. Candi-Lax Mfg. Co. No. 146,703; Sept. 20; v. 290; p. 632.
Leather. Friedlander Leather Co. No. 146,745; Sept. 20; v. 290; p. 633.
Leather or like supports, Flexible non-metallic. A. E. Block. No. 146,691; Sept. 20; v. 290; p. 632.
Licorice confections. John Mueller Licorice Co. No. 146,821; Sept. 20; v. 290; p. 636.
Linon, gingham, poplin, &c., in the piece, India. Ely & Walker Dry Goods Company. No. 146,731; Sept. 20; v. 290; p. 633.
Locks and latches. C. A. Nash & Son. No. 146,822; Sept. 20; v. 290; p. 636.
Lotion, Face-. E. Carpenter. No. 146,704; Sept. 20; v. 290; p. 632.
Lotions and hair-tonics, Face-. Dr. J. Haas. No. 146,759; Sept. 20; v. 290; p. 634.
Luncheon outfit. Wilder Mfg. Co. No. 146,912; Sept. 20; v. 290; p. 638.
Malt extract. Wander Company. No. 146,906; Sept. 20; v. 290; p. 638.
Malt extracts. Ye Olden Times Co. No. 146,918; Sept. 20; v. 290; p. 639.
Matches. American Transoceanic Traders. No. 146,675; Sept. 20; v. 290; p. 631.
Mayonnaise, catsup, food-oils, &c. Escoffier Limited. No. 146,733; Sept. 20; v. 290; p. 633.
Meats and dried sausage, Smoked and dried. B. Meier & Son. No. 146,816; Sept. 20; v. 290; p. 635.
Meats, Fresh, smoked, and salted. G. Lang. No. 146,796; Sept. 20; v. 290; p. 635.
Medicinal and pharmaceutical preparations. Owl Drug Company. No. 146,830; Sept. 20; v. 290; p. 636.
Medicinal preparations. E. C. Adams. No. 146,664; Sept. 20; v. 290; p. 631.
Medicinal preparations. J. Paladino. No. 146,832; Sept. 20; v. 290; p. 636.
Medicinal preparations, Certain. Dill Company. No. 146,727; Sept. 20; v. 290; p. 633.
Medicinal preparations, Certain. H. B. Goldman. No. 146,752; Sept. 20; v. 290; p. 633.
Medicinal preparations for eczema. W. E. Benike. No. 146,687; Sept. 20; v. 290; p. 631.
Metal ceilings and shingles, &c. Wheeling Corrugating Company. No. 146,939; Sept. 20; v. 290; p. 643.
Music-rolls, Perforated. Filmusic Company. No. 146,735; Sept. 20; v. 290; p. 633.
Musical stringed instruments. Sangtoy Company. No. 146,860; Sept. 20; v. 290; p. 637.
Muslins in the piece. Marshall Field & Company. No. 146,813; Sept. 20; v. 290; p. 635.
Nail-brushes. Samstag & Hilder Bros. No. 146,859; Sept. 20; v. 290; p. 637.
Nail-polish. I. R. Parsons. No. 146,834; Sept. 20; v. 290; p. 636.
Nuts, Salted pistachio-. S. F. Zaloom & Co. No. 146,920; Sept. 20; v. 290; p. 639.
Oil and canned olives, Olive-. A. G. del Castillo. No. 146,706; Sept. 20; v. 290; p. 632.
Oil, Olive-. Martí y Gutiérres. No. 146,755; Sept. 20; v. 290; p. 634.
Oils and a combination of vegetable oils and animal fats, Vegetable. Rogers Company, The. No. 146,854; Sept. 20; v. 290; p. 637.
Oils and greases, Lubricating. Sinclair Refining Company. Nos. 146,873–4; Sept. 20; v. 290; p. 637.
Oils, Cooking and salad. Aunt Jemima Mills Company. No. 146,681; Sept. 20; v. 290; p. 631.
Oils, Lubricating-. Sinclair Refining Company. No. 146,872; Sept. 20; v. 290; p. 637.
Oils, Metal-cutting. E. F. Houghton & Co. Nos. 146,773–4; Sept. 20; v. 290; p. 634.
Oleomargarin. Swift and Company. No. 146,890; Sept. 20; v. 290; p. 638.
Paint, Bituminous rubber. F. O. Pierce Company. No. 146,839; Sept. 20; v. 290; p. 636.
Paints and colors in oil, enamels, varnishes, &c. Beaver Varnish Co. No. 146,686; Sept. 20; v. 290; p. 631.
Paints and paint enamels, Ready-mixed. Voltax Company. No. 146,903; Sept. 20; v. 290; p. 638.
Palliative for rheumatism, colds, &c. P. A. Balaszek. No. 146,685; Sept. 20; v. 290; p. 631.
Paper boxes, razor and shears cases, &c. George V. Steffens Paper Box Co. No. 146,886; Sept. 20; v. 290; p. 638.
Paper, cigarette-makers' cigarette-tubes. Cigarette-. Waldes & Co. Nos. 146,904–5; Sept. 20; v. 290; p. 638.
Paper, Ledger-. Peerless Paper Company. No. 146,835; Sept. 20; v. 290; p. 636.
Paper, Printing, writing, cover, and bond. Peninsular Paper Company. No. 146,836; Sept. 20; v. 290; p. 636.
Papers, Cigarette-. "Turmac" Turkish Macedonian Tobacco Company. No. 146,895; Sept. 20; v. 290; p. 638.
Partitions and doors. Folding Partition Company. No. 146,926; Sept. 20; v. 290; p. 641.
Pastries, cakes, cookies. One Thousand One Madison Avenue French Pastry & Restaurant Co. No. 146,829; Sept. 20; v. 290; p. 636.
Perfumes, toilet waters. F. J. de S. Coty. No. 146,710; Sept. 20; v. 290; p. 632.
Perfumes, toilet waters, &c. F. J. de S. Coty. No. 146,717; Sept. 20; v. 290; p. 632.
Perfumes, toilet water, &c. Parfumerie Houbigant. No. 146,772; Sept. 20; v. 290; p. 634.
Petroleum products used as a fuel for automobiles, &c. Sinclair Refining Company. No. 146,871; Sept. 20; v. 290; p. 637.
Photographic developers. G. C. Gennert. No. 146,748; Sept. 20; v. 290; p. 633.
Phonographic needles. W. H. Bagshaw Co. No. 146,684; Sept. 20; v. 290; p. 631.
Phonographs and parts thereof. M. L. Goldbert. No. 146,751; Sept. 20; v. 290; p. 633.
Pistols. Auto Ordnance Corporation. No. 146,682; Sept. 20; v. 290; p. 631.
Plasters for wounds, &c., Healing-. A. Buran. No. 146,699; Sept. 20; v. 290; p. 632.
Pomade, Hair-. Newbro Manufacturing Company. No. 146,824; Sept. 20; v. 290; p. 636.
Powder, Face-. F. Knights. No. 146,792; Sept. 20; v. 290; p. 635.
Powder, Face-. Magic Beautifier Company. No. 146,806; Sept. 20; v. 290; p. 635.
Preparation for inflammation and irritation of the eyes. P. D. Spaulding. No. 146,881; Sept. 20; v. 290; p. 637.
Preparation for pneumonia, Influenza, &c. Mr. & Mrs. Lewis A. Shindley. No. 146,863; Sept. 20; v. 290; p. 637.
Preparation for the treatment of piles. B. A. Leatherman. No. 146,798; Sept. 20; v. 290; p. 635.
Preparation for treatment of pulmonary diseases. A. Berkowitz. No. 146,689; Sept. 20; v. 290; p. 632.
Preparation for treatment of skin diseases. Dr. W. Anders. No. 146,680; Sept. 20; v. 290; p. 631.
Preparations for use in digestive disorders. Foster-McClellan Co. No. 146,741; Sept. 20; v. 290; p. 633.
Radiators, fenders, &c., for automobiles, motor-trucks, and tractors. Shotwell Johnson Co. No. 146,780; Sept. 20; v. 290; p. 634.
Remedy for eczema, &c. O. I. Lewis. No. 146,800; Sept. 20; v. 290; p. 635.
Ribbons. Johnson, Cowdin & Company. Nos. 146,778–9; Sept. 20; v. 290; p. 634.
Roofing, Prepared sheet-. South Bend Asphalt Roofing Co. No. 146,878; Sept. 20; v. 290; p. 637.
Root-beer. Schibi Spring Brewing Co. No. 146,861; Sept. 20; v. 290; p. 637.
Rubber, Chemical compound used in the manufacture of vulcanized. R. T. Vanderbilt Co. No. 146,898; Sept. 20; v. 290; p. 638.
Salve and ointment preparations. C. Randall. No. 146,850; Sept. 20; v. 290; p. 636.
Sand, Molding-. Keener Sand & Clay Co. No. 146,784; Sept. 20; v. 290; p. 634.
Sandwiches, Peanut-. R. G. Jordan, Jr. No. 146,782; Sept. 20; v. 290; p. 634.
Satin and satin de chine in the piece. William Skinner & Sons. No. 146,876; Sept. 20; v. 290; p. 637.
Sausages, Breakfast-. Hammond Standish & Co. No. 146,761; Sept. 20; v. 290; p. 634.

Seed, Field-. D. D. Simmons. No. 146,868; Sept. 20; v. 290; p. 637.
Shampoo, toilet powder and cream. Graham Bros. Soap Company. No. 146,753; Sept. 20; v. 290; p. 633.
Shingles, Wooden. Krause Bros. Lumber Co. No. 146,794; Sept. 20; v. 290; p. 635.
Shirts. S. Zalis. No. 146,919; Sept. 20; v. 290; p. 639.
Shirts, coats, vests, pants, Woolen outside. Pontiac Manufacturing Company. No. 146,846; Sept. 20; v. 290; p. 636.
Shoe polishers and brushes, brushes and dusters for phonographic records. W. R. Lee. No. 146,799; Sept. 20; v. 290; p. 635.
Shoes, Morse & Burt Co. No. 146,819; Sept. 20; v. 290; p. 636.
Shoes, Children's and misses'. J. Edwards & Co. No. 146,730; Sept. 20; v. 290; p. 633.
Shortening, Vegetable. Nucoa Butter Company. No. 146,827; Sept. 20; v. 290; p. 636.
Silk goods in the piece. Bently & Twohey Silk Company. No. 146,688; Sept. 20; v. 290; p. 632.
Silk piece goods. H. R. Mallinson & Co. Nos. 146,808–9; Sept. 20; v. 290; p. 635.
Silks in the piece. Jansen & Pretzfeld. No. 146,849; Sept. 20; v. 290; p. 636.
Silk, woolen, linen, and cotton piece goods. Haas Brothers Fabrics Corporation. Nos. 146,757–8; Sept. 20; v. 290; p. 634.
Spades, shovels, hoes, &c. John Yates & Co. Ltd. No. 146,917; Sept. 20; v. 290; p. 639.
Spark-plugs for ignition systems for internal-combustion engines. E. C. Manufacturing Company. No. 146,720; Sept. 20; v. 290; p. 633.
Spraying compound, Certain. Hood River Spray Company. No. 146,771; Sept. 20; v. 290; p. 634.
Stovepipes and stove-dampers. Wheeling Corrugating Company. No. 146,938; Sept. 20; v. 290; p. 643.
Strawberries. Strawberry Growers Selling Co. Nos. 146,935–6; Sept. 20; v. 290; p. 642.
Sugar, South Porto Rico Sugar Company. No. 146,879; Sept. 20; v. 290; p. 637.
Sugar substitute. J. Berman. No. 146,690; Sept. 20; v. 290; p. 632.
Suits and overcoats, Men's outer. A. B. Kirschbaum Company. No. 146,789; Sept. 20; v. 290; p. 635.
Swings, Lawn-. G. H. Bugenhagen. No. 146,697; Sept. 20; v. 290; p. 632.
Syrup base, soft drinks, &c., Concentrated fruit-. C. Ghiglino. No. 146,749; Sept. 20; v. 290; p. 633.
Syrup, Corn-. American Hominy Company. Nos. 146,673–4; Sept. 20; v. 290; p. 631.
Syrup, Malted barley-. Acme Supply Co. No. 146,663; Sept. 20; v. 290; p. 631.
Tanks, Certain. Air-Tight Steel Tank Company. No. 146,667; Sept. 20; v. 290; p. 631.
Tea. S. Zechnowitz. No. 146,921; Sept. 20; v. 290; p. 639.
Tea and coffee. Roundy, Peckham & Dexter Co. No. 146,855; Sept. 20; v. 290; p. 637.
Threads, Sewing-. Max Pollack & Co. Nos. 146,842–5; Sept. 20; v. 290; p. 636.
Tickings, cotton suitings, muslins, serges, &c. H. Hausman & Company. No. 146,764; Sept. 20; v. 290; p. 634.
Tires and parts thereof, Rubber. Dunlop Tire and Rubber Corporation of America. No. 146,728; Sept. 20; v. 290; p. 633.
Tires and tubes, Rubber. Longwear Rubber Company. No. 146,930; Sept. 20; v. 290; p. 641.
Tires, casings, and tubes, Rubber vehicle-. Lincoln Tire & Rubber Co. No. 146,929; Sept. 20; v. 290; p. 641.
Tires, tubes, &c., Rubber for. C. L. Marshall. No. 146,811; Sept. 20; v. 290; p. 635.
Toilet preparations. V. Vivaudou. No. 146,901; Sept. 20; v. 290; p. 638.
Toilet preparations. J. B. Williams Company. No. 146,913; Sept. 20; v. 290; p. 638.
Tonic. Mihalovitch Co. No. 146,817; Sept. 20; v. 290; p. 635.
Tonic, General. Crown Products Company. No. 146,720; Sept. 20; v. 290; p. 632.
Tonic, General. W. G. Holley. No. 146,770; Sept. 20; v. 290; p. 634.
Tonic, General. A. W. Van Bysterveld. No. 146,897; Sept. 20; v. 290; p. 638.
Tonics, Poultry-. Cotto Waxo Co. No. 146,718; Sept. 20; v. 290; p. 632.
Tooth-pastes. V. Vivaudou. No. 146,902; Sept. 20; v. 290; p. 638.
Towels. Stamped Specialties Company. No. 146,934; Sept. 20; v. 290; p. 642.
Tractors and motor-propelled agricultural implements. Avery Company. No. 146,683; Sept. 20; v. 290; p. 631.
Tripoli flour used as a polishing material. American Tripoli Company. No. 146,923; Sept. 20; v. 290; p. 641.
Trucks, Hand lifting-. Hesco Ltd. No. 146,766; Sept. 20; v. 290; p. 634.
Trucks, Platform-. West Bend Equipment Co. No. 146,910; Sept. 20; v. 290; p. 638.
Tubes, Inner. B. F. Goodrich Company. No. 146,927; Sept. 20; v. 290; p. 641.
Underwear. American Dry Goods Company of New York. No. 146,670; Sept. 20; v. 290; p. 631.
Vanilla extract. R. Frank. No. 146,742; Sept. 20; v. 290; p. 633.
Varnish, Floor-. Remien & Kuhnert Co. No. 146,851; Sept. 20; v. 290; p. 636.
Ventilators and chimney-caps. Day Company. No. 146,723; Sept. 20; v. 290; p. 633.
Vermifuge. Wright's Indian Vegetable Pill Company. Nos. 146,914–5; Sept. 20; v. 290; p. 638.
Vitamin products. Parke, Davis & Company. No. 146,833; Sept. 20; v. 290; p. 636.
Waists, dresses, and silk underwear, Women's. Wechsler Barber Silk Co. No. 146,909; Sept. 20; v. 290; p. 638.
Washing machines, and wringers, Laundry-. Central Manufacturing Company. No. 146,707; Sept. 20; v. 290; p. 632.
Washing machines, Clothes-. Surf Manufacturing Co. No. 146,889; Sept. 20; v. 290; p. 638.
Watches, watch cases and movements. B. Gutter & Sons. No. 146,756; Sept. 20; v. 290; p. 634.
Water, Artificial mineral. Diamond Chemical Co. No. 146,725; Sept. 20; v. 290; p. 633.
Water, Natural mineral. P. Cabañas Font. No. 146,738; Sept. 20; v. 290; p. 633.
Woolen piece goods. Forstmann & Huffmann Company. No. 146,740; Sept. 20; v. 290; p. 633.
Worsted and woolen textile fabrics in the piece. Holden-Leonard Co. Nos. 146,768–9; Sept. 20; v. 290; p. 634.
Woven, knitted, netted, textile and pile fabrics in the piece. Cheney Brothers. No. 146,709; Sept. 20; v. 290; p. 632.
Zinc oxid and mixtures containing same. American Zinc, Lead and Smelting Company. No. 146,678; Sept. 20; v. 290; p. 631.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Aeroplanes. J. L. Aircraft Corporation. No. 138,530; Sept. 20; v. 290; p. 608.
Antiseptic, germicide, and medicinal treatment for pyorrhea. J. D. Mason. No. 144,585; Sept. 20; v. 290; p. 613.
Antiseptic medical substance. Winthrop Chemical Company. No. 136,217; Sept. 20; v. 290; p. 606.
Automobile-body polish. J. F. Rolshausen. No. 135,618; Sept. 20; v. 290; p. 606.
Automobile-vans and motor-trucks. J. P. Lehrer. No. 148,841; Sept. 20; v. 290; p. 625.
Automobiles, motor-trucks. Winton Company. No. 139,488; Sept. 20; v. 290; p. 609.
Bacon, fresh pork and sausage. John Morrell & Company. No. 147,366; Sept. 20; v. 290; p. 619.
Bag and twine holders, pie-racks, &c. Wickwire Spencer Steel Corporation. No. 147,146; Sept. 20; v. 290; p. 618.
Bags made of cloth. Amoskeag Manufacturing Company. Nos. 142,606–7; Sept. 20; v. 290; p. 610.
Bags, Shopping and paper. Carry-Ette Bag Company. No. 147,710; Sept. 20; v. 290; p. 621.
Baskets, boxes, &c. C. A. Kuehn. No. 145,693; Sept. 20; v. 290; p. 615.
Beans, sugar, oleo-oil, &c. G. C. Grassopoulos. No. 125,568; Sept. 20; v. 290; p. 603.
Belting, hose, packing, &c. Wm. E. Hooper & Sons Co. No. 147,723; Sept. 20; v. 290; p. 621.
Boilers, Water-tube. Heine Safety Boiler Co. Nos. 151,794–6; Sept. 20; v. 290; p. 629.
Boxes and like containers. Paton, Calvert & Co. No. 145,752; Sept. 20; v. 290; p. 615.
Boxes, Gift-. James H. Rook Co. No. 146,184; Sept. 20; v. 290; p. 616.
Boxes, Vanity-. Harriet Hubbard Ayer. No. 146,355; Sept. 20; v. 290; p. 616.
Boxes, Vanity-. Harriet Hubbard Ayer. No. 146,357; Sept. 20; v. 290; p. 616.
Boxes, Vanity-. Harriet Hubbard Ayer. No. 146,359; Sept. 20; v. 290; p. 616.
Boxes, Vanity-. Harriet Hubbard Ayer. No. 146,361; Sept. 20; v. 290; p. 616.
Boxes, Vanity-. Harriet Hubbard Ayer. No. 146,363; Sept. 20; v. 290; p. 616.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Boxes, Vanity-. Harriet Hubbard Ayer. No. 146,620; Sept. 20; v. 290; p. 617.
Boxes, Vanity-. Harriet Hubbard Ayer. No. 146,622; Sept. 20; v. 290; p. 617.
Bread. P. P. Lisiecki. No. 147,928; Sept. 20; v. 290; p. 621.
Brick and cementitious tile. Birmingham Slag Co. No. 147,659; Sept. 20; v. 290; p. 620.
Building materials. Evans Builders Company. No. 146,758; Sept. 20; v. 290; p. 618.
Butter. Pioneer Creamery Co. No. 148,238; Sept. 20; v. 290; p. 623.
Buttermilk, Dried. Buttermilk Sales Co. No. 149,577; Sept. 20; v. 290; p. 627.
Cakes. Ward Baking Company. No. 119,259; Sept. 20; v. 290; p. 603.
Candies. Mason, Au & Magenheimer Confectionery Manufacturing Company. Nos. 149,014–5; Sept. 20; v. 290; p. 625.
Candies. George Ziegler Co. No. 149,844; Sept. 20; v. 290; p. 627.
Candies, Chocolate. E. Greenfield's Sons. No. 150,065; Sept. 20; v. 290; p. 628.
Candy. Williamson Candy Co. No. 150,085; Sept. 20; v. 290; p. 628.
Candy and chocolate bars. Jacob Brothers. No. 149,755; Sept. 20; v. 290; p. 627.
Candy sticks. Gardiner-Lucas Co. Nos. 149,455–6; Sept. 20; v. 290; p. 627.
Canned goods, coffee, tea, &c. Sussman Wormser & Co. No. 138,613; Sept. 20; v. 290; p. 608.
Cartoons. R. J. Bieger. No. 148,915; Sept. 20; v. 290; p. 625.
Cement. Portland. Petoskey Portland Cement Co. No. 146,659; Sept. 20; v. 290; p. 617.
Chocolate, cocoa, &c. Chocolats fins Zurcher S. A. No. 140,165; Sept. 20; v. 290; p. 609.
Coal. F. O. Busbee. Nos. 147,325–6; Sept. 20; v. 290; p. 619.
Coal. Southern Coal & Coke Company. No. 128,026; Sept. 20; v. 290; p. 604.
Coal. Templeton Coal Company. No. 144,991; Sept. 20; v. 290; p. 614.
Coal, Blacksmith-. Mill and Mine Supply Co. No. 133,667; Sept. 20; v. 290; p. 606.
Coffee. General Coffee and Tea Company. No. 148,881; Sept. 20; v. 290; p. 624.
Coffee. Vinson Coffee Co. No. 149,531; Sept. 20; v. 290; p. 627.
Cotton piece goods. Hicks-Fuller Co. No. 151,160; Sept. 20; v. 290; p. 629.
Cotton piece goods, silks, ducks, &c. International Standard Exporting Corporation. No. 148,075; Sept. 20; v. 290; p. 622.
Crackers. Cheese-. Green and Green Company. No. 148,066; Sept. 20; v. 290; p. 622.
Crates, wood boxes, and cartons. Central Furniture Packing Company. No. 143,911; Sept. 20; v. 290; p. 611.
Cream and lotions, hair-tonics, &c., Toilet. Du Pont Young Corporation. No. 124,786; Sept. 20; v. 290; p. 603.
Cream, Facial. E. L. Petersen. No. 144,982; Sept. 20; v. 290; p. 614.
Curtains, draperies, blankets, &c., Lace. McDonald Bros. Co. No. 125,902; Sept. 20; v. 290; p. 604.
Deodorant and disinfectant. I. Ressler. No. 129,417; Sept. 20; v. 290; p. 605.
Dyes, Cloth-. Fairy Dye Company. No. 137,729; Sept. 20; v. 290; p. 608.
Egg-preservative. K. & G. Laboratories Co. No. 149,086; Sept. 20; v. 290; p. 626.
Emulsion for influenza, palliative for venereal diseases, &c. Dr. A. Flores. No. 128,345; Sept. 20; v. 290; p. 605.
Fabrics, Apparel. Marshall Field & Company. No. 141,366; Sept. 20; v. 290; p. 609.
Feed, Poultry. Security Mills & Feed Company. No. 148,171; Sept. 20; v. 290; p. 623.
Feeding and drinking receptacles, Poultry. B. & W. Mfg. Co. No. 149,209; Sept. 20; v. 290; p. 626.
Floor-coverings, linoleum, &c., Felt-base. W. A. W. Davis Corp. Nos. 138,674–5; Sept. 20; v. 290; p. 608.
Flour, Wheat-. American Finance & Commerce Company. No. 148,107; Sept. 20; v. 290; p. 622.
Flour, Wheat-. American Finance & Commerce Company. No. 148,110; Sept. 20; v. 290; p. 622.
Flour, Wheat-. Millers Milling Company. No. 147,444; Sept. 20; v. 290; p. 619.
Flour, Wheat-. Wallace Milling Company. No. 147,068; Sept. 20; v. 290; p. 618.
Fruit pectin, Concentrated. Pectin Sales Co. No. 149,354; Sept. 20; v. 290; p. 626.
Fuel, benzol, toluol, naphtha, Liquid. Coopers Creek Chemical Company. No. 127,716; Sept. 20; v. 290; p. 604.
Furniture, Household. Chamberlayne, Inc. No. 139,253; Sept. 20; v. 290; p. 608.
Garnetiac. Henry W. Peabody & Co. No. 141,844; Sept. 20; v. 290; p. 610.
Gasolene, naphtha, kerosene, &c. Marland Refining Company. No. 137,537; Sept. 20; v. 290; p. 607.
Grapes, Fresh. R. Krasnow & Sons. No. 150,017; Sept. 20; v. 290; p. 628.
Hair-grower. F. B. Stoner. No. 144,053; Sept. 20; v. 290; p. 612.
Hair-growers. Mrs. B. Parker. No. 136,528; Sept. 20; v. 290; p. 607.
Hair-nets. N. B. Cohen. No. 150,003; Sept. 20; v. 290; p. 628.
Hair-nets. Penn Rivet Corporation. No. 151,287; Sept. 20; v. 290; p. 629.
Hair-nets. Penn Rivet Corporation. No. 151,374; Sept. 20; v. 290; p. 629.
Hair-tonic. F. B. Weidler. No. 145,662; Sept. 20; v. 290; p. 615.
Hair-tonic. L. L. Williams. No. 140,359; Sept. 20; v. 290; p. 609.
Handbags, Ladies'. Warschauer & Roth. No. 148,782; Sept. 20; v. 290; p. 624.
Insecticides, deodorants, &c. Standard Chemical Works. No. 144,104; Sept. 20; v. 290; p. 612.
Lamps, Gas-. H. C. Abrams. No. 148,256; Sept. 20; v. 290; p. 623.
Lamps, lanterns, ventilators, &c. Scintilla. No. 136,045; Sept. 20; v. 290; p. 606.
Lawns in the piece. Lawrence Textile Co. Nos. 147,519–21; Sept. 20; v. 290; p. 620.
Laxative. Needham Products Company. No. 143,615; Sept. 20; v. 290; p. 611.
Leather, Sole and harness. Magnus Hessberg, Inc. No. 147,161; Sept. 20; v. 290; p. 618.
Liniment. Trust Estate of Adolph C. Meyer, Deceased. No. 144,548; Sept. 20; v. 290; p. 613.
Lip-sticks, nail-polish, and incense. Irvin-Smith Co. No. 131,333; Sept. 20; v. 290; p. 605.
Lozenges for throat diseases. J. Bengué. No. 133,079; Sept. 20; v. 290; p. 605.
Macaroni, spaghetti, egg-noodles. Macaroni Foods Corporation. No. 148,847; Sept. 20; v. 290; p. 624.
Mattresses. Capitol Bedding Company. No. 145,007; Sept. 20; v. 290; p. 614.
Mattresses, pillows, &c. T. A. Holtzclaw. No. 145,336; Sept. 20; v. 290; p. 614.
Medicinal preparation. V. Halper. No. 139,270; Sept. 20; v. 290; p. 608.
Medicinal preparation for pyorrhea, &c. Wm. W. Hoagland, D. D. S. No. 144,861; Sept. 20; v. 290; p. 613.
Medicinal preparation for rheumatism. M. Nelson. No. 143,570; Sept. 20; v. 290; p. 611.
Medicinal preparations for treatment of diseases of poultry and stimulate egg-laying. Vayeide Chemical Corporation. No. 147,486; Sept. 20; v. 290; p. 620.
Medicinal preparations in liquid form. Trust Estate of Adolph C. Meyer, Deceased. No. 144,165; Sept. 20; v. 290; p. 612.
Medicinal preparations in liquid form. Trust Estate of Adolph C. Meyer, Deceased. No. 144,240; Sept. 20; v. 290; p. 612.
Medicinal preparations in liquid form. Trust Estate of Adolph C. Meyer, Deceased. No. 144,345; Sept. 20; v. 290; p. 612.
Medicinal preparations in liquid form. Trust Estate of Adolph C. Meyer, Deceased. No. 144,400; Sept. 20; v. 290; p. 613.
Medicinal preparations in liquid form. Trust Estate of Adolph C. Meyer, Deceased. No. 144,482; Sept. 20; v. 290; p. 631.
Medicine for asthma. M. Rutkay. No. 146,270; Sept. 20; v. 290; p. 616.
Medicines and pharmaceutical preparations. Boericke & Runyon Co. No. 137,564; Sept. 20; v. 290; p. 607.
Milk, buttermilk, cream, butter. City Creamery Co. No. 142,331; Sept. 20; v. 290; p. 610.
Milk, cream, butter, eggs, &c. H. P. Hood & Sons. No. 136,296; Sept. 20; v. 290; p. 606.
Oil, Mineral. Standard Oil Company. No. 148,563; Sept. 20; v. 290; p. 624.
Oils and greases, Lubricating. American Oil Corporation. Nos. 150,584–5; Sept. 20; v. 290; p. 628.
Oils, Burning-. Texas Company. No. 135,460; Sept. 20; v. 290; p. 606.
Oils, Lubricating-. F. A. Marsh. No. 146,493; Sept. 20; v. 290; p. 67.
Oily emulsion of argenti nitras. Dr. F. Garal. No. 147,421; Sept. 20; v. 290; p. 619.
Ointment for sunburn, tan, &c. S. Magland. No. 147,633; Sept. 20; v. 290; p. 620.
Paints, varnishes, &c., Liquid. Carpenter-Morton Company. No. 142,007; Sept. 20; v. 290; p. 610.
Paper bags, egg-cartons, merchandise-envelops. Continental Paper & Bag Mills. No. 148,480; Sept. 20; v. 290; p. 624.
Paper drinking-cups. American Paper Goods Co. No. 143,848; Sept. 20; v. 290; p. 611.
Patching adhesive outfits, gasket and rubber cements. R. M. Hollingshead Co. No. 149,135; Sept. 20; v. 290; p. 626.
Pavements and paving materials. Warren Brothers Company. No. 151,602; Sept. 20; v. 290; p. 629.
Perfumes. Colgate & Company. No. 149,062; Sept. 20; v. 290; p. 625.

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[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Perfumes. Colgate & Company. No. 149,064; Sept. 20; v. 290; p. 625.
Perfumes. Colgate & Company. Nos. 149,067–8; Sept. 20; v. 290; p. 626.
Petroleum products. Standard Oil Company of New York. No. 150,776; Sept. 20; v. 290; p. 628.
Poultry, eggs, and baby-chicks, Live. American Poultry Farms. No. 145,304; Sept. 20; v. 290; p. 614.
Powder and cream, toilet water, &c., Complexion. De Pree Chemical Company. No. 117,647; Sept. 20; v. 290; p. 603.
Powders, face and cold creams, &c., Face-. Euthola Mfg. Co. No. 148,380; Sept. 20; v. 290; p. 623.
Preparation for poultry to stimulate egg-laying. Vaycide Chemical Corporation. No. 147,483; Sept. 20; v. 290; p. 619.
Preparation for the removal of superfluous hair. N. Parker. No. 134,974; Sept. 20; v. 290; p. 606.
Preparation used in the treatment of rheumatism. J. W. Sewell. No. 147,360; Sept. 20; v. 290; p. 619.
Publication. Doyle-Kidd D. G. Co. No. 136,585; Sept. 20; v. 290; p. 607.
Radiator compound. Navajo Laboratories, Inc. No. 146,461; Sept. 20; v. 290; p. 617.
Ribbons, Silk and velvet. W. E. Dodd. No. 127,998; Sept. 20; v. 290; p. 604.
Roof-coating. Fireproof Products Co. No. 144,715; Sept. 20; v. 290; p. 613.
Rubber patches. Cord Interwoven Patch Co. No. 145,614; Sept. 20; v. 290; p. 615.
Salve, Antiseptic healing-. M. Walinder. No. 131,681; Sept. 20; v. 290; p. 605.
Salve or ointment. Gibson-Snow Co. No. 142,882; Sept. 20; v. 290; p. 611.
Salves for skin eruptions and sores. W. J. Ferrara. No. 125,615; Sept. 20; v. 290; p. 604.
Shampoo, brilliantine, &c., Cocoanut-oil. E. D. Robinson. No. 145,797; Sept. 20; v. 290; p. 615.
Sheets and pillow-cases. Marshall Field & Company. No. 140,288; Sept. 20; v. 290; p. 609.
Shingles, roofing-paper, &c. Noll-Welty Lumber Company. No. 125,010; Sept. 20; v. 290; p. 603.
Shipping-containers. Ashtabula Corrugated Box Co. No 146,513; Sept. 20; v. 290; p. 617.
Shipping-containers. Decy Iceless Express Container Co. No. 145,998; Sept. 20; v. 290; p. 616.
Shock-absorbers for motor-vehicles. H. L. G. Manufacturing Company. No. 129,928; Sept. 20; v. 290; p. 605.
Shotguns, pistols, rifles, &c. Auto-Ordnance Corporation. No. 150,951; Sept. 20; v. 290; p. 628.
Silk, Tie-twist. Jordan Marsh Company. No. 151,010; Sept. 20; v. 290; p. 628.
Silos. Gebrüder Bühler. No. 148,114; Sept. 20; v. 290; p. 623.
Soap, Laundry. A. A. Meeth. No. 148,447; Sept. 20; v. 290; p. 623.
Soaps, Toilet. F. G. Burke. No. 149,674; Sept. 20; v. 290; p. 627.
Stock gestation compound. H. H. Cullinan. No. 144,222; Sept. 20; v. 290; p. 612.
Stoves, gas hot-plates, stovepipe. Thompson-Diggs Company. No. 148,181; Sept. 20; v. 290; p. 623.
Tablet, Laxative. L. W. Jenkins. No. 143,440; Sept. 20; v. 290; p. 611.
Tablets, Laxative. A. Arend Drug Co. No. 146,287; Sept. 20; v. 290; p. 616.
Tablets, Laxative aspirin. Butler & Cosgrave. No. 144,845; Sept. 20; v. 290; p. 613.
Thread, Sewing-. Holland Mfg. Co. Nos. 148,798–9; Sept. 20; v. 290; p. 624.
Tire casings, Rubber-. Gillette Rubber Co. No. 146,484; Sept. 20; v. 290; p. 617.
Tires, Coating for automobile-. L. Ingraham. No. 142,215; Sept. 20; v. 290; p. 610.
Tires, inner tubes, &c., Vehicle-. Ashland Tire and Rubber Company. No. 143,907; Sept. 20; v. 290; p. 611.
Tonic. W. M. Payne. No. 147,259; Sept. 20; v. 290; p. 618.
Tonic, General. W. F. Rhyne. No. 134,090; Sept. 20; v. 290; p. 606.
Tonic, Medicinal. D. & D. Remedy Company. No. 149,128; Sept. 20; v. 290; p. 626.
Tonic, Medicinal. Mere Miczulene. Nos. 147,973–4; Sept. 20; v. 290; pp. 621–2.
Tooth-paste. A. B. Brill. No. 147,228; Sept. 20; v. 290; p. 618.
Tooth-wash. F. W. Ames. No. 145,930; Sept. 20; v. 290; p. 615.
Trees, Material for filling cavities in. A. F. W. Vick. No. 133,235; Sept. 20; v. 290; p. 605.
Tulles, muslins, crepes, &c. "Dynamo" Tulle Importing Company. No. 147,554; Sept. 20; v. 290; p. 620.
Water-heaters, Gas. Bastian-Morley Co. No. 151,933; Sept. 20; v. 290; p. 629.
Waterproof fabrics. Fred S. Bennett, Inc. No. 137,656; Sept. 20; v. 290; p. 607.
Waterproofing liquid. Statite Waterproofing Products Co. No. 149,359; Sept. 20; v. 290; p. 626.
Wheel-rims, brake-shoes, &c., Demountable. Lightning Sales Corporation. No. 147,729; Sept. 20; v. 290; p. 621.
Wine, Ferrated bitter. B. R. Kozlowski. No. 141,784; Sept. 20; v. 290; p. 609.
Woolen and cotton piece goods. Millbrook Woolen Mills. No. 141,955; Sept. 20; v. 290; p. 610.
Yarns and threads. American Cellulose & Chemical Manufacturing Company. No. 148,912; Sept. 20; v. 290; p. 624.
Yarns and threads, Silk and artificial-silk. American Cellulose & Chemical Manufacturing Company. No. 148,859; Sept. 20; v. 290; p. 624.
Zinc oxid. Loraine Zinc Company. No. 148,029; Sept. 20; v. 290; p. 622.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 20, 1921.

NOTE.—First number=class, second number=subclass, third number=patent number.

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ALPHABETICAL LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 27TH DAY OF SEPTEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Adams, Philip, North Bay, Ontario, Canada. Railway safety-signal. No. 1,391,815; Sept. 27; v. 290; p. 682.
Adams, Reed, Detroit, Mich. Printing-press. No. 1,391,711; Sept. 27; v. 290; p. 662.
Albergoli, Bernardo, Las Rosas, Argentina. Separable chair. No. 1,392,242; Sept. 27; v. 290; p. 769.
Allen, Annie, administratrix. (See Koenig, William J.)
Allen, Charles J., Moorestown, N. J., assignor to S. L. Allen & Co., Inc. Tractor. No. 1,391,929; Sept. 27; v. 290; p. 705.
Allen, S. L., & Co. (See Allen, Charles J., assignor.)
Ambrose, Davis, Louisville, Ky. Rail-chair. No. 1,391,658; Sept. 27; v. 290; p. 651.
American Cotton Oil Company, The. (See Phillips, Cecil O., assignor.)
American Hardware Corporation. (See Hurd, Norman B., assignor.)
American Laundry Machinery Company. (See Dreher, Albert J., assignor.)
American Telephone and Telegraph Company. (See Harden, William H., assignor.)
American Telephone and Telegraph Company. (See Kuhn, George W., assignor.)
American Whaley Engine Company. (See Whaley, William B. S., assignor.)
Andreesen, Herman P., Chicago, Ill. Tank-car. No. 1,391,668; Sept. 27; v. 290; p. 652.
Anderson, Gustaf, Atlin, British Columbia, Canada. Saw-fitting tool. No. 1,392,261; Sept. 27; v. 290; p. 773.
Arcadia Trailer Corporation. (See Collier, Joseph W., assignor.)
Archibald, Nevin A., Concord, N. C. Swing. No. 1,391,874; Sept. 27; v. 290; p. 694.
Ardo, Joseph, Newhall, W. Va. Resilient wheel. No. 1,391,660; Sept. 27; v. 290; p. 651.
Arend, John, Mankato, Minn. Piston-ring. No. 1,391,816; Sept. 27; v. 290; p. 682.
Arlin, Karl. (See Maki, O., and Arlin.)
Armstrong, Charlie R., Hawarden, Iowa. Bolt for loaded grain-cars. No. 1,391,661; Sept. 27; v. 290; p. 651.
Atherton, Er., Maquoketa, Iowa. Rewinding apparatus for gas-machine motors. No. 1,391,817; Sept. 27; v. 290; p. 682.
Atherton, Reginald I., North Finchley, England. Portable cinematograph-projector. No. 1,391,990; Sept. 27; v. 290; p. 719.
Atwood, Harry C., Ardmore, Okla. Hand-nutcracker. No. 1,391,751; Sept. 27; v. 290; p. 669.
Autosales Corporation. (See Grover, Albert D., assignor.)
Augustine, Charles, Hermann, Mo. Machine for marking vamps of shoes. No. 1,391,752; Sept. 27; v. 290; p. 670.
Augustyn, Andro, East Derby, Conn. Combination-lock. No. 1,391,662; Sept. 27; v. 290; p. 651.
Babbitt, W. Edmands, Portsmouth, N. H., assignor of two-fifths to R. W. Foster, Boston, Mass. Resilient wheel. No. 1,392,262; Sept. 27; v. 290; p. 773.
Babbis, Harry A., Philadelphia, Pa. Liquid coating composition. No. 1,392,040; Sept. 27; v. 290; p. 729.
Baier, L., Stanley, Portland, Oreg. Safety head-gear. No. 1,391,753; Sept. 27; v. 290; p. 670.
Bair, Dean L., Portland, Oreg. Washing-machine. No. 1,391,754; Sept. 27; v. 290; p. 670.
Ball & Ball Carbureter Company. (See Ball, Frank H., assignor.)
Ball & Ball Carbureter Company. (See Ball, Frank H. and F. O., assignors.)
Ball, Frank H, assignor to Ball & Ball Carbureter Company, Detroit, Mich. Carbureter. No. 1,391,930; Sept. 27; v. 290; p. 706.
Ball, Frank H. and F. O., assignors to Ball & Ball Carbureter Company, Detroit, Mich. Carbureter-control mechanism. No. 1,391,931; Sept. 27; v. 290; p. 706.
Ball, Frederick O. (See Ball, Frank H. and F. O.)
Baratta, Angelo, *et al.* (See Barchiesi, Aurelio, assignor.)
Barbers Electric Specialty Company, The. (See Coffman, Samuel M., assignor.)
Barchiesi, Aurelio, assignor of two-fifths to A. Baratta, Jersey City, N. J., and one-fifth to G. Squarcialupi, New York, N. Y. Automatic valve-closer. No. 1,391,818; Sept. 27; v. 290; p. 618.
Bassick Company, The. (See Cummins, Norman W., assignor.)
Baugats, Frederic G., Paris, France. Abdominal belt. No. 1,392,101; Sept. 27; v. 290; p. 740.
Baumann, Joseph G., Philadelphia, Pa., assignor to A. C. Layman, Wilmington, Del. Safety-hook for glazing-machines. No. 1,392,041; Sept. 27; v. 290; p. 729.
Beck, Sigmond F., Westville, assignor of one-half to G. A. Hill, New Haven, Conn. Abrasive-feeding mechanism for grinding and polishing machines. No. 1,391,875; Sept. 27; v. 290; p. 694.
Becker, Dean B., Fort Atkinson, Wis. Bleaching, dyeing, washing, and soaping cylinder for knitting-mills, dye-houses, bleacheries, and laundries. No. 1,391,712; Sept. 27; v. 290; p. 662.
Beckwith, Harry H., Brookline, Mass., and E. E. Cox, Dover, N. H.; said Cox assignor to said Beckwith. Shoe-stiffener. No. 1,391,932; Sept. 27; v. 290; p. 706.
Belcsynski, Jan. (See Niegnalski, J., and Belenynski.)
Bell, Arthur, Ridgefield Park, N. J. Box-finishing machine. No. 1,392,102; Sept. 27; v. 290; p. 741.
Bell, Chester C., Galesburg, Ill. Gun. No. 1,391,991; Sept. 27; v. 290; p. 719.
Bell, Lorenzo W., assignor of one-fourth to H. O. Keltner and one-fourth to R. Keltner, Carrollton, Mo. Display apparatus for stock. No. 1,391,933; Sept. 27; v. 290; p. 706.
Belloney, Alexander M., U. S. Army. Truck. No. 1,392,103; Sept. 27; v. 290; p. 741.
Bellows, Thomas H., Walla Walla, Wash. Car-replacer. No. 1,391,819; Sept. 27; v. 290; p. 683.
Bentley, John B., Jamestown, N. Y. Bobbin-shuttle. No. 1,392,042; Sept. 27; v. 290; p. 729.
Berg, Anton, Rolla, Mo. Railway-crossing signal. No. 1,392,104; Sept. 27; v. 290; p. 741.
Bergesen, John, Sr., assignor of one-half to J. Bergesen, Brooklyn, N. Y. Boiler-tube brush. No. 1,392,105; Sept. 27; v. 290; p. 741.
Bergesen, Junius. (See Bergesen, J., Sr., assignor.)
Bergfield, William, New York, N. Y. Removable cover for umbrellas. No. 1,392,106; Sept. 27; v. 290; p. 741.
Bergius, Friedrich, Essen-Ruhr, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Hydrogenating carbon compounds under high pressure and elevated temperature. No. 1,391,664; Sept. 27; v. 290; p. 652.
Berry, George W., Kane, Pa. Tilting mechanism for dumping-bodies. No. 1,392,107; Sept. 27; v. 290; p. 742.
Bethlehem Shipbuilding Corporation. (See Frear, Hugo P., assignor.)
Bibby, James, London, England. Power-transmission coupling. No. 1,391,713; Sept. 27; v. 290; p. 662.
Billings, Fred W., Millwood, Wash. Auxiliary protector. No. 1,391,665; Sept. 27; v. 290; p. 652.
Bilterman, John A., Albia, Iowa. Expansible screw. No. 1,392,108; Sept. 27; v. 290; p. 742.
Bissell, Nelson C., Modesto, Calif. Composition for waterproofing cloth. No. 1,391,934; Sept. 27; v. 290; p. 707.
Bisset, David L., Montreal, Quebec, Canada. Chuck. No. 1,392,109; Sept. 27; v. 290; p. 742.
Blake, Thomas B., assignor of one-half to J. R. Vance, Demopolis, Ala. Foot-measure. No. 1,391,714; Sept. 27; v. 290; p. 662.
Blascheck, Joseph, Westcliff-on-Sea, assignor to Blascheck Patents Limited, London, England. Collapsible hut and other collapsible structure. No. 1,392,110; Sept. 27; v. 290; p. 742.
Blascheck Patents Limited. (See Blascheck, J., assignor.)
Blossom, Alden, Newton Square, Pa. Device for regulating temperature. No. 1,391,935; Sept. 27; v. 290; p. 707.
Boenning, William M., Manitowoc, Wis., assignor to A. J. Gerrard, Chicago, Ill. Portable wire-tying machine. No. 1,391,820; Sept. 27; v. 290; p. 683.
Bonham, Guy L., Hartford, Conn. Car-mover. No. 1,391,715; Sept. 27; v. 290; p. 662.
Booth, Harold S., and G. G. Marshall, Cleveland, Ohio. Recovering an element capable of forming a haloid from ores, minerals, &c., containing the same. No. 1,392,048; Sept. 27; v. 290; p. 729.
Booth, Harold S., and G. G. Marshall, Cleveland, Ohio. Recovering an element capable of forming a haloid from ores, minerals, &c., containing the same. No. 1,392,044; Sept. 27; v. 290; p. 729.
Booth, Harold S., and G. G. Marshall, Cleveland, Ohio. Recovering beryllium from ores, minerals, &c., containing the same. No. 1,392,045; Sept. 27; v. 290; p. 730.
Booth, Harold S., Ithaca, N. Y., and G. G. Marshall, Cleveland, Ohio. Recovering beryllium from ores, minerals, and other materials. No. 1,392,046; Sept. 27; v. 290; p. 730.

Booth, Lionel B., Northwood, England. Apparatus for determining angular elevation or depression of distant objects. No. 1,392,263; Sept. 27; v. 290; p. 773.
Bosch, Carl, O. Schmidt, and A. Mittasch, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Catalyst and making same. No. 1,391,666; Sept. 27; v. 290; p. 652.
Bosky, Sadie, Brooklyn, N. Y. Brassière. No. 1,391,936; Sept. 27; v. 290; p. 707.
Bossolt, Charles L., assignor of one-half to J. C. Bossolt, Erie, Pa. Direction-indicator for motor-vehicles. No. 1,391,937; Sept. 27; v. 290; p. 707.
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Boston, John, assignor, by mesne assignments, to Thomas Carter & Sons, Inc., Newark, N. J. Strip-guide for sewing-machines. No. 1,391,876; Sept. 27; v. 290; p. 695.
Bourque, David, assignor to G. W. J. Murphy Company, Amesbury, Mass. Window construction. No. 1,392,243; Sept. 27; v. 290; p. 769.
Boysen, August, Houston, Tex. Serving-table. No. 1,391,755; Sept. 27; v. 290; p. 670.
Brasher, Philip, New York, N. Y. Protecting objects from wave action. No. 1,391,992; Sept. 27; v. 290; p. 719.
Breitung, Edward N., New York, N. Y. Antiskidding device for vehicle-wheels. No. 1,391,667; Sept. 27; v. 290; p. 652.
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Bronnert, Emile, Mülhouse, Alsace-Lorraine, France. Production of high-percentage sulfite cellulose. No. 1,392,047; Sept. 27; v. 290; p. 730.
Brookins, Andrew J., Chicago, Ill. Ramp-rail installation. No. 1,392,111; Sept. 27; v. 290; p. 742.
Brown, Hugh C., Philadelphia, Pa. Valve and grinding mechanism therefor. No. 1,392,112; Sept. 27; v. 290; p. 743.
Brownlee, Wilson A., Quathiaski Cove, British Columbia, Canada. Overhead-track suspension means and load-carriage. No. 1,391,993; Sept. 27; v. 290; p. 719.
Brush, Alanson P., Detroit, Mich. Universal joint. No. 1,391,756; Sept. 27; v. 290; p. 670.
Bryan, William C. (See Swalm, W. E., and Bryan.)
Bryant Electric Company. (See Thomas, George B., assignor.)
Buc, Hyym E., Roselle, assignor to Standard Oil Company, Bayonne, N. J. Production of pentachloracetone. No. 1,391,757; Sept. 27; v. 290; p. 670.
Buc, Hyym E., Roselle, assignor to Standard Oil Company, Bayonne, N. J. Chlorination. No. 1,391,758; Sept. 27; v. 290; p. 671.
Burket, Henry W. (See Gregory, G. T., and Burket.)
Butera, Joseph and G. Sorce, San Jose, Calif. Signaling device. No. 1,392,048; Sept. 27; v. 290; p. 730.
Calhoon, Roland F., assignor of one-half to M. W. Langford, Kansas City, Kans. Dancing toy. No. 1,391,994; Sept. 27; v. 290; p. 720.
Calthrop's, E. R., Aerial Patents Limited. (See Schoelar, Percy W., assignor.)
Cambridge Mechanical Toy Company, The. (See Hartleb, R. C., and Levey, assignors.)
Campbell, Sterling H., St. Louis, Mo. Brake-rod jaw. No. 1,391,716; Sept. 27; v. 290; p. 663.
Carlin, William M., Indianapolis, Ind. Piston. No. 1,391,938; Sept. 27; v. 290; p. 707.
Carr, Glenn D., Cambridge, Nebr. Bean-harvester. No. 1,392,113; Sept. 27; v. 290; p. 743.
Carson, Benjamin T., Rensselaer, N. Y. Tool-holder. No. 1,392,269; Sept. 27; v. 290; p. 774.
Carter, Kenneth W., San Antonio, Tex. Highway for grade-crossings. No. 1,391,995; Sept. 27; v. 290; p. 720.
Carter, Thomas, & Sons. (See Boston, John, assignor.)
Casein Manufacturing Company, The. (See Dunham, Andrew A., assignor.)
Caswell, Herbert M., Kingman, Ariz. Wheelbarrow-handle. No. 1,392,114; Sept. 27; v. 290; p. 743.
Cases, Victor L., Neuilly-sur-Seine, France. Ash-pit for gas-producers mounted on automobiles. No. 1,391,877; Sept. 27; v. 290; p. 696.
Champion Ignition Company. (See Vessey, R. B., and Schmidt, assignors.)
Chaney, Lee F., Springfield, Ohio, assignor to The Chaney Manufacturing Company. Scaling thermometer-tubes and the like. No. 1,391,878; Sept. 27; v. 290; p. 695.
Chaney Manufacturing Company, The. (See Chaney, Lee F., assignor.)
Chase Companies, Inc., The. (See Recker, Adolph C., assignor.)
Chemical Foundation, The. (See Bergius, Friedrich, assignor.)
Chemical Foundation, The. (See Bosch C. Schmidt, and Mittasch, assignors.)
Chemical Foundation, The. (See Herafeld, Alexander, assignor.)
Chemical Foundation, The. (See Priem, Friedrich P., assignor.)
Chemical Foundation, The. (See Tambach, Rudolf, assignor.)
Chemical Foundation, The. (See Wever, Fritz, assignor.)
Chemical Foundation, The. (See Zimmer, Carl L. V., assignor.)
Cheney, Herbert W., Milwaukee, Wis. Metering-motor. No. 1,392,115; Sept. 27; v. 290; p. 743.
Cherington, George T., Waukegan, Ill. Frame for phonograph-motors. No. 1,391,717; Sept. 27; v. 290; p. 663.
Chester, Oliver W. J., Glenmaggie, Gippsland, Victoria, Australia. Strap-holder, belt-fastener, and the like. No. 1,391,879; Sept. 27; v. 290; p. 695.
Chopin, Marcel, assignor to himself and La Societa Anonyme des Grands Moulins de Vilgrain, Nancy, France. Automatic indicator of the proportion of moisture. No. 1,392,116; Sept. 27; v. 290; p. 743.
Christian, John, Cleveland, Ohio. Shoe-lace tip. No. 1,392,270; Sept. 27; v. 290; p. 774.
Clark, Le Grand L., New York, N. Y., assignor of one-half to The Sheridan Iron Works and one-half to T. W. & C. B. Sheridan Company. Detector-controlled gluing mechanism. No. 1,392,117; Sept. 27; v. 290; p. 744.
Clarkson, Charles H., Worcester, Mass. Household drying-rack. No. 1,391,718; Sept. 27; v. 290; p. 663.
Clay, Harry E. (See Simpson, J., and Clay.)
Clipless Paper Fastener Company. (See Hawkins, J. C., assignor.)
Cloetens, Georges, Brussels, Belgium. Mandolin attachment for pianos. No. 1,392,248; Sept. 27; v. 290; p. 270.
Cloetens, Georges, Brussels, assignor of one-third to G. Laloux, Liege, and one-third to L. Van Der Heyden a Hauseur, Brussels, Belgium. Harmonic damper for pianos. No. 1,392,244; Sept. 27; v. 290; p. 769.
Cloetens, Georges, Brussels, assignor of one-third to G. Laloux, Liege, and one-third to L. Van Der Heyden a Hauseur, Brussels, Belgium. Stringed musical instrument. No. 1,392,245; Sept. 27; v. 290; p. 769.
Cloetens, Georges, Brussels, assignor of one-third to G. Laloux, Liege, and one-third to L. Van Der Heyden a Hauseur, Brussels, Belgium. Stringed musical instrument. No. 1,392,246; Sept. 27; v. 290; p. 770.
Cloetens, Georges, Brussels, assignor of one-third to G. Laloux, Liege, and one-third to L. Van Der Heyden a Hauseur, Brussels, Belgium. Pianissimo device of the curtain type. No. 1,392,247; Sept. 27; v. 290; p. 770.
Coffman, Samuel M., Kansas City, Mo., assignor to The Barbers Electric Specialty Company. Vibratory massaging device. No. 1,391,759; Sept. 27; v. 290; p. 671.
Collier, Joseph W., assignor to Arcadia Trailer Corporation, Newark, N. J. Vehicle-train and vehicle. No. 1,391,760; Sept. 27; v. 290; p. 671.
Collier, Lester E. (See Starr, N. S., and Collier.)
Collins, Charles W., Seattle, Wash. Ventilating appliance for clothes-drying machines. No. 1,391,939; Sept. 27; v. 290; p. 707.
Collins, Edgar F., Schenectady, N. Y., assignor to General Electric Company. Control for electric furnaces and the like. No. 1,391,996; Sept. 27; v. 290; p. 720.
Condon, Edward T., Jr., Morristown, N. J. Mechanical movement. No. 1,391,997; Sept. 27; v. 290; p. 720.
Conklin, Oliver F., Detroit, Mich., assignor to Remy Electric Company, Anderson, Ind. Lock for switches and the like. No. 1,391,940; Sept. 27; v. 290; p. 708.
Connelly, Morton B. (See Pelamorgue, Henri C., assignor.)
Conway, William, Soo, Ontario, Canada. Vehicle running-gear. No. 1,392,118; Sept. 27; v. 290; p. 744.
Conyngham, William B., Wilkes-Barre, Pa. Sectional gear-wheel. No. 1,391,719; Sept. 27; v. 290; p. 663.
Cooper, Charles A., New York, N. Y. Umbrella-holder. No. 1,392,120; Sept. 27; v. 290; p. 744.
Corbin, Herbert H., and P. Vellema, Grand Rapids, Mich. Clip. No. 1,392,119; Sept. 27; v. 290; p. 744.
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Cravelone, Tony, and C. Martello, Anaconda, Mont. Automatic train-pipe connector. No. 1,392,121; Sept. 27; v. 290; p. 745.
Crawford, John S., New London, Conn. Train-control apparatus. No. 1,391,941; Sept. 27; v. 290; p. 708.
Cribari, Angelo G., San Bruno, Calif. Tractor. No. 1,391,761; Sept. 27; v. 290; p. 671.
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Cruise, Joseph P., Chicago, Ill. Razor-blade holder. No. 1,392,122; Sept. 27; v. 290; p. 745.
Cummine, Norman W., assignor to The Bassick Company, Bridgeport, Conn. Lubricant-nipple. No. 1,391,942; Sept. 27; v. 290; p. 708.
Currie, Alexander, Yonkers, N. Y. Dust-guard for car-axle boxes. No. 1,391,998; Sept. 27; v. 290; p. 721.
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Curtiss Aeroplane and Motor Corporation. (See Kirkham, Charles B., assignor.)
Curtiss Aeroplane and Motor Corporation. (See Kirkham, C. B., and Thurston, assignors.)
Curtiss Aeroplane and Motor Corporation. (See Kleckler, Henry, assignor.)
Curtiss, Glenn H., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Streamline wiring for airplanes. No. 1,392,271; Sept. 27; v. 290; p. 774.
Curtiss, Glenn H., Garden City, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Airplane landing-gear. No. 1,392,272; Sept. 27; v. 290; p. 775.
Cushman, Everett B., assignor to The Piersen Manufacturing Company, Topeka, Kans. Clutch. No. 1,391,668; Sept. 27; v. 290; p. 652.
Cuys, Michal, Toledo, Ohio. Combination-lock. No. 1,391,999; Sept. 27; v. 290; p. 721.
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Danisi, Vito, New York, N. Y. Embroidery-frame. No. 1,392,123; Sept. 27; v. 290; p. 745.
Davies, Arthur S., Santa Cruz, Calif. Fish-cooker. No. 1,391,821; Sept. 27; v. 290; p. 683.
Davis, Elmer W., Newton Center, Mass., assignor to Shaw-Walker Company, Muskegon, Mich. Index. No. 1,391,720; Sept. 27; v. 290; p. 663.
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De Camp, Ray E., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,392,250; Sept. 27; v. 290; p. 771.
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Delano, James K., New York, N. Y. Electrical system for motor-vehicles. No. 1,391,880; Sept. 27; v. 290; p. 695.
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Denmire, Harold A., assignor to The General Tire & Rubber Company, Akron, Ohio. Box-making machine. No. 1,391,669; Sept. 27; v. 290; p. 653.
Dequer, John E., Kansas City, Mo. Thermomagnetic therapeutic appliance. No. 1,391,762; Sept. 27; v. 290; p. 671.
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Deuel, Pliny W., Chicago, Ill. Traction device. No. 1,391,721; Sept. 27; v. 290; p. 664.
Dicken, Isham S., assignor of one-half to W. T. Miles, St. Louis, Mo. Hinge. No. 1,392,049; Sept. 27; v. 290; p. 730.
Dickinson, Cloyd C., Chicago, Ill. Sharpener for cutting instruments. No. 1,391,763; Sept. 27; v. 290; p. 671.
Digby, Emmet B., Atlanta, Ga. Washing-machine. No. 1,392,273; Sept. 27; v. 290; p. 775.
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Dodgson, Frank L., Rochester, assignor to General Railway Signal Company, Gates, N. Y. Relay. No. 1,391,944; Sept. 27; v. 290; p. 708.
Donaldson, James O., Stockton, Calif. Ditching-machine. No. 1,391,765; Sept. 27; v. 290; p. 672.
Donisthorpe, Horace S. de A., London, England. Thermionic valve for use in wireless telegraphy and telephony. No. 1,391,671; Sept. 27; v. 290; p. 653.
Donkel, Lloyd H., assignor of one-half to S. G. Pate, Macon, Ga. Combined follower and expander for packing-rings. No. 1,391,124; Sept. 27; v. 290; p. 745.
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Dragon, Louis, assignor of one-third to S. Reh and one-third to J. Reible, Philadelphia, Pa. Saw. No. 1,392,050; Sept. 27; v. 290; p. 730.
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Dreher, Albert J., assignor to The American Laundry Machinery Company, Norwood, Ohio. Safety device for pressing-machines. No. 1,392,051; Sept. 27; v. 290; p. 730.
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Dubilier, William, New York, N. Y. Electrical condenser. No. 1,391,672; Sept. 27; v. 290; p. 653.
Dubilier, William, New York, N. Y., assignor, by mesne assignments, to Dubilier Condenser Co., Inc. Antenna-shortening device. No. 1,391,673; Sept. 27; v. 290; p. 653.
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Dudash, Jacob and I., Lawrence, Mass. Gage for looms. No. 1,392,125; Sept. 27; v. 290; p. 745.
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Dumas, William H., assignor of one-half to J. Moore, Lebanon, N. H. Loom attachment. No. 1,392,126; Sept. 27; v. 290; p. 745.
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Dunham, William G., Maple Hill, Conn., assignor of one-half to W. J. Keith, Providence, R. I. Head for dispensing vessels. No. 1,391,772; Sept. 27; v. 290; p. 673.
Du Pont, Eleuthere P., Montchanin, Del. Lubricating system for internal-combustion engines. No. 1,391,722; Sept. 27; v. 290; p. 664.
Du Sell, Giles H., assignor to Independent Pneumatic Tool Company, Chicago, Ill. Tool-holding device. No. 1,391,723; Sept. 27; v. 290; p. 664.
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Eichenser, William R., Johnstown, Pa. Safety device for engines. No. 1,391,724; Sept. 27; v. 290; p. 664.
Eklund, Torgny A., Stockholm, and C. G. Löfveberg, Visby, Sweden. Insulating and building material and producing same. No. 1,392,127; Sept. 27; v. 290; p. 746.
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Emery, Albert H., Stamford, Conn. Producing hollow castings. No. 1,391,675; Sept. 27; v. 290; p. 654.
England, Annie E., Calvert, Md. Oven and warming-closet. No. 1,392,129; Sept. 27; v. 290; p. 746.
Engle, Chester E., Kansas City, Mo. Thermo control for fire-doors. No. 1,392,002; Sept. 27; v. 290; p. 721.
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Essner, Leon, Benton, Mo. Power-transmitting apparatus. No. 1,392,131; Sept. 27; v. 290; p. 747.
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Everett, Edward A., New York, N. Y. Track-drilling machine. No. 1,391,725; Sept. 27; v. 290; p. 664.
Everitt, William A., Portland, Oreg. Snowplow. No. 1,392,132; Sept. 27; v. 290; p. 747.
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Fairfield, Jennie, Detroit, Mich. Plow. No. 1,392,133; Sept. 27; v. 290; p. 747.
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Farber, Louis and H., New York, N. Y. Nut-bowl. No. 1,392,134; Sept. 27; v. 290; p. 747.
Federal System of Bakeries of America, The. (See Kerr, Harry E., assignor.)
Field, John C., Lutcher, La. Safety split set collar. No. 1,391,727; Sept. 27; v. 290; p. 665.
Fielding, Fred, and T. Potter, Jr., Oldham, England. Anti-ballooning and the like device for ring-spinning and doubling frames. No. 1,391,883; Sept. 27; v. 290; p. 696.
Finley, Court H., Williamsburg, Iowa. Liquid-supply system. No. 1,391,676; Sept. 27; v. 290; p. 654.
Firestone Steel Products Company, The. (See Swain, Joseph G., assignor.)
Fischer, Oskar, Berlin-Wilmersdorf, Germany. Typewriting-machine. No. 1,392,135; Sept. 27; v. 290; p. 747.
Fisher, Alva J., Evanston, Ill. Spline-carrying-machine-element. No. 1,391,728; Sept. 27; v. 290; p. 665.
Fisk Rubber Company, The. (See Maynard, Charles E., assignor.)
Flagge, Phillipp F., Green Bay Wis. Illuminated crucifix. No. 1,391,945; Sept. 27; v. 290; p. 709.
Flannery Bolt Company. (See Stafford, B. E. D., and Dodds, assignors.)
Fleet, Merton W., National, Wash. Weed-cutter. No. 1,391,823; Sept. 27; v. 290; p. 683.
Fletcher, Theodore, San Antonio, assignor of one-half to J. M. Nix, Bexar county, Tex. Phonograph-needle. No. 1,391,884; Sept. 27; v. 290; p. 696.
Flintkote Company, The. (See Overbury, F. C., and Rahr, assignors.)
Forbes, Martin W., Miamisburg, Ohio. Combined truck and jack. No. 1,391,773; Sept. 27; v. 290; p. 673.
Forbes, Theodore C., Chicago, Ill. Resilient wheel. No. 1,391,729; Sept. 27; v. 290; p. 665.
Ford, Edwin V., Galena, Kans. Electric lug. No. 1,392,136; Sept. 27; v. 290; p. 747.
Fortescue, Charles L., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,392,137; Sept. 27; v. 290; p. 748.
Foss, Fred, Spokane, Wash. Socket-wrench. No. 1,391,677; Sept. 27; v. 290; p. 654.
Foster, Henry A., Des Moines, Iowa. Waterer and feeder. No. 1,391,824; Sept. 27; v. 290; p. 684.
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Foster, Ralph W. (See Babbitt, W. Edmands, assignor.)
Fothergill, Harry, Westminster, London, England. Automatic control of steam-condensing plants. No. 1,392,003; Sept. 27; v. 290; p. 722.

Fouts, Frank, Galveston, Ind. Hog-feeder. No. 1,392,004; Sept. 27; v. 290; p. 722.
Fowler, Harlan D., Sacramento, Calif. Variable-area wing. No. 1,392,005; Sept. 27; v. 290; p. 722.
François, Albert, Doncaster, England. Filling spaces or cavities which are difficult of access with concrete, cement, or the like. No. 1,391,678; Sept. 27; v. 290; p. 654.
Franke, Louis E., Washington, D. C. Water-wheel. No. 1,391,730; Sept. 27; v. 290; p. 665.
Fraternali, Henry, Dobbs Ferry, N. Y. Cushion-heel for shoes. No. 1,391,885; Sept. 27; v. 290; p. 696.
Frear, Hugo P., assignor to Bethlehem Shipbuilding Corporation Ltd., Bethlehem, Pa. Bulk-cargo carrier. No. 1,391,946; Sept. 27; v. 290; p. 709.
Freeman, James M. (See Freeman, William R. and J. M.)
Freeman, William R. and J. M., Washoe, Mont. Clevis. No. 1,392,138; Sept. 27; v. 290; p. 748.
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Freund, Joseph A., Newtonville, Mass. Watch. No. 1,392,006; Sept. 27; v. 290; p. 722.
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Gamble, Ray and E. J. Silter, Tacoma, Wash. Prepared fish-eggs. No. 1,392,253; Sept. 27; v. 290; p. 771.
Gambs, Joseph, Lyon, France. Electric generator for motor-vehicles. No. 1,391,679; Sept. 27; v. 290; p. 655.
Garland, Claude M., Chicago, Ill. Apparatus for devolatilizing coal, wood, shales, &c. No. 1,391,825; Sept. 27; v. 290; p. 684.
Garratt, Walter A., Covington, Ky. Pneumatic horn. No. 1,391,887; Sept. 27; v. 290; p. 696.
Gates, John W., assignor of one-half to C. M. Searcy, Swifton, Ark. Sadiron. No. 1,393,888; Sept. 27; v. 290; p. 697.
Gendarme, Toussaint, assignor to Societe Anonyme John Cockerill, Seraing, Belgium. Mechanism for starting gas-engines. No. 1,392,139; Sept. 27; v. 290; p. 748.
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Gent, Edgar W., assignor to Western Electric Company, Incorporated, New York, N. Y. Electrically-operated timing apparatus. No. 1,391,947; Sept. 27; v. 290; p. 709.
Genung, George J., assignor of one-half to W. G. Klein, Beaver Falls, Pa. Test-indicator. No. 1,391,731; Sept. 27; v. 290; p. 666.
Gerdine, Thomas G., West Falls Church, Va. Demountable rim. No. 1,392,009; Sept. 27; v. 290; p. 723.
Gernsback, Hugo, New York, N. Y. Apparatus for landing flying-machines. No. 1,392,140; Sept. 27; v. 290; p. 748.
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Gerrard, Alec J., and P. Wright, Chicago, Ill. Automatic wire stretching and twisting machine. No. 1,391,826; Sept. 27; v. 290; p. 684.
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Glendhill, Arthur H., Halifax, England. Lever-control mechanism. No. 1,391,948; Sept. 27; v. 290; p. 709.
Glinchikoff, Alexander, New York, N. Y. Cutting mechanism for mowing-machines, harvesters, reaping-machines, and binders. No. 1,392,010; Sept. 27; v. 290; p. 723.
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Goetze, Oscar A., Golden, Colo. Shears. No. 1,391,827; Sept. 27; v. 290; p. 684.
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Gogay, Henry R., Columbus, Ohio, assignor to Solar Metal Products Company, New York, N. Y. Sheet-metal door. No. 1,391,950; Sept. 27; v. 290; p. 710.
Golden, Daniel J., Brockton, Mass. Sporting-shoe. No. 1,392,142; Sept. 27; v. 290; p. 749.
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Gora, John, Johnsonburg, Pa. Cheese-press. No. 1,392,143; Sept. 27; v. 290; p. 749.
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Gray, Samuel R., Germantown, Pa. Portable camera-support. No. 1,392,144; Sept. 27; v. 290; p. 749.
Green, Earl C., Spokane, Wash. Hand-punch. No. 1,391,890; Sept. 27; v. 290; p. 697.
Greenberg, Israel, Baltimore, Md. Roofing-tile. No. 1,391,891; Sept. 27; v. 290; p. 697.
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Gregory, George T., New Kensington, and H. W. Burket, Arnold, Pa. Automatic coupling for mine-cars. No. 1,392,145; Sept. 27; v. 290; p. 749.
Grizzle, Roscoe M., and A. H. Thacker, Terre Haute, Ind. Tie. No. 1,392,146; Sept. 27; v. 290; p. 749.
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Grover, Albert D., New York, N. Y., assignor to Autosales Corporation. Slot-closing device for coin-controlled vending-machines. No. 1,391,732; Sept. 27; v. 290; p. 666.
Grover, George B., assignor to W. J. Young Machinery Company, Lynn, Mass. Piercing and nailing mechanism for heel-builders. No. 1,391,951; Sept. 27; v. 290; p. 710.
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Gunnoe, Berta B., Beckley, W. Va. Antislipping attachment for wheel-tires. No. 1,392,148; Sept. 27; v. 290; p. 750.
Guthrie, William, Motherwell, assignor of one-half to D. M. Wallace, Glasgow, Scotland. Motor-tractor for agricultural work. No. 1,392,149; Sept. 27; v. 290; p. 750.
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Hahnemann, Walter, Kitzeberg, near Kiel, and H. Hecht, Kiel, Germany. Receiving device for subaqueous sound-signals. No. 1,391,681; Sept. 27; v. 290; p. 655.
Haig, Ottar T., Jamaica Plain, Mass. Valve-grinding tool. No. 1,391,892; Sept. 27; v. 290; p. 698.
Hale, Joshua B., Providence, R. I., assignor, by mesne assignments, to Textile Engineering Company. Carrier for braiding-machines. No. 1,391,682; Sept. 27; v. 290; p. 655.
Halferty, Peter F., Aberdeen, Wash. Shock-absorber. No. 1,392,150; Sept. 27; v. 290; p. 750.
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Hall, Frederick H., Holford, near Bridgwater, England. Vehicle-top. No. 1,392,275; Sept. 27; v. 290; p. 775.
Hames, William F., Providence, R. I. Tone-indicating device for violins. No. 1,392,151; Sept. 27; v. 290; p. 750.
Hanker, Frederic C., Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. Flash-over-suppressing means for rotary-converter systems. No. 1,392,052; Sept. 27; v. 290; p. 731.
Hansen, Oswald H., assignor of one-half to The Wisconsin Chair Company, Port Washington, Wis. Treating canned foods. No. 1,391,953; Sept. 27; v. 290; p. 710.
Harden, William H., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Multiple-station transmission-circuits. No. 1,392,152; Sept. 27; v. 290; p. 570.
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Harrington, Eugene B., assignor of one-half to C. F. Danielson, Jamestown, N. Y. Stringed musical instrument. No. 1,392,053; Sept. 27; v. 290; p. 731.
Harris, William S., W. Cronan, and F. I. Jackson, Bremerton, Wash. Automobile direction-signal. No. 1,391,954; Sept. 27; v. 290; p. 710.
Harrison, Milo B., Los Angeles, Calif. Device for lining and relining brake-bands. No. 1,391,894; Sept. 27; v. 290; p. 698.
Hartford, Edward V., Deal, N. J. Electric switch. No. 1,391,955; Sept. 27; v. 290; p. 711.
Hartleb, Rudolph C., and T. J. Levey, Baltimore, assignors to The Cambridge Mechanical Toy Company, Cambridge, Md. Figure wheeled toy. No. 1,391,829; Sept. 27; v. 290; p. 685.
Haskell, Broderick, Franklin, Pa. Railway-brake indicator. No. 1,391,895; Sept. 27; v. 290; p. 698.
Hawkins, J C, assignor to Clipless Paper Fastener Company Inc., Newton, Mass. Stamp-vending machine. No. 1,391,775; Sept. 27; v. 290; p. 673.
Hawkins, Sam, Centralia, Ill. Roofing-scaffold. No. 1,392,153; Sept. 27; v. 290; p. 751.
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Heberlein, Georges, Wattwil, Switzerland. Cotton fabric No. 1,392,265; Sept. 27; v. 290; p. 774.
Hecht, Heinrich. (See Hahnemann, W., and Hecht.)
Heckler, Frederick W., Darby, Pa. Holder for valves while being ground. No. 1,391,733; Sept. 27; v. 290; p. 666.
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Heddon's, James, Sons, Incorporated. (See Dills, Henry S., assignor.)
Heister, Daniel C., Boulder, Colo. Lubricating device for internal-combustion engines and the like. No. 1,391,734; Sept. 27; v. 290; p. 666.
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Herman, Leo and F. J. Karg, Akron, Ohio. Change-speed gearing. No. 1,392,157; Sept. 27; v. 290; p. 751.
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Herzfeld, Alexander, Berlin, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Nutriment-containing albumen and producing it. No. 1,391,683; Sept. 27; v. 290; p. 655.
Herzog, John, Saginaw, Mich., assignor to Sonora Phonograph Corporation. Filing-cabinet. No. 1,392,055; Sept. 27; v. 290; p. 731.
Hessel, Emil W., Granite City, Ill. Automobile-lock. No. 1,392,158; Sept. 27; v. 290; p. 752.
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Hicks, Ernest C., Waynesville, Mo. Gear-shifter. No. 1,392,159; Sept. 27; v. 290; p. 752.
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Hilts, Harold E., Philadelphia, Pa. Finishing-machine for roads and the like. No. 1,392,161; Sept. 27; v. 290; p. 752.
Hipple, Oliver P., Wilkins township, Allegheny county, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control apparatus. No. 1,392,160; Sept. 27; v. 290; p. 752.
Hiserodt, Van E., Algona, Iowa. Drawer-stop. No. 1,391,896; Sept. 27; v. 290; p. 698.
Hodgkins, Charles H., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Circuit-interrupter. No. 1,392,162; Sept. 27; v. 290; p. 752.
Hoffmann, Oscar, Stuttgart, Germany. Electric pocket-lamp. No. 1,392,163; Sept. 27; v. 290; p. 753.
Holland, James H., Stuttgart, Ark. Automatic fuel-supply-regulating means for hydrocarbon-burners. No. 1,391,956; Sept. 27; v. 290; p. 711.
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Hornburg, Louis A., Omaha, Nebr. Electric lantern. No. 1,391,831; Sept. 27; v. 290; p. 685.
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Hunt, Ormond E., assignor to Packard Motor Car Company, Detroit, Mich. Vehicle-wheel. No. 1,392,164; Sept. 27; v. 290; p. 753.
Hunter, Robert L., Norfolk, Va. Flashlight. No. 1,392,165; Sept. 27; v. 290; p. 753.
Hurd, Norman B., assignor to American Hardware Corporation, New Britain, Conn. Duplicating-machine. No. 1,391,776; Sept. 27; v. 290; p. 674.
Hutton, Edward S., Lapel, Ind. Glass-discharging mechanism. No. 1,391,957; Sept. 27; v. 290; p. 711.
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Independent Pneumatic Tool Company. (See Norling, Reinhold A., assignor.)
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Jacobs, Isidor M., Kansas City, and W. Cramer, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Suspension device. No. 1,391,735; Sept. 27; v. 290; p. 666.
Jacobs, Isidor M., Kansas City, and W. Cramer, assignors to Truck, Tractor, and Manufacturing Company, St. Louis, Mo. Belt-lacing tool. No. 1,391,736; Sept. 27; v. 290; p. 667.
Jacobson, Oskar J. F., New York, N. Y. Magneto-coupling. No. 1,391,777; Sept. 27; v. 290; p. 674.
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James, Henry D., Edgewood Park, and R. E. De Camp, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company. Control system. No. 1,392,060; Sept. 27; v. 290; p. 732.
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James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,392,058; Sept. 27; v. 290; p. 732.
James, Henry D., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Control system. No. 1,392,059; Sept. 27; v. 290; p. 732.
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Jennings, Emerson P., Lehighton, Pa. Sheet-supporting device. No. 1,392,061; Sept. 27; v. 290; p. 732.
Jennings, Emerson P., Lehighton, Pa. Sheet-supporting device for printing-presses. No. 1,392,062; Sept. 27; v. 290; p. 733.
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Johnson, Lester E., assignor to J. H. Johnson, Coffeyville, Kans. Explosive-engine manifold. No. 1,392,168; Sept. 27; v. 290; p. 754.
Johnsyn, Joseph, Dorchester, Mass. Folding bed. No. 1,392,169; Sept. 27; v. 290; p. 754.
Jones, Eli, Luverne, Minn. Thread cutting and tapping machine. No. 1,392,170; Sept. 27; v. 290; p. 574.
Jones, George E., Bundarra, New South Wales, Australia. Chart for use in teaching the art of reading. No. 1,392,014; Sept. 27; v. 290; p. 724.
Jörgensen, Aage H., Lyngby, near Copenhagen, Denmark. Alarm apparatus. No. 1,391,684; Sept. 27; v. 290; p. 656.
Joyner, Lanson B., Washington, La. Internal-combustion engine. No. 1,391,832; Sept. 27; v. 290; p. 685.
Jury, Wilson E., Freeport, Ill. Direction-indicator for vehicles. No. 1,392,171; Sept. 27; v. 290; p. 754.
Kaiser, Ralph L., Oakland, Calif. Combination foldable table and bench. No. 1,391,833; Sept. 27; v. 290; p. 686.
Karg, Frank J. (See Herman, L., and Karg.)
Karry-Lode Industrial Truck Company. (See Schroeder, William, assignor.)
Keith, William J. (See Dunham, William G., assignor.)
Keller, John J. (See Paul, James M., assignor.)
Keller, Joseph, Buffalo, New York. Buffing-machine. No. 1,392,172; Sept. 27; v. 290; p. 754.
Kelly-Springfield Tire Company. (See Marshall, Thomas C., assignor.)
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Keltner, Russell, *et al.* (See Bell, Lorenzo W., assignor.)
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite molding. No. 1,392,173; Sept. 27; v. 290; p. 755.
Kempton, Willard H., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Composite molding. No. 1,392,174; Sept. 27; v. 290; p. 755.
Kendrick, Solomon, Chelsea, assignor to Everlastik, Incorporated, Boston, Mass. Needle-loom. No. 1,391,958; Sept. 27; v. 290; p. 711.
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Kerlin, Rudolph E., Cudahy, Wis. Motor-driven vehicle. No. 1,391,834; Sept. 27; v. 290; p. 386.
Kerr, Harry E., Cleveland, Ohio, assignor to The Federal System of Bakeries of America, Davenport, Iowa. Baking-oven. No. 1,391,835; Sept. 27; v. 290; p. 686.
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Key, Frederick E., assignor to Key Boiler Equipment Company, St. Louis, Mo. Sealing-paste. No. 1,391,738; Sept. 27; v. 290; p. 667.
King, Elias D., Prairie du Sac, Wis. Tail-holder. No. 1,391,739; Sept. 27; v. 290; p. 667.
King, George S., South Berkeley, Calif. Front-axle radius-rod. No. 1,392,175; Sept. 27; v. 290; p. 755.
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Kintzele, Julius H. and F. P., assignors to Keo Manufacturing Company, St. Louis, Mo. Buckle. No. 1,392,064; Sept. 27; v. 290; p. 733.
Kirkham, Charles B., Buffalo, N. Y., assignor to Curtiss Aeroplane and Motor Corporation. Reduction-gearing. No. 1,392,276; Sept. 27; v. 290; p. 775.
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Klein, Walter G. (See Genung, George J., assignor.)
Klem, Gabriel, Gardenton, Manitoba, Canada. Submarine wireless telegraph device. No. 1,391,836; Sept. 27; v. 290; p. 686.
Klipe, Lawrence J., assignor to Mercury Manufacturing Company, Chicago, Ill. Tractor. No. 1,391,779; Sept. 27; v. 290; p. 674.
Klock, George W., Syracuse, N. Y. Counterbalance for duck-decoys. No. 1,392,065; Sept. 27; v. 290; p. 733.
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Koenig, William J., deceased, A. Allen, administratrix, assignor to R. J. De Rosa, Brooklyn, N. Y. Duplex lamp-socket. No. 1,392,176; Sept. 27; v. 290; p. 755.
Köhler, Johan C. E., Woudzicht, near Vrede, Orange Free State, South Africa. Harness. No. 1,392,015; Sept. 27; v. 290; p. 724.

Konopaska, Herman, Paris, Ontario, Canada. Bushing-remover. No. 1,391,837; Sept. 27; v. 290; p. 687.

Kopf, John C., Bellevue, assignor to The Duff Manufacturing Company, Pittsburgh, Pa. Automatically-controlled self-lowering jack. No. 1,392,066; Sept. 27; v. 290; p. 733.

Koetecki, Michael, Hartford, Conn. Spring-wheel. No. 1,391,740; Sept. 27; v. 290; p. 667.

Kovar, Joe, Copiland, Tex. Incubator. No. 1,392,177; Sept. 27; v. 290; p. 755.

Krag, Erik L., Chicago, Ill. Loose-leaf binder. No. 1,391,780; Sept. 27; v. 290; p. 674.

Kuebler, Otto C., Yonkers, N. Y. Collapsible and ventilating bell or forcing-glass. No. 1,392,178; Sept. 27; v 290; p. 755.

Kuenhold, Otto J., Cleveland, Ohio. Heater for garages and other uses. No. 1,392,016; Sept. 27; v. 290; p. 724.

Kuhn, George W., Brooklyn, N. Y., assignor to American Telephone and Telegraph Company. Operator's trunk-circuits. No. 1,392,179; Sept. 27; v. 290; p. 756.

Kwon, Doin, Honolulu, Hawaii. Sewing-machine attachment. No. 1,392,180; Sept. 27; v. 290; p. 756.

Lacy, Charles G., deceased; L. Lacy, administratrix, Alliance, Ohio. Plastic-material furnace. No. 1,392,181; Sept. 27; v. 290; p. 756.

Lacy, Lydia, administratrix. (See Lacy, Charles G.)

La Fay, Arthur J., Toronto, assignor of one-half to H. R. Tudhope, Orillia, Ontario, Canada. Heating apparatus. No. 1,391,838; Sept. 27; v. 290; p. 687.

La Fay, Arthur J., Toronto, assignor of one-half to H. R. Tudhope, Orillia, Ontario, Canada. Heating apparatus. No. 1,391,839; Sept. 27; v. 290; p. 687.

Laloux, Georges, *et al.* (See Cloetens, Georges, assignor.)

Lambert Tire & Rubber Co. (See Nienaber, Louis F., assignor.)

Lamme, Benjamin G., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Means for preventing commutator-flashing. No. 1,392,182; Sept. 27; v. 290; p. 756.

Lammers, Edwin S., Jr., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Motor-control system. No. 1,392,255; Sept. 27; v. 290; p. 772.

Lane, Louis, Habana, Cuba. Window. No. 1,392,183; Sept. 27; v. 290; p. 757.

Langford, Martha W. (See Calhoun, Roland F., assignor.)

Lanning, James K., Fall River, Mass. Spinning-ring. No. 1,392,067; Sept. 27; v. 290; p. 734.

Lasker, William W., Brooklyn, assignor to Powers Accounting Machine Company, New York, N. Y. Transfer or carry-over mechanism. No. 1,391,959; Sept. 27; v. 290; p. 712.

La Societa Anonyme des Grands Moulins de Vilgrain. (See Chopin, Marcel, assignor.)

Layman, Alfred C. (See Baumann, Joseph G., assignor.)

Leach, Vivian A., San Francisco, Calif. Coin receiving and delivering device. No. 1,391,840; Sept. 27; v. 290; p. 687.

Ledig, Richard G., assignor to A. Mecky Company, Philadelphia, Pa. Electric heater. No. 1,391,960; Sept. 27; v. 290; p. 712.

Letsch, Frederick W., Baltimore, Md. Typographic machine. No. 1,392,017; Sept. 27; v. 290; p. 724.

Letsch, Frederick W., assignor to J. N. McFarland, Baltimore, Md. Typographic machine. No. 1,392,018; Sept. 27; v. 290; p. 725.

Levey, Thomas J. (See Hartleb, R. C., and Levey.)

Lewis, Frank R., San Francisco, Calif. Landing-net. No. 1,391,841; Sept. 27; v. 290; p. 688.

Lewis, Joseph R. (See Straka, John, assignor.)

Liebenberg, Christian E., Essington, Pa. Trolley-wheel. No. 1,391,741; Sept. 27; v. 290; p. 667.

Liechty, Hermann, Berne, and J. Werz, Geneva, Switzerland. Bogie for railway-vehicles. No. 1,391,742; Sept. 27; v. 290; p. 668.

Lightfoot, Roy L., San Antonio, Tex. Blade-holder. No. 1,391,842; Sept. 27; v. 290; p. 688.

Lillie, John A., assignor to J. B. Wilkie, Liverpool, England. Preventing fouling and composition therefor. No. 1,392,068; Sept. 27; v. 290; p. 734.

Linder, Victor, Elko, Minn. Door and gate actuating mechanism. No. 1,391,685; Sept. 27; v. 290; p. 656.

Ling, Francis E. (See Reif, Joseph, assignor.)

Lippincott, John W., Little Rock, Ark. Ventilator. No. 1,391,781; Sept. 27; v. 290; p. 675.

Lipsius, Samuel, New York, N. Y. Machine for producing raised printing. No. 1,391,743; Sept. 27; v. 290; p. 668.

Locomotive Stoker Company. (See Lower, Nathan M., assignor.)

Löfveberg, Carl G. (See Eklund, T. A., and Löfveberg.)

Long, Bertie J., West Brooklyn, Ill. Chain-hook. No. 1,392,184; Sept. 27; v. 290; p. 757.

Lower, Nathan M., Pittsburgh, Pa., assignor to Locomotive Stoker Company. Fuel-distributer. No. 1,391,744; Sept. 27; v. 290; p. 668.

Lubeck, Hilding, Heserud, Sweden. Heating arrangement for rooms and the like. No. 1,391,745; Sept. 27; v. 290; p. 668.

Lucke, William A., New York, N. Y. Sheet-turner. No. 1,392,185; Sept. 27; v. 290; p. 757.

Lynch, Jerome E., Newton Center, and J. W. Woodward, Brookline, Mass. Lock for steering-posts. No. 1,392,186; Sept. 27; v. 290; p. 757.

Lynch, Peter J., Omaha, Nebr. Auxiliary carbureter. No. 1,391,899; Sept. 27; v. 290; p. 699.

Lynn, Clarence E., Canandaigua, N. Y. Automobile direction-signal. No. 1,391,686; Sept. 27; v. 290; p. 656.

McCool, James H., Ellsworth, Kans. Racking-frame for pool-balls. No. 1,391,901; Sept. 27; v. 290; p. 699.

McCool, James H., Ellsworth, Kans. Pool-table. No. 1,391,909; Sept. 27; v. 290; p. 701.

McCoy, Timothy R. (See Mattman, W. H., and McCoy.)

McCrery Sanitary Collapsible Barrel Company. (See McCrery, William H., assignor.)

McCrery, William H., Norfolk, Va., assignor to McCrery Sanitary Collapsible Barrel Company, Incorporated, Philadelphia, Pa. Collapsible barrel. No. 1,391,900; Sept. 27; v. 290; p. 699.

McDannold, Alexander, Hallandale, Fla. Electric switch. No. 1,391,782; Sept. 27; v. 290; p. 675.

McDermott, Henry, Iron River, assignor to McDermott Mechanical Company, Iron Mountain, Mich. Shoveling-machine. No. 1,392,069; Sept. 27; v. 290; p. 734.

McDermott Mechanical Company. (See McDermott, Henry, assignor.)

McDermott, William R., and C. E. Showalter, Seattle, Wash. Folding brush. No. 1,391,783; Sept. 27; v. 290; p. 675.

McFarland, J. Norris. (See Letsch, Frederick W., assignor.)

McGuire, Albert W., Carmel, Me. Grab-hook. No. 1,391,746; Sept. 27; v. 290; p. 668.

McKean, John O., assignor to Foster Machine Company, Westfield, Mass. Cop-cone. No. 1,391,961; Sept. 27; v. 290; p. 712.

MacArthur, Duncan A., Ottawa, Ontario, Canada, assignor to The Goodyear Tire & Rubber Company of Canada Limited, Toronto, Ontario, Canada. Belt or strap. No. 1,392,256; Sept. 27; v. 290; p. 772.

Magielda, John. (See Sarockin, F., and Magielda.)

Mahan, George H., Kansas City, Mo. Oil-burner. No. 1,392,187; Sept. 27; v. 290; p. 758.

Maiers, John, Philadelphia, Pa. Angle-joint. No. 1,392,070; Sept. 27; v. 290; p. 734.

Maki, Otto and K. Arlin, Palmer, Mass. Switch-operator. No. 1,392,188; Sept. 27; v. 290; p. 758.

Makie, Hayato, New York, N. Y. Comb cleaner and disinfector. No. 1,392,189; Sept. 27; v. 290; p. 758.

Malouf, Beshara I., Salt Lake City, Utah. Windshield-cleaner. No. 1,392,190; Sept. 27; v. 290; p. 758.

Maltman, William H., and T. R. McCoy, Stockton, Calif. Collapsible form. No. 1,391,747; Sept. 27; v. 290; p. 669.

Mangel, Wallie C., Fairfax, Minn. Trailer connection. No. 1,391,962; Sept. 27; v. 290; p. 712.

Mann, William J. N., London, England. Locking device for use with road-vericles. No. 1,391,687; Sept. 27; v. 290; p. 656.

Manning Maxwell and Moore, Inc. (See Williston, Belvin T., assignor.)

Maranville, Harvey F., Akron, Ohio. Heating appliance. No. 1,392,071; Sept. 27; v. 290; p. 734.

Markiewicz, Antoni, Detroit, Mich. Figure wheeled toy. No. 1,391,843; Sept. 27; v. 290; p. 688.

Marshall, George G. (See Booth, H. S., and Marshall.)

Marshall, Thomas C., Mount Savage, assignor to Kelly-Springfield Tire Company, Cumberland, Md. Molding-core. No. 1,392,072; Sept. 27; v. 290; p. 735.

Marsico, Gerard R., assignor to Puriton Manufacturing Corporation, Brooklyn, N. Y. Horn-shell and bracket. No. 1,391,688; Sept. 27; v. 290; p. 656.

Martello, Carl. (See Cravelene, T., and Martello.)

Martin, Edgar D., assignor of one-half to R. E. Schmidt, Chicago, Ill. System of integrally-cast reinforced concrete pitched-roof construction for buildings. No. 1,392,280; Sept. 27; v. 290; p. 776.

Martin, Joseph, Brooklyn, N. Y. Sweatband-protector. No. 1,391,902; Sept. 27; v. 290; p. 700.

Maruda, Mark S., Chicago, Ill. Device for heating and cooling mattresses. No. 1,392,268; Sept. 27; v. 290; p. 774.

Mathy, Maurice, Liege, Belgium. Coke-oven. No. 1,392,257; Sept. 27; v. 290; p. 772.

Mattman, Emil, Wilkinsburg, Pa., assignor to Westinghouse Electric and Manufacturing Company. End bell. No. 1,392,073; Sept. 27; v. 290; p. 735.

Mayberry, Edward L., Los Angeles, Calif. System of arch-rib floor construction. No. 1,391,748; Sept. 27; v. 290; p. 669.

Mayer, Rudolph A., Pecan Island, La. Cane-harvesting machine. No. 1,392,258; Sept. 27; v. 290; p. 772.

Maynard, Charles E., Northampton, assignor to The Fisk Rubber Company, Chicopee Falls, Mass. Beveling and sealing clamp. No. 1,391,784; Sept. 27; v. 290; p. 675.

Mecky, A., Company. (See Ledig, Richard G., assignor.)

Menon, Vadakkath R., Singapore, Straits Settlements, Combined writing-desk and cabinet. No. 1,392,191; Sept. 27; v. 290; p. 758.

Mercury Manufacturing Company. (See Kline, Lawrence J., assignor.)

Midwest Engine Company. (See Schleyer, Victor, assignor.)

Miles, William T. (See Dicken, Isham S., assignor.)

Miller, Edgar T., Greensburg, Pa. Steering and coupling device for plows. No. 1,391,963; Sept. 27; v. 290; p. 712.

Miller, George L., assignor to The Gilliam Manufacturing Company, Canton, Ohio. Roller-bearing. No. 1,392,019; Sept. 27; v. 290; p. 725.

Miller, George W., Mansfield, Mo. Pipe-cutter. No. 1,392,192; Sept. 27; v. 290; p. 759.

Mills, Chester B., East McKeesport, Pa., assignor to Westinghouse Electric and Manufacturing Company. Short-circuiting and brush-lifting device for dynamo-electric machines. No. 1,392,193; Sept. 27; v. 290; p. 759.

Mills, Herbert S. (See Sandell, Henry K., assignor.)

Mills, James F., Ulvalda, Ga. Automobile-lock. No. 1,392,194; Sept. 27; v. 290; p. 759.

Minney, Arthur W., Stockton, Calif. Wrench. No. 1,391,749; Sept. 27; v. 290; p. 669.

Mints, Harry, Mattapan, Mass., Headrest for hammocks. No. 1,391,964; Sept. 27; v. 290; p. 713.

Missogenis, Georges, Edgewater, N. J., assignor, by mesne assignments, to P. Guimes, Palisade, N. J. Foldable cot. No. 1,392,195; Sept. 27; v. 290; p. 759.

Mitchell Alex Motor Plow Company, The. (See Mitchell, Alexander, assignor.)

Mitchell, Alexander, Pueblo, Colo., assignor to The Alex Mitchell Motor Plow Company. Plow-lifting mechanism. No. 1,392,196; Sept. 27; v. 290; p. 760.

Mittasch, Alwin. (See Bosch, C., Schmidt, and Mittasch.)

Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)

Mojonnier, Julius J., Oak Park, assignor to Mojonnier Bros., Co., Chicago, Ill. Testing Milk and Milk Products. No. 1,391,965; Sept. 27; v. 290; p. 713.

Moller, Edward M., Jersey City, N. J. Electric-circuit breaker. No. 1,391,966; Sept. 27; v. 290; p. 713.

Montgomery, Robert C., Brooklyn, assignor to Knox Hat Company, Incorporated, New York, N. Y. Straw hat. No. 1,391,750; Sept. 27; v. 290; p. 669.

Moore, James C., Smyrna, N. Y. Electrician's joist-boring tool. No. 1,391,844; Sept. 27; v. 290; p. 688.

Moore, Joseph. (See Dumas, William H., assignor.)

Morsitta, Mathew M., Princeton, Ind. Piston-ring. No. 1,391,845; Sept. 27; v. 290; p. 688.

Morgan, Howard W., North Tarrytown, N. Y., assignor to The Dorr Company. Sewage treatment. No. 1,392,197; Sept. 27; v. 290; p. 760.

Morse, Waldo G., Yonkers, N. Y. Composition of matter. No. 1,392,074; Sept. 27; v. 290; p. 735.

Morton, James, Dentonhill, Carlisle, England. Manufacture of tapestry or printed carpets, rugs, table-covers, and the like. No. 1,391,785; Sept. 27; v. 290; p. 675.

Moses, William B., Brookline, Mass. Electrical apparatus. No. 1,391,967; Sept. 27; v. 290; p. 713.

Moss, Charles M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Protective apparatus for dynamo-electric machines. No. 1,392,198; Sept. 27; v. 290; p. 760.

Muratori, Alfredo, Rome, Italy, assignor to The British Westinghouse Electric and Manufacturing Company, Limited. Electrical measuring instrument. No. 1,392,199; Sept. 27; v. 290; p. 760.

Murphy, G. W. J., Company. (See Bourque, David, assignor.)

Nakoney, John A., Marysville, Mich. Book-holder. No. 1,392,200; Sept. 27; v. 290; p. 760.

Nash, William, Denver, Colo. Tractor. No. 1,391,689; Sept. 27; v. 290; p. 657.

National Carbon Company. (See Haselett, C. W., and Holt, assignors.)

Navarro, Julio S., Habana, Cuba. Trolley-wheel for electric street-cars. No. 1,391,903; Sept. 27; v. 290; p. 700.

Neale, Charles C., Minneapolis, Minn., assignor to Globe Machinery & Supply Company, Des Moines, Iowa. Automatic lock mechanism for dumping-scales. No. 1,392,075; Sept. 27; v. 290; p. 735.

Nearon, Arle D., Muncie, Ind. Composite boot and shoe sole. No. 1,392,201; Sept. 27; v. 290; p. 761.

Nechville, Wencil. Cedar Rapids, Iowa. Flue-cleaner. No. 1,392,202; Sept. 27; v. 290; p. 761.

Nelson, Herman C. (See Engstrom, O. L., and Nelson.)

Nelson, Olof, Belmont, Mass. Adjustable boring-tool. No. 1,392,203; Sept. 27; v. 290; p. 761.

Nelson, Wesley D., Chicago, Ill. Drum. No. 1,391,786; Sept. 27; v. 290; p. 676.

Newbury, Frank D., Pittsburgh, and H. D. James, Edgewood Park, Pa., assignors to Westinghouse Electric & Manufacturing Company. Excitation for synchronous-booster rotary converters. No. 1,392,076; Sept. 27; v. 290; p. 735.

Nichols, Edgar B., assignor to The Pfaudler Company, Rochester, N. Y. Outlet for jacketed vessels. No. 1,392,204; Sept. 27; v. 290; p. 761.

Nienaber, Louis F., St. Paul, Minn., assignor to Lambert Tire & Rubber Co., Incorporated, Akron, Ohio. Fastening cushion-tires to rims. No. 1,391,846; Sept. 27; v. 290; p. 689.

Niesnalski, Joseph, and J. Relczynski, Detroit, Mich. Retort-cleaning machine. No. 1,392,020; Sept. 27; v. 290; p. 725.

Nix, J. M. (See Fletcher, Theodore, assignor.)

Norling, Reinhold A., Aurora, assignor to Independent Pneumatic Tool Company, Chicago, Ill. Connecting-rod. No. 1,391,847; Sept. 27; v. 290; p. 689.

Norton, Oscar C., Roodhouse, Ill. Sight-feed device. No. 1,392,205; Sept. 27; v. 290; p. 761.

Nymon, Wigo G., Fargo, N. D. Automobile-actuated pump. No. 1,391,968; Sept. 27; v. 290; p. 713.

Oakes, Lucian R., Tipton, Ind. Grain-sprouter. No. 1,392,021; Sept. 27; v. 290; p. 725.

Oberst, Frank, Glendale, N. Y., assignor to Sonora Phonograph Corporation. Automatic stop. No. 1,392,077; Sept. 27; v. 290; p. 735.

O'Donnell, Thomas, Ironwood, Mich. Cluster lamp-socket. No. 1,391,904; Sept. 27; v. 290; p. 700.

Olson, Erik, Great Falls, Mont. Stake. No. 1,392,206; Sept. 27; v. 290; p. 761.

Orner, Elmo P., St. Louis, Mo. Device for straightening sheet metal. No. 1,391,787; Sept. 27; v. 290; p. 676.

Orr, Alexander; Choma, Northern Rhodesia, South Africa. Tires of road and like vehicles. No. 1,391,905; Sept. 27; v. 290; p. 700.

Orr, Robert J., Brooklyn, N. Y. Writing-machine. No. 1,391,788; Sept. 27; v. 290; p. 676.

Ott, Harvey N., assignor to Spencer Lens Company, Buffalo, N. Y. Projection apparatus. No. 1,392,207; Sept. 27; v. 290; p. 762.

Ouillett, Charles E., Lowell, Mass. Elevator. No. 1,392,078; Sept. 27; v. 290; p. 736.

Overbury, Frederick C., Hillsdale, N. J., and C. E. Rahr, Brookline, assignors to The Flintkote Company, Boston, Mass. Asphalt-package and making the same. No. 1,391,969; Sept. 27; v. 290; p. 714.

Overman, Charles S., Detroit, Mich. Bearing-dressing device. No. 1,392,208; Sept. 27; v. 290; p. 762.

Owen, Frederick, Detroit, Mich. Washing-machine. No. 1,391,848; Sept. 27; v. 290; p. 689.

Packard Motor Car Company. (See Hunt, Ormond E., assignor.)

Packard Motor Car Company. (See Stanbrough, Duncan G., assignor.)

Page, Alfred C. (See Poble, Walter B., assignor.)

Pajewski, Stephen, Natrona, Pa. Nut-lock. No. 1,392,209; Sept. 27; v. 290; p. 762.

Parent, Raymond C., Chicago, Ill. Soldering-iron. (Reissue.) No. 15,202; Sept. 27; v. 290; p. 778.

Parker, John W., Detroit, Mich. High-speed spindle. No. 1,392,210; Sept. 27; v. 290; p. 762.

Parmenter, William A., assignor to C. S. Pierce Company, Brockton, Mass. Machine for making pickers. No. 1,392,259; Sept. 27; v. 290; p. 773.

Parsons, Charles A., and J. Rosen, Newcastle-upon-Tyne, England; said Rosen assignor to said Parsons. Dynamo-electric machine. No. 1,392,022; Sept. 27; v. 290; p. 726.

Pate, Samuel G. (See Donkel, Lloyd H., assignor.)

Paul, James M., assignor of one-half to J. J. Keller, Los Angeles, Calif. Spark-plug intensifier. No. 1,392,023; Sept. 27; v. 290; p. 726.

Payne, Harry H., assignor of two-thirds to J. White, Birmingham, England. Drop-down gun and rifle. No. 1,392,024; Sept. 27; v. 290; p. 726.

Payucheck, Jacob, Chester, Pa. Adjustable wrench for milling-machines. No. 1,392,025; Sept. 27; v. 290; p. 726.

Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Sewage treatment. No. 1,392,211; Sept. 27; v. 290; p. 762.

Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Treatment of sewage. No. 1,392,212; Sept. 27; v. 290; p. 762.

Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Treatment of Sewage. No. 1,392,213; Sept. 27; v. 290; p. 763.

Peck, Charles L., New York, N. Y., assignor to The Dorr Company. Apparatus for treating sewage. No. 1,392,214; Sept. 27; v. 290; p. 763.

Pelamorgue, Henri C., Grand Montrouge, France, assignor of one-half to M. B. Connelly, Philadelphia, Pa. Gage. No. 1,392,215; Sept. 27; v. 290; p. 763.

Penfield, William W., assignor to W. W. Penfield, Inc., Stamford, Conn. Snap-fastener. No. 1,392,281; Sept. 27; v. 290; p. 777.

Penfield, William W., Inc. (See Penfield, William W., assignor.)

Perkins, Oren, Fayette, Mo. Piston-grinding machine. No. 1,391,849; Sept. 27; v. 290; p. 689.

Peskind, Samuel, Cleveland, Ohio. Apparatus for vaporising fuel-oils and the like. No. 1,391,789; Sept. 27; v. 290; p. 676.

Pfaff, William A. E., Kansas City, Mo. Ointment-applicator. No. 1,391,850; Sept. 27; v. 290; p. 689.

Pfaudler Company, The. (See Nichols, Edgar B., assignor.)

Phillips & Clark Stove Company. (See Weiss, Albert T., assignor.)

Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Apparatus for molding soap. No. 1,391,970; Sept. 27; v. 290; p. 714.

Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Apparatus for molding soap. No. 1,391,971; Sept. 27; v. 290; p. 714.

Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Method and apparatus for molding soap. No. 1,391,972; Sept. 27; v. 290; p. 714.

Phillips, Cecil O., assignor to American Cotton Oil Company, New York, N. Y. Apparatus for molding soap. No. 1,391,973; Sept. 27; v. 290; p. 714.

Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Apparatus for molding and cooling soap. No. 1,391,974; Sept. 27; v. 290; p. 715.

Phillips, Cecil O., assignor to The American Cotton Oil Company, New York, N. Y. Method for molding and cooling soap. No. 1,391,975; Sept. 27; v. 290; p. 715.

Pierce, C. S., Company. (See Parmenter, William A., assignor.)

Piersen Manufacturing Company, The. (See Cushman, Everett B., assignor.)

Piersen Manufacturing Company, The. (See Schank, Harry E, assignor.)

Pilliod, Charles J., assignor to D. Searles, trustee, Toledo, Ohio. Furnace - door - operating mechanism. No. 1,391,690; Sept. 27; v. 290; p. 657.

Pirwitz, Paul, Marshfield, Wis. Attachment for cantaliver-springs. No. 1,391,851; Sept. 27; v. 290; p. 690.

Pitoni, Guido, Rochester, N. Y. Moving and sounding toy. No. 1,392,216; Sept. 27; v. 290; p. 763.

Plein, Jacob, Plainview, Minn. Loading device. No. 1,391,852; Sept. 27; v. 290; p. 690.

Pohle, Walter B., Lynn, assignor of one-half to A. C. Page, Wollaston, Mass. Spark-plug. No. 1,391,691; Sept. 27; v. 290; p. 657.

Polytes, Nicholas E. (See Rogers, G., and Polytes.)

Ponton, Henri R., Paris, France. Photographic shutter. No. 1,391,790; Sept. 27; v. 290; p. 676.

Ponzio, Salvatore, Syracuse, N. Y. Unsinkable boat. No. 1,392,217; Sept. 27; v. 290; p. 763.

Porter, Will R., Prince Bay, N. Y., assignor to The S. S. White Dental Manufacturing Company. Dental-engine handpiece. No. 1,391,906; Sept. 27; v. 290; p. 700.

Potter, Thomas, Jr. (See Fielding, F., and Potter.)

Powers Accounting Machine Company. (See Lasker, William W., assignor.)

Press, Ray A., Grinnell, Kans. Disk-harrow spindle and boxing. No. 1,391,853; Sept. 27; v. 290; p. 690.

Priem, Friedrich P., Heidenheim, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Machine for producing narrow - paper strips. No. 1,392,218; Sept. 27; v. 290; p. 764.

Priem, Friedrich P., Heidenheim-on-the-Brenz, Germany, assignor to Turk Gesselschaft m. b. H., Hamburg, Germany. Machine for producing rovings from paper-pulp. No. 1,392,282; Sept. 27; v. 290; p. 777.

Priem, Friedrich P., Heidenheim-on-the-Brenz, Germany, assignor, by meane assignments, to The Chemical Foundation, Inc. Device for leading away and distributing fiber strips in manufacturing rovings from paper-pulp and the like. No. 1,392,283; Sept. 27; v. 290; p. 777.

Prokopowicz, Thomas, St. Louis, Mo. Mill for grinding grain. No. 1,392,219; Sept. 27; v. 290; p. 764.

Pugh, Chester J., Ida, La. Dust and dirt cap. No. 1,391,692; Sept. 27; v. 290; p. 657.

Puriton Manufacturing Corporation. (See Marsico, Gerard R., assignor.)

Quint, Michael, Hays, Kans. Socket - wrench. No. 1,392,220; Sept. 27; v. 290; p. 764.

Quint, Peter M., Hays, Kans. Chain - tightener. No. 1,392,221; Sept. 27; v. 290; p. 764.

Quinton, Osborne E., Chicago, Ill. Valve-operating mechanism for vapor-burners. No. 1,391,976; Sept. 27; v. 290; p. 715.

Rahr, Chester E. (See Overbury, F. C., and Rahr.)

Rasmussen, Rudolph C., Philadelphia, Pa. Clamping attachment for nailing-machines. No. 1,392,222; Sept. 27; v. 290; p. 764.

Rathjen, William C., St. Louis, Mo. Child's foldable toilet-chair. No. 1,391,791; Sept. 27; v. 290; p. 677.

Recker, Adolph C., Oakville, assignor to The Chase Companies, Inc., Waterbury, Conn. Making installation-loops for electric fixtures. No. 1,391,792; Sept. 27; v. 290; p. 677.

Reh, Sam, *et al.* (See Dragon, Louis, assignor.)

Reible, Joseph, *et al.* (See Dragon, Louis, assignor.)

Reif, Joseph, assignor of forty-five per cent. to F. E. Ling, Hebron, Ind. Brake mechanism for railway-cars. No. 1,391,977; Sept. 27; v. 290; p. 715.

Remington Typewriter Company. (See Seib, George A., assignor.)

Remy Electric Company. (See Conklin, Oliver F., assignor.)

Richardson, Charles M., Washington, D. C. Mail-distributing device. No. 1,391,693; Sept. 27; v. 290; p. 657.

Riddle, Logan A. and L. R., New Albany, Ind. Wire-stretching apparatus. No. 1,392,079; Sept. 27; v. 290; p. 736.

Riddle, Lyon R. (See Riddle, Logan A. and L. R.)

Ringle, James A., Hoxie, Ark. Fender. No. 1,392,223; Sept. 27; v. 290; p. 765.

Risinger, Frank V., Youngstown, Ohio, assignor to Stewart-Warner Speedometer Corporation, Chicago, Ill. Vacuum feeding device for carbureters. No. 1,391,793; Sept. 27; v. 290; p. 677.

Roberts, Park D. (See Roberts, Webster M. and P. D.)

Roberts, Webster M. and P. D., St. Joseph, Mo. Automatic cone-making machine. No. 1,392,284; Sept. 27; v. 290; p. 777.

Roberts, William T. B., Leicester, England, assignor, by mesne assignments, to United Shoe Machinery Corporation, Paterson, N. J. Sewing-machine. No. 1,391,978; Sept. 27, v. 290; p. 716.

Rodak, Abraham. (See Warshawsky, Jacob, assignor.)

Rodgers, Cloid E., Logansport, Ind. Jack-block and car-wheel clamp. No. 1,391,979; Sept. 27; v. 290; p. 716.

Roewekamp, Frederick. (See Wood, J. N., and Roewekamp.)

Rogess, Gus and N. E. Polytes, New York, N. Y. Apparatus for producing stage illusions. No. 1,391,854; Sept. 27; v. 290; p. 690.

Rohen, Dominick, Evart, Mich. Pump-operating apparatus. No. 1,392,224; Sept. 27; v. 290; p. 765.

Roof, Benjamin M., Lima, Ohio. Non-skid attachment for motor-vehicle wheels. No. 1,391,694; Sept. 27; v. 290; p. 658.

Rosen, Jessel. (See Parsons, C. A., and Rosen.)

Ross, David R., Coburg, Victoria, Australia. Superheater in steam-boilers. No. 1,392,080; Sept. 27; v. 290; p. 736.

Rutherford, Nealon D., Lansing, Mich., assignor to United Engine Company. Milking-machine. No. 1,391,980; Sept. 27; v. 290; p. 716.

Rutherford, Norman F., East Falmouth, Mass. Suspension apparatus. No. 1,391,794; Sept. 27; v. 290; p. 677.

Sachse, Paul C., St. Louis, Mo. Water-heater. No. 1,391,695; Sept. 27; v. 290; p. 658.

Safford, Louis A., St. Louis, Mo. Piston-ring. No. 1,391,795; Sept. 27; v. 290; p. 677.

Sandell, Henry K., assignor to H. S. Mills, Chicago, Ill. Wireless transmitting system. No. 1,391,855; Sept. 27; v. 290; p. 691.

Sandell, John F., Chicago, Ill. Internal-combustion engine. No. 1,391,981; Sept. 27; v. 290; p. 716.

Sarockin, Thomas and J. Magielda, Crockett, Calif. Charcoal drier and cleaner. No. 1,392,225; Sept. 27; v. 290; p. 765.

Saunders, Addison T. (See Saunders, George H., assignor.)

Saunders, George H., Akron, Ohio, assignor of one-half to A. T. Saunders, Chicopee, Mass. Cereal and making the same. No. 1,391,696; Sept. 27; v. 290; p. 658.

Schaerer, Otto, Basel, Switzerland. Gear-slotting machine. No. 1,392,226; Sept. 27; v. 290; p. 765.

Schaffer, Friedrich, Leobersdorf, near Vienna, Austria. Making railway disk wheels. No. 1,391,907; Sept. 27; v. 290; p. 700.

Schank, Harry E., assignor to The Piersen Manufacturing Company, Topeka, Kans. Engine - mounting. No. 1,391,697; Sept. 27; v. 290; p. 658.

Scheele, Walter T., Hackensack, N. J., assignor to the Government of the United States, represented by the Secretary of the Navy. Protective mixture for high explosives. No. 1,391,796; Sept. 27; v. 290; p. 678.

Schleyer, Victor, Anderson, assignor to Midwest Engine Company, Indianapolis, Ind. Deep-well-pump-lubrication system. No. 1,392,227; Sept. 27; v. 290; p. 766.

Schleyer, Victor, Anderson, assignor to Midwest Engine Company, Indianapolis, Ind. Self-maintaining lubricating system for deep-well pumps. No. 1,392,228; Sept. 27; v. 290; p. 766.

Schmidt, Albert. (See Vessey, R. B., and Schmidt.)

Schmitt, Alloys P., Buffalo, N. Y. Support for tire-casings, &c. No. 1,391,857; Sept. 27; v. 290; p. 691.

Schmidt, Frank J., assignor to A. Stein & Company, Chicago, Ill. Stamping device. No. 1,391,856; Sept. 27; v. 290; p. 691.

Schmidt, Otto. (See Bosch, C., Schmidt, and Mittasch.)

Schmidt, Richard E. (See Martin, Edgar D., assignor.)

Schneider & Cie. (See Schneider, Eugéne, assignor.)

Schneider, Eugéne, assignor to Schneider & Cie., Paris, France. Steam-turbine. No. 1,391,698; Sept. 27; v. 290; p. 659.

Schoch, Eugene P., Austin, Tex. Producing barium chlorate. No. 1,391,858; Sept. 27; v. 290; p. 691.

Scholiar, Percy W., assignor to E. R. Calthrop's Aerial Patents Limited, London, England. Retaining and releasing device for ropes, cordage, and the like. No. 1,392,260; Sept. 27; v. 290; p. 773.

Schreiber, George I., Newark, N. J. Photographic-film-supporting frame. No. 1,391,982; Sept. 27; v. 290; p. 717.

Schroeder, William, Brooklyn, N. Y., assignor to Karry-Lode Industrial Truck Company. Industrial truck. No. 1,391,699; Sept. 27; v. 290; p. 659.

Schubert, Julius J., St. Paul, Minn. Storm-sash hanger. No. 1,391,700; Sept. 27; v. 290; p. 659.

Schulze, Arthur, Berlin, Germany. Process and device for producing gullioches and the like. No. 1,391,859; Sept. 27; v. 290; p. 691.

Schuster, Karl R., Brooklyn, N. Y. Scaffold-bracket. No. 1,391,983; Sept. 27; v. 290; p. 717.

Scott, Walter V. (See Sprague, Sidney, assignor.)

Scrabic, Carl, Urbana, Ohio. Sound-box mounting. No. 1,391,797; Sept. 27; v. 290; p. 678.

Searles, Daniel, trustee. (See Pilliod, Charles J., assignor.)

Searcy, C. M. (See Gates, John W., assignor.)

Segler, Albert H., Chicago, Ill. Chuck. No. 1,391,908; Sept. 27; v. 290; p. 701.

Seib, George A., assignor to Remington Typewriter Company, Ilion, N. Y. Typewriting-machine. No. 1,391,798; Sept. 27; v. 290; p. 678.

Seifert, Martin W., Murray, Utah. Sleigh-brake. No. 1,392,229; Sept. 27; v. 290; p. 766.

Shade, Howard M., Conemaugh, Pa. Track-sander. No. 1,392,230; Sept. 27; v. 290; p. 766.

Shaw-Walker Company. (See Davis, Elmer W., assignor.)

Sherwood, William, Detroit, Mich. Water-inlet valve for flushing-tanks. No. 1,391,860; Sept. 27; v. 290; p. 692.

Shelton, William G., New York, N. Y. Automatic stop for talking-machines. No. 1,392,081; Sept. 27; v. 290; p. 736.

Shelton, William G., New York, N. Y. Universal reproducer. No. 1,392,082; Sept. 27; v. 290; p. 737.

Sherbino, Jerome F., Mountain Lakes, N. J. Timer for internal-combustion engines. No. 1,391,984; Sept. 27; v. 290; p. 717.

Sheridan Iron Works, The, *et al.* (See Clark, Le Grand L., assignor.)

Sheridan, T. W. & C. B., Company, *et al.* (See Clark, Le Grand L., assignor.)

Sherwood, William E., Canastota, N. Y. Hand-sled. No. 1,392,083; Sept. 27; v. 290; p. 737.

Shields, M. A., *et al.* (See Turner, Joseph D., assignor.)

Shimada, Masao, Kahului, Hawaii. Tire-deflator. No. 1,392,231; Sept. 27; v. 290; p. 767.

Showalter, Charles S. (See McDermott, W. R., and Showalter.)

Silno, Gaetano E., Pittsburg, Calif. Spring-tire. No. 1,391,985; Sept. 27; v. 290; p. 718.

Sikowski, Frank, Mount Carmel, Pa. Saw-set. No. 1,391,910; Sept. 27; v. 290; p. 701.

Simon, Ernest J., Guantanamo, Cuba. Ground-detector. No. 1,391,911; Sept. 27; v. 290; p. 701.

Simpson, James, and H. E. Clay, McKeesport, Pa. Apparatus for handling and forming pipe-skelp. No. 1,391,912; Sept. 27; v. 290; p. 702.

Sliter, Egbert J. (See Gamble, R., and Sliter.)

Slocomb, George W., Los Angeles, Calif. Pump. No. 1,391,799; Sept. 27; v. 290; p. 678.

Smith, Edward W., Philadelphia, Pa. Secondary or storage battery. No. 1,392,232; Sept. 27; v. 290; p. 767.

Smith, Floyd, San Diego, Calif. Water-bomb. No. 1,391,800; Sept. 27; v. 290; p. 678.

Smith, Kirk D., Wendell, N. H. Educational appliance. No. 1,391,986; Sept. 27; v. 290; p. 718.

Smith, Lewis M., Pocatello, Idaho. Device for attaching signs to glass. No. 1,391,861; Sept. 27; v. 290; p. 692.

Smith, Marvin W., Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Field-control system for synchronous booster rotary converters. No. 1,392,084; Sept. 27; v. 290; p. 737.

Smith, Maurice W., Lyndhurst, Hoddesdon, England. Quick-release bench-vise. No. 1,391,913; Sept. 27; v. 290; p. 702.

Smith, Raymond A., Philadelphia, Pa. Safety device for delivery of milk and other articles. No. 1,391,801; Sept. 27; v. 290; p. 679.

Smith Signal Corporation. (See Ware, Orington A., assignor.)

Societe Anonyme John Cockerill. (See Gendarme, Toussaint, assignor.)

Soderstrom, Oscar V. (See Stone, Reuben, assignor.)

Solar Metal Products Company. (See Gogay, Henry R., assignor.)

Sonora Phonograph Corporation. (See Herzog, John, assignor.)

Sonora Phonograph Corporation. (See Oberst, Frank, assignor.)

Sonora Phonograph Corporation. (See Wolff, Joseph, assignor.)

Sonsthagen, Asbjorn, Essex, England. Chocolate and like coating machine. No. 1,391,914; Sept. 27; v. 290; p. 702.

Sorce, Gaetano. (See Butera, J., and Sorce.)

Spangler, Charles M., Emporium, Pa. Boiler-flue tool. No. 1,391,862; Sept. 27; v. 290; p. 692.

Spencer Lens Co. (See Ott, Harvey N., assignor.)

Spengler, Henry R., Denver, Colo. Pressure-cooker. No. 1,391,863; Sept. 27; v. 290; p. 692.

Sprague, Sidney, assignor of one-half to W. V. Scott, Ossining, N. Y. Toothbrush. No. 1,392,285; Sept. 27; v. 290; p. 778.

Squarcialupi, Giovanni, *et al.* (See Barchiesi, Aurelio, assignor.)

Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,392,235; Sept. 27; v. 290; p. 767.

Stafford, Benjamin E. D., and E. I. Dodds, assignors to Flannery Bolt Company, Pittsburgh, Pa. Staybolt structure. No. 1,392,236; Sept. 27; v. 290; p. 768.

Stanbrough, Duncan G., assignor to Packard Motor Car Company, Detroit, Mich. Motor-vehicle. No. 1,391,864; Sept. 27; v. 290; p. 692.

Standard Oil Company. (See Buc, Hyym E., assignor.)

Stanfa, Joseph I., Erie, Pa. Lamp-bracket for automobile direction indicators. No. 1,391,802; Sept. 27; v. 290; p. 679.

Stanley, Buell, Washington, D. C. Signal device for motor-vehicles. No. 1,391,803; Sept. 27; v. 290; p. 679.

Stano, John, Livingston, Ill. Automobile direction-indicator and wheel-angle gage. No. 1,391,701; Sept. 27; v. 290; p. 659.

Stanton, Frederick W., Chicago, Ill. Syringe. No. 1,392,085; Sept. 27; v. 290; p. 737.

Starmer, Mary, Newport News, Va. Garment-supporter. No. 1,392,237; Sept. 27; v. 290; p. 768.

Starr, Norman S., and L. E. Collier, Moweaqua, Ill.; said Collier assignor to said Starr. Protective device. No. 1,391,915; Sept. 27; v. 290; p. 702.

Steen, Buford J., Goose Creek, Tex. Pipe-gripping device. No. 1,391,804; Sept. 27; v. 290; p. 679.

Stein, A., & Company. (See Schmidt, Frank J., assignor.)

Stevenson, Archie B. and L. L., Sonoma, Calif. Incubator-tray. No. 1,391,865; Sept. 27; v. 290; p. 693.

Stevenson, Lewis L. (See Stevenson, Archie B. and L. L.)

Stevenson, Robert M., Victoria, British Columbia, Canada. Bull-hook. No. 1,392,026; Sept. 27; v. 290; p. 726.

Stewart, Charles C., Stoddard, Ark. Wrench. No. 1,392,238; Sept. 27; v. 290; p. 768.

Stewart, James G., Dundee, Scotland. Means for producing magnifications of minute movements. No. 1,392,239; Sept. 27; v. 290; p. 768.

Stewart-Warner Speedometer Corporation. (See Risinger, Frank V., assignor.)

Stoffers, Henry, Newark, N. J. Making piston-rings. No. 1,392,027; Sept. 27; v. 290; p. 727.

Stone, Reuben, assignor of one-half to O. V. Soderstrom, Ogema, Wis. Lawn-mower sharpener. No. 1,391,702; Sept. 27; v. 290; p. 660.

Stone, Walter R., Inman, S. C. Evener-gear attachment for cotton-pickers. No. 1,391,866; Sept. 27; v. 290; p. 693.

Storer, Norman W., Pittsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for reducing commutator-flashing. No. 1,392,086; Sept. 27; v. 290; p. 737.

Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for suppressing flash-overs in rotary-converter systems. No. 1,392,087; Sept. 27; v. 290; p. 738.

Storer, Norman W., Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company. Means for reducing commutator-flashing in rotary converters. No. 1,392,088; Sept. 27; v. 290; p. 738.

Straka, John, assignor of one-half to J. R. Lewis, Chicago, Ill. Fountain-pen. No. 1,392,089; Sept. 27; v. 290; p. 738.

Strickler, John C., San Francisco, Calif. Can-soldering machine. No. 1,391,867; Sept. 27; v. 290; p. 693.

Strohbach, Erich, Vienna, Austria. Film-fire extinguisher. No. 1,392,233; Sept. 27; v. 290; p. 767.

Sturtevant Mill Company. (See Sturtevant, Thomas J., assignor.)

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Elevator. No. 1,391,703; Sept. 27; v. 290; p. 660.

Sturtevant, Thomas J., Wellesley, assignor to Sturtevant Mill Company, Boston, Mass. Elevator. No. 1,391,704; Sept. 27; v. 290; p. 660.

Subers, Lawrence A., Lakewood, Ohio. Machine for the continuous vulcanization of bands or belts. No. 1,391,805; Sept. 27; v. 290; p. 679.

Swain, Joseph G., assignor to The Firestone Steel Products Company, Akron, Ohio. Demountable-rim construction. No. 1,391,806; Sept. 27; v. 290; p. 680.

Swaim, William E., and W. C. Bryan, Los Angeles, Calif. Image producing or recording apparatus. No. 1,391,807; Sept. 27; v. 290; p. 680.

Sweet, Oliver T., St. Louis, Mo. Combination switch and distributing-panel. No. 1,391,916; Sept. 27; v. 290; p. 703.

Szarvasy, Emerich, Budapest, Hungary. Manufacture of carbon electrodes or of pure retort-carbon. No. 1,392,266; Sept. 27; v. 290; p. 774.

Szarvasy, Emerich, Budapest, Hungary: Manufacture of carbon electrodes. No. 1,392,267; Sept. 27; v. 290; p. 774.

Tambach, Rudolf, Ludwigshafen-on-the-Rhine, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Producing tannic acid compound of the digitalisglycosids. No. 1,391,705; Sept. 27; v. 290; p. 660.

Tamini, Mario, Milan, Italy. Rotary pump. No. 1,392,090; Sept. 27; v. 290; p. 738.

Teichtner, Carl, Leipsig, Germany. Permanent calendar. No. 1,391,917; Sept. 27; v. 290; p. 703.

Textile Engineering Company. (See Hale, Joshua B., assignor.)

Thacker, Aaron H. (See Grizzle, R. M., and Thacker.)

Thomas, George B., assignor to The Bryant Electric Company, Bridgeport, Conn. Electric fitting. No. 1,392,091; Sept. 27; v. 290; p. 738.

Thompson, Livingston A., Waukesha, Wis. Candy and producing. No. 1,391,918; Sept. 27; v. 290; p. 703.

Thompson, Livingston A., Waukesha, Wis. Massage apparatus. No. 1,391,919; Sept. 27; v. 290; p. 703.

Thompson, L. E., Island City, Oreg. Automobile-water-bag holder. No. 1,392,092; Sept. 27; v. 290; p. 739.

Thompson, Roy L., Bend, Oreg. Door - catch. No. 1,391,920; Sept. 27; v. 290; p. 703.

Thurston, Arthur L. (See Kirkham, C. B., and Thurston.)

Tillert, Edward, Racine, Wis. Key attachment. No. 1,391,921; Sept. 27; v. 290; p. 704.

Tirrill, Allen A., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Pivotal mounting. No. 1,392,234; Sept. 27; v. 290; p. 767.

Titus, Odeon H., Jamesville, N. Y. Smoke-purifying attachment for fuel-burning heaters. No. 1,392,093; Sept. 27; v. 290; p. 739.

Toler, William E., Pawnee, Okla. Attachment for grain-separators. No. 1,392,094; Sept. 27; v. 290; p. 739.

Topham, Laurence E., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. No. 1,391,922; Sept. 27; v. 290; p. 704.

Topoosian, Leon M., Springfield, Mass. Locking device for incandescent lamps. No. 1,391,868; Sept. 27; v. 290; p. 693.

Torbet, Mayson W., Jackson, Mich., assignor to Vibration Specialty Company, Philadelphia, Pa. Machine for determining the static and dynamic unbalance of rotating bodies. No. 1,392,028; Sept. 27; v. 290; p. 727.
Truck, Tractor, and Manufacturing Company. (See Jacobs, I. M., and Cramer, assignors.)
Tryhook, Thomas, Hamtramck, Mich. Combination sash balance and lock. No. 1,391,869; Sept. 27; v. 290; p. 693.
Tudhope, Hugh R. (See La Fay, Arthur J., assignor.)
Turk Gesellschaft m. b. H. (See Priem, Friedrich P., assignor.)
Turner, Joseph D., assignor of one-fourth to M. A. Shields and one-fourth to M. C. Giles, Huntsville, Ala. Fan for textile-mills. No. 1,392,029; Sept. 27; v. 290; p. 727.
Underwood, Ernest E., assignor to Eastman Kodak Company, Rochester, N. Y. Exposure-indicator. No. 1,391,870; Sept. 27; v. 290; p. 693.
United Engine Company. (See Rutherford, Nenlon D., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United Shoe Machinery Corporation. (See Topham, Laurence C., assignor.)
Valinski, Stanley, Homestead, Pa. Man-catching tank. No. 1,392,095; Sept. 27; v. 290; p. 739.
Vance, J. R. (See Blake, Thomas B., assignor.)
Van Der Heyden a Hauzeur, Louis, *et al.* (See Cloetens, Georges, assignor.)
Van Tuyl, John F., Minneapolis, Minn. Reversing-gear for internal-combustion engines. No. 1,391,706; Sept. 27; v. 290; p. 660.
Van Valkenburg, Herman L., assignor to Industrial Controller Company, Milwaukee, Wis. System of motor control. No. 1,391,808; Sept. 27; v. 290; p. 680.
Van Valkenburg, Herman L., assignor to Industrial Controller Company, Milwaukee, Wis. Switch-mounting. No. 1,391,809; Sept. 27; v. 290; p. 680.
Vellema, Peter. (See Corbin, H. H., and Vellema.)
Vessey, Ralph B., and A. Schmidt, assignors to Champion Ignition Company, Flint, Mich. Electric terminal. No. 1,391,810; Sept. 27; v. 290; p. 680.
Vibration Specialty Company. (See Torbet, Mayson W., assignor.)
Vick, Elihu, Nailsworth, England. Combined clutch-operating gear and brake mechanism for revolution-stamping presses. No. 1,391,923; Sept. 27; v. 290; p. 704.
Visserıng, Harry, & Company. (See White, William, assignor.)
Viviano, Philip, St. Louis, Mo. Automatic change-speed transmission. No. 1,391,707; Sept. 27; v. 290; p. 661.
Volk, Sidney, Benton Harbor, Mich. Tubular-radiator construction. No. 1,391,871; Sept. 27; v. 290; p. 694.
Wagner, Nicholas J., Chicago, Ill. Roof-truss. No. 1,392,096; Sept. 27; v. 290; p. 739.
Walch, Nicolas, Newton Highlands, assignor to Erwa Chemical Manufacturing Company, Needham, Mass. Rubber composition and making the same. No. 1,392,240; Sept. 27; v. 290; p. 768.
Wallace, Duncan M. (See Guthrie, William, assignor.)
Walls, Ernest, Bristol, England. Apparatus for manufacturing and packing candles, night-lights, and such like articles. No. 1,392,286; Sept. 27; v. 290; p. 778.
Ware, Orington A., Easton, Pa., assignor to Smith Signal Corporation, New York, N. Y. Switch. No. 1,391,924; Sept. 27; v. 290; p. 704.
Warshawsky, Jacob, assignor of one-half to A. Rodak, New York, N. Y. Rain-shield. No. 1,391,925; Sept. 27; v. 290; p. 704.
Waschek, Frank, Hamtramck, Mich. Rail-clamp. No. 1,390,030; Sept. 27; v. 290; p. 727.
Weber, Clifford A. M., Edgewood Park, Pa., assignor to Westinghouse Electric & Manufacturing Company. Electromagnetic braking device. No. 1,392,032; Sept. 27; v. 290; p. 728.
Webster, F. S., Company. (See White, Joseph A., assignor.)
Weil, Charles L., deceased, Port Huron, Mich.; E. S. Weil, administratrix. Steam system for manufacturing salt and the like. No. 1,391,811; Sept. 27; v. 290; p. 681.
Weil, Ella S., admintstratrix. (See Weil, Charles L.)
Weiss, Albert T., Rochester, assignor to Phillips & Clark Stove Company, Inc., Geneva, N. Y. Stove-leg connection. No. 1,392,033; Sept. 27; v. 290; p. 728.
Weiss, Albert T., assignor to Yawman & Erbe Manufacturing Company, Rochester, N. Y. Latch for furniture-drawers. No. 1,391,812; Sept. 27; v. 290; p. 681.
Welch, Clarence R., Denver, Colo. Pneumatic rock-drill. No. 1,391,708; Sept. 27; v. 290; p. 661.
Wells, Herbert J. C., New York, N. Y. Thermostatic device. No. 1,392,031; Sept. 27; v. 290; p. 727.
Wers, Jacob. (See Liechty, H., and Wers.)
Westerman, Frederick, Chicago, Ill. Depositing-machine. No. 1,392,034; Sept. 27; v. 290; p. 728.
Western Electric Company. (See Gent, Edgar W., assignor.)
Westinghouse Electric & Manufacturing Company. (See De Camp, Ray E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Forteccue, Charles L., assignor.)
Westinghouse Electric and Manufacturing Company. (See Hanker, Frederic C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hipple, Oliver P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hodgkins, Charles H., assignor.)
Westinghouse Electric and Manufacturing Company. (See James, H. D., and De Camp, assignors.)
Westinghouse Electric & Manufacturing Company. (See James, Henry D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kempton, Willard H., assignor.)
Westinghouse Electric and Manufacturing Company. (See Lamme, Benjamin G., assignor.)
Westinghouse Electric & Manufacturing Company. (See Lammers, Edwin S., Jr., assignor.)
Westinghouse Electric and Manufacturing Company. (See Mattman, Emil, assignor.)
Westinghouse Electric and Manufacturing Company. (See Mills, Chester B., assignor.)
Westinghouse Electric and Manufacturing Company. (See Moss, Charles M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Newbury, F. D., and James, assignors.)
Westinghouse Electric & Manufacturing Company. (See Smith, Marvin W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Storer, Norman W., assignor.)
Westinghouse Electric and Manufacturing Company. (See Tirrill, Allen A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Weber, Clifford A. M., assignor.)
Westinghouse Electric and Manufacturing Company. (See Yardley, John L. M., assignor.)
Wever, Fritz, Stuttgart, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Machine for making layer fabrics. No. 1,392,287; Sept. 27; v. 290; p. 778.
Whaley, William B. S., Malden, assignor to American Whaley Engine Company, Boston, Mass. Gate-valve. No. 1,391,987; Sept. 27; v. 290; p. 718.
White, John. (See Payne, Henry H., assignor.)
White, Joseph A., Chicago, Ill., assignor to F. S. Webster Company, Boston, Mass. Carbon binder and economiser. No. 1,391,872; Sept. 27; v. 290; p. 694.
White, S. S., Dental Manufacturing Company, The. (See Porter, Will R., assignor.)
White, William, Niles, Mich., assignor to Harry Visserıng & Company, Chicago, Ill. Fire-door for locomotives. No. 1,391,926; Sept. 27; v. 290; p. 705.
Whitling, James A., Healdton, Okla. Pump. No. 1,391,873; Sept. 27; v. 290; p. 694.
Wilhelm, Julius, St. Louis, Mo. Gasolene-gage. No. 1,391,813; Sept. 27; v. 290; p. 681.
Wilkie, J. B. (See Lillie, John A., assignor.)
Williams, French B., Dallas, Tex. Cotton-packer. No. 1,392,097; Sept. 27; v. 290; p. 740.
Williams, Nolan S., El Paso, Tex. Piston-packing. No. 1,392,035; Sept. 27; v. 290; p. 728.
Williston, Belvin T., Somerville, Mass., assignor to Manning Maxwell and Moore, Inc., New York, N. Y. Boiler-feeding injector. No. 1,392,098; Sept. 27; v. 290; p. 740.
Wilson, Henry W., Duluth, Minn. Coupling-keeper. No. 1,392,099; Sept. 27; v. 290; p. 740.
Wisconsin Chair Company, The. (See Hansen, Oswald H., assignor.)
Wolfe, Harry E., Hastings, Mich. Combination foundry-tool. No. 1,391,814; Sept. 27; v. 290; p. 681.
Wolff, Joseph, Brooklyn, N. Y., assignor to Sonora Phonograph Corporation. Talking-machine horn. No. 1,392,037; Sept. 27; v. 290; p. 728.
Wolverton, Don S., Doland, S. D. Tractor-lug. No. 1,392,100; Sept. 27; v. 290; p. 740.
Wood, Jesse N., Venice, Ill., and F. Roewekamp, St. Louis, Mo. Air and fuel heater for automobile-motors and other oil-engines. No. 1,391,709; Sept. 27; v. 290; p. 661.
Wood, William H., Darien, Conn. Outlet-box. No. 1,392,038; Sept. 27; v. 290; p. 729.
Woods, Leonard, St. Louis, Mo. Trousers-supporter. No. 1,392,241; Sept. 27; v. 290; p. 768.
Woodward, James W. (See Lynch, J. E., and Woodward.)
Wright, Parvin. (See Gerrard, A. J., and Wright.)
Yardley, John L. M., Pittsburgh, Pa., assignor to Westinghouse Electric and Manufacturing Company. Dynamo-electric machine. No. 1,392,039; Sept. 27; v. 290; v. 729.
Yawman & Erbe Manufacturing Company. (See Weiss, Albert T., assignor.)
Young, W. J., Machinery Company. (See Grover, George B., assignor.)
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Cam-actuated warp-tension-controlling mechanism for looms. No. 1,391,927; Sept. 27; v. 290; p. 705.
Youngquist, Henry W., Manchester, N. H., assignor to Draper Corporation, Hopedale, Mass. Warp-tension-controlling mechanism for looms. No. 1,391,928; Sept. 27; v. 290; p. 705.
Zents, Raymond P., Omaha, Nebr. Mold. No. 1,391,988; Sept. 27; v. 290; p. 918.
Zimmer, Carl L. V., Berlin-Wilmersdorf, Germany, assignor, by mesne assignments, to The Chemical Foundation, Inc. Converting limestone into a compressible artificial stone. No. 1,391,710; Sept. 27; v. 290; p. 661.
Zoppel, Ferdinand J., Cincinnati, Ohio. Condenser. No. 1,391,989; Sept. 27; v. 290; p. 718.

ALPHABETICAL LIST OF REGISTRANTS OF TRADE-MARKS.

Almquist, Amandus W., Orange, N. J. Liquid for intensifying and increasing the efficiency of petroleum fuels. No. 146,940; Sept. 27; v. 290; p. 803.
American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, and twine manufactured from vegetable fiber. Nos. 146,941–3; Sept. 27; v. 290; p. 803.
Amoskeag Manufacturing Company, Manchester, N. H. Cotton piece goods. No. 146,944; Sept. 27; v. 290; p. 803.
Arnold, F. R., & Co., New York, N. Y. Rouge. No. 146,945; Sept. 27; v. 290; p. 803.
Auerbach, D. & Sons, New York, N. Y. Candy. No. 147,044; Sept. 27; v. 290; p. 807.
Baird Brothers Co. Inc., Boston, Mass. Candy. No. 146,946; Sept. 27; v. 290; p. 803.
Baker, H. A., Inc., Sumner, Wash. Canned fruits and vegetables. No. 146,947; Sept. 27; v. 290; p. 803.
Barbour, J. E., Company, Paterson, N. J. Twines. No. 146,948; Sept. 27; v. 290; p. 803.
Barrett, Carl A., Chicago, Ill. Candies, particularly chocolates and bonbons. No. 146,949; Sept. 27; v. 290; p. 803.
Batts, Mrs. Alberta, Detroit, Mich. Hair-tonic and a preparation to straighten and give life to obstinate hair. No. 146,950; Sept. 27; v. 290; p. 803.
Biggs, Thomas, Limited, London, England. Chemical preparations. Nos. 146,951–2; Sept. 27; v. 290; p. 803.
Bitters, Henry G., Chicago, Ill. Pharmaceutical and toilet preparations. No. 146,953; Sept. 27; v. 290; p. 803.
Bond, W. R., & Co., Newark, N. J. General tonic. No. 146,954; Sept. 27; v. 290; p. 803.
Boorman, Kitchell M., New York, N. Y. Perfumes and face-powders. No. 146,955; Sept. 27; v. 290; p. 803.
Brach, E. J., and Sons, Chicago, Ill. Candy. No. 146,956; Sept. 27; v. 290; p. 803.
Brown, Anderson D., Chicago, Ill. Concentrated coffee essence. No. 146,957; Sept. 27; v. 290; p. 803.
Brown, Nicholas H., La Fargeville, N. Y. Insecticide. No. 146,958; Sept. 27; v. 290; p. 803.
Bryant & Company, Portland, Oreg. Canned fish and berries. No. 146,959; Sept. 27; v. 290; p. 803.
Burns, Louis G., Seattle, Wash. Candy. No. 146,960; Sept. 27; v. 290; p. 803.
Calco Chemical Company, The, Boundbrook, N. J. Medicinal preparations. No. 146,961; Sept. 27; v. 290; p. 803.
Campbell Baking Powder, Kansas City, Mo., and Wilmington, Del. Patented food ingredient adapted to be mixed with flour to make bread. No. 146,962; Sept. 27; v. 290; p. 803.
Candies, Sears, Roebuck and Company. No. 147,033; Sept. 27; v. 290; p. 806.
Capitol Refining Co., South Washington, Va. Cooking-oils produced from cotton-seed. No. 146,963; Sept. 27; v. 290; p. 803.
Capitol Refining Co., South Washington, Va. Salad-oils produced from cotton-seed. No. 146,964; Sept. 27; v. 290; p. 803.
Cessna, Charles E., Chicago, Ill. Laxative pills. No. 146,965; Sept. 27; v. 290; p. 803.
Cheramy, Incorporated, New York, N. Y. Brilliantine, face powder and cream, toilet water, &c. No. 146,966; Sept. 27; v. 290; p. 803.
Chocolate Yeast Co., Inc., New York, N. Y. Chocolate candy containing yeast. No. 146,967; Sept. 27; v. 290; p. 803.
Clifton Mfg. Company, Waco, Tex. Tents, awnings, paulins, tarpaulins, wagon-covers. Nos. 147,045–51; Sept. 27; v. 290; p. 807.
Coe & Hill, Oklahoma, Okla. Water. No. 146,969; Sept. 27; v. 290; p. 804.
Coleman and Company Limited, Norwich, England. Non-alcoholic maltless beverage. No. 146,970; Sept. 27; v. 290; p. 804.
Collins, Clyde Company, The, Memphis, Tenn. Certain tonics. No. 146,968; Sept. 27; v. 290; p. 803.
Colonial Biscuit Company, The, Philadelphia, Pa. Cakes. No. 146,971; Sept. 27; v. 290; p. 804.
Cook, Ida R., St. Louis, Mo. Cold and vanishing cream, rouge, and foot-relief in form of a massage-cream. No. 146,972; Sept. 27; v. 290; p. 804.
Corning Glass Works, Corning, N. Y. Glass. No. 147,052; Sept. 27; v. 290; p. 808.
Corn Products Refining Co., New York, N. Y. Corn-sugar. No. 146,973; Sept. 27; v. 290; p. 804.
Coty, François J. de S., Suresnes, France. Perfumes, toilet waters, face-powders, &c. No. 146,974; Sept. 27; v. 290; p. 804.
Coty, François J. de S., Suresnes, France. Perfumes, toilet waters, and brilliantine. Nos. 146,975–9; Sept. 27; v. 290; p. 804.
Coty, François J. de S., Suresnes, France. Perfumes, toilet waters, face-powders, &c. Nos. 146,980–1; Sept. 27; v. 290; p. 804.
Devoe & Raynolds Co. Inc., New York, N. Y. Paste and ready-mixed paints and wall finishes—namely, cold-water paints. No. 147,053; Sept. 27; v. 290; p. 808.
Dilling & Company, Indianapolis, Ind. Candy kisses. No. 146,982; Sept. 27; v. 290; p. 804.
Drain, Shepherd, M. D., Baltimore, Md. Remedy for constipation. No. 146,983; Sept. 27; v. 290; p. 804.
Dusco Co., The, Buffalo, N. Y. Medicine for constipation, fever, restlessness, &c. No. 146,984; Sept. 27; v. 290; p. 804.
Ellis, Mrs. K. G., Beaumont, Tex. Medicine for the treatment of the kidneys and bladder. No. 146,985; Sept. 27; v. 290; p. 804.
Finkenstein, Abraham, Omaha, Nebr. Flavoring-matter used in the preparation of pastries, jellies, &c. No. 146,986; Sept. 27; v. 290; p. 804.
Gardner, Henry A., Washington, D. C. Dechlorinated oils with or without resin additions. No. 146,987; Sept. 27; v. 290; p. 804.
Garwood, William C., Seattle, Wash. Candy. No. 147,054; Sept. 27; v. 290; p. 808.
Gowan-Lenning-Brown Co., Duluth, Minn. Canned, pickled, or dried fish. No. 146,989; Sept. 27; v. 290; p. 804.
Griffith, Margaret J., Wallasey, England. Antiseptics. No. 146,990; Sept. 27; v. 290; p. 804.
Groves, Dr. M. F., Son & Co., Philadelphia, Pa. Medicinal preparation for infantile troubles. No. 146,991; Sept. 27; v. 290; p. 804.
Hall & Ruckel, New York, N. Y. Medicinal preparation. No. 146,992; Sept. 27; v. 290; p. 804.
Hall & Ruckel, New York, N. Y. Preparation for use in the treatment of stomach troubles. No. 146,993; Sept. 27; v. 290; p. 804.
Hall, Walter T., & Co., Ottumwa, Iowa. Candies. No. 146,994; Sept. 27; v. 290; p. 804.
Haritopol, John, Tampa, Fla. Grapefruit paste. No. 146,995; Sept. 27; v. 290; p. 804.
Helm Candy Co., Lancaster, Pa. Candy. No. 146,996; Sept. 27; v. 290; p. 804.
Heyers & Vanriker, Bloomfield, N. J. Insecticide. No. 146,997; Sept. 27; v. 290; p. 804.
Hood River Apple Vinegar Co., Hood River, Oreg. Cider and carbonated beverage. No. 147,055; Sept. 27; v. 290; p. 808.
Houghton, E. F., & Co., Philadelphia, Pa. Preparation of an oily nature for treating textile fabrics. No. 146,998; Sept. 27; v. 290; p. 804.
Hoyt, Howard H., Candy Co., Chicago, Ill. Candy. No. 146,999; Sept. 27; v. 290; p. 804.
Hydrex Corporation, The, New York, N. Y.; Rahway, N. J.; Chicago, Ill., and Washington, D. C. Certain construction materials. No. 147,056; Sept. 27; v. 290; p. 808.
Hyman & Oppenheim, New York, N. Y. Commodity for removing dye from hair. No. 147,000; Sept. 27; v. 290; p. 805.
India Company, The, Newark, N. J. Chewing-gum. No. 147,001; Sept. 27; v. 290; p. 805.
Josey Miller Co., Beaumont, Tex. Poultry feed. No. 147,002; Sept. 27; v. 290; p. 805.
Kaffir Chemical Laboratories, Omaha, Nebr. Tooth-paste. No. 147,003; Sept. 27; v. 290; p. 805.
Kelly, P. M., Dalhert, Tex. Spurs and bits. No. 147,057; Sept. 27; v. 290; p. 808.
Kellogg, Spencer, & Sons, Inc., Buffalo, N. Y. Castor-oil. No. 147,004; Sept. 27; v. 290; p. 805.
Kerlin, Lucretia B., Chester, Pa. Certain toilet preparations. No. 147,005; Sept. 27; v. 290; p. 805.
Kuhlbach, William F., Fort Wayne, Ind. General tonic made from root, herb, and berry extract. No. 147,006; Sept. 27; v. 290; p. 805.
Lady Christabel Company, Norfolk, Va. Talcum powder, facial cream, face-powder, talc, and a tissue-builder. No. 147,007; Sept. 27; v. 290; p. 805.
Loewus, G., & Co., Jersey City, N. J. Barley-malt extract. No. 147,008; Sept. 27; v. 290; p. 805.
Lloyd Garretson Co., Yakima, Wash. Fresh deciduous fruits. No. 146,988; Sept. 27; v. 290; p. 804.
Luick, William F., Milwaukee, Wis. Shipping-containers for ice-cream, ices, and frozen custard. No. 147,058; Sept. 27; v. 290; p. 808.
Maddaloni, Donato, Plainfield, N. J. General tonic. No. 147,009; Sept. 27; v. 290; p. 805.
Mazomui Company, The, Scranton, Pa. Medicinal food tonic. No. 147,010; Sept. 27; v. 290; p. 805.
Mercer, Samuel R., Seattle, Wash. Popcorn and nut confectionery. No. 147,011; Sept. 27; v. 290; p. 805.
Meyer Brothers Drug Company, St. Louis, Mo. Medicine, chemicals, and pharmaceutical preparations. No. 147,012; Sept. 27; v. 290; p. 805.
Moore, J. Johnston, Montgomery, Ala. Medicinal and toilet preparations. No. 147,014; Sept. 27; v. 290; p. 805.

Mother's Remedies Company, The, Chicago, Ill. Ointment. No. 147,015; Sept. 27; v. 290; p. 805.
Newark Tortoise Shell Novelty Co., Newark, N. J. Hair-receivers, bottle-holders, salve-jars, pin boxes and trays. No. 147,059; Sept. 27; v. 290; p. 808.
Pearson, A. A., Greensboro, Ga. Certain medicinal preparations. No. 147,017; Sept. 27; v. 290; p. 805.
Perkins-Campbell Company, The, Cincinnati, Ohio. Saddles, collars, and harness parts. No. 147,060; Sept. 27; v. 290; p. 808.
Peters, M. C., Mill Co., Omaha, Nebr. Live poultry. No. 147,013; Sept. 27; v. 290; p. 805.
Physician's Drug Manufacturing Association, Wilmington, Del., and Springfield, Mass. Alkaline antiseptic, tonic, laxative, and nerve-tonic. No. 147,018; Sept. 27; v. 290; p. 805.
Pickering, William S., Lynn, Mass. General tonic. No. 147,019; Sept. 27; v. 290; p. 805.
Riley, Clarissa L., Canton, Miss. Hair-tonic. No. 147,020; Sept. 27; v. 290; p. 805.
Riveroyll & Guzman Company, San Antonio, Tex. Preparation for the treatment of tired feet, rheumatism, and nervous pains. No. 147,021; Sept. 27; v. 290; p. 805.
Rodriguez, Justo J., Scranton, Pa. Face powders and creams, face-powder compacts, and perfumes. No. 147,022; Sept. 27; v. 290; p. 805.
Rodriguez, Valentin, New York, N. Y. Spanish paprika. No. 147,023; Sept. 27; v. 290; p. 805.
Rusticide Company, The, Cleveland, Ohio. Chemical preparation for removing rust. No. 147,024; Sept. 27; v. 290; p. 805.
Salikof, Abraham, Philadelphia, Pa. Toilet waters, perfumes, massage-creams, and shampoo preparations. No. 147,025; Sept. 27; v. 290; p. 805.
San Antonio Drug Co., San Antonio, Tex. Disinfectant, insecticide, and deodorizer. No. 147,026; Sept. 27; v. 290; p. 805.
San Antonio Drug Co., San Antonio, Tex. Disinfectant and insecticide. No. 147,027; Sept. 27; v. 290; p. 805.
San Antonio Drug Co., San Antonio, Tex. Gargle and nasal spray. No. 147,028; Sept. 27; v. 290; p. 805.
San Antonio Drug Co., San Antonio, Tex. Certain Medicinal preparations. No. 147,029; Sept. 27; v. 290; p. 805.
Sanitol Chemical Laboratory Co., St. Louis, Mo. Certain toilet and pharmaceutical preparations. No. 147,030; Sept. 27; v. 290; p. 805.
Stearns & Foster Company, The, Lockland, Ohio. Cotton-batting. Nos. 147,062–4; Sept. 27; v. 290; p. 809.
Strantza Company, New York, N. Y. General tonic. No. 147,038; Sept. 27; v. 290; p. 806.
Scalp Germicide Company, The, Youngstown, Ohio. Certain germicidal preparations. No. 147,031; Sept. 27; v. 290; p. 805.
Scranton Distributing and Manufacturing Company, Scranton, Pa. General tonic. No. 147,032; Sept. 27; v. 290; p. 806.
Severa, W. F., Co., Cedar Rapids, Iowa. Medicine for the blood. No. 147,034; Sept. 27; v. 290; p. 806.
Smith and Harrison, Washington, D. C. Cough-syrup. No. 147,036; Sept. 27; v. 290; p. 806.
Smith-Frank Packing Co., Sacramento, Calif. Canned fruits, fruit salad, and vegetables and dried fruits. No. 147,035; Sept. 27; v. 290; p. 806.
Sparks Milling Company, Terre Haute, Ind. Wheat-flour. No. 147,037; Sept. 27; v. 290; p. 806.
Thall, David, Manchester, N. H. Corn-salve. No. 147,039; Sept. 27; v. 290; p. 806.
Tisco Company, The, Chicago, Ill. Non-alcoholic beverage. No. 147,065; Sept. 27; v. 290; p. 809.
Twitchell-Champlin Company, Portland, Me., and Boston, Mass. Certain foods. No. 147,040; Sept. 27; v. 290; p. 806.
Twitchell-Champlin Company, The, Portland, Me., and Boston, Mass. Cream-tartar, baking-soda, sulfur, and Epsom salts. No. 147,041; Sept. 27; v. 290; p. 806.
U. S. Oil & Supply Co., Providence, R. I. Fulling and scouring oil. No. 147,016; Sept. 27; v. 290; p. 805.
U. S. Specialty Mfg. Co., Somerville, Mass. Dry-cleaning preparation for leather and fabric. No. 147,061; Sept. 27; v. 290; p. 808.
Vanity Fair Studios, Inc., Philadelphia, Pa. Photographs. No. 147,066; Sept. 27; v. 290; p. 809.
Weightman Chemical Company, Greensburg, Pa. Certain liniment. No. 147,042; Sept. 27; v. 290; p. 806.
Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candies. No. 147,043; Sept. 27; v. 290; p. 806.
Whittemore Brothers Corporation, Cambridge, Mass. Dressing and cleaners for articles made of leather and fabric. No. 147,067; Sept. 27; v. 290; p. 809.

ALPHABETICAL LIST OF TRADE-MARK APPLICANTS.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acme Fishing Tool Company, Parkersburg, W. Va. Oil-well drilling and fishing tools. No. 147,329; Sept. 27; v. 290; p. 792.
Adams, Franklin P., New York, N. Y. Newspaper-column. No. 150,796; Sept. 27; v. 290; p. 800.
Air-O-Mix Corporation, The, New York, N. Y. Stirring-machines for mixing or aerating liquids or semisolids. Nos. 147,393–4; Sept. 27; v. 290; p. 792.
American Metal Polish Co., Somerville, Mass. Metal-polish. No. 149,165; Sept. 27; v. 290; p. 798.
Anderson, Joseph R., Louisville, Ky. Blade sharpening and stropping machines. No. 148,828; Sept. 27; v. 290; p. 796.
Anti-Corrosion Engineering Co., Inc., New York, N. Y. Apparatus for treating water or other liquids to render same non-corrosive. No. 145,052; Sept. 27; v. 290; p. 787.
Associated Merchandising Corporation, Newark, N. J., and New York, N. Y. Children's shoes of leather. No. 139,928; Sept. 27; v. 290; p. 783.
Axton Fisher Tobacco Company, Louisville, Ky. Cigarettes. No. 141,344; Sept. 27; v. 290; p. 784.
Bakal, S., & Son, New York, N. Y. Dress-shields. No. 140,773; Sept. 27; v. 290; p. 784.
Baren, Lehrman & Berler, Inc., New York, N. Y. Men's overcoats, suits, vests, trousers, coats. No. 146,515; Sept. 27; v. 290; p. 790.
Barris, Gilbert, Los Angeles, Calif. Piston pins and valves of internal-combustion engines. No. 147,546; Sept. 27; v. 290; p. 793.
Bassick Company, The, Bridgeport, Conn. Casters. No. 150,001; Sept. 27; v. 290; p. 799.
Bennett, A., & Co., New York, N. Y. Crates for fruits and vegetables. No. 151,255; Sept. 27; v. 290; p. 801.
Blumenthal, Sidney, & Co. Inc., New York, N. Y. Pile fabric in the piece. No. 151,705; Sept. 27; v. 290; p. 802.
Boardman, Walter L., Blossom, Tex. Hand-tool for cleaning spark-plugs. No. 145,606; Sept. 27; v. 290; p. 788.
Booth, Julius D., & Son, Inc., New York, N. Y. Wool and serge goods in the piece. No. 149,734; Sept. 27; v. 290; p. 798.
Bouaman Manufacturing Company, Grand Rapids, Mich. Gasolene and oil stills. No. 147,333; Sept. 27; v. 290; p. 792.
Boyle-Dayton Co., The, Los Angeles, Calif. Pumps and compressors. No. 148,121; Sept. 27; v. 290; p. 795.
Brooklyn Galvanizing & Mfg. Co. Inc., New York, N. Y. Iron, steel, and alloy sheets, wire, tin plates, &c. No. 143,480; Sept. 27; v. 290; p. 785.
Bull Dog Lock Washer Co., The, Baltimore, Md. Lock-washers. No. 138,314; Sept. 27; v. 290; p. 782.
Burton Bros. & Co., New York, N. Y. Cotton piece goods. No. 151,607; Sept. 27; v. 290; p. 802.
California Cotton Mills Company, Oakland, Calif. White Cotton piece goods. No. 150,513; Sept. 27; v. 290; p. 800.
Carson, Madge S., Greenwich, Conn. Scarfs for personal wear. No. 148,871; Sept. 27; v. 290; p. 797.
Chemical Construction Company, Charlotte, N. C. Acid-concentrators. No. 111,376; Sept. 27; v. 290; p. 779.
Cincinnati Aluminum Casting Company, The, Cincinnati, Ohio. Aluminum foot-rests, heel-rests, door-mats, and foot-mats. No. 147,818; Sept. 27; v. 290; p. 793.
Claflins Incorporated, New York, N. Y. Cotton piece goods. No. 151,710; Sept. 27; v. 290; p. 802.
Colgate & Co., Jersey City, N. J., and New York, N. Y. Soap pellets. No. 149,847; Sept. 27; v. 290; p. 799.
Converse Rubber Shoe Company, The, Malden, Mass. Boots and shoes made of rubber or fabric and rubber. No. 143,807; Sept. 27; v. 290; p. 785.
Corona Typewriter Company, Inc., Groton, N. Y. Instruction books and charts for teaching typewriting. No. 147,406; Sept. 27; v. 290; p. 792.
Davis-Bournonville Company, New York, N. Y., and Jersey City, N. J. Cast-iron welding sticks or rods. No. 147,283; Sept. 27; v. 290; p. 791.
Dexter Yarn Company, Pawtucket, R. I. Mercerized mending-cotton. No. 145,674; Sept. 27; v. 290; p. 788.
Dille & McGuire Mfg. Co., Richmond, Ind. Lawn-mowers. No. 144,514; Sept. 27; v. 290; p. 786.
Dillmeier, Josephine M., Company, New York, N. Y. Casserole-holders of base metal. No. 146,254; Sept. 27; v. 290; p. 789.
Direct Coffee Mills, Texarkana, Ark. Coffee. No. 147,417; Sept. 27; v. 290; p. 792.
Dolan, Thomas P., Pittsburgh, Pa. Calendars. No. 150,803; Sept. 27; v. 290; p. 801.
Domestic Products Co., The, Dayton, Ohio. Dresses and skirts. No. 146,699; Sept. 27; v. 290; p. 790.
Doyle Juvenile Shoe Co., Chicago, Ill. Children's leather and fabric shoes of all kinds. No. 146,255; Sept. 27; v. 290; p. 789.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Edlis Barbers' Supply Co., The, Pittsburgh, Pa. Razors. No. 145,618; Sept. 27; v. 290; p. 788.
Electric Steel & Forge Company, Cleveland, Ohio. Steel bars, plates, shapes, and steel castings and forgings. No. 148,725; Sept. 27; v. 290; p. 796.
Ely & Walker Dry Goods Company, St. Louis, Mo. Dress and work shirts, overalls, jumpers, jackets, coats, &c. No. 143,551; Sept. 27; v. 290; p. 781.
Empire Stamping Tool & Mfg. Co., St. Louis, Mo. Wear-plates for shoes. No. 146,629; Sept. 27; v. 290; p. 790.
Engineering Magazine Company, The, New York, N. Y. Printed publications issued monthly. No. 149,690; Sept. 27; v. 290; p. 798.
Epstein, Chas., Douglis Co., The, Rochester, N. Y. Men's and young men's suits and overcoats. No. 142,753; Sept. 27; v. 290; p. 784.
Erlenger, August, New York, N. Y. Medicinal preparation for treatment of cholelithiasis, &c. No. 147,824; Sept. 27; v. 290; p. 793.
Excelsior Quilting Company, New York, N. Y. Quilted mattress-protectors, table-pads, paddings, and nursery-cloth. No. 148,202; Sept. 27; v. 290; p. 795.
Farran, K. B., Burlington, Iowa. Concentrated extract of malt sugar used for food purposes. No. 145,015; Sept. 27; v. 290; p. 786.
Falk American Potato Flour Corporation, Pittsburgh, Pa. Potato-flour. No. 139,027; Sept. 27; v. 290; p. 782.
Far East Products Co., Yonkers, N. Y. Face powders, cold-creams, &c. No. 145,888; Sept. 27; v. 290; p. 789.
Federal Rubber Company, The, Cudahy, Wis. Heels and soles made wholly or partly of rubber. No. 146,885; Sept. 27; v. 290; p. 791.
Federal Rubber Company, The, Cudahy, Wis. Heels and soles made wholly or partly of rubber. No. 146,892; Sept. 27; v. 290; p. 791.
Federal Rubber Company, The, Cudahy, Wis. Heels and soles made wholly or partly of rubber. No. 146,899; Sept. 27; v. 290; p. 791.
Fire-Proof Furniture and Construction Company, New York, N. Y., and Miamisburg, Ohio. Safes and office-safes made wholly or partly of sheet metal. No. 93,491; Sept. 27; v. 290; p. 779.
Fire-Proof Furniture and Construction Company, New York, N. Y., and Miamisburg, Ohio. Filing-cases, cabinets, &c. No. 93,492; Sept. 27; v. 290; p. 779.
Fisch, Abraham, Los Angeles, Calif. Hooded coats and bath-robes. No. 133,774; Sept. 27; v. 290; p. 780.
Fishelov, H., & Company, Chicago, Ill. Toys. No. 138,437; Sept. 27; v. 290; p. 782.
Fitzgerald, John W., Boston, Mass. Both filing and mailing envelops, file-folders and file-pockets. No. 142,363; Sept. 27; v. 290; p. 784.
Fort Smith Garment Co., Fort Smith, Ark. Men's and boys' overalls, overall-coats, and pants. No. 143,366; Sept. 27; v. 290; p. 785.
Fownes Brothers & Co., London, England, and Gloversville, Amsterdam, and New York, N. Y., assignors to Fownes Brothers & Co., Incorporated, New York, N. Y. Fabric gloves. No. 133,304; Sept. 27; v. 290; p. 780.
Fox, Fontaine, New York, N. Y. Series of cartoons. Nos. 150,605–7; Sept. 27; v. 290; p. 800.
Gaunt, Alfred C., Methuen, Mass. Suits, overcoats, ulsters, mackintoshes, &c. No. 137,809; Sept. 27; v. 290; p. 781.
George W. Blabon Company, The, Philadelphia, Pa. Linoleum. Nos. 151,350–1; Sept. 27; v. 290; p. 801.
Globe Grain & Milling Company, Los Angeles, Calif. Poultry food, animal-feeding stuffs, vegetable oils for cooking, &c. No. 137,935; Sept. 27; v. 290; p. 782.
Goldberg Padding Machine Company, The, Cincinnati, Ohio. Sewing-machines. No. 134,308; Sept. 27; v. 290; p. 781.
Gottlieb Bros., New York. Fur garments. No. 145,507; Sept. 27; v. 290; p. 787.
Gray, John, & Company Limited, Glasgow, Scotland. Fruit jams, jellies, preserves, and marmalade. No. 141,167; Sept. 27; v. 290; p. 784.
Hall, William, & Co. Limited, Studley, England. Needles, toilet-pins, hodkins, &c. No. 136,704; Sept. 27; v. 290; p. 781.
Hamilton Brown Shoe Company, The, Boston, Mass. Leather boots and shoes. No. 140,332; Sept. 27; v. 290; p. 783.
Hawkins, Edwin C., Paducah, Ky. Wheat-flour. No. 138,560; Sept. 27; v. 290; p. 782.
Helt Miller Lau Co., Fort Wayne, Ind. Candy. No. 145,018; Sept. 27; v. 290; p. 787.
Henningsen Produce Co., Butte, Mont. Butter, eggs, ice-cream, cheese, &c. No. 145,400; Sept. 27; v. 290; p. 787.
Hess, Horace H., Pine Grove, Pa. Textile-fabric underwear. No. 146,706; Sept. 27; v. 290; p. 790.
Hewett, Mary E., San Francisco, Calif. Misses' and children's outer garments, rompers, and dresses. No. 131,389; Sept. 27; v. 290; p. 780.
Hongue-Sprague Corp., Lynn, Mass. Collapsible cardboard hat-boxes. No. 150,448; Sept. 27; v. 290; p. 800.
Hollins, William, & Company Limited, London and Mansfield, England. Men's and boys' vests, pants, combinations, ladies' and children's vests, &c. No. 146,507; Sept. 27; v. 290; p. 790.
Hughes & Bretteli, New York, N. Y. House organs, pamphlets, folders, and booklets. No. 150,860; Sept. 27; v. 290; p. 801.
Humason Manufacturing Company, The, Bristol, Conn. Coil and flat springs and screw-machine products. No. 148,331; Sept. 27; v. 290; p. 795.
Hyman, Maurice C., Rochester, N. Y. Infants' and children's boots and shoes of leather, rubber, &c. No. 133,968; Sept. 27; v. 290; p. 781.
Imperial Children's Shoe Corporation, Rochester, N. Y. Leather shoes for children. No. 145,833; Sept. 27; v. 290; p. 788.
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y. Mining machinery, rock and hammer drills, &c. No. 146,767; Sept. 27; v. 290; p. 790.
Jiffy-Andy Toe Protector Co., Allentown, Pa. Toe-protectors. No. 148,143; Sept. 27; v. 290; p. 796.
Johnson, George S., Detroit, Mich. Face-cream. No. 140,040; Sept. 27; v. 290; p. 783.
Jucklns & McCormick Company, New York, N. Y. Satin cloth in piece goods. No. 150,619; Sept. 27; v. 290; p. 800.
Klein Manufacturing Company, The, Cleveland, Ohio. Paints for wood, iron, tin, &c. No. 128,212; Sept. 27; v. 290; p. 780.
Kob & Kaplan, New York, N. Y. Hosiery, underdrawers, undershirts and union-suits. No. 143,988; Sept. 27; v. 290; p. 785.
Kolar, G. S., Laboratories, Chicago, Ill. Complexion-meal, nail-polish, antiseptic-oil, brilliantine, bandoline, &c. No. 146,505; Sept. 27; v. 290; p. 790.
Kovacs, Koloman, Busquesne, Pa. Sweet spirit niter, spirit camphor, and ammonia, &c. No. 147,926; Sept. 27; v. 290; p. 794.
Lang Bros. Inc., New York, N. Y. Cotton piece goods. No. 146,883; Sept. 27; v. 290; p. 790.
Lavac, Arthur, Cicero, Ill. Hair-grower. No. 146,919; Sept. 27; v. 290; p. 791.
Lazarus, Joseph, Company, The, Cincinnati, Ohio. Ladies' hats. No. 146,178; Sept. 27; v. 290; p. 789.
Lewis, John S., Syracuse, N. Y. Dish-scraper. No. 144,462; Sept. 27; v. 290; p. 785.
Long, Tony, Chicago, Ill. Liquid preparation for the alleviation of rheumatism. No. 144,865; Sept. 27; v. 290; p. 786.
Marietta Paint & Color Co., The, Marietta, Ohio. Paints, automobile paint, enamels, varnish, ground color, &c. No. 149,013; Sept. 27; v. 290; p. 797.
Maurer, Oscar E., San Francisco, Calif. Non-alcoholic malt beverage. No. 145,470; Sept. 27; v. 290; p. 787.
Merchant, Willis J., Oroville, Calif. Cleaner and polisher for cleaning and polishing pianos and furniture. No. 149,140; Sept. 27; v. 290; p. 797.
Miller Rubber Company, The, Akron, Ohio. Rubber belts for personal wear. No. 146,454; Sept. 27; v. 290; p. 789.
Mitchell, John R., Brooklyn, N. Y. Soaps, soap powder, dish-washing compound, &c. No. 148,394; Sept. 27; v. 290; p. 796.
Mohr, C. H., and Company, Chicago, Ill. Liquid preparation for the alleviation of diseases of horses. No. 149,141; Sept. 27; v. 290; p. 797.
Myerson, Amson L., Philadelphia, Pa. Dress and negligée shirts, men's underwear, &c. No. 138,583; Sept. 27; v. 290; p. 782.
Naamloose Vemootschap Ollefabricken Insulinde, Amsterdam, Netherlands. Soaps. No. 135,896; Sept. 27; v. 290; p. 781.
National Safety Council, Chicago, Ill. Pamphlets, circulars, and printed books. No. 150,552; Sept. 27; v. 290; p. 800.
National Trading Company, Chicago, Ill. Hair-nets. No. 151,519; Sept. 27; v. 290; p. 802.
National Trading Company, Chicago, Ill. Hair-nets. No. 149,926; Sept. 27; v. 290; p. 799.
Neoftos, Nick, Chicago, Ill. Cleaning fluid and dry cleaner for cleaning cloth and leather goods. No. 134,262; Sept. 27; v. 290; p. 781.
Novia Candy Co. Inc., Brooklyn, N. Y. Chocolates and candies. No. 147,253; Sept. 27; v. 290; p. 791.
Oliver-Sherwood Co., The, San Francisco, Calif. Journal bearings for rotating machinery. No. 143,290; Sept. 27; v. 290; p. 785.
Olson Rug Company, Chicago, Ill. Woven rugs and carpets. No. 144,833; Sept. 27; v. 290; p. 786.
Oneida Community, Limited, Oneida, N. Y. Table flatware, plated and nickel. No. 147,637; Sept. 27; v. 290; p. 793.
Pagoda Import Company, Inc., New York and Brooklyn, N. Y. Hair-nets. No. 151,559; Sept. 27; v. 290; p. 802.
Peirce, Louis W., Cleveland, Ohio. Merchants' trade-discount stamps. No. 150,929; Sept. 27; v. 290; p. 801.
Peters & Herron Co., The, Columbus, Ohio. Knitted fabrics and textile lap and carriage robes and blankets. No. 147,255; Sept. 27, v. 290; p. 791.
Phillips, A., & Co. Inc., New York, N. Y. Slippers and shoes of felt, &c. No. 146,388; Sept. 27; v. 290; p. 789.
Poix, G. M., Inc., Brooklyn, N. Y. Brassières. No. 147,045; Sept. 27; v. 290; p. 791.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 3, 1907.]

Prunier, G., & Cie., Paris, France. Concentrated food for infants, invalids, and convalescents. No. 147,984; Sept. 27; v. 290; p. 794.

Prym, William Company, Limited, The, Stolberg, Germany. Snap-fasteners. No. 148,616; Sept. 27; v. 290; p. 796.

Randazzo, Isidoro, Kansas City, Mo. Medicinal preparations for stomach, liver, and kidney troubles. No. 147,467; Sept. 27; v. 290; p. 792.

Readers' Publishing Corporation, New York; N. Y. Monthly publications. No. 151,021; Sept. 27; v. 290; p. 801.

Reinig, John P., Buffalo, N. Y. Printed game-sheet. No. 148,763; Sept. 27; v. 290; p. 796.

Reusche, L., & Co., New York, N. Y. Glassware, china, and pottery, decorated materials; No. 119,814; Sept. 27; v. 290; p. 779.

Rice & Adams Corporation, Buffalo, N. Y. Bottle-washers, dish-washers, milk-bottle fillers and cappers, &c. No. 149,148; Sept. 27; v. 290; p. 797.

Rieser Company, The, New York, N. Y. Hair-nets. No. 147,315; Sept. 27; v. 290; p. 792.

Rockford Malleable Iron Works, Rockford, Ill. Iron and steel castings and forgings. No. 148,761; Sept. 27; v. 290; p. 796.

Rose, Dwight C., Cambridge, Mass. Medicated confection useful in stimulating the process of digestion. No. 148,168; Sept. 27; v. 290; p. 795.

Rosenblum, Abe, Brooklyn, N. Y. Potatoes, onions, apples, cabbages, turnips, beets, and carrots in their natural state. No. 143,104; Sept. 27; v. 290; p. 784.

Rusk Oil Co. of Philadelphia, Pa., Philadelphia, Pa. Motor-lubricating oil. No. 140,544; Sept. 27; v. 290; p. 783.

Samstag & Hilder Bros., New York, N. Y. Talcum powder. No. 149,151; Sept. 27; v. 290; p. 798.

San Antonio Machine & Supply Company, San Antonio, Tex. Internal-combustion engines. No. 148,243; Sept. 27; v. 290; p. 795.

Sanitation and Supply Company, The, New York, N. Y. Liquid compound for cleaning wood, metal, painted, and similar surfaces. No. 149,872; Sept. 27; v. 290; p. 799.

Scientific Farming Machinery Company, Minneapolis, Minn. Tillers comprising a plow and a soil-disintegrator. No. 145,595; Sept. 27; v. 290; p. 787.

Scott Tobacco Company, Bowling Green, Ky. Plug, twist, and smoking tobacco. No. 133,939; Sept. 27; v. 290; p. 781.

Sheet Metal Specialty Company, Pittsburgh, Pa. Metal cans. No. 151,065; Sept. 27; v. 290; p. 801.

Sidney Blumenthal & Co. Inc., New York, N. Y. Pile fabrics in the piece. Nos. 151,702–3; Sept. 27; v. 290; p. 802.

Simple Simon Manufacturing Company, Wilmington, Del., and Philadelphia, Pa. Children's dresses and rompers. No. 145,654; Sept. 27; v. 290; p. 788.

Smith, Arthur S., Motors, Inc., Portland, Oreg. Manifolds, fuel-economizers for hydrocarbon internal-combustion motors. No. 147,896; Sept. 27; v. 290; p. 794.

Societe Anonyme des Ateliers Borel Profil, Peseux, Switzerland. Machine tools for working metals, wood, celluloid, &c. Nos. 139,338–9; Sept. 27; v. 290; p. 783.

Somervell Brothers Limited, Kendal, England. Boots and shoes all made of leather. No. 142,035; Sept. 27; v. 290; p. 784.

Standard Asphalt & Refining Co., Chicago, Ill. Expansion-joint fillers for street-pavement, alleys, roads, &c. No. 151,640; Sept. 27; v. 290; p. 802.

Strauss, Max, New York, N. Y. Silk, woolen, cotton, &c., piece goods. No. 149,983; Sept. 27; v. 290; p. 799.

Superior Sheet Steel Company, The, Louisville, Ohio. Rolled steel sheets having a copper content. No. 148,038; Sept 27; v. 290; p. 794.

T. & T. Dandruff Remedy Company, East St. Louis, Ill. Dandruff remedy. No. 147,807; Sept. 27; v. 290; p. 793.

Thurman, Mrs. Francis, Casper, Wyo. Face-powder, rouge, toilet-waters, &c. No. 147,538; Sept. 27; v. 290; p. 793.

Tiros Valve Syndicate, The, London, England. Combined pressure and vacuum valves. No. 148,406; Sept. 27; v. 290; p. 796.

Turbine Air Tool Company, The, Cleveland, Ohio. Pneumatic drills, planers, grinders, valve-grinders, and sanding-machines. No. 132,897; Sept. 27; v. 290; p. 780.

Ubrey, Felix, Chicago, Ill. Powder-puffs. No. 133,291; Sept. 27; v. 290; p. 780.

United States Rubber Company, New Brunswick, N. J., and New York, N. Y. Boots, shoes, and slippers. No. 144,651; Sept. 27; v. 290; p. 786.

Universal Industrial Corporation, Hackensack, N. J. Hose-clamps. Nos. 149,830–1; Sept. 27; v. 290; p. 799.

Vanderporten, Geo., New York, N. Y. Shoes of leather. No. 146,405; Sept. 27; v. 290; p. 789.

Vaughan & Bushnell Manufacturing Company, Chicago, Ill. Ratchet-braces, breast-drills, hammers, hatchets, &c. No. 148,099; Sept. 27; v. 290; p. 794.

Vulcan Crucible Steel Co., Aliquippa, Pa. Steel. No. 149,786; Sept. 27; v. 290; p. 798.

Wachusett Shirt Co., Leominster, Mass. Men's shirts, night-robes, and pajamas. No. 130,632; Sept. 27; v. 290; p. 789.

Wallner, Henry, & Son, Hoboken, N. J. Linings for tam-o'-shanter hats and bonnets. No. 145,863; Sept. 27; v. 290; p. 788.

Ward Baking Company, New York, N. Y. Cake. No. 145,663; Sept. 27; v. 290; p. 788.

Weiss, Cornelius, Inc., Brooklyn, N. Y. Boys' and men's hats. No. 145,299; Sept. 27; v. 290; p. 787.

White Tar Company, The, New York, N. Y. Dyes. No. 149,159; Sept. 27; v. 290; p. 798.

Whittaker, Arthur, Manchester, England. Non-alcoholic extracts, essences, and prepared syrups used in drinks. No. 125,142; Sept. 27; v. 290; p. 779.

Wm. Schluderberg-T. J. Kurdle Co., The, Baltimore, Md. Lards. No. 144,479; Sept. 27; v. 290; p. 786.

Wortendyke Manufacturing Co., Richmond, Va. Paper bags. No. 149,304; Sept. 27; v. 290; p. 798.

Wyman, Partridge & Co., Minneapolis, Minn. Knit underwear and sweaters, &c. No. 144,700; Sept. 27; v. 290; p. 786.

York Milk Machinery Company, York, Pa. Bottle-crates. No. 149,667; Sept. 27; v. 290; p. 798.

Zwiebelson, Abraham, New York, N. Y. Brassières and corsets. No. 143,238; Sept. 27; v. 290; p. 785.

ALPHABETICAL LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 27TH DAY OF SEPTEMBER, 1921.

NOTE.—Arranged in accordance with the first significant character or word of the name. (In accordance with city and telephone directory practice.)

Acid compound of the digitaliseglycosids, Producing tannic. R. Tambach. No. 1,391,705; Sept. 27; v. 290; p. 660.

Airplane landing-gear. G. H. Curtiss. No. 1,392,272; Sept. 27; v. 290; p. 775.

Airplane landing-gear. C. B. Kirkham and A. L. Thurston. No. 1,392,277; Sept. 27; v. 290; p. 776.

Airplanes, Stream-line wiring for. G. H. Curtiss. No. 1,392,271; Sept. 27; v. 290; p. 774.

Alarm apparatus. A. H. Jörgensen. No. 1,391,684; Sept. 27; v. 290; p. 656.

Angle-joint. J. Maiers. No. 1,392,070; Sept. 27; v. 290; p. 734.

Angular elevation or depression of distant objects, Apparatus for determining. L. J. Booth. No. 1,392,263; Sept. 27; v. 290; p. 773.

Antenna-shortening device. W. Dubilier. No. 1,391,673; Sept. 27; v. 290; p. 653.

Antiskidding device for vehicle-wheels. E. N. Breitung. No. 1,391,667; Sept. 27; v. 290; p. 652.

Area wing, Variable. H. D. Fowler. No. 1,392,005; Sept. 27; v. 290; p. 722.

Asphalt-package and making the same. F. C. Overbury and C. E. Rahr. No. 1,391,969; Sept. 27; v. 290; p. 714.

Automatically-controlled self-lowering jack. J. C. Kopf. No. 1,392,066; Sept. 27; v. 290; p. 733.

Automobile-actuated pump. W. G. Nymon. No. 1,391,968; Sept. 27; v. 290; p. 713.

Automobile box or body, Extensible. P. L. Hedberg. No. 1,392,011; Sept. 27; v. 290; p. 723.

Automobile direction-indicator and wheel-angle gage. J. Stano. No. 1,391,701; Sept. 27; v. 290; p. 659.

Automobile direction-indicators, Lamp-bracket for. J. I. Stanfa. No. 1,391,862; Sept. 27; v. 290; p. 679.

Automobile direction-signal. W. S. Harris, W. Cronau, and F. I. Jackson. No. 1,391,954; Sept. 27; v. 290; p. 710.

Automobile direction-signal. C. F. Lynn. No. 1,391,686; Sept. 27; v. 290; p. 656.

Automobile-lock. E. W. Hessel. No. 1,392,158; Sept. 27; v. 290; p. 752.

Automobile-lock. J. F. Mills. No. 1,392,194; Sept. 27; v. 290; p. 759.

Automobile-motors and other oil-engines, Air and fuel heater for. J. N. Wood and F. Roewekamp. No. 1,391,709; Sept. 27; v. 290; p. 661.

Automobile-water-bag holder. L. E. Thompson. No. 1,392,092; Sept. 27; v. 290; p. 739.

Automobiles, Ash-pit for gas-producers mounted on. V. L. Cazes. No. 1,391,877; Sept. 27; v. 290; p. 695.

Automobiles, Signaling device for. W. L. Hewes. No. 1,391,830; Sept. 27; v. 290; p. 685.

Auxiliary protector. F. W. Billings. No. 1,391,665; Sept. 27; v. 290; p. 652.

Axle boxes, Dust-guard for car-. A. Currie. No. 1,391,998; Sept. 27; v. 290; p. 721.

Bait manufacture, Fish-. H. S. Dills. No. 1,391,670; Sept. 27; v. 290; p. 653.

Balls, Racking-frame for pool-. J. H. McCool. No. 1,391,901; Sept. 27; v. 290; p. 699.

Bands or belts, Machine for the continuous vulcanization of. L. A. Subers. No. 1,391,805; Sept. 27; v. 290; p. 679.

Barium chlorate, Producing. E. P. Schoch. No. 1,391,858; Sept. 27; v. 290; p. 691.

Barrel, Collapsible. W. H. McCrery. No. 1,391,900; Sept. 27; v. 290; p. 699.

Bath-spray. J. J. Donovan. No. 1,391,766; Sept. 27; v. 290; p. 672.

Bearing-dressing device. C. S. Overman. No. 1,392,208; Sept. 27; v. 290; p. 762.

Bearing, Roller-. G. L. Miller. No. 1,392,019; Sept. 27; v. 290; p. 725.

Bed, Folding. J. Johnsyn. No. 1,392,169; Sept. 27; v. 290; p. 754.

Bell, End. E. Mattman. No. 1,392,073; Sept. 27; v. 290; p. 735.

Belt, Abdominal. F. G. Baugatz. No. 1,392,101; Sept. 27; v. 290; p. 740.

Belt-lacing tool. I. M. Jacobs and W. Cramer. No. 1,391,736; Sept. 27; v. 290; p. 667.

Belt or strap. D. A. MacArthur. No. 1,392,256; Sept. 27; v. 290; p. 772.

Beveling and sealing clamp. C. E. Maynard. No. 1,391,784; Sept. 27; v. 290; p. 675.

Binder and economizer, Carbon. J. A. White. No. 1,391,872; Sept. 27; v. 290; p. 694.

Binder, Loose-leaf. E. L. Krag. No. 1,391,780; Sept. 27; v. 290; p. 674.

Blade-holder. R. L. Lightfoot. No. 1,391,842; Sept. 27; v. 290; p. 688.

Blowtorch. F. E. Gerstenberger. No. 1,391,774; Sept. 27; v. 290; p. 673.

Boat hull, Flying-. H. Kleckler. No. 1,392,279; Sept. 27; v. 290; p. 776.

Boat, Unsinkable. S. Ponzio. No. 1,392,217; Sept. 27; v. 290; p. 763.

Boiler-feeding injector. B. T. Williston. No. 1,392,098; Sept. 27; v. 290; p. 740.

Bomb, Water-. F. Smith. No. 1,391,800; Sept. 27; v. 290; p. 678.

Book-holder. J. A. Nakoney. No. 1,392,200; Sept. 27; v. 290; p. 760.

Boot and shoe sole, Composite. A. D. Nearon. No. 1,392,201; Sept. 27; v. 290; p. 761.

Boring-tool, Adjustable. O. Nelson. No. 1,392,203; Sept. 27; v. 290; p. 761.

Boring tool, Electrician's joist-. J. C. Moore. No. 1,391,844; Sept. 27; v. 290; p. 688.

Bowl, Nut-. L. and H. Farber. No. 1,392,134; Sept. 27; v. 290; p. 747.

Box: *See*—
Outlet-box.

Box-finishing machine. A. Bell. No. 1,392,102; Sept. 27; v. 290; p. 741.

Box-making machine. H. A. Denmire. No. 1,391,669; Sept. 27; v. 290; p. 653.

Bracket: *See*—
Scaffold-bracket.

Braiding-machine carrier. J. B. Hale. No. 1,391,682; Sept. 27; v. 290; p. 655.

Brake: *See*—
Sleigh-brake.

Brake-bands, Device for lining and relining. M. B. Harrison. No. 1,391,894; Sept. 27; v. 290; p. 698.

Brake-rod jaw. S. H. Campbell. No. 1,391,716; Sept. 27; v. 290; p. 663.

Braking device, Electromagnetic. C. A. M. Weber. No. 1,392,032; Sept. 27; v. 290; p. 727.

Brassière. S. Bosky. No. 1,391,936; Sept. 27; v. 290; p. 707.

Brush. J. Dworniczak. No. 1,391,882; Sept. 27; v. 290; p. 696.

Brush, Boiler-tube. J. Bergesen, Sr. No. 1,392,105; Sept. 27; v. 290; p. 741.

Brush, Folding. W. R. McDermott and C. E. Showalter. No. 1,391,783; Sept. 27; v. 290; p. 675.

Buckle. J. H. and F. P. Kintzele. No. 1,392,064; Sept. 27; v. 290; p. 733.

Buffing-machine. J. Keller. No. 1,392,172; Sept. 27; v. 290; p. 754.

Building construction. J. Hundley. No. 1,391,897; Sept. 27; v. 290; p. 699.

Buildings, System of integrally-cast reinforced-concrete pitched-roof construction for. E. D. Martin. No. 1,392,280; Sept. 27; v. 290; p. 776.

Bulk-cargo carrier. H. P. Frear. No. 1,391,946; Sept. 27; v. 290; p. 709.

Bull-hook. R. M. Stevenson. No. 1,392,026; Sept. 27; v. 290; p. 726.

Bumper, Vertical collision-. P. V. Elliott. No. 1,392,001; Sept. 27; v. 290; p. 721.

Bumpers, Automatic fuel-supply-regulating means for hydrocarbon-. J. H. Holland. No. 1,391,956; Sept. 27; v. 290; p. 711.

Burner: *See*—
Liquid-fuel burner. Oil-burner.

Burners, Valve-operating mechanism for vapor-. O. E. Quinton. No. 1,391,976; Sept. 27; v. 290; p. 715.

Bushing-remover. H. Konopaska. No. 1,391,837; Sept. 27; v. 290; p. 687.

Cabinet, Filing-. J. Herzog. No. 1,392,055; Sept. 27; v. 290; p. 731.

Calendar, Permanent. C. Teichtner. No. 1,391,917; Sept. 27; v. 290; p. 703.

Camera-support, Portable. S. R. Gray. No. 1,392,144; Sept. 27; v. 290; p. 749.

Candles, night-lights, and such like articles, Apparatus for manufacturing and packing. E. Walls. No. 1,392,286; Sept. 27; v. 290; p. 778.

Candy and producing. L. A. Thompson. No. 1,391,918; Sept. 27; v. 290; p. 703.

Canned foods, Treating. O. H. Hansen. No. 1,391,953; Sept. 27; v. 290; p. 710.
Cantaliver-springs, Attachment for. P. Pirwitz. No. 1,391,851; Sept. 27; v. 290; p. 690.
Carburcter. F. H. Ball. No. 1,391,930; Sept. 27; v. 290; p. 706.
Carbureter. J. V. Giesler. No. 1,392,141; Sept. 27; v. 290; p. 748.
Carbureter, Auxiliary. P. J. Lynch. No. 1,391,890; Sept. 27; v. 290; p. 699.
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Carbureters, Vacuum feeding device for. F. V. Risinger. No. 1,391,793; Sept. 27; v. 290; p. 677.
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Sweatband-protector. J. Martin. No. 1,391,902; Sept. 27; v. 290; p. 700.
Swing. N. A. Archibald. No. 1,391,874; Sept. 27; v. 290; p. 694.
Switch: *See*—
Electric switch.
Switch. O. A. Ware. No. 1,391,924; Sept. 27; v. 290; p. 704.
Switch and distributing-panel, Combination. O. T. Sweet. No. 1,391,916; Sept. 27; v. 290; p. 703.
Switch-mounting. H. L. Van Valkenburg. No. 1,391,809; Sept. 27; v. 290; p. 680.
Switch-operator. O. Maki and K. Arlin. No. 1,392,188; Sept. 27; v. 290; p. 758.
Switches, &c., Lock for. O. F. Conklin. No. 1,391,940; Sept. 27; v. 290; p. 708.
Synchronous booster rotary converters, Excitation for. F. D. Newbury and H. D. James. No. 1,392,076; Sept. 27; v. 290; p. 735.
Synchronous booster rotary converters, Field-control system for. M. W. Smith. No. 1,392,084; Sept. 27; v. 290; p. 737.
Syringe. F. W. Stanton. No. 1,392,085; Sept. 27; v. 290; p. 737.
Table: *See*—
Pool-table.
Serving-table.
Table and bench, Combination foldable. R. L. Kaiser. No. 1,391,833; Sept. 27; v. 290; p. 686.
Tail-holder. E. D. King. No. 1,391,739; Sept. 27; v. 290; p. 667.
Talking-machines, Automatic stop for. W. G. Shelton. No. 1,392,081; Sept. 27; v. 290; p. 736.
Talking-machine horn. J. Wolff. No. 1,392,037; Sept. 27; v. 290; p. 728.
Tank: *See*—
Man-catching tank.
Teeter and roundabout, Combined. E. D. Grove. No. 1,392,147; Sept. 27; v. 290; p. 749.
Temperature, Device for regulating. A. Blossom. No. 1,391,935; Sept. 27; v. 290; p. 737.
Telegraph device, Submarine wireless. G. Klem. No. 1,391,836; Sept. 27; v. 290; p. 686.
Test-indicator. G. J. Genung. No. 1,391,731; Sept. 27; v. 290; p. 666.
Therapeutic appliance, Thermomagnetic. J. H. Dequer. No. 1,391,762; Sept. 27; v. 290; p. 671.
Thermometer, Clinical. M. D. Dreyfus. No. 1,391,881; Sept. 27; v. 290; p. 696.
Thermostatic device. H. J. C. Wells. No. 1,392,031; Sept. 27; v. 290; p. 727.
Thread cutting and tapping machine. E. Jones. No. 1,392,170; Sept. 27; v. 290; p. 754.
Tie. R. M. Grizzle and A. H. Thacker. No. 1,392,146; Sept. 27; v. 290; p. 749.
Tie lifter and holder. R. Evans. No. 1,391,822; Sept. 27; v. 290; p. 683.
Tile, Roofing-. I. Greenberg. No. 1,391,891; Sept. 27; v. 290; p. 697.
Timing apparatus, Electrically-operated. E. W. Gent. No. 1,391,947; Sept. 27; v. 290; p. 709.
Tire-casings, &c., Support for. A. P. Schmitt. No. 1,391,857; Sept. 27; v. 290; p. 691.
Tire-deflector. M. Shimada. No. 1,392,231; Sept. 27; v. 290; p. 767.
Tire, Spring-. G. E. Stino. No. 1,391,985; Sept. 27; v. 290; p. 718.
Tires, Antislipping attachment for wheel-. B. B. Gunnoe. No. 1,392,148; Sept. 27; v. 290; p. 750.
Tire of road and like vehicles. A. Orr. No. 1,391,905; Sept. 27; v. 290; p. 700.
Tires to rims, Fastening cushion-. L. F. Nienaber. No. 1,391,846; Sept. 27; v. 290; p. 689.
Tool, Combination foundry-. H. E. Wolfe. No. 1,391,814; Sept. 27; v. 290; p. 681.
Tool, Boiler-flue. C. M. Spangler. No. 1,391,862; Sept. 27; v. 290; p. 692.
Tool-handle. M. Falos. No. 1,391,726; Sept. 27; v. 290; p. 665.
Tool-holder. B. T. Carson. No. 1,392,269; Sept. 27; v. 290; p. 774.
Tool holder, Turret-. F. Ekman. No. 1,392,128; Sept. 27; v. 290; p. 746.
Tool-holding device. G. H. Du Sell. No. 1,391,723; Sept. 27; v. 290; p. 664.
Toothbrush. S. Sprague. No. 1,392,285; Sept. 27; v. 290; p. 778.
Toy, Dancing. R. F. Calhoon. No. 1,391,994; Sept. 17; v. 290; p. 720.
Toy, Figure wheeled. R. C. Hartleb and T. J. Levey. No. 1,391,829; Sept. 27; v. 290; p. 685.
Toy, Figure wheeled. A. Markiewicz. No. 1,391,843; Sept. 27; v. 290; p. 688.
Toy, Moving and sounding. G. Pitoni. No. 1,392,216; Sept. 27; v. 290; p. 763.
Track-drilling machine. E. A. Everett. No. 1,391,723; Sept. 27; v. 290; p. 664.
Track-sander. H. M. Shade. No. 1,392,230; Sept. 27; v. 290; p. 766.
Track suspension means and load-carriage, Overhead-. W. A. Brownlee. No. 1,391,993; Sept. 27; v. 290; p. 719.
Traction device. P. W. Deuel. No. 1,391,721; Sept. 27; v. 290; p. 664.
Tractor. C. J. Allen. No. 1,391,020; Sept. 27; v. 290; p. 705.
Tractor. A. G. Cribari. No. 1,391,761; Sept. 27; v. 290; p. 671.
Tractor. L. J. Kline. No. 1,391,770; Sept. 27; v. 290; p. 674.

Tractor. W. Nash. No. 1,391,689; Sept. 27; v. 290; p. 657.
Tractor for agricultural work, Motor-. W. Guthrie. No. 1,392,149; Sept. 27; v. 290; p. 750.
Tractor-lug. D. S. Wolverton. No. 1,392,109; Sept. 27; v. 290; p. 740.
Trailer connection. W. C. Mangel. No. 1,391,962; Sept. 27; v. 290; p. 712.
Train-control apparatus. J. S. Crawford. No. 1,391,941; Sept. 27; v. 290; p. 708.
Train-pipe connector, Automatic. T. Cravelone and C. Martello. No. 1,392,121; Sept. 27; v. 290; p. 745.
Transfer or carry-over mechanism. W. W. Lasker. No. 1,391,959; Sept. 27; v. 290; p. 712.
Transmission, Automatic change-speed. P. Viviano. No. 1,391,707; Sept. 27; v. 290; p. 661.
Trap: *See*—
Rat or animal trap.
Trolley-wheel. C. E. Liebenberg. No. 1,391,741; Sept. 27; v. 290; p. 667.
Trousers-supporter. L. Woods. No. 1,392,241; Sept. 27; v. 290; p. 768.
Truck. A. M. Bellony. No. 1,392,103; Sept. 27; v. 290; p. 741.
Truck and jack, Combined. M. W. Forbes. No. 1,391,773; Sept. 27; v. 290; p. 673.
Truck, Industrial. W. Schroeder. No. 1,391,699; Sept. 27; v. 290; p. 659.
Tubes and the like, Scaling thermometer-. L. F. Chaney. No. 1,391,878; Sept. 27; v. 290; p. 695.
Turbine, Steam. E. Schneider. No. 1,391,698; Sept. 27; v. 290; p. 659.
Typewriting-machine. O. Fischer. No. 1,392,135; Sept. 27; v. 290; p. 747.
Typewriting-machine. R. F. Gordon. No. 1,391,680; Sept. 27; v. 290; p. 655.
Typewriting-machine. G. A. Seib. No. 1,391,798; Sept. 27; v. 290; p. 678.
Typographic machine. F. W. Letsch. No. 1,392,017; Sept. 27; v. 290; p. 724.
Typographic machine. F. W. Letsch and J. N. McFarland. No. 1,392,018; Sept. 27; v. 290; p. 725.
Umbrella-holder. C. A. Cooper. No. 1,392,120; Sept. 27; v. 290; p. 744.
Umbrellas, Removable cover for. W. Bergfield. No. 1,392,106; Sept. 27; v. 290; p. 741.
Universal joint. A. P. Brush. No. 1,391,756; Sept. 27; v. 290; p. 670.
Universal reproducer. W. G. Shelton. No. 1,392,082; Sept. 27; v. 290; p. 737.
Valve and grinding mechanism therefor. H. C. Brown. No. 1,392,112; Sept. 27; v. 290; p. 743.
Valve-closer, Automatic. A. Barchiesi. No. 1,391,818; Sept. 27; v. 290; p. 682.
Valve for flushing-tanks, Water-inlet. W. Sherwood. No. 1,391,860; Sept. 27; v. 290; p. 692.
Valve for use in wireless telegraphy and telephony, Thermionic. H. S. de A. Donisthorpe. No. 1,391,671; Sept. 27; v. 290; p. 654.
Valve, Gate-. W. B. S. Whaley. No. 1,391,987; Sept. 27; v. 290; p. 718.
Valve-grinding tool. O. T. Haig. No. 1,391,892; Sept. 27; v. 290; p. 698.
Valves while being ground, Holder for. F. W. Heckler. No. 1,391,733; Sept. 27; v. 290; p. 666.
Vehicle direction-indicator. W. E. Jury. No. 1,392,171; Sept. 27; v. 290; p. 754.
Vehicle, Motor-. D. G. Stanbrough. No. 1,391,864; Sept. 27; v. 290; p. 692.
Vehicle, Motor-driven. R. E. Kerlin. No. 1,391,834; Sept. 27; v. 290; p. 686.
Vehicle-top. F. H. Hall. No. 1,392,274; Sept. 27; v. 290; p. 775.
Vehicle-top. F. H. Hall. No. 1,392,275; Sept. 27; v. 290; p. 775.
Vehicle-train and vehicle. J. W. Collier. No. 1,391,760; Sept. 27; v. 290; p. 671.
Vehicle-wheel. O. E. Hunt. No. 1,392,164; Sept. 27; v. 290; p. 753.
Vehicles, Automatic safety appliance for motor-. M. J. Hagerty. No. 1,391,952; Sept. 27; v. 290; p. 710.
Vehicles, Direction-indicator for motor-. C. L. Bossolt. No. 1,391,937; Sept. 27; v. 290; p. 707.
Vehicles, Electrical system for motor-. J. K. Delano. No. 1,391,880; Sept. 27; v. 290; p. 695.
Vehicles, Electric generator for motor-. J. Gambs. No. 1,391,679; Sept. 27; v. 290; p. 655.
Vehicles, Locking device for use with road-. W. F. N. Mann. No. 1,391,687; Sept. 27; v. 290; p. 656.
Vehicles, Signal device for motor-. B. Stanley. No. 1,391,803; Sept. 27; v. 290; p. 679.
Vending machine, Stamp-. J. C. Hawkins. No. 1,391,775; Sept. 27; v. 290; p. 673.
Vending-machines, Slot-closing device for coin-controlled. A. D. Grover. No. 1,391,732; Sept. 27; v. 290; p. 666.
Ventilating bell or forcing-glass, Collapsible and. O. C. Knebler. No. 1,392,178; Sept. 27; v. 290; p. 755.
Ventilator. J. W. Lippincott. No. 1,391,781; Sept. 27; v. 290; p. 675.
Vessels, Head for dispensing. W. G. Dunham. No. 1,391,771; Sept. 27; v. 290; p. 673.
Vessels, Head for dispensing. W. G. Dunham. No. 1,391,772; Sept. 27; v. 290; p. 673.
Vessels, Outlet for jacketed. E. B. Nichols. No. 1,392,204; Sept. 27; v. 290; p. 761.
Violins, Tone-indicating device for. W. F. Hames. No. 1,392,151; Sept. 27; v. 290; p. 750.
Vise. O. L. Engstrom and H. C. Nelson. No. 1,392,130; Sept. 27; v. 290; p. 746.
Vise, Quick-release bench-. M. W. Smith. No. 1,391,913; Sept. 27; v. 290; p. 702.
Washing-machine. D. L. Bair. No. 1,391,754; Sept. 27; v. 290; p. 670.
Washing-machine. E. B. Digby. No. 1,392,273; Sept. 27; v. 290; p. 775.
Washing-machine. F. Owen. No. 1,391,848; Sept. 27; v. 290; p. 689.
Watch. J. A. Freund. No. 1,392,005; Sept. 27; v. 290; p. 722.
Watch-plates, Making. J. A. Freund. No. 1,392,007; Sept. 27; v. 290; p. 723.
Water-heater. P. C. Sachse. No. 1,391,695; Sept. 27; v. 290; p. 658.
Water-wheel. L. E. Franke. No. 1,391,730; Sept. 27; v. 290; p. 665.
Waterer and feeder. H. A. Foster. No. 1,391,824; Sept. 27; v. 290; p. 684.
Waterproofing cloth, Composition for. N. C. Bissell. No. 1,391,934; Sept. 27; v. 290; p. 707.
Wave action, Protecting objects from. P. Brasher. No. 1,391,992; Sept. 27; v. 290; p. 719.
Weed-cutter. M. W. Fleet. No. 1,391,823; Sept. 27; v. 290; p. 683.
Wheel: *See*—
Resilient wheel.
Sectional gear-wheel.
Spring-wheel.
Trolley-wheel.
Vehicle-wheel.
Water-wheel.
Wheels, Making railway disk. F. Schaffer. No. 1,391,907; Sept. 27; v. 290; p. 700.
Wheelbarrow-handle. H. M. Caswell. No. 1,392,114; Sept. 27; v. 290; p. 743.
Window. L. Lane. No. 1,392,183; Sept. 27; v. 290; p. 757.
Window construction. D. Bourque. No. 1,392,243; Sept. 27; v. 290; p. 769.
Windshield-cleaner. B. I. Malouf. No. 1,392,190; Sept. 27; v. 290; p. 758.
Wire stretching and twisting machine, Automatic. V. J. Gerrard and P. Wright. No. 1,391,826; Sept. 27; v. 290; p. 684.
Wire stretching apparatus. L. A. and L. R. Riddle. No. 1,392,079; Sept. 27; v. 290; p. 736.
Wire-tying machine, Portable. W. M. Boenning. No. 1,391,820; Sept. 27; v. 290; p. 683.
Wireless transmitting system. H. K. Sandell. No. 1,391,855; Sept. 27; v. 290; p. 691.
Wrench: *See*—
Socket-wrench.
Wrench. C. W. Dixon. No. 1,391,764; Sept. 27; v. 290; p. 672.
Wrench. F. Kettler. No. 1,391,898; Sept. 20; v. 290; p. 699.
Wrench. A. W. Minney. No. 1,391,749; Sept. 27; v. 290; p. 669.
Wrench. C. C. Stewart. No. 1,392,238; Sept. 27; v. 290; p. 768.
Writing-machine. R. J. Orr. No. 1,391,788; Sept. 27; v. 290; p. 676.

ALPHABETICAL LIST OF TRADE-MARKS REGISTERED.

Antiseptic, tonic laxative, and nerve tonic. Alkaline Physician's Drug Manufacturing Association. No. 147,018; Sept. 27; v. 290; p. 805.

Antiseptics. M. J. Griffith. No. 146,990; Sept. 27; v. 290; p. 804.

Barley-malt extract. G. Loewus & Co. No. 147,008; Sept. 27; v. 290; p. 805.

Beverage, Non-alcoholic. Tisco Company. No. 147,065; Sept. 27; v. 290; p. 809.

Beverage, Non-alcoholic maltless. Coleman and Company, Limited. No. 146,970; Sept. 27; v. 290; p. 804.

Brilliantine, face-powder, toilet water, &c. Cheramy, Incorporated. No. 146,966; Sept. 27; v. 290; p. 803.

Cakes. Colonial Biscuit Company. No. 146,971; Sept. 27; v. 290; p. 804.

Candies. Walter T. Hall & Co. No. 146,994; Sept. 27; v. 290; p. 804.

Candies. Stephen F. Whitman & Son. No. 147,043; Sept. 27; v. 290; p. 806.

Candies, particularly chocolates and bonbons. C. A. Barrett. No. 146,949; Sept. 27; v. 290; p. 803.

Candy. D. Auerbach & Sons. No. 147,044; Sept. 27; v. 290; p. 807.

Candy. Baird Brothers Co. No. 146,946; Sept. 27; v. 290; p. 803.

Candy. E. J. Brach and Sons. No. 146,956; Sept. 27; v. 290; p. 803.

Candy. L. G. Burns. No. 146,960; Sept. 27; v. 290; p. 803.

Candy. W. C. Garwood. No. 147,054; Sept. 27; v. 290; p. 808.

Candy. Helm Candy Co. No. 146,996; Sept. 27; v. 290; p. 804.

Candy. Howard H. Hoyt Candy Co. No. 146,999; Sept. 27; v. 290; p. 804.

Candy containing yeast, Chocolate. Chocolate Yeast Co. No. 146,967; Sept. 27; v. 290; p. 803.

Candy kisses. Dilling & Company. No. 146,982; Sept. 27; v. 290; p. 804.

Canned fish and berries. Bryant & Company. No. 146,959; Sept. 20; v. 290; p. 803.

Canned fruits and fruit salad, &c. Smith-Frank Packing Co. No. 147,035; Sept. 27; v. 290; p. 806.

Canned fruits and vegetables. H. A. Baker, Inc. No. 146,947; Sept. 27; v. 290; p. 803.

Canned, pickled, or dried fish. Gowan-Lanning-Brown Co. No. 146,989; Sept. 27; v. 290; p. 804.

Chemical preparation. Thomas Bigg Limited. Nos. 146,951-2; Sept. 27; v. 290; p. 803.

Chemicals, medicines, and pharmaceutical preparations. Mayer Brothers Drug Company. No. 147,012; Sept. 27; v. 290; p. 805.

Cider and carbonated beverage. Hood River Apple Vinegar Co. No. 147,055; Sept. 27; v. 290; p. 808.

Cleaning preparation for leather and fabric. U. S. Specialty Manufacturing Company. No. 147,061; Sept. 27; v. 290; p. 808.

Coffee essence, Concentrated. A. D. Brown. No. 146,957; Sept. 27; v. 290; p. 803.

Construction materials, Certain. Hydrex Corporation. No. 147,056; Sept. 27; v. 290; p. 808.

Cotton-batting. Stearns & Foster Company. Nos. 147,062-4; Sept. 27; v. 290; p. 809.

Cotton piece goods. Amoskeag Manufacturing Company. No. 146,944; Sept. 27; v. 290; p. 803.

Cough-syrup. Smith and Harrison. No. 147,036; Sept. 27; v. 290; p. 806.

Cream-tartar, baking-soda, sulfur, Epsom salts. Twitchell-Champlin Company. No. 147,041; Sept. 27; v. 290; p. 806.

Creams, rouge, and foot-relief, Cold and vanishing. I. R. Cook. No. 146,972; Sept. 27; v. 290; p. 804.

Disinfectant and insecticide. San Antonio Drug Co. No. 147,027; Sept. 27; v. 290; p. 805.

Disinfectant, insecticide, and deodorizer. San Antonio Drug Co. No. 147,026; Sept. 27; v. 290; p. 805.

Dye from hair, Commodity for removing. Hyman & Oppenheim. No. 147,000; Sept. 27; v. 290; p. 805.

Feed, Poultry. Josey Miller Co. No. 147,002; Sept. 27; v. 290; p. 805.

Flavoring-matter. A. Finkenstein. No. 146,986; Sept. 27; v. 290; p. 804.

Flour, Wheat-. Sparks Milling Company. No. 147,037; Sept. 27; v. 290; p. 806.

Food ingredient to be mixed with flour. Campbell Baking Company. No. 146,962; Sept. 27; v. 290; p. 803.

Foods, Certain. Twitchell-Champlin Company. No. 147,040; Sept. 27; v. 290; p. 806.

Fruits, Fresh deciduous. Lloyd Garretson Co. No. 146,988; Sept. 27; v. 290; p. 804.

Gargle and nasal spray. San Antonio Drug Co. No. 147,028; Sept. 27; v. 290; p. 805.

Germicidal preparation, Certain. Scalp Germicide Company. No. 147,031; Sept. 27; v. 290; p. 805.

Glass. Corning Glass Works. No. 147,052; Sept. 27; v. 290; p. 808.

Grapefruit paste. J. Haritopol. No. 146,995; Sept. 27; v. 290; p. 804.

Gum, Chewing-. India Company. No. 147,001; Sept. 27; v. 290; p. 805.

Hair-receivers, bottle-holders, salve-jars, &c. Newark Tortoise Shell Novelty Co. No. 147,059; Sept. 27; v. 290; p. 808.

Hair-tonic. C. L. Riley. No. 147,020; Sept. 27; v. 290; p. 805.

Hair-tonic and a preparation to straighten obstinate hair. Mrs. A. Batts. No. 146,950; Sept. 27; v. 290; p. 803.

Ice-cream, ices, and frozen custard, Shipping-containers for. W. F. Luick. No. 147,058; Sept. 27; v. 290; p. 808.

Insecticide. N. H. Brown. No. 146,958; Sept. 27; v. 290; p. 803.

Insecticide. Heyers & Vanriper. No. 146,997; Sept. 27; v. 290; p. 804.

Leather and fabric articles, Dressing and cleaners for. Whittemore Brothers. No. 147,067; Sept. 27; v. 290; p. 809.

Liniment, Certain. Weightman Chemical Company. No. 147,042; Sept. 27; v. 290; p. 806.

Medicinal and toilet preparations. J. J. Moore. No. 147,014; Sept. 27; v. 290; p. 805.

Medicinal preparation. Calco Chemical Company. No. 146,961; Sept. 27; v. 290; p. 803.

Medicinal preparation. Hall & Ruckel. No. 146,992; Sept. 27; v. 290; p. 804.

Medicinal preparation, Certain. San Antonio Drug Co. No. 147,029; Sept. 27; v. 290; p. 805.

Medicinal preparation for treatment of infantile troubles. Dr. M. F. Groves Son & Co. No. 146,991; Sept. 27; v. 290; p. 804.

Medicinal preparations, Certain. A. A. Pearson. No. 147,017; Sept. 27; v. 290; p. 805.

Medicine for constipation, fever, &c. Dusco Co. No. 146,984; Sept. 27; v. 290; p. 804.

Medicine for the blood. W. F. Severa Co. No. 147,034; Sept. 27; v. 290; p. 806.

Medicine for the kidneys and bladder. Mrs. K. G. Ellis. No. 146,985; Sept. 27; v. 290; p. 804.

Oil, Castor-. Spencer Kellogg & Sons. No. 147,004; Sept. 27; v. 290; p. 805.

Oil, Fulling and scouring. U. S. Oil & Supply Co. No. 147,016; Sept. 27; v. 290; p. 805.

Oils, Cooking-. Capitol Refining Co. No. 146,963; Sept. 27; v. 290; p. 803.

Oils, Salad-. Capitol Refining Co. No. 146,964; Sept. 27; v. 290; p. 803.

Oils with or without resin, Dechlorinated. H. A. Gardner. No. 146,987; Sept. 27; v. 290; p. 804.

Ointment. Mother's Remedies Company. No. 147,015; Sept. 27; v. 290; p. 805.

Paints, Cold-water. Devoe & Raynolds Co. No. 147,053; Sept. 27; v. 290; p. 808.

Paprika, Spanish. V. Rodriguez. No. 147,023; Sept. 27; v. 290; p. 805.

Perfumes and face-powders. K. M. Boorman. No. 146,955; Sept. 27; v. 290; p. 803.

Perfumes, toilet waters, face-powders, &c. F. J. de S. Coty. No. 146,974; Sept. 27; v. 290; p. 804.

Perfumes, toilet waters, and brilliantine. F. J. de S. Coty. Nos. 146,975-9; Sept. 27; v. 290; p. 804.

Perfumes, toilet waters, &c. F. J. de S. Coty. Nos. 146,980-1; Sept. 27; v. 290; p. 804.

Petroleum fuels, Liquid for intensifying, &c. A. W. Almquist. No. 146,940; Sept. 27; v. 290; p. 803.

Pharmaceutical and toilet preparations. H. G. Bitter. No. 146,953; Sept. 27; v. 290; p. 803.

Photographs. Vanity Fair Studios Inc. No. 147,066; Sept. 27; v. 290; p. 809.

Pills, Laxative. C. E. Cessna. No. 146,965; Sept. 27; v. 290; p. 803.

Poultry, Live. M. C. Peters Mill Co. No. 147,013; Sept. 27; v. 290; p. 805.

Popcorn and nut confectionery. S. R. Mercer. No. 147,011; Sept. 27; v. 290; p. 805.

Powders and creams, face-powder compacts, and perfumes, Face. J. J. Rodriguez. No. 147,022; Sept. 27; v. 290; p. 805.

Powders, facial cream, &c., Talcum and face. Lady Christabel Company. No. 147,007; Sept. 27; v. 290; p. 805.

Preparation for removing rust. Rusticide Company. No. 147,024; Sept. 27; v. 290; p. 805.

Preparation for treatment of tired feet, rheumatism, and nervous pains. Riveroll & Guzman Company. No. 147,021; Sept. 27; v. 290; p. 805.

Preparation for use in treatment of stomach troubles. Hall & Ruckel. No. 146,993; Sept. 27; v. 290; p. 804.

Preparation of an oily nature for treating textile fabrics. E. F. Houghton & Co. No. 146,998; Sept. 27; v. 290; p. 804.

Remedy for constipation. S. Drain, M. D. No. 146,983; Sept. 27; v. 290; p. 804.

Rope, cord, and twine. American Manufacturing Company. Nos. 146,941-3; Sept. 27; v. 290; p. 803.

Rouge. F. R. Arnold & Co. No. 146,945; Sept. 27; v. 290; p. 803.

Saddles, collars, and harness parts. Perkins-Campbell Company. No. 147,060; Sept. 27; v. 290; p. 808.

Salve, Corn-. D. Thall. No. 147,039; Sept. 27; v. 290; p. 806.

Sears, Roebuck and Company, Chicago, Ill. Candles. No. 147,031; Sept. 27; v. 290; p. 806.
Spurs and bits. P. M. Kelly. No. 147,057; Sept. 27; v. 290; p. 808.
Sugar, Corn-. Corn Products Refining Co. No. 146,973; Sept. 27; v. 290; p. 804.
Tents, awnings, paulins, &c. Clifton Mfg. Company. Nos. 147,045–51; Sept. 27; v. 290; p. 807.
Toilet and pharmaceutical preparations, Certain. Sanitol Chemical Laboratory Co. No. 147,030; Sept. 27; v. 290; p. 805.
Toilet preparations, Certain. L. B. Kerlin. No. 147,005; Sept. 27; v. 290; p. 805.
Toilet waters, perfumes, &c. A. Salikof. No. 147,025; Sept. 27; v. 290; p. 805.
Tonic, Certain. Clyde Collins Company. No. 146,968; Sept. 27; v. 290; p. 803.
Tonic, General. W. B. Bond & Co. No. 146,954; Sept. 27; v. 290; p. 803.
Tonic, General. W. F. Kuhlbach. No. 147,006; Sept. 27; v. 290; p. 805.
Tonic, General. D. Maddaloni. No. 147,009; Sept. 27; v. 290; p. 805.
Tonic, General. W. S. Pickering. No. 147,010; Sept. 27; v. 290; p. 805.
Tonic, General. Scranton Distributing and Manufacturing Company. No. 147,032; Sept. 27; v. 290; p. 806.
Tonic, General. Strantza Company. No. 147,038; Sept. 27; v. 290; p. 806.
Tonic, Medicinal food. Mazomul Company. No. 147,010; Sept. 27; v. 290; p. 805.
Tooth-paste. Kaffir Chemical Laboratories. No. 147,003; Sept. 27; v. 290; p. 805.
Twines. J. E. Barbour Company. No. 146,948; Sept. 27; v. 290; p. 803.
Water. Coe & Hill. No. 140,969; Sept. 27; v. 290; p. 804.

ALPHABETICAL LIST OF TRADE-MARK TITLES.

PUBLISHED FOR OPPOSITION.

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

Acid concentrators. Chemical Construction Company. No. 111,376; Sept. 27; v. 290; p. 779.
Beverage, Non alcoholic malt-. O. E. Maurer. No. 145,470; Sept. 27; v. 290; p. 787.
Boots and shoes. Converse Rubber Shoe Company. No. 143,807; Sept. 27; v. 290; p. 785.
Boots and shoes, Infants' and children's. M. C. Hyman. No. 133,968; Sept. 27; v. 290; p. 781.
Boots and shoes, Leather. Hamilton Brown Shoe Co. No. 140,332; Sept. 27; v. 290; p. 783.
Boots and shoes, Leather. Somervell Brothers Limited. No. 142,035; Sept. 27; v. 290; p. 784.
Boots, shoes, and slippers. United States Rubber Company. No. 144,651; Sept. 27; v. 290; p. 786.
Bottle, can, biscuit-tin, &c., washers, dish-washers, milk-bottle fillers, &c. Rice & Adams Corporation. No. 149,148; Sept. 27; v. 290; p. 797.
Boxes, Collapsible cardboard hat-. Hoague-Sprague Corp. No. 150,448; Sept. 27; v. 290; p. 800.
Braces, breast-drills, hammers, hatchets, &c., Ratchet and non-ratchet. Vaughan & Bushnell Manufacturing Company. No. 148,099; Sept. 27; v. 290; p. 794.
Brassières. G. M. Polx, Inc. No. 147,045; Sept. 27; v. 290; p. 791.
Brassières and corsets. A. Zwiebelson. No. 143,228; Sept. 27; v. 290; p. 785.
Butter, eggs, ice-cream, &c. Henningsen Produce Co. No. 145,400; Sept. 27; v. 290; p. 787.
Cake. Ward Baking Company. No. 145,663; Sept. 27; v. 290; p. 788.
Calendars. T. P. Dolan. No. 150,803; Sept. 27; v. 290; p. 801.
Candy. Heit Miller Lau Co. No. 145,018; Sept. 27; v. 290; p. 787.
Cans, Metal. Sheet Metal Specialty Company. No. 151,065; Sept. 27; v. 290; p. 801.
Cartoons, Series of. Fontaine Fox. Nos. 150,605–9; Sept. 27; v. 290; p. 800.
Casserole-holders. Josephine M. Dillmeier Company. No. 146,254; Sept. 27; v. 290; p. 789.
Casters. Bassick Company. No. 150,001; Sept. 27; v. 290; p. 799.
Castings and forgings, Iron and steel. Rockford Malleable Iron Works. No. 148,761; Sept. 27; v. 290; p. 796.
Chocolates and candies. Novin Candy Co. No. 147,253; Sept. 27; v. 290; p. 791.
Cigarettes. Axton-Fisher Tobacco Company. No. 141,344; Sept. 27; v. 290; p. 784.
Cleaning compound for wood, metal, &c., Liquid-. Sanitation and Supply Company. No. 149,872; Sept. 27; v. 290; p. 799.
Cleaning fluid and dry cleaner for cloth and leather. N. Nrofitos. No. 134,262; Sept. 27; v. 290; p. 781.
Coats and bathrobes, Hooded. A. Fisch. No. 133,774; Sept. 27; v. 290; p. 780.
Coffee. Direct Coffee Mills. No. 147,417; Sept. 27; v. 290; p. 792.
Complexion-meal, nail-polish, antiseptic oil, brilliantine, &c. G. S. Kolar Laboratories. No. 146,565; Sept. 27; v. 290; p. 790.
Cotton, Mercerized mending-. Dexter Yarn Company. No. 145,674; Sept. 27; v. 290; p. 788.
Cotton piece goods. Burton Bros. & Co. No. 151,607; Sept. 27; v. 290; p. 802.
Cotton piece goods. Claflins Incorporated. No. 151,710; Sept. 27; v. 290; p. 802.
Cotton piece goods. Lang Bros. No. 146,833; Sept. 27; v. 290; p. 790.
Cotton piece goods, White. California Cotton Mills Company. No. 150,513; Sept. 27; v. 290; p. 800.
Crates, Bottle-. York Milk Machinery Company. No. 149,667; Sept. 27; v. 290; p. 798.
Crates for fruits and vegetables. A. Bennett & Co. No. 151,255; Sept. 27; v. 290; p. 801.
Cream, Face-. G. S. Johnson. No. 140,040; Sept. 27; v. 290; p. 783.
Dress-shields. S. Bakal & Son. No. 140,773; Sept. 27; v. 290; p. 784.
Dish-scraper. J. S. Lewis. No. 144,467; Sept. 27; v. 290; p. 785.
Dresses and rompers, Children's. Simple Simon Manufacturing Company. No. 145,654; Sept. 27; v. 290; p. 788.
Dresses and skirts. Domestic Products Co. No. 146,699; Sept. 27; v. 290; p. 790.
Drills, planers, grinders, &c., Pneumatic. Turbine Air Tool Company. No. 132,897; Sept. 27; v. 290; p. 780.
Dyes. White Tar Company. No. 149,159; Sept. 27; v. 290; p. 798.
Engines, Internal-combustion. San Antonio Machine & Supply Company. No. 148,243; Sept. 27; v. 290; p. 795.
Engines, Piston pins and valves of internal-combustion. G. Harris. No. 147,546; Sept. 27; v. 290; p. 793.
Envelopes, file-folders, and file-pockets, Both filing and mailing. J. W. Fitzgerald. No. 142,363; Sept. 27; v. 290; p. 784.
Extract of malt sugar used for food purposes, Concentrated. H. B. Fagan. No. 145,015; Sept. 27; v. 290; p. 786.
Extracts, essences, and prepared syrups used in drinks. A. Whittaker. No. 125,142; Sept. 27; v. 290; p. 779.
Fabric in the piece, Pile. Sidney Blumenthal & Co. No. 151,705; Sept. 27; v. 290; p. 802.
Fabrics in the piece, Pile. Sidney Blumenthal & Co. Nos. 151,702–3; Sept. 27; v. 290; p. 802.
Filing-cases, cabinets, &c. Fire-Proof Furniture and Construction Company. No. 93,492; Sept. 27; v. 290; p. 779.
Flat-ware, Table. Oneida Community. No. 147,637; Sept. 27; v. 290; p. 793.
Flour, Potato-. Falk American Potato Flour Corporation. No. 130,027; Sept. 27; v. 290; p. 782.
Food, animal-feeding stuffs, &c., Poultry. Globe Grain & Milling Company. No. 137,935; Sept. 27; v. 290; p. 782.
Food for infants, invalids, convalescents, Concentrated. G. Prunier & Cie. No. 147,984; Sept. 27; v. 290; p. 794.
Foot and heel rests, door and foot mats, Aluminum. Cincinnati Aluminum Casting Company. No. 147,818; Sept. 27; v. 290; p. 793.
Fruit jams, jellies, preserves, and marmalades. John Gray & Company. No. 141,167; Sept. 27; v. 290; p. 784.
Fur garments. Gottlieb Bros. No. 145,507; Sept. 27; v. 290; p. 787.
Game-sheet, Printed. J. P. Reinig. No. 148,763; Sept. 27; v. 290; p. 796.
Garments, rompers, dresses, Misses' and children's outer. M. E. Hewett. No. 131,989; Sept. 27; v. 290; p. 780.
Glassware, china, pottery, decorators' materials. L. Reusche & Co. No. 119,814; Sept. 27; v. 290; p. 779.
Gloves, Fabric. Fownes Brothers & Co. No. 133,304; Sept. 27; v. 290; p. 780.
Hair-grower. A Lavac. No. 146,919; Sept. 27; v. 290; p. 791.
Hair-nets. National Trading Company. No. 149,926; Sept. 27; v. 290; p. 799.
Hair-nets. National Trading Company. No. 151,919; Sept. 27; v. 290; p. 802.
Hair-nets. Pagoda Import Company. No. 151,559; Sept. 27; v. 290; p. 802.
Hair-nets. Rieser Company. No. 147,315; Sept. 27; v. 290; p. 792.
Hats, Boys' and men's. Cornelius Weiss, Inc. No. 145,290; Sept. 27; v. 290; p. 787.
Hats, Ladies'. Joseph Lazarus Company. No. 146,178; Sept. 27; v. 290; p. 789.
Hose-clamps. Universal Industrial Corporation. Nos. 149,830–1; Sept. 27; v. 290; p. 799.
Hosiery, underdrawers, undershirts, union-suits, sweaters. Kob & Kaplan. No. 143,988; Sept. 27; v. 290; p. 785.

PUBLISHED FOR OPPOSITION.

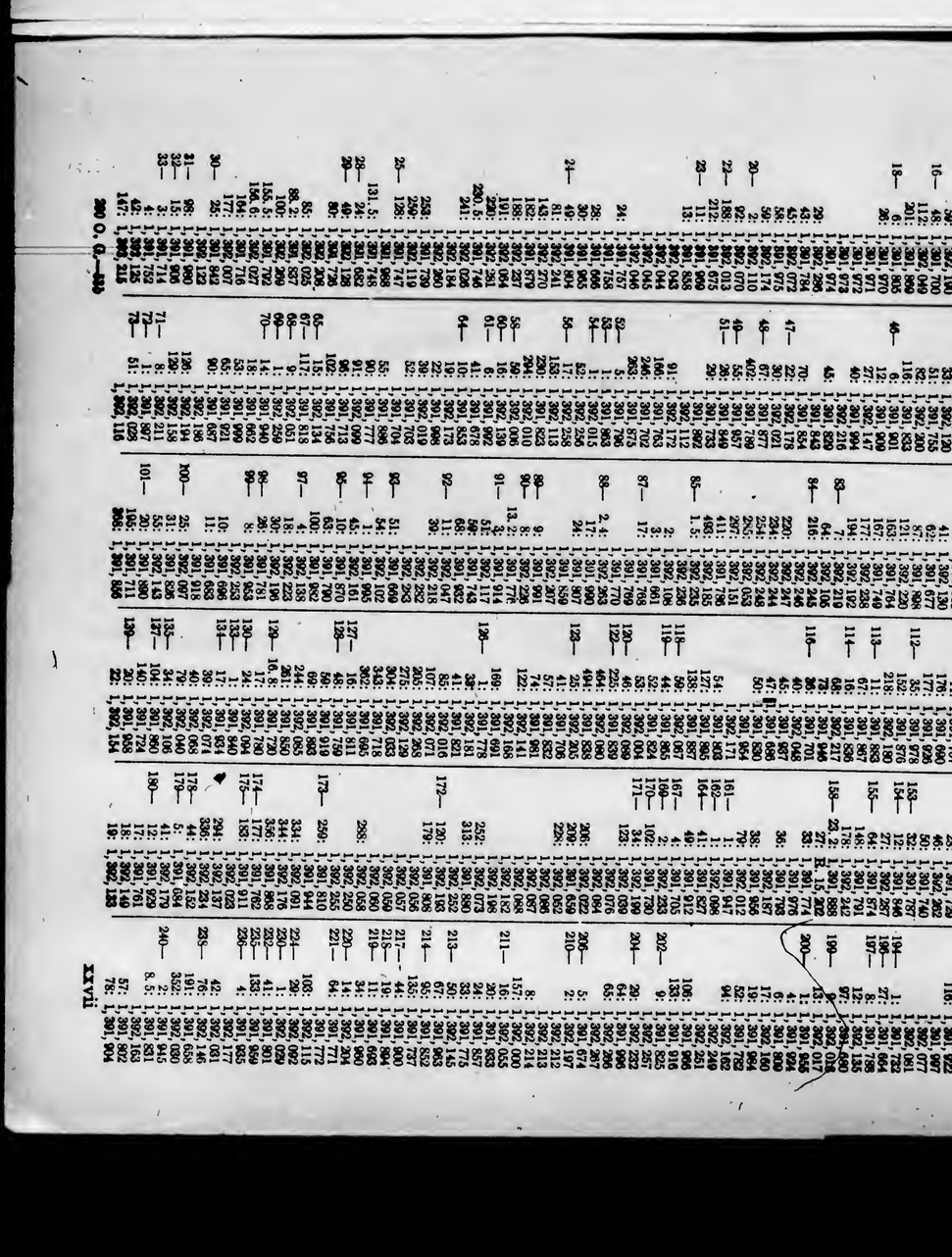
[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907.]

House organs, pamphlets, folders, and booklets. Hughes & Brettell. No. 150,860; Sept. 27; v. 290; p. 801.
Iron, steel, and alloy sheets, wire, tin-plate, &c. Brooklyn Galvanizing & Mfg. Co. No. 143,480; Sept. 27; v. 290; p. 785.
Iron welding sticks or rods, Cast-. Davis-Bournonville Company. No. 147,283; Sept. 27; v. 290; p. 791.
Joint fillers for street-pavements, alleys, &c., Expansion-. Standard Asphalt & Refining Co. No. 151,640; Sept. 27; v. 290; p. 802.
Journal-bearings for rotating machinery. Oliver-Sherwood Co. No. 143,290; Sept. 27; v. 290; p. 785.
Knit underwear and sweaters, union-suits, &c. Wyman, Partridge & Co. No. 144,700; Sept. 27; v. 290; p. 786.
Knitted fabrics and textile robes and blankets. Peters and Herron Co. No. 147,255; Sept. 27; v. 290; p. 791.
Lards. Wm. Schluderberg-T. J. Kurdle Co. No. 144,479; Sept. 27; v. 290; p. 786.
Linoleum. George W. Blabon Company. Nos. 151,350–51; Sept. 27; v. 290; p. 801.
Liquid preparation for the alleviation of diseases of horses. C. H. Mohr and Company. No. 149,141; Sept. 27; v. 290; p. 797.
Liquids or semisolids, Stirring-machines for. Air-O-Mix Corporation. Nos. 147,393-4; Sept. 27; v. 290; p. 792.
Machine-tools for working metals, wood, &c. Société Anonyme des Ateliers Borel-Profil. Nos. 139,338–9; Sept. 27; v. 290; p. 783.
Manifolds, fuel-economizers for hydrocarbon internal-combustion motors. A. L. Smith Motors, Inc. No. 147,896; Sept. 27; v. 290; p. 794.
Mattress-protectors, table-pads, paddings, and nursery-cloth, Quilted. Excelsior Quilting Company. No. 148,267; Sept. 27; v. 290; p. 795.
Medicated confection useful in stimulating digestion. D. C. Rose. No. 148,168; Sept. 27; v. 290; p. 795.
Medicinal preparation for stomach, liver, and kidney troubles. I. Randazzo. No. 147,467; Sept. 27; v. 290; p. 792.
Medicinal preparation for treatment of cholelithiasis, &c. A. Erlenger. No. 147,824; Sept. 27; v. 290; p. 793.
Metal-polish. American Metal Polish Co. No. 149,165; Sept. 27; v. 290; p. 798.
Mining machinery, rock and hammer drills, &c. Ingersoll-Rand Company. No. 146,787; Sept. 27; v. 290; p. 790.
Mowers, Lawn-. Dille & McGuire Mfg. Co. No. 144,514; Sept. 27; v. 290; p. 786.
Needles, toilet-pins, hodkins, &c. William Hall & Co. No. 136,704; Sept. 27; v. 290; p. 781.
Newspaper-column. F. P. Adams. No. 150,796; Sept. 27; v. 290; p. 800.
Oil, Motor-lubricating. Rusk Oil Co. of Philadelphia, Pa. No. 140,544; Sept. 27; v. 290; p. 783.
Overalls, overall-coats and pants, Men's and boys'. Fort Smith Garment Co. No. 143,366; Sept. 27; v. 290; p. 785.
Overcoats, suits, vests, trousers, &c. Baren, Lehrman & Berler. No. 146,515; Sept. 27; v. 290; p. 790.
Paints. Klein Manufacturing Company. No. 128,212; Sept. 27; v. 290; p. 780.
Paints, automobile paint enamels, ground color, &c. Marietta Paint & Color Co. No. 149,013; Sept. 27; v. 290; p. 797.
Pamphlets, circulars, and printed books. National Safety Council. No. 150,552; Sept. 27; v. 290; p. 800.
Paper bags. Wortendyke Manufacturing Co. No. 149,304; Sept. 27; v. 290; p. 798.
Piano and furniture, Cleaner and polisher for. W. J. Merchant. No. 149,140; Sept. 29; v. 290; p. 797.
Potatoes, onions, apples, cabbages, &c., in their natural state. A. Rosenblum. No. 143,104; Sept. 27; v. 290; p. 784.
Powder-puffs. F. Uhry. No. 133,291; Sept. 27; v. 290; p. 780.
Powder, rouge, toilet waters, skin creams and lotions, Face-. Mrs. F. Thurman. No. 147,538; Sept. 27; v. 290; p. 793.
Powder, Talcum. Samstag & Hilder Bros. No. 149,151; Sept. 27; v. 290; p. 798.
Powders, cold, massage, and vanishing creams, perfumes, Face-. Far East Products Co. No. 145,888; Sept. 27; v. 290; p. 789.
Preparation for alleviation of rheumatism, Liquid. T. Long. No. 144,865; Sept. 27; v. 290; p. 786.
Publications issued monthly, Printed. Engineering Magazine Company. No. 149,699; Sept. 27; v. 290; p. 798.
Publications, Monthly. Readers' Publishing Corporation. No. 151,021; Sept. 27; v. 290; p. 801.
Pumps and compressors. Boyle-Dayton Co. No. 148,121; Sept. 27; v. 290; p. 795.
Razors. Edlis Barbers' Supply Co. No. 145,618; Sept. 27; v. 290; p. 788.
Remedy, Dandruff. H. T. Dandruff Remedy Company. No. 147,807; Sept. 27; v. 290; p. 793.
Rubber belts for personal wear. Miller Rubber Company. No. 146,454; Sept. 27; v. 290; p. 789.
Rubber heels and soles. Federal Rubber Company. No. 146,885; Sept. 27; v. 290; p. 791.
Rubber heels and soles. Federal Rubber Company. No. 146,892; Sept. 27; v. 290; p. 791.
Rubber heels and soles. Federal Rubber Company. No. 146,899; Sept. 27; v. 290; p. 791.
Rugs and carpets, Woven. Olson Rug Company. No. 144,833; Sept. 27; v. 290; p. 786.
Safes and office-safes. Fire-Proof Furniture and Construction Company. No. 93,491; Sept. 27; v. 290; p. 779.
Satin cloth in piece goods. Judkins & McCormick Company. No. 150,619; Sept. 27; v. 290; p. 800.
Scarfs for personal wear. M. S. Carson. No. 148,871; Sept. 27; v. 290; p. 797.
Sewing-machines. Goldberg Padding Machine Company. No. 134,308; Sept. 27; v. 290; p. 781.
Sharpening and stropping machine, Blade. J. R. Anderson. No. 148,828; Sept. 27; v. 290; p. 796.
Shirts, men's and young men's underwear, &c. A. L. Myerson. No. 138,583; Sept. 27; v. 290; p. 782.
Shirts, night-robes, pajamas. Wachusett Shirt Co. No. 130,632; Sept. 27; v. 290; p. 780.
Shirts, overalls, jumpers, jackets, coats, &c. Ely & Walker Dry Goods Company. No. 143,551; Sept. 27; v. 290; p. 785.
Shoes, Children's. Doyle Juvenile Shoe Co. No. 146,255; Sept. 27; v. 290; p. 789.
Shoes, Children's leather. Associated Merchandising Corporation. No. 139,928; Sept. 27; v. 290; p. 783.
Shoes, Children's leather. Imperial Children's Shoe Corporation. No. 145,833; Sept. 27; v. 290; p. 788.
Shoes, Leather. G. Vanderporten. No. 146,405; Sept. 27; v. 290; p. 789.
Shoes, Wear-plates for. Empire Stamping Tool & Mfg. Co. No. 146,629; Sept. 27; v. 290; p. 790.
Silk, woolen, cotton, &c., piece goods. M. Strauss. No. 149,983; Sept. 27; v. 290; p. 799.
Slippers and shoes. A. Phillips & Co. No. 146,388; Sept. 27; v. 290; p. 789.
Snap-fasteners. William Prym Company, Limited. No. 148,616; Sept. 27; v. 290; p. 796.
Soap pellets. Colgate & Co. No. 149,847; Sept. 27; v. 290; p. 799.
Soaps. Naamlooze Vennootschap Oliefabrieken Insulinde. No. 135,896; Sept. 27; v. 290; p. 781.
Soaps, soap powder, dish-washing compound, &c. J. R. Mitchell. No. 148,394; Sept. 27; v. 290; p. 796.
Spark-plug, Hand-tool for cleaning. W. S. Boadman. No. 145,606; Sept. 27; v. 290; p. 788.
Springs and screw-machine products, &c., Coil and flat. Humason Manufacturing Company. No. 148,331; Sept. 27; v. 290; p. 795.
Stamps, Merchant's trade-discount. L. W. Peirce. No. 150,929; Sept. 27; v. 290; p. 801.
Steel. Vulcan Crucible Steel Co. No. 149,786; Sept. 27; v. 290; p. 798.
Steel bars, plates, shapes, castings, forgings. Electric Steel & Forge Company. No. 148,725; Sept. 27; v. 290; p. 796.
Steel sheets having a copper content, Rolled. Superior Sheet Steel Company. No. 148,038; Sept. 27; v. 290; p. 794.
Stills, Gasolene and oil. Bousman Manufacturing Company. No. 147,333; Sept. 27; v. 290; p. 792.
Suits and overcoats, Men's and young men's. Epstein-Chas. Douglis Co. No. 142,753; Sept. 27; v. 290; p. 784.
Suits, overcoats, ulsters, &c. A. C. Gaunt. No. 137,809; Sept. 27; v. 290; p. 781.
Sweet spirit nitor, sweet oil, spirit camphor, &c. K. Kovacs. No. 147,926; Sept. 27; v. 290; p. 794.
Tam-o'-shanter hats and bonnets, Linings for. Henry Wallner & Son. No. 145,863; Sept. 27; v. 290; p. 788.
Tillers. Scientific Farming Machinery Company. No. 145,595; Sept. 27; v. 290; p. 787.
Tobacco. Scott Tobacco Company. No. 133,939; Sept. 27; v. 290; p. 781.
Toe-protectors. Jiffy-Andy Toe Protector Co. No. 148,443; Sept. 27; v. 290; p. 796.
Toys. H. Fishelov & Company. No. 138,437; Sept. 27; v. 290; p. 782.
Typewriting, Instruction books and charts for teaching. Corona Typewriter Company. No. 147,406; Sept. 27; v. 290; p. 792.
Underwear, Textile-fabric. H. H. Hess. No. 146,706; Sept. 27; v. 290; p. 790.
Valves, Combined pressure and vacuum. Tiros Valve Syndicate. No. 148,406; Sept. 27; v. 290; p. 796.
Vests, combinations, &c., Men's, boys', ladies', and children's. William Hollins & Company. No. 146,507; Sept. 27; v. 290; p. 790.
Washers, Lock-. Bull Dog Lock Washer Co. No. 138,314; Sept. 27; v. 290; p. 782.
Water or other liquids, Apparatus for treating. Anti-Corrosion Engineering Co. No. 145,052; Sept. 27; v. 290; p. 787.
Well drilling and fishing tools, Oil-. Acme Fishing Tool Company. No. 147,329; Sept. 27; v. 290; p. 792.
Wheat-flour. E. C. Hawkins. No. 138,560; Sept. 27; v. 290; p. 782.
Wool and serge goods in the piece. Julius D. Booth & Son. No. 149,734; Sept. 27; v. 290; p. 798.

CLASSIFICATION OF PATENTS

ISSUED SEPTEMBER 27, 1921.

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MICRO PHOTO I.
CLEVELAND, OHIO